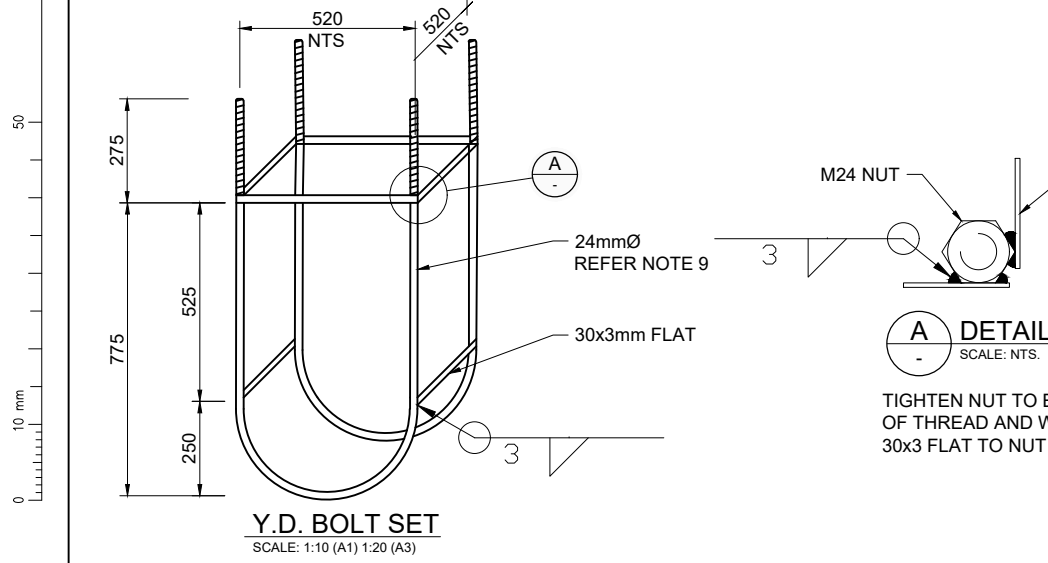
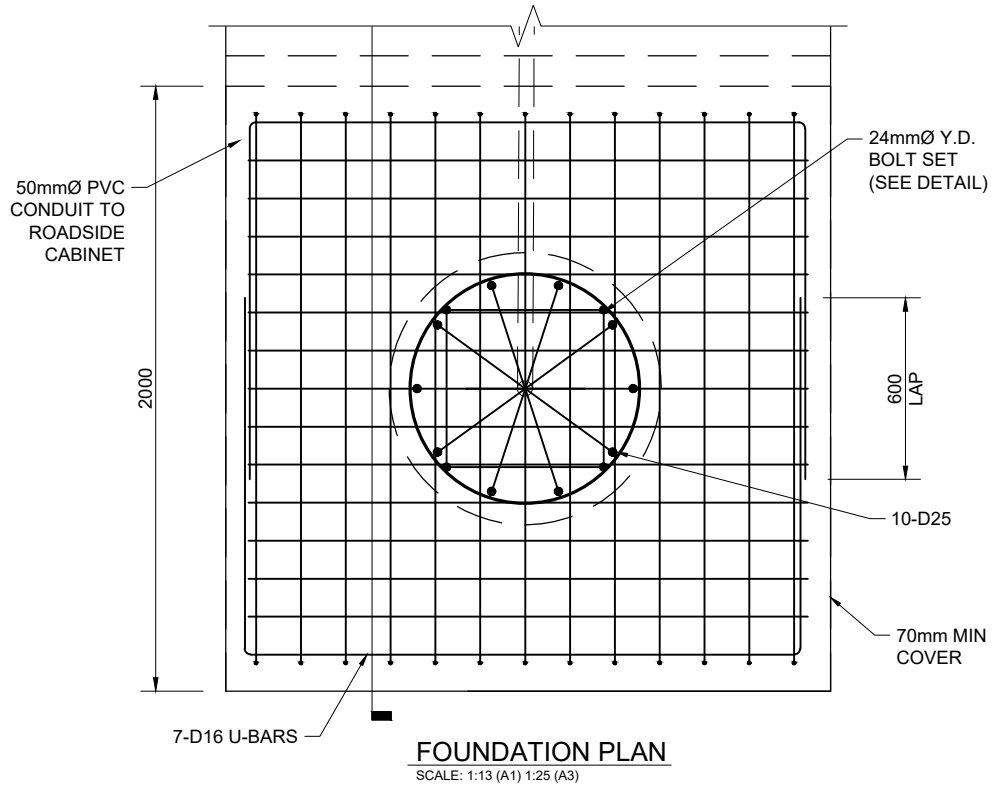


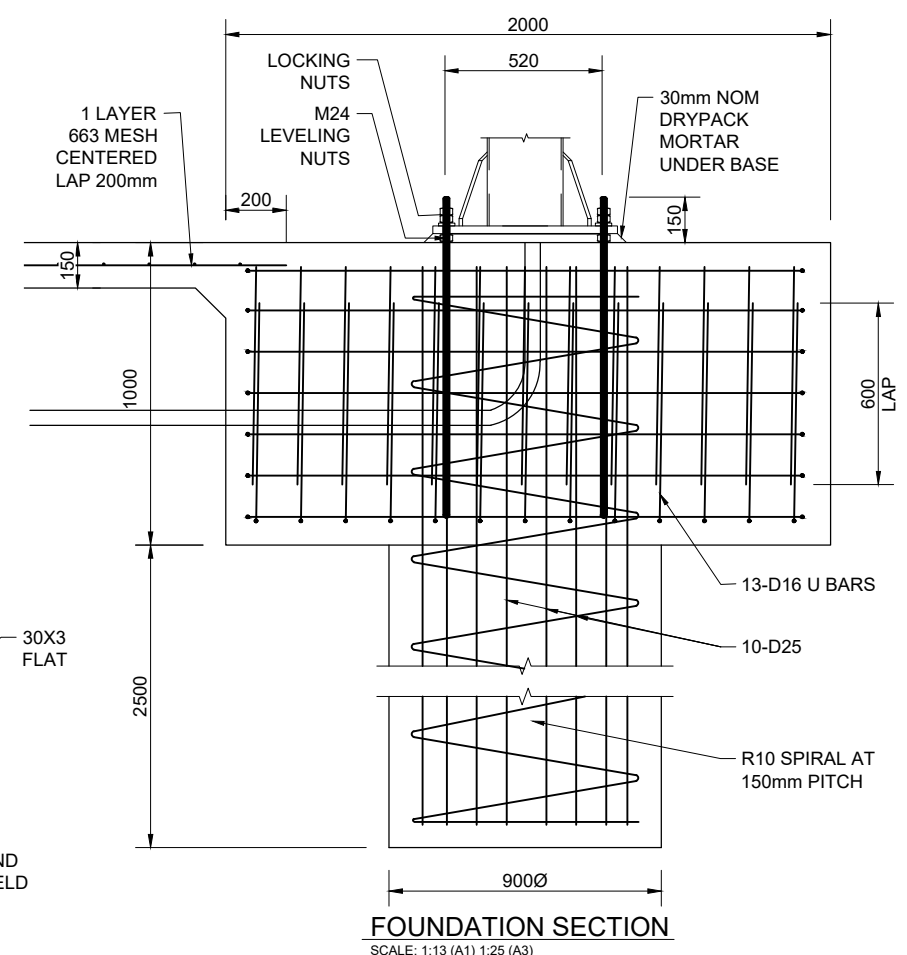
SIGN ASSEMBLY ELEVATIONS
SCALE: 1:25 (A1) 1:50 (A3)



Y.D. BOLT SET
SCALE: 1:10 (A1) 1:20 (A3)



FOUNDATION PLAN
SCALE: 1:13 (A1) 1:25 (A3)

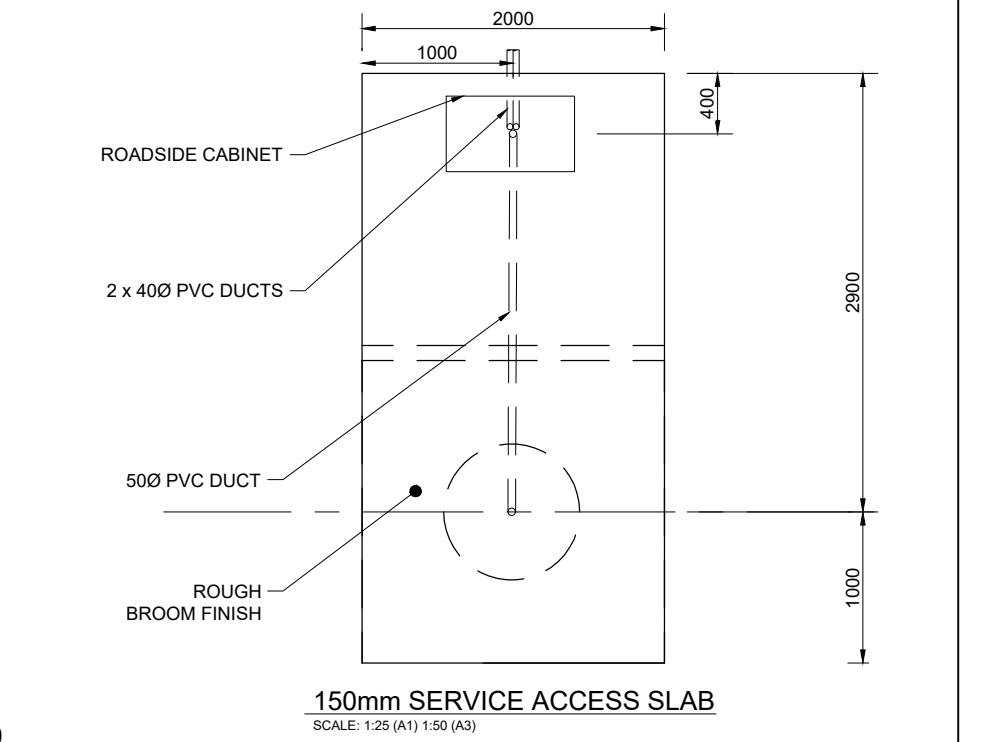


FOUNDATION SECTION
SCALE: 1:13 (A1) 1:25 (A3)

- DESIGN CRITERIA**
1. SITE DESIGN WIND SPEED ≤ 49 m/s (IN ACCORDANCE WITH AS/NZS 1170.2:2002 CLAUSE 2.2).
 2. FOUNDATION CAPACITY STRENGTH REDUCTION FACTOR USED $\phi = 0.45$.
 3. NON-COHESIVE SOILS; MINIMUM FRICTION ANGLE $\phi = 330$ AND SOIL UNIT WEIGHT = 18 kN/m³ (MEDIUM DENSE GRAVELS / SANDS).
 4. COHESIVE SOILS; COHESION VALUE (c) OF AT LEAST 50 kPa (FIRM TO DENSE SILTS / SANDS, NOT ABLE TO BE INDENTED BY THUMB PRESSURE).
 5. IF DOUBT EXISTS IN DETERMINATION OF SUITABLE SOIL BEARING CAPACITY, SEEK AN EXPERT GEOTECHNICAL OPINION.
 6. THIS SIGN IS SUITABLE FOR USE OUTSIDE THE CLEAR ZONE, OR BEHIND A PROTECTIVE BARRIER, OR IN CLEAR ZONE IF SPEED ENVIRONMENT IS < 70 km/h.
 7. VMS ENCLOSURE MASS NOT TO EXCEED 700 kg.

- SITE INSTALLATION NOTES**
8. THE ERECTION OF ALL STEEL WORK SHALL COMPLY WITH SECTION 15 OF NZS 3404:PART 1.
 9. HOLDING DOWN U-BOLTS SHALL BE FABRICATED FROM HIGH TENSILE PLAIN ROUND BARS HAVING MIN $f_y = 640$ MPa (ANSI GRADE 4140) WITH 150 mm OF M24 X 2.0 PITCH THREAD EACH END. EACH BOLT SHALL HAVE A 60mm SQ x 10mm PLATE WASHER ABOVE THE BASE PLATE.
 10. UNDER NO CIRCUMSTANCES PICKLE OR ACID TREAT THE HT U-BOLTS.
 11. ALL BOLTS, WASHERS AND NUTS SHALL BE FULLY HOT DIPPED GALVANISED TO 75 MICRON THICKNESS TO AS/NZS 4680. LOCK NUTS SHALL BE PROVIDED FOR ALL BOLTS.
 12. THE STANDARD DESIGN ALLOWS FOR A POLE OFFSET WITH MAXIMUM DIMENSIONS SHOWN DEPENDANT ON THE VMS ENCLOSURE WIDTH. ANY OFFSET HAS TO BE CONFIRMED FOR THE PARTICULAR SITE.
 13. CONCRETE CONSTRUCTION IS TO BE ACCORDANCE WITH NZS 3109.
 14. CAST IN U-BOLTS USING SUITABLE JIG, PROTECT ALL EXPOSED THREADS.
 15. AFTER THE FRAME SIGN IS ALIGNED, LEVEL NUTS UNDER BASE PRIOR TO DRY PACKING.
 16. THREE LOCATIONS SHALL HAVE DRAW WIRES INSTALLED;
 - i) CROSS ARM FROM CENTRE UPPER HOLE TO EXIT HOLE AT SIDE.
 - ii) TWO DRAW WIRES IN SUPPORT POST, FROM CENTRE OF CROSS ARM DOWN THE POST TO THE ROADSIDE CABINET POSITION AT THE END OF 50mm PVC DUCT.
 - iii) WITHIN 2 x 40mm PVC DUCTS FROM CABINET POSITION TO BEYOND ACCESS SLAB.
 17. USE SMOOTH BORE 50Ø PVC DUCT (NOT "FLEXI-CONDUIT") TO INSIDE OF POST.

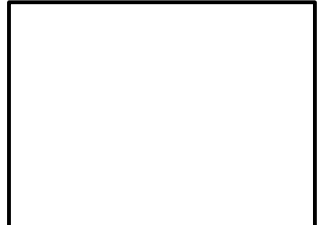
- STEEL FABRICATION NOTES**
18. REFER TO SHEET 6 FOR STRUCTURAL STEEL WORK FABRICATION NOTES



150mm SERVICE ACCESS SLAB
SCALE: 1:25 (A1) 1:50 (A3)

DISCLAIMER: SEE SHEET 000-0000-0-7104-00

NO.	DESCRIPTION	BY	CHECKED	DATE
DESIGN		AFR		03.14
DRAWN		AST	AFR	09.14
REC'D		T.L.HARRIS		11/06/18
APPROVED		P.ROONEY		06/18
R1	ADAPTED FROM 6/1277/41/7604/66R2	TLH	11/06/18	This drawing and its contents are the property of Opus International Consultants Limited. Any unauthorised employment or reproduction, in full or in part, is forbidden.
	AMENDMENT	APP'D	DATE	



TITLE				NZ TRANSPORT AGENCY INTELLIGENT TRANSPORT SYSTEMS STANDARD			
RURAL VMS TYPE A & B SINGLE POST SUPPORT & FOUNDATION DETAILS							
STATUS		STANDARD		FILE		000-000-0-7104-80-R1	
SCALE	AS SHOWN @ A3	PLOT DATE	15/06/18 @ 10:15	FEATURE IDENTIFIER	1/1061/370	CODE	7104
SHEET	80	REVISION	R1				

15/06/2018 9:03