

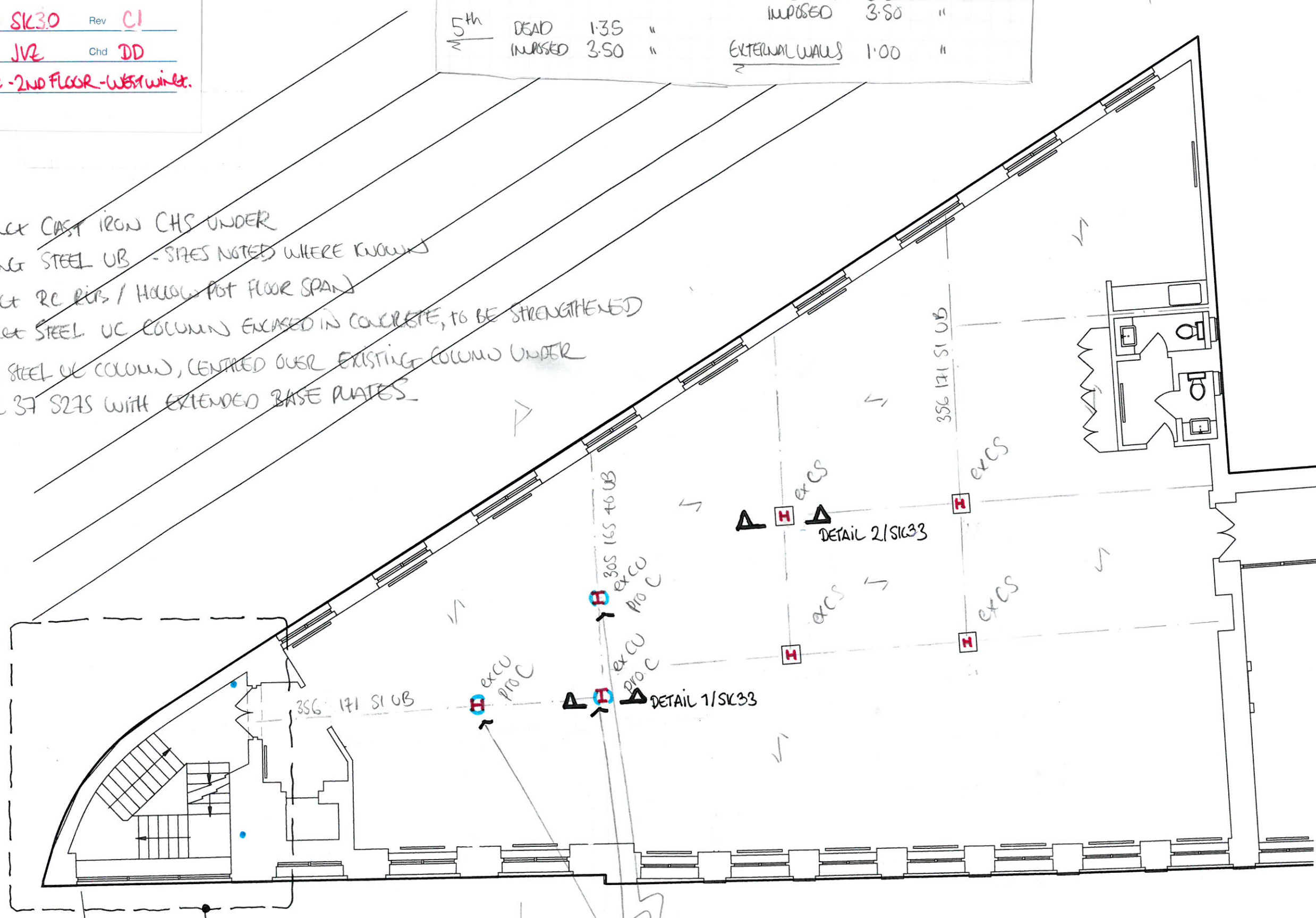
THE FOLLOWING LOADINGS ARE ASSUMED FOR THE EXTENSION (unf)

ROOF	DEAD	2.00	kN/m ²	4 th	DEAD-FLOOR	1.60	kN/m ²
	IMPOSED	0.75	"		DEAD-ROOF	0.60	"
5 th	DEAD	1.35	"	IMPOSED	3.50	"	
	IMPOSED	3.50	"	EXTERNAL WALLS	1.00	"	

NOTE - LOCATION OF EXISTING STRUCTURE INDICATIVE ONLY. NO SURVEY HAS BEEN CARRIED OUT.

LEGEND

- C ex CU EXISTING CAST IRON CHS UNDER
- EXISTING STEEL UB - SIZES NOTED WHERE KNOWN
- ↓ EXISTING RC RIBS / HOLLOW POT FLOOR SPAN
- H ex CS EXISTING STEEL UC COLUMN ENCASED IN CONCRETE, TO BE STRENGTHENED
- H pro C PROPOSED STEEL UC COLUMN, CENTRED OVER EXISTING COLUMN UNDER
- 152 UC 37 S275 WITH EXTENDED BASE PLATES



FOR STAIR CORE WORKS, REFER TO 24259 - SK24

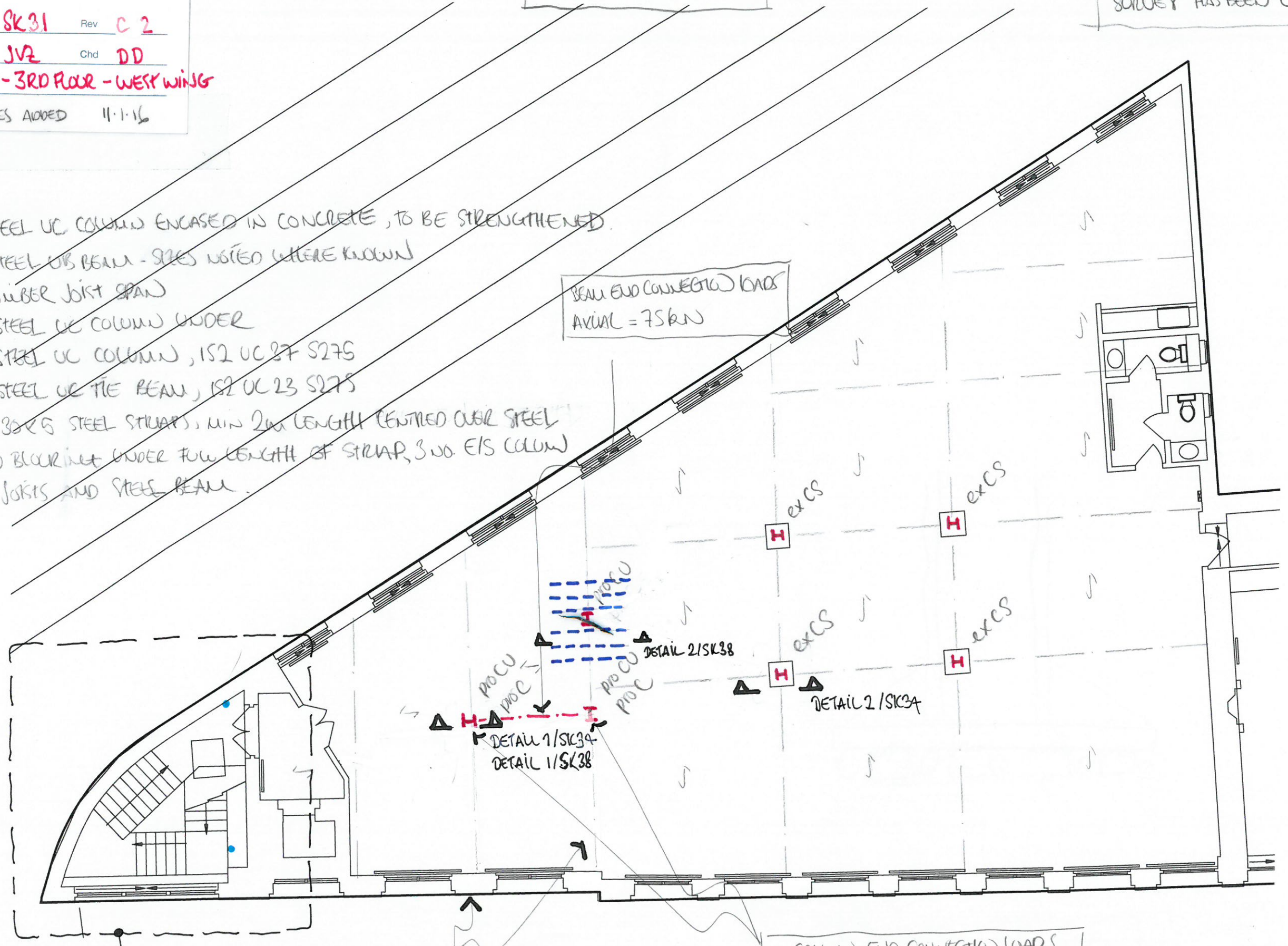
COLUMN END CONNECTION LOADS:
AXIAL = 450 kN (COMPRESSION)
HORIZONTAL SHEAR = 75 kN (NOMINAL)

REFER TO 24259-SK30
FOR LOADING ASSUMPTIONS

NOTE - LOCATION OF EXISTING
STRUCTURE INDICATIVE ONLY - NO
SURVEY HAS BEEN CARRIED OUT

LEGEND

- EXISTING STEEL UC COLUMN ENCASED IN CONCRETE, TO BE STRENGTHENED.
- EXISTING STEEL UB BEAM - SIZES NOTED WHERE KNOWN
- EXISTING TIMBER JOIST SPAN
- PROPOSED STEEL UC COLUMN UNDER
- PROPOSED STEEL UC COLUMN, 152 UC 87 S275
- PROPOSED STEEL UC TIE BEAM, 152 UC 23 S275
- PROPOSED 3x25 STEEL STRAPS, MIN 2m LENGTH (CENTRED OVER STEEL WITH SOLID BLOCKING UNDER FULL LENGTH OF STRAP, 3 JOE E/S COLUMN) FIXED TO JOISTS AND STEEL BEAM.



BEAM END CONNECTION LOADS
AXIAL = 75kN

FOR STAIR CORE WALLS, REFER TO 24259-SK26

NOTE - EXISTING FLOOR BEAM DOES NOT
NECESSARILY LINE UP WITH PROPOSED COLUMN.

COLUMN END CONNECTION LOADS
AXIAL = 380kN (COMPRESSION)
HORIZONTAL SHEAR = 75kN

REFER TO 24259-SIL30
FOR LOADING ASSUMPTIONS

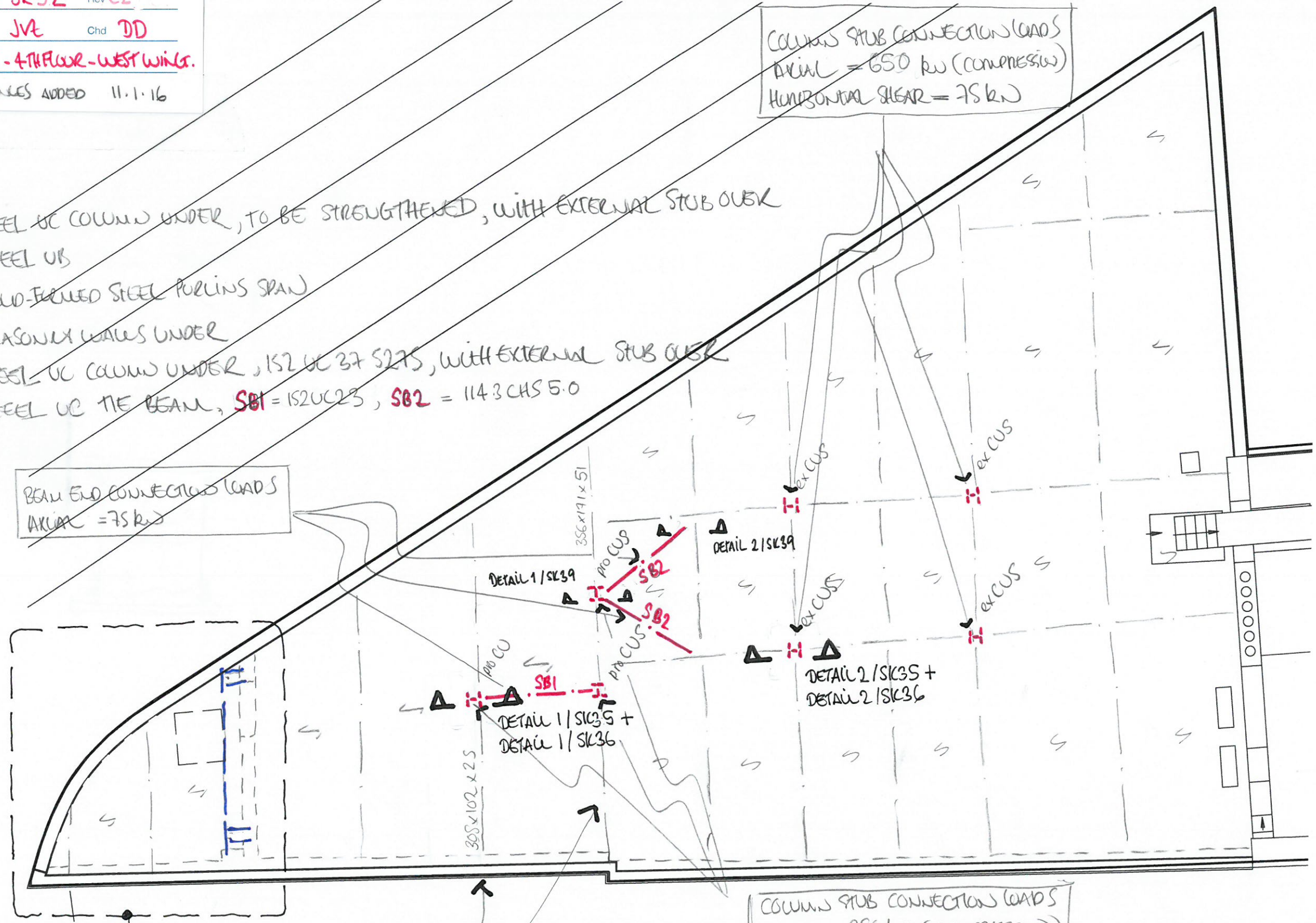
NOTE - LOCATION OF EXISTING
STRUCTURE INDICATIVE ONLY. NO
SURVEY HAS BEEN CARRIED OUT.

LEGEND

- EXISTING STEEL UC COLUMN UNDER, TO BE STRENGTHENED, WITH EXTERNAL STUB OVER
- EXISTING STEEL UB
- EXISTING COLD-FORMED STEEL PURLINS SPAN
- EXISTING MASONRY WALLS UNDER
- PROPOSED STEEL UC COLUMN UNDER, 152 UC 37 S275, WITH EXTERNAL STUB OVER
- PROPOSED STEEL UC TIE BEAM, **SBI** = 152 UC 23, **SB2** = 114 3 CHS 5.0

COLUMN STUB CONNECTION LOADS
AXIAL = 650 kN (COMPRESSION)
HORIZONTAL SHEAR = 75 kN

BEAM END CONNECTION LOADS
AXIAL = 75 kN



COLUMN STUB CONNECTION LOADS
AXIAL = 350 kN (COMPRESSION)
HORIZONTAL SHEAR = 75 kN

FOR STAIR CASE WORKS, REFER TO 24259-SK20

NOTE - EXISTING RCF BEAM DOES NOT
NECESSARILY LINE UP WITH PROPOSED COLUMN.

DETAIL 2 (N/S) (SECTION)

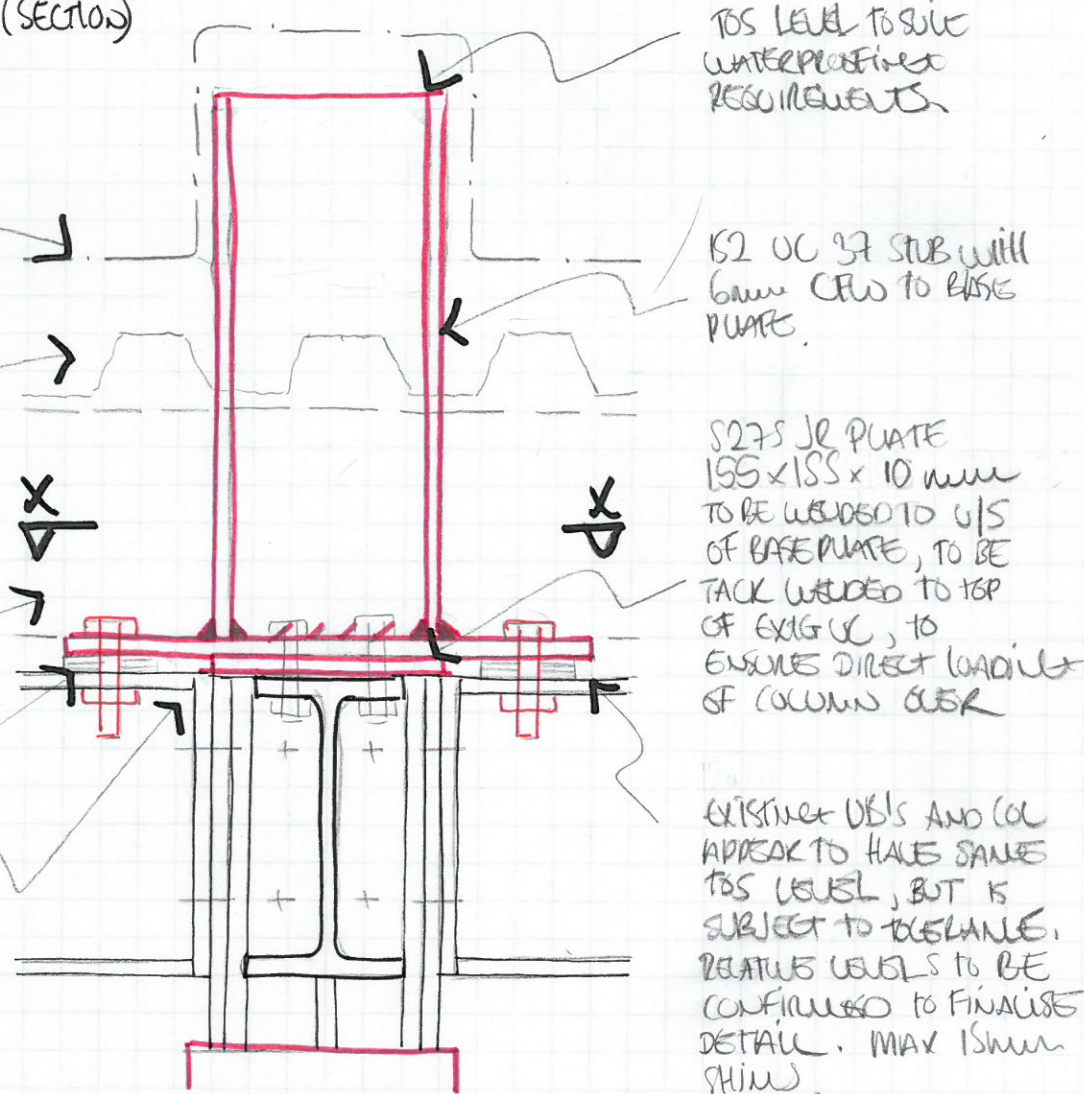
NEW WATERPROOFING TO ARCHITECTS DETAILS.

SECTION OF EXISTING PROFILED METAL DECK TO BE REMOVED TO ALLOW CONNECTION WORKS, DECK TO BE REPLACED TO MATCH EXISTING.

PURLINS TO BE TRIMMED IF CUSHINER WITH PROPOSED COLUMNS.

SOME SQUARE SHIMS BETWEEN EXTG FLANGE AND PROPOSED BASE PLATE

EXISTING SPRAY-ON FLE PROOFING TO BE REMOVED LOCAL TO CONNECTION.

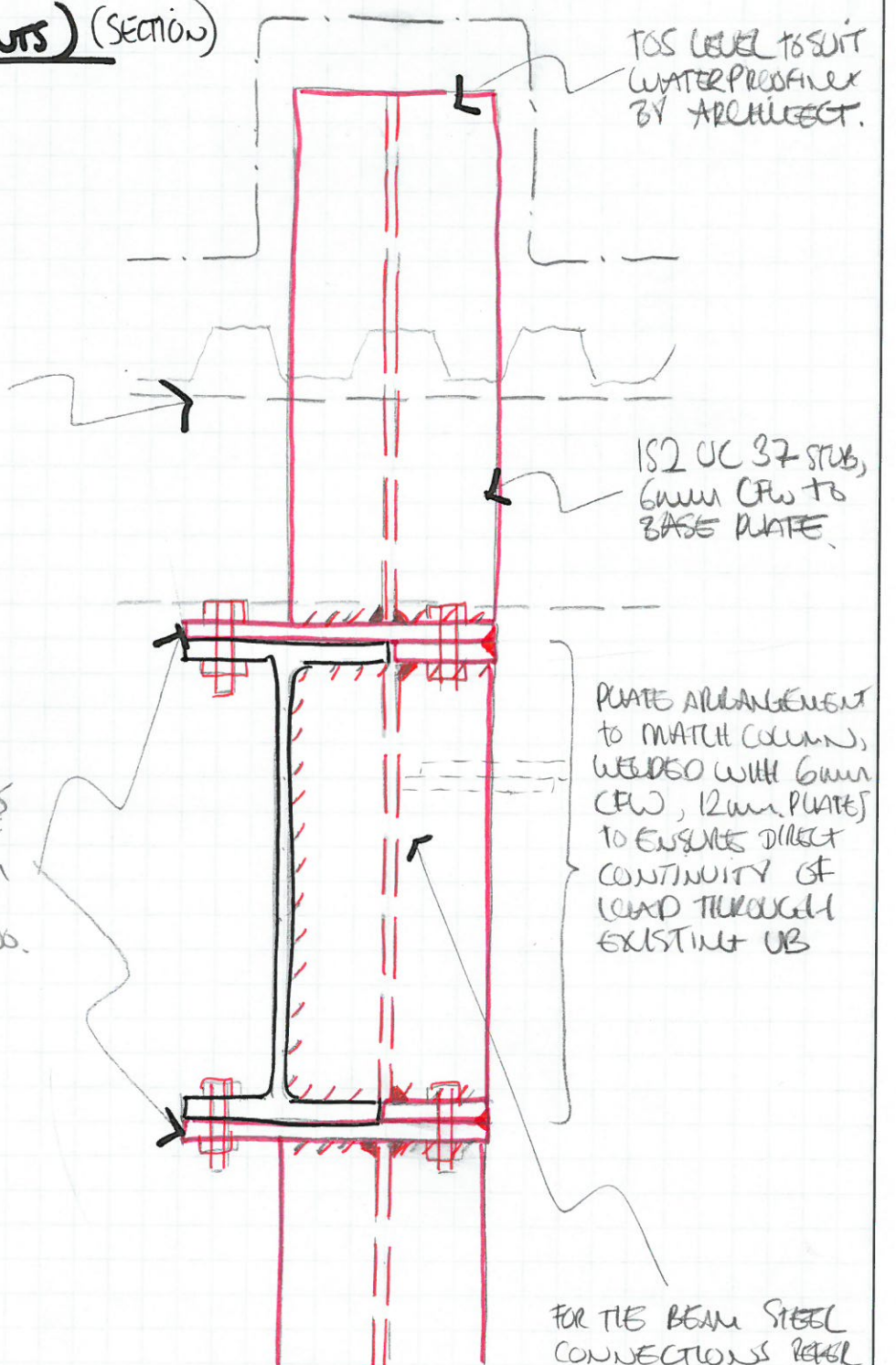


DETAIL 1 (N/S) (SECTION)

TOS LEVEL TO SUIT WATERPROOFING BY ARCHITECT.

SURUSY TO CONFIRM IF PURLINS ARE CUSHINER. IF SO, TRIMMED.

BASE AND CAP PLATES TO MATCH WIDTH OF INTERFACE. 12mm WIDTH WITH M20 GRADE 8.8 BOLTS, A WS.



SECTION X-X (PLAN)

2 NO. M16 BOLTS TO EACH EXISTING UB FRAMING INTO COLUMN UNDER

12mm THICK, S275 BASE PLATE, 350x200

HOLE IN EXISTING UB'S TO BE SUE DRILLED TO SUIT BASE PLATE.

