GENERAL STRUCTURAL NOTES

A. GENERAL:

1. ALL CONSTRUCTION SHALL COMPLY WITH THE REQUIREMENTS OF "NEPAL NATIONAL BUILDING CODE" (NBC: 105: 2020), ANY PERTINENT LAWS & REGULATIONS, AND INDUSTRY STANDARDS. 2. DETAILS SHOWN ARE TYPICAL. SIMILAR DETAILS APPLY TO SIMILAR SITUATIONS EXCEPT WHERE SHOWN DIFFERENTLY ELSEWHERE.

3 VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS AT STTE: THOROUGHLY REVIEW ALL DRAWINGS, DETALLS AND SPECIFICATIONS BEFORE PLANNING THE WORK. BRING ALL INCONSISTENCES, OMESIONS OCONFLICTS TO THE ATTENTION OF OWNER AND FONDERS BEFORE PROCEEDING WITH THE WORK. ALL DIMENSIONS SHOWN ARE APPROXIMATE, DO NOT SCALE DRAWINGS, VERITY EXISTING UTILITIES. DOWINCIES: NOTES AND DETALS ON THE DRAWING STREET PROCEEDING: OWNER AND FONDE AND DOWISE AND DIMENSIONS SHOWN ARE AND DETALS ON TO SCALE DRAWINGS, VERITY EXISTING UTILITIES. TYPICAL DETAILS IN CASE OF CONFLICT

4. THE STRUCTURAL DRAWINGS SHOW STRUCTURAL FEATURES ONLY & SHOW THE FINAL PRODUCT. MEANS OF CONSTRUCTION IS TO BE DETERMINED BY THE CONTRACTOR.

5. PIPES, DUCTS, SLEEVES, CHASES, ETC.: SHALL NOT BE PLACED IN SLABS, BEAMS, OR WALLS UNLESS SPECIFICALLY SHOWN OR NOTED NOR SHALL ANY STRUCTURAL MEMBER BE CUT FOR PIPES. DUCTS. ETC. UNLESS SPECIFICALLY SHOULD STRALL ANT STRUCTURAL MEMBER BE CUT FOR PIPES, D UNLESS SPECIFICALLY SHOWN, OBTAIN PRIOR WRITTEN APPROVAL FOR INSTALLATION OF AN ADDITIONAL PIPES, DUCTS, ETC.

6. SUBSTITUTIONS: PROVIDE A LIST OF ALL PROPOSED SUBSTITUTIONS TO ENGINEER FOR REVIEW AND APPROVAL BEFORE FABRICATION AND INSTALLATION.

PROVIDED BY THE MANUFACTURER OF SUPPLIER OF ANY MATERIAL OR PRODUCT NOTED IN GEN. NOTES OR DRAWINGS.

8. EXCAVATIONS: LOCATE AND PROTECT UNDERGROUND OR CONCEALED CONDUIT, PLIMBING OR OTHER UTILITIES WHERE NEW WORK IS BEING PERFORMED. GRADES SHOWN ON STRUCTURAL DRAWINGS ARE APPROXIMATE AND FOR GENERAL REFERENCE ONLY.

9. CONSTRUCTION LOADS: MATERIALS SHALL BE EVENLY DISTRIBUTED IF RACED ON FRAMED FLOORS OR ROOFS. LOADS SHALL NOT EXCEED THE ALLOWABLE LOADING FOR THE SUPPORTING MEMBERS AND THEIR CONNECTORY.

10. CHANGES TO THE DRAWINGS: OBTAIN APPROVAL FROM ENGINEER PRIOR TO STARTING WORK 11. COLD-WEATHER REQUIREMENTS FOR ALL MATERIAL: DO NOT USE FROZEN MATERIALS OR MATERIALS MIXED OR COATED WITH ICE OR FROST. DO NOT BUILD ON FROZEN SUBGRADE OR SETTING BEDS. REMOVE AND REPLACE ASSEMBLIES DAMAGED BY FROST OR FREEZING CONDITIONS

B. DESIGN LOADS (THESE PLANS & CALCULATIONS NOT VALID FOR HEAVIER OR GREATER LOADS) GOVERNING BUILDING CODE: NBC: 105: 2020

DEAD LOADS (IN PLACE WEIGHT NOT TO EXCEED THE FOLLOWING): ROOF DL = 5 pdf (TIN ROOF); STONE WALL DL = 150 pdf (WITH CEMENT MORTAR)

LIVE LOADS: ROOF LL= 20 psf FLOOR LL= 50 psf

VERSION

STUDEN'

ODESK

5

ž

PRODUCED BY

 States
 CTU/MEL

 States
 CTU/MEL

WIND LOAD: PER NBC

SNOW LOAD: HIGH HIMALAYA REGION PER NBC OTHER LOADS: PER NBC

C. FOUNDATIONS:

GEOTECHNICAL REPORT FOR THIS PROJECT IS NOT AVAILABLE. FOUNDATION DESIGN IS BASED ON PROVISIONS OF CBC CHAPTER 18, BASIC ALLOWABLE SOIL PRESSURE = 1500 PSF

2. FOOTINGS SHALL BEAR ON UNDISTURBED SOIL. IF OVER-EXCAVATED, FILL VOID WITH LEAN CONCRETE

3. REVIEW PLANS, ELEVATIONS & SECTIONS TO DETERMINE CONCRETE FLOOR ELEVATION, DROPS, STEPS, PENETRATIONS, BLOCK-OUTS, ETC.

4. SHORE EXISTING STRUCTURE AS NECESSARY WHILE WORKING ON OR NEAR EXISTING FOUNDATION 5 ROOF AND AREA DRAINAGE SHALL BE DIRECTED AWAY FROM FOUNDATIONS

D. CONCRETE:

1. CONCRETE SHALL ATTAIN A 28-DAY COMPRESSIVE STRENGTH OF 2500 PSI MIN. SUBMIT MIX DESIGN. 2. REINFORCEMENT: ASTM AG1S WITH MINIMUM YIELD STRENGTH OF 60,000 PSI; LAP: 40 BAR DIAMETER MIN. EXCEPT OTHERWISE SHOWN ON PLAN & DETAILS.

3. CLEAR COVER TO REINFORCEMENT: 3" WHEN CAST AGAINST EARTH, 2" WHEN FORMED SURFACES TO BE BACKFILLED WITH EARTH; 1-1/2 IN ELSEWHERE.

4. VERIFY LOCATIONS FOR OPENINGS OR PENETRATIONS THROUGH CONCRETE, CONCRETE CURBS, FLOOR DEPRESSIONS, FLOOR SLOPES AND DRAINS, INSERTS, ETC.

5. DETAILING, FABRICATION AND PLACING OF REBARS SHALL CONFORM TO ACI 315 AND ACI 318 IF NOT SHOWN ON THESE DRAWINGS>

6. REINFORCEMENT, ANCHOR BOLTS, PIPE SLEEVES, AND OTHER INSERTS: POSITIVELY SECURED IN PLACE BEFORE CONCRETE IS POURED

7. VIBRATION: ALL CONCRETE SHALL BE CONSOLIDATED WITH MECHANICAL VIBRATORS.

8. PROVIDE CONSTRUCTION JOINT (COLD JOINTS) WHERE POURING IS TO BE DISCONTINUED FOR MORE THAN 15 MINUTES, REBARS SHALL BE CONTINUOUS THRU CONSTRUCTION JOINTS. USE THE CONSTRUCTION JOINT DETAIL PROVIDED HEREIN.

E. STRUCTURAL STEEL:

SHAPES & PLATES: ASTM A36; BOLTS: ASTM A307, EXCEPT USE ASTM A325 FOR BOLTS NOTED AS HIGH STRENGTH BOLTS: ANCHOR BOLTS: ASTM A307 WITH 7 DLA HOOK MINIMUM UNLESS PLATE WASHERS & NUTS SPECIFIED AT HIBEODED ENDG ; PIPE COLUMN: ASTM A501, Fy = 36 KSI; STEEL TUBE: ASTM A500, GRADE B, Fy = 46 KSI.

2. ITEMS INDICATED TO BE GALVANIZED AND ALL METAL EXPOSED TO EXTERIOR WEATHER SHALL BE HOT DIP GALVANIZED AFTER FABRICATION PER ASTM A153. 3. STEEL EXPOSED TO WEATHER SHALL BE HOT-DIPPED GALVANIZED

F. WOOD FRAMING

1. FRAMING LUMBER: HARD WOOD MADE OF SAL WOOD, OR SIMILAR SPECIES AS APPROVED BY THE ENGINEER. 2. POSTS BEARING ON CONCRETE OR SIMILAR BASE SHALL BE SECURED DIRECTLY WITH a METAL POST BASE (SIMPSON CRO OR EQUIVALENT) AS INDICATED ON THE PLANS.

3. ALL BLOCKING, BRIDGING, DOUBLING OF JOISTS UNDER PARALLEL PARTITIONS, FIRE-STOPPING, ETC NOT INDICATED SHALL BE AS REQUIRED BY NBC & ACCORDING TO GOOD BUILDING PRACTICE. 4. NAILS SHALL BE COMMON NAILS OR APPROVED EQUAL, UNLESS NOTED OTHERWISE. SEE "NAILS" SECTION BELOW FOR SIZES OF COMMON NAILS. FOR METAL HANGERS AND CONNECTORS, NAIL SUBSTATION MAY BE ALLOWED ROVIDED LOAD CAPACITIES ARE REDUCED & APPROVED BY ENGINEER.

 S MONTRA (Section 2014)
 Section 2014
 Se

6. WOOD EXPOSED TO WEATHER, WITHIN 6" OF SOIL, OR IN CONTACT WITH CONCRETE OR STONE MASONRY SHALL BE PRESERVATIVE TREATED AS DIRECTED BY ENGINEER. CONTACT ENGINEER.

G. STONE MASONRY:

1. GENERAL: NOMINALLY REINFORCED COURSED ROUGHLY DRESSED RUBBLE STONE MASONRY (NRM) WITH CEMENT MORTAR IS SPECIFIED FOR THIS PROJECT.

2. STIRET THE ETONES SHALL HAVE HINDING SECURY GAUNTY OF 2.4, SUBJECT FROM NULLERS ON RECOLONGENTIC CONTENTS, CONTENTS, CONTENTS, SUBJECT STATUS, SUBJECT S

2 DO NOT LISE BOUND BIVER BOULDERS UNLESS DRESSED

4. DO NOT USE FROZEN MATERIALS OR MATERIALS MIXED OR COATED WITH ICE OR FROST. DO NOT BUILD ON FROZEN SUBGRADE OR SETTING BEDS. REMOVE AND REPLACE STONE ASSEMBLIES DAMAGED RY FROST OR REFEZING CONDITIONS

5. MORTAR: MORTAR TO BE USED AS BINDING MATERIAL FOR STONE MASONRY SHALL CONSIST OF ONE PART PORTLAND CEMENT AND THREE PARTS OF DAMP LOOSE MORTAR SAND, BY VOLUME AND THE STREAM OF THE ADD THE FAILS OF DAME UNDER HOLTRA SHALL BY VOLUME AND HOMED DAME AND THE BALLER AND TO ANY ADD THE ADD THE ADD THE ADD THE DEVENSION DEVENTION THE BALLER AND DAVIN ADD AND THE ADD THE ADD THE DEVENSION DEVENTION THE BALLER ADD THE ADD THE ADD THE ADD THE ADD THE DEVENSION DEVENTION THE BALLER ADD THE ADD THE ADD THE ADD THE ADD THE DEVENSION DEVENTION TO ADD THE ADD THE ADD THE ADD THE ADD THE ADD THE DEVENSION DEVENTION TO ADD THE ADD THE ADD THE ADD THE ADD THE DEVENSION DEVENTION TO ADD THE ADD THE ADD THE ADD THE ADD THE DEVENSION DEVENTION TO ADD THE ADD THE ADD THE ADD THE ADD THE DEVENSION DEVENTION TO ADD THE ADD THE ADD THE ADD THE ADD THE DEVENSION DEVENTION TO ADD THE ADD THE ADD THE ADD THE ADD THE DEVENSION DEVENTION TO ADD THE ADD THE ADD THE ADD THE ADD THE ADD THE DEVENSION DEVENTION TO ADD THE ADD THE ADD THE ADD THE ADD THE ADD THE DEVENSION DEVENTION TO ADD THE ADD THE ADD THE ADD THE ADD THE ADD THE DEVENSION DEVENTION TO ADD THE ADD THE ADD THE ADD THE ADD THE ADD THE DEVENSION DEVENTION TO ADD THE ADD THE ADD THE ADD THE ADD THE ADD THE DEVENSION DEVENTION TO ADD THE ADD THE ADD THE ADD THE ADD THE ADD THE DEVENSION DEVENTION TO ADD THE ADD THE ADD THE ADD THE ADD THE ADD THE DEVENSION DEVENTION TO ADD THE ADD

APPRUAMELS 1/2 - A FAUXING OF STORE MASCRAFT: DEEN COURSE OF STORE SHALL BE ROUGHLY DRESSED AND LADD MONIZONTALLY VENTION, JOINT AND AFGES SHALL BE TRUEY VENTION. THMOUGH STORES (JALD) BUES ON EVERY TIMOUT COURSES STORES SHALL NOT BE ACADO DURING MAILS SHAFTCEINTEN INCOMEND TO WASH THE MONTAN FROM THE MASCRAFT MARKAN SHAFTCEINTEN HAAVY OR MASCRAFT TO WASH THE MONTAN FROM THE MASCRAFT MARKAN SHAFTCEINTEN HAAVY OR MASCRAFT TO WASH THE MONTAN FROM THE MASCRAFT MARKAN SHAFTCEINTEN HEAD ONE TO THE MONTAN FROM THE MASCRAFT MARKAN SHAFTCEINTEN HEAD ONE TO WASH THE MONTAN FROM THE MASCRAFT MARKAN SHAFTCEINTEN HEAD ONE TO WASH THE MONTAN FROM THE MASCRAFT MARKAN SHAFTCEINTEN HEAD ONE TO WASH THE MONTAN FROM THE MASCRAFT MARKAN SHAFTCEINTEN HEAD ONE TO WASH THE MONTAN FROM THE MASCRAFT MARKAN SHAFTCEINTEN HEAD ONE TO WASH THE MONTAN FROM THE MASCRAFT MARKAN SHAFTCEINTEN HEAD ONE TO WASH THE MONTAN FROM THE MASCRAFT MARKAN SHAFTCEINTEN HEAD ONE TO WASH THE MONTAN HEAD ONE TO WASH THE MARKAN SHAFTCEINT HEAD ONE TO WASH THE MONTAN HEAD ONE TO WASH THE MARKAN SHAFTCEINT HEAD ONE TO WASH THE MONTAN HEAD ONE TO WASH THE MARKAN SHAFTCEINT HEAD ONE TO WASH THE MONTAN HEAD ONE TO WASH THE MARKAN SHAFTCEINT HEAD ONE TO WASH THE MONTAN HEAD ONE THE MARKAN SHAFTCEINT HAAY THE HEAD ONE TO WASH THE MONTAN HEAD ONE THE MARKAN SHAFTCEINT HAAP THE HEAD ONE THE MONTAN HEAD ONE THE MARKAN HEAD ONE THE MARKAN HEAD ONE THE MARKAN HEAD ONE THAT HEAD ONE THE MARKAN HEAD ONE THAT HEAD ONE THE MARKAN HEAD ONE THAT HE

7. STONE MASONRY SHALL BE PLACED ON PROPERLY PREPARED AND FIRM FOUNDATIONS AND IN ACCORDANCE WITH THE DRAWINGS OR AS DIRECTED OF THE ENGINEER. FOUNDATIONS SHALL BE APPROVED BY THE ENGINEER BEFORE PLACEND THE MASONRY.

8. IF AFTER COMPLETION, ANY STONE MASONRY IS OUT OF ALIGNMENT OR NOT LEVEL OR DOES NOT CONFORM TO LINES AND GRADES SHOWN ON THE DRAWINGS, IT SHALL BE REMOVED AND REPLACED BY THE CONTRACTOR AT HIS EXPENSE.

9. WHERE VERTICAL OR HORIZONTAL REINFORCING BARS ARE PRESENT WITHIN THE MASONRY, THERE SHALL BE MININUM GAP OF 2" RADIUS AROUND THE BARS (4" DIAMETRE SPACE). MORTAR SHALL BE PLACED AND COMPACTED IN THE GAP AS DIRECTED BY THE ENGINEER.

10. REINFORCING BARS: SEE ABOVE FOR CONCRETE

11. CURING: THE MASONRY SHALL BE KEPT MOIST ON ALL THE FACES FOR AT LEAST 7 DAYS AS DIRECTED BY THE ENGINEER.

La contrato de fatte Maderia e a general to en la contrate, en la contrato de la THE ENGINEER. THE FOLLOWING TWE OF POINTING SHALL BE CARGED OUT AS DIRECTED BY THE ENGINEER: DESIDE FOINTING SHALL CONSIST OF A FLLING OF JOINTS TO ABOUT 10 MARGAGE DEFINI HEGINT FLUSH WITH THE FACE OF THE STOKE RAISED FOINTING SHALL CONSIST OF FILLING OF JOINT TO ABOUT 10 MORTH AND HEGINT NOT LESS THAN 1 CM ABOVE THE FACE OF THE STOKE.

13. DRILLING HOLES: DRILLING OF HOLES FOR INSTALLATION OF ANCHOR BOLTS, ETC. SHALL BE DONE IN SUCH A MAINER NOT TO SPLIT OR DAMAGE THE STORES BY BEING TOO CLOSE TO THE EDGE OF STORES, MANNERACTURERS INSTRUCTIONS SHALL BE FOLLOWED FOR HOLE DIAMETER, DEPTH. CLEANING

1. ALL NAILS SHALL BE COMMON WIRE NAILS, U.N.O., OF FOLLOWING SPECIFICATIONS: SIZE LENGTH DIAMETER PENETRATION PENNY INCHES INCHES 2.5° 0.131 1-1/2 3° 0.148 1-5/8 3.5° 0.162 1-3/4 4° 0.192 2-1/8 4.5° 0.207 2-1/4 8d 10d 16d 20d 30d

PENETRATION IS MEASURED INTO THE PIECE RECEIVING THE NAIL POINT. WHERE THE NAIL PENETRATION WILL BE LESS THAN SPECIFIED, INCREASE NAIL LENGTH (SIZE) TO OBTAIN THE PENETRATION REQUIRED FOR THE NAIL SPECIFIED.

I. PLYWOOD:

H. NAILS:

1. USE APA TRADEMARKED REVIGOD CONFORMING TO NATIONAL EVALUATION SERVICE COMMITTEE REPORT NO. NER-108 WITH EXTERIOR OLLE, GRADE AND THICKNESS AS SPECIFIED, OR AS DIRECTED BY REVIEWEN WITH REATED REVIGOD AND CONCERTE NING MEMBER OR BLOCKING, MONTOE 1/2 "SPACE RETIVEEN WITH REATED REVIGOD AND CONCERTS.

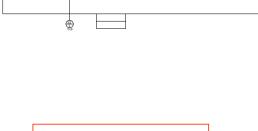
J. STRUCTURAL OBSERVATION BY ENGINEER: NOTIFY ENGINEER OR ENGINEER'S REPRESENTATIVE AT LEAST 15 DAYS AHEAD: (a) BEFORE POURING CONCRETE FOR INSPECTION OF REBARS, FOUNDATION SIZES, EMBEDDED ANCHOR BOLTS & METAL.

ANCHOR BOLTS & METAL. (b) BEFORE STARTING WALL CONSTRUCTION (c) BEFORE STARTING ROOF TRUSS FABRICATION, AND BEFORE INSTALLATION (d) BEFORE STARTING INSTALLATION OF ROOFING

K. EPOXY EMBEDDED ANCHOR BOLTS: IF USED, THE PRODUCT SHALL BE APPROVED BY THE ENGINEER (SIMPSON XP, HILTI HIT RE 500 SD, OR APPROVED EQUIVALENT). ORILL HOLES AND BLOW OUT DUST FROM THE HOLES USING AIR SPRAY & CLEAN THE HOLES USING VINNE BUSUH INITIL NO USITY PRESENT. FOLLOW MANAFACTURER'S

PROJECT ADDRESS: TRIPITAK BASIC (ELEMENTARY) SCHOOL Shey Phoksundo Rural Mucipality, Ward No.1 LHURI VILLAGE, UPPER DOLPA, NEPAL (Near Saldang) Annrun Lattinule and Longitude: 29 (492560 N. 83 055651 F

Lhuri Village Annapuma Nepal -H31 - H37 101



Turn Formation

2'-0" Typ Footing Width





PRODUCED BY AN AUTODESK STUDENT VERSION

-

2'-0" Typ Footing Width

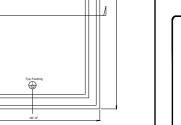
(1) Signation Typ Foo ٢

Typ Footi



Typ Footing

New School Building For TRIPITAK PRIMARY SCHOOL (Elementary School) Lhuri, Upper Dopa, Nepal (Near Saldang) \vdash





RODUCED BY AN AUTODESK STUDENT VERSION

das x 36 indes



FOUNDATION

৵ Ľ Ξ