ANA LEON GUERRERO HOUSE
REHABILITATION/STABILIZATION

INARAJAN       GUAM

VICINITY MAP

SITE PLAN

LIST OF DRAWINGS

SHEET NO.  DESCRIPTION
T-1     TITLE SHEET, LIST OF DRAWINGS, SUBJECT LOCATION AND SITE PLAN
S-1     SPECIFICATION FOR CONCRETE REPAIR AND REPAIR NOTES
S-2     FOOTING PLAN, FLOOR FRAMING PLAN AND SECTION/DATA

SUBJECT LOCATION - INARAJAN-
SPECIFICATION FOR CONCRETE REPAIR:

PART 1 - GENERAL:

1.00 RELATED DOCUMENTS:

A. DRAWINGS: GENERAL CONDITIONS, GENERAL REQUIREMENTS AND OTHER APPROPRIATE TECHNICAL SPECIFICATIONS APPLY TO WORK OF THIS SECTION.

1.01 DESCRIPTION OF WORK:

A. PREPARATION OF CONCRETE AND APPLICATION OF REPAIR MATERIALS.
B. RESTORATION OF CONCRETE SURFACES.

1.02 RELATED SECTIONS:

A. SEE CONSTRUCTION NOTES.

1.03 REFERENCES:

A. REFERENCE STANDARDS: COMPLY WITH THE REQUIREMENTS OF THE REFERENCE STANDARDS (LATEST EDITION) LISTED HEREIN, EXCEPT WHERE MORE STRINGENT REQUIREMENTS ARE LISTED HEREIN OR OTHERWISE REQUIRED BY THE CONTRACT DOCUMENTS.

1.04 PRODUCT RECORD DOCUMENTS:

A. SUBMIT PRODUCT DOCUMENTS.
B. QUALITY ASSURANCE:

A. MATERIALS MANUFACTURER: COMPANY SPECIALIZING IN MANUFACTURING THE PRODUCTS SPECIFIED IN THIS SECTION WITH MINIMUM THREE YEARS DOCUMENTED EXPERIENCE.
B. APPLICATOR COMPANY: SPECIALIZING IN CONCRETE REPAIR WITH MINIMUM 2 YEARS DOCUMENTED EXPERIENCE, APPROVED BY MATERIALS MANUFACTURER.
C. WELDING: AND/AS D.1.4

PART 2 - PRODUCTS

2.01 PATCHING MATERIALS:

A. EPOXY RESIN: TWO-PART EPOXY ADHESIVE CONTAINING 100 PERCENT SOLIDS, MEETING THE FOLLOWING MINIMUM CHARACTERISTICS:

CHARACTERISTIC TEST METHOD RESULTS
BOND STRENGTH ASTM C802 2,700 PSI
TENSILE STRENGTH ASTM D638 6,600 PSI
ELONGATION ASTM D638 2 PERCENT AT 7 DAYS AT 70 F
FLEXURAL STRENGTH ASTM D790 6,000 PSI
COMPRESSIVE STRENGTH ASTM D695 5,500 PSI
B. BONDING AGENT: POLYVINYL ACETATE EMULSION, DISPERSIBLE IN WATER WHILE MIXING, NON-COALITANT IN MIX, WATER RESISTANT WHEN CURBED.
C. PORTLAND CEMENT: ASTM C150, TYPE I OR JS R 5210 ORDINARY.
D. SAND: ASTM C33 CLEAN.
E. WATER: CLEAN AND POTABLE.
F. CLEANING AGENT: COMMERCIAL WURFROS ACID.

2.02 REINFORCEMENT MATERIALS:

A. REINFORCING STEEL: ASTM A615, 40 KSI YIELD (GRADE BILLET-STEEL), DEFORMED BARS, UNCOATED FINISH.

2.03 MIXING EPOXY MORTARS:

A. MIX EPOXY MORTARS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS FOR PURPOSE INTENDED.
B. MIX COMPONENTS IN CLEAN EQUIPMENT OR CONTAINERS, CONFIRM TO POT LIFE AND WORKABILITY LIMITS.

2.04 MIXING CEMENTitous MATERIALS:

A. MIX CEMENTitous MATERIAL IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS FOR PURPOSE INTENDED.
B. INCLUDE BONDING AGENT AS DIRECTIONS TO MIX.

PART 3 - EXECUTION

3.01 EXAMINATION:

A. VERIFY BY VISUAL INSPECTION THAT SURFACES ARE READY TO RECEIVE WORK.

3.02 PREPARATION:

A. REMOVE撥除 CONCRETE SURFACES OF SOILING, DIRT, LAZINESS, CORROSION, OR OTHER CONTAMINATION AND WASH SURFACE USING NON-HYPOXIDE, POTABLE WATER TO REMOVE LAZINESS AND DIRT.
B. PLUG OR REPAIR HOLE WITH POTABLE WATER TO REMOVE LAZINESS AND DIRT.
C. CONCRETE TEMPORARY ENTRY PORTS SPACED TO ACCOMPLISH MOISTURE OF FLUX BEEN FOUND, NO DEEPER THAN THE DEPTH OF THE CRACK TO BE FILLED. LIMIT PORT SIZE DIAMETER TO BE NO GREATER THAN THE THICKNESS OF THE CRACK. PROVIDE TEMPORARY SEAL AT CONCRETE SURFACE TO PREVENT LEAKAGE OF ADHESIVE.
D. FOR AREAS PATCHED WITH EPOXY MORTAR, REMOVE BROKEN AND SOFT CONCRETE TO A DEPTH DEEP OR DEEP AS NECESSARY. REMOVE CORROSION FROM STEEL. CLEAR SURFACES MECHANICALLY AND RINSE WITH POTABLE WATER.
E. WIRE BRUSH TO CLEAN EXPOSED REINFORCEMENT STEEL SURFACES. MECHANICALLY CUT AWAY DAMAGED PORTIONS OF BAR.

3.03 PROTECTION:

A. IF DEEP DEFECTS EXPOSING REINFORCEMENT, CHIP TO SOUND CONCRETE AND CLEAN THROUGHOUT TO REMOVE ALL LOOSE CONCRETE AND DUST. APPLY A COAT OF SPECIFIED EPOXY ADHESIVE, THICK AND EMULSIFIED, TO PORTAGE CEMENT, PRIOR TO DEVELOPMENT OF TACK-TO-TACK CONDITION OF EPOXY ADHESIVE. STRIP FORMS AFTER GROUT HAS HARDENED AND PROVIDE SPECIFIED FINISH. MUST CURE OR APPLY SPECIFIED CLEAR CURING AND SEALING COMPOUND IMMEDIATELY AFTER FINISHING.
B. DEFLECTS DEEPER THAN 1/2 INCH NOT DEEP ENOUGH TO REPAIRING CHIP AND CLEAN TO EXPOSE A FINISHED AGGREGATE PROFILE. APPLY SPECIFIED EPOXY ADHESIVE, DRY PACK USING SPECIFIED NON-METALLIC, NON-SHRINK GROUT POUR TO DEVELOPMENT OF TACK-FREE CONDITION OF EPOXY ADHESIVE. PROVIDE SPECIFIED FINISH AND CURVE AS SPECIFIED ABOVE.

3.05 REPAIR WORK:

A. REPAIR REINFORCEMENT BY WELDING NEW BAR REINFORCEMENT TO EXISTING REINFORCEMENT WITH SLEEVE SPACERS, WELDED SPACERS AND REINFORCEMENT TO DEVELOP 125/% OF YIELD STRENGTH VALUE.
B. INJECTION - EPOXY RESIN ADHESIVE:

A. INJECT ADHESIVE INTO PREPARED PORTS UNDER PRESSURE USING EQUIPMENT APPROPRIATE FOR PARTICULAR APPLICATION.
B. BEGIN INJECTION AT LOWER ENTRY PORT AND CONTINUE UNTIL ADHESIVE APPEARS AT ADJACENT ENTRY PORTS. CONTINUE FROM PORT TO PORT UNIT ENTIRE CRACK IS FILLED.
C. REMOVE TEMPORARY SEAL AND EXCESSIVE ADHESIVE.
D. CLEAR SURFACES ADJACENT TO REPAIR AND BLEND FINISH.

3.05 APPLICATION - EPOXY MORTAR:

A. TROWEL APPLY MORTAR MIX TO AN AVERAGE THICKNESS OF 0.5 INCHES. TAMP INTO PLACE FILLING Voids AT SPALLED AREAS.
B. FOR PATCHING HOLLERD TO, MORTAR OR CONCRETE, WORKING INTO HOLLOW TO BRING SURFACE FLUSH WITH SURROUNDING AREA. TAMP DOWN SPALLED AREAS TO MATCH SURROUNDING AREA.
C. OBTAIN EXPOSED STEEL REINFORCEMENT WITH EPOXY MORTAR AND FEATHER EDGES TO FLUSH SURFACE.

3.05 APPLICATION - CEMENTOUS MORTAR:

A. APPLY COATING OF BONDING AGENT TO DRY CONCRETE SURFACES, PROVIDE FULL SURFACE COVERAGE.
B. APPLY CEMENTOUS MORTAR BY STEEL TROWEL TO AN AVERAGE THICKNESS OF 3/8 INCHES. TAMP INTO PLACE FILLING Voids AT SPALLED AREAS, REMOVE EXCESSE MORTAR INTO HOLLOW TO.
C. DUMP CURE CEMENTOUS MORTAR AND CRACK FOR AT LEAST FOUR (4) DAYS.

C. HAIRLINE CRACK REPAIR:

1. THE STRUCTURAL REPAIR INDICATED ON THESE REPAIR DRAWINGS WERE DESIGNED TO RESTORE THE BUILDING TO ITS STRUCTURAL INTEGRITY. THE REPAIR HOWEVER, DOES NOT CONSTITUTE AN UPGRADE TO THE BUILDING.
2. THE SUMMARY OF DAMAGE ASSESSMENT FOR THE BUILDING PREPARED BY E A & ENGINEERS IS HEREBY MADE PART OF THESE DRAWINGS.
3. THE CROCS DRAINAGE AND DANS INDICATED ON THESE DRAWINGS REFLAC WHAT HAVE BEEN OBSERVED AT THE TIME OF ASSESSMENT AND THE PREPARATION OF THE REPAIR DRAWINGS.
4. ALL DAMAGES SHALL BE REMOVED AND REPLACE WITH NON-SHRINK CONCRETE.
5. CONCRETE WITH CRACKS DRAINAGE SHALL NOT BE INJECTED WITH EPOXY.

S-1

1. EPOXY FROM LOWEST UNFILLED TO THE NEXT TEL BETWEEN THE EXTENT OF THE CRACK HAS BEEN FILLED.