FISKE PLANETARIUM
UNIVERSITY OF COLORADO
2414 Regent Drive
Boulder, Colorado 80309

ISSUE FOR BIDDING & CONSTRUCTION

Original Date: March 5, 2013

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PROJECT TEAM

ARCHITECT:

MECHANICAL:

ELECTRICAL:

PLUMBING:

TECHNOLOGY:

ACOUSTICAL:

ARCHITECTURAL LEGEND

VICINITY MAP
Per IBC Section 1004.7 The areas where fixed seating is provided the occupant load has been calculated by the number of fixed seats therein.

Mechanical rooms
Existing: IIIBB, Existing sprinklered and detected.
Existing
Existing load bearing or non-load bearing interior walls are permitted to be non-combustible and non-fire rated. Existing interior walls are constructed of cast-in-place concrete or wood frame construction with gypsum board.

Stairways are existing
Fire and smoke dampers are to be provided where ducts penetrated 1 hour fire rated shafts.

Existing: B occupancy; Presentation Hall = AB1 occupancy.

Building height: Existing floor finish (6 ft) Top of beams = 94 ft

Floor Assembly: Existing concrete

Roof Construction: Existing: Cast in place concrete

Floor Assembly: Existing concrete approximately 10 inches

Building area: Existing:

Production Room
Planetarium
Restrooms
Offices
Exhibit Space

The existing Fiske Planetarium is a two story building constructed in 1973. The planetarium is doing a major upgrade of the projection system. This proposed upgrade include abatement, a new star projector and associated projectors and

Building description:
2009 International Energy Conservation Code
2009 International Fire Code
2009 International Building Code

The building is evaluated as non-separated mixed use occupancy with AB1 governing the design. Occupancy separation is not required.

West: Not protected. >30 feet.
South: Not protected. >30 feet.

First Level:
Occupant Load
Fixed seating

Building Areas

First Level:
946 S.F.
13,097 S.F.

Building Height
Existing floors are constructed of concrete. Exterior walls are concrete. Roof is constructed of concrete beams and concrete slabs. Stairways are enclosed with masonry enclosure.

Since the existing interior walls are of an unknown construction, wood frame walls, will be assumed. The construction type is designated as Type IIIBB, where exterior walls are of non-combustible, two-hour fire resistance rated construction.

upgrades to existing rooms will be incorporated as well a selected accessibility updates in select locations.

Applicable Building Codes:
Fire Detection and Alarm
Sprinkler system:
Exit illumination
Accessible egress
Egress convergence
Egress width
Occupancy separation:
Corridors:
Roof construction
Floor Assembly:
Construction Type
Fire separations
Mezzanine Level:
First Level:
Occupant Load
Fixed seating

The accessible means of egress is located at the main entry doors for this building.

Per IBC Section 1004.5 The means of egress from the first and second floor converge and the egress capacity has been designed to accommodate both occupant loads.
DEMO GENERAL NOTES

1. Coordinate with the Architect and Owner prior to starting demolition.
2. The Contractor shall remove or enclose all hazardous materials from the site.
3. Electrical, mechanical, and plumbing systems shall be removed or disconnected prior to demolition.
4. All areas to be demolished shall be cleared of debris and obstructions.
5. The Contractor shall ensure that all materials removed are properly disposed of.
6. The Contractor shall provide notice to the Owner if any unexpected conditions are encountered.
7. The Contractor shall ensure that all work is performed in accordance with the plans and specifications.
8. The Contractor shall coordinate with the Architect and Owner for the removal of any asbestos or hazardous materials.
9. The Contractor shall ensure that all work is performed in a safe and professional manner.
10. The Contractor shall ensure that all work is completed within the time frame specified in the contract.
11. The Contractor shall provide a final report to the Owner upon completion of the demolition work.
12. The Contractor shall ensure that all work is performed in compliance with all applicable codes and regulations.
13. The Contractor shall ensure that all work is performed in a manner that minimizes disruption to the surrounding area.
14. The Contractor shall ensure that all work is performed in a manner that protects the environment and the public.
15. The Contractor shall ensure that all work is performed in a manner that ensures the safety of all persons.
16. The Contractor shall ensure that all work is performed in a manner that complies with all applicable laws and regulations.

AD-111
FIRST FLOOR PLAN DEMO PLAN

University of Colorado - Department of Astrophysical & Planetary Sciences
414 Regent Drive
Boulder, CO 80309
A1 MEZZANINE FLOOR DEMO PLAN

1. Verify and coordinate schedule with all work.
2. Coordinate with Owner and/or architect.
3. Enclose exterior windows with plastic sheeting and use a frame to protect windows.
4. Ensure windows are properly protected.
5. Remove window glass and replace the exterior portions of the window frames as necessary.
6. Remove window glass and replace the exterior portions of the window frames as necessary.
7. Remove window glass and replace the exterior portions of the window frames as necessary.
8. Remove window glass and replace the exterior portions of the window frames as necessary.
9. Remove window glass and replace the exterior portions of the window frames as necessary.
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15. Remove window glass and replace the exterior portions of the window frames as necessary.
16. Remove window glass and replace the exterior portions of the window frames as necessary.
17. Remove window glass and replace the exterior portions of the window frames as necessary.
18. Remove window glass and replace the exterior portions of the window frames as necessary.
19. Remove window glass and replace the exterior portions of the window frames as necessary.
20. Remove window glass and replace the exterior portions of the window frames as necessary.

Sheet Title: A1 MEZZANINE FLOOR DEMO PLAN
Approved by: [Signature]
Drawn by: [Signature]
Issue: 02.15.13 ISSUE FOR BIDDING & CONSTRUCTION

University of Colorado
Department of Astrophysical & Planetary Sciences
11252.00

INSTRUCTIONS ON HOW TO PROTECT WALLS FROM DAMAGE.

1. Provide shoring and bracing.
2. Coordinate with architect.
3. Verify all existing conditions and dimensions with owner.
4. Remove all existing power and associated conduit (and remove all wall junction boxes)...
5. Provide proper function and restore.
6. Ensure proper function is restored.
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8. Verify all existing conditions and dimensions with owner.
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10. Provide proper function and restore.
11. Ensure proper function is restored.
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15. Provide proper function and restore.
16. Ensure proper function is restored.
17. Coordinate with architect.
18. Verify all existing conditions and dimensions with owner.
19. Remove all existing power and associated conduit (and remove all wall junction boxes)...
20. Provide proper function and restore.
21. Ensure proper function is restored.

PROJECT:
FISKE PLANETARIUM - UNIVERSITY OF COLORADO

SHEET INFORMATION:
PROJECT NO:
DRAWING INFORMATION:
ISSUE:
DRAWN BY:
APPROVED BY:
OWNER:
PROJECT:
CONSULTANT:
SPECIFICATION:
ARCHITECT:
WWW.SLATERPAULL.COM
P 303.607.0977
DEMOLITION GENERAL NOTES

1. The General Contractor is to report any materials not included in this drawings to the Architect.
2. The General Contractor shall coordinate with Slater-Paull regarding the removal of asbestos.
3. Line removal shall be within existing concrete beam lines.
4. The General Contractor shall coordinate with Slater-Paull regarding the removal of asbestos.
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Sheet Notes: Demolition Plans

NOTES:

1. The General Contractor is to report any materials not included in this drawings to the Architect.
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9. The General Contractor shall coordinate with Slater-Paull regarding the removal of asbestos.
10. The General Contractor shall coordinate with Slater-Paull regarding the removal of asbestos.
THE GENERAL CONTRACTOR IS TO REPORT ANY MATERIALS THEY SUSPECT MAY CONTAIN HAZARDOUS MATERIALS AND REPORT TO THE CU FACILITIES PROJECT MANAGER.

REMOVE ALL CEILINGS (SOFFITS, LIGHT FIXTURES, ETC.) SHOWN DASHED FIELD VERIFY CONSTRUCTION OF ALL CEILINGS TO BE REMOVED PROVIDE SHORING AND BRACING AS REQUIRED. REFER TO ELECTRICAL, MECHANICAL AND STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.

REMOVE AND SALVAGE ALL CEILING MOUNTED EQUIPMENT PROJECTORS, PULL DOWN SCREENS, SPEAKERS, ETC. TURN OVER TO OWNER FOR REINSTALL AS INDICATED. SHOULD REMOVAL NOT BE NECESSARY, COVER AND PROTECT ELEMENTS DURING CONSTRUCTION.

REMOVE AND SALVAGE ALL LIGHT FIXTURES, GRILLS AND RETURNS. CLEAN AND REPAIR TO "LIKE NEW" CONDITIONS AND REINSTALL AS INDICATED. REFER TO CONSULTANT DEMOLITION DRAWINGS FOR ADDITIONAL INFORMATION.

REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.

GENERAL CONTRACTOR TO COORDINATE WITH ABATEMENT CONSULTANT FOR ANY CONTAMINATED MATERIALS TO BE REMOVED BEFORE WORK TO BEGIN IN THIS AREA.
1. THE CU FACILITIES PROJECT MANAGER.
2. DIMENSIONS INDICATED ARE TO FACE OF FINISH MATERIAL OF PARTITION OR WALL GRID LINES, UON PLAN CALLOUTS AND FLOOR PATTERNS.
3. REFER TO SHEET (A510) FOR PARTITION TYPE INFORMATION.
4. PATCH AND PAINT ALL DAMAGED WALLS AS REQ.
5. PROVIDE BLOCKING AT ALL WALLMOUNTED ACCESSORIES (GRAB BARS, ETC), HARDWARE WHERE REQUIRED AND WALLHUNG CABINETS.
6. VERIFY & COORDINATE ALL REQUIREMENTS FOR OWNER FURNISHED ITEMS PRIOR TO PERFORMANCE OF WORK THAT MAY INTERFACE WITH SUCH ITEMS.
7. ITEMS, SUCH AS VALVES, CONTROLS, SWITCHES OR ANY OTHER ITEMS THAT REQUIRES ACCESS. GC TO DETERMINE ACCESS PANEL LOCATION W/ ARCHITECT PRIOR TO INSTALLATION.

# NOTE
1 MODIFY THE EXISTING SUPPORT FOR NEW, OWNER PROVIDED, STAR PROJECTOR IN THE LOBBY OF THE PANETARIUM AT A LOCATION TO BE SELECTED BY THE CU FISKE FACILITY MANAGERS.
2 REMOVE HISTORIC TELESCOPE AND REPLACE WITH RELOCATED STAR PROJECTORS. SUPPLIED BY OWNER, G.C. ITO COORDINATE INSTALLATION WITH DIGITAL THEATER SUPPLIER. SEE DETAILS FOR NEW SUPPORT SYSTEMS.
3 DESIGNATED WHEELCHAIR POSITIONS REQUIRED. V.I.F. EXISTING CONDITIONS FOR SIZE AND CLEARANCE.
4 MODIFY EXISTING PLATFORM FOR NEW STEP. FINISH TO MATCH EXITING.
5 RELOCATE (LOWER) EXISTING DRINKING FOUNTAIN AND ADD NEW DRINKING FOUNTAIN, RE: PLUMBING MECHANICAL DUCTS, RE: MECH CLEAR FLOOR AREA. 2" YELLOW STRIPING PAINTED ON FLOOR.
6 NEW TROUGH COVER. FILL W/ BATT INSULATION @ DOOR OPENING.
7 UNDERSIDE OF GEODESIC DOME TO BE INSULATED WITH 1 1/4" CELLULOSE INSULATION ON 4" OF SPRAY ON CLOSED CELL FOAM INSULATION. EXTEND INSULATION COVERAGE ONTO DOME PARAPET AND SOFFIT.
8 HVAC EQUIPMENT, RE: MECH OPENING = PROVIDE (1) 3'0" WITH FLEXIBLE MAGNET SELFCLOSURES.
9 HANGING LIGHT REFLECTOR SCREENS (OLD DOME PANELS). HANG PANELS WITH AIRPLANE CABLE ATTACHED TO UNDERSIDE OF STRUCTURE; UP LIGHT WITH NEW FIXTURES, RE: ELEC. COORDINATION AND RELOCATION OF SPRINKLER SYSTEM WILL BE REQUIRED IF ADD ALT IS ACCEPTED.
10 REMOVE EXISTING STOREFRONT SYSTEM. INSTALL NEW STOREFRONT SYSTEM TO INCULDE TWO TICKET WINDOWS; ONE WINDOW TO BE FULLY ACCESSIBLE. INCLUDE NEW POS STATIONS AND STORAGE ON OFFICE SIDE OF NEW WALL.
11 POWER & DATA FOR WALL MOUNTED TELEVISION. OWNER PROVIDED TELEVISION, G.C. INSTALLED.
12 2" THICK BLACK FIBERGLASS PANEL, ASSUME 50% COVERAGE.
13 REMOVE STOREFRONT SYSTEM. INSTALL NEW STOREFRONT SYSTEM TO INCULDE TWO TICKET WINDOWS; ONE WINDOW TO BE FULLY ACCESSIBLE. INCLUDE NEW POS STATIONS AND STORAGE ON OFFICE SIDE OF NEW WALL.
14 COMPUTER RACKS, RE: DIGITAL THEATER SUPPLIER, N.I.C.
15 PROVIDE (1) 3'0" WITH FLEXIBLE MAGNET SELFCLOSURES.

# ALTERNATE NOTES
1 PLASTIC CURTAIN ABOVE RACKS, AISLE CURTAIN INSTALLATION IS GCPROVIDE/ GCINSTALLED.
2 SIMPLEX AIRBLOCK OR SIM: CURTAIN = FLEXSIM FR AS 40484 OR SIM ATTACHEMENT = CEILING: STANDARD TBAR 1" SIDES: DUAL LOCK FASTENER, OR SIM.
3 REMOVE EXISTING STOREFRONT SYSTEM. INSTALL NEW STOREFRONT SYSTEM TO INCULDE TWO TICKET WINDOWS; ONE WINDOW TO BE FULLY ACCESSIBLE. INCLUDE NEW POS STATIONS AND STORAGE ON OFFICE SIDE OF NEW WALL.
4 POWER & DATA FOR WALL MOUNTED TELEVISION. OWNER PROVIDED TELEVISION, G.C. INSTALLED.
5 HANGING LIGHT REFLECTOR SCREENS (OLD DOME PANELS). HANG PANELS WITH AIRPLANE CABLE ATTACHED TO UNDERSIDE OF STRUCTURE; UP LIGHT WITH NEW FIXTURES, RE: ELEC. COORDINATION AND RELOCATION OF SPRINKLER SYSTEM WILL BE REQUIRED IF ADD ALT IS ACCEPTED.
1. THE DIGITAL DRAWINGS AND SKETCHES SHOWN ABOVE ARE FOR REVIEW PURPOSES ONLY. THEY ARE NOT TO BE CONSIDERED COMPLETE AND CORRECT UNTIL APPROVED IN WRITING BY THE ARCHITECT AND ENGINEER.

2. CONSTRUCTORS ARE TO REPORT ANY MATERIALS THEY ENCOUNTER THAT THEY SUSPECT MAY CONTAIN HAZARDOUS MATERIALS AND REPORT TO THE CU FACILITIES PROJECT MANAGER.

3. DIMENSIONS INDICATED ARE TO FACE OF FINISH MATERIAL OF PARTITION OR WALL AND GRID LINES, REFER TO FINISH PLANS FOR INTERIOR ELEVATION CALLOUTS, ENLARGED PLAN CALLOUTS AND FLOOR PATTERNS.

4. REFER TO SHEET (A510) FOR PARTITION TYPE INFORMATION.

5. PATCH AND PAINT ALL DAMAGED WALLS AS REQ.

6. PROVIDE BLOCKING AT ALL WALLMOUNTED ACCESSORIES (GRAB BARS, ETC), HARDWARE WHERE REQUIRED AND WALLHUNG CABINETS.

7. VERIFY & COORDINATE ALL REQUIREMENTS FOR OWNER FURNISHED ITEMS PRIOR TO PERFORMANCE OF WORK THAT MAY INTERFACE WITH SUCH ITEMS.

8. PROVIDE PAINTED ACCESS PANELS IN WALLS & CEILINGS AT CONCEALED ITEMS, SUCH AS VALVES, CONTROLS, SWITCHES OR ANY OTHER ITEMS THAT REQUIRES ACCESS. GC TO DETERMINE ACCESS PANEL LOCATION W/ARCHITECT PRIOR TO INSTALLATION.
NOTE: ROOF ASSEMBLY IS ASSUMED TO BE EPDM ON RIGID INSULATION ON CAST IN PLACE CONCRETE, V.I.F.

1. REMOVE SEGMENT OF SECURITY FENCE.
2. SALVAGE PICKETS AND RAILS FOR REUSE.
3. INSTALL NEW SECURITY GATE.

NEW ROOF TOP UNIT, RE: MECH.

PAINT: Benjamin Moore Super Spec DTM Acrylic Semigloss
Color Book match #G411228

SHADE AREA INDICATES EXTENT OF AREA ON UNDERSIDE OF DOME TO BE INSULATED.

(E) MTL POST
(E) MTL PICKET
(E) WALL

VANDAL PROOF HINGES ON (E) POST, FINISH TO MATCH EXITING
MATCH EXISTING HASP, FINISH TO MATCH EXISTING
METAL ROD IN SLEEVES. HOLE IN ROD FOR PADLOCK, FINISH TO MATCH EXISTING

CONSULTANT:
ISSUE:
OWNER:
PROJECT:

DRAWING INFORMATION:
DRAWN BY:
PROJECT NO:
SHEET TITLE:
APPROVED BY:
CHECKED BY:

SLATERPAULL
ARCHITECTS
P  303.607.0977
www.slaterpaull.com
1331 Nineteenth Street
Denver, CO. 80202

ROOF PLAN

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A-113
MEZZANINE FLOOR REFLECTED CEILING PLAN

A1

University of Colorado - Department of Astrophysical & Planetary Sciences

MEZZANINE FLOOR REFLECTED CEILING PLAN

A-122
FIRST FLOOR T.O. SLAB
100' 0"

SECOND FLOOR T.O. SLAB
112' 0"

ROOF
122' 6"

(E) ALUMINUM GEODESIC DOME
4" OF SPRAY ON CLOSED CELL FOAM INSULATION
1 1/4" CELLULOSE INSULATION
NEW PROJECTION SCREEN ATTACHED TO EXISTING FRAMING, BY OTHERS
(E) CATWALK TO REMAIN
(E) AIR RETURN
(E) EQUIPMENT SHELF TO REMAIN, EXCEPT @ NEW VIDEO PROJECTOR LOCATIONS, RE: DEMO PLANS

NEW STRIP LIGHTING IN EXISTING COVE, RE: ELEC.

V.I.F. 1'0" PERFORATED METAL GRATE; DECK SPAN # DSP051512 OR SIM.

MTL ANGLE BRACKET
BATT INSULATION. ONLY INSTALL AT DOOR OPENING. EXTEND 1'0" OPENING ON BOTH SIDES.
CABELING, BY OTHERS

(E) SLAB WITH (E) TROUGH
(E) WALL
EXISTING FLOOR SLAB
FRAME AROUND OPENING AS NECESSARY: PACK GAP WITH FIBERGLASS OR MINERAL WOOD AND SEAL BOTH SIDE WITH ACOUSTICAL SEALANT AROUND PERIMETER OF PENETRATION MECHANICAL DUCT OR PIPE

CONSULTANT:
ISSUE:
OWNER:
PROJECT:
DRAWING INFORMATION:
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CHECKED BY:

WALL SECTIONS & INTERIOR DETAILS

A-310A-310 A-310

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University of Colorado - Department of Astrophysical & Planetary Sciences
414 Regent Drive
Boulder CO. 80309
UCB 391
Boulder, CO. 80309

02.15.13 ISSUE FOR BIDDING & CONSTRUCTION

1/2" = 1'0"

A2 SECTION THROUGH THEATER CATWALK

D2 DUCT FLOOR PENETRATION DETAIL

D5 ACOUSTIC DETAIL AT EXISTING COLUMN @ CONTROL ROOM 126

AS VIDEO PROJECTOR
**LUMINARIE SCHEDULE**

<table>
<thead>
<tr>
<th>TYPE</th>
<th>DESCRIPTION</th>
<th>LAMPS</th>
<th>VOLT</th>
<th>AMPS</th>
<th>MANUFACTURER</th>
<th>CATALOG NO.</th>
<th>VOLTAGE</th>
<th>FINISH</th>
<th>MOUNTING</th>
</tr>
</thead>
<tbody>
<tr>
<td>LS1</td>
<td>8-FT LINEAR, SURFACE MOUNTED LED LUMINAIRE WITH ACRYLIC LENS AND ELECTRONIC DRIVER. LUMINAIRE SHALL BE DIMMABLE. LED (INCLUDED), 3500K 77.2 SELUX OR APPROVED EQUAL</td>
<td>L10U-1L35-35-LW-F-08-WH-120</td>
<td>120</td>
<td>WHITE SURFACE ---</td>
<td></td>
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<tr>
<td>LS2</td>
<td>12-FT LINEAR, SURFACE MOUNTED LED LUMINAIRE WITH ACRYLIC LENS AND ELECTRONIC DRIVER. LUMINAIRE SHALL BE DIMMABLE. LED (INCLUDED), 3500K 120 SELUX OR APPROVED EQUAL</td>
<td>L10U-1L35-35-LW-F-RUN (12 FT)-WH-120</td>
<td>120</td>
<td>WHITE SURFACE ---</td>
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<td>TS1</td>
<td>8-FT SURFACE MOUNTED FLUORESCENT WITH WRAP ACRYLIC LENS AND ELECTRONIC BALLAST. (2)F32T8, 3500K 64</td>
<td>CB-232-MVOLT-GEB10PS</td>
<td>120</td>
<td>WHITE SURFACE ---</td>
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<tr>
<td>W1</td>
<td>WALL MOUNTED INDIRECT LED LUMINAIRE WITH ELECTRONIC DRIVER. LED (INCLUDED), 3500K 70</td>
<td>WL-IN-C-B03-AI-35-UNV-W-RC</td>
<td>120</td>
<td>WHITE SURFACE ---</td>
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<tr>
<td>W2</td>
<td>WALL MOUNTED WORKLIGHT WITH &quot;RED&quot; GLASS GLOBE, GUARD AND ELECTRONIC BALLAST. 26W QUAD TUBE, 3500K 26</td>
<td>68-03-F-W-F-21-09-14</td>
<td>120</td>
<td>BLACK SURFACE ---</td>
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</tr>
<tr>
<td>XEM</td>
<td>SURFACE MOUNTED THERMOPLASTIC EMERGENCY LIGHT WITH LEAD-CALCIUM BATTERY, LAMPS, AND SELF DIAGNOSTICS. BLACK FINISH. INCLUDED 15 DUAL-LITE (NO SUBSTITUTIONS) LZ2-I-B</td>
<td>120 BLACK SURFACE ---</td>
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<tr>
<td>XEM2</td>
<td>SURFACE MOUNTED THERMOPLASTIC EMERGENCY LIGHT WITH LEAD-CALCIUM BATTERY, LAMPS, AND SELF DIAGNOSTICS. INCLUDED 15 DUAL-LITE (NO SUBSTITUTIONS)</td>
<td>LZ2-I</td>
<td>120 WHITE SURFACE ---</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>X1</td>
<td>LED EXIT SIGN WITH WHITE HOUSING, GREEN LETTERS, BATTERY PACK, AND SELF-DIAGNOSTICS. LED (INCLUDED)</td>
<td>G502-WB-WH-AT</td>
<td>120 WHITE SURFACE ---</td>
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</tbody>
</table>

**GENERAL NOTES:**

1. CATALOG NUMBER REFERS TO FIRST NAME LISTED UNDER MANUFACTURER PER LUMINAIRE TYPE. REMAINING MANUFACTURERS LISTED ARE CONSIDERED EQUIVALENT PRODUCTS FOR THIS PROJECT AND SHALL MEET ALL CRITERIA LISTED INCLUDING THAT CALLED FOR BY THE SPECIFIC LUMINAIRE CATALOG NUMBER. CATALOG NUMBERS DO NOT NECESSARILY REPRESENT COMPLETE CATALOG NUMBERS. ALL ITEMS LISTED IN THE DESCRIPTION SHALL BE PROVIDED.
2. PROVIDE FACTORY INSTALLED BALLAST DISCONNECT SWITCH FOR FLUORESCENT LUMINAIRES PER NEC 410.