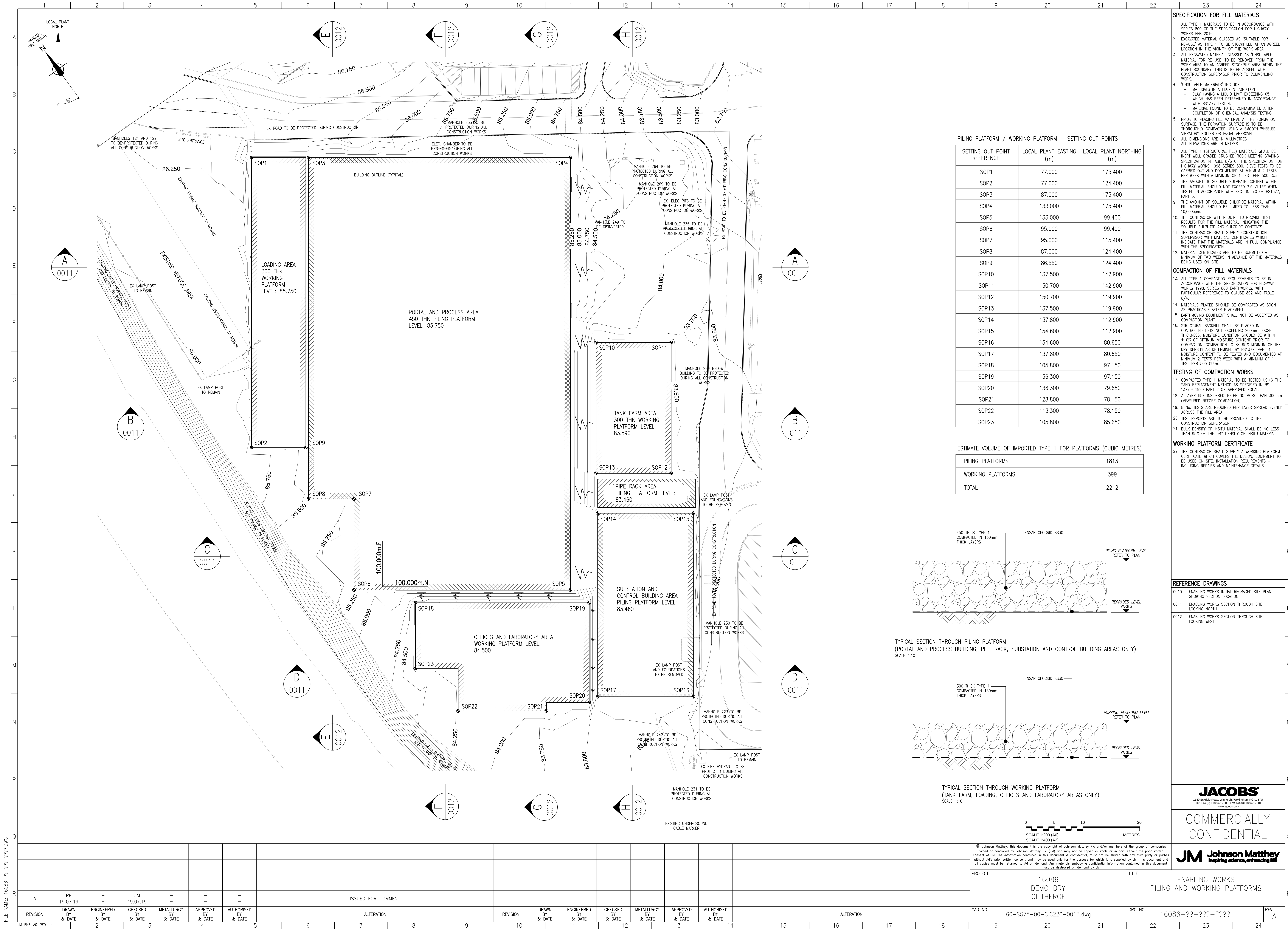


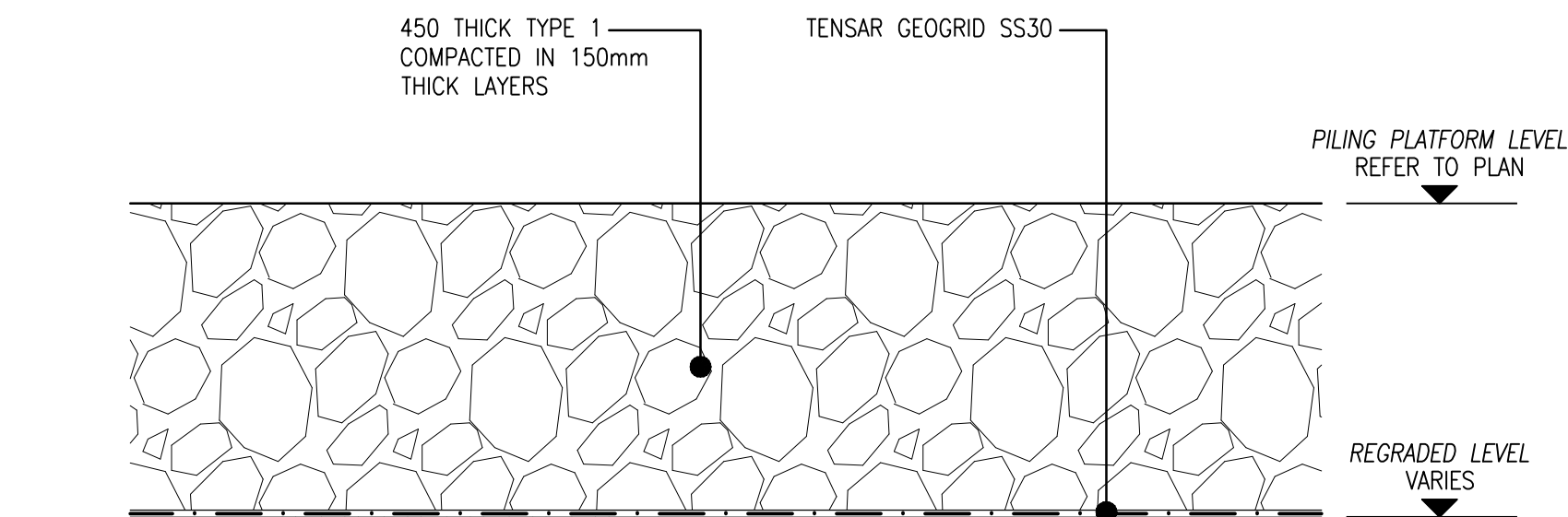


PILING PLATFORM / WORKING PLATFORM – SETTING OUT POINTS

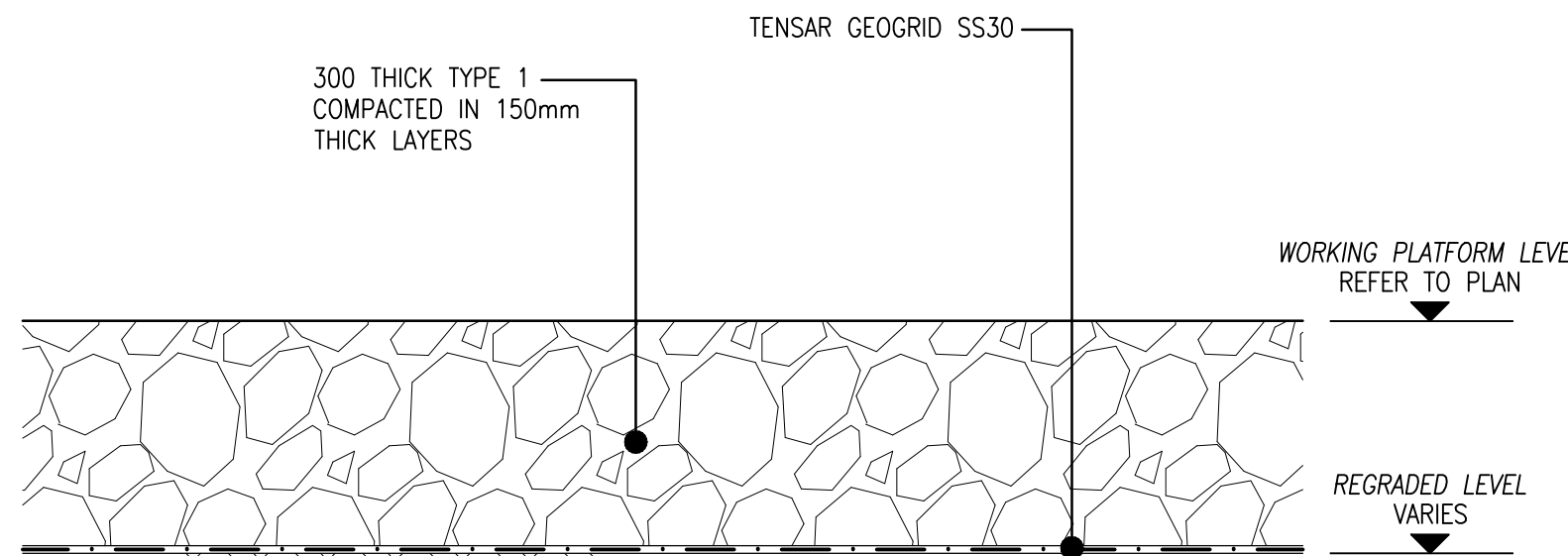
SETTING OUT POINT REFERENCE	LOCAL PLANT EASTING (m)	LOCAL PLANT NORTHING (m)
SOP1	77.000	175.400
SOP2	77.000	124.400
SOP3	87.000	175.400
SOP4	133.000	175.400
SOP5	133.000	99.400
SOP6	95.000	99.400
SOP7	95.000	115.400
SOP8	87.000	124.400
SOP9	86.550	124.400
SOP10	137.500	142.900
SOP11	150.700	142.900
SOP12	150.700	119.900
SOP13	137.500	119.900
SOP14	137.800	112.900
SOP15	154.600	112.900
SOP16	154.600	80.650
SOP17	137.800	80.650
SOP18	105.800	97.150
SOP19	136.300	97.150
SOP20	136.300	79.650
SOP21	128.800	78.150
SOP22	113.300	78.150
SOP23	105.800	85.650

ESTIMATE VOLUME OF IMPORTED TYPE 1 FOR PLATFORMS (CUBIC METRES)

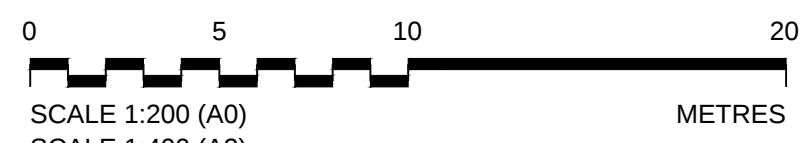
PILING PLATFORMS	1813
WORKING PLATFORMS	399
TOTAL	2212



TYPICAL SECTION THROUGH PILING PLATFORM
(PORTAL AND PROCESS BUILDING, PIPE RACK, SUBSTATION AND CONTROL BUILDING AREAS ONLY)
SCALE 1:10



TYPICAL SECTION THROUGH WORKING PLATFORM
(TANK FARM, LOADING, OFFICES AND LABORATORY AREAS ONLY)
SCALE 1:10



SPECIFICATION FOR FILL MATERIALS

- ALL TYPE 1 MATERIALS TO BE IN ACCORDANCE WITH SERIES 800 OF THE SPECIFICATION FOR HIGHWAY WORKS FEB 2016.
- EXCAVATED MATERIAL CLASSED AS 'SUITABLE FOR RE-USE' AS TYPE 1 TO BE STOCKPILED AT AN AGREED LOCATION IN THE VICINITY OF THE WORK AREA.
- ALL EXCAVATED MATERIAL CLASSED AS 'UNSUITABLE MATERIAL FOR RE-USE' TO BE REMOVED FROM THE WORK AREA TO AN AGREED STOCKPILE AREA WITHIN THE PLANT BOUNDARY. THIS IS TO BE AGREED WITH CONSTRUCTION SUPERVISOR PRIOR TO COMMENCING WORK.
- 'UNSUITABLE MATERIALS' INCLUDE:
 - MATERIALS IN A FROZEN CONDITION
 - CLAY HAVING A LIQUID LIMIT EXCEEDING 65, WHICH HAS BEEN DETERMINED IN ACCORDANCE WITH BS1377, PART 4.
 - MATERIAL FOUND TO BE CONTAMINATED AFTER COMPLETION OF CHEMICAL ANALYSIS TESTING.
- PRIOR TO PLACING FILL MATERIAL AT THE FORMATION SURFACE, THE FORMATION SURFACE IS TO BE THOROUGHLY COMPACTED USING A SMOOTH WHEELED VIBRATORY ROLLER OR EQUAL APPROVED.
- ALL DIMENSIONS ARE IN MILLIMETRES
ALL ELEVATIONS ARE IN METRES
- ALL TYPE 1 (STRUCTURAL FILL) MATERIALS SHALL BE INERT WELL GRADED CRUSHED ROCK MEETING GRADING SPECIFICATION IN TABLE 8/5 OF THE SPECIFICATION FOR HIGHWAY WORKS 1998 SERIES 800. SIEVE TESTS TO BE CARRIED OUT AND DOCUMENTED AT MINIMUM 2 TESTS PER WEEK WITH A MINIMUM OF 1 TEST PER 500 CU.M.
- THE AMOUNT OF SOLUBLE SULPHATE CONTENT WITHIN FILL MATERIAL SHOULD NOT EXCEED 2.5g/LITRE WHEN TESTED IN ACCORDANCE WITH SECTION 5.0 OF BS1377, PART 3.
- THE AMOUNT OF SOLUBLE CHLORIDE MATERIAL WITHIN FILL MATERIAL SHOULD BE LIMITED TO LESS THAN 10,000ppm.
- THE CONTRACTOR WILL REQUIRE TO PROVIDE TEST RESULTS FOR THE FILL MATERIAL INDICATING THE SOLUBLE SULPHATE AND CHLORIDE CONTENTS.
- THE CONTRACTOR SHALL SUPPLY CONSTRUCTION SUPERVISOR WITH MATERIAL CERTIFICATES WHICH INDICATE THAT THE MATERIALS ARE IN FULL COMPLIANCE WITH THE SPECIFICATION.
- MATERIAL CERTIFICATES ARE TO BE SUBMITTED A MINIMUM OF TWO WEEKS IN ADVANCE OF THE MATERIALS BEING USED ON SITE.

COMPACTION OF FILL MATERIALS

- ALL TYPE 1 COMPACTION REQUIREMENTS TO BE IN ACCORDANCE WITH THE SPECIFICATION FOR HIGHWAY WORKS 1998, SERIES 800 EARTHWORKS, WITH PARTICULAR REFERENCE TO CLAUSE 802 AND TABLE 8/4.
 - MATERIALS PLACED SHOULD BE COMPACTED AS SOON AS PRACTICABLE AFTER PLACEMENT.
 - EARTHMOVING EQUIPMENT SHALL NOT BE ACCEPTED AS COMPACTION PLANT.
 - STRUCTURAL BACKFILL SHALL BE PLACED IN CONTROLLED LIFTS NOT EXCEEDING 200mm LOOSE THICKNESS. MOISTURE CONDITION SHOULD BE WITHIN $\pm 10\%$ OF OPTIMUM MOISTURE CONTENT PRIOR TO COMPACTION. COMPACTION TO BE 95% MINIMUM OF THE DRY DENSITY AS DETERMINED BY BS1377, PART 4. MOISTURE CONTENT TO BE TESTED AND DOCUMENTED AT MINIMUM 2 TESTS PER WEEK WITH A MINIMUM OF 1 TEST PER 500 CU.M.
- TESTING OF COMPACTION WORKS
- COMPACTED TYPE 1 MATERIAL TO BE TESTED USING THE SAND REPLACEMENT METHOD AS SPECIFIED IN BS 1377:9 1990 PART 2 OR APPROVED EQUAL.
 - A LAYER IS CONSIDERED TO BE NO MORE THAN 300mm (MEASURED BEFORE COMPACTION).
 - 8 NO. TESTS ARE REQUIRED PER LAYER SPREAD EVENLY ACROSS THE FILL AREA.
 - TEST REPORTS ARE TO BE PROVIDED TO THE CONSTRUCTION SUPERVISOR.
 - BULK DENSITY OF INSITU MATERIAL SHALL BE NO LESS THAN 95% OF THE DRY DENSITY OF INSITU MATERIAL.

WORKING PLATFORM CERTIFICATE

- THE CONTRACTOR SHALL SUPPLY A WORKING PLATFORM CERTIFICATE WHICH COVERS THE DESIGN, EQUIPMENT TO BE USED ON SITE, INSTALLATION REQUIREMENTS - INCLUDING REPAIRS AND MAINTENANCE DETAILS.

REFERENCE DRAWINGS

0010	ENABLING WORKS INITIAL REGRADED SITE PLAN SHOWING SECTION LOCATION
0011	ENABLING WORKS SECTION THROUGH SITE LOOKING NORTH
0012	ENABLING WORKS SECTION THROUGH SITE LOOKING WEST

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PROJECT

16086
DEMO DRY
CLUTHEROE

TITLE
ENABLING WORKS
PILING AND WORKING PLATFORMS

CAD NO.

60-SG75-00-C.C220-0013.dwg

DRG NO.

16086-??-??-???

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