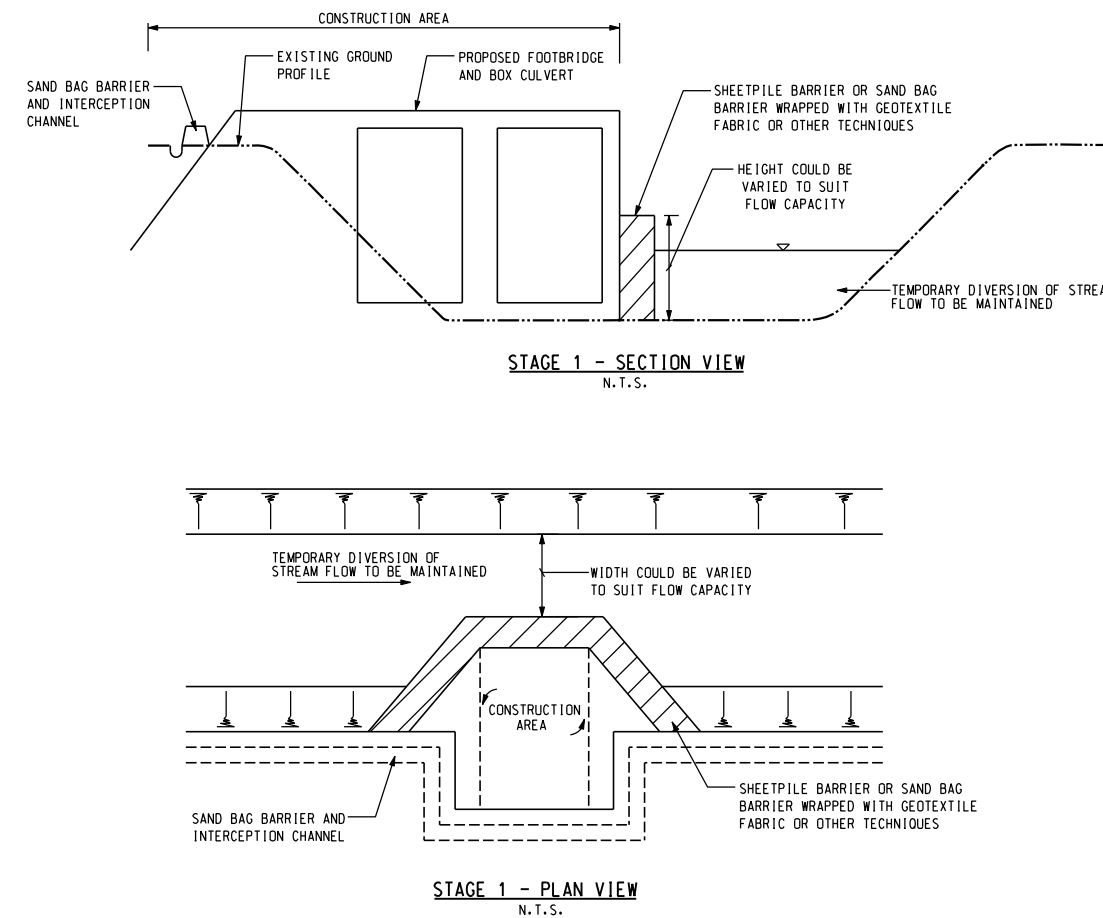


CONSTRUCTION OF DRAINAGE CHANNEL

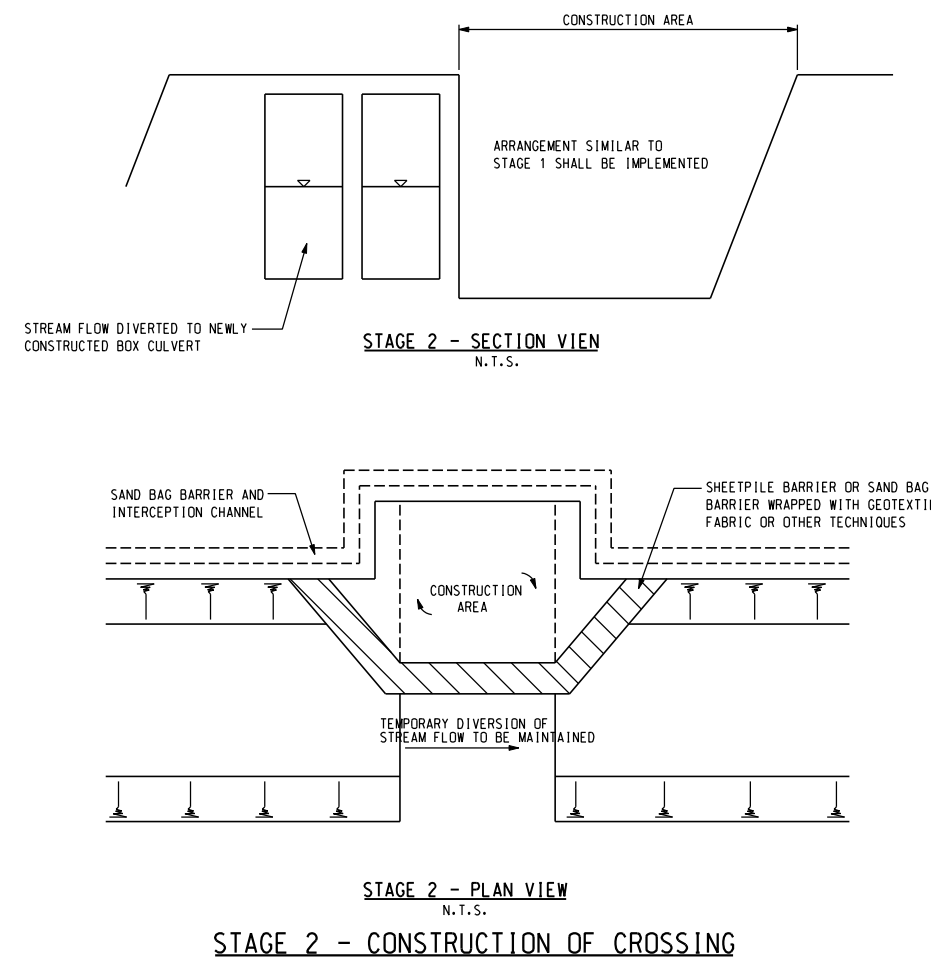
NOTE: SIMILAR ARRANGEMENT WILL BE IMPLEMENTED FOR THE OPPOSITE BANK IF WORKS ARE REQUIRED.



STAGE 1 - CONSTRUCTION OF CROSSING

PARTICULAR NOTES FOR MITIGATING DRAINAGE IMPACT DURING CONSTRUCTION:

1. THE FOLLOWING MEASURES ARE PROPOSED FOR MITIGATING THE ADVERSE DRAINAGE IMPACT ARISING FROM THE PROPOSED CONSTRUCTION METHOD:
 - (A) CONSTRUCTION WORKS SHALL BE CARRIED OUT IN DRY SEASON ONLY. IF THE CONSTRUCTION WORKS CANNOT COMPLETE IN ONE DRY SEASON, CONSTRUCTION WORKS SHALL BE SUSPENDED. ALL CONSTRUCTION PLANT AND MATERIALS SHALL BE REMOVED AND THE BOX-CULVERT AND CHANNEL SHALL BE OPENED FOR DRAINAGE DURING THE INTERMEDIATE WET SEASON. ALTERNATIVELY, THE CONTRACTOR HAS TO SHOW THAT THE PARTIALLY COMPLETED BOX-CULVERT HAS SUFFICIENT CAPACITY TO CONVEY A DESIGN OF EQUIVALENT TO THE FLOW OF A 10-YEARS RETURN PERIOD RAINFALL EVENT.
 - (B) REGULAR MONITORING SHALL BE CARRIED OUT AND CORRECTIVE ACTIONS SHALL BE TAKEN IF THE PERFORMANCE OF THE TEMPORARY DRAINAGE SYSTEM FALLS BELOW ACCEPTABLE LEVEL.
2. THE FOLLOWING MEASURES ARE PROPOSED WHEN HEAVY RAINFALL IS LIKELY TO OCCUR DURING CONSTRUCTION:
 - (A) SILT TRAPS, ROCK BUNDS, CHANNELS AND MANHOLES IN THE VICINITY OF THE SITE SHALL BE INSPECTED AND MAINTAINED CLEAR FROM DEBRIS. THE DEPOSITED SILT AND GRIT SHALL BE REMOVED REGULARLY.
 - (B) TEMPORARY EXPOSED SLOPE SURFACES SHALL BE COVERED BY TARPULIN OR SIMILAR FABRIC.
 - (C) TEMPORARY ACCESS ROAD SHALL BE PROTECTED BY CRUSHED STONE OR GRAVEL.
 - (D) INTERCEPTING CHANNELS SHALL BE PROVIDED (E.G. ALONG THE CREST/EDGE OF EXCAVATION) TO PREVENT STORM RUNOFF FROM WASHING ACROSS EXPOSED SOIL SURFACES.
 - (E) TRENCHES SHALL BE DUG AND BACKFILLED IN SHORT SECTIONS. MEASURES SHALL BE TAKEN TO MINIMIZE THE INGRESS OF RAINWATER INTO TRENCHES.
3. THE FOLLOWING MEASURES ARE TO BE UNDERTAKEN WHEN HEAVY RAINFALL IS IMMINENT OR FORECASTED:
 - (A) SILT TRAPS, ROCK BUNDS, CHANNELS AND MANHOLES SHALL BE CHECKED TO ENSURE THAT THEY ARE FUNCTIONING PROPERLY.
 - (B) OPEN STOCKPILES OF CONSTRUCTION MATERIALS, SUCH AS AGGREGATES, SAND AND FILL MATERIALS ON SITE SHALL BE COVERED BY TARPULIN OR SIMILAR FABRIC.
 - (C) ALL TEMPORARY COVERS TO SLOPES AND STOCKPILES WILL BE INSPECTED TO ENSURE THEY ARE SECURED.
 - (D) ALL PUMPING SYSTEMS SHALL BE TESTED, PRIMED, RE-FUELED AND FILTERS CLEARED.
 - (E) PROTECTION EQUIPMENT, SUCH AS SANDBAGS, SHALL BE DEPLOYED ALONG BOUNDARY AND WATER PUMPS SHALL BE PROVIDED AT LOCATIONS WHERE FLOODING LIKELY HAPPEN.
4. THE FOLLOWING MEASURES ARE TO BE TAKEN TO PREVENT OBSTRUCTION TO EXISTING DRAINAGE SYSTEM:
 - (A) GOOD SITE PRACTICES SHALL BE EMPLOYED. NO PLANT OR CONSTRUCTION MATERIALS SHALL BE LEFT IN THE EXISTING STREAMCOURSE / CHANNEL.
 - (B) SILT REMOVAL FACILITIES, CHANNELS AND MANHOLES SHALL BE CHECKED TO ENSURE THAT THEY ARE FUNCTIONING PROPERLY.
 - (C) THE CONTRACTOR SHALL CONDUCT SITE INSPECTION WHEN HEAVY RAINSTORM OR TYPHOON IS FORECASTED BY THE HONG KONG OBSERVATORY.
5. THE CONTRACTOR IS REQUIRED TO ENSURE AT ALL TIMES THAT THE EXISTING DRAINAGE AROUND THE SITE IS NOT BLOCKED AND DRAINAGE PERFORMANCE IN THE VICINITY OF THE SITE IS NOT AFFECTED BY THE CONSTRUCTION WORKS.



STAGE 2 - CONSTRUCTION OF CROSSING

| Revision | Date | Description | | | Initial |
|----------|-------|-------------|---------|-------|---------|
| | | Designed | Checked | Drawn | |
| Initial | MC | WKC | HH | PKL | |
| Date | 11/08 | 11/08 | 11/08 | 11/08 | |

Approved

project
HANG HAU TSUEN CHANNEL AT LAU FAU SHAN

Drawing Title
SCHEMATIC DIAGRAM OF TYPICAL TEMPORARY DRAINAGE MEASURES DURING CONSTRUCTION STAGE

Plan Register No. FIGURE 5.3 Revision -

Scale N.T.S.

土木工程拓展署
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博威工程顧問有限公司

Plot Date - 12/24/2008