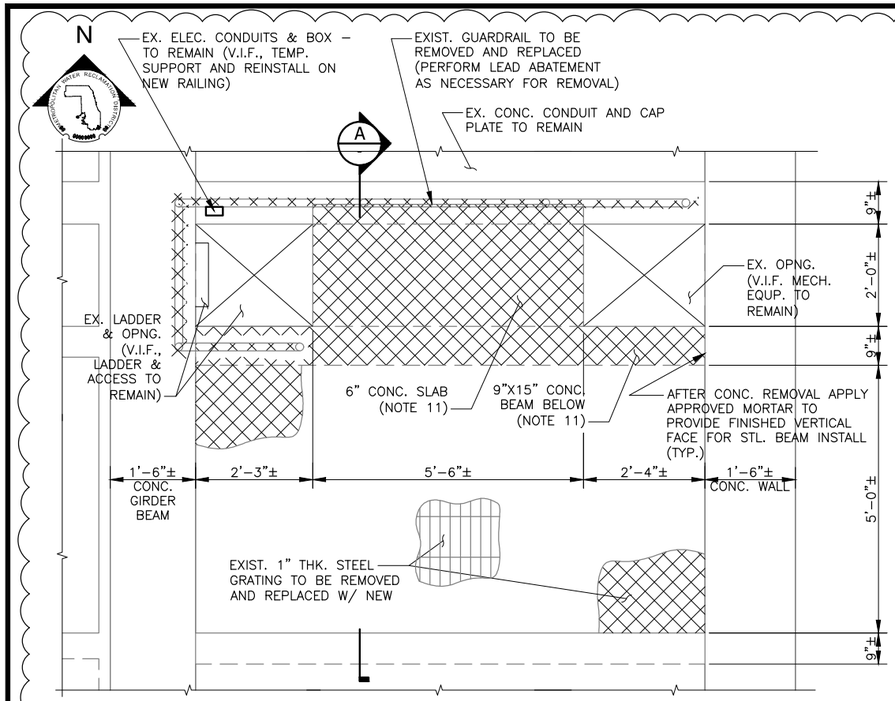
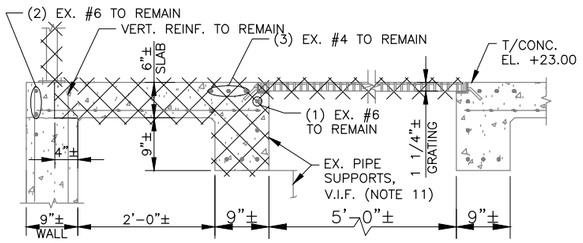
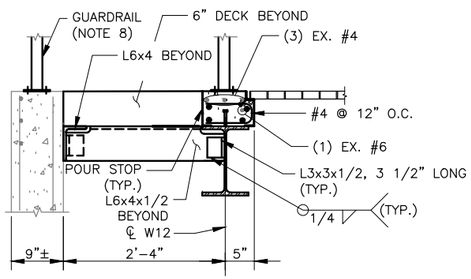


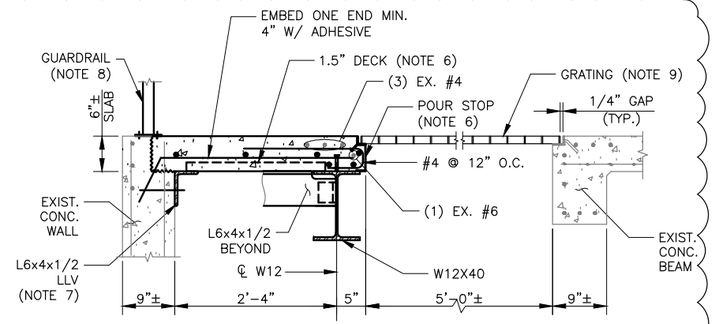
1 SELECTIVE DEMOLITION - PARTIAL PLAN OPERATING GALLERY A, AT E. END (T/EX. CONC. EL. +23'-0" +/-)
SCALE: 3/4" = 1'-0"



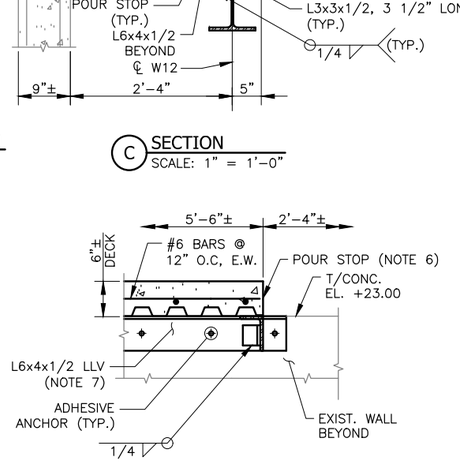
A SECTION
SCALE: 1" = 1'-0"



C SECTION
SCALE: 1" = 1'-0"



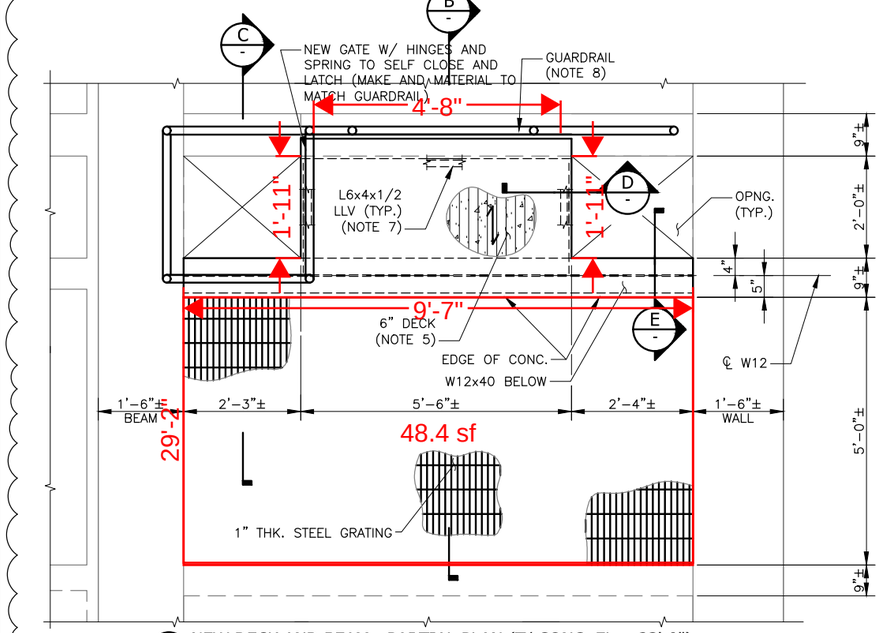
B SECTION
SCALE: 1" = 1'-0"



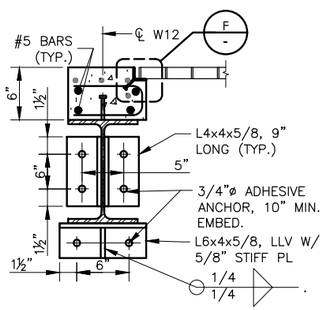
D SECTION
SCALE: 1" = 1'-0"

NOTES:

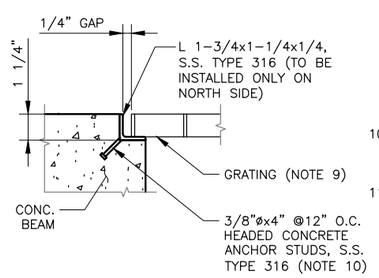
1. SEE S–001 THROUGH S–003 FOR ADDITIONAL NOTES.
2. CONTRACTOR SHALL PROVIDE ALL TEMPORARY SHORING REQUIRED TO ENSURE SAFETY AND STABILITY OF SUPPORTED UTILITIES, EQUIPMENT, STRUCTURES, ETC. PRIOR TO BEGINNING DEMOLITION. PROVIDE TEMPORARY PROTECTIVE SHIELD TO PROTECT EXISTING STRUCTURES, EQUIPMENT, UTILITIES ETC. FROM DAMAGE AND TO COLLECT DEBRIS.
3. REMOVAL OF CONCRETE SHALL BE CAREFULLY PERFORMED USING 15 LBS PNEUMATIC HAMMERS. NEATLY SAW CUT ALL EDGES WHERE ADJACENT CONCRETE IS TO REMAIN. OVER–CUTTING AT CORNERS IS NOT PERMITTED.
4. EXISTING FACES OF CONCRETE TO REMAIN SHALL BE SCARIFIED TO ¼" AMPLITUDE PRIOR TO POURING NEW CONCRETE.
5. DEPTH OF NEW DECK SHALL BE 6" (1.5" METAL DECK + 4.5" CONC. TOPPING). U.N.O., TYPICAL REINFORCEMENT IS #6@12" EACH WAY. PLACE CONCRETE INSIDE METAL DECK FLUTES. UNLESS NOTED OTHERWISE, T/CONC. TOPPING EL. = +23'–0".
6. NEW METAL DECK SHALL BE 16 GAUGE GALVANIZED METAL DECK (1.5" THICKNESS).
   A. PROVIDE 2" MINIMUM METAL DECK BEARING AT END SUPPORTS.
   B. PROVIDE #10 TEK SCREWS AT 9" SPACING AT ALL LOCATIONS (END LAP AND SIDE LAP) WHERE DECK BEARS ON STRUCTURAL STEEL.
   C. FASTEN SIDE LAPS OF DECK WITH #10 TEK SCREWS AT A MAX. SPACING OF 9" O.C.
   D. METAL DECK SHALL BE VULCRAFT 1.5C–36, NEW MILLENNIUM TYPE 1.5FD, OR APPROVED EQUAL.
   E. U.N.O., WELD 16 GAUGE STEEL SHEET EDGE FORM/POUR STOPS TO SUPPORTING STRUCTURE ACCORDING TO SDI RECOMMENDATIONS.
7. U.N.O., LEDGE ANGLES SHALL BE L6x4x1/2, LLV, T/STEEL EL. = +22'–6" FOR LEDGE ANGLES SUPPORTING 1.5" METAL DECK.
   A. ATTACH LEDGE ANGLE TO CONCRETE USING A MIN. OF 3/4"ø ADHESIVE ANCHORS @ 12" O.C., 6" MIN. EMBED. PROVIDE ANCHORS @ 3" FROM ENDS OF LEDGE ANGLE. CENTER ANCHORS ON VERTICAL LEG OF LEDGE ANGLE.
8. SEE S–011 FOR RAILING DETAILS AND NOTES. CONTRACTOR TO FIELD VERIFY LENGTH OF RAIL REQUIRED. EX. RAILING ANCHORS WHERE NOT FULLY REMOVED SHALL BE CUT FLUSH.
9. STEEL GRATING SHALL BE SERRATED WELD–FORGED WELDED RECTANGULAR DESIGN, TYPE WB AS MANUFACTURED BY IKG INDUSTRIES. MAIN BEARING BARS SHALL BE 1–1/4" SPACED AT 1–3/16" C/C. CROSS BARS SHALL BE RESISTANCE WELDED AT RIGHT ANGLES TO THE MAIN BEARING BARS AND SHALL BE SPACED AT 4" C/C. FINISH SHALL BE HOT–DIP GALVANIZED. PERIMETER OF ALL GRATINGS AND GRATING PENETRATIONS SHALL BE BANDED WITH 1 1/2"X1/4" PLATE. ATTACH GRATING TO FRAME WITH C–CLIP FASTENERS WITH SADDLE CLIPS @ 18" MAX. C/C. GRATING HOLD DOWNS SHALL BE GALVANIZED AND NOT REQUIRE DRILLING OF HOLES. A MINIMUM OF 4 CLIPS SHALL BE PROVIDED PER GRATING SECTION. SEE S–002 FOR ADDITIONAL NOTES. PROVIDE NEW LEDGE ANGLES PER NOTE 7, ABOVE, IF REQUIRED TO SUPPORT ALL 4 SIDES OF GRATING.
10. U.N.O., HEADED CONCRETE ANCHOR STUDS SHALL BE 3/8"øx4" @12" O.C. STAINLESS STEEL TYPE 316, AND SHALL CONFORM TO AWS D1.1 & D1.6, LATEST EDITION. WELD STUDS TO ANGLE PER AWS D1.1.
11. NOT ALL EXISTING PIPE AND EQUIPMENT SUPPORTS ATTACHED TO CONCRETE BEAM AND SLAB TO BE REMOVED ARE SHOWN. CONTRACTOR SHALL FIELD VERIFY EXISTING SUPPORTS AND TEMPORARILY SUPPORT PIPES, EQUIPMENT, ETC. PRIOR TO CONCRETE REMOVAL. REPLACE ALL SUPPORTS WITH NEW SUPPORTS DESIGNED BY CONTRACTOR'S LICENSED SE. SUPPORTS SHALL NOT BE ATTACHED TO METAL DECK.



2 NEW DECK AND BEAM - PARTIAL PLAN (T/ CONC. EL. +23'-0")
SCALE: 3/4" = 1'-0"

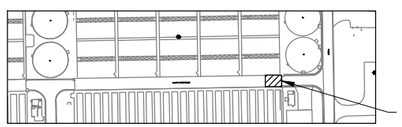


E SECTION
SCALE: 1–1/2" = 1'–0"

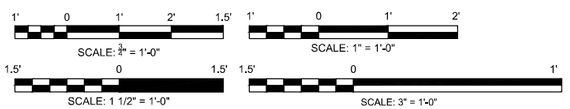


F DETAIL
SCALE: 3" = 1'–0"

LEGEND:
- NEW OR EXISTING BACKGROUND
- NEW WORK
- REMOVAL WORK



KEY PLAN



Rev.	Description	Appr.	Date
1	ADDENDUM NO. 1	GRR	12/2024

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

Designed by: PA | Checked by: VP | Date: 2024 | Correct: Engineer of Structurol – Architectural Design
Drawn by: PA | Reviewed by: GRR | Scale: AS SHOWN
Drawing code:

CONTRACT 20–087–3P
CHEMICAL PHOSPHORUS REMOVAL
TERRENCE J. O'BRIEN WATER RECLAMATION PLANT
OPERATING GALLERY A – CONCRETE BEAM REPAIR

Sheet Number: S–801
Page Number: 65