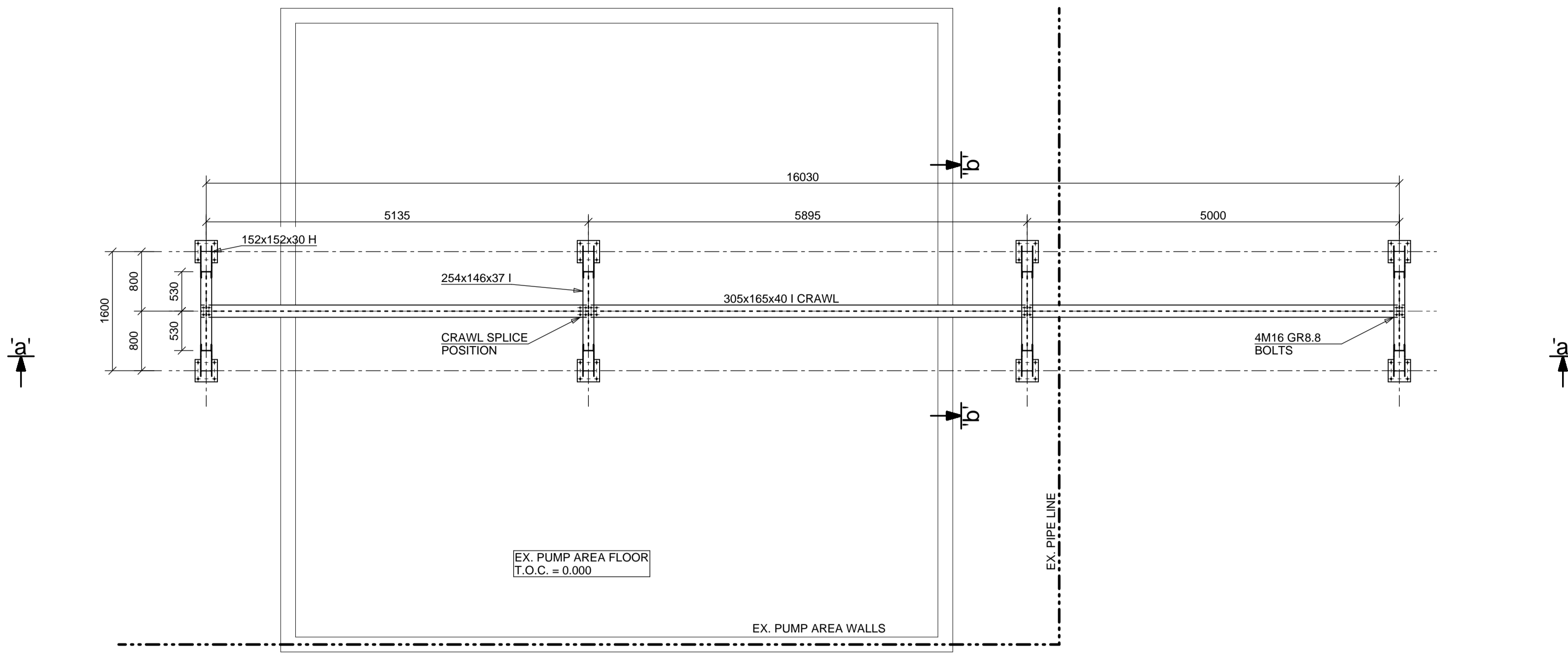


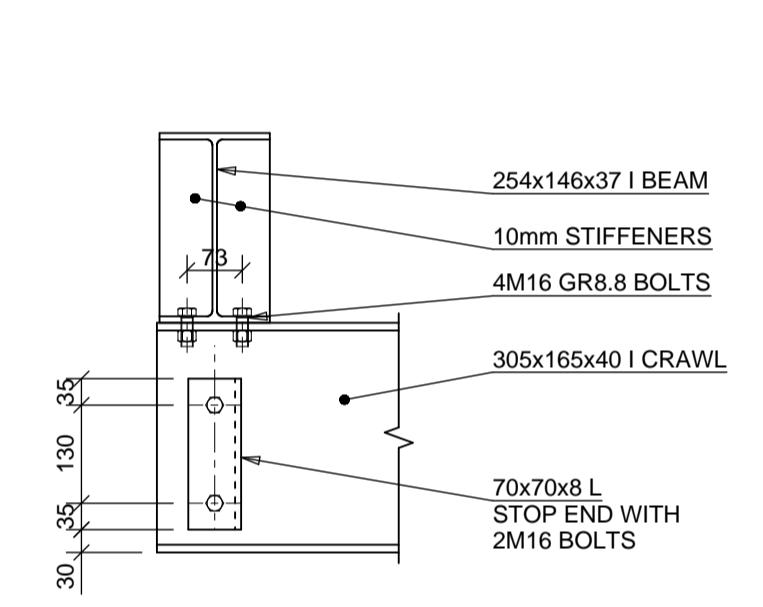
- LIFTING EQUIPMENT NOTES:**
- LIFTING EQUIPMENT TO BE SUPPLIED BY MAIN CONTRACTOR
 - LIFTING EQUIPMENT TO BE LOAD TESTED TO SANS REGULATIONS
 - SAFE WORKING LOAD OF 3 TONNES TO BE STAMPED ON CRAWL BEAM

STRUCTURAL STEEL NOTES:

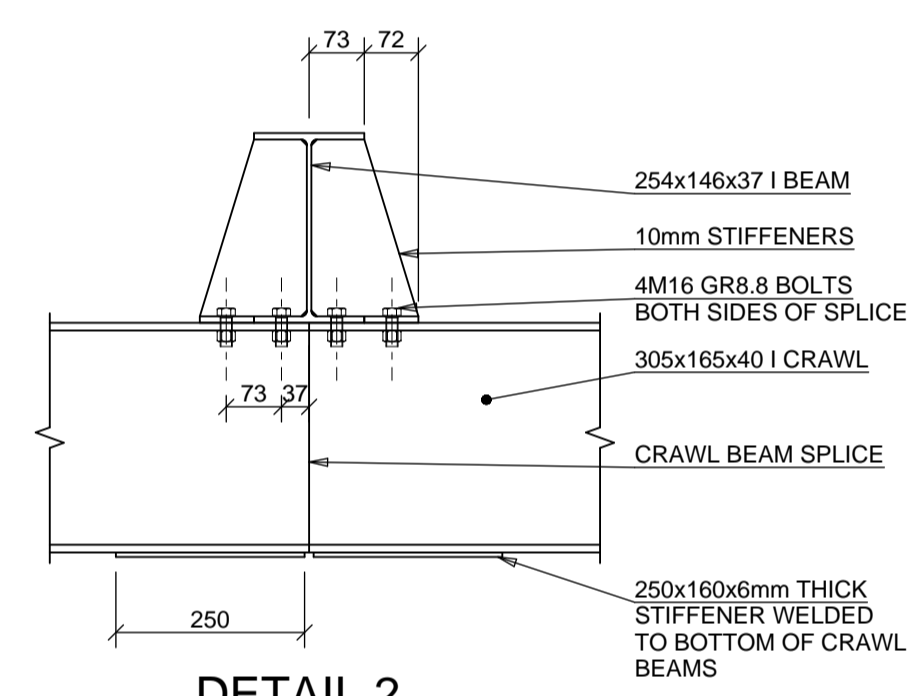
- A. DESIGN:**
- MEMBERS ARE DESIGNED TO THE REQUIREMENTS OF SANS 10400 (LATEST EDITION), AND ALL REFERENCED DESIGN CODES.
 - HOT ROLLED STEELWORK TO BE GRADE S355JR TO EN10025-2 U.O.S.
 - COLD FORMED STEELWORK TO BE COMMERCIAL GRADE S355JR TO EN10225-2 U.O.S.
 - BOLTS, NUTS AND WASHERS TO BE GRADE 8.8 U.O.S.
 - (I) FRICTION GRIP BOLTS TO BE GRADE 8.8S WHERE SPECIFIED.
 - (II) FRICTION TO BE OBTAINED BY TURNING OF THE NUT.
 - (III) FRICTION GRIP SURFACES TO BE PRE-PAINTED WITH INORGANIC ZINC ONLY.
 - WELDS TO BE CONTINUOUS FILLET WELDS (U.O.S.) WITH A THROAT THICKNESS NOT EXCEEDING 0.7 TIMES THE THINNER MATERIAL THICKNESS WELDED TO.
- B. FABRICATION & ERECTION:**
- STEEL FABRICATION AND ERECTION TO COMPLY WITH SANS 2001-CS1, AND MAY NOT COMMENCE BEFORE FABRICATION DRAWINGS HAVE BEEN APPROVED BY THE ENGINEER.
 - CONNECTION DETAILS TO BE APPROVED BY THE ENGINEER BEFORE FABRICATION DRAWINGS ARE SUBMITTED FOR APPROVAL.
 - MINIMUM EDGE DISTANCE TO BOLTS TO BE 1.75 TIMES BOLT DIAMETER, U.O.S.
 - MINIMUM BOLTS SPACING TO BE 2.5 TIMES BOLT DIAMETER, U.O.S.
 - CONTRACTOR TO ENSURE THE STABILITY AND SAFE ERECTION OF THE STRUCTURE, AND TO PROVIDE ALL NECESSARY BRACING TO ENABLE HIM TO DO SO. SUCH BRACING TO BE INDICATED ON THE ERECTION GENERAL ARRANGEMENT DRAWINGS.
 - NO SITE CUTTING OR WELDING WILL BE ALLOWED UNLESS PRE-ARRANGED WITH THE ENGINEER.
- C. GENERAL:**
- THE ENGINEER WILL NOT BE HELD RESPONSIBLE FOR ANY WORK THAT DEVIATES FROM THE ENGINEER'S OR APPROVED FABRICATION DRAWINGS.
 - PURLINS TO SPAN ACROSS TWO SPANS CONTINUOUSLY MINIMUM, AND ALL PURLIN SPLICES TO BE STAGGERED.
- D. FINISHES TO STEELWORK**
- SURFACE PREPARATION:**
SHOP PREPARE STEEL BY WIRE BRUSHING TO SWEDISH STANDARD SPECIFICATION 055500-0F:1987 SA2.
 - PRIMER:**
APPLY BY BRUSH OR ROLLER, ONE COAT PLASCON HIB ZINC PHOSPHATE, UC 182 SERIES TO DFT (50) µm. ONE SHADE LIGHTER THAN FINAL COAT.
 - TOP COAT:**
APPLY BY BRUSH OR ROLLER TWO COAT PLASCON ENAMEL HG SERIES TO DFT EN (30) µm TO CLIENT'S SPECIFICATIONS.
 - ALLOW 24 HRS. BETWEEN COATS FOR DRYING.
 - DAMAGES TO COATINGS DURING TRANSIT, SITE WELDING AND/OR ERECTION MUST BE WIRE BRUSHED TO BARE METAL AND FOLLOWED BY THE ABOVE SPECIFICATION.
 - APPROVED ALTERNATIVE PRODUCTS MAY BE USED.
 - ALL FILM THICKNESSES WILL BE MEASURED ON SITE TO VERIFY THAT THESE SPECIFICATIONS HAVE BEEN MET.
- E. FINISHES TO GUTTERS, HOPPERS & RWP'S (IF APPLICABLE)**
- OUTSIDE SURFACES:
AS TO THE ABOVE SPECIFICATION.
 - INSIDE SURFACES:
A. PREPARE SURFACE TO NOTE 1.
B. APPLY BY BRUSH ONE COAT PLASCON EPILYTE EPD 428 TO DFT 75 µm OR SIMILAR APPROVED.
C. APPLY BY BRUSH ONE COAT PLASCON EPILYTE EPD 428 TO DFT 75 µm OR SIMILAR APPROVED.
D. ALLOW 24 HOURS DRYING TIME BETWEEN COATS.
NOTE: BOTH COATS TO BE SHOP APPLIED, NO PAINT TO BE APPLIED 100 mm FROM WHERE WELDING WILL OCCUR ON SITE TO SPLICE GUTTERS. THESE JOINTS AND ALL DAMAGED AREAS TO BE REPAIRED AS ABOVE.



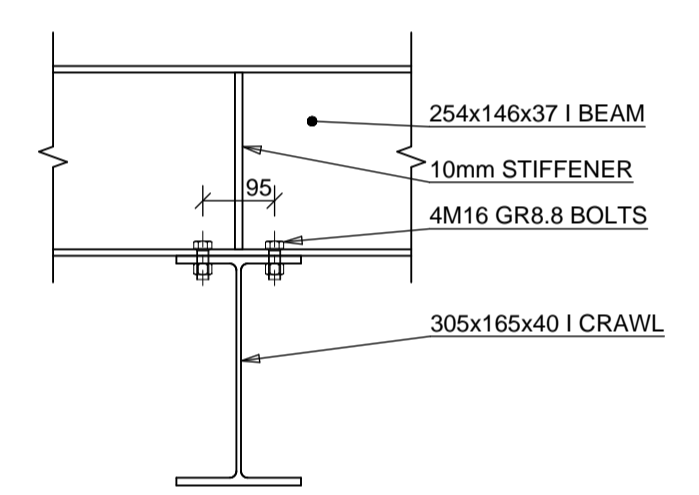
STEEL LAYOUT
SCALE 1:50



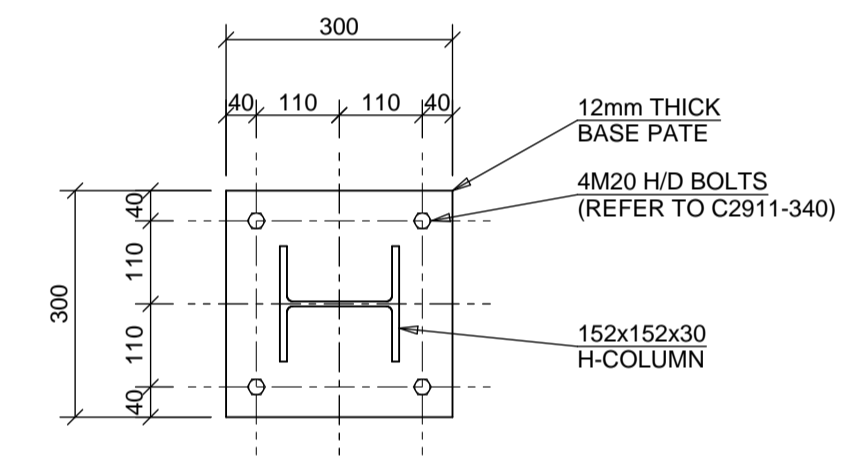
DETAIL 3
SCALE 1:10



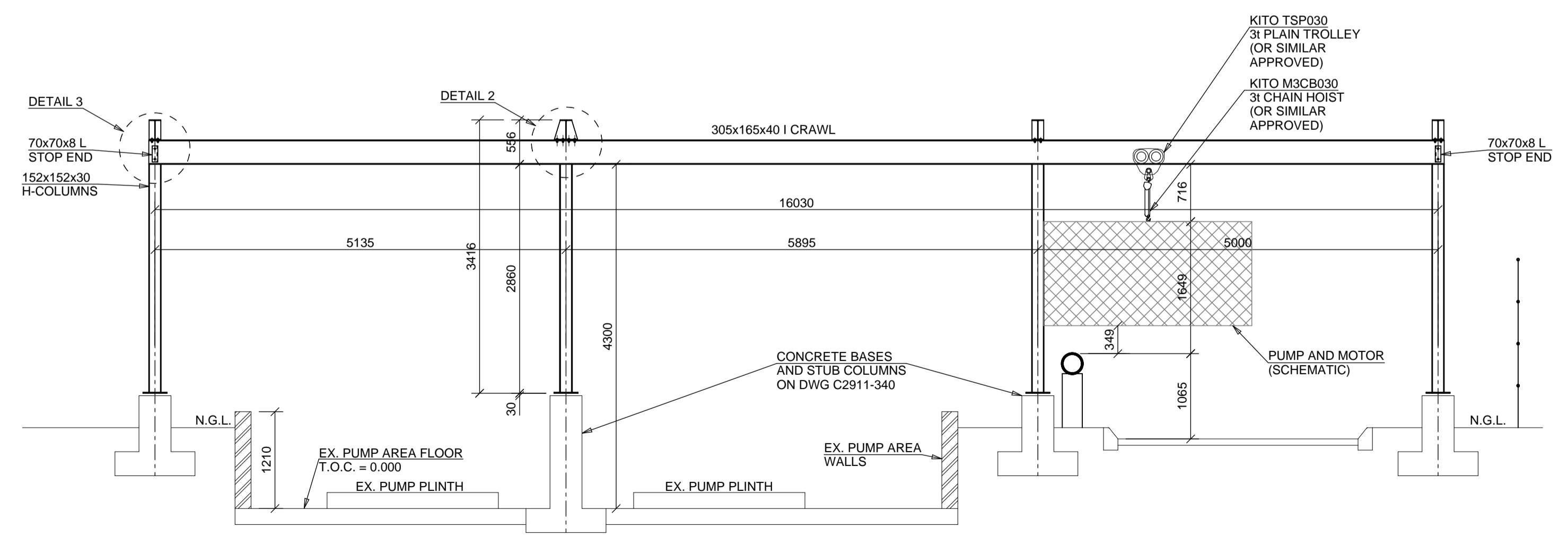
DETAIL 2
SCALE 1:10



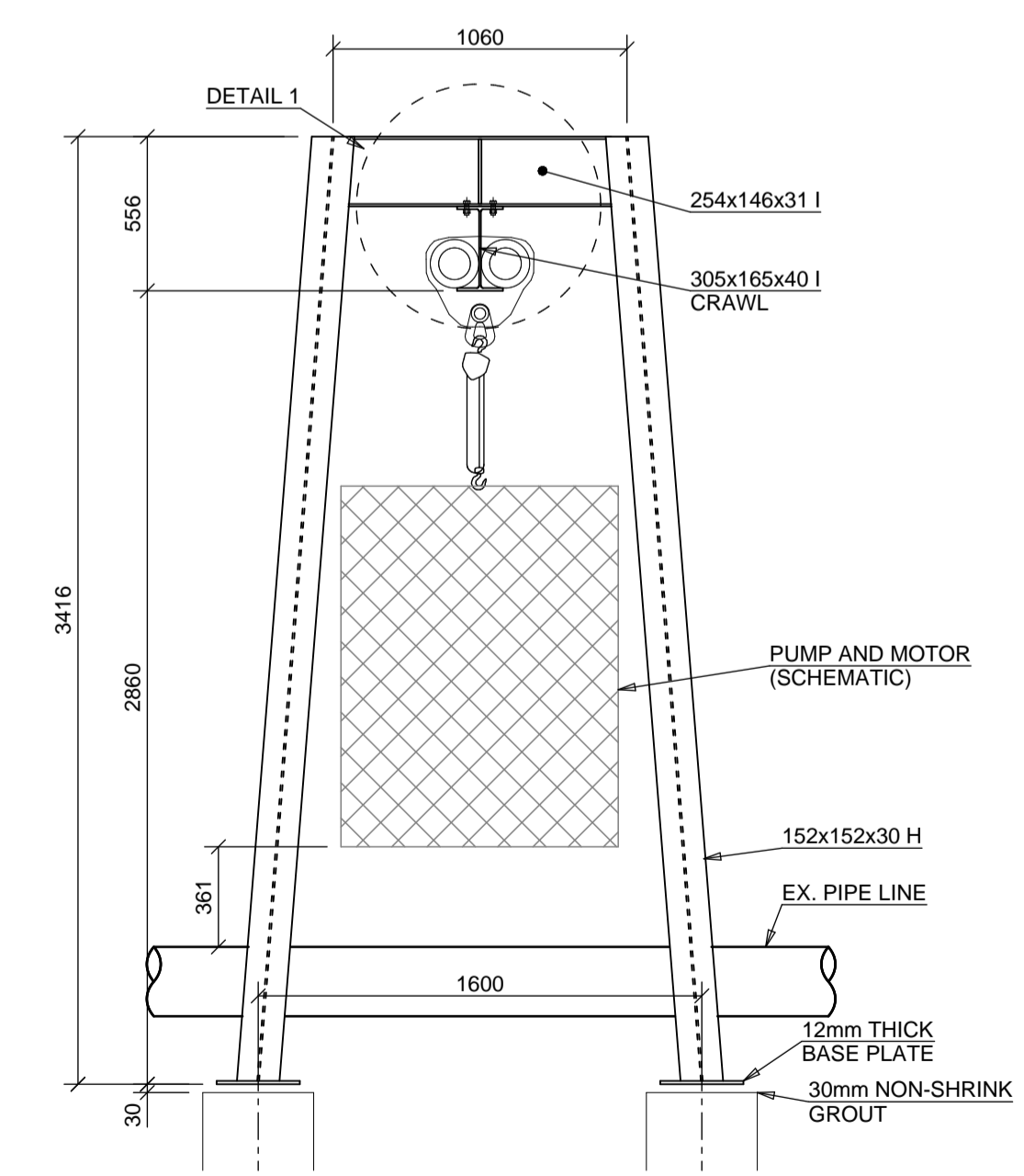
DETAIL 1
SCALE 1:10



BASE PLATE DETAIL
SCALE 1:10



SECTION 'a' - 'a'
SCALE 1:50



SECTION 'b' - 'b'
SCALE 1:25

22/06/2022	0	ISSUED FOR TENDER
DATE	NO	REVISION

CLIENT

CSIR

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PROJECT

BUILDING 13 CRAWL BEAM STRUCTURE

DRAWING TITLE

STEEL LAYOUT

DRAWING NO

C2911 - 540

REV. NO.	0			
SCALE:	AS SHOWN	DESIGNED	C.C. STEYN	
SHEET:	A1	DRAWN	C.C. STEYN	
DATE	MAY 2021	CHECKED	T.S. KRUGER	