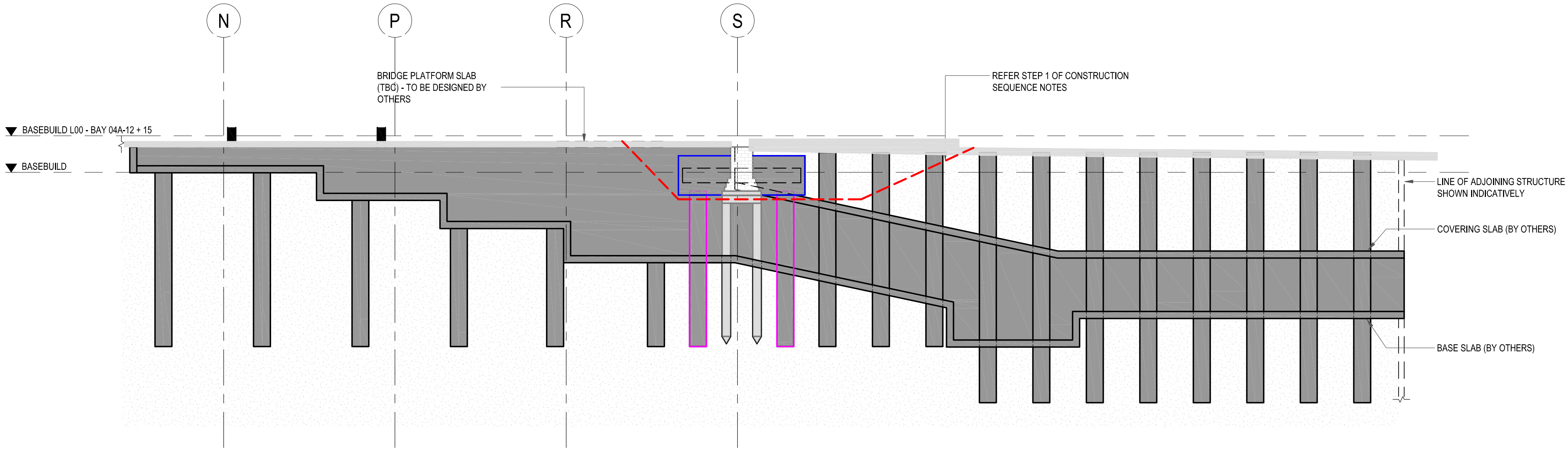
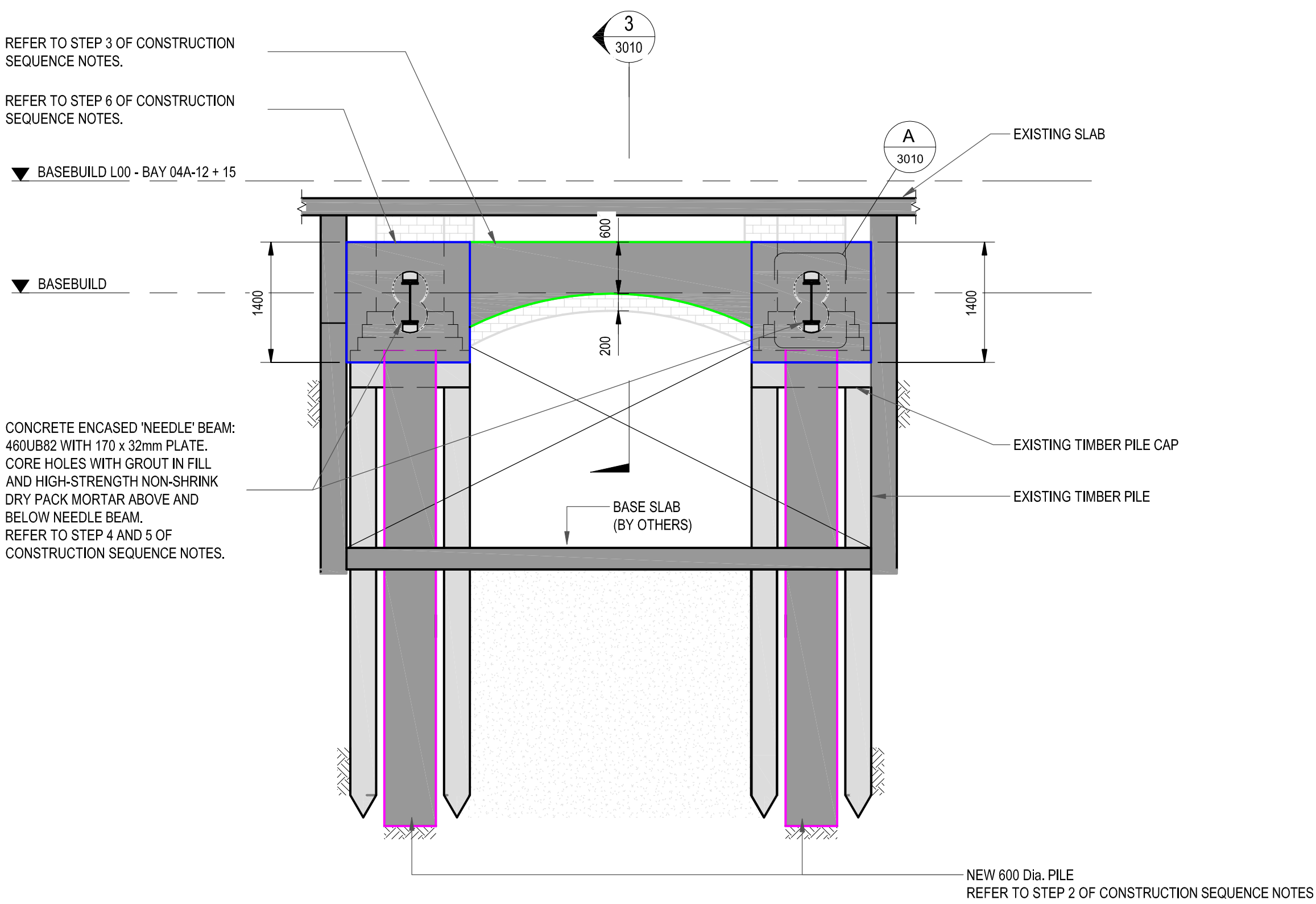


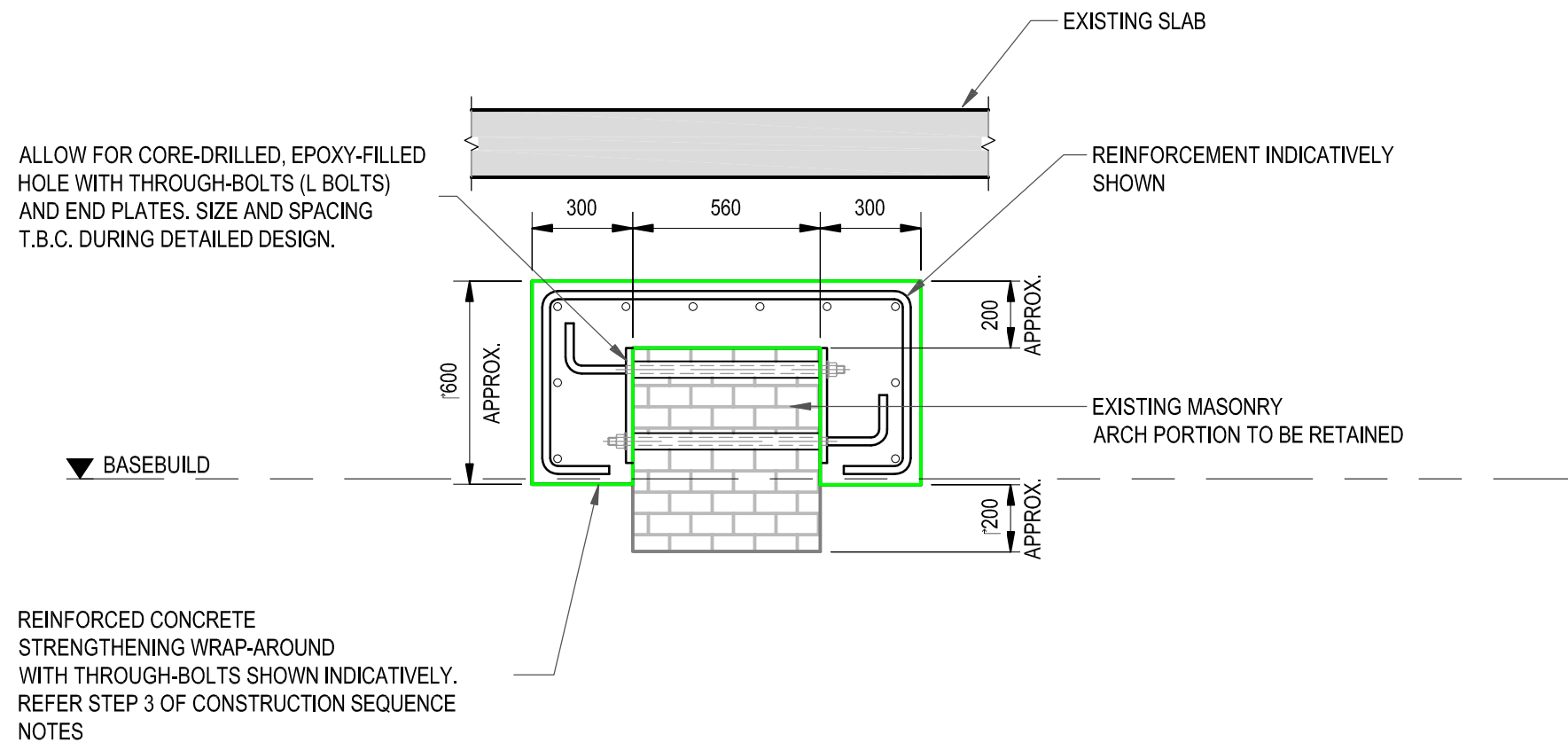
TRAVELATOR PLAN - BAY 4
1:100



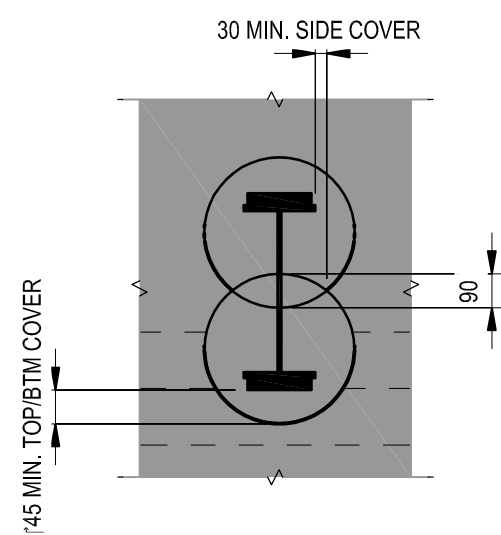
SECTION 1
1:100



SECTION 2
1:50



SECTION 3
1:20



DETAIL A
1:20

NOTES:

1. ALL LEVELS, DIMENSIONS AND LOCATIONS OF EXISTING FOUNDATION ELEMENTS TO BE CONFIRMED ON SITE PRIOR TO CONSTRUCTION.
2. CONCRETE WRAP-AROUND EXISTING MASONRY ARCH: $F_c = 40\text{MPa}$ CONCRETE STRENGTH. ALLOW FOR REINFORCEMENT RATE OF 80kg/m^3 .
3. CONCRETE ENCASED NEEDLE BEAM: $F_c = 40\text{MPa}$ CONCRETE STRENGTH. ALLOW FOR REINFORCEMENT RATE OF 100kg/m^3 .
4. NEW BORED PILES FOR NEEDLE BEAMS ASSUMED TO BE SOCKETED INTO ROCK WITH A MINIMUM ALLOWABLE BEARING PRESSURE OF 2000kPa (CLASS III LOW STRENGTH SHALE).

CONSTRUCTION SEQUENCE

1. EXCAVATE DOWN TO BASE OF MASONRY PIER WITH SAFE BATTER SLOPE TO GEOTECH ENGINEER'S RECOMMENDATION. DO NOT DISTURB EXISTING TIMBER PILE CAP.
2. INSTALL NEW 600 DIA. BORED PILES FOR NEEDLE BEAMS.
3. STRENGTHEN TOP OF MASONRY ARCH WITH ADDITIONAL CONCRETE JACKET (BOTH SIDES, AS SHOWN ON PLAN). $6000 \times 300\text{W}$ APPROXIMATELY EACH SIDE TO BE FIXED INTO MASONRY ARCH USING THROUGH-BOLTS.
4. DRILL 2 OFF 400mm DIAMETER CORES THROUGH MASONRY PIER. CENTRE OF HOLE TO ALIGN HORIZONTALLY WITH ARCH STRENGTHENING BEAM.
5. INSTALL NEEDLE BEAMS AND PLACE HIGH STRENGTH NON-SHRINK DRY PACK MORTAR TO ENSURE ADEQUATE LOAD TRANSFER. NEEDLE BEAM TO BE HOT DIP GALVANIZED 460UB82 WITH $170 \times 32\text{mm}$ THICK PLATE WELDED TO TOP/BOTTOM FLANGE. CONCRETE THE FULL EXTENT OF THE NEEDLE BEAM WITHIN THE CORE HOLES. ENSURE THE REQUIRED CONCRETE COVER IS ACHIEVED ON THE NEEDLE BEAM AROUND THE EXISTING MASONRY FOUNDATION.
6. STRENGTHEN MASONRY PIER AND LENGTH OF NEEDLE WITH ADDITIONAL CONCRETE WRAP-AROUND. $1400\text{D} \times 1400\text{W}$ APPROXIMATELY.

LEGEND

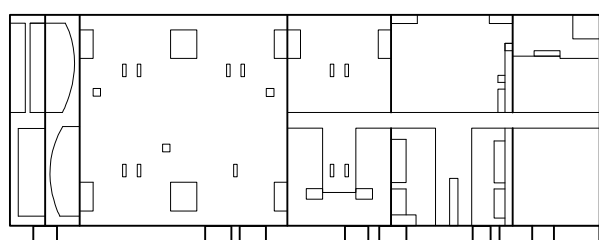
- DENOTES EXISTING STRUCTURE
- DENOTES NEW STRUCTURE
- DENOTES EXISTING MASONRY

notes

ALL EXISTING CONDITIONS TO BE CHECKED ON SITE.
ALL DIMENSIONS AND SETOUTS TO BE VERIFIED PRIOR TO COMMENCEMENT ON SITE. ALL OMISSIONS OR DISCREPANCIES TO BE NOTIFIED TO THE ARCHITECT.

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key plan



rev	date	description	by	chk
A	30-04-18	ISSUED FOR INFORMATION / RTS SUBMISSION	K.S	J.L

structural consultant
ARCADIS
Level 16, 580 George St, Sydney NSW 2000
Tel. +61 (0)2 8907 9000

client
MIRVAC
Level 28, 200 George St
Sydney NSW 2000

project
LOCOMOTIVE WORKSHOP - BUILDING 4
2 Locomotive St, Eveleigh NSW 2015

architect
SISSONS ARCHITECTS
Studio 5, 81 Alexander St, Crows Nest, NSW 2065
Tel. 02 9460 8002

drawing title
TRAVELATOR PLAN AND DETAILS

status
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project no. 10004164	scale As indicated @B1	date 30/04/18
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