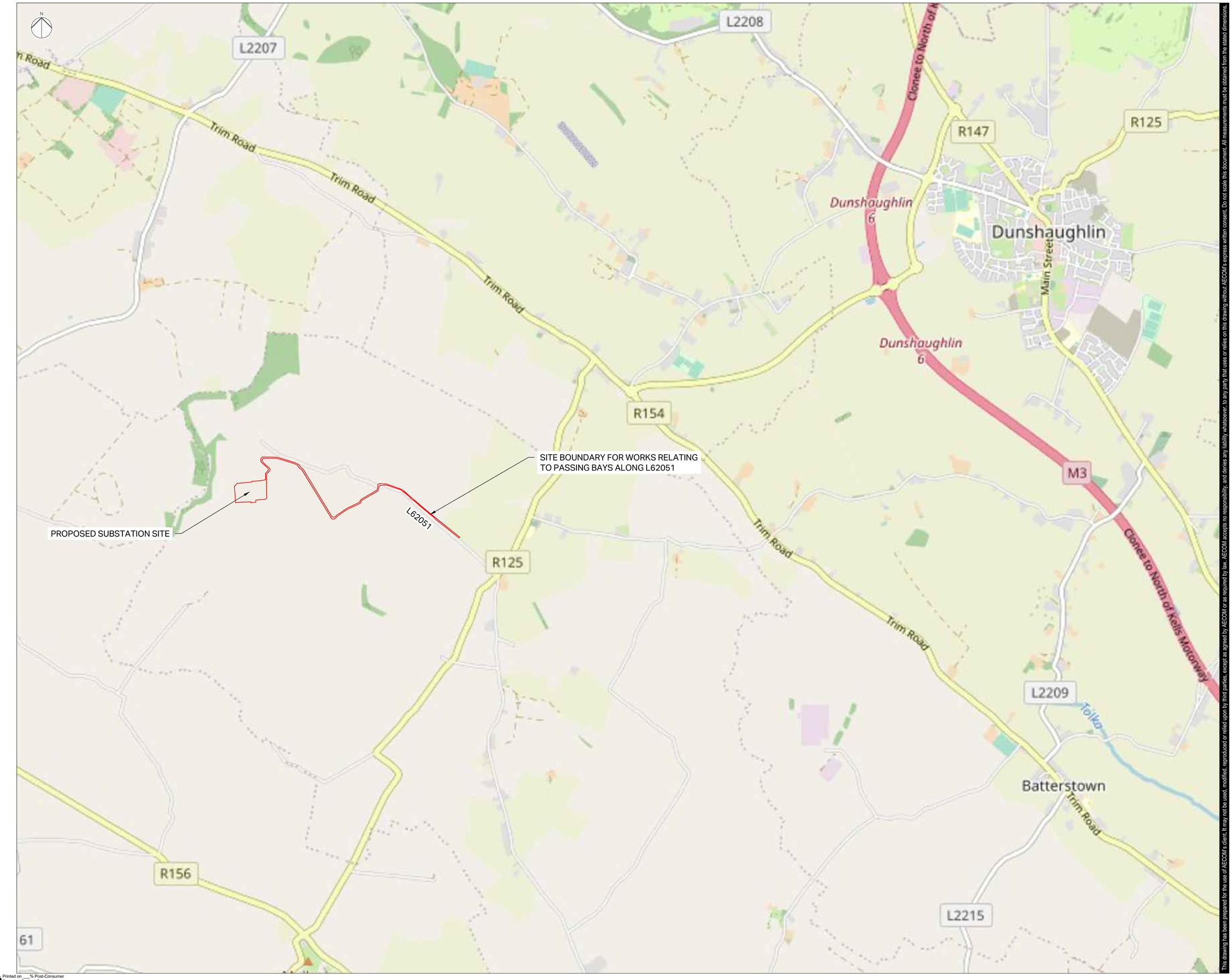


AECOM

PROJECT

ENERGIA SOLAR

CLIENT

ENERGIA

energia
Switched on

CONSULTANT

AECOM
Adelphi Plaza
Georges Street Upper
Dun Laoghaire
County Dublin
Ireland
T +353 (0)1 2383100
www.aecom.com

LEGEND

SITE BOUNDARY

NOTES

1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DOCUMENTATION.
2. DO NOT SCALE FROM THIS DRAWING; USE ONLY PRINTED DIMENSIONS.
3. ALL DIMENSIONS IN MILLIMETERS. ALL CHAINAGES, LEVELS AND CO-ORDINATES ARE IN METERS UNLESS DEFINED OTHERWISE
4. DRAWINGS ARE INDICATIVE ONLY AND SHOULD NOT BE USED FOR DETAILED DESIGN.
5. CIVIL AND DRAINAGE LEVELS AND ASSOCIATED WORKS TO BE DEVELOPED AT DETAIL DESIGN AND APPROVED BY THE CLIENT'S ENGINEER REPRESENTATIVE IN ADVANCE OF AN CONSTRUCTION WORKS.
6. ALL PUBLIC ROAD WORKS TO BE APPROVED BY LOCAL AUTHORITY IN ADVANCE OF ANY CONSTRUCTION WORKS.
7. ALL WORKS TO COMPLY WITH APPROVED CEMP.
8. ALL PERMITS AND LICENCES REQUIRED FOR THE WORKS TO BE OBTAINED AND APPROVED BY RELEVANT STATUTORY AUTHORITY IN ADVANCE OF RELEVANT WORKS.
9. ALL DRAINAGE PROPOSED BASED ON RELEVANT HYDRAULIC DESIGN CALCULATIONS AND SUBJECT TO DETAIL DESIGN TO BE UNDERTAKEN IN ADVANCE OF ANY CONSTRUCTION WORKS.

ISSUE/REVISION

I/R	DATE	DESCRIPTION
R2	17/05/2023	SITE BOUNDARY UPDATE
R1	15/05/2023	BACKGROUND MAP CHANGED
R0	17/04/2023	FIRST ISSUE

STATUS

PLANNING

PROJECT NUMBER	SCALE
60657534	1:15,000 @ A1

SHEET TITLE

CULMULLIN 220kV SUBSTATION
PROPOSED PASSING BAYS ON L62051
SITE LOCATION PLAN

SHEET NUMBER	REV
60657534-ACM-DWG-001	R2

Last saved by: CAMERON.GILLANDERS(2023-05-17) Last Plotted: 2023-05-18
Filename: \\NA.AECOMNET.COM\LFS\EMEA\DUBLIN-IE\DBL2\LEGACY\IE\DBL2FP001\DATA\DCS\PROJECTS\BP\60657534_SUMMERHILLFIELDSTOWNSID\900_CAD_GIS\910_CAD\CIVILS - LAY -BY MINOR ROAD\CAD -CIVIL\60657534-ACM-DWG-001.DWG ; Designer : CG Checked : PA Approved : PA

SCHEME PLAN
CH 0 - CH 625 (STUDY AREA)
SCALE 1:1000

SCHEME PLAN
CH 625 - CH 883 (STUDY AREA)
& CH 883 - CH 1313 (OUTSIDE STUDY AREA)
SCALE 1:1000

AECOM

PROJECT

ENERGIA SOLAR

CLIENT

ENERGIA

CONSULTANT

AECOM
Adelphi Plaza
Georges Street Upper
Dun Laoghaire
County Dublin
Ireland
T +353 (0)1 2383100
www.aecom.com

LEGEND

- SITE BOUNDARY
- EXISTING ROAD
- NEW PASSING BAY CONSTRUCTION
- EXISTING HARDSTAND AREA
- GRASS VERGE

NOTES

1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DOCUMENTATION.
2. DO NOT SCALE FROM THIS DRAWING; USE ONLY PRINTED DIMENSIONS.
3. ALL DIMENSIONS IN MILLIMETERS. ALL CHAINAGES, LEVELS AND CO-ORDINATES ARE IN METERS UNLESS DEFINED OTHERWISE
4. DRAWINGS ARE INDICATIVE ONLY AND SHOULD NOT BE USED FOR DETAILED DESIGN.
5. CIVIL AND DRAINAGE LEVELS AND ASSOCIATED WORKS TO BE DEVELOPED AT DETAIL DESIGN AND APPROVED BY THE CLIENT'S ENGINEER REPRESENTATIVE IN ADVANCE OF AN CONSTRUCTION WORKS.
6. ALL PUBLIC ROAD WORKS TO BE APPROVED BY LOCAL AUTHORITY IN ADVANCE OF ANY CONSTRUCTION WORKS.
7. ALL WORKS TO COMPLY WITH APPROVED CEMP.
8. ALL PERMITS AND LICENCES REQUIRED FOR THE WORKS TO BE OBTAINED AND APPROVED BY RELEVANT STATUTORY AUTHORITY IN ADVANCE OF RELEVANT WORKS.
9. ALL DRAINAGE PROPOSED BASED ON RELEVANT HYDRAULIC DESIGN CALCULATIONS AND SUBJECT TO DETAIL DESIGN TO BE UNDERTAKEN IN ADVANCE OF ANY CONSTRUCTION WORKS.
10. REFER TO 60657534-ACM-DWG-003 FOR THE PROPOSED DRAINAGE ARRANGEMENT & 60657534-ACM-DWG-010 FOR THE STANDARD CONSTRUCTION DETAILS.
11. ALL GRASS VERGES FORMED TO FINISH MIN. 150mm ABOVE ROAD LEVEL.

ISSUE/REVISION

I/R	DATE	DESCRIPTION
R7	26/05/2023	BOUNDARY UPDATE
R6	19/05/2023	ANNOTATION UPDATE
R5	17/05/2023	ANNOTATION UPDATE
R4	15/05/2023	DETAIL REFERENCES ADDED
R3	17/04/2023	INTEGRATED DRAINAGE INFO.
R2	13/03/2023	DRAWING NUMBER CHANGED
R1	06/02/2023	DESIGN MATRIX REMOVED
R0	01/02/2023	FIRST ISSUE

STATUS

PLANNING

PROJECT NUMBER	SCALE
60657534	1:1000 @ A1

SHEET TITLE

CULMULLIN 220kV SUBSTATION
PROPOSED PASSING BAYS ON L62051
OVERALL CONCEPT PLAN

SHEET NUMBER	REV
60657534-ACM-DWG-002	R7

Last saved by: BERNICE.CAHILL (2023-05-25) Last Plotted: 2023-05-26
Filename: L:\DUBLIN-IEDBL2\LEGACY\IEDBL2FP001\DATA\DCS\PROJECTS\BP\60657534_SUMMERHILLFIELDSTOWNSID\900_CAD_GIS\910_CAD\CIVIL\S - LAY - BY MINOR ROAD\CAD -CIVIL\60657534-ACM-DWG-001-010.DWG
Project Management Initials : Designer : CG Checked : PA Approved : PA

SCHEME PLAN
CH 0 - CH 625 (STUDY AREA)
SCALE 1:1000

SCHEME PLAN
CH 625 - CH 883 (STUDY AREA)
& CH 883 - CH 1313 (OUTSIDE STUDY AREA)
SCALE 1:1000

PROJECT

ENERGIA SOLAR

CLIENT

ENERGIA

CONSULTANT

AECOM
Adelphi Plaza
Georges Street Upper
Dun Laoghaire
County Dublin
Ireland
T +353 (0)1 2383100
www.aecom.com

NOTES

1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DOCUMENTATION.
2. DO NOT SCALE FROM THIS DRAWING; USE ONLY PRINTED DIMENSIONS.
3. ALL DIMENSIONS IN MILLIMETERS. ALL CHAINAGES, LEVELS AND CO-ORDINATES ARE IN METERS UNLESS DEFINED OTHERWISE
4. DRAWINGS ARE INDICATIVE ONLY AND SHOULD NOT BE USED FOR DETAILED DESIGN.
5. CIVIL AND DRAINAGE LEVELS AND ASSOCIATED WORKS TO BE DEVELOPED AT DETAIL DESIGN AND APPROVED BY THE CLIENT'S ENGINEER REPRESENTATIVE IN ADVANCE OF AN CONSTRUCTION WORKS.
6. ALL PUBLIC ROAD WORKS TO BE APPROVED BY LOCAL AUTHORITY IN ADVANCE OF ANY CONSTRUCTION WORKS.
7. ALL WORKS TO COMPLY WITH APPROVED CEMP.
8. ALL PERMITS AND LICENCES REQUIRED FOR THE WORKS TO BE OBTAINED AND APPROVED BY RELEVANT STATUTORY AUTHORITY IN ADVANCE OF RELEVANT WORKS.
9. ALL DRAINAGE PROPOSED BASED ON RELEVANT HYDRAULIC DESIGN CALCULATIONS AND SUBJECT TO DETAIL DESIGN TO BE UNDERTAKEN IN ADVANCE OF ANY CONSTRUCTION WORKS.
10. REFER TO 60657534-ACM-DWG-002 FOR THE OVERALL CONCEPT PLAN & 60657534-ACM-DWG-010 FOR THE STANDARD CONSTRUCTION DETAILS.
11. WEIRS (350mm H x 300mm W) FORMED WITH CL 804 COMPACTED AND CONSOLIDATED STONE.

ISSUE/REVISION

I/R	DATE	DESCRIPTION
R6	26/05/2023	BOUNDARY UPDATE
R5	22/05/2023	IL & CL UPDATE
R4	19/05/2023	ANNOTATION UPDATE
R3	17/05/2023	ANNOTATION UPDATE
R2	15/05/2023	DETAIL REFERENCES ADDED
R1	17/04/2023	PROPOSED ARRANGEMENT ADDED
R0	13/03/2023	FIRST ISSUE

STATUS

PLANNING

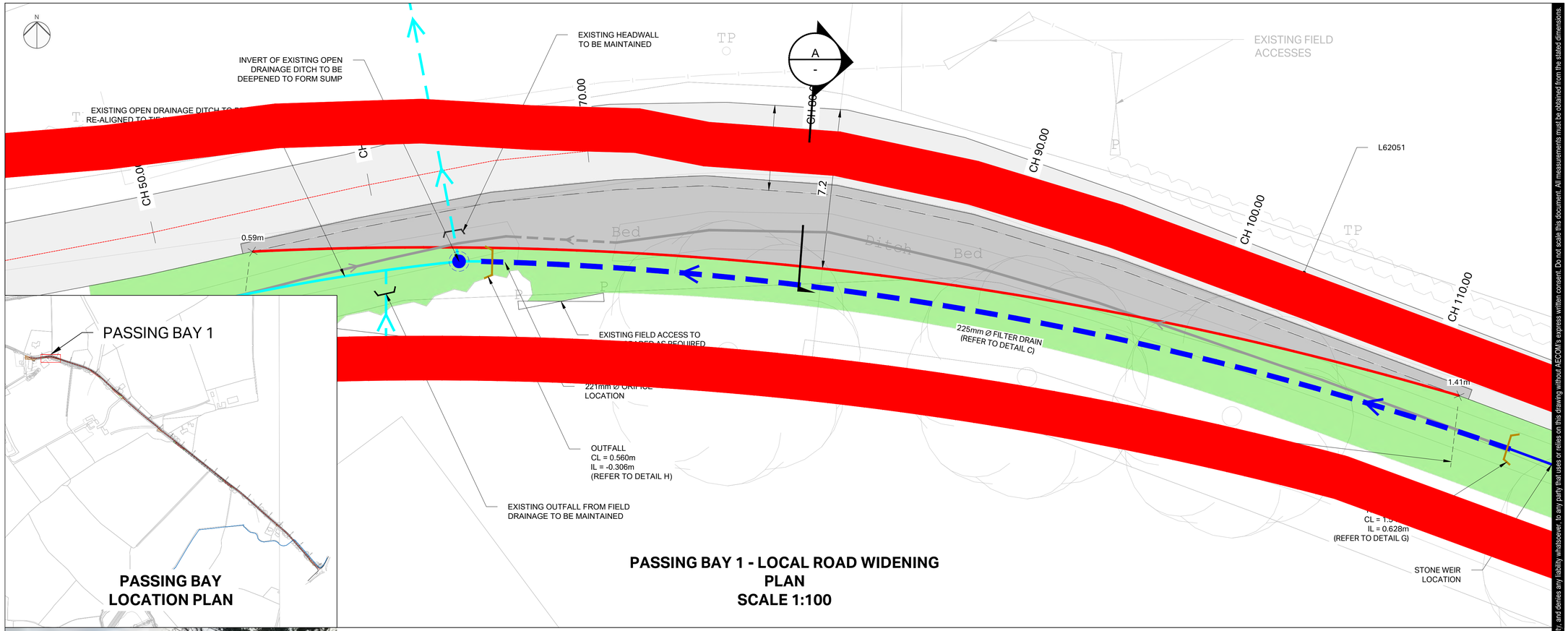
PROJECT NUMBER	SCALE
60657534	1:1000 @ A1

SHEET TITLE

CULMULLIN 220kV SUBSTATION
PROPOSED DRAINAGE ARRANGEMENT
ALONG L62051

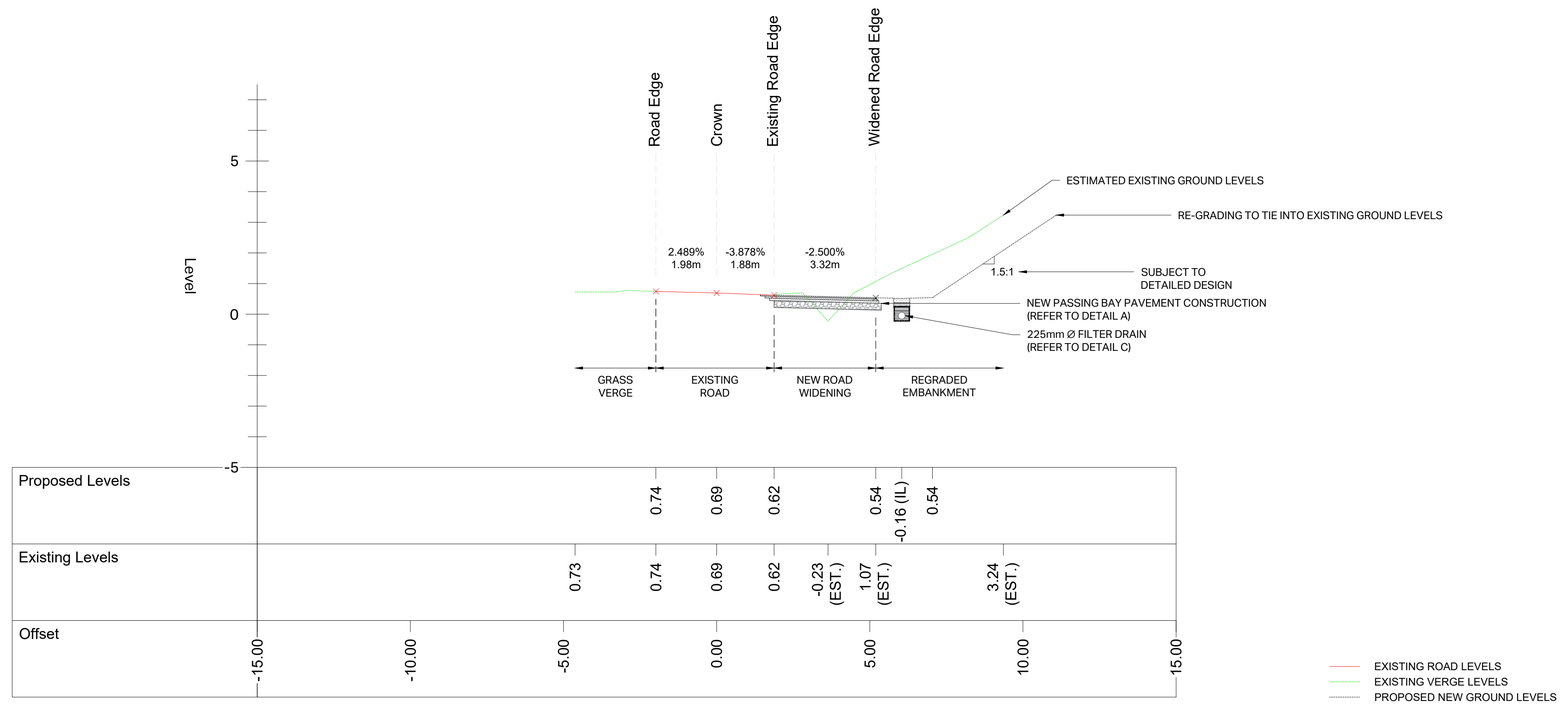
SHEET NUMBER	REV
60657534-ACM-DWG-003	R6

Last saved by: BERNICE.CAHILL (2023-05-25) Last Plotted: 2023-05-26
Filename: L:\DUBLIN-IE\DBL2\LEGACY\IE\DBL2FP001\DATA\DCS\PROJECTS\BP\60657534_SUMMERHILLFIELDSTOWNSID\900_CAD_GIS\910_CAD\CIVILS - LAY -BY MINOR ROAD\CAD -CIVIL\60657534-ACM-DWG-001-010.DWG
Project Management Initials : Designer : CG Checked : PA Approved : PA



PASSING BAY 1 - LOCAL ROAD WIDENING
PLAN
SCALE 1:100

DITCH LEVELS TO BE DETERMINED DURING DETAILED DESIGN



PASSING BAY 1 - TYPICAL PROFILE
CROSS SECTION A-A THROUGH CH 80
SCALE 1:100

AECOM

PROJECT

ENERGIA SOLAR

CLIENT

ENERGIA

energia
Switched on

CONSULTANT

AECOM
Adelphi Plaza
Georges Street Upper
Dun Laoghaire
County Dublin
Ireland
T +353 (0)1 2383100
www.aecom.com

LEGEND

- SITE BOUNDARY
- EXISTING ROAD
- NEW PASSING BAY CONSTRUCTION
- GRASS VERGE
- EXISTING OPEN V DITCH
- EXISTING STONE HEAD CULVERT
- EXISTING CULVERT OUTFALL
- EXISTING DRAINAGE ARRANGEMENT TO BE TERMINATED
- EXISTING OPEN V DITCH TO HAVE WEIR DOWNSTREAM
- PROPOSED 225mm Ø FILTER DRAIN
- PROPOSED 225mm Ø CARRIER DRAIN
- PROPOSED SUMP
- PROPOSED CONCRETE BAG HEADWALL / OUTFALL

NOTES

1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DOCUMENTATION.
2. DO NOT SCALE FROM THIS DRAWING; USE ONLY PRINTED DIMENSIONS.
3. ALL DIMENSIONS IN MILLIMETERS. ALL CHAINAGES, LEVELS AND CO-ORDINATES ARE IN METERS UNLESS DEFINED OTHERWISE
4. DRAWINGS ARE INDICATIVE ONLY AND SHOULD NOT BE USED FOR DETAILED DESIGN.
5. CIVIL AND DRAINAGE LEVELS AND ASSOCIATED WORKS TO BE DEVELOPED AT DETAIL DESIGN AND APPROVED BY THE CLIENTS ENGINEER REPRESENTATIVE IN ADVANCE OF AN CONSTRUCTION WORKS.
6. ALL PUBLIC ROAD WORKS TO BE APPROVED BY LOCAL AUTHORITY IN ADVANCE OF ANY CONSTRUCTION WORKS.
7. ALL WORKS TO COMPLY WITH APPROVED CEMP.
8. ALL PERMITS AND LICENCES REQUIRED FOR THE WORKS TO BE OBTAINED AND APPROVED BY RELEVANT STATUTORY AUTHORITY IN ADVANCE OF RELEVANT WORKS.
9. ALL DRAINAGE PROPOSED BASED ON RELEVANT HYDRAULIC DESIGN CALCULATIONS AND SUBJECT TO DETAIL DESIGN TO BE UNDERTAKEN IN ADVANCE OF ANY CONSTRUCTION WORKS.
10. REFER TO 60657534-ACM-DWG-002 FOR THE OVERALL CONCEPT PLAN, 60657534-ACM-DWG-003 FOR THE PROPOSED DRAINAGE ARRANGEMENT & 60657534-ACM-DWG-010 FOR THE STANDARD CONSTRUCTION DETAILS.
11. ALL GRASS VERGES FORMED TO FINISH MIN. 150mm ABOVE ROAD LEVEL.
12. WEIRS (350mm H x 300mm W) FORMED WITH CL 804 COMPACTED AND CONSOLIDATED STONE.

ISSUE/REVISION

I/R	DATE	DESCRIPTION
R8	26/05/2023	BOUNDARY UPDATE
R7	23/05/2023	CROSS SECTION UPDATE
R6	22/05/2023	IL & CL UPDATE
R5	19/05/2023	ANNOTATION UPDATE
R4	17/05/2023	ANNOTATION UPDATE
R3	15/05/2023	DETAIL REFERENCES ADDED
R2	17/04/2023	INTEGRATED DRAINAGE INFO.
R1	13/03/2023	UPDATED TO NEW CONCEPT
R0	20/12/2022	FIRST ISSUE

STATUS

PLANNING

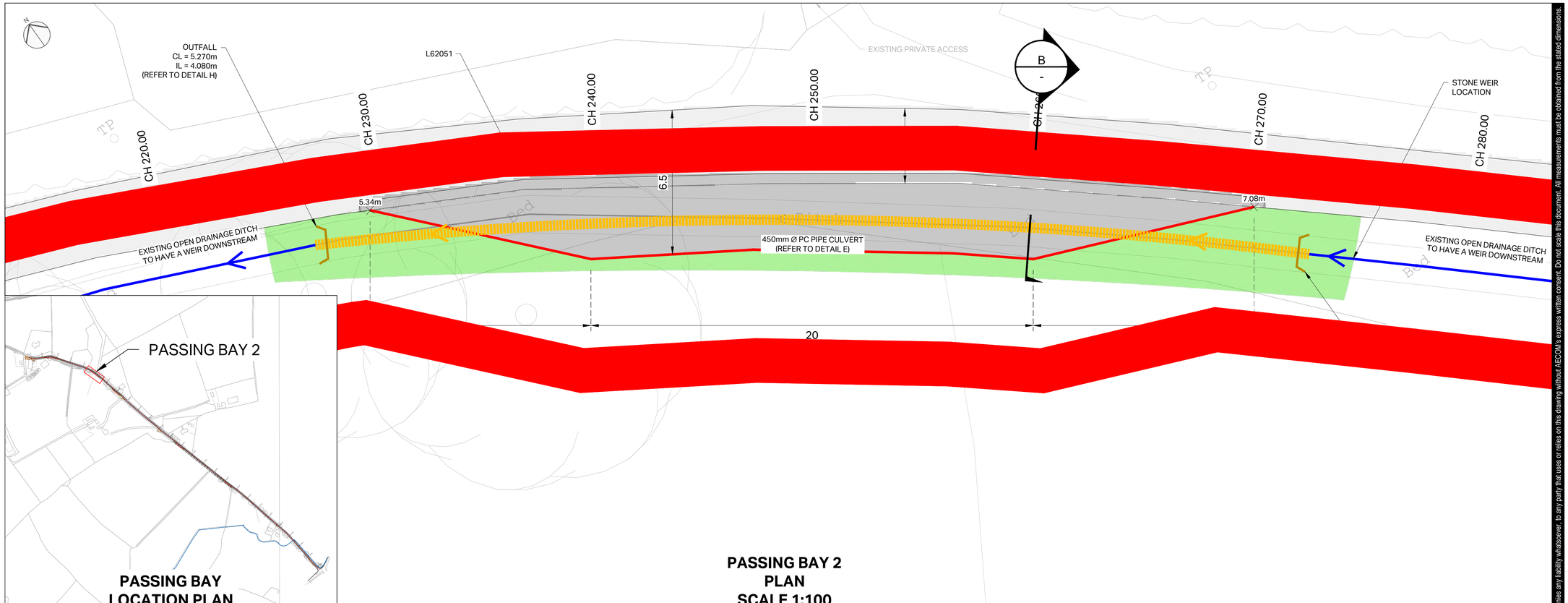
PROJECT NUMBER	SCALE
60657534	AS SHOWN @ A1

SHEET TITLE

CULMULLIN 220kV SUBSTATION
PROPOSED PASSING BAYS (L62051)
PASSING BAY 1 - PLAN & CROSS SECTION

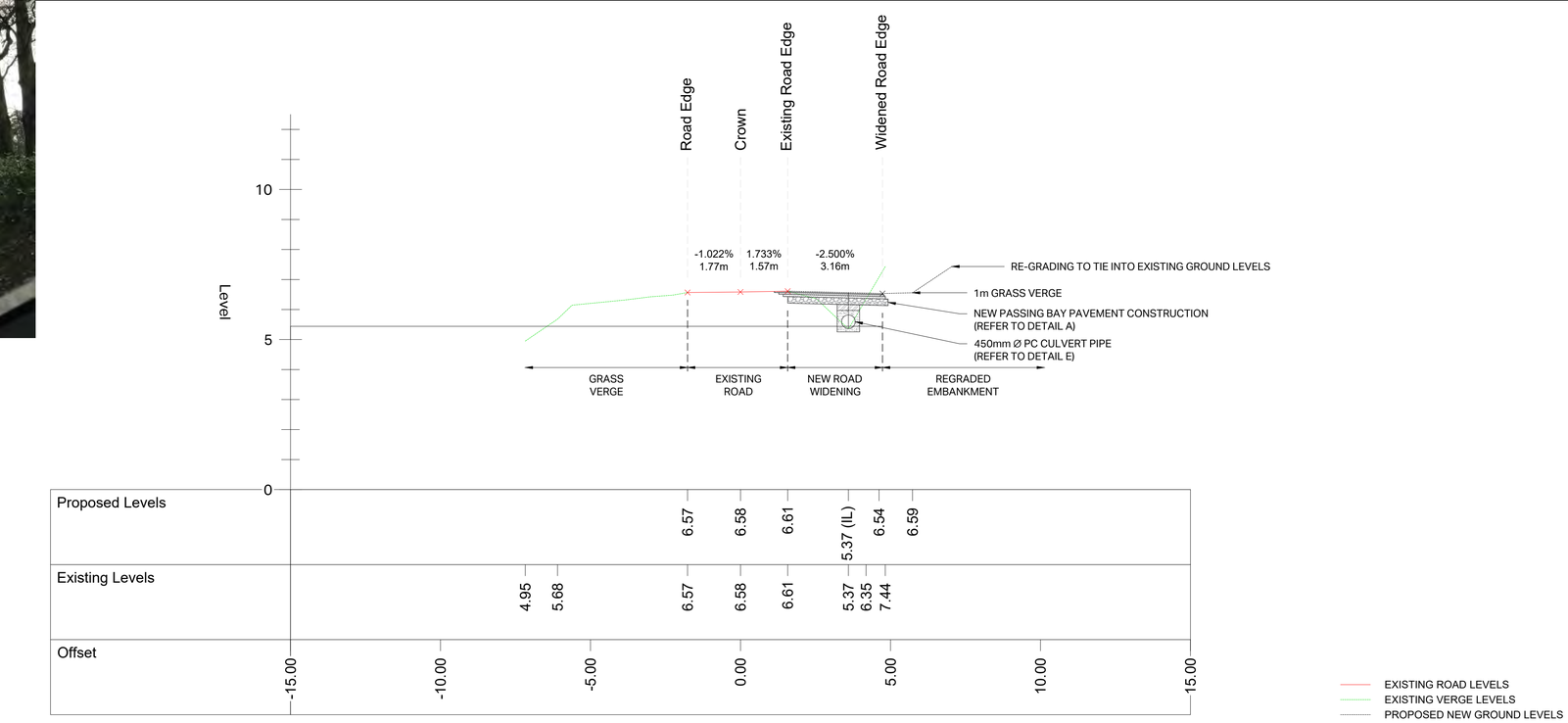
SHEET NUMBER	REV
60657534-ACM-DWG-004	R8

Last saved by: BERNICE.CAHILL (2023-05-25) Last Plotted: 2023-05-26
Filename: L:\DUBLIN-IEDBL2\LEGACY\IEDBL2FP001\DATA\DCS\PROJECTS\BP\60657534_SUMMERHILLFIELDSTOWNSID\900_CAD_GIS\910_CAD\CIVILS - LAY -BY MINOR ROAD\CAD -CIVIL\60657534-ACM-DWG-001-010.DWG Project Management Initials : Designer : CG Checked : PA Approved : PA



PASSING BAY LOCATION PLAN

PASSING BAY 2 PLAN SCALE 1:100



PASSING BAY 2 - TYPICAL PROFILE CROSS SECTION B-B THROUGH CH 260 SCALE 1:100

AECOM

PROJECT

ENERGIA SOLAR

CLIENT

ENERGIA

energia Switched on

CONSULTANT

AECOM
Adelphi Plaza
Georges Street Upper
Dun Laoghaire
County Dublin
Ireland
T +353 (0)1 2383100
www.aecom.com

LEGEND

- SITE BOUNDARY
- EXISTING ROAD
- NEW PASSING BAY CONSTRUCTION
- GRASS VERGE
- EXISTING DRAINAGE ARRANGEMENT TO BE TERMINATED
- EXISTING OPEN V DITCH TO HAVE WEIR DOWNSTREAM
- PROPOSED 450mm Ø PC PIPE CULVERT
- PROPOSED CONCRETE BAG HEADWALL

NOTES

1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DOCUMENTATION.
2. DO NOT SCALE FROM THIS DRAWING; USE ONLY PRINTED DIMENSIONS.
3. ALL DIMENSIONS IN MILLIMETERS. ALL CHAINAGES, LEVELS AND CO-ORDINATES ARE IN METERS UNLESS DEFINED OTHERWISE
4. DRAWINGS ARE INDICATIVE ONLY AND SHOULD NOT BE USED FOR DETAILED DESIGN.
5. CIVIL AND DRAINAGE LEVELS AND ASSOCIATED WORKS TO BE DEVELOPED AT DETAIL DESIGN AND APPROVED BY THE CLIENTS ENGINEER REPRESENTATIVE IN ADVANCE OF AN CONSTRUCTION WORKS.
6. ALL PUBLIC ROAD WORKS TO BE APPROVED BY LOCAL AUTHORITY IN ADVANCE OF ANY CONSTRUCTION WORKS.
7. ALL WORKS TO COMPLY WITH APPROVED CEMP.
8. ALL PERMITS AND LICENCES REQUIRED FOR THE WORKS TO BE OBTAINED AND APPROVED BY RELEVANT STATUTORY AUTHORITY IN ADVANCE OF RELEVANT WORKS.
9. ALL DRAINAGE PROPOSED BASED ON RELEVANT HYDRAULIC DESIGN CALCULATIONS AND SUBJECT TO DETAIL DESIGN TO BE UNDERTAKEN IN ADVANCE OF ANY CONSTRUCTION WORKS.
10. REFER TO 60657534-ACM-DWG-002 FOR THE OVERALL CONCEPT PLAN, 60657534-ACM-DWG-003 FOR THE PROPOSED DRAINAGE ARRANGEMENT & 60657534-ACM-DWG-010 FOR THE STANDARD CONSTRUCTION DETAILS.
11. ALL GRASS VERGES FORMED TO FINISH MIN. 150mm ABOVE ROAD LEVEL.
12. WEIRS (350mm H x 300mm W) FORMED WITH CL 804 COMPACTED AND CONSOLIDATED STONE.

ISSUE/REVISION

I/R	DATE	DESCRIPTION
R6	26/05/2023	BOUNDARY UPDATE
R5	22/05/2023	IL & CL UPDATE
R4	19/05/2023	ANNOTATION UPDATE
R3	17/05/2023	ANNOTATION UPDATE
R2	15/05/2023	DETAIL REFERENCES ADDED
R1	17/04/2023	INTEGRATED DRAINAGE INFO.
R0	13/03/2023	FIRST DRAFT

STATUS

PLANNING

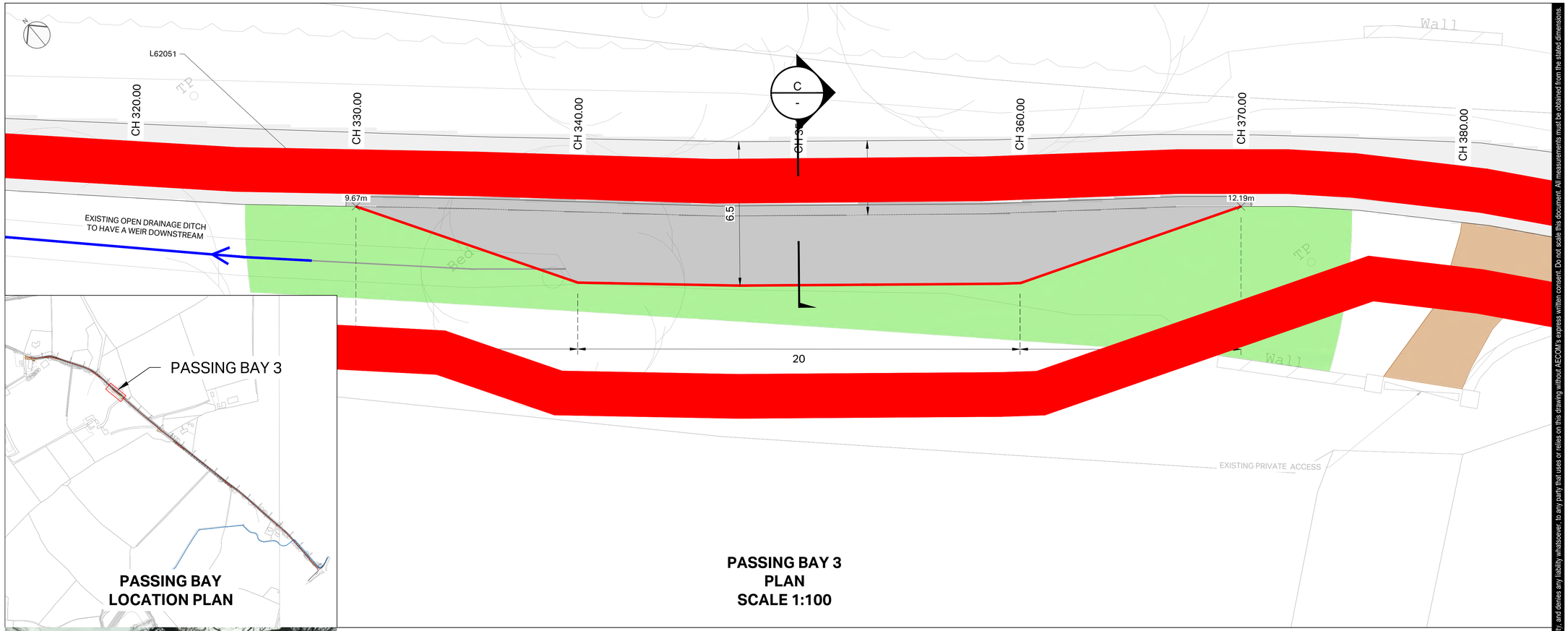
PROJECT NUMBER	SCALE
60657534	AS SHOWN @ A1

SHEET TITLE

CULMULLIN 220 kV SUBSTATION
PROPOSED PASSING BAYS (L62051)
PASSING BAY 2 - PLAN & CROSS SECTION

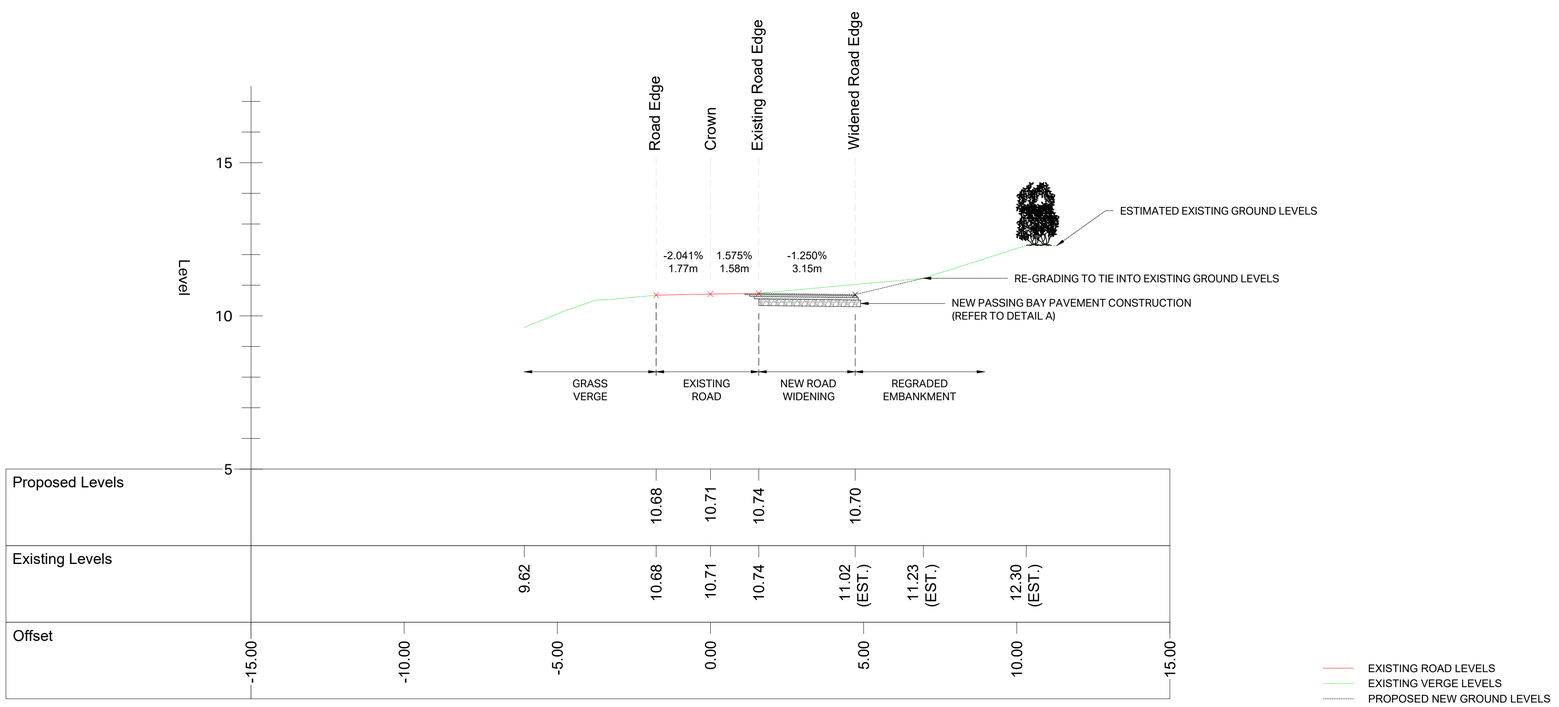
SHEET NUMBER	REV
60657534-ACM-DWG-005	R6

Last saved by: BERNICE.CAHILL(2023-05-25) Last Plotted: 2023-05-26
Filename: L:\DUBLIN-IEDBL2\LEGACY\IEDBL2FP001\DATA\DCS\PROJECTS\BP\60657534_SUMMERHILLFIELDSTOWNSID\900_CAD_GIS\910_CAD\CIVILS - LAY -BY MINOR ROAD\CAD -CIVIL\60657534-ACM-DWG-001-010.DWG
Project Management Initials : Designer : CG Checked : PA Approved : PA



PASSING BAY LOCATION PLAN

PASSING BAY 3 PLAN SCALE 1:100



PASSING BAY 3 - TYPICAL PROFILE CROSS SECTION C-C THROUGH CH 350 SCALE 1:100

AECOM

PROJECT

ENERGIA SOLAR

CLIENT

ENERGIA

CONSULTANT

AECOM
Adelphi Plaza
Georges Street Upper
Dun Laoghaire
County Dublin
Ireland
T +353 (0)1 2383100
www.aecom.com

LEGEND

- SITE BOUNDARY
- EXISTING ROAD
- NEW PASSING BAY CONSTRUCTION
- EXISTING HARDSTAND AREA
- GRASS VERGE
- EXISTING DRAINAGE ARRANGEMENT TO BE TERMINATED
- EXISTING OPEN V DITCH TO HAVE WEIR DOWNSTREAM

NOTES

1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DOCUMENTATION.
2. DO NOT SCALE FROM THIS DRAWING; USE ONLY PRINTED DIMENSIONS.
3. ALL DIMENSIONS IN MILLIMETERS. ALL CHAINAGES, LEVELS AND CO-ORDINATES ARE IN METERS UNLESS DEFINED OTHERWISE
4. DRAWINGS ARE INDICATIVE ONLY AND SHOULD NOT BE USED FOR DETAILED DESIGN.
5. CIVIL AND DRAINAGE LEVELS AND ASSOCIATED WORKS TO BE DEVELOPED AT DETAIL DESIGN AND APPROVED BY THE CLIENTS ENGINEER REPRESENTATIVE IN ADVANCE OF AN CONSTRUCTION WORKS.
6. ALL PUBLIC ROAD WORKS TO BE APPROVED BY LOCAL AUTHORITY IN ADVANCE OF ANY CONSTRUCTION WORKS.
7. ALL WORKS TO COMPLY WITH APPROVED CEMP.
8. ALL PERMITS AND LICENCES REQUIRED FOR THE WORKS TO BE OBTAINED AND APPROVED BY RELEVANT STATUTORY AUTHORITY IN ADVANCE OF RELEVANT WORKS.
9. ALL DRAINAGE PROPOSED BASED ON RELEVANT HYDRAULIC DESIGN CALCULATIONS AND SUBJECT TO DETAIL DESIGN TO BE UNDERTAKEN IN ADVANCE OF ANY CONSTRUCTION WORKS.
10. REFER TO 60657534-ACM-DWG-002 FOR THE OVERALL CONCEPT PLAN, 60657534-ACM-DWG-003 FOR THE PROPOSED DRAINAGE ARRANGEMENT & 60657534-ACM-DWG-010 FOR THE STANDARD CONSTRUCTION DETAILS.
11. ALL GRASS VERGES FORMED TO FINISH MIN. 150mm ABOVE ROAD LEVEL.
12. WEIRS (350mm H x 300mm W) FORMED WITH CL 804 COMPACTED AND CONSOLIDATED STONE.

ISSUE/REVISION

I/R	DATE	DESCRIPTION
R5	26/05/2023	BOUNDARY UPDATE
R4	19/05/2023	ANNOTATION UPDATE
R3	17/05/2023	ANNOTATION UPDATE
R2	15/05/2023	DETAIL REFERENCES ADDED
R1	17/04/2023	INTEGRATED DRAINAGE INFO.
R0	13/03/2023	FIRST DRAFT

STATUS

PLANNING

PROJECT NUMBER 60657534

SCALE AS SHOWN @ A1

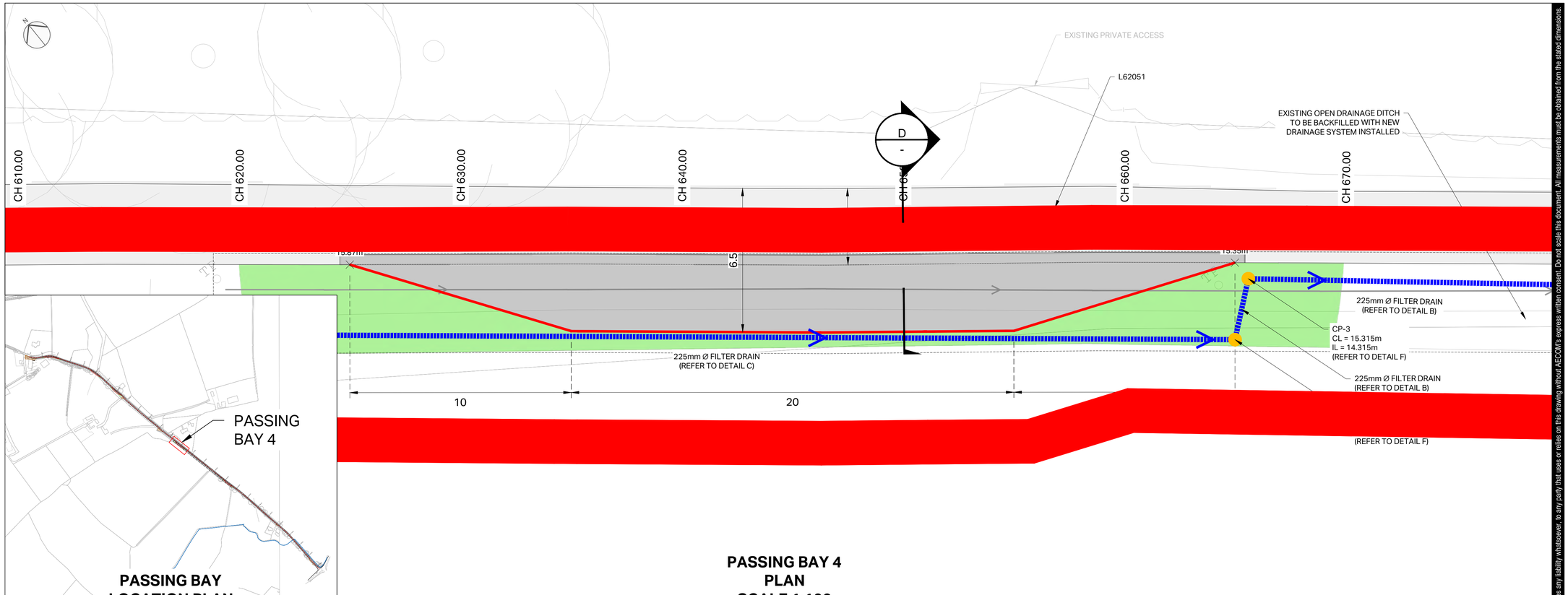
SHEET TITLE

CULMULLIN 220 kV SUBSTATION
PROPOSED PASSING BAYS (L62051)
PASSING BAY 3 - PLAN & CROSS SECTION

SHEET NUMBER 60657534-ACM-DWG-006

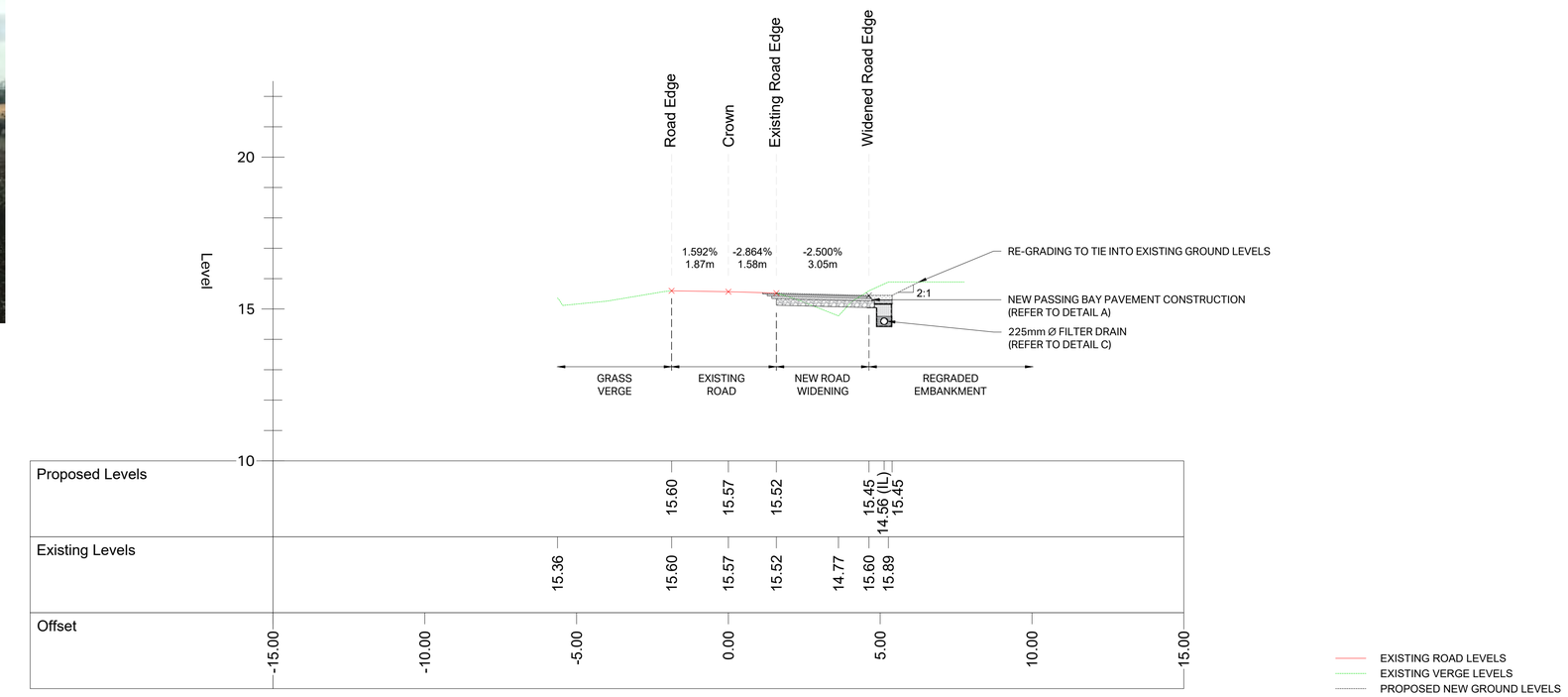
REV R5

Last saved by: BERNICE.CAHILL(2023-05-25) Last Plotted: 2023-05-26
Filename: L:\DUBLIN-IED\BL2\LEGACY\IED\BL2\PP0010\DATA\DCS\PROJECTS\BP\60657534_SUMMERHILLFIELDSTOWNSID\900_CAD_GIS\910_CAD\CIVILS - LAY -BY MINOR ROAD\CAD -CIVIL\60657534-ACM-DWG-001-010.DWG Project Management Initials : Designer : CG Checked : PA Approved : PA



PASSING BAY 4
PLAN
SCALE 1:100

PASSING BAY
LOCATION PLAN



PASSING BAY 4 - TYPICAL PROFILE
CROSS SECTION D-D THROUGH CH 650
SCALE 1:100

AECOM

PROJECT

ENERGIA SOLAR

CLIENT

ENERGIA

energia
Switched on

CONSULTANT

AECOM
Adelphi Plaza
Georges Street Upper
Dun Laoghaire
County Dublin
Ireland
T +353 (0)1 2383100
www.aecom.com

LEGEND

- SITE BOUNDARY
- EXISTING ROAD
- NEW PASSING BAY CONSTRUCTION
- GRASS VERGE
- EXISTING DRAINAGE ARRANGEMENT TO BE TERMINATED
- PROPOSED 225mm Ø FILTER DRAIN
- PROPOSED 600mm Ø CATCHPIT (CP)

NOTES

1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DOCUMENTATION.
2. DO NOT SCALE FROM THIS DRAWING; USE ONLY PRINTED DIMENSIONS.
3. ALL DIMENSIONS IN MILLIMETERS. ALL CHAINAGES, LEVELS AND CO-ORDINATES ARE IN METERS UNLESS DEFINED OTHERWISE
4. DRAWINGS ARE INDICATIVE ONLY AND SHOULD NOT BE USED FOR DETAILED DESIGN.
5. CIVIL AND DRAINAGE LEVELS AND ASSOCIATED WORKS TO BE DEVELOPED AT DETAIL DESIGN AND APPROVED BY THE CLIENTS ENGINEER REPRESENTATIVE IN ADVANCE OF AN CONSTRUCTION WORKS.
6. ALL PUBLIC ROAD WORKS TO BE APPROVED BY LOCAL AUTHORITY IN ADVANCE OF ANY CONSTRUCTION WORKS.
7. ALL WORKS TO COMPLY WITH APPROVED CEMP.
8. ALL PERMITS AND LICENCES REQUIRED FOR THE WORKS TO BE OBTAINED AND APPROVED BY RELEVANT STATUTORY AUTHORITY IN ADVANCE OF RELEVANT WORKS.
9. ALL DRAINAGE PROPOSED BASED ON RELEVANT HYDRAULIC DESIGN CALCULATIONS AND SUBJECT TO DETAIL DESIGN TO BE UNDERTAKEN IN ADVANCE OF ANY CONSTRUCTION WORKS.
10. REFER TO 60657534-ACM-DWG-002 FOR THE OVERALL CONCEPT PLAN, 60657534-ACM-DWG-003 FOR THE PROPOSED DRAINAGE ARRANGEMENT & 60657534-ACM-DWG-010 FOR THE STANDARD CONSTRUCTION DETAILS.
11. ALL GRASS VERGES FORMED TO FINISH MIN. 150mm ABOVE ROAD LEVEL.

ISSUE/REVISION

I/R	DATE	DESCRIPTION
R6	26/05/2023	BOUNDARY UPDATE
R5	22/05/2023	IL & CL UPDATE
R4	19/05/2023	ANNOTATION UPDATE
R3	17/05/2023	ANNOTATION UPDATE
R2	15/05/2023	DETAIL REFERENCES ADDED
R1	17/04/2023	INTEGRATED DRAINAGE INFO.
R0	13/03/2023	FIRST DRAFT

STATUS

PLANNING

PROJECT NUMBER 60657534

SCALE AS SHOWN @ A1

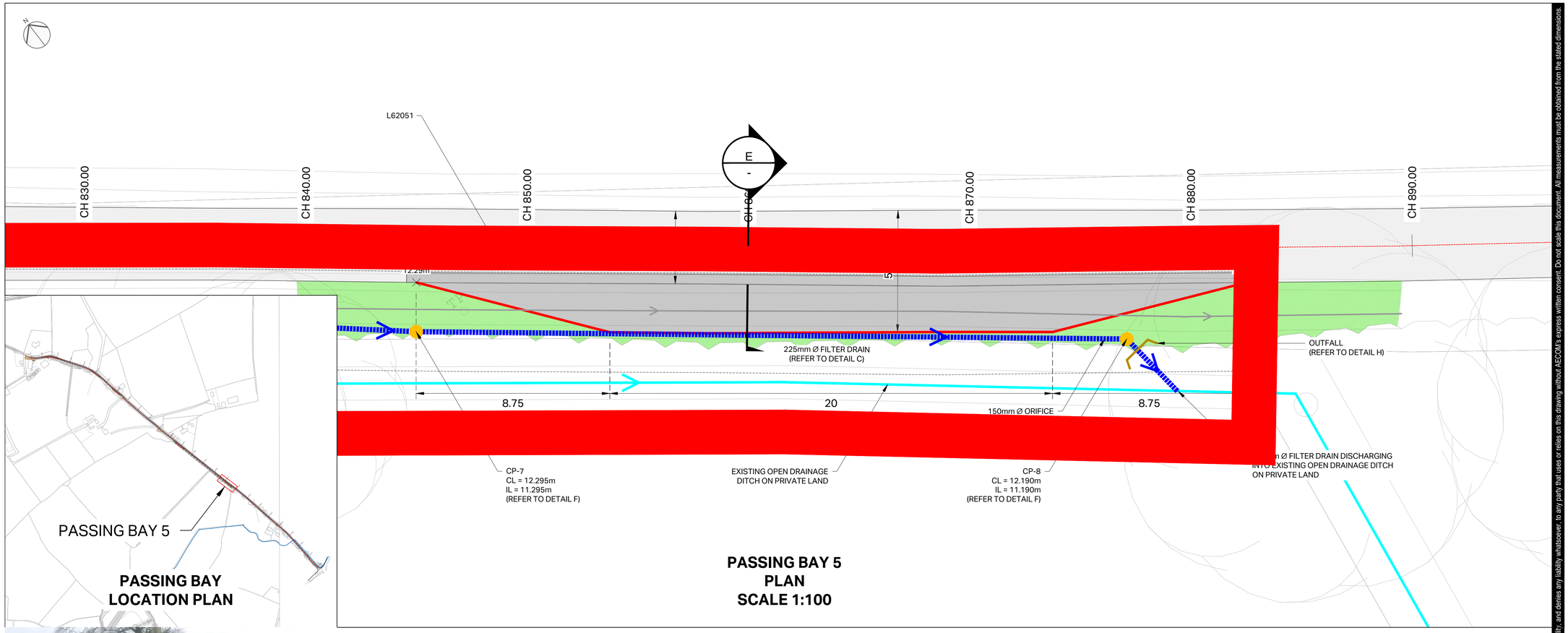
SHEET TITLE

CULMULLIN 220 kV SUBSTATION
PROPOSED PASSING BAYS (L62051)
PASSING BAY 4 - PLAN & CROSS SECTION

SHEET NUMBER 60657534-ACM-DWG-007

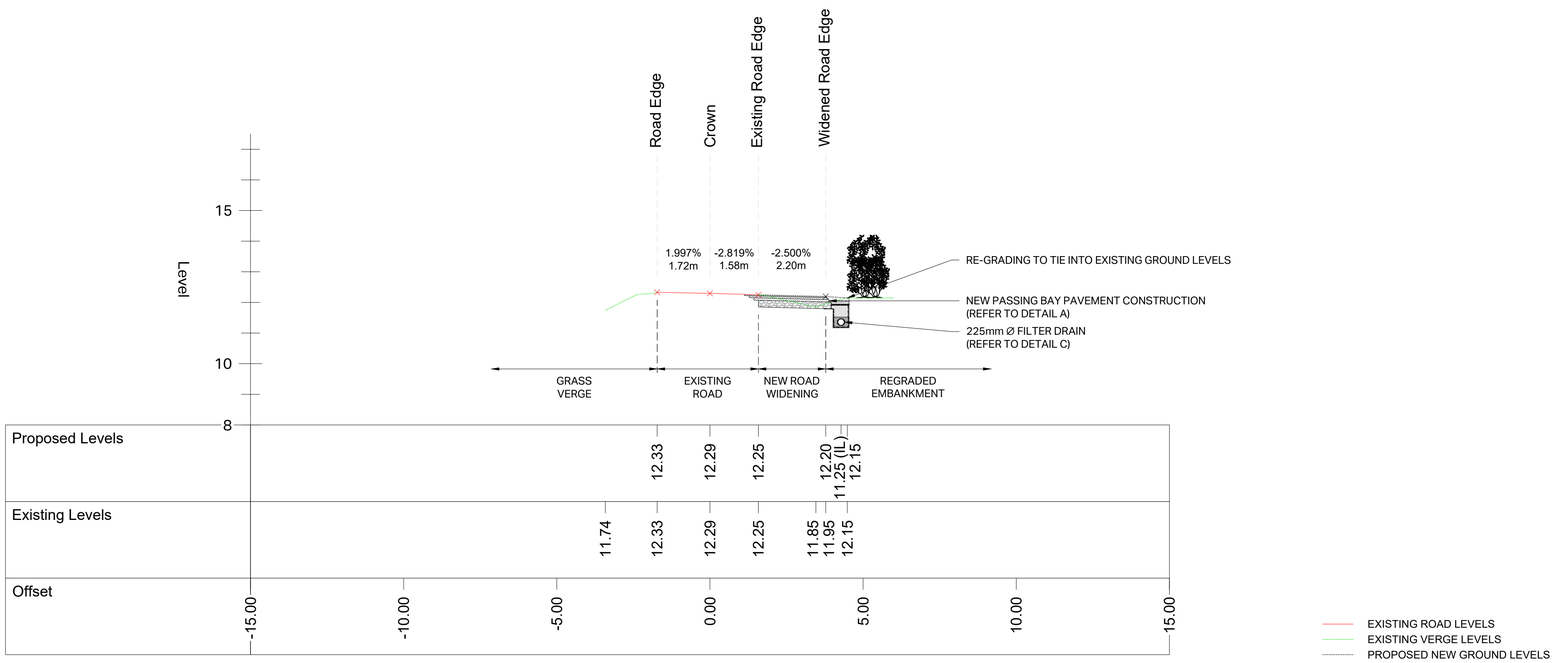
REV R6

Last saved by: BERNICE.CAHILL (2023-05-25) Last Plotted: 2023-05-26
Filename: L:\DUBLIN-IEDBL2\LEGACY\IEDBL2\P0010\DATA\DCS\PROJECTS\BP\60657534_SUMMERHILLFIELDSTOWNSID\900_CAD_GIS\910_CAD\CIVILS - LAY -BY MINOR ROAD\CAD -CIVIL\60657534-ACM-DWG-001-010.DWG Project Management Initials : Designer : CG Checked : PA Approved : PA



PASSING BAY 5
PLAN
SCALE 1:100

PASSING BAY
LOCATION PLAN



PASSING BAY 5 - TYPICAL PROFILE
CROSS SECTION E-E THROUGH CH 860
SCALE 1:100

AECOM

PROJECT

ENERGIA SOLAR

CLIENT

ENERGIA

CONSULTANT

AECOM
Adelphi Plaza
Georges Street Upper
Dun Laoghaire
County Dublin
Ireland
T +353 (0)1 2383100
www.aecom.com

LEGEND

- SITE BOUNDARY
- EXISTING ROAD
- NEW PASSING BAY CONSTRUCTION
- GRASS VERGE
- EXISTING OPEN V DITCH
- EXISTING DRAINAGE ARRANGEMENT TO BE TERMINATED
- PROPOSED 225mm Ø FILTER DRAIN
- PROPOSED 600mm Ø CATCHPIT (CP)
- PROPOSED CONCRETE BAG HEADWALL / OUTFALL

NOTES

1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DOCUMENTATION.
2. DO NOT SCALE FROM THIS DRAWING; USE ONLY PRINTED DIMENSIONS.
3. ALL DIMENSIONS IN MILLIMETERS. ALL CHAINAGES, LEVELS AND CO-ORDINATES ARE IN METERS UNLESS DEFINED OTHERWISE
4. DRAWINGS ARE INDICATIVE ONLY AND SHOULD NOT BE USED FOR DETAILED DESIGN.
5. CIVIL AND DRAINAGE LEVELS AND ASSOCIATED WORKS TO BE DEVELOPED AT DETAIL DESIGN AND APPROVED BY THE CLIENTS ENGINEER REPRESENTATIVE IN ADVANCE OF AN CONSTRUCTION WORKS.
6. ALL PUBLIC ROAD WORKS TO BE APPROVED BY LOCAL AUTHORITY IN ADVANCE OF ANY CONSTRUCTION WORKS.
7. ALL WORKS TO COMPLY WITH APPROVED CEMP.
8. ALL PERMITS AND LICENCES REQUIRED FOR THE WORKS TO BE OBTAINED AND APPROVED BY RELEVANT STATUTORY AUTHORITY IN ADVANCE OF RELEVANT WORKS.
9. ALL DRAINAGE PROPOSED BASED ON RELEVANT HYDRAULIC DESIGN CALCULATIONS AND SUBJECT TO DETAIL DESIGN TO BE UNDERTAKEN IN ADVANCE OF ANY CONSTRUCTION WORKS.
10. REFER TO 60657534-ACM-DWG-002 FOR THE OVERALL CONCEPT PLAN, 60657534-ACM-DWG-003 FOR THE PROPOSED DRAINAGE ARRANGEMENT & 60657534-ACM-DWG-010 FOR THE STANDARD CONSTRUCTION DETAILS.
11. ALL GRASS VERGES FORMED TO FINISH MIN. 150mm ABOVE ROAD LEVEL.

ISSUE/REVISION

I/R	DATE	DESCRIPTION
R6	26/05/2023	BOUNDARY UPDATE
R5	22/05/2023	IL & CL UPDATE
R4	19/05/2023	ANNOTATION UPDATE
R3	17/05/2023	ANNOTATION UPDATE
R2	15/05/2023	DETAIL REFERENCES ADDED
R1	17/04/2023	INTEGRATED DRAINAGE INFO.
R0	13/03/2023	FIRST DRAFT

STATUS

PLANNING

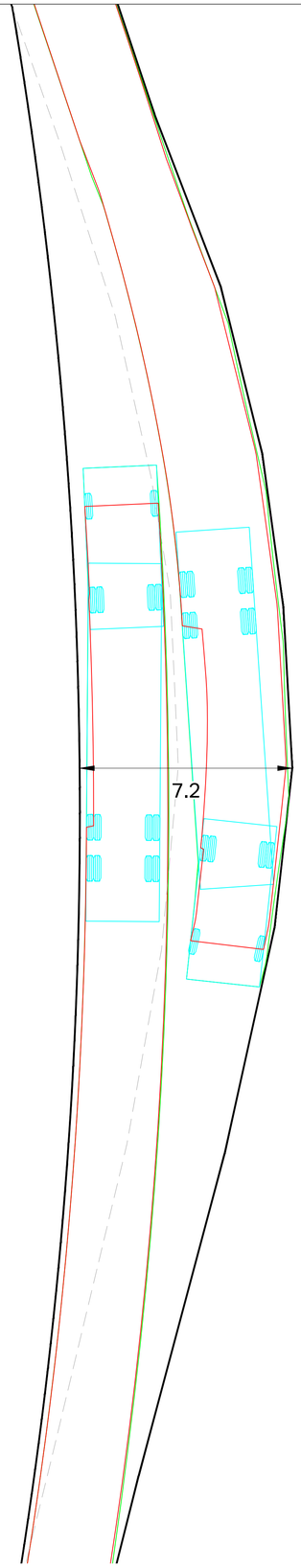
PROJECT NUMBER	SCALE
60657534	AS SHOWN @ A1

SHEET TITLE

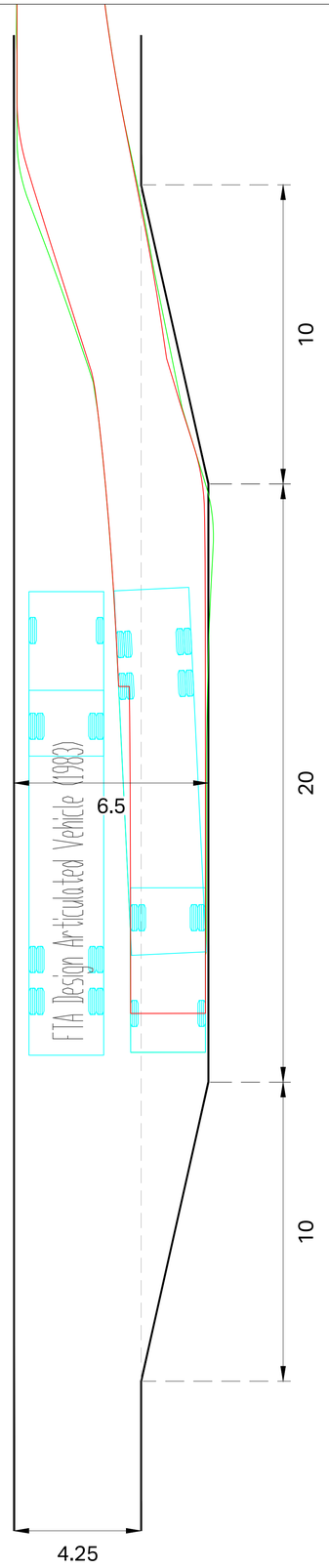
CULMULLIN 220 kV SUBSTATION
PROPOSED PASSING BAYS (L62051)
PASSING BAY 5 - PLAN & CROSS SECTION

SHEET NUMBER	REV
60657534-ACM-DWG-008	R6

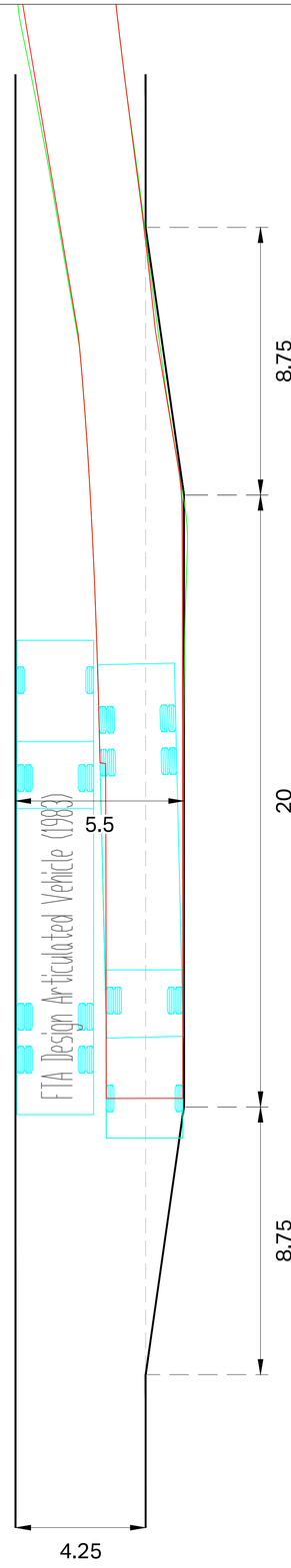
Last saved by: BERNICE.CAHILL(2023-05-25) Last Plotted: 2023-05-26
Filename: L:\DUBLIN-IED\BL2\LEGACY\IED\BL2\PP0010\DATA\DCS\PROJECTS\BP\60657534_SUMMERHILLFIELDSTOWNSID\900_CAD_GIS\910_CAD\CIVILS - LAY -BY MINOR ROAD\CAD -CIVIL\60657534-ACM-DWG-001-010.DWG
Project Management Initials : Designer : CG Checked : PA Approved : PA



PASSING BAY 1 - LOCAL ROAD WIDENING
HGV - HGV PASSING
SCALE 1:100



PASSING BAY 2, 3 & 4
HGV - HGV PASSING
SCALE 1:100



PASSING BAY 5
HGV - HGV PASSING
SCALE 1:100

AECOM

PROJECT

ENERGIA SOLAR

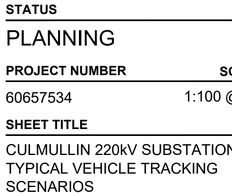
CLIENT

ENERGIA

CONSULTANT

AECOM
Adelphi Plaza
Georges Street Upper
Dun Laoghaire
County Dublin
Ireland
T +353 (0)1 2383100
www.aecom.com

VEHICLE PROFILE



NOTES

1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DOCUMENTATION.
2. DO NOT SCALE FROM THIS DRAWING; USE ONLY PRINTED DIMENSIONS.
3. ALL DIMENSIONS IN MILLIMETERS. ALL CHAINAGES, LEVELS AND CO-ORDINATES ARE IN METERS UNLESS DEFINED OTHERWISE
4. DRAWINGS ARE INDICATIVE ONLY AND SHOULD NOT BE USED FOR DETAILED DESIGN.
5. CIVIL AND DRAINAGE LEVELS AND ASSOCIATED WORKS TO BE DEVELOPED AT DETAIL DESIGN AND APPROVED BY THE CLIENT'S ENGINEER REPRESENTATIVE IN ADVANCE OF AN CONSTRUCTION WORKS.
6. ALL PUBLIC ROAD WORKS TO BE APPROVED BY LOCAL AUTHORITY IN ADVANCE OF ANY CONSTRUCTION WORKS.
7. ALL WORKS TO COMPLY WITH APPROVED CEMP.
8. ALL PERMITS AND LICENCES REQUIRED FOR THE WORKS TO BE OBTAINED AND APPROVED BY RELEVANT STATUTORY AUTHORITY IN ADVANCE OF RELEVANT WORKS.
9. ALL DRAINAGE PROPOSED BASED ON RELEVANT HYDRAULIC DESIGN CALCULATIONS AND SUBJECT TO DETAIL DESIGN TO BE UNDERTAKEN IN ADVANCE OF ANY CONSTRUCTION WORKS.

ISSUE/REVISION

R3	17/05/2023	NOTE UPDATE
R2	15/05/2023	VEHICLE PROFILE ADDED
R1	17/04/2023	PASSING BAY REFERENCES ADDED
R0	20/12/2022	FIRST ISSUE
I/R	DATE	DESCRIPTION

STATUS

PLANNING

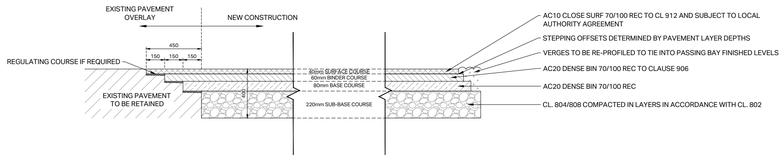
PROJECT NUMBER	SCALE
60657534	1:100 @ A1

SHEET TITLE

CULMULLIN 220kV SUBSTATION
TYPICAL VEHICLE TRACKING
SCENARIOS

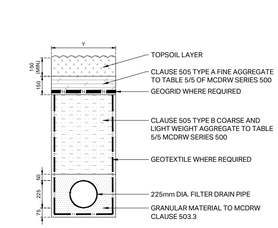
SHEET NUMBER	REV
60657534-ACM-DWG-009	R3

Last saved by: BERNICE.CAHILL (2023-05-25) Last Plotted: 2023-05-26
Filename: L:\DUBLIN-IEDBL2\LEGACY\IEDBL2FP001\DATA\DCS\PROJECTS\BP\60657534_SUMMERHILLFIELDSTOWNSID\900_CAD_GIS\910_CAD\CIVILS - LAY -BY MINOR ROAD\CAD -CIVIL\60657534-ACM-DWG-001-010.DWG Project Management Initials : Designer : CG Checked : PA Approved : PA

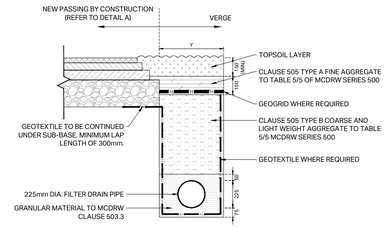


DETAIL A
NEW PASSING BAY PAVEMENT CONSTRUCTION

NOTES:
1. EDGES OF EXISTING CARRIAGEWAY TO BE CUT BACK WITH A ROTARY SAW TO FORM A VERTICAL FACE AND PRIMED IN ACCORDANCE WITH CLAUSE 903.
2. WHERE THE BASE IS TO BE LAID IN TWO LAYERS, THE UPPER BASE COURSE SHOULD BE STEPPED INTO THE EXISTING PAVEMENT BY 150mm MIN. WITH THE BINDER AND SURFACE COURSE TO BE EACH STEPPED IN A FURTHER 150mm. MIN. RESPECTIVELY.
3. CUTBACK AND BENCHING IN SHALL BE INCREASED AS NECESSARY UNTIL SOUND CLEAN MATERIAL IS ENCOUNTERED.
4. ALL SUB-FORMATION LAYERS TO ACHIEVE A CBR OF GREATER THAN 5%, ALL SOFT SPOTS TO BE EXCAVATED AND BACKFILLED WITH 6F5 OR ST4 CONCRETE AS INSTRUCTED ON SITE BY THE CLIENT'S ENGINEER REPRESENTATIVE.

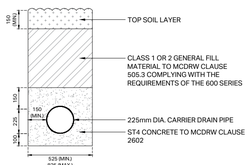


DETAIL B
FILTER DRAIN TRENCH AND BEDDING (IN VERGE)

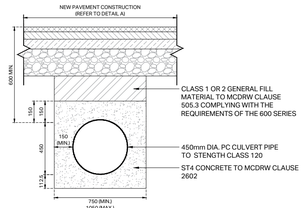


DETAIL C
FILTER DRAIN TRENCH AND BEDDING (IN VERGE ADJACENT TO NEW PAVEMENT CONSTRUCTION)

NOTES:
1. MINIMUM DRAIN WIDTH Y=525mm FOR DRAINS NOT EXCEEDING 1.5m COVER BELOW FINISHED GROUND LEVEL. Y=675mm FOR DRAINS EXCEEDING 1.5m COVER BELOW FINISHED GROUND LEVEL.
2. LOCATION AND DETAILS OF REQUIRED GEOTEXTILE SHALL BE AS DESCRIBED IN APPENDIX 5/4.

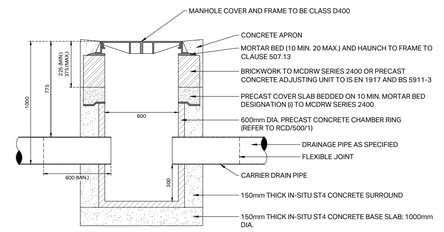


DETAIL D
CARRIER DRAIN TRENCH AND BEDDING (UNDER FIELD ACCESSES)

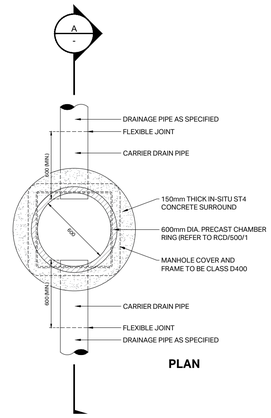


DETAIL E
CULVERT TRENCH AND BEDDING (UNDER NEW PAVEMENT CONSTRUCTION)

NOTE:
1. STRUCTURAL DESIGN REQUIRED WHERE MINIMUM COVER OF 600mm IS NOT ACHIEVED.

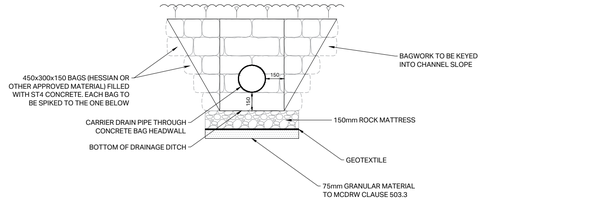


CROSS SECTION A-A



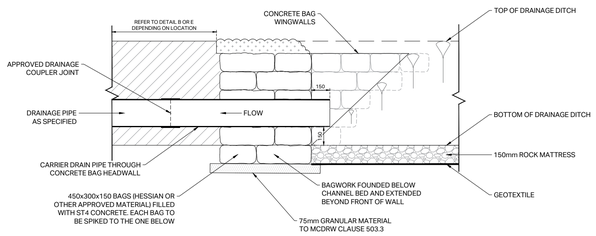
PLAN

DETAIL F
600mm CATCHPIT



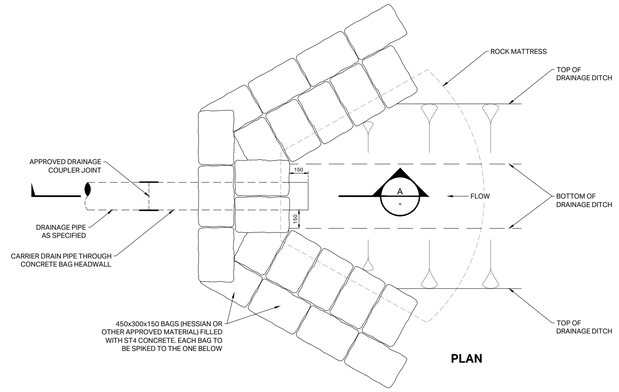
ELEVATION

NOTES:
1. ALL SUB-FORMATION LAYERS TO ACHIEVE A CBR OF GREATER THAN 2%. ALL SOFT SPOTS TO BE EXCAVATED AND BACKFILLED WITH 6F5 OR ST4 CONCRETE AS INSTRUCTED ON SITE BY THE CLIENT'S ENGINEER REPRESENTATIVE.
2. BAGWORK TO BE SPRAYED WITH A SEED MIX FOLLOWING PLACING BY A HYDROSEEDING CONTRACTOR, TO ALLOW FOR GERMINATION.

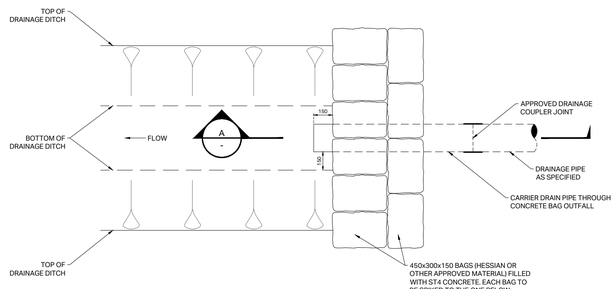


CROSS SECTION A-A

DETAIL G
CONCRETE BAG HEADWALL

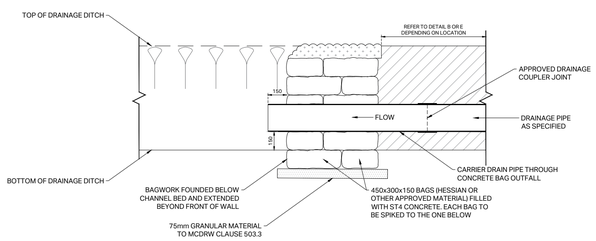


PLAN



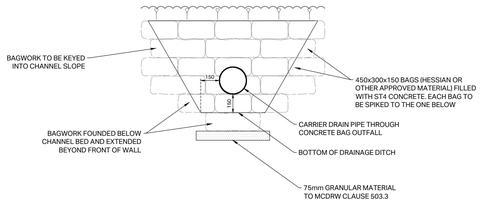
PLAN

NOTES:
1. ALL SUB-FORMATION LAYERS TO ACHIEVE A CBR OF GREATER THAN 2%. ALL SOFT SPOTS TO BE EXCAVATED AND BACKFILLED WITH 6F5 OR ST4 CONCRETE AS INSTRUCTED ON SITE BY THE CLIENT'S ENGINEER REPRESENTATIVE.
2. BAGWORK TO BE SPRAYED WITH A SEED MIX FOLLOWING PLACING BY A HYDROSEEDING CONTRACTOR, TO ALLOW FOR GERMINATION.



CROSS SECTION A-A

DETAIL H
CONCRETE BAG OUTFALL



ELEVATION

AECOM

PROJECT

ENERGIA SOLAR

CLIENT

ENERGIA

energia Switched on

CONSULTANT

AECOM
Adelphi Plaza
Georges Street Upper
Dun Laoghaire
County Dublin
Ireland
T +353 (0)1 2383100
www.aecom.com

LEGEND

NOTES

1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DOCUMENTATION.
2. DO NOT SCALE FROM THIS DRAWING; USE ONLY PRINTED DIMENSIONS.
3. ALL DIMENSIONS IN MILLIMETERS, ALL CHAINAGES, LEVELS AND CO-ORDINATES ARE IN METERS UNLESS DEFINED OTHERWISE
4. DRAWINGS ARE INDICATIVE ONLY AND SHOULD NOT BE USED FOR DETAILED DESIGN.
5. CIVIL AND DRAINAGE LEVELS AND ASSOCIATED WORKS TO BE DEVELOPED AT DETAIL DESIGN AND APPROVED BY THE CLIENT'S ENGINEER REPRESENTATIVE IN ADVANCE OF AN CONSTRUCTION WORKS.
6. ALL PUBLIC ROAD WORKS TO BE APPROVED BY LOCAL AUTHORITY IN ADVANCE OF ANY CONSTRUCTION WORKS.
7. ALL WORKS TO COMPLY WITH APPROVED CEMP.
8. ALL PERMITS AND LICENCES REQUIRED FOR THE WORKS TO BE OBTAINED AND APPROVED BY RELEVANT STATUTORY AUTHORITY IN ADVANCE OF RELEVANT WORKS.
9. ALL DRAINAGE PROPOSED BASED ON RELEVANT HYDRAULIC DESIGN CALCULATIONS AND SUBJECT TO DETAIL DESIGN TO BE UNDERTAKEN IN ADVANCE OF ANY CONSTRUCTION WORKS.
10. REFER TO 60657534-ACM-DWG-002 FOR THE OVERALL CONCEPT PLAN & 60657534-ACM-DWG-003 FOR THE PROPOSED DRAINAGE ARRANGEMENT.
11. ALL GRASS VERGES FORMED TO FINISH MIN. 150mm ABOVE ROAD LEVEL.

ISSUE/REVISION

R3	19/05/2023	NOTE UPDATE
R2	17/05/2023	ANNOTATION UPDATE
R1	15/05/2023	DETAIL H ADDED
R0	12/05/2023	FIRST ISSUE
I/R	DATE	DESCRIPTION

STATUS

PLANNING

PROJECT NUMBER 60657534

SCALE 1:25 @ A1

SHEET TITLE

CULMULLIN 220kV SUBSTATION STANDARD CONSTRUCTION DETAILS

SHEET NUMBER 60657534-ACM-DWG-010

REV R3

Last saved by: BERNICE.CAHILL(2023-05-25) Last Plotted: 2023-05-26
Filename: L:\DUBLIN-IE\DBL2\LEGACY\IE\DBL2FP0011\DATA\DCS\PROJECTS\BP\60657534_SUMMERHILLFIELDSTOWNSID900_CAD_GIS\910_CAD\CIVILS - LAY -BY MINOR ROAD\CAD -CIVIL\60657534-ACM-DWG-001-010.DWG
Project Management Initials : Designer : CG Checked : PA Approved : PA