LEGEND

1. INSTALL WATERPLUG HYDRAULIC CEMENT - (SEE DETAIL A ON SHEET C-3).
2. PROVIDE PIPE SLEEVE REPAIR - (SEE DETAIL B ON SHEET C-3).
3. PROVIDE STRUCTURAL REPAIR - (SEE DETAIL C ON SHEET C-3).
4. PROVIDE CRACK INJECTION REPAIR - (SEE DETAIL D ON SHEET C-3).
5. PROVIDE CONSTRUCTION JOINT SEALING SYSTEM - (SEE DETAIL E ON SHEET C-5).
6. DESIGNATES PHOTO # (SEE PHOTO SHEETS).
7. DESIGNATES UNDERGROUND TUNNEL LOCATION.
8. DESIGNATES WORK AREAS WHERE WATER IS INFLITRATING THROUGH TUNNEL WALLS / CEILING.

CFA I HALL
CFA II ART WORKSHOP
CFA III KHA GALLERY
CFA A REHEARSAL HALL
CFA B CROWELL CONCERT HALL
CFA C WORLD MUSIC STUDIOS
CFA G ART STUDIO NORTH
CFA G ART STUDIO SOUTH
WILLIS
ADDENDUM #1

WATERPLUG HYDRAULIC CEMENT PLACEMENT DETAIL

NOT TO SCALE

NEW UNCOATED LENGTH OF REBAR TO MATCH EXISTING

REPLACEMENT REINFORCING BAR

CONCRETE WALL OR SURFACE (TYP.)

EXISTING REBAR

BAR-LOCK MBT COUPLER (UNCOATED) MECHANICAL SPlice

DIAMOND SAW CUT 3/4" DEEP

REPAIR MORTAR WITH FORMWORK

BAR-LOCK MBT COUPLER DIMENSIONS STANDARD 3/8" SERIES

SIZE LEAD 2 STAIN DIAMETER 1/2 + 2"

4 6 1 1/2

5 6 1 1/2

6 5 1 1/2

7 4 1 1/2

5 1/2 2 1/2

6 1/2 2 1/2

7 1/2 2 1/2

OVER-BUILD AS REQUIRED TO PROVIDE 1" COVER FOR REINF. BAR.

EMACO P22 CEMENTitous COATING

3/4" PLYWOOD FORMWORK WITH SEALED EDGES & JOINTS (PROVIDE AIR VENT / DRAINAGE HOLES)

MECHANICAL SPlice

EXISTING REBAR

REPLACEMENT BAR

LA40 REPAIR MORTAR KURE 200W CURING COMPOUND

LOCKSHEAR BOLTS TO FACE OUTWARD FOR IMPACT WRENCH ACCESS

SPACER WITH CHAMFER STRIP

FADE OUT TO SCALE

PIPE SLEEVE / CABLE REPAIR DETAIL

SIKATOP 122 PLUS REPAIR MORTAR KURE 200W CURING COMPOUND

SIKASWELL S-2 BEAD ALL AROUND CONDUIT / PIPE SLEEVES

EXISTING CONDUIT / PIPE SLEEVES (TYP.) FIELD CONDITIONS VARY / PIPE QUANTITIES VARY

EXISTING CONCRETE WALL (TYPICAL)

3/4" DEEP DIAMOND SAW CUT ALONG ENTIRE PERIMETER OF REPAIR AREA (DO NOT OVERCUT AT CORNER)

SIKASWELL S-2 BEAD ALL AROUND CONDUIT / PIPE SLEEVES

EXISTING CONCRETE WALL (TYPICAL)

4" MIN. COVERAGE OVER DIAMETER OF CONDUIT / CABLE

UNDERCUT OR SQUARE CUT TO OBTAIN SUFFICIENT DEPTH FOR ADHERENCE.

EXISTING CONCRETE WALL / FLOOR / CEILING (TYPICAL)

WATERPLUG HYDRAULIC CEMENT BY THORD CONSUMER PRODUCTS OR APPROVED EQUAL.

TYPICAL ELEVATION

PLANE VIEW

PLANE VIEW

EXISTING CRACK

PROVIDE NEAT, STRAIGHT HYDRAULIC CEMENT TRANSITION LINE ON EITHER SIDE OF EXISTING BREACh

WATERPLUG HYDRAULIC CEMENT TO PROVIDE "SQUARE" OR "RECTANGULAR REPAIR AREA MAINTAIN INTEGRITY OF CONDUIT / CABLE."
1. Using an electric or pneumatic chipping hammer with (1) 1" and (1) 2" points, remove all loose, hollow, or cracked concrete. If a speeding area contains a reinforcing bar that is either partially embedded or fully exposed, use a high volume air blast and water spray to remove the reinforcing bars. Cutouts are to be made to maintain the width of the roadway and surface of sound concrete. All fractured material shall be removed. Full depth cuts shall be made with a diamond saw. All concrete shall be removed along the full depth of the road. Vertical cuts shall be sloped away from the road surface and shall be made at an angle of 45 degrees. All horizontal cuts shall be made at a maximum distance of 1500 square feet. The owner shall perform a visual inspection of the concrete surface after the repair and evaluate the effectiveness of the removal of the repair materials prior to continuation with the repair procedures.

2. Lightly push hammer the concrete surface to provide a minimum anchor or roughness profile with a minimum of 40 psi. Concrete is to be removed to maintain the width of the roadway and surface of sound concrete. All fractured material shall be removed. Full depth cuts shall be made with a diamond saw. All concrete shall be removed along the full depth of the road. Vertical cuts shall be sloped away from the road surface and shall be made at an angle of 45 degrees. All horizontal cuts shall be made at a maximum distance of 1500 square feet. The owner shall perform a visual inspection of the concrete surface after the repair and evaluate the effectiveness of the removal of the repair materials prior to continuation with the repair procedures.

3. When an exposed reinforcing bar has experienced a loss of cross-sectional area due to corrosion, the owner shall perform a visual inspection to determine the necessity for and extent of bar replacement. The contractor shall continue with the repair procedure until this evaluation has been completed.

4. Concrete surfaces to receive repair concrete shall have all contaminants removed such as, rust, dirt, dust, corrosion products and foreign material. Scraping, brushing and low pressure water blasting shall be performed as necessary. Use clean potable water and a low pressure water blast at a maximum pressure of 3000 psi. Water consumption shall be at 4 to 5 gallons per minute. Use a hand-held nozzle. Simultaneously use a wet vacuum to capture all waste water from this activity.

5. Utilize power-assisted hand tools, such as, wire cup wheel and needle gun to clean and remove rust and corrosion products from existing reinforcing bars to remain. Comply with (OSHA) 1926.335(b) of (OSHA). Structural joint and surface preparation should be in accordance with all manufacturers requirements and specifications.

6. Additional reinforcement bars are to be made as shown on the detail sheets and in accordance with all manufacturers installation requirements and specifications.

7. Concrete surfaces shall be provided dual temporary lighting as required to perform the work.

8. Contractor shall provide extension cords rated for equipment.
DETAIL D
CRACK INJECTION DETAIL - SIKADUR CRACK WELD SYSTEM
NOT TO SCALE

DETAIL D1
CONSTRUCTION JOINT WATERSTOP DETAIL - SIKADUR COMBIFLEX SYSTEM
NOT TO SCALE

EXISTING CONCRETE WALL / FLOOR / CEILING (TYPICAL)
EXISTING CRACK

EXISTING CONCRETE WALL / FLOOR / CEILING (TYPICAL)

EXISTING WALL
EXISTING CONTROL JOINT

EXISTING WALL
PROVIDE NEAT, STRAIGHT SIKADOR 31 TRANSITION LINE ON EITHER SIDE OF EXISTING CONTROL JOINT

TYPICAL ELEVATION - CRACK CONDITIONS AND ORIENTATIONS VARY

TYPICAL ELEVATION - CONTROL JOINT CONDITIONS VARY

INJECT SIKADUR INJECTION RESIN INTO INJECTION PORTS. SYSTEM APPLICATION SHALL BE IN ACCORDANCE WITH SIKADUR INSTALLATION REQUIREMENTS

APPLY SIKADUR INJECTION PORTS WITH SIKADUR CAPSEAL, ALSO SEAL SURFACE CRACK WITH SIKADUR CAPSEAL PRIOR TO INJECTION.

SIKADUR COMBIFLEX SYSTEM - 4" HYDRAULIC SHEETING ADHERED WITH SIKADOR 31 HYDROGEL (REFER TO SIIK SPECIFICATION AND SYSTEM CUT SHEETS).