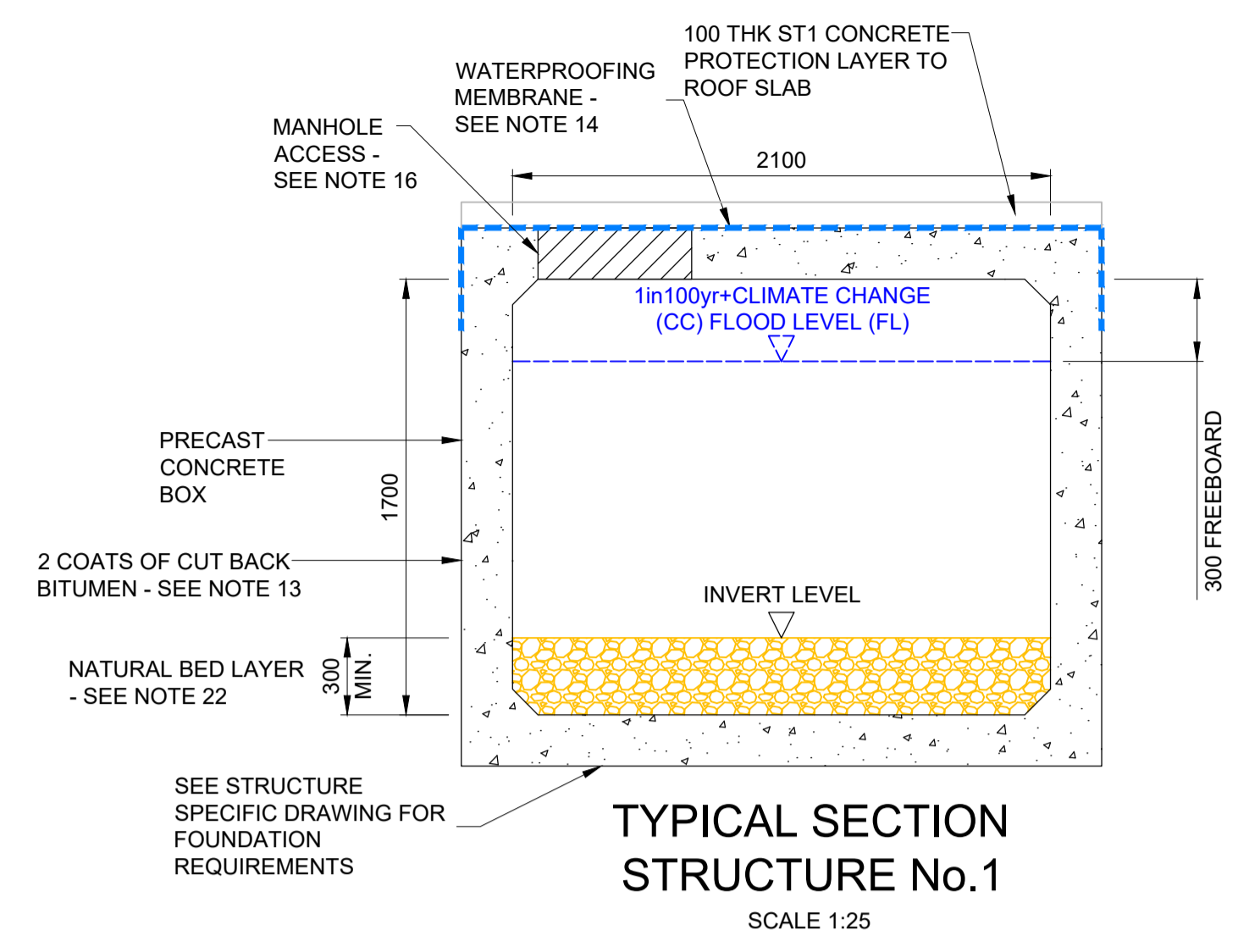


DO NOT SCALE

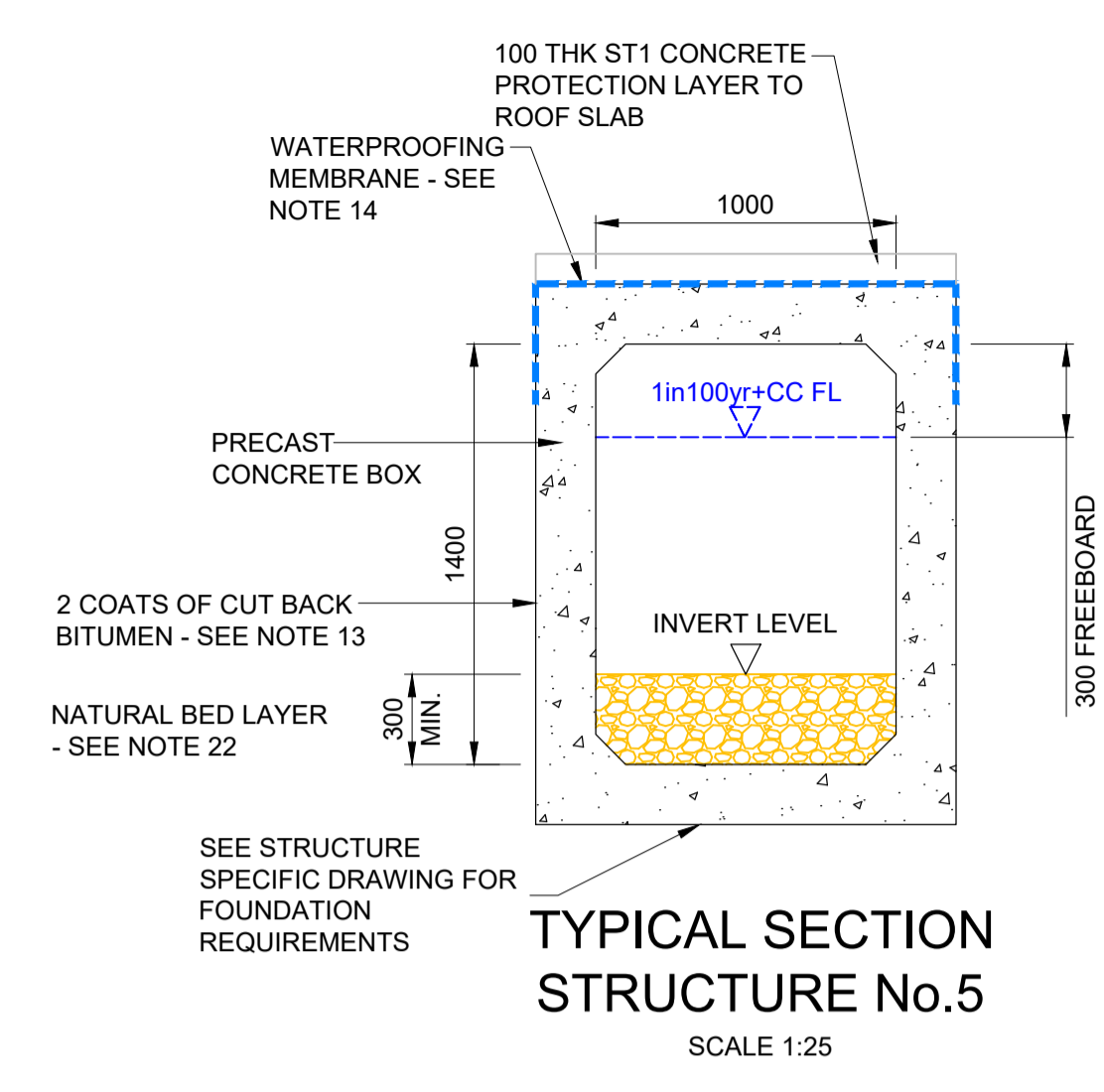
ELEMENT TYPE	DETAILS	STRUCTURES
	STANDARD UNITS	5 & 9
PRECAST REINFORCED CONCRETE BOX	BOX CULVERT WITH INTEGRATED MAMMAL LEDGES	7 & 10
	BOX CULVERT WITH SINGLE MANHOLE ACCESS TO ROOF AND OPENING IN SIDE WALL FOR RC PIPE CULVERT (STR 011)	1
	BOX CULVERT WITH SINGLE MANHOLE ACCESS TO ROOF AND INTEGRATED MAMMAL LEDGES	8
PRECAST REINFORCED CONCRETE WINGWALLS AND HEADWALL	STANDARD WINGWALLS AND HEADWALLS	1 & 9
	INTEGRATED MAMMAL LEDGES TO WINGWALL	7, 8 & 10
PRECAST REINFORCED CONCRETE PIPES	STANDARD UNITS	11 & 12
PRECAST REINFORCED CONCRETE INLET/OUTLET UNITS	STANDARD UNITS	5, 11, & 12

TABLE 2 - CONTRACTOR DESIGNED ELEMENTS - SEE NOTE 7

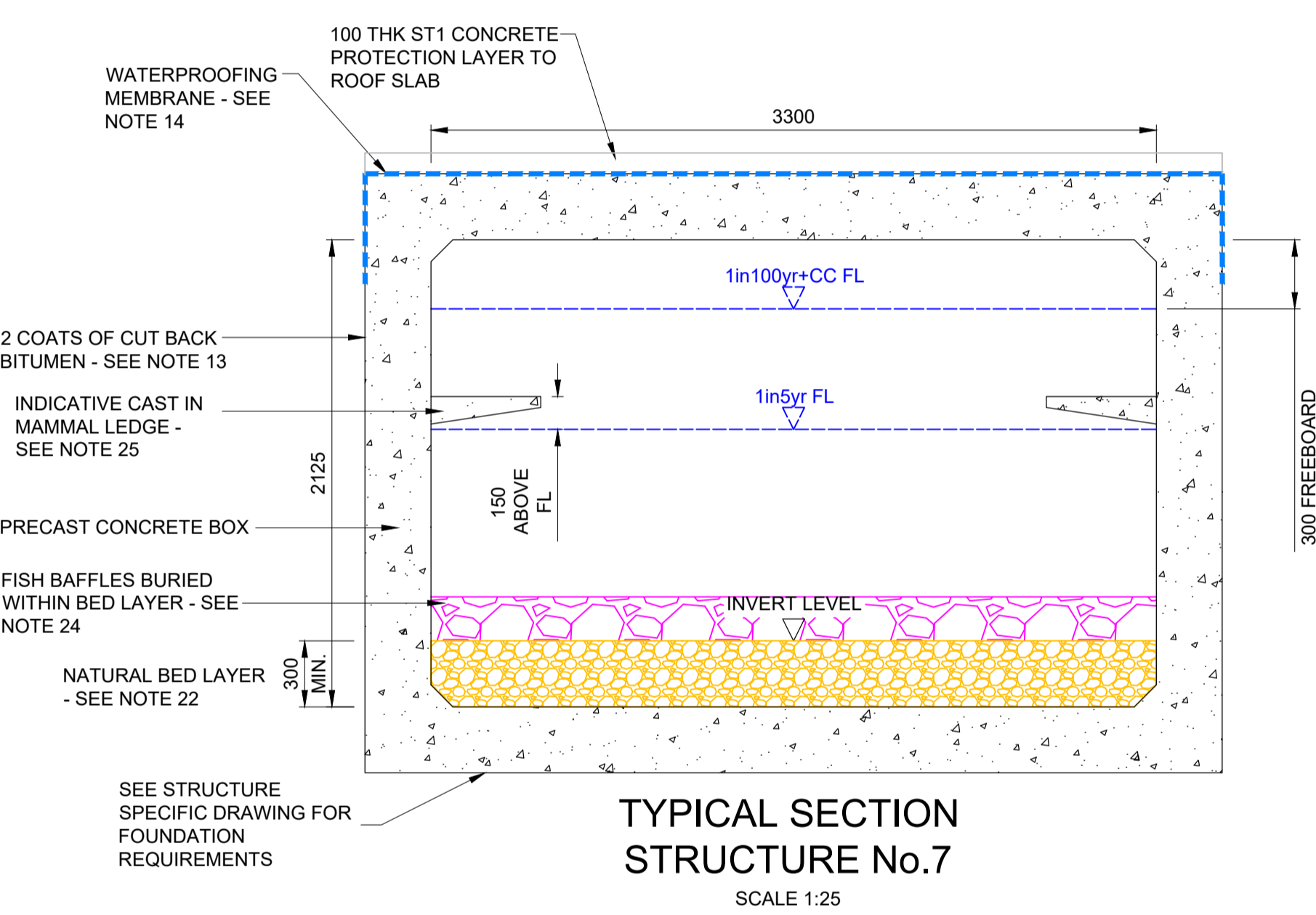
- TIMBER FENCING:**  
17. TIMBER POST AND RAIL FENCING TO BE INSTALLED AS SHOWN ON STRUCTURE SPECIFIC DRAWINGS AND IN ACCORDANCE WITH DRAWING NYKGGD-WSP-SMN-ALL-DR-CB-0002.
- STONE FACING AND STONE WALLS:**  
18. PRECAST CONCRETE ELEMENTS AT INLETS AND OUTLETS TO BE FACED WITH STONEMWORK WHERE SHOWN ON STRUCTURE SPECIFIC DRAWINGS.  
19. 1.25M RAISED STONE WALLS ATOP CULVERT WINGWALLS AND HEADWALLS TO BE PROVIDED WHERE SHOWN ON STRUCTURE SPECIFIC DRAWINGS.  
20. ALL STONEMWORK TO BE IN ACCORDANCE WITH APPENDIX 24/1 OF THE SPECIFICATION AND DETAILS SHOWN ON DRAWING NYKGGD-WSP-SMN-ALL-DR-CB-0002.
- VEHICLE RESTRAINT SYSTEMS:**  
21. N2 VEHICULAR RESTRAINT SYSTEMS ADJACENT TO THE PROPOSED A59 CARRIAGEWAY TO BE INSTALLED AT LOCATIONS SHOWN IN APPENDIX 4/1.
- CULVERT BEDDING AND SCOUR PROTECTION:**  
22. REDUNDANT EXCAVATED SITE ROCK AND WOODY DEBRIS TO BE RE-USED TO FORM THE 300 MIN THICK NATURAL WATERCOURSE BED WITHIN PRECAST BOX CULVERTS. IF SUFFICIENT MATERIAL IS NOT AVAILABLE, OR ADDITIONAL MATERIAL IS REQUIRED, THEN UNCONTAMINATED MATERIAL SUITABLY GRADED TO MATCH THE EXISTING WATERCOURSE BED SHOULD BE USED. ADDITIONAL MATERIALS TO BE AGREED WITH THE NEC PROJECT MANAGER.  
23. SCOUR PROTECTION AT INLETS AND OUTLETS TO BE PROVIDED WHERE SHOWN ON STRUCTURE SPECIFIC DRAWINGS AND IN ACCORDANCE WITH DRAWING NYKGGD-WSP-SMN-ALL-DR-CB-0002.
- ENVIRONMENTAL:**  
24. TO ALLOW SAFE AND UNDISTURBED PASSAGE OF FISH (I.E.: BROWN TROUT LESS THAN 25CM AND COURSE FISH BETWEEN 25 - 50CM) FISH BAFFLES HAVE BEEN PROVIDED IN ACCORDANCE WITH THE ENVIRONMENT AGENCY FISH PASS MANUAL (GEO 0910 BTBP-E-E: NOV. 2010) - SEE STRUCTURE SPECIFIC DRAWINGS FOR FURTHER DETAILS.  
25. TO ALLOW SAFE AND UNDISTURBED PASSAGE OF OTTERS, MAMMAL LEDGES HAVE BEEN SPECIFIED - SEE STRUCTURE SPECIFIC DRAWINGS FOR FURTHER DETAILS.  
26. OTTER FENCING TO BE PROVIDED AS DETAILED ON STRUCTURE SPECIFIC DRAWINGS.



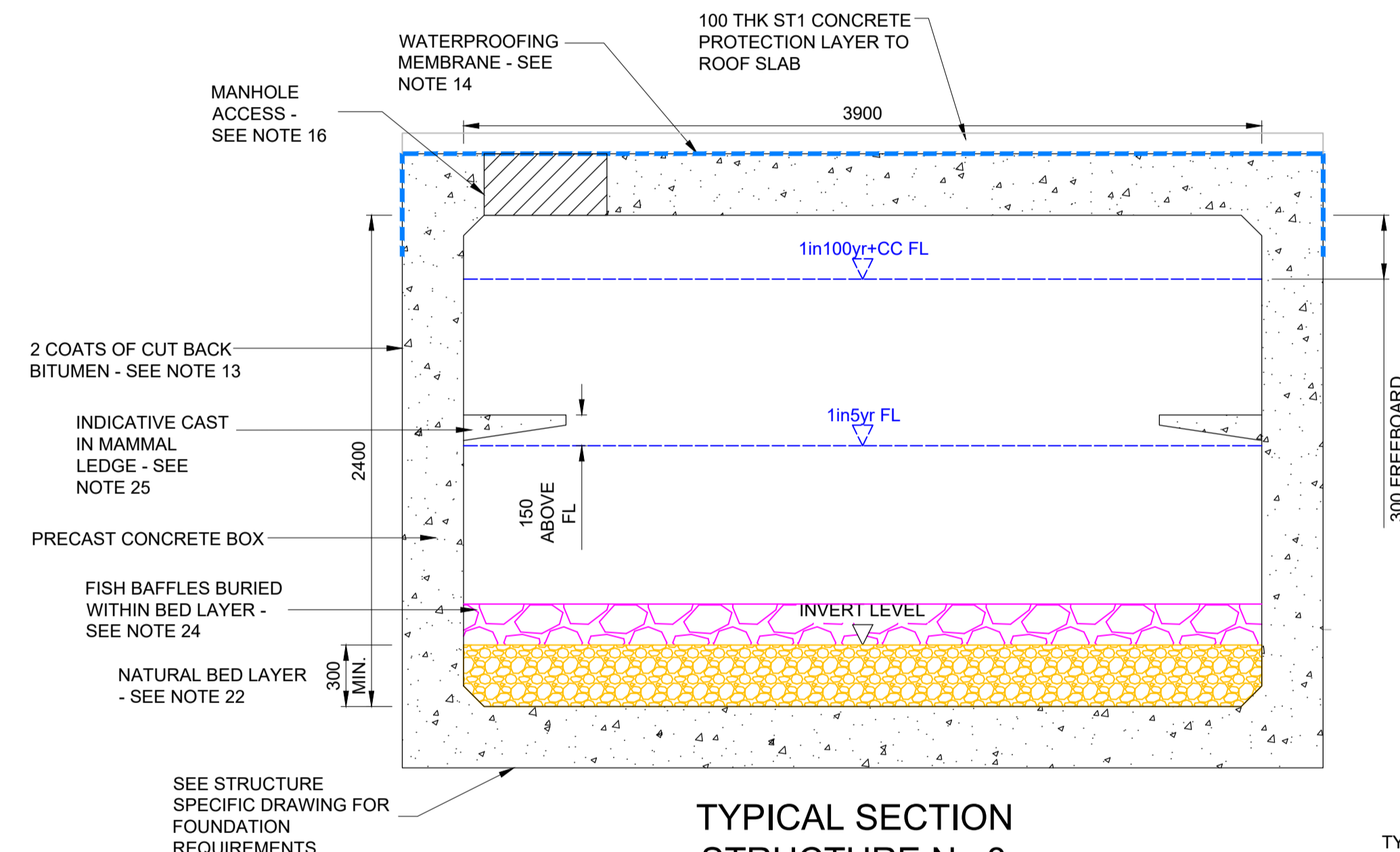
TYPICAL SECTION  
STRUCTURE No.1  
SCALE 1:25



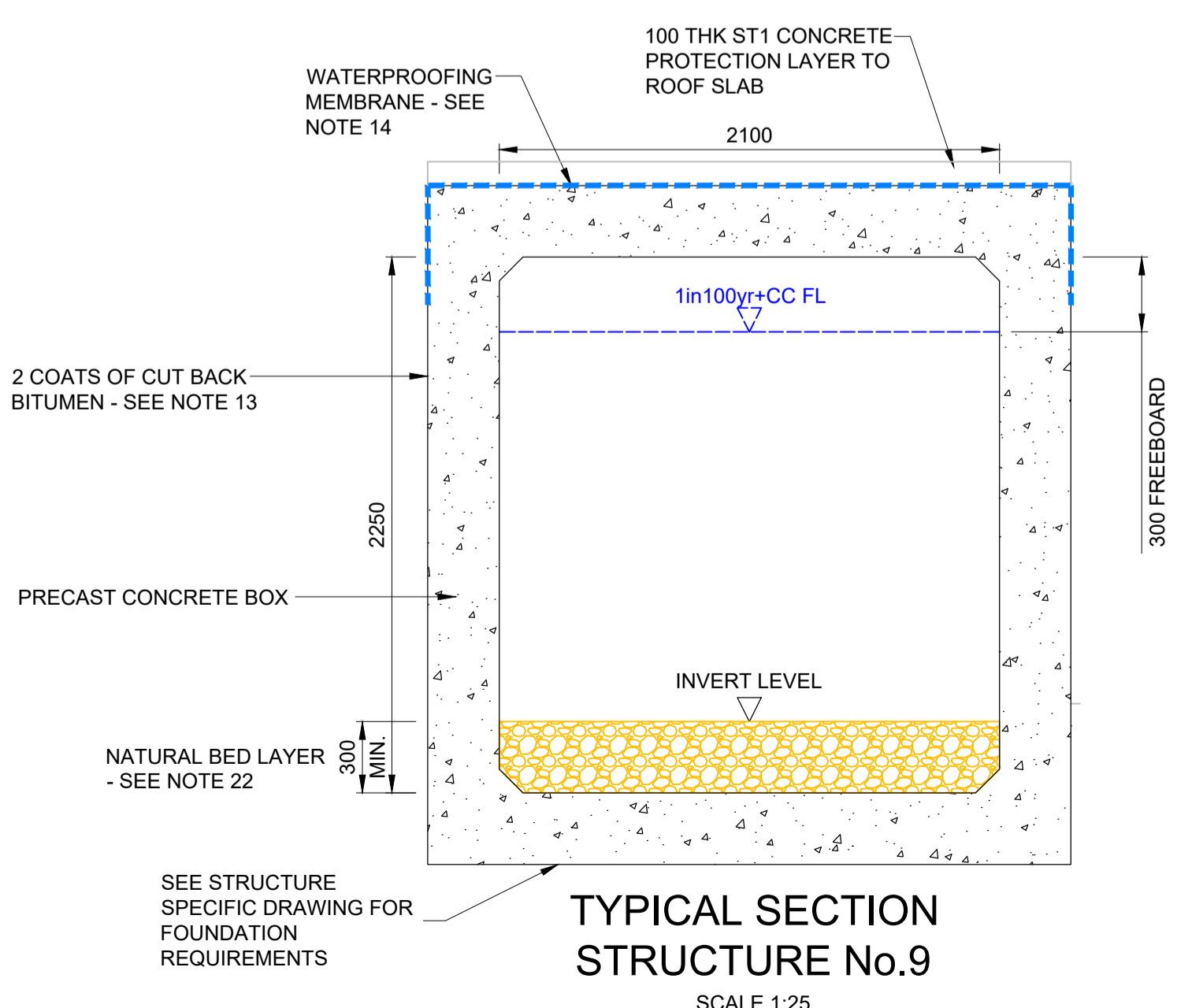
TYPICAL SECTION  
STRUCTURE No.5  
SCALE 1:25



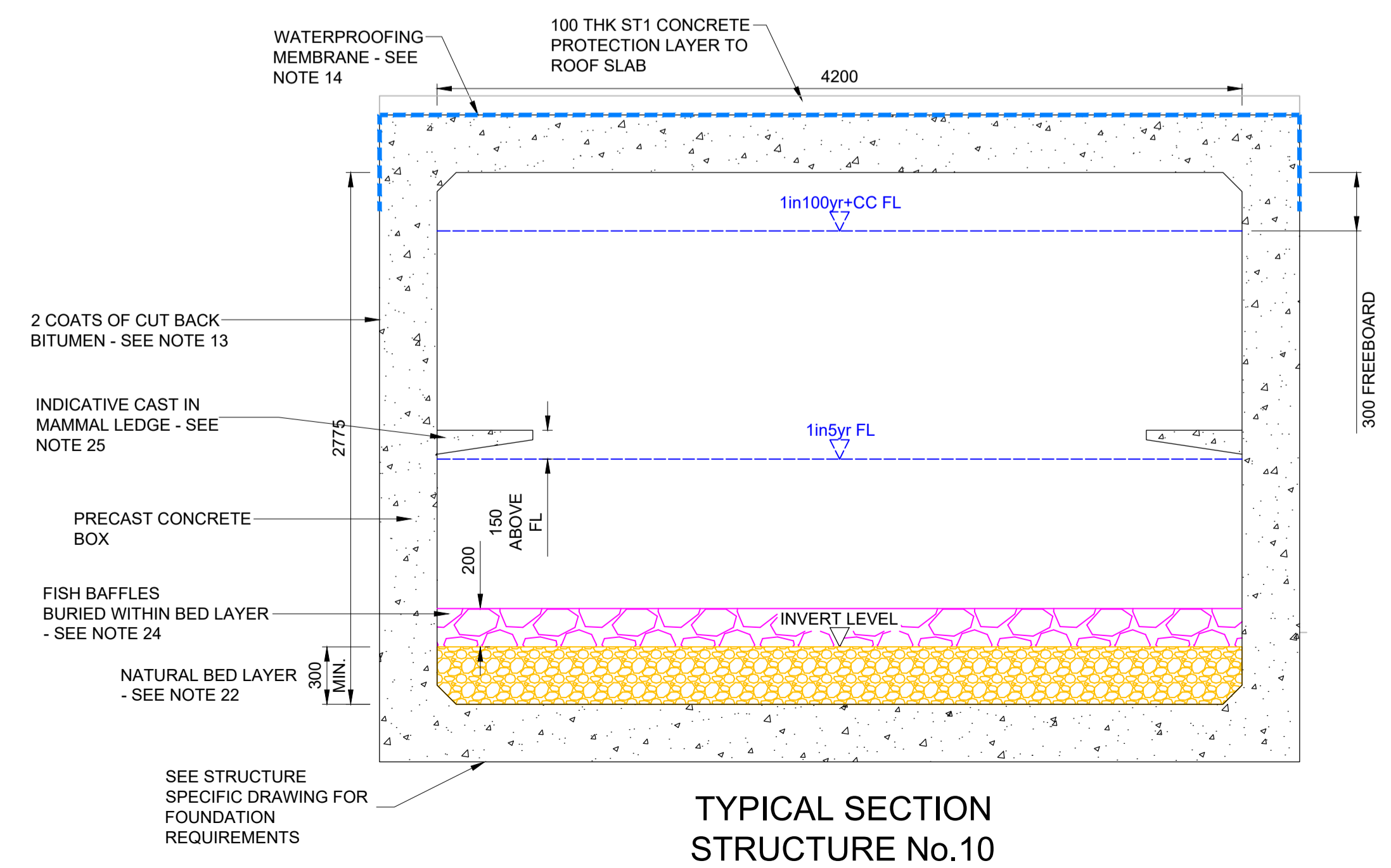
TYPICAL SECTION  
STRUCTURE No.7  
SCALE 1:25



TYPICAL SECTION  
STRUCTURE No.8  
SCALE 1:25



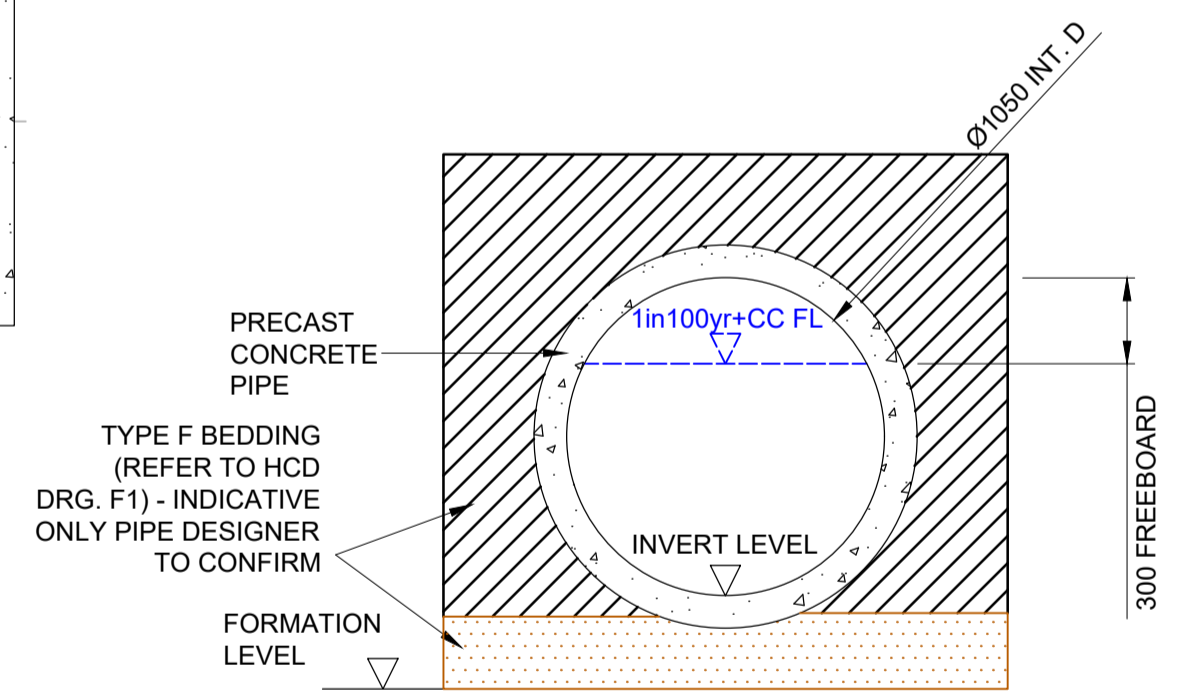
TYPICAL SECTION  
STRUCTURE No.9  
SCALE 1:25



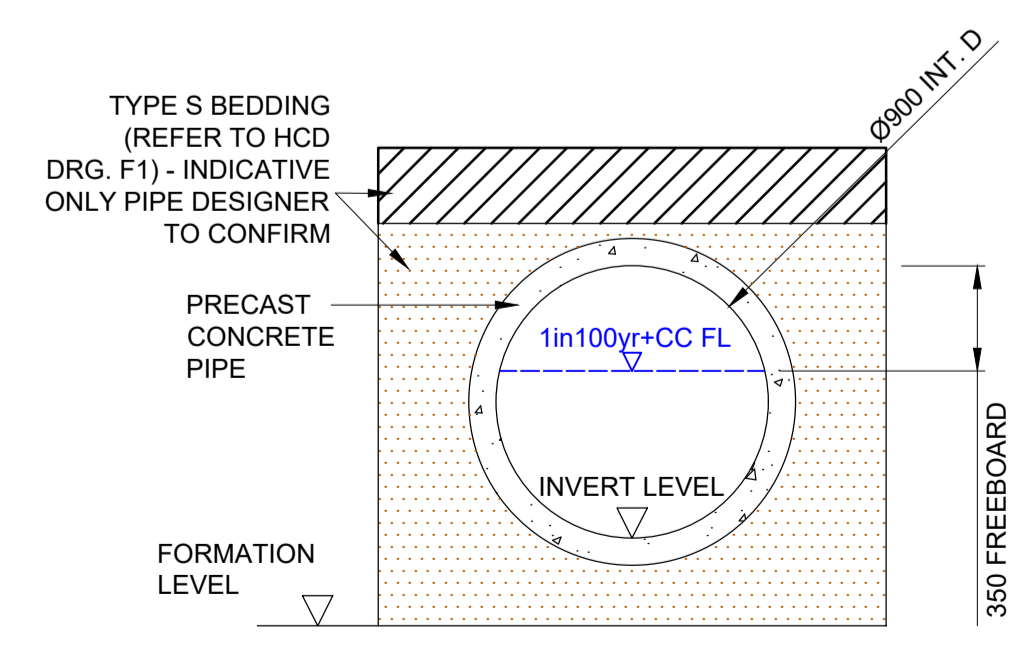
TYPICAL SECTION  
STRUCTURE No.10  
SCALE 1:25

TYPE	STRUCTURE NUMBER	DRAWING NUMBERS
PRECAST REINFORCED CONCRETE BOX	1	NYKGGD-WSP-SMN-ST001-DR-CB-0001 TO 0003
	5	NYKGGD-WSP-SMN-ST005-DR-CB-0001 TO 0003
	7	NYKGGD-WSP-SMN-ST007-DR-CB-0001 TO 0003
	8	NYKGGD-WSP-SMN-ST008-DR-CB-0001 TO 0003
	9	NYKGGD-WSP-SMN-ST009-DR-CB-0001 TO 0003
	10	NYKGGD-WSP-SMN-ST010-DR-CB-0001 TO 0005
PRECAST REINFORCED CONCRETE PIPE	11	NYKGGD-WSP-SMN-ST011-DR-CB-0001 TO 0003
	12	NYKGGD-WSP-SMN-ST012-DR-CB-0001 TO 0003

TABLE 1 - STRUCTURE SPECIFIC DRAWINGS



TYPICAL SECTION  
STRUCTURE No.11  
SCALE 1:25



TYPICAL SECTION  
STRUCTURE No.12  
SCALE 1:25

**SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION**

IN ADDITION TO THE HAZARDS/RISKS NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING, NOTE THE FOLLOWING SIGNIFICANT RESIDUAL RISKS

CONSTRUCTION	RESIDUAL RISK	SEVERITY	LIKELIHOOD	CONTROL MEASURES
C15 - CONFINED SPACES (TANKS, TUNNELS, PITS, CULVERTS)	C15	High	Low	Control Measures
C60 - FLOOD RISK (PLUVIAL)	C60	High	Low	Control Measures
C65 - UNDERGROUND TELECOM	C65	High	Low	Control Measures

**SAFETY, HEALTH AND ENVIRONMENTAL SYMBOL LEGEND**

Symbol	Description
⚠	INDICATES A RESIDUAL RISK AS A WARNING

CD	Date	Description	By	Chk'd	App'd
CD1	21/07/2023	ISSUED FOR CONSTRUCTION	SH	DM	DM

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**North Yorkshire County Council**

Project Title: **A59 KEX GILL DIVERSION**

Drawing Title: **TYPICAL CULVERT DETAILS SHEET 1 OF 2**

Scale	Drawn	Checked	Approved	Authorised
AS SHOWN	LS	IM	HM	HM
Original Size	Date	Date	Date	Date
A1	31/01/20	31/10/20	31/10/20	31/10/20
Drawing Status	Suitability			
FOR CONSTRUCTION ISSUE	A1			
Drawing Number	Project	Originator	Volume	Project Ref. No.
NYKGGD	WSP	SMN		
Location	Type	Role	Number	Revision
ALL	DR	CB	0001	C01

