SOUND SYSTEM LEGEND

SOUND SYSTEM EQUIPMENT RACK IN AUDIO/VISUAL ROOM A104. ELECTRICAL TO PROVIDE THREE (3) 20A, 120VAC DEDICATED CIRCUITS, SINGLE PHASE WITH INDEPENDENT GROUNDS TO EACH RACK. TERMINATE CIRCUITS INTO ISOLATED GROUND DUPLEX OUTLETS INSIDE EQUIPMENT RACK. ELECTRICAL TO PROVIDE WIREWAY ABOVE RACKS FOR TERMINATING CONDUITS (SEE DRAWING SS-1.1c)

AL — ASSISTED LISTENING SYSTEM TRANSMITTER ANTENNA RECEPTACLE. 1-GANG J-BOX, RACO #690 OR EQUAL. FLUSH-MOUNT IN WALL 20'-0" AFF.

J1 — JUNCTION BOX FOR CONNECTION TO SCOREKEEPER'S AUDIO INPUT RECEPTACLES. 2-GANG J-BOX, RACO #691 OR EQUAL. FLUSH-MOUNT IN WALL 16" AFF.

J2 — 4" x 4" x 4" ELECTRICAL BOX. SURFACE MOUNT ON WALL NEAR BOTTOM OF ROOF TRUSS.

M1 — PRESENTATION AUDIO INPUT RECEPTACLE, 2-GANG J-BOX, RACO #691 OR EQUAL. ELECTRICAL TO PROVIDE ONE (1) 20A, 120 VAC DEDICATED CIRCUIT QUAD OUTLET NEXT TO J-BOX. FLUSH-MOUNT IN WALL 16" AFF. COORDINATE EXACT LOCATION WITH ARCHITECT BASED ON LOCATION OF PORTABLE STAGE.

M2 — SCORE KEEPER'S AUDIO INPUT RECEPTACLE, 3-GANG J-BOX, RACO #692 OR EQUAL. ELECTRICAL TO PROVIDE DUPLEX OUTLET NEXT TO J-BOX. FLUSH-MOUNT IN WALL 16" AFF.

S1 — 70V LOUDSPEAKER MOUNTED TO UNDERSIDE OF STRUCTURAL TRUSS (60°x60° Coverage). LOUDSPEAKER TO BE AIMED STRAIGHT DOWN.

S2 — 70V LOUDSPEAKER MOUNTED TO UNDERSIDE OF STRUCTURAL TRUSS (90°x40° Coverage). LOUDSPEAKER TO BE AIMED AS SHOWN ON DRAWING SS-3.1.

TP — SOUND SYSTEM CONTROL TOUCHPANEL. ELECTRICAL CONTRACTOR TO INSTALL BACKBOX PROVIDED BY AV CONTRACTOR. FLUSH-MOUNT IN WALL 48" AFF.

WM — WIRELESS MIC ANTENNA. 1-GANG J-BOX, RACO #690 OR EQUAL. FLUSH-MOUNT IN WALL 20'-0" AFF.

WP — WIRELESS CONTROL SYSTEM ACCESS POINT. 1-GANG J-BOX, RACO #690 OR EQUAL. FLUSH-MOUNT IN WALL 20'-0" AFF.

FLAG NOTES

1 — TO WIREWAY ABOVE SOUND SYSTEM EQUIPMENT RACK IN AUDIO/VISUAL ROOM A 104 ( )

GENERAL NOTES

1. ALL CONDUIT IS 3/4" EMT UNLESS NOTED OTHERWISE.
2. ALL CONDUIT SHALL BE METALLIC TYPE ONLY, NO PVC SHALL BE USED. CONDUIT IN SLAB MUST BE PVC COATED METALLIC TYPE OR APPROVED EQUIVALENT.
3. LOCATIONS OF WALL-MOUNTED EQUIPMENT RACKS AND JUNCTION BOXES ARE TO CENTERLINE OF DEVICE UNLESS NOTED OTHERWISE. EQUIPMENT LOCATIONS SHALL BE COORDINATED WITH THE ELECTRICAL CONTRACTOR PRIOR TO INSTALLATION.
4. ALL ELECTRICAL/JUNCTION BOXES PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR UNLESS NOTED OTHERWISE.
5. IF ALLOWED BY LOCAL AND STATE CODE, CONDUIT MAY BE STUBBED ABOVE ACCESSIBLE CEILING AND CABLE SHALL BE PLENUM RATED. PROVIDE J-HOOKS MOUNTED AND SPACED PER INDUSTRY STANDARDS.
6. LOUDSPEAKER LEVEL CABLE IS NOT TO BE BUNDLED WITH LINE/MICROPHONE LEVEL AUDIO CABLE, NETWORK CABLE, OR VIDEO CABLE.
7. STANDARD VOLTAGE LINES SHALL NOT BE PARALLEL TO SOUND SYSTEM CABLE WHEN WITHIN 4'.
8. ELECTRICAL CONTRACTOR TO COORDINATE ALL NEW CONDUIT RUNS WITH SOUND CONTRACTOR SUCH THAT CONDUIT IS THE MOST DIRECT AS POSSIBLE AND NO SIGNAL PATH IS BEYOND THE OPERATING LIMITS FOR ANY SIGNAL. ALL COORDINATION TO BE DOCUMENTED, DATED, AND SIGNED OFF BY BOTH SOUND AND ELECTRICAL CONTRACTORS.
9. CONDUIT BENDS SHALL NOT EXCEED 180° BETWEEN PULL BOXES.

SOUND SYSTEM SHEET INDEX

SS-0.1 – SOUND SYSTEM LEGEND
SS-1.1b – PARTIAL SOUND SYSTEM FLOOR PLAN
SS-1.1c – PARTIAL SOUND SYSTEM FLOOR PLAN
SS-1.3b – PARTIAL SOUND SYSTEM REFLECTED CEILING PLAN
SS-1.3c – PARTIAL SOUND SYSTEM REFLECTED CEILING PLAN
SS-3.1 – SOUND SYSTEM BUILDING SECTION AND LOUDSPEAKER AIMING DETAILS
SS-5.1 – SOUND SYSTEM ONE-LINE DIAGRAMS
SS-5.2 – SOUND SYSTEM RACK LAYOUTS AND DETAILS

SOUND SYSTEM LEGEND

SCALE: NOT TO SCALE

D. L. ADAMS ASSOCIATES, LTD.
970 N. KALAHEO AVE., A-311
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DAVID L. ADAMS
LICENSED PROFESSIONAL ENGINEER
No. 7198-E
HAWAII, U.S.A.

This work was prepared by me or under my supervision and construction of this project will be under my observation.

LICENSE EXPIRATION 4/30/14

COUNTY OF HAWAI'I
DEPARTMENT OF PUBLIC WORKS, BUILDING DIVISION

NEW KA'Ū DISTRICT GYMNASIUM & SHELTER AT KA'U AND PAHALA ELEMENTARY SCHOOL CAMPUS
JOB NO. B-4108

PA'AU'AU AHUPUA'A, DISTRICT, HAWAI'I
ISLAND AND COUNTY OF HAWAII
96-2150 PIKAKE STREET, PAHALA, HAWAII 96777
TMK: (3) 9-6-05: 08 & 39

SOUND SYSTEM LEGEND

REVIEWED:

DIVISION CHIEF
BUILDING DIVISION
DEPARTMENT OF PUBLIC WORKS

DATE 2012 MAY-30

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DRAWN BY:	APD
CHECKED BY:	SAB

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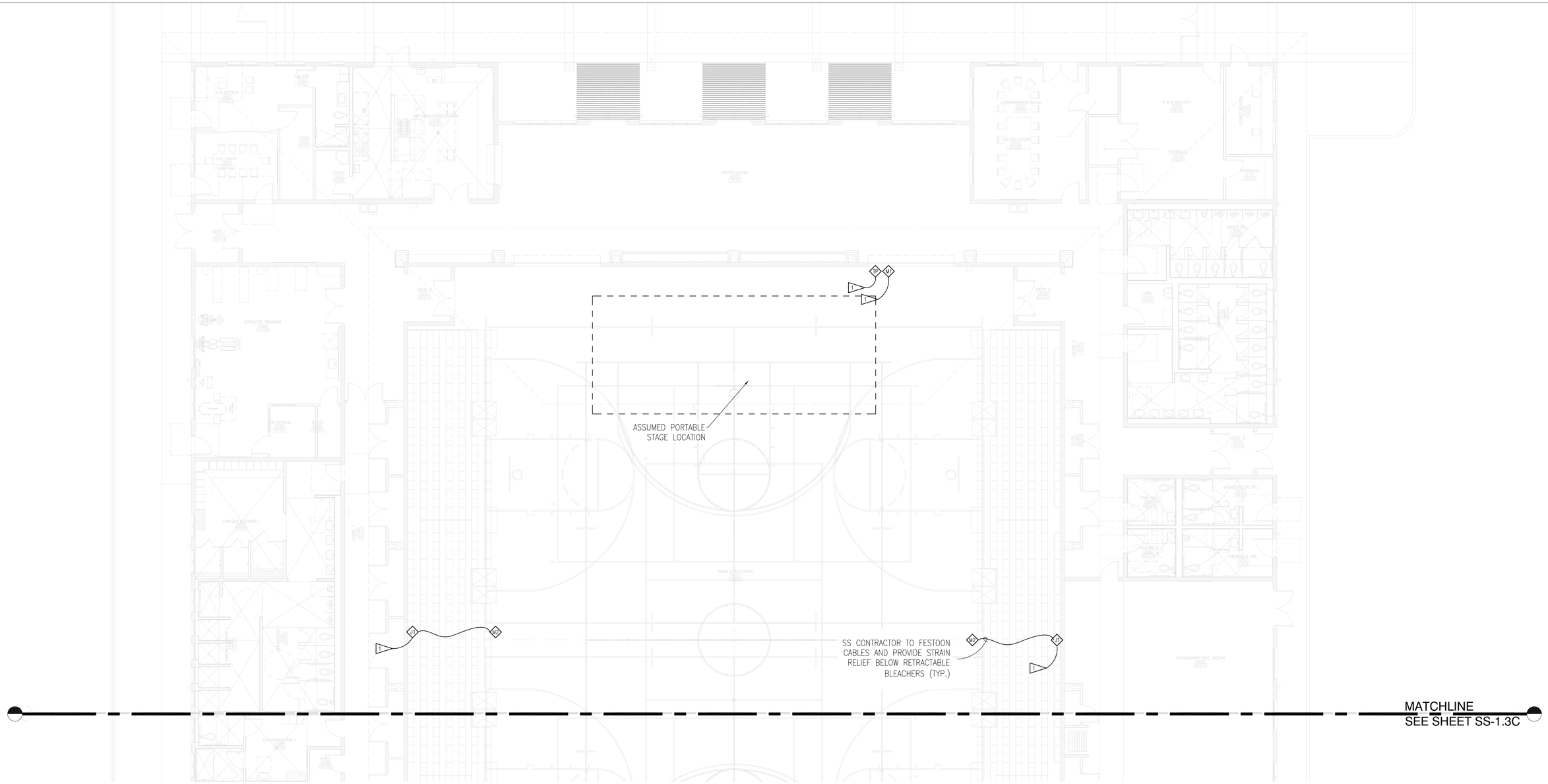

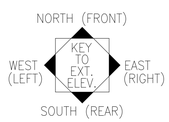

SOUND SYSTEM PARTIAL FLOOR PLAN

SCALE: 1/8"=1'-0"

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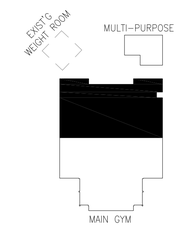

KEY PLAN

GRAPHIC SCALE

0 5' 10' 15'

1/8" = 1'-0"

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JOB NO. B-4108

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96-2150 PIKAKE STREET, PAHALA, HAWAII 96777
TMK: (3) 9-6-05: 08 & 39

SOUND SYSTEM PARTIAL FLOOR PLAN

REVIEWED:

DIVISION CHIEF
BUILDING DIVISION
DEPARTMENT OF PUBLIC WORKS

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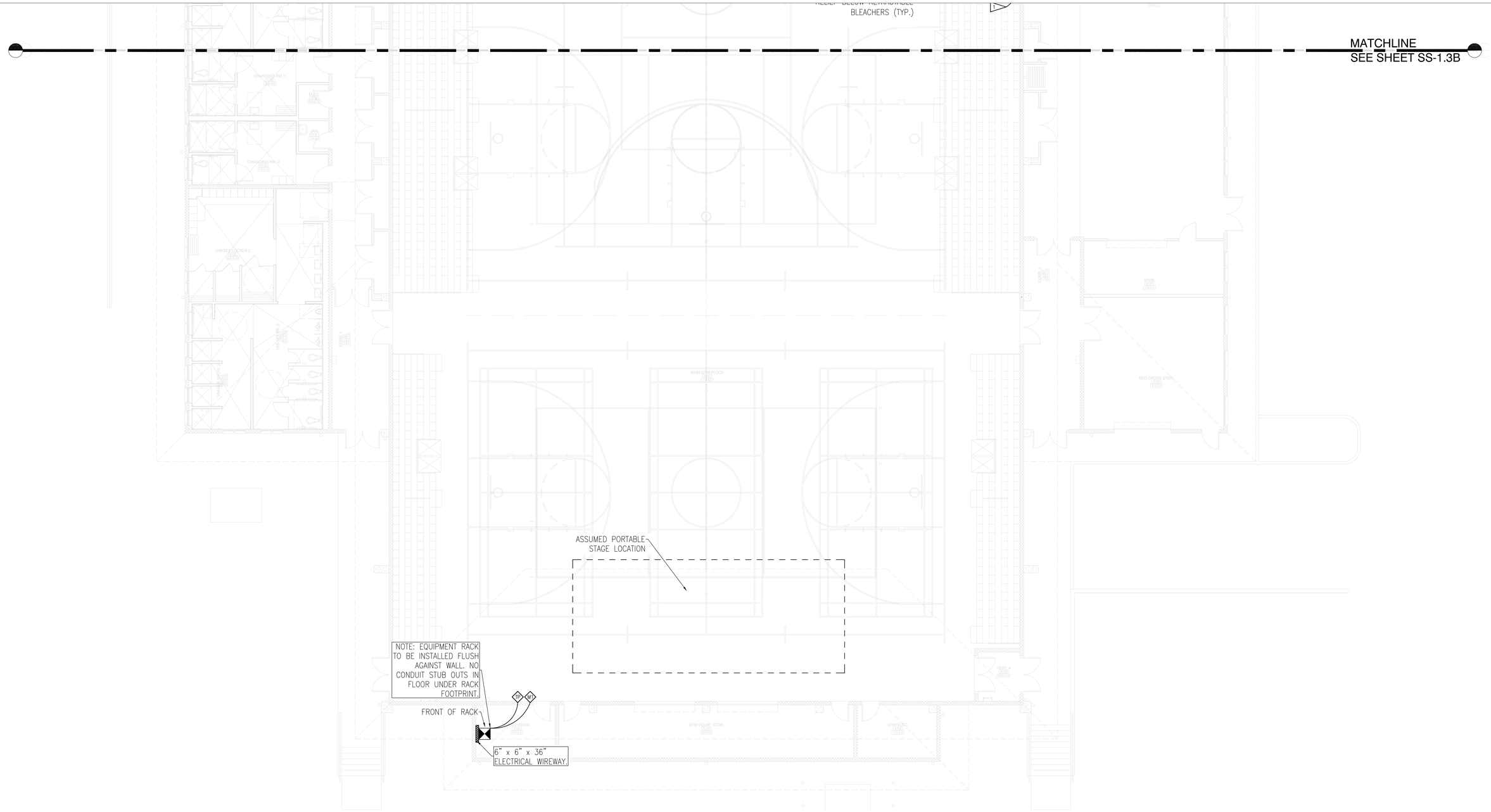

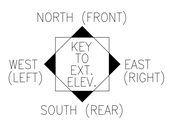

SOUND SYSTEM PARTIAL FLOOR PLAN

SCALE: 1/8"=1'-0"

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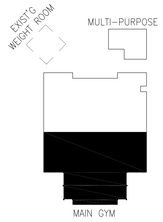

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SOUND SYSTEM PARTIAL FLOOR PLAN

REVIEWED:

DIVISION CHIEF
BUILDING DIVISION
DEPARTMENT OF PUBLIC WORKS

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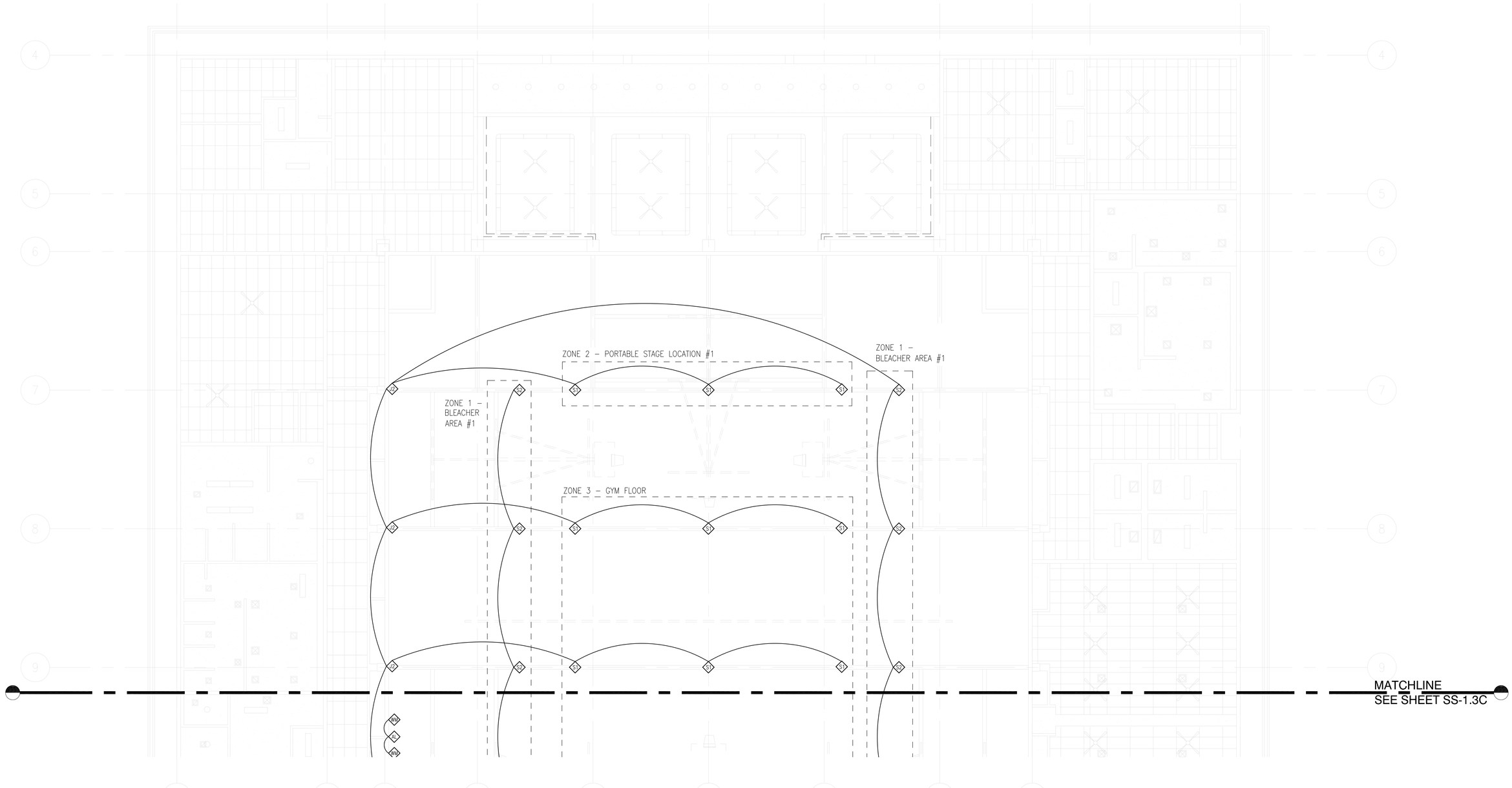

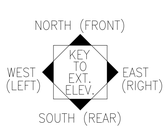

SOUND SYSTEM PARTIAL REFLECTED CEILING PLAN

SCALE: 1/8"=1'-0"

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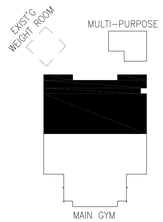

KEY PLAN

GRAPHIC SCALE

0 5' 10' 15'

1/8" = 1'-0"

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PARTIAL SOUND SYSTEM REFLECTED CEILING PLAN

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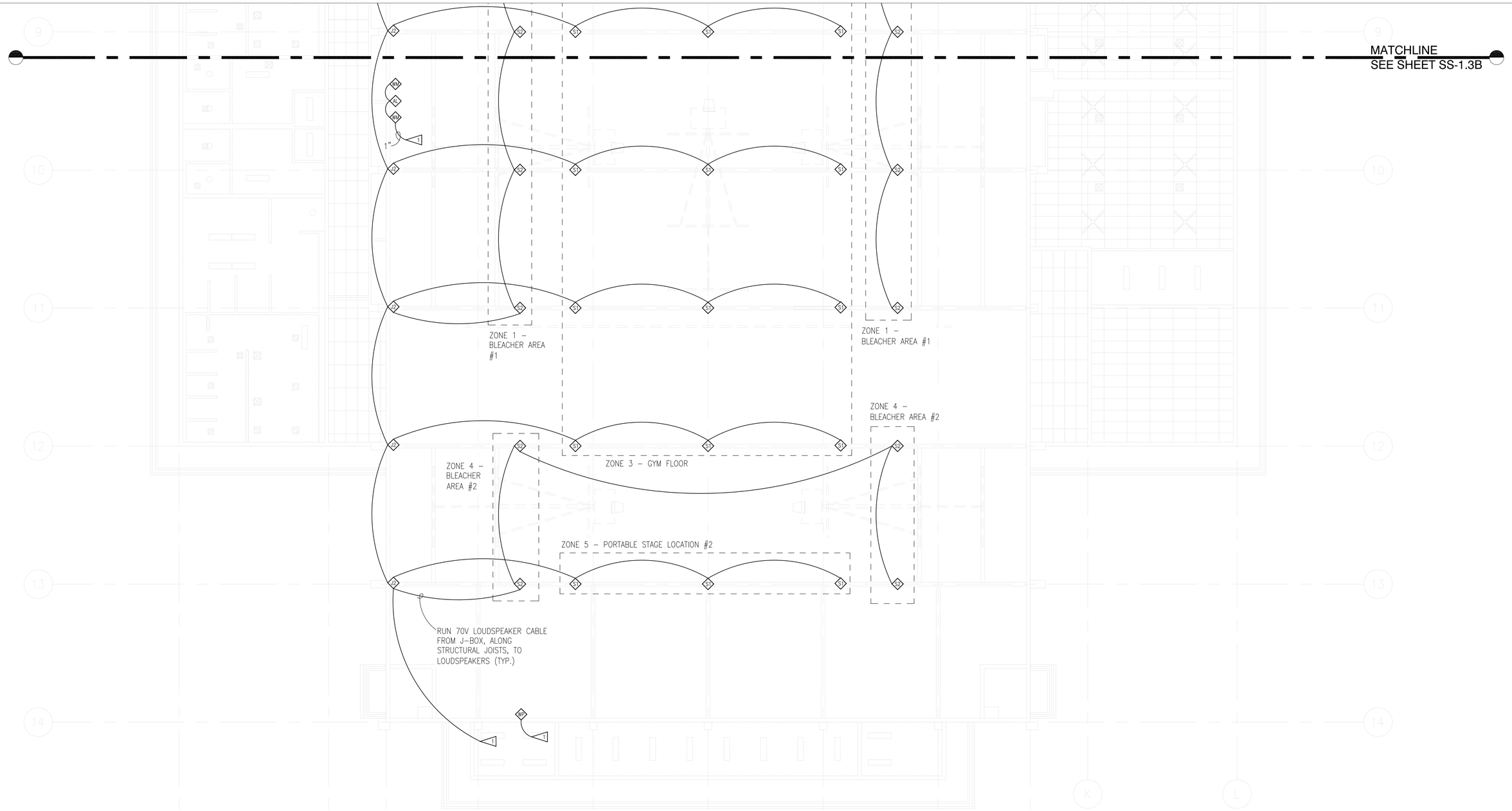

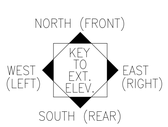

SOUND SYSTEM PARTIAL REFLECTED CEILING PLAN

SCALE: 1/8"=1'-0"

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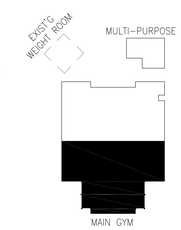

KEY PLAN

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0 5' 10' 15'

1/8" = 1'-0"

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96-2150 PIKAKE STREET, PAHALA, HAWAII 96777
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SOUND SYSTEM PARTIAL REFLECTED CEILING PLAN

REVIEWED:

DIVISION CHIEF
BUILDING DIVISION
DEPARTMENT OF PUBLIC WORKS

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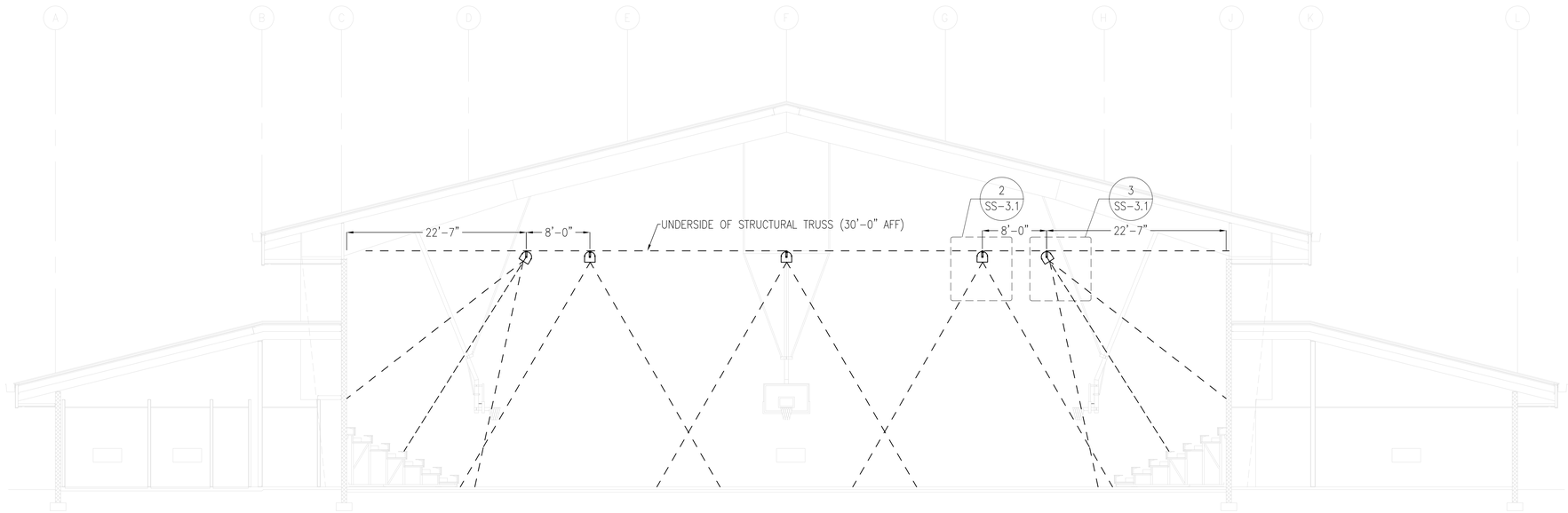
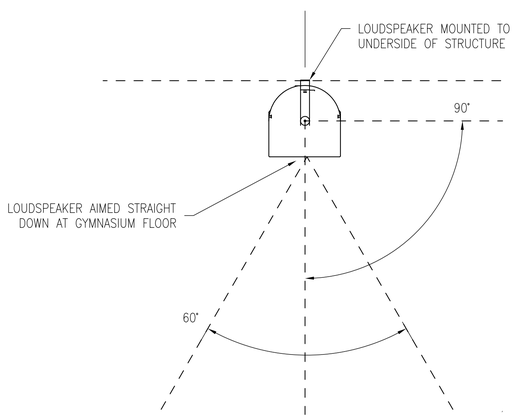


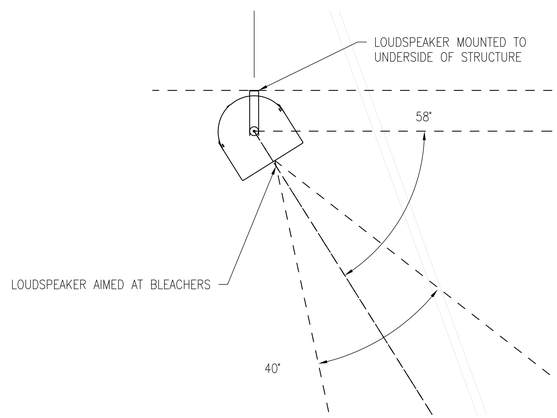
1 SS-3.1 SOUND SYSTEM BUILDING SECTION

SCALE: 1/8" = 1'-0"



2 SS-3.1 60x60 LOUDSPEAKER AIMING DETAIL (TYP.)

SCALE: 3/4" = 1'-0"



3 SS-3.1 90x40 LOUDSPEAKER AIMING DETAIL (TYP.)

SCALE: 3/4" = 1'-0"

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96-2150 PIKAKE STREET, PAHALA, HAWAII 96777
TMK: (3) 9-6-05: 08 & 39

SOUND SYSTEM BUILDING SECTION AND LOUDSPEAKER AIMING DETAILS

REVIEWED:

DIVISION CHIEF
BUILDING DIVISION
DEPARTMENT OF PUBLIC WORKS

DATE 2012 MAY-30

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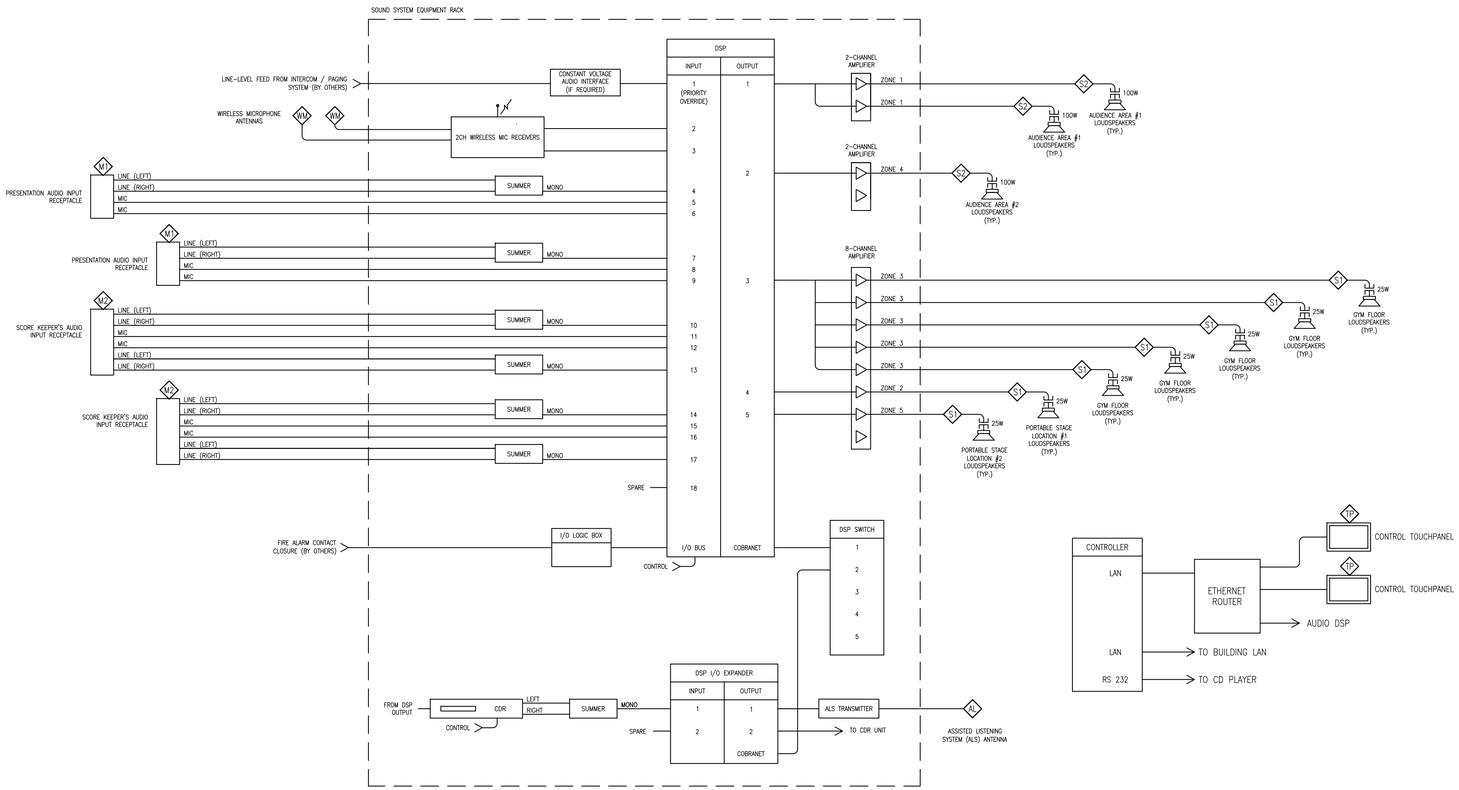
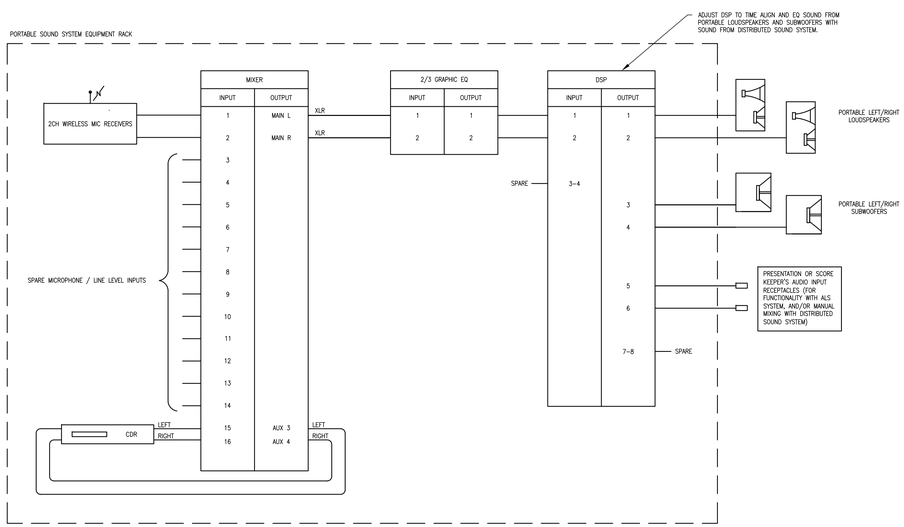


1
SS-5.1

DISTRIBUTED SOUND SYSTEM ONE-LINE DIAGRAM

SCALE: NOT TO SCALE



2
SS-5.1

PORTABLE SOUND SYSTEM ONE-LINE DIAGRAM

SCALE: NOT TO SCALE

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SOUND SYSTEM ONE-LINE DIAGRAMS

REVIEWED:

DIVISION CHIEF
BUILDING DIVISION
DEPARTMENT OF PUBLIC WORKS

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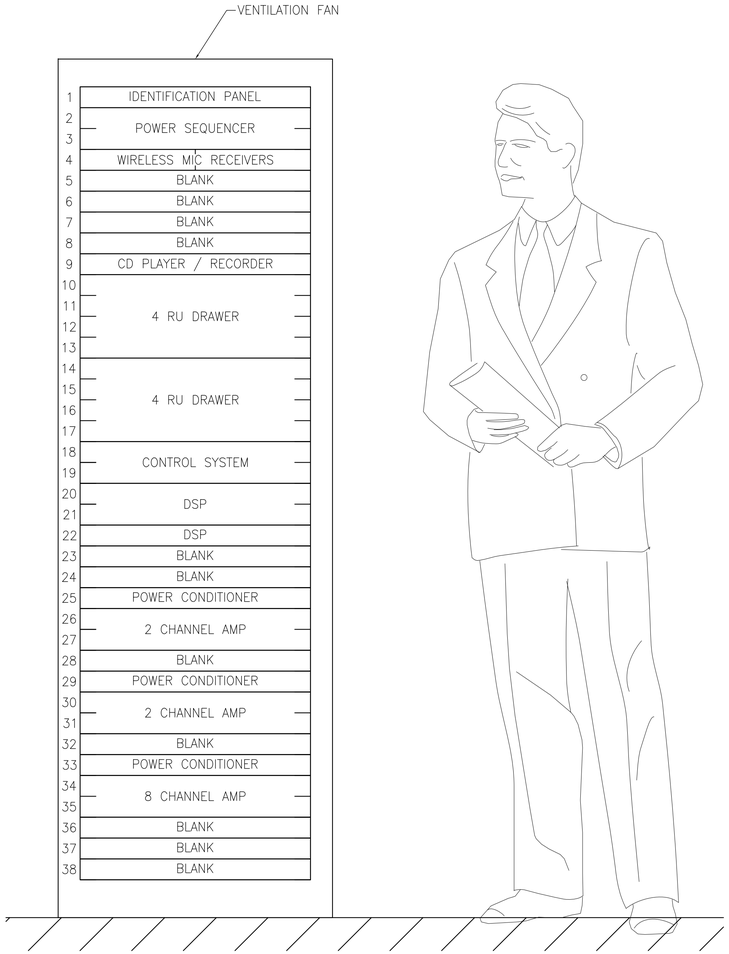
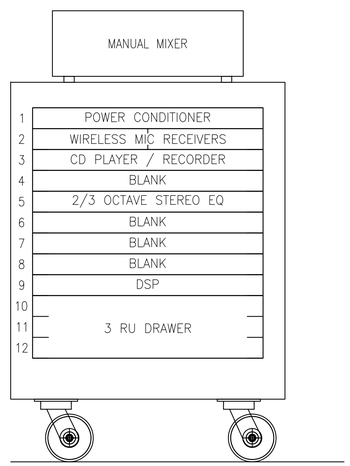


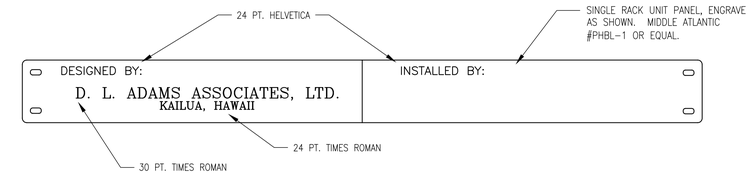
1 SS-5.2 PERMANENT SOUND SYSTEM EQUIPMENT RACK

SCALE: 2"=1'-0"



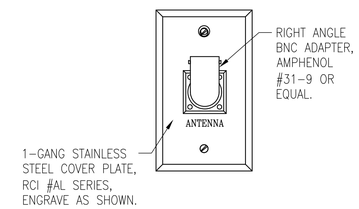
2 SS-5.2 PORTABLE SOUND SYSTEM EQUIPMENT RACK

SCALE: 2"=1'-0"



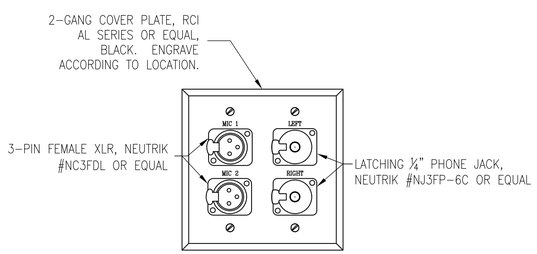
3 SS-5.2 IDENTIFICATION PANEL

SCALE: 6"=1'-0"



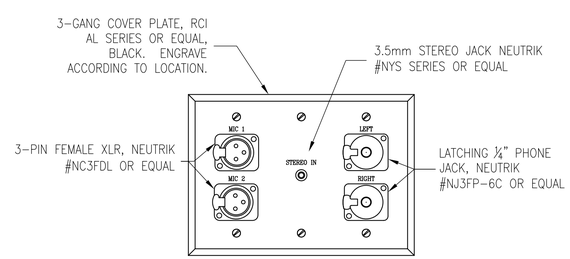
4 SS-5.2 ALS TRANSMITTER RECEPTACLE

SCALE: 6"=1'-0"



5 SS-5.2 PRESENTATION AUDIO INPUT RECEPTACLE

SCALE: 6"=1'-0"



6 SS-5.2 SCOREKEEPER'S AUDIO INPUT RECEPTACLE

SCALE: 6"=1'-0"

NOTE:
INCREMENT AUDIO INPUT NUMBERING BETWEEN ALL SOUND SYSTEM INPUT PANELS

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REVISION	DATE	DESCRIPTION	MADE BY	APPROVED

DAVID L. ADAMS
LICENSED PROFESSIONAL ENGINEER
No. 7198-E
HAWAII, U.S.A.

This work was prepared by me or under my supervision and construction of this project will be under my observation.

LICENSE EXPIRATION 4/30/14

COUNTY OF HAWAI'I
DEPARTMENT OF PUBLIC WORKS, BUILDING DIVISION

NEW KA'U DISTRICT GYMNASIUM & SHELTER AT KA'U AND PAHALA ELEMENTARY SCHOOL CAMPUS
JOB NO. B-4108

PA'AU'AU AHUPUA'A, DISTRICT, HAWAI'I
ISLAND AND COUNTY OF HAWAII
96-2150 PIKAKE STREET, PAHALA, HAWAII 96777
TMK: (3) 9-6-05: 08 & 39

SOUND SYSTEM RACK LAYOUTS AND DETAILS

REVIEWED:

DIVISION CHIEF
BUILDING DIVISION
DEPARTMENT OF PUBLIC WORKS

DATE 2012 MAY-30

DESIGN BY:	APD
DRAWN BY:	APD
CHECKED BY:	SAB

SHEET NO.
SS-5.2
OF SHTS