


SECTION A-A
(SCALE 1:150)

NOTES

- ALL DIMENSIONS ARE IN MILLIMETRES AND LEVELS ARE IN METRES UNLESS OTHERWISE SPECIFIED.
- DIMENSIONS ARE NOT TO BE SCALED. ONLY WRITTEN DIMENSIONS SHALL BE FOLLOWED.
- THE PROPOSED 3 LANE BRIDGE HAS BEEN DESIGNED FOR 3 LANE CLASS A OR 1 LANE CLASS A+70R OR 1L CLASS 70 R+ CLASS A OR SPECIAL VEHICLE WHICHEVER GOVERNS (FUTURE EXPANSION)
- GRADE OF CONCRETE FOR VARIOUS COMPONENTS SHALL BE AS MENTIONED UNDER: -
 - ABUTMENT & ABUTMENT CAP ----- M35
 - PILE AND PILE CAP ----- M35
 - RCC CRASH BARRIER ----- M40
 - RCC DECK SLAB ----- M35
 - RCC RETAINING WALL ----- M35
 - PEDESTAL BELOW BEARING ----- M40
 - APPROACH SLAB ----- M30
 - SEISMIC ARRESTOR ----- M35
 - LEVELLING COURSE ----- M10
- STEEL REINFORCEMENT SHALL CONFORM TO IS:1786 (GRADE DESIGNATION Fe-500D)
- ALL STRUCTURAL ROLLED SECTIONS SHALL CONFORM TO IS: 2062 (GRADE Fe: 410WA)
- STRIP SEAL TYPE EXPANSION JOINTS OF PROVEN QUALITY SHALL BE PROVIDED.
- BACK FILLING BEHIND ABUTMENTS SHALL CONSIST OF SELECTED EARTH CONFIRMING TO APPENDIX 6 OF IRC: 78-2000 HAVING PROPERTIES $\phi=30^\circ$ (MINIMUM), AND $\gamma=1.76-1.8$ T/CUM.
- WEEP HOLES SPACED AT 1000 c/c BOTH HORIZONTALLY AND VERTICALLY SHALL BE PROVIDED IN A STAGGERED MANNER IN ABUTMENTS AND RETURN WALLS FROM 500mm GL TO ABUTMENT CAP BOTTOM.
- ALL WELDING SHALL CONFORM TO IS:816-1969 AND IS:1323-1982.
- MATERIAL & FABRICATION FOR ALL HIGH STRENGTH FRICTION GRIP BOLTS, NUTS & WASHERS SHALL CONFORM TO IS: 4000-1992, IS: 3757-1985, IS: 6623-1985 & IS: 6649-1985.
- FABRICATION DRAWING SHOULD BE PREPARED & GET APPROVED FROM ENGINEER-IN-CHARGE BEFORE CONSTRUCTION.
- HIGH STRENGTH ORDINARY PORTLAND CEMENT CONFORMING TO IS : 12269 AND IS : 8112 OR ORDINARY PORTLAND CEMENT CONFORMING TO IS: 269 CAPABLE OF ACHIEVING THE REQUIRED DESIGN STRENGTH SHALL ONLY BE USED.
- 65mm TH. WEARING COURSE COMPRISING OF 40MM BITUMINOUS CONCRETE OVERLAID WITH 25MM THICK BITUMEN MASTIC LAYER SHALL BE PROVIDED IN CONFORMITY WITH SECTION 500 OF MORTH SPECIFICATIONS.
- MINIMUM 600 mm EMBEDMENT OF FOUNDATION IN HARD ROCK AND IN CASE OF ROCK OTHER THAN HARD ROCK MINIMUM 1500 mm EMBEDMENT OF FOUNDATION IN ROCK SHALL BE PROVIDED AS PER SECTION 700 OF IRC 78:2014
- IN CASE OF FOUNDATION IN ROCK, TENCHES AROUND THE FOOTING SHALL BE FILLED UP WITH M15 GRADE CONCRETE UP TO THE TOP OF ROCK
- THIS STRUCTURE IS ON SEISMIC ZONE V
- ALL DIMENSIONS AND FOUNDATION DETAILS SHOWN IN DRAWING ARE TENTATIVE SUBJECT TO CHANGE DURING DETAIL DESIGN.
- FOUNDATION DETAILS SHOWN IN THE DRAWING ARE INDICATIVE ONLY. THIS MAY UNDERGO CHANGE DURING DETAIL DESIGN.
- SLOPE PROTECTION TO BE DONE AS PER SITE CONDITION WITH STONE IN GABION OVER 200 THK FILTER MATERIAL.
- STONE PITCHING AND FILTER MATERIAL UNDER STONE PITCHING SHALL BE AS PER MORTH SPECIFICATION SECTION 2500 AND IRC: 89. WEIGHT OF SINGLE STONE SHOULD NOT BE LESS THAN 40KG

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| | | | | Project Title | <div>This drawing is the property of AGNITIO INFRASTRUCTURE PROJECTS PVT LTD and must not be passed on to any person or body not authorised by us to receive it nor be copied or otherwise made use of either in full or in part by such person or body without our prior permission in writing.</div> <div>Original Size: A2</div> <div>Path -</div> <div>Plotting Scale:</div> | <div>Client</div> <div></div> <div>National Highways & Infrastructure Development Corporation Ltd</div> | Drawing Title: GENERAL ARRANGEMENT DRAWING BRIDGE FOR 1X81.5M AT (CH.4+020) | | | | <u>CONSULTANT</u> | | |
| | | | | Consultancy Services for carrying out Feasibility Study, Preparation of Detailed Project Report (DPR) and providing pre-construction services in respect of 4 Laning of Kohima Bypass connecting NH-39 (New NH-02), NH-150 (New NH-02), NH-61 (New NH-29) and NH-39 (New NH-02) on Engineering, Procurement and Construction (EPC) mode in the state of Nagaland | | | Drawing No.:HEC-AIPPL/NHIDCL/KB/GAD/ S-101 | | | | Sheet : 02 OF 02 | | HIGHWAY ENGINEERING CONSULTANT IN ASSOCIATION WITH AGNITIO INFRASTRUCTURE PROJECTS PVT LTD |
| | | | | | | | Scale :- NTS | | | | | | |
| Revision Details | | | | Chk By | | | Date | Suffix | Drn YASHPAL | Dgn. GAURAV SINGH | Appd M.P.SINGH | Date SEP.-2018 | |