







	PROJECT TITLE:	PREPARED BY:	RECOMMENDING APPROVAL:	APPROVED:	SHEET CONTENTS:	SHEET NO	0.:	
	CONSTRUCTION OF SITE DEVELOPMENT 2021		AS SHO		AS SHOWN	SE	SDP	
a		KEN JAMES F. FADRIQUELA RESIDENT CIVIL ENGINEER	MERIAM F. FALLAR ADMINISTRATIVE OFFICER V	EDWARD C. ALBARACIN CAMPUS DIRECTOR III	AS SHOWN	0	3	

A. GENERAL NOTES:

- IN THE INTERPRETATION OF THESE DRAWINGS, INDICATED DIMENSIONS SHALL GOVERN AND DISTANCES OR SIZES SHALL NOT BE SCALED FOR CONSTRUCTION PURPOSES.
- THE CONTRACTOR SHALL COORDINATE WITH THE AR, ME, SE, EE, AND OTHER UTILITIES AND EQUIPMENT PLANS FOR THE EXACT SIZE, NUMBER AND LOCATIONS OF ALL SLEEVES OR OPENINGS THRU FLOOR SLABS, BEAMS AND WALLS AND ALSO BUILDING DIMENSIONS.
- ALL REINFORCED CONCRETE WORK SHALL BE DONE IN ACCORDANCE WITH THE ACI 318 14 BUILDING CODE, AND ALL STRUCTURAL STEEL WORK SHALL BE DONE IN ACCORDANCE WITH AIRSC SPECIFICATION (CIREST EDITION) IN SO FAR AS THEY DO NOT CONFLICT WITH THE LOCAL BUILDING CODE REQUIREMENTS.
- ALL SLABS, BEAMS, GIRDERS AND OTHER STRUCTURAL ELEMENTS WHICH ARE NOT INDICATED, DETAILED, DESIGNATED OR INADVERTENTLY OMITTED BUT ARE NECESSARY TO BE COORDINATED WITH ARCHITECTURAL AND OTHER ALLEID ENGINEERING PLANS AS WELL AS TO COMPILETE THE STRUCTURAL WORKS IN ACCORDANCE WITH THE INTENT OF THE PLANS AND SPECIFICATIONS SHALL BE BROUGHT UP DURING PRE-BUS/MEETINGS/NECOTIATIONS. IT IS UNDESTROOD THAT THE CONTRACTOR HAS PROVIDED AND INCLUDED ALL THESE TENDS

B. NOTES ON CONCRETE MIXES AND PLACING

1.1 FOUNDATION & WALLS

- CONCRETE SHALL BE DEPOSITED IN ITS FINAL POSITION WITHOUT SEGREGATION, RE-HANDLING
 OR FLOWING, PLACING SHALL BE DONE PREFERABLY WITH BUGGIES, BUCKETS OR WHEEL BARROWS.
 NO CHUTES WILL BE ALLOWED EXCEPT TO TRANSFER CONCRETE FROM HOPPERS TO BUGGIES,
 WHEEL BARROWS OR BUCKETS, IN WHICH CASE, THEY SHALL NOT EXCEED SIX THOUSAND
- 3. NO DEPOSITING OF CONCRETE SHALL BE ALLOWED WITHOUT THE USE OF VIBRATORS UNLESS AUTHORIZED IN WRITING BY THE STRUCTURAL ENGINEER AND ONLY FOR UNUSUAL CONDITIONS WHERE VIBRATION IS EXTREMELY DIFFICULT TO ACCOMPLISH.

C. NOTES ON REINFORCING STEEL BARS

ALL REINFORCING STEEL BARS SHALL BE NEW BILLET, HOT ROLLED, WELDABLE, DEFORMED BARS CONFORMING TO THE SPECIFICATIONS OF PNS 49: 1986 (ASTM 615), AND ASTM A706 (GR. 60, WELDABLE) WHOSE GRADE IS SHOWN ON TABLE 1.

TABLE-1		
GRADE	BAR DIAMETER	
GRADE 415 (fy = 60 ksi)	16, 20, 25, 28, 32 MM DIA.	
GRADE 275 (fy = 40 ksi)	10, 12 MM DIA.	
GRADE 230 (fy = 33 ksi)	SMALLER THAN 10 MM DIA.	

- 2.1 THE MAXIMUM YIELD STRENGTH OF WELDABLE BARS = 540 MPa.
- 2.2 THE TENSILE STRENGTH SHALL NOT BE LESS THAN 1.25 TIMES THE ACTUAL YIELD STRENGTH.
- ALL CONCRETE REINFORCEMENT SHALL BE DETAILED, FABRICATED, LABELED, SUPPORTED AND SPACED IN FORMS, SECURED IN THE REQUIRED LOCATION IN ACCORDANCE WITH THE PROCEDURES AND REQUIREMENTS OUTLINED IN THE LATEST EDITION OF THE BUILDING CODE AND THE MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES, ACI - 315.
- ALL REINFORCING BARS SHALL BE CLEANED THOROUGHLY OF ALL LOOSE RUST, SOIL OR OTHER MATERIAL IMMEDIATELY PRIOR TO PLACING CONCRETE.
- THE REDUIRED LENGTH OF LAP FOR TENSION SPLICES IS BASED ON THE DEVELOPMENT LENGTH, Ld, SHOWN IN TABLE 2 FOR RC BEAMS AND GIRDERS, ON THE FOLLOWING CLASSIFICATIONS

TENSIO	N SPLICE	SPLICE LEN
CLASSIF	FICATION	
CLASS	A	1.0 Ld
CLASS	В	1.3 Ld

6. TOP BARS ARE HORIZONTAL BARS WITH AT LEAST 300 mm OF CONCRETE CAST BELOW IT.

TABLE-2				
DEJEMPART LENGTH, LLI, IN TRISON FOR R.C. BEALS & GROUPS				CROERS
(PRESETTE & MAY PRESETT)				
BAR SIZE (mm)	fc' = 21 MPa (3,000 psi)		fc' = 28 MPa (4,000 psi)	
	TOP BARS (mm)	OTHERS (mm)	TOP BARS (mm)	OTHERS (mm)
16ø	800	600	700	525
20ø	1090	840	1000	730

NOTE: FOR BUNDLE BARS (3 BUNDLES/4 BUNDLES) MULTIPLY ABOVE TABLE BY 1.3

7. THE REQUIRED LENGTH OF LAP FOR COMPRESSION SPLICES SHALL BE AS SHOWN IN TABLE 4.

	LENGTH OF LAP COMPR			
BAR SIZE (mm)	f'c = 21.0 MPa (3,000psi)	f'c = 28.0 MPa (4,000psi)		
16	420	390		
20	540	510		
25	720	600		
28	810	720		
32	900	780		
36	990	900		

8. A FULL WELDED SPLICES SHALL HAVE BARS BUTTED AND WELDED TO DEVELOP IN TENSION AT LEAST 125 PERCENT OF THE SPECIFIED YIELD STRENGTH fy, OF THE BAR. (SEE FIGURE 1a &1b))

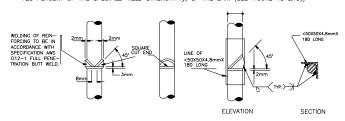


FIGURE 1a

FIGURE 16

TYPICAL WELDED SPLICE DETAILS FOR BARS 250 TO 360

FIGURE 1

- ALL WELDING OF REINFORCEMENT SHALL CONFORM TO THE PROVISIONS OF THE STRUCTURAL WELDING CODE—REINFORCING STEEL, AWS D1.4
- 10. A FULL MECHANICAL CONNECTION (REBAR SPLICER) SHALL DEVELOP IN TENSION OR COMPRESSION, AS REQUIRED, 125 PERCENT OF THE SPECIFIED YIELD STRENGTH fy, OF THE BAR. IF USED, SUBMIT SAMPLE FOR APPROVAL OF THE STRUCTURAL ENGINEER.
- 11. CLEAR CONCRETE COVER FOR REINFORCING BARS SHALL BE AS FOLLOWS:

 1) CONCRETE CAST AGAINST EARTH 75 mm

2) CONCRETE EXPOSED TO EARTH OR WEATHER-

16 mm BARS AND SMALLER - 40 mm

3) CONCRETE NOT EXPOSED TO EARTH OR WEATHER— SLABS, WALLS, JOINTS — 20 r

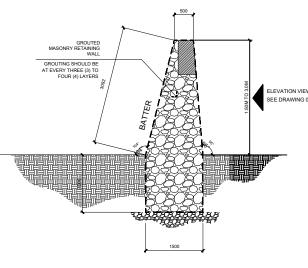
BEAMS AND COLUMNS

D. NOTES ON FOUNDATION

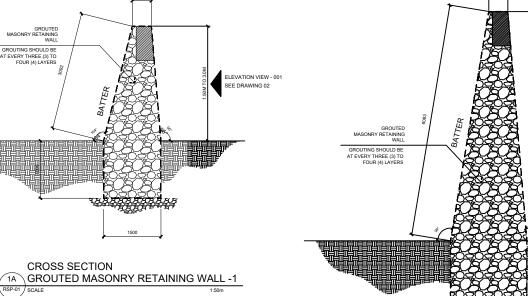
- THE FOUNDATION IS DESIGNED FOR A NET ALLOWABLE SOIL BEARING PRESSURE OF 100 KPa AT A MINIMUM DEPTH OF ONE AND A HALF (1.50) METERS FROM THE NATURAL GRADE LINE.
- NO FOOTING SHALL REST ON FILL FOOTINGS FOR CHB WALLS AND OTHER MINOR STRUCTURES SHALL BE EMBEDDED AT LEAST $800\,\mathrm{mm}$ FROM THE NATURAL GRADE LEVEL,
- CONTRACTOR SHALL DESIGN, INSTALL AND MONITOR EXCAVATIONS RETENTION SYSTEMS, AS REQUIRED FO PROTECTION OF ADJACENT PROPERTIES AND PROVIDE ALL MEASURES AND PRECAUTIONS RECESSARY TO MINIMIZE SETLEMENT AND PREVENT DAMAGE TO ADJACENT EXISTING OR NEW CONSTRUCTION.
- PREPARE CONDITIONS OF CONCRETE SUPPLY AND PLACEMENT OF THE COMPLETE FOUNDATION FOR THE FULL THICKNESS AS A CONTINUOUS MONOLITHIC CASTING.
- DO NOT BACKFILL AGAINST BASEMENT WALLS UNTIL GROUND FLOOR SLABS HAVE BEEN PLACED AND THE CONCRETE HAS ATTAINED THE REQUIRED STRENGTH.

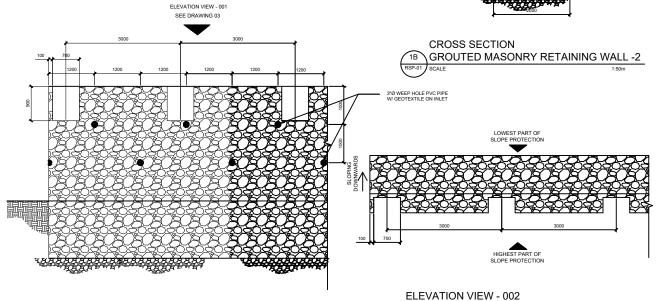
REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL ELEVATION DETAILS, REFER TO ARCHITECTURAL, MECHANICAL, PLUMBING AND OTHER TRADES FOR SUBSOIL DRAINAGE SYSTEM, MACHINERY ANCHORS AND OTHER EMBEDDED ITEMS, DEPRESSIONS, FINISHES, DOWELS FOR MASONRY WALLS, CURBS, ETC

8. SEE TYPICAL DETAIL OF LIMITING SLOPE OF ADJACENT FOOTING AT DIFFERENT ELEVATION. (REFER TO FIGURE 2)



CROSS SECTION





ELEVATION VIEW - 001 2 GROUTED MASONRY RETAINING WALL -1 3 GROUTED MASONRY RETAINING WALL -1

BLOCKING DETAILS

BLOCKING DETAILS

DEPARTMENT OF SCIENCE AND TECHNOLOGY PHILIPPINE SCIENCE HIGH SCHOOL MIMAROPA REGION CAMPUS BRGY, RIZAL, ODIONGAN, ROMBLON



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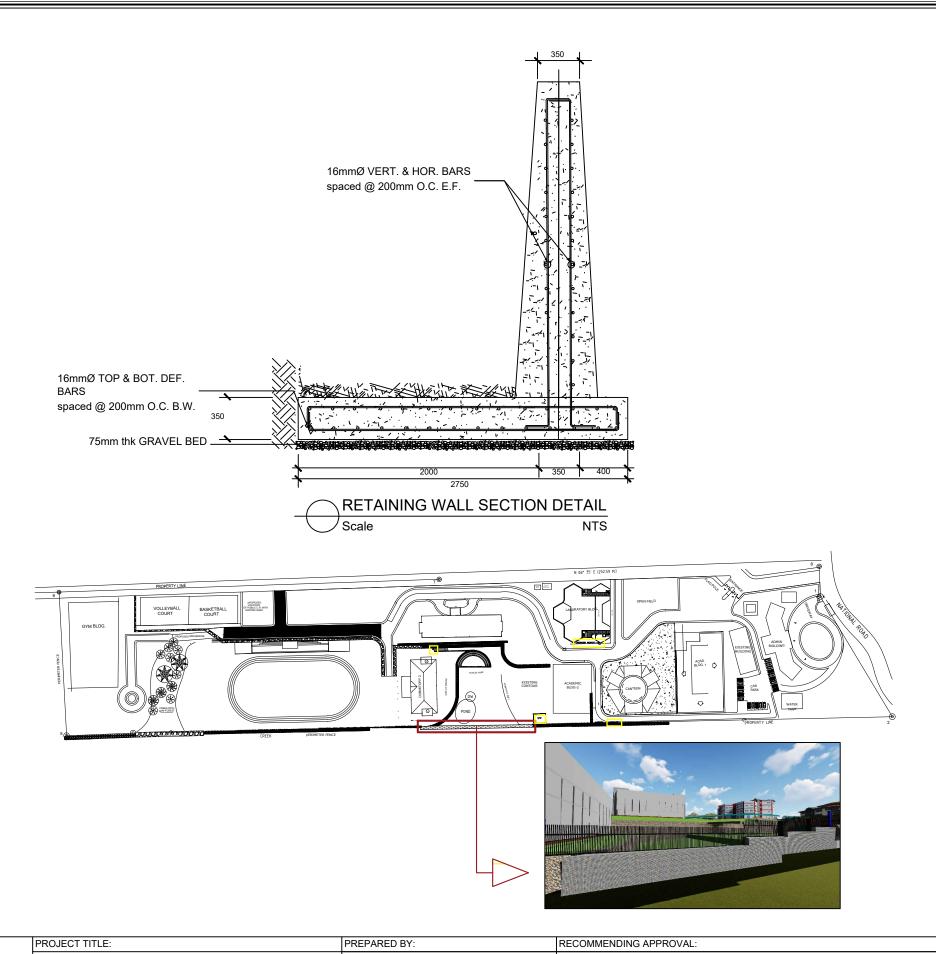
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ELEVATION VIEW - 001 SEE DRAWING 02







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