



A

TECHNICAL REPORT

ON

SIWES

(STUDENT INDUSTRIAL WORK EXPERIENCE SCHEME)

**AT OYO WEST LOCAL GOVERNMENT, OJONGBODU OYO, OYO
STATE.**

PREPARED BY

AROON KHADIJAT AGBEKE

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**SUBMITTED THE DEPARTMENT OF CIVIL ENGINEERING,
INSTITUTE OF TECHNOLOGY, KWARA STATE POLYTECHNIC
ILORIN, NIGERIA.**

**IN PARTIAL FULFILMENT TO REQUIREMENTS FOR THE AWARD
OF NATIONAL DIPLOMA IN CIVIL ENGINEERING.**

AUGUST 2024

DEDICATION

This report is dedicated to the Almighty God and my beloved parents Mr. and Mrs. AROON for their supports and unconditional love.

CERTIFICATION

This is to certify that the work during the four months industrial training was carried out by Aroon Khadijat Agbeke of the department of Civil Engineering at Nigeria institute of Technology Ilorin kwara state, under the supervision of MR Adedokun G.G, with the report presented to the department of Civil engineering, kwara state polytechnic ilorin, Nigeria, during the 2023/2024 Students Industrial Work Experience Scheme (SIWES).

ENGR. SALAUDEEN MASHOOD A.
SUPERVISOR

ENGR. NAALLAH
HOD

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ABOUT SIWES

The Student Industrial Work Experience scheme (SIWES), also known as Industrial Training is a compulsory skill training programme designed to expose and prepare students of Nigeria

Universities, Polytechnics, college of Education, College of Agriculture and College of Technology, for the industrial work situation they are likely to meet after graduation.

SIWES introduction, initiation and design was done by the Industrial Training Fund in 1993 to acquaint students with the skills of handling employer's equipment and machinery.

The Industrial Training Fund solely funded the scheme during its formative years. However, due to financial constraints, the fund withdrew the scheme in 1978.

CHAPTER ONE

DESCRIPTION OF WORKDONE

CONSRUCTION OF SINGLE SHELL BOX CUL

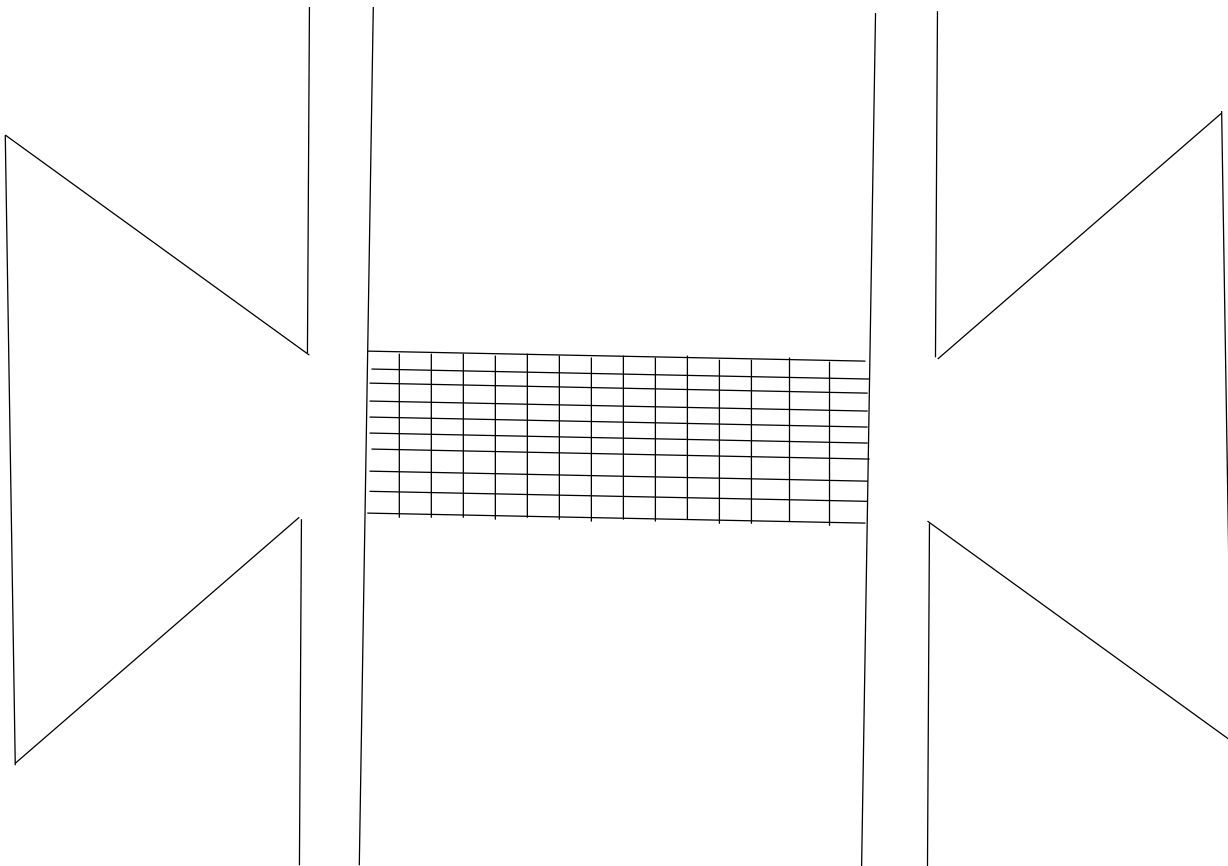
Clearing and removing from the site all top soil materials with bulldozer machine

Setting out and excavation commence

Excavation for foundation trench not exceeding 1.0m depth to receive concrete for blinding.

Placing and compacting play in-stitu mass concrete (1:3:6) mix for blinding.

Arrangement and bending of bow for base and side wall.



BOX CULVERT

Casting of in-stitu concrete (1:3:6)4-20mm aggregate as concrete base slab

Casting of base with play in-stitu material (1:3:6) mix

Placing and construction of wooding form works for the side wall (Abortment)

Placing and constructed wooding form work in position and well brace.

Casting of institu concrete (1:2:4) aggregate to the side wall.

Complication of casting in-stitu (1:2:4) aggregate to the side wall abortment

Allow for concrete setting

Allow for concrete setting

Removal of wooding form work from the culvert side wall

Construction of wooding form work to the deck of the culvert

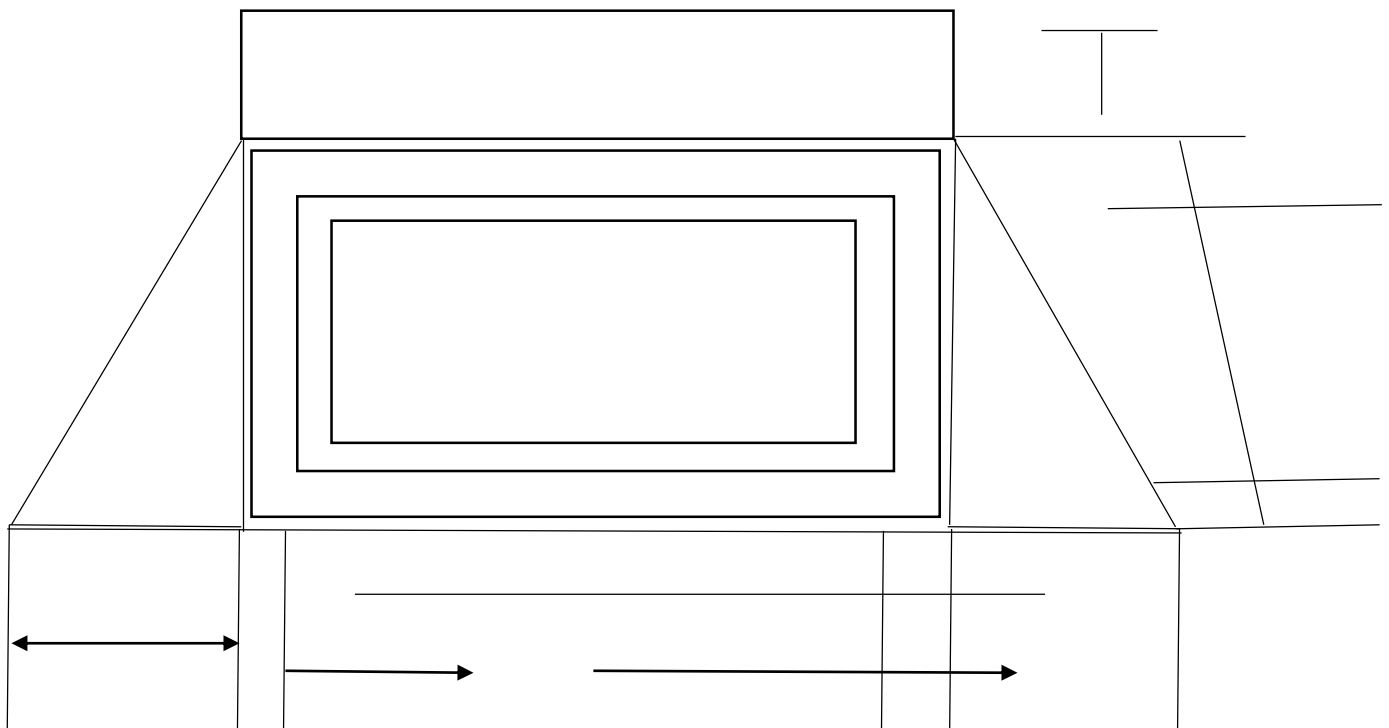
Arrangement of iron rod to the deck of the culvert

Casting of in-stitu concrete (1:2:4) aggregate to the deck of culvert

Clearing of debis along the water ways and arrangement or staking of wooding form work for re-used

Bulldozing and widening of haruna village road by the use of local government bulldozer.

Dredging of Obanako River by the use of local government excavator



BOX CULVERT SECTION

CHAPTER TWO

CONSTRUCTION OF THREE{3} CLASSROOM BLOCK AT OLOODU OBANANKO OYO

Clear site of all shrubs, trees, and grasses which not require

Supply of materials to the site e.g cement, blocks, sand, water, gravel.

Excavate and remove from site vegetable top soil

Excavate trench for foundation

Setting out of the building commerce

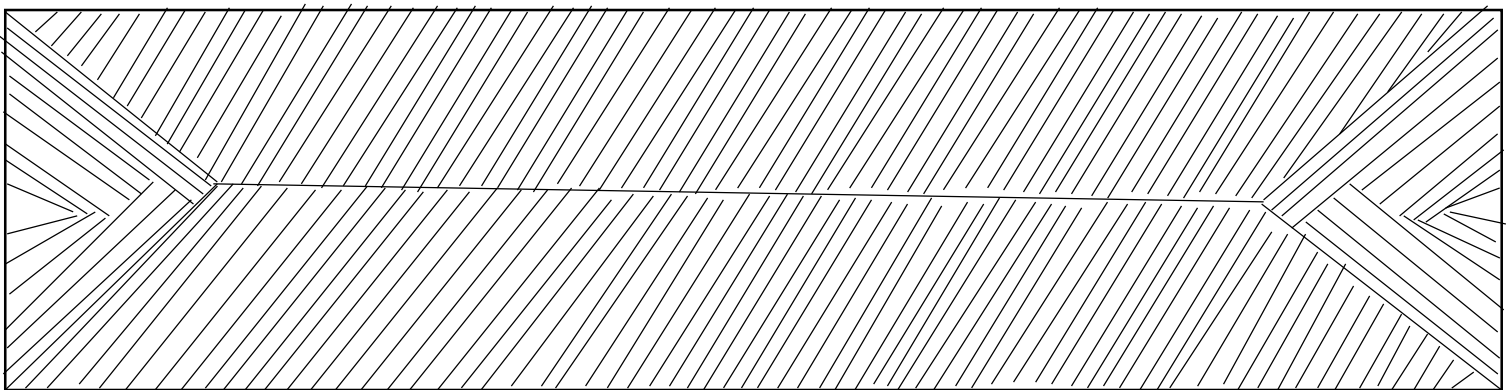
Level and compact bottom of excavation to receive concrete (blinding)

Poured concrete [1:3:6] against the face of excavation as binding to receive block

Poured concrete [1:3:6] against the face of excavation as binding to receive block

Setting and laying of foundation with mortar mix (1:6)

Setting and laying of foundation block (225m) with mortar of mix (1:6)



ROOF PLAN

Filling of foundation with approved laterite and well compacted to make up foundation

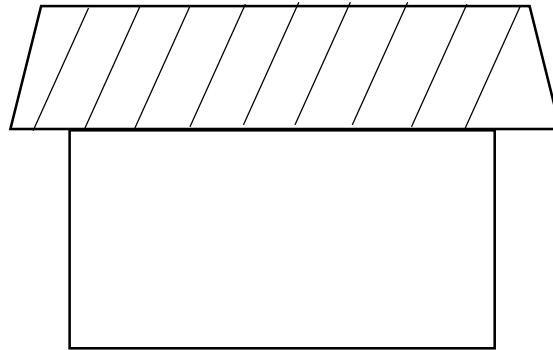
Setting and laying of 225m block mortar mix (1:6) from foundation level (super structure)

Setting and of 225m block mortar mix [1:6] from foundation level [super structure]

Setting and laying of 225m block mortar mix (1:6) from foundation level[super structure]



HEAD PAN



SIDE VIEW

Construction of wooden form work for the lintel and columns

Construction of wooden form work for the lintel and columns

Fix in position reinforcement into lintel and columns

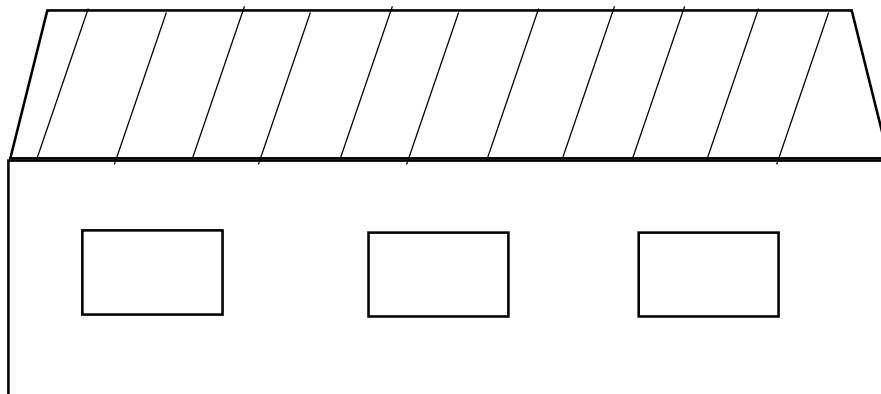
Casting of lintel and columns with mix ratio concrete of (1:2:4)

Setting and laying of block to take level of the building preparation for the roofing

Setting and laying of block to take level of the building preparation for the roofing

Setting and laying of block to take level of the building preparation for the roofing

Flooring of foundation level of the class room



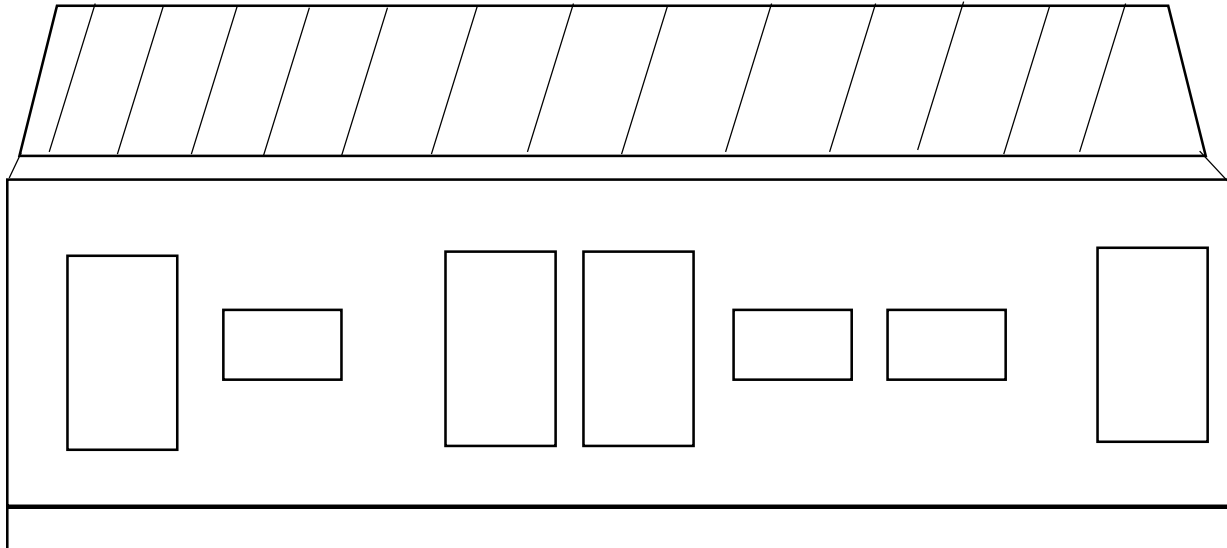
BACK VIEW

Roofing of the building and construction of the nogging to receive asbestor celling board

Fixing of doors and window frame

Plastering and rending to wall commerce with mortar (1:6)

Plastering and rending to wall commerce with mortar (1:6)

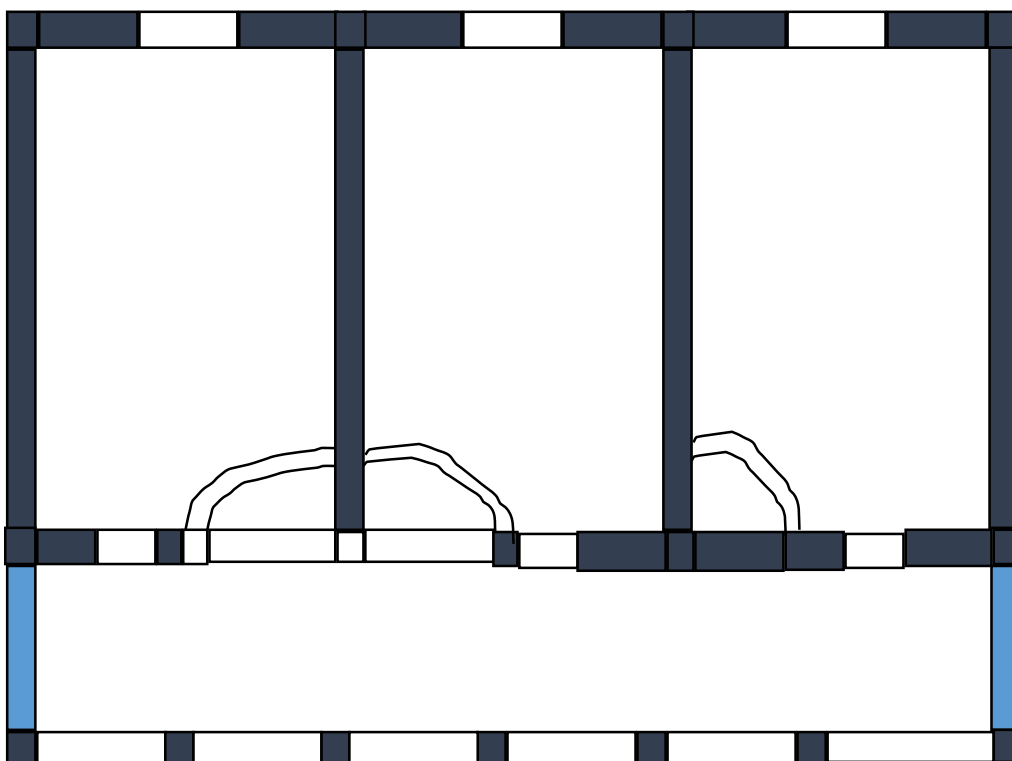


FRONT VIEW

Fixing of doors to the door frame and louvers blades to the louvers frame respectively

Allow the building to dry up in preparation for painting work

Desliting of line drainage at Irewole road Oyo west local government



CLASSROOM PLAN



SHOVEL & WHEELBARROW



CLASSROOM

CHAPTER THREE

CONSTRUCTION OF RING CUIVERT AT LAKONU VILLAGE OYO WEST LOCAL GOVERNMENT

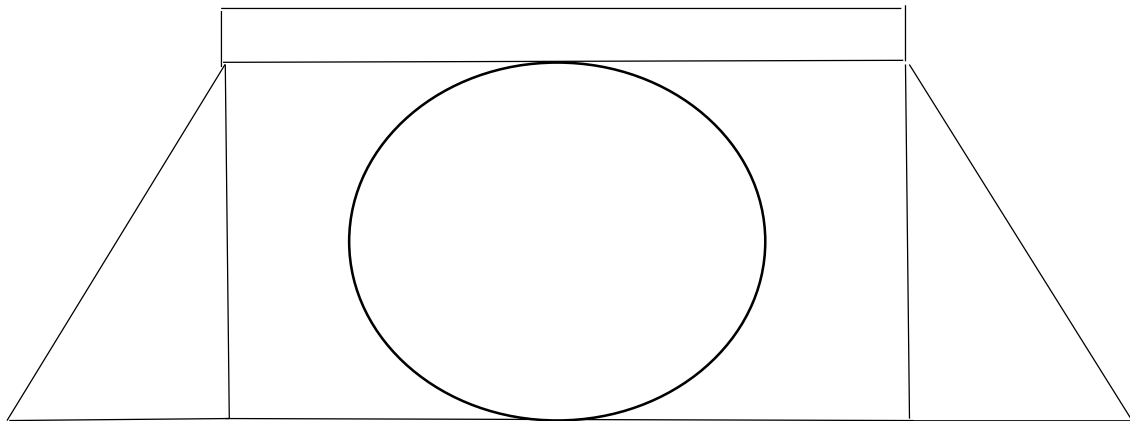
Excavation of trench for the ring culvert commerce

Excavation of trench for the ring culvert commerce

Placing of concrete as blinding for the excavated trench to received rings

Placing of rings into the excavated trench

Pouring of concrete to the both sides of the rings



RING CULVERT SECTION

Construction of wooden form work for the slab, head wall and side wall

Casting of the slab, head wall and side wall

Allow for concrete setting

Allow for concrete setting

Removing of form work from the slab, head wall and side wall

Dredging of erelu rivers outlet mogaji road Oyo, Oyo west with local government excavator

Dredging of Awon river along iseyin road with local government excavator machine

Dredging of Awon river along iseyin road with local government excavator machine

Desliting of cele/isokun road land drains

Desliting of land drainage at irewolede road Oyo west local government

Oilage of excavator machine to the office from the site

Grading of ayetoro scheme area with local government grader machine

Grading of ayetoro scheme area with local government grader machine

Desliting of land drainage at sanga area oyo west local government



GRADER



EXCAVATOR



BULLDOZER

CONCLUSION

My four months industrial training at the Oyo west local government research has been one of the interesting, productive, instructive and educative experience in my life. Through the training I gained insight and more comprehensive understanding about the real working condition and has greatly improved my interpersonal skill. As a result of the programme, I am now confident to build my future career which I have already started at the Oyo west local government.

RECOMMENDATION

My recommendation is that the department of works in the Oyo west local government should replace and add more equipment to save people from future harms.