CHANGES TO DIVISION 5:

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<td>Steel stud gauge specified (formerly in Division 9) on page 5.</td>
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<td>New rail details/elevations (pages 5.1-5.4)</td>
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GENERAL NOTES

Pipes:
All pipe material shall be Schedule 40 pipe, standard. Galvanized applied to exterior railing only.

Coatings:
Primer Coat:
- Universal Epoxy Primer, two-component, chemically-cured, Almatex Enamel Gloss System, Devcon 2585

Intermediate Coat:
- Almatex Enamel Gloss Enamel, matching top coat

Top Coat:
- Almatex Enamel Gloss Enamel, Devcon 315 UV stable

Colors:
Verify with owner's representative for exact color number.

BYU INSTRUCTIONS TO ARCHITECTS AND ENGINEER
DIVISION 5: METALS

May 2009

5.1
INTERIOR BRACKET

USE R & B WAGNER FOR
INTERIOR USED OR APPROVED
EQUAL, MALLEABLE IRON #1765

VERIFY OF SOLID BLOCKING
BEHIND BRACKET CONNECTION

WALL LINE

1.66" O.D. (1 1/4" DIA) SCHEDULE 40
GALVANIZED STEEL PIPE HANDRAIL,
PLUG ENDS & RETURN TO WALL,
GRIND WELDS SMOOTH
PRIME & PAINT 2 COATS

1/2" DIA. GALVANIZED STEEL
BAR BRACKET @ 48" O.C. MAX.,
GRIND WELDS SMOOTH
PRIME & PAINT 2 COATS

1/4" X 3" DIA. GALVANIZED STEEL
BASE, SECURE W/ (2) 1/2" DIA.
POWERS WEDGE BOLTS,
PRIME & PAINT 2 COATS

SECTION THROUGH HAND RAIL
GENERAL NOTES

- PIPES:
  - All pipe material shall be Schedule 40 pipe standard.
  - Galvanizing applies to exterior railing only.

- COATINGS:
  - Primer coat:
    - Universal epoxy primer, two-component, chemically-cured, aliphatic urethane gloss system.
  - Intermediate coat:
    - Aliphatic urethane gloss enamel, matching top coat.
  - Top coat:
    - Aliphatic urethane gloss enamel, urethane #185 JVA.
  - Colors:
    - Verify with owner's representative for exact color.

- SLOPE UP GROUT TO DRAIN WATER AWAY FROM POST

- NEW OR EXISTING CONCRETE SLAB

- 1/2" DIA. GALVANIZED STEEL PIPE
  - Grind all welds smooth, painted.

- CENTER RAIL ELEVATION

- BARRICADE RAIL ELEVATION
SEE RAIL ELEVATIONS FOR GENERAL NOTES

1 1/2" DIA. GALVANIZED STEEL PIPE TOP RAIL, WELD TO MAIN VERTICAL STEEL PIPE, PAINTED

1 1/2" DIA. GALVANIZED STEEL PIPE TOP & BOTTOM RAIL, GRIND ALL WELDS SMOOTH, PAINTED

1 1/2" DIA. GALVANIZED STEEL PIPE HAND RAIL, GRIND ALL WELDS SMOOTH, PAINTED

1/2" DIA. GALVANIZED STEEL ROD, WELD TO EACH MAIN VERTICAL SUPPORT, GRIND WELDS SMOOTH, PAINTED

1/2" DIA. GALVANIZED STEEL BALUSTER RODS @ 4' O.C. MAX, WELD TOP & BOTTOM TO STEEL PIPES, GRIND ALL WELDS SMOOTH, PAINTED

1 1/2" DIA. GALVANIZED STEEL VERTICAL PIPE EQUALLY SPACED (NOT TO EXCEED 5'-0" O.C. APART), GRIND ALL WELDS SMOOTH, PAINTED

SLOPE GROUT UP TO DRAIN WATER AWAY FROM POST

NEW OR EXISTING CONCRETE SLAB

6' CONCRETE RETAINING WALL WITH CHAMFER CORNERS WHERE OCCURS

CORE DRILL INTO CONCRETE 1" LARGER THAN PIPE SIZE, SET IN CEMENT BASED NON-SHRINK GROUT. APPROVED MANUFACTURERS:
Sika: GROUT #212
Mapei, Inc: PLANI GROUT #112

STANDARD RAIL SECTION

A/A1

1-1/2" = 1'-0"
SECTION 05 40 00 COLD-FORMED METAL FRAMING
05 41 00 Structural Metal Stud Framing

1.0 Materials:
   1.0.1 Non-load bearing steel studs shall be minimum 18 gauge where the stud length exceeds 10’-0;
   1.0.2 Non-load bearing steel studs shall be minimum 20 gauge where the stud length is less than 10’-0;
   1.0.3 The above may be modified when approved in writing by the owner.