CONCRETE

1. 28-DAY CAST-IN-PLACE CONCRETE STRENGTHS
   TYPICAL
   CONCRETE FILL: 4300 PSI
   CURB AND GUARDRAILS: 2500 PSI
   CURB ENCUMENTS: 3000 PSI
   CONCRETE FOUNDATIONS: 3000 PSI

2. REINFORCING STEEL
   TYPICAL
   ASTM A416, GRADE 60

3. FABRICATION AND PLACEMENT OF REINFORCING STEEL SHALL BE
   IN ACCORDANCE WITH DES MSHS I Manual of Practice,
   AND AS D "SPECIFICATIONS FOR STRUCTURAL, CONCRETE
   AND CURB AND GUARDRAILS".

4. CONSTRUCTION JOINTS INDICATED ARE SUGGESTED LOCATIONS.
   CONCRETE FOR BUILDING.

5. ROUGHEN AND CLEAN ALL CONSTRUCTION JOINTS IN WALLS
   AND EMBED PLATES AND ANGLES TO AVOID SPALLING OR
   PROJECTION OF THE CONTRACTOR.

6. CONCRETE REINFORCING STEEL:

   3. ALL BENDS, UNLESS OTHERWISE SHOWN, SHALL BE 90 DEGREE
      ACI 318 STANDARD HOOKS.

   5. ADJACENT REINFORCEMENT BENDS AND LAPS, UNLESS OTHERWISE
      NOTED.

   7. LAP SPACES SHALL SATISFY THE FOLLOWING MINIMUM REQUIREMENTS:

<table>
<thead>
<tr>
<th>BAR SIZE</th>
<th>#1</th>
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<tbody>
<tr>
<td>4' TOP BAR</td>
<td>5.0</td>
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   1. CLEARANCE FOR REINFORCEMENT BARS, UNLESS SHOWN OTHERWISE, SHALL BE:
      WHEN PLACED ON GROUND:
      ALL OTHER CONCRETE SURFACES:
      #1 BAR OR SMALLER:
      # BAR OR LARGER:

   2. REFER TO WALL CORNER AND WALL INTERSECTION REINFORCING
      DETAIL, CONSTRUCTION SECTIONS AND PLACED AT ALL FIELD WELDS.

   3. ALL BENDS, UNLESS OTHERWISE SHOWN, SHALL BE 90 DEGREE ACI
      318 STANDARD HOOKS.

   4. ADDITIONAL REQUIREMENT SHALL BE PROVIDED AT PIPE
      PENETRATIONS AND OPENINGS AS SHOWN IN THE DRAWINGS.

   5. ALL CONCRETE JOINTS INDICATED ARE SUGGESTED LOCATIONS.
   6. COMPLIANCE WITH THE AISC MANUAL OF STEEL CONSTRUCTION,
      OTHER BAR SPACING
   7. FORMWORK, SHORING AND BRACING

   1. THE STRUCTURES SHOWN ON THE DRAWINGS HAVE BEEN DESIGNED FOR
      STABILITY UNDER SAFETY INDEX, UNLESS SHOWN OTHERWISE.

   2. NO ALUMINUM CONDUIT OR PRODUCTS CONTAINING ALUMINUM OR ANY
      OTHER MATERIAL INJURY TO THE CONCRETE SHALL BE EMBEDDED
      IN THE CONCRETE.

   3. CONCRETE FOR BUILDING.

   4. NO ALUMINUM CONDUIT OR PRODUCTS CONTAINING ALUMINUM OR ANY
      OTHER MATERIAL INJURY TO THE CONCRETE SHALL BE EMBEDDED
      IN THE CONCRETE.

   5. CONCRETE FOR BUILDING.

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PIPE AND FITTING SYMBOLS

EXISTING PIPE
NEW PIPE
EXISTING PIPE TO BE ABANDONED
EXISTING PIPE TO BE REMOVED
WELDED JOINT
GROOVED END JOINT
FLANGED JOINT
MECHANICAL JOINT & PROPRIETARY RESTRAINED JOINT
BELL & SPIGOT JOINT (LEADED)
S/S JOINT
ADAPTER SIDE:
GROOVED END ADAPTER FLANGE
FLANGED COUPLING ADAPTER
FLEXIBLE COUPLING
METAL BELLOWS EXP JOINT
ELASTOMER BELLOWS EXP JOINT
ELBOW UP
ELBOW DOWN
TEE UP
TEE DOWN
LATERAL UP
LATERAL DOWN
CONCENTRIC REDUCER
ECENTRIC REDUCER
GATE
KNIFE GATE
BUTTERFLY
GLOBE
BALL
SEATING PORT
ECENTRIC PLUG
PLUG OR COCK
NEEDLE
DIAPHRAGM
PINCH
SWING CHECK
BALL CHECK
AIR / VACUUM RELIEF

MECHANICAL LEGEND AND NOTES

1. LAY PIPE TO UNIFORM GRADE BETWEEN INDICATED ELEVATION POINTS.
2. LOCATION AND NUMBER OF PIPES, HANGERS AND PIPE SUPPORTS SHOWN IS ONLY APPROXIMATE. CONTRACTOR SHALL DESIGN SUPPORTS PER SPECIFICATIONS.
3. THE SAME AS SHOWN FOR ADJACENT STRAIGHT RUN OF PIPE. PIPE DIAMETER WHERE A FLANGED COUPLING ADAPTER IS SHOWN, A STANDARD 90 DEGREE ELBOW IS SHOWN AND ALIGNED AND/OR SCREENED AND IS NOTED AS EXISTING. NEW PIPING AND EQUIPMENT IS SHOWN HEAVY-LINED.
4. THE SAME AS SHOWN FOR ADJACENT STRAIGHT RUN OF PIPE. SIZE OF FITTINGS SHOWN ON DRAWINGS SHALL CORRESPOND TO ADJACENT STRAIGHT RUN PIPE AND FITTINGS. ALL UNION MATERIALS NECESSARY TO FACILITATE CONVENIENT REMOVAL OF VALVES AND EQUIPMENT. ALL UnIONS NECESSARY TO FACILITATE CONVENIENT REMOVAL OF VALVES AND EQUIPMENT. THE NUMBER AND LOCATION OF UnIONS SHOWN ON DRAWINGS IS ONLY APPROXIMATE. PROVIDE ALL UnIONS NECESSARY TO FACILITATE CONVENIENT REMOVAL OF VALVES AND EQUIPMENT.
5. ALL JOINTS SHALL BE WATERTIGHT. ALL PIPES SHALL BE USED WHEREVER PIPING PASSES FROM A STRUCTURE TO BACKFILL. LAY PIPE TO UNIFORM GRADE BETWEEN INDICATED ELEVATION POINTS.
6. PIPE AND FITTING SYMBOLS SHOWN HERE FOR SINGLE LINE FITTINGS ARE GENERIC ONLY. REFER TO PIPING SPECIFICATIONS FOR SPECIFIC END CONNECTIONS FOR SINGLE LINE PIPE AND FITTINGS. SPECIFICATIONS SHOWN HERE FOR DOUBLE LINE FITTINGS. SPECIFICATIONS SHOWN HERE FOR DOUBLE LINE FITTINGS. SPECIFICATIONS SHOWN HERE FOR DOUBLE LINE FITTINGS. SPECIFICATIONS SHOWN HERE FOR DOUBLE LINE FITTINGS. SPECIFICATIONS SHOWN HERE FOR DOUBLE LINE FITTINGS. SPECIFICATIONS SHOWN HERE FOR SINGLE LINE FITTINGS ARE GENERIC ONLY. REFER TO PIPING SPECIFICATIONS. SPECIFICATIONS SHOWN HERE FOR SINGLE LINE FITTINGS ARE GENERIC ONLY. REFER TO PIPING SPECIFICATIONS. SPECIFICATIONS SHOWN HERE FOR SINGLE LINE FITTINGS ARE GENERIC ONLY. REFER TO PIPING SPECIFICATIONS. SPECIFICATIONS SHOWN HERE FOR SINGLE LINE FITTINGS ARE GENERIC ONLY. REFER TO PIPING SPECIFICATIONS. SPECIFICATIONS SHOWN HERE FOR SINGLE LINE FITTINGS ARE GENERIC ONLY. REFER TO PIPING SPECIFICATIONS. SPECIFICATIONS SHOWN HERE FOR SINGLE LINE FITTINGS ARE GENERIC ONLY. REFER TO PIPING SPECIFICATIONS. SPECIFICATIONS SHOWN HERE FOR SINGLE LINE FITTINGS ARE GENERIC ONLY. REFER TO PIPING SPECIFICATIONS. SPECIFICATIONS SHOWN HERE FOR SINGLE LINE FITTINGS ARE GENERIC ONLY. REFER TO PIPING SPECIFICATIONS.
CIVIL GENERAL NOTES

DESIGN CRITERIA

1. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONARY MEASURES NEEDED TO PROTECT EXISTING IMPROVEMENTS WHICH ARE TO REMAIN IN PLACE FROM DAMAGE. ALL IMPROVEMENTS DAMAGED BY THE CONTRACTOR'S OPERATIONS SHALL BE EXPEDITIOUSLY REPAIRED OR RECONSTRUCTED AT THE CONTRACTOR'S EXPENSE WITHOUT ADDITIONAL CHARGE.

2. THE CONTRACTOR SHALL PROVIDE A MINIMUM OF 36 MONTHS OF COVER EXCEPT FOR CAST-IN-PLACE CONCRETE OR OTHER SUITABLE DISPOSAL SITES AT THE CONTRACTOR'S EXPENSE.

3.ニー THE CONTRACTOR SHALL PROTECT ALL REMAINING EXISTING UTILITIES. THE CONTRACTOR SHALL SUBMIT AN EROSION CONTROL PLAN FOR REVIEW AND APPROVAL BY THE ENGINEER PRIOR TO THE START OF CONSTRUCTION.

4. THE CONTRACTOR SHALL PROVIDE PRECAUTIONARY MEASURES NECESSARY TO PROTECT UTILITY LINES WITHIN 6 FEET OF PIPE AND SANITARY SEWERS.

5. THE CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES IN AND AROUND THE AREAS OF NEW STRUCTURE.

6. THE CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES PRIOR TO SUBMITTAL OF SHOP DRAWINGS, FOR POINTS OF CONNECTION. CONTRACTOR SHALL PROVIDE POTHOLE DATA TWO WEEKS PRIOR TO THE START OF CONSTRUCTION.

CIVIL GENERAL NOTES - CONTINUED

1. THE CONTRACTOR SHALL SUBMIT EROSION CONTROL PLANS FOR REVIEW DURING THE DESIGN PHASE AND APPEND A TYPICAL EROSION CONTROL PLAN TO THE CONTRACTORS PROPOSAL PRIOR TO THE START OF CONSTRUCTION.

2. THE CONTRACTOR IS RESPONSIBLE FOR IMPLEMENTATION AND MAINTENANCE OF THE EROSION CONTROL MEASURES CONTAINED WITHIN THE CONTRACTS PROPOSAL OR REQUIRED BY THE CITY, COUNTY, OR OTHER REGULATORY AUTHORITY. THE CONTRACTOR SHALL MAINTAIN EROSION CONTROL MEASURES IN CONFORMANCE WITH CALIFORNIA DEPARTMENT OF WATER RESOURCES SATELLITE EROSION CONTROL ORDINANCE OR OTHER SUITABLE DISPOSAL SITES IN AND AROUND ANY PHASE OF CONSTRUCTION OPERATIONS.

3. THE CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES WITHIN 6 FEET OF PIPE AND SANITARY SEWERS. THE CONTRACTOR SHALL SUBMIT AN EROSION CONTROL PLAN FOR REVIEW AND APPROVAL BY THE ENGINEER PRIOR TO THE START OF CONSTRUCTION.

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CIVIL GENERAL NOTES - CONTINUED

1. THE CONTRACTOR SHALL SUBMIT EROSION CONTROL PLANS FOR REVIEW DURING THE DESIGN PHASE AND APPEND A TYPICAL EROSION CONTROL PLAN TO THE CONTRACTORS PROPOSAL PRIOR TO THE START OF CONSTRUCTION.

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1. AC Paved areas disturbed by construction must be repaired with new AC pavement. See details.
2. All existing facilities and all existing features shall be protected in place.

**General Sheet Notes**

1. For pavement replacement, the pavement and aggregate base thickness shall match existing thicknesses plus 1 inch, or as shown hereon, whichever is greater. Match existing line and grade when replacing pavement.

**AC Pavement Section**

- **Approximate Limits to Saw Cut Existing AC Pavement**
  - 4" thick and reinforced (W25A-BAR reinforcing)
  - Contractor to field verify limits shown and saw out to the nearest joint. Contractor shall replace removed concrete slab section to match existing along with existing grades and limits.

**Chemical Storage Area**

- **Approximate Limits Where Concrete Surface Edge Meets Paved Surface**
  - 4" thick and reinforced (WWF 4x4-W4xW4)
  - Concrete slab, contractor to field verify limits shown and saw cut to the nearest joint. Contractor shall replace removed concrete slab section to match existing along with existing grades and limits.

**New Guard Posts**

- **Approximate Limits to Saw Cut Existing Concrete Pavement**
  - Contractor to field verify limits shown.
**GENERAL SHEET NOTES**

1. **REMOVE ALL EXISTING PIPING ACCESSORIES (SUCH AS LOCATION WIRES)**
2. PIPE MATERIAL FOR EXISTING 8" RMP AND 6" RMC IS PVC C900 WITH DUCTILE IRON FITTINGS (CEMENT LINED PER AWWA C104) WITH MECHANICAL JOINTS.
3. FOR ALL BURIED DUCTILE IRON AND STEEL PIPE AND FITTINGS PROVIDE CP TEST STATIONS.
4. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING INFORMATION SHOWN.

---

**EXISTING BURIED PIPING DETAIL**

**REJECT RECOVERY FACILITY**

**FFE=1450.25**

**REQUIREMENTS**

- REMOVE ALL EXISTING PIPING ACCESSORIES (SUCH AS LOCATION WIRES)
- PIPE MATERIAL FOR EXISTING 8" RMP AND 6" RMC IS PVC C900 WITH DUCTILE IRON FITTINGS (CEMENT LINED PER AWWA C104) WITH MECHANICAL JOINTS.
- FOR ALL BURIED DUCTILE IRON AND STEEL PIPE AND FITTINGS PROVIDE CP TEST STATIONS.
- CONTRACTOR SHALL FIELD VERIFY ALL EXISTING INFORMATION SHOWN.

**EXISTING CONCRETE SURFACE**

- **8" RMP**
- **6" RMC (CO RISER)**

**NEW CHANNEL**

- REMOVE THE EXISTING 45° ELBOW AND REPLACE WITH A 90° ELBOW. MATCH EXISTING PIPE JOINTS AND FITTINGS
- REMOVE CO VERTICAL SPOOL (RISER), 45° ELBOWS AND SHORT SPOOL PIECES AND REPLACE THEM WITH NEW CO RISER (MATCHING EXISTING) AND 90° ELBOW. CONNECT THE NEW ITEMS TO THE EXISTING 6" RMC. REPLACE THE WALLET PER DETAIL 1 ON DWG C-4
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- REMOVE THIS SECTION OF THE EXISTING 8" RMP AND REPLACE AS SHOWN ON DWG C-4
- REMOVE THE EXISTING 8" BUTT AND REPLACE AS SHOWN ON DWG C-4 AND M-1
- REMOVE AND REPLACE EXISTING BLOWOFF HEAD
- REMOVE EXISTING 6" PIPE TO THE BLOWOFF AND REPLACE AS SHOWN ON DWG C-4 AND M-1
- REMOVE THIS SECTION OF THE EXISTING 8" RMP AND REPLACE AS SHOWN ON DWG C-4
- REMOVE THE EXISTING 10" RJT AND REPLACE AS SHOWN ON DWG C-4 AND M-1
- REMOVE EXISTING 6" PIPE TO THE BLOWOFF AND REPLACE AS SHOWN ON DWG C-4 AND M-1
- REMOVE EXISTING CONCRETE SLAB FOR MEMBRANE MAINTENANCE
- REMOVE THIS SECTION OF THE EXISTING 8" RMP AND REPLACE AS SHOWN ON DWG C-4

**NEW CHANNEL**

- REMOVE AND REPLACE EXISTING BLOWOFF HEAD
- REMOVE EXISTING 6" PIPE TO THE BLOWOFF AND REPLACE AS SHOWN ON DWG C-4 AND M-1
- REMOVE THE EXISTING 10" RJT AND REPLACE AS SHOWN ON DWG C-4 AND M-1
- REMOVE EXISTING CONCRETE SURFACE

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**SCALE: 1" = 5'-0"**

**DENOTES DEMOLITION**

**CIVIL**

**YARD PIPING DEMOLITION**

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**FS**

**CQ**

**CIVIL**

**SM**

**C-3**

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**PW\: PROJECTWISE.CH2M.COM: DWG003\: DOCUMENTS\: W9Y24400 - PWPF REJECT RECOVERY FACILITY SETTLING CHANNEL DESIGN\: DRAWINGS**

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**Greg Kowalski, P.E.**

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**Joe Mouawad, P.E.**

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**12/19**

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**12/03/19**
STRUCTURAL
OVERALL PLAN
GENERAL SHEET NOTES

1. WALL CORNER REINFORCING, SEE , TYP ALL CORNERS.

2. HYDROPHILIC WATERSTOP AT EXISTING NEW WALL AND SLAB INTERFACES, SEE .

3. SLOPE NEW FOUNDATION SLAB TO SUMP AS SHOWN, OR GROUT FILL TO ACHIEVE SLOPE. FOR KEY, SEE .

4. #7 @ 6" ADHESIVE DOWELS INTO EXST WALL INTERFACES, FULL HEIGHT, SEE .

5. #8 @ 6" ADHESIVE DOWELS INTO EXST BOTTOM SLAB INTERFACES, SEE . BOTTOM SLAB DOWEL LOCATION EXTENDS TO BE LIMITED TO THE CENTER OF THE EXTERIOR WALLS.
GENERAL NOTES

1. CUT 2'-6" WIDE X 3'-0" HIGH WALL PENETRATION FOR NEW WEIR GATE. TOP OF PENETRATION TO BE AT BOTTOM OF TOP SLAB. REFER TO SPECIFICATION 0330-101, CAST-IN-PLACE CONCRETE, FOR REPAIR OFEXISTING CONCRETE SURFACE AFTER CUTTING OPENING TO CUT BACK EXISTING REBAR.

2. TOP SLAB TO SLOPE AT SAME PITCH AS EXT.

3. REMOVE EXTG HANDRAIL AT SOUTH AND EAST SIDES ALONG EXTG CONCRETE WALL EDGES, REUSING AS MUCH AS POSSIBLE, SEE PHOTOS 1-4 ON DWG S-7. SEE NOTE 6 FOR CONCRETE REPAIR.

4. FOR CONCRETE REPAIR OF REMOVED ITEMS, INCLUDING HANDRAIL POSTS AND LIGHT POLE ANCHORAGES, SEE REQUIREMENTS IN SPECIFICATION SECTION 03300, CAST-IN-PLACE CONCRETE (ARTICLE REMOVAL OF EXISTING CONCRETE MASONRY OR GROUT).

5. ROUGHEN EXTG CHAMFER ON SIDES ADJACENT TO NEW SLAB. POUR NEW CONCRETE OVER CHAMFER TO ELIMINATE TRIPPING HAZARD.

6. REFER TO MECHANICAL FOR SWING GATE INFORMATION RELOCATING AND RECONFIGURING AT NEW OUTSIDE WALL FACE ALONG NEW HANDRAIL ALIGNMENT.

NEW 2-RAIL HANDRAIL AT TOP OF NEW WALLS, SEE DETAIL 1 ON DWG S-5-4 FOR CONCRETE REPAIR.

NEW 2-RAIL HANDRAIL, AT SOUTH AND EAST SIDES ALONG EXITS CONCRETE WALL EDGES. REUSING AS MUCH AS POSSIBLE, SEE PHOTOS 1-4 ON DWG S-7. SEE NOTE 6 FOR CONCRETE REPAIR.

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12/03/2019
Greg Kowalski, P.E.

Joe Mouawad, P.E
12/19

SECTION
S-4

NOTE:

1. COORDINATE DIMENSIONS WITH GATE MFR AND ADJUST SIZE OF AL PLANK GRATING ACCORDINGLY. COORDINATE SIZE AND LOCATION OF SLOTS FOR GATE FRAME AND U-OPENING FOR GATE STEM WITH GATE MFR.
NOTE 1: SECTION APPLIES TO PIPES IN DIAMETERS 18" AND SMALLER.

1. CONC FILL OR GROUT KEY.

REFER TO SPECIFICATION (0330), CAST-IN-PLACE CONCRETE FOR BONDING AGENT. TYP AT TOP AND BOTTOM SLABS AND WALL INTERFACES.

1'-6" WALL JOINT WITH WATERSTOP CONTINUOUS ALONG WALLS IN ALL CONSTRUCTION JOINTS

TYPICAL PIPE ENCAVmNT REINF

PROVIDE LEVEL BEARINGS AREA BELOW VERT PIPE RISER CLASS V MASON (COHEN) FOR PIPE ENCAVmNT

4" SLAB THICKNESS

8" MIN ALL AROUND #5 TIES @12" LAP LENGTH, SEE GENERAL STRUCTURAL NOTES

#5 TIES @12" FOR 2 CORNERS OF SUMP

TYPICAL OPENING REINF

AROUND PIPE SEE

TYPICAL PIPE ENCANCEMENT REINF

PROVIDE LEVEL BEARINGS AREA BELOW VERT PIPE RISER CLASS V MASON (COHEN) FOR PIPE ENCANCEMENT RISER

8" MIN ALL AROUND 2'-0" EACH SIDE

4" DRAIN PIPE PIPE ENCAVmNT RISER

NOT SHOWN FOR CLARITY

#5@12" FOR 2 CORNERS OF SUMP

TYPICAL SLAB REINF. SEE

NOTES
After new concrete channel wall is in place, add AL angle support under extg serrated walkway grating. Cut extg AL support beam to end of new concrete channel wall. Use same type of beam-to-wall AL plate connection as exists now at end of cut AL beam. Replace sections of serrated grating that extg handrail posts were anchored to eliminate trip hazard. Connect new handrail to existing on the platform for alignment as shown on Dwg S-3, Top Plan.

Connect (cut) extg AL beam to new concrete channel wall extension with:
- Using same conn as extg. See photos 5 and 6 on Dwg S-7. Contractor to provide temporary support of extg beam and platform structure prior to cutting beam.
- See photos 7 and 8 on Dwg S-7. Contract to provide protection of aluminum surfaces in contact with concrete in accordance with specification section 09 90 00, painting and coating.

Cut extg AL beam. See photos 5 and 6 on Dwg S-7. Extg AL C10 x 5.28 (cut extg at new channel wall)

1 1/4" AL serrated grating, match extg style and material
Extg AL 4 x 3 x 1/4 (LLV) angle support under grating along face of new channel extension. Anchor to concrete wall with 1 1/4" AL serrated grating. Match extg style and material. 4 - 3/4" SST HILTI HIT-RE 500-SD adhesive anchors with 5 1/2" min embed.

Provide protection of aluminum surfaces in contact with concrete in accordance with specification section 09 90 00, painting and coating.

New AL 4 x 3 x 1/4 (LLV) angle support under grating along face of new channel extension. Anchor to concrete wall with 1 1/4" AL serrated grating. Match extg style and material. 4 - 3/4" SST HILTI HIT-RE 500-SD adhesive anchors with 5 1/2" min embed.

Prepare temporary support of extg beam and platform structure prior to cutting beam.
1. HANDRAIL MODIFICATIONS

   REMOVE EXTG HANDRAIL AT NORTH SIDE ALONG GRATED WALKWAY AND AT EAST AND SOUTH SIDES ALONG EXTG OUTSIDE FACE OF WALLS

   HANDRAIL MODIFICATIONS

   REMOVE EXTG HANDRAIL AT ENTIRE EAST AND SOUTH SIDES ALONG EXTG OUTSIDE FACE OF WALL

   REMOVE EXTG HANDRAIL AT SOUTH SIDE ALONG EXTG OUTSIDE FACE OF WALL

2. HANDRAIL MODIFICATIONS

   HANDRAIL MODIFICATIONS

   REMOVE EXTG HANDRAIL AT NORTH SIDE ALONG GRATED WALKWAY AND AT EAST AND SOUTH SIDES ALONG EXTG OUTSIDE FACE OF WALLS

   PLATFORM BEAM TO BE SHORTENED AT NEW CHANNEL WALL

   PLATFORM BEAM CONN TO CONC WALL

   CONTRACTOR TO PROVIDE TEMPORARY SUPPORT OF EXTG FRAMING SYSTEM DURING CONSTRUCTION OF NEW CHANNEL WORK

3. HANDRAIL MODIFICATIONS

   HANDRAIL MODIFICATIONS

   HANDRAIL MODIFICATIONS

   REMOVE EXTG HANDRAIL AROUND (2) ACCESS HATCHES TO REMAIN

4. HANDRAIL MODIFICATIONS

   REMOVE EXTG HANDRAIL AROUND (2) ACCESS HATCHES TO REMAIN

   USE AL 4 x 3 x 1/4 (LLV) ANGLE SUPPORT UNDER GRATING ALONG FACE OF NEW CHANNEL EXTENSION.

   ANGLE SUPPORT UNDER GRATING

5. HANDRAIL MODIFICATIONS

   PLATFORM BEAM CONN TO CONC WALL

   PLATFORM BEAM CONN AND H.R. POST TO CONC WALL

   USE SAME CONN AS EXTG OUTSIDE FACE OF NEW CHANNEL, SEE

6. HANDRAIL MODIFICATIONS

   PLATFORM BEAM TO BE SHORTENED AT NEW CHANNEL WALL

   PLATFORM BEAM CONN TO CONC WALL

   CONTRACTOR TO PROVIDE TEMPORARY SUPPORT OF EXTG FRAMING SYSTEM DURING CONSTRUCTION OF NEW CHANNEL WORK

   TO ELIMINATE TRIP HAZARD REPLACE SECTIONS OF SERRATED GRATING THAT EXTG HANDRAIL POSTS ARE CONNECTED TO TOPS OF FRAMING BEAMS.

7. HANDRAIL MODIFICATIONS

   CONTRACTOR TO PROVIDE TEMPORARY SUPPORT OF EXTG FRAMING SYSTEM DURING CONSTRUCTION OF NEW CHANNEL WORK

   ANGLE SUPPORT UNDER GRATING

   CONTRACTOR TO PROVIDE TEMPORARY SUPPORT OF EXTG FRAMING SYSTEM DURING CONSTRUCTION OF NEW CHANNEL WORK

8. HANDRAIL MODIFICATIONS

   HANDRAIL MODIFICATIONS

   HANDRAIL MODIFICATIONS

   CONTRACTOR TO PROVIDE TEMPORARY SUPPORT OF EXTG FRAMING SYSTEM DURING CONSTRUCTION OF NEW CHANNEL WORK

   ANGLE SUPPORT UNDER GRATING

9. ANGLE SUPPORT UNDER GRATING

   ANGLE SUPPORT UNDER GRATING

   CONTRACTOR TO PROVIDE TEMPORARY SUPPORT OF EXTG FRAMING SYSTEM DURING CONSTRUCTION OF NEW CHANNEL WORK

   ANGLE SUPPORT UNDER GRATING
RELOCATE EXISTING LIGHTING FIXTURE. LIGHTING FIXTURE SHALL BE CONNECTED TO EXISTING CIRCUIT IN EXISTING LP-RRF. PROVIDE NEW ANCHORAGE TO SECURE THE RELOCATED LIGHTING FIXTURE PER DETAIL 1.

PROVIDE NEW CONDUIT ANCHORAGES TO EXTEND THE BRANCH CIRCUIT. INSTALL NEW CONDUCTORS FROM THE RELOCATED LIGHTING FIXTURE TO EXISTING EQUALIZATION TANK. REPLACE THE EXISTING ANCHORAGE BETWEEN THE LIGHT SWITCH AND EXISTING PANEL LP-RRF. THE RELOCATED LIGHTING FIXTURE SHALL BE POWERED FROM THE SAME LIGHTING CIRCUIT. SECURE THE NEW LIGHTING FIXTURE TO EXTERIOR WALL OF THE CHANNEL. RELOCATED LIGHTING FIXTURES AT PANEL LP-RRF COORDINATE WITH DISTRICT STAFF TO DE-ENERGIZE THE CIRCUIT PRIOR TO ANY WORK.

RELOCATE EXISTING LIGHTING FIXTURE AND RELocate WHERE SHOWN. PATCH EXISTING CONCRETE.

TERMINATE CONDUIT WITH NEW CONDUIT AND ROUTE NEW CONDUIT AS SHOWN.

SUPPORT NEW CONDUIT PER DETAIL 1. WALL MOUNT TO MATCH ELEV 2605-017a.

POLE MOUNTING ON NEW SLAB

CONCRETE SURFACE

CONCRETE ANCHOR

FORMED 316 STAINLESS STEEL CHANNEL

CONDUIT CLAMP

CONDUIT

NOTES:
1. SUPPORT ALL EXPOSED CONDUITS ON FORMED 316 STAINLESS STEEL CHANNELS.
2. SUBMIT FINAL DESIGN AND CALCULATIONS FOR SUPPORT AND ANCHORAGE AS SPECIFIED.

CONDUIT SUPPORT ON CONCRETE SURFACE 2605-017a

FORMED 316 STAINLESS STEEL CHANNEL

CONDUIT CLAMP

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