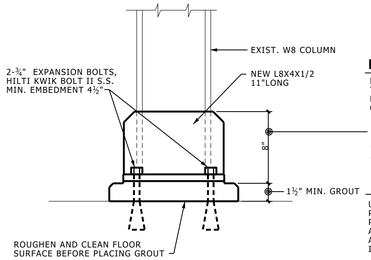


FRONT VIEW

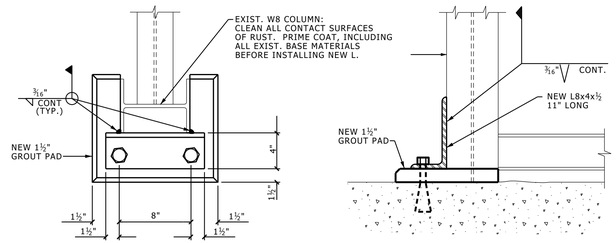
NOTE:

LONG DIMENSION OF NEW L TO PARALLEL TUNNEL C REGARDLESS OF POSITION OF EXISTING COLUMN.

IF HIGHER REINFORCING IS REQUIRED USE C10 X 25 FOR W8 COL., C8 X 18.75 FOR W6 COL.

PAINTING

UP TO 24" ABOVE THE FLOOR, PROVIDE TWO COATS OF "METALLIZE" POLYMER COATING BY DRUMMOND AMERICAN. SURFACE PREPARATION AND APPLICATION PER MANUFACTURER INSTRUCTIONS.



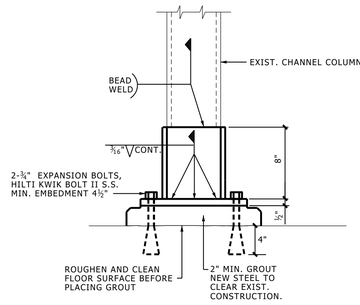
PLAN VIEW

SIDE VIEW

W8 COLUMN BASE REPAIR DETAIL

NO SCALE

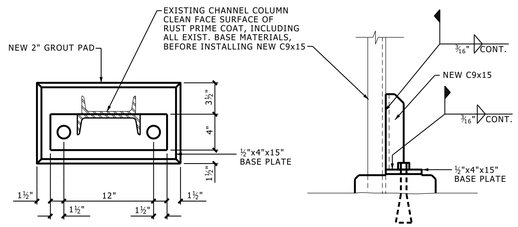
EXISTING CHANNEL OR TUBE/ BASE SHALL BE CUT AND REPLACED WITH NEW.



FRONT VIEW

PAINTING

UP TO 24" ABOVE THE FLOOR, PROVIDE TWO COATS OF "METALLIZE" POLYMER COATING BY DRUMMOND AMERICAN. SURFACE PREPARATION AND APPLICATION PER MANUFACTURER INSTRUCTIONS.

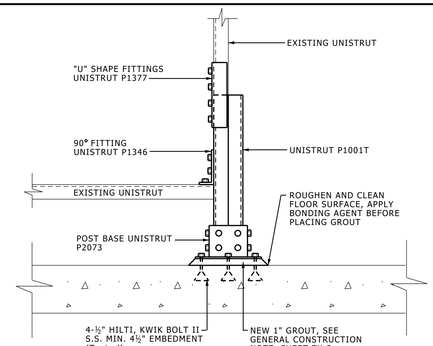


PLAN VIEW

SIDE VIEW

CHANNEL COLUMN BASE REPAIR DETAIL

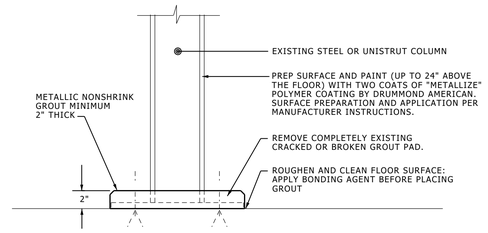
NO SCALE



NOTE:
WHILE DOING THIS WORK, TEMPORARILY SUPPORT ALL ACTIVE LINES TRANSFERRING LOAD TO THE COLUMN, AS REQUIRED

UNISTRUT COLUMN BASE REPAIR DETAIL

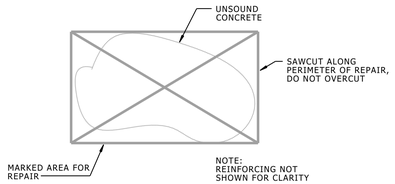
SCALE: 1½" = 1'-0"



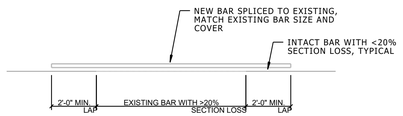
GROUT PAD DETAIL

NO SCALE

STRUCTURAL DETAILS USED TO REINFORCE EXISTING STEEL SUPPORT COLUMNS



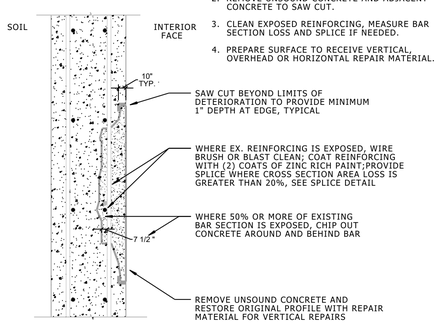
TYPICAL REPAIR ELEVATION



TYPICAL SPLICE DETAIL

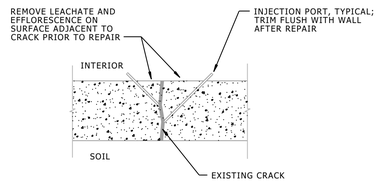
NOTES:

1. SOUND CONCRETE AND MARK LIMITS OF UNSOUND CONCRETE FOR ENGINEER REVIEW PRIOR TO DEMOLITION WORK.
2. REMOVE UNSOUND CONCRETE AND ADJACENT CONCRETE TO SAW CUT.
3. CLEAN EXPOSED REINFORCING, MEASURE BAR SECTION LOSS AND SPLICE IF NEEDED.
4. PREPARE SURFACE TO RECEIVE VERTICAL, OVERHEAD OR HORIZONTAL REPAIR MATERIAL.

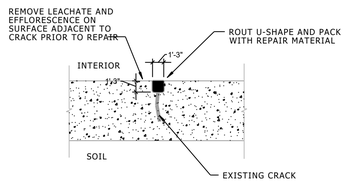


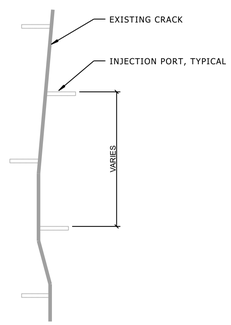
TYPICAL WALL REPAIR SECTION (SLAB SECTION SIMILAR)

NO SCALE



TYPICAL SECTION

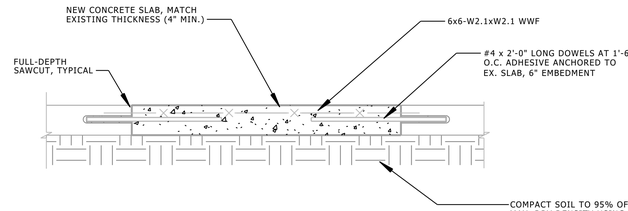


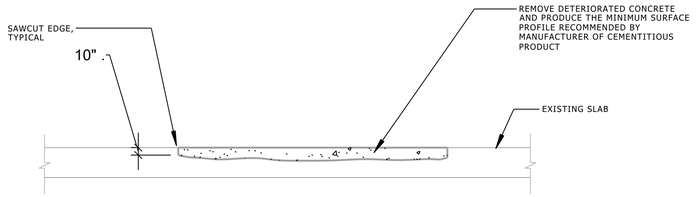


TYPICAL CRACK ELEVATION OR PLAN

DETAIL TEXT

NO SCALE





NOTES:

1. APPLY PRODUCT IN STRICT COMPLIANCE WITH PRODUCT DATA SHEET.
2. USE A TWO-COMPONENT, POLYMER-MODIFIED, CEMENTITIOUS, TROWEL-GRADE PRODUCT SUCH AS SIKATOP 122 PLUS OR EQUAL IN EXTENDED FORM WITH RECOMMENDED 3/8" MAXIMUM SIZE COARSE AGGREGATE AND IN NEAT FORM WITHOUT COARSE AGGREGATE AS INDICATED.
   - A. SIKATOP 122 PLUS (NEAT FORM) UP TO 1" THICKNESS.
   - B. SIKATOP 122 PLUS (EXTENDED FORM) FROM 3" TO 1" THICKNESS

INTERIOR TUNNEL - CONCRETE RESTORATION DETAILS

UNIVERSITY OF MICHIGAN
ARCHITECTURE, ENGINEERING AND CONSTRUCTION
ARCHITECTURE & ENGINEERING
326 East Hoover, Mail Stop B
Ann Arbor, MI 48109-1002
Phone: 734-764-3414
Fax: 734-936-3334

TUNNEL TOOL-KIT

REFERENCE DETAILS, SUPPORTS & SECTIONS

For

Design Professionals Use if Deemed Applicable and Adequate for Project

Not For Construction

UM TUNNEL TOOL KIT REFERENCE DETAILS, SUPPORTS & SECTIONS

FOR DESIGN PROFESSIONAL USE IF DEEMED APPLICABLE & ADEQUATE

APPROVED BY: AEC - Architecture & Engineering

REPRESENTING

AF/BB — DRAWN BY; WPG — PROJECT LEAD

CVW/VSM — DESIGNED BY; REVIEWED BY

MARK	ISSUED FOR/REVISIONS	DATE
•	Posted to Web	10/20/23
•	New Master	06/20/23
•	Draft Master for Review	05/08/23

Tunnels

Tool Kit

University Of Michigan Ann Arbor , MI

UNIVERSITY OF MICHIGAN
ARCHITECTURE, ENGINEERING AND CONSTRUCTION
326 East Hoover, Mail Stop E
Ann Arbor, MI 48109-1002
Phone: 734-763-3020
Fax: 734-763-3238

P0000XXXX — U OF M PROJECT NO.; XXXX — BUILDING NO.

SHEET TITLE: **Tunnels**

Existing Pipe Support Repair & Concrete Restoration - Typical Details

SHEET NO.

TK-7

SHEET NO. 9 OF 13 SHEET FILE NO. TK-7 04 15.dgn

10/19/2023 1:46:44 PM pschmand Q:\AES\PROJECT TYPES\TUNNELS\TUNNEL TOOL-KIT\CAD\TK-07_Rev 2023_10_20.dgn