1) RAMP SHALL HAVE A RUNNING SLOPE NOT STEEPER THAN 1/12 (8% SLOPE)

2) THE MAXIMUM VERTICAL RISE OF RAMP RUN SHALL BE 30" MAXIMUM.

3) THE SLOPE PERPENDICULAR TO THE DIRECTION OF TRAVEL AND THE SLOPE ON LANDINGS SHALL NOT BE STEEPER THAN ONE UNIT VERTICAL IN 48 UNITS HORIZONTAL.

4) WHEN CHANGES IN DIRECTION OF TRAVEL OCCUR AT LANDINGS BETWEEN RAMP RUNS, THE LANDING SHALL BE 60"x60" MINIMUM

5) MANEUVERING CLEARANCE ON PULL SIDE OF DOOR SHALL BE 18" ON INTERIOR AND 24" EXTERIOR WITH 60" LANDING IN FRONT OF DOOR.

6) HANDRAILS SHALL BE CONTINUOUS ALONG BOTH SIDES. HANDRAILS SHALL BE PARALLEL WITH THE SURFACE AND PROJECT 12"

7) TOP OF HANDRAILS SHALL BE MOUNTED BETWEEN 33" AND 36" ABOVE THE SURFACE.

8) CLEARANCE BETWEEN RAIL AND WALL SHALL BE 1 1/2".

9) GUARD RAILS SHALL TO BE DESIGNED FOR A CONCENTRATED LOAD OF 200# APPLIED @ ANY POINT AND ANY DIRECTION ALONG THE RAIL OR A UNIFORM LOAD OF 50#/L. F. APPLIED HORIZONTALLY TO THE GUARD HEIGHT.

10) BALUSTERS ARE INDEPENDENTLY DESIGNED FOR A CONCENTRATE LOAD OF 200# APPLIED TO ONE SQUARE FOOT OF AREA.

11) HANDRAILS SHALL HAVE A CIRCULAR CROSS SECTION WITH AN OUTSIDE MAXIMUM DIAMETER OF 1 1/4" MINIMUM AND 2" MAXIMUM.

12) GRIPPING SURFACE SHALL BE UNINTERRUPTED BY POSTS OR OTHER CONSTRUCTION ELEMENTS OR OBSTRUCTIONS.

13) HANDRAILS SHALL NOT ROTATE IN THEIR FITTINGS.

14) ENDS OF HANDRAILS SHALL RETURN SMOOTHLY TO FLOOR, WALL OR POST.

15) STEPS, RAMPS AND PLATFORMS SHALL BE DESIGNED FOR 100 PSF LIVE LOAD.

16) SUBMIT SHOP DRAWINGS FOR APPROVAL

1 RAMP NOTES SCALE: NTS

HANDRAIL NOTES:

1) MANEUVERING CLEARANCE ON EXTERIOR PULL SIDE OF DOOR SHALL BE 24" MINIMUM WITH 60" MINIMUM LANDING IN FRONT OF DOOR.

2) HANDRAILS SHALL BE CONTINUOUS ALONG BOTH SIDES. HANDRAILS SHALL BE PARALLEL WITH THE SURFACE AND PROJECT 12" ON TOP OF RISER AND 12" PLUS 1 TREAD AT BOTTOM RISER.
AT RAMPS WHERE HANDRAIL ARE NOT CONTINUOUS BETWEEN RUNS THE HANDRAIL SHALL EXTEND HORIZONTALLY ABOVE THE LANDING 12" MINIMUM BEYOND TOP AND BOTTOM RAMPS

3) TOP OF HANDRAILS SHALL BE MOUNTED BETWEEN 33" AND 36" ABOVE THE SURFACE.

4) CLEARANCE BETWEEN RAIL AND WALL SHALL BE A MINIMUM OF 1 1/2".

5) GUARD RAILS ARE TO BE DESIGNED FOR A CONCENTRATED LOAD OF 200# APPLIED @ ANY POINT AND ANY DIRECTION ALONG THE RAIL OR A UNIFORM LOAD OF 50#/LF APPLIED HORIZONTALLY @ GUARD HEIGHT.

6) BALUSTERS ARE INDEPENDENTLY DESIGNED FOR A CONCENTRATED LOAD OF 200# APPLIED TO ONE SQUARE FOOT OF AREA.

7) HANDRAILS SHALL HAVE A CIRCULAR CROSS SECTION WITH AN OUTSIDE DIAMETER OF 1 1/4" MINIMUM AND NOT GREATER THAN 2" MAXIMUM.

8) GRIPPING SURFACE SHALL BE UNINTERRUPTED BY POSTS OR OTHER CONSTRUCTION ELEMENTS OR OBSTRUCTIONS.

9) HANDRAILS SHALL NOT ROTATE IN THERE FITTINGS.

10) ENDS OF HANDRAILS SHALL RETURN SMOOTHLY TO FLOOR, WALL OR POST.

2 RAILING NOTES SCALE: NTS

REFERENCE IBC 2009

DESIGN LOADS:
LIVE LOAD- 100 PSF
HANDRAIL IMPACT- 200 PSF

MATERIALS

ROUND STEEL TUBE- ASTM A513 Fy= 35 KSI
SQUARE STEEL TUB- ASTM A500 GR. B Fy= 21 KSI
ALUMINUM SHEET- 3003-H22 Fty= 27 KSI Fcy= 14 KSI
OR 5052-H34 Fty= 24 KSI Fcy=24 KSI

WELDS
WELDING SHALL BE IN ACCORDANCE WITH AWS D.1.188
USING E70XX ELECTRODES FOR STEEL

3 STRUCTURAL NOTES SCALE: NTS

R&S TAVARES ASSOCIATES
DESIGN◆CONSULTING
9815 CARROLL CANYON
SAN DIEGO, CA 92131
3324 SANTA FE ST. SU
RIVERBANK, CA 95367
WWW.RSTAVARES.COM

CITY OF PORTLAND, MAINE — RESURGAM
Reviewed for Code Compliance
Inspections Division
Approved with Conditions
Date: 06/20/17

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REVISION

PROFESSIONAL STAMP

COMMONWEALTH OF MASSACHUSETTS
RALPH TAVARES
CIVIL
No.4744
REGISTERED PROFESSIONAL ENGINEER

PROJECT TITLE
COMPLETE ACCESS STAIRS & RAMPS
CODE: IBC 2006, 2007 UBC

SHEET TITLE
RAMP 30"
NOTES

PROJECT NUMBER 10027

DRAWN BY	CHECKED BY
ST	RT

DATE 05-14-2010

SHEET NO. A1.0

1 RAMP FLOOR PLAN AND SIDE VIEW

SCALE: 1 1/2"=1'-0"

R & S TAVARES ASSOC
DESIGN CONSULTIN
9815 CARROLL CANYON
SAN DIEGO, CA 92131
3324 SANTA FE ST. SU
RIVERBANK, CA 95367
WWW.RSTAVARES.COM

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SHEET TITLE

RAMP 30"

FLOOR PLAN SIDE VIEW

PROJECT NUMBER 10027

DRAWN BY	CHECKED BY
ST	RT

DATE 05-14-2010

SHEET NO. A2.0

1 RAMP SIDE RAIL — SCALE: 1/4"=1'-0"

2 RAMP LANDING RAIL — SCALE: 1/4"=1'-0"

IF HIGHER THAN 5'-0"
AN INTERMEDIATE
LANDING OF
5'-2"x10'-4" NEEDED

3 RAMP LANDING RAIL — SCALE: 1/4"=1'-0"

4 POST DETAIL — SCALE: 3/4"=1'-0"

5 HANDRAIL DETAIL — SCALE: 3/4"=1'-0"

6 DECK CONNECTION — SCALE: 3/4"=1'-0"

R & S TAVARES ASSOC
DESIGN CONSULTIN
9815 CARROLL CANYON
SAN DIEGO, CA 92131
3324 SANTA FE ST. SU
RIVERSIDE, CA 95367
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SHEET TITLE

RAMP 30"

DETAILS

PROJECT NUMBER 10027

DRAWN BY	CHECKED BY
ST	RT

DATE 05-14-2010

SHEET NO. A3.0

1 DECK CONNECTION SCALE: 1/4"=1'-0"

2 RAILING CONNECTION SCALE: 3/4"=1'-0"

3 TYP.FOOTING DETAIL SCALE: 1/4"=1'-0"

NOTE:
THE CONCRETE AND WOOD FOOTINGS SHOWN ARE FOR ILLUSTRATION ONLY AND ARE NOT PART OF THE RAMP/LANDING, STAIR/LANDING OR RAMP/STAIR/LANDING ASSEMBLY.
THE PADS ARE TO BE USED AT OWNER/USER DISCRETION AND FOLLOWING THE SITE CONDITIONS REQUIREMENTS.

FOOTING AT GROUND MOUNT LANDING

4 FOOTINGS DETAIL SCALE: 1/4"=1'-0"

R&S TAVARES ASSOCIATES
DESIGN◆CONSULTING
9815 CARROLL CANYON
SAN DIEGO, CA 92131
3324 SANTA FE ST. SUITE
RIVERBANK, CA 95367
WWW.RSTAVARES.COM

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SHEET TITLE
RAMP 30"
DETAILS & FOOTINGS

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A4.0	