

OWNER

UTAH VALLEY UNIVERSITY
School of the Arts
800 West University Parkway
Orem, UT 84058
(801) 863-6820

OWNER

DFCM
4110 State Office Building
Salt Lake City, UT 84114
(801) 533-3018

ARCHITECT

Method Studio, Inc.
925 South West Temple
Salt Lake City, UT 84101
(801) 533-4422

CIVIL

Ensign Engineering
169 North Main Street, Unit 1
Tooele, UT 84074
(435) 843-3590

STRUCTURAL

Reavely Engineers + Associates
675 East 500 South, Suite 500
Salt Lake City, UT 84101
(801) 486-3883

MECHANICAL

Colvin Engineering
244 West 300 North
Salt Lake City, UT 84103
(801) 322-2400

ELECTRICAL

Spectrum Engineers
324 South State Street, Suite 400
Salt Lake City, UT 84101
(801) 328-5151

LANDSCAPE

Loft Six Four
9500 South 500 West
Sandy, UT 84070
(801) 580-3325

THEATER

Arup
77 Water Street
New York, NY 10005
(212) 896-3300



IMAGE FOR REFERENCE ONLY

UVU PERFORMING ARTS COMPLEX

SCHEMATIC DESIGN 5/2/2016

DFCM PROJECT NO. 15125790

SHEET INDEX

- GI101 - CODE ANALYSIS
- GI102 - CODE PLAN LEVEL MAIN LEVEL
- GI103 - CODE PLAN LEVEL SECOND LEVEL
- LP101 - LANDSCAPE CONCEPT PLAN
- AS101 - ARCHITECTURAL SITE PLAN
- AE100A - ORCHESTRA PIT LEVEL PLAN
- AE100B - GALLERY LEVEL PLAN
- AE101 - MAIN LEVEL PLAN
- AE102 - SECOND LEVEL PLAN
- AE103 - WALL TYPE PLAN MAIN LEVEL
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- AE201 - EXTERIOR ELEVATIONS
- AE301 - BUILDING SECTIONS
- AE310 - WALL SECTIONS
- AE401 - ENLARGED CONCERT HALL PLANS
- AE402 - ENLARGED PROSCENIUM THEATRE PLANS
- AE501 - WALL TYPES
- CIVIL SCHEMATIC PLANS
- CIVIL AUTO-TURN EXHIBITS
- STRUCTURAL SCHEMATIC PLANS
- ELECTRICAL SCHEMATIC PLANS

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METHOD STUDIO INC.
925 South West Temple
Salt Lake City, Utah 84101
phone: (801) 533-4422

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project:
UVU PERFORMING
ARTS COMPLEX

project#:
date: 5/2/2016

revisions:

title:
Cover Sheet

sheet:
GI001

SCHEMATIC DESIGN

CODE ANALYSIS

APPLICABLE CODES

	Year		Year
International Building Code	2015	National Electrical Code	2011
International Mechanical Code	2012	Uniform Code for Building Conservation	
International Plumbing Code	2012	ADA Accessibility Guidelines	2010
International Fire Code	2012		
International Energy Conservation Code	2015		

A. Occupancy and Group: B A-1
 Change in Use: Yes No X Mixed Occupancy: Yes X No
 Special Use and Occupancy (e.g. High Rise, Covered Mall): N/A

B. Seismic Design Category: D Design Wind Speed: 120 mph

C. Type of Construction (circle one):

I A	I B	II A	II B	III A	III B	IV HT	V A	V B
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D. Fire Resistance Rating Requirements for the Exterior Walls based on the fire separation distance (in hours):
 North: 1 South: 0 East: 0 West: 0

E. Separation:
 Separated: X Non-separated: Accessory:

F. Sprinklers: Fully sprinkled
 Required: Yes Provided: Yes Type of Sprinkler System: NFPA 13
 2 above grade, 1 basement 75'-0"

G. Number of Stories: Building Height:

H. Actual Area per Floor (square feet):
 Basement total = 5,200sf (considered accessory to A1, they are orchestra pits?)
 Level 1 total = 75,589 sf 30,148 of A-1 & 45,441 of B
 Level 2 total = 48,246 sf 11,838 of A-1 & 36,408 of B

I. Total Area: 130,735

J. Area Modifications: (Table 503 IBC 2012)
 Allowable Area =

Mixed use option 2 Section 506 Equation 5-3 (assume IIB construction, sprinkled 2 story)
 $A_a = \{A_a + [NS \times I_a] \quad If = [F/P - .25] \times W/30 \quad If = 1212/1459 - .25 \times 1 = .58$
 LVL 1 A-1: 25,500 + [8,500 x .58] = 30,430 sf > than actual see above
 LVL 1 B: 69,000 + [23,000 x .58] = 82,340 sf > than actual see above
 LVL 2 A-1: 25,500 + [8,500 x .58] = 30,430 sf > than actual see above
 LVL 2 B: 69,000 + [23,000 x .58] = 82,340 sf > than actual see above

K. Fire Resistance Rating Requirements for Building Elements (hours).

Element	Hours	Assembly Listing	Element	Hours	Assembly Listing
Exterior Bearing Walls	0		Floors - Ceiling Floors	0	
Interior Bearing Walls	0		Roofs - Ceiling Roofs	0	
Exterior Non-Brg. Walls	0		Exterior Doors & Windows	0	
Structural Frame	0		Shaft Enclosures	1	
Partitions - Permanent	0		Fire Walls	1 & 2	
Fire Barriers	1		Fire Partitions	N/A	
			Smoke Partitions	N/A	

L. Design Occupant Load: 1,791
 Exit Width Required: 358.0" Exit Width Provided: 654.0"

M. Minimum Number of Required Plumbing Facilities: See GI005 for calculations

- FOOTNOTES:
- In case of conflict with the U.S. Department of Justice Federal Registers Parts I through V - ADA Guidelines and specific reference to the International Building Code Accessibility Chapters, the more restrictive requirement shall govern.
 - Additional Code Information shall be provided at the discretion of the Building Official for Complex Buildings. Including, but not limited to:
 - High Rise Requirements.
 - Atriums.
 - Performance Based Criteria.
 - Means or Egress Analysis.
 - Fire Assembly Locator Sheet.
 - Exterior and Interior Accessibility Route.
 - Fire Stopping, Including Tested Design Number.
 - See Code Plan Sheets for Additional Information.

THESE DOCUMENTS MEET ALL REQUIREMENTS OF THE DFCM STANDARDS FOUND AT WWW.DFCM.UTAH.GOV
 GENERAL NOTE: SEE SHEET GI006 FOR FIRE PENETRATION DETAILS

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project:
 UVU PERFORMING
 ARTS COMPLEX

project#:
date: 5/2/2016

revisions:

title:
**Code
 Analysis**

sheet:
GI101

SCHEMATIC DESIGN

GRAPHIC LEGEND

1 HOUR RATED AREAS- WALLS, FIRE BARRIER 4430, SEE SHEET G1105 & WALL TYPES FOR REQUIRED UL LISTING ASSEMBLY, PROVIDE APPLIED FIRE PROOFING TO FLOOR AND STRUCTURAL SUPPORT MEMBERS

2 HOUR RATED AREAS- WALLS, FIRE BARRIER 4430, SEE SHEET G1105 & WALL TYPES FOR REQUIRED UL LISTING ASSEMBLY, PROVIDE APPLIED FIRE PROOFING TO FLOOR AND STRUCTURAL SUPPORT MEMBERS

B BUSINESS OCCUPANCY
 OFFICE = 100 SQ FT PER OCC.
 EDUCATION = 20 SQ FT PER OCC.
 STORAGE = 300 SQ FT PER OCC.
 SHOP = 50 SQ FTP PER OCC.

A-1 OCCUPANCY
 THEATRE = FIXED SEATS
 CONCERT = FIXED SEATS
 STAGE = 15 SQ FT PER OCC.

UNOCCUPIED SPACES

FIRE EXTINGUISHER

- FIRE EXTINGUISHER IN SEMI-RECESSED CABINET
- FIRE EXTINGUISHER SURFACE MOUNTED ON WALL HOOK
- FIRE EXTINGUISHER CLASS 'K' SURFACE MOUNTED ON WALL HOOK

PATH OF EGRESS

- COMMON PATH OF EGRESS (CPE)**
 ALLOWABLE DISTANCE = 100'-0"
 TOTAL USED DISTANCE = 94'-0"
 IBC Table 1014.3
- TRAVEL DISTANCE (TD)**
 ALLOWABLE EXIT DISTANCE = 250'-0"
 TOTAL USED EXIT DISTANCE = 250'-0"
 IBC Section 1016.3 & Table 1016.2
- POINT AT WHICH A CHOICE OF 2 EXITS BECOMES AVAILABLE

IN ADDITION TO THE FIRE RATING REQUIREMENTS FOR A TYPE II-B CONSTRUCTION THE STAGE AND APPURTENANT SPACES MUST BE FIRE RATED ACCORDING TO SECTION 410.

THE THEATRE STAGE WILL HAVE A 2 HOUR RATING 410.5.1 AND THE TRAP ROOM BELOW THE STAGE WILL HAVE A HIGHER LEVEL PERFORMING SYSTEM.

THE SCENE SHOP WILL HAVE A 1 HOUR RATING PER 410.5.2 AND A HIGHER LEVEL PERFORMING SPRINKLER SYSTEM. ADDITIONALLY THE DRESSING ROOMS, AND REHEARSAL/CLASSROOM WILL HAVE A 1 HOUR RATING 410.5.2. THE STAIR ENCLOSURES 707.4, ELEVATOR SHAFT 707.4 AREAS OF REFUGE (1003.2.13.5.2, 709.3 AND DUCT CHASES (707.4) ARE REQUIRED TO HAVE A 1 HOUR RATING

CALCULATIONS LEVEL 1

TOTAL SQUARE FOOTAGE LEVEL 1 **75,589**

OCCUPANCY

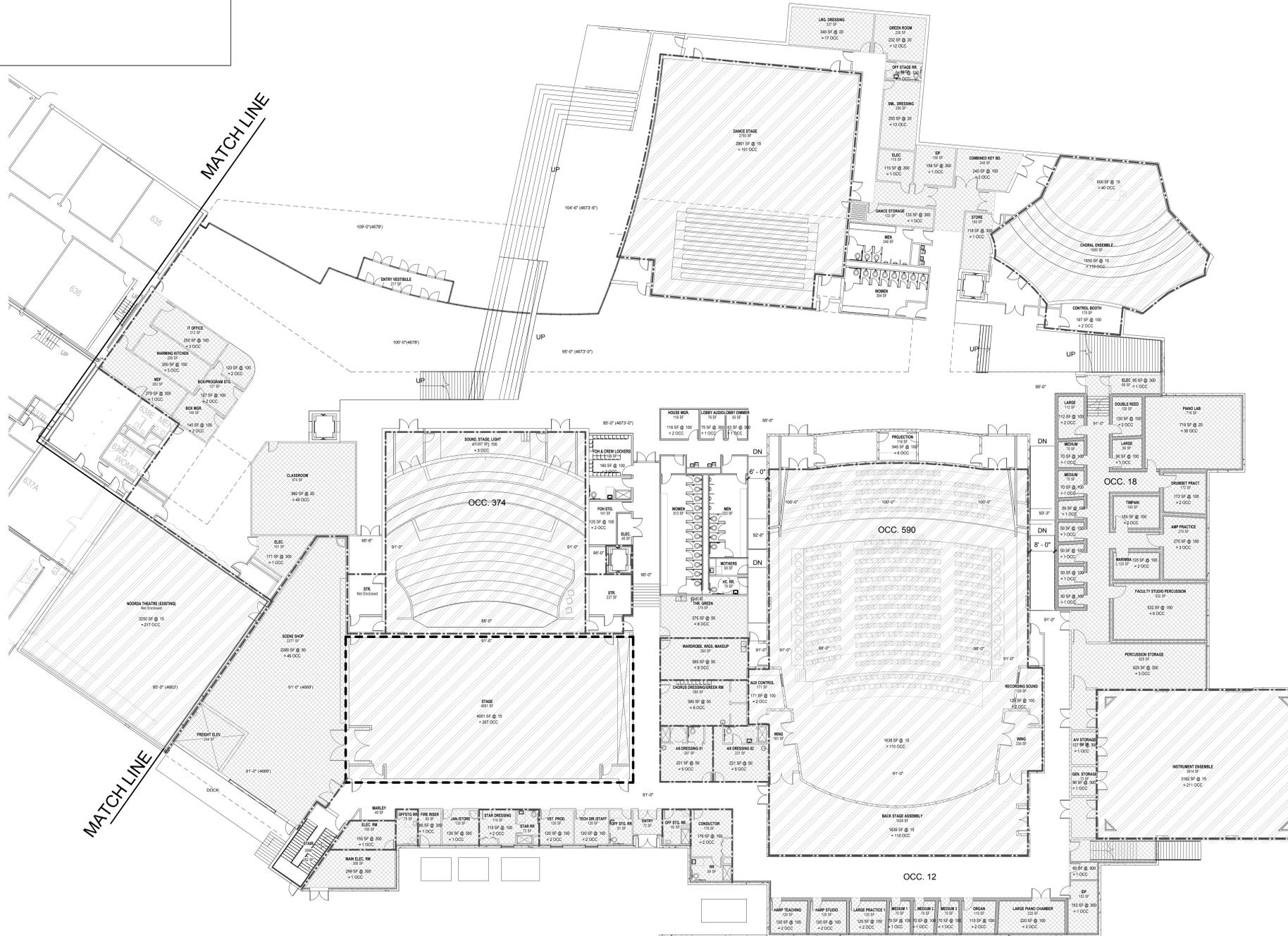
A-1	2183
B	305
TOTAL LEVEL 1 OCC	2488

EGRESS WIDTH

DOOR EGRESS WIDTH REQUIRED	TBD
DOOR EGRESS WIDTH PROVIDED	TBD

PLUMBING

LEVEL 1										
Occupancy	Occupant Load	Water Closets	Ratio	F	Lavatories	Drinking Fountain	Service Sink			
A-1	2183 1092 M	1/125	8.8	1/65	16.8	1/200	10.9	1/500	4.37	1
B	305 153 M	1/25=50 1/50=50	4.1	1/25=50 1/50=50	4.1	1/40=80 1/80=80	7.7	1/100	3.31	1
Sub Total		12.84		20.9		18.6		7.998	-	-
Total Req.		13		21		19		8	-	-
Provided		20		26		TBD		-	-	-



1 MAIN LEVEL FLOOR PLAN
 1/16" = 1'-0"

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project:
 UVU PERFORMING
 ARTS COMPLEX

project#:
date: 5/2/2016

revisions:

title:
**Code Plan -
 Main Level**

sheet:

G102

SCHEMATIC DESIGN

GRAPHIC LEGEND

1 HOUR RATED AREAS- WALLS, FIRE BARRIER 4430, SEE SHEET G105 & WALL TYPES FOR REQUIRED UL LISTING ASSEMBLY, PROVIDE APPLIED FIRE PROOFING TO FLOOR AND STRUCTURAL SUPPORT MEMBERS

2 HOUR RATED AREAS- WALLS, FIRE BARRIER 4430, SEE SHEET G105 & WALL TYPES FOR REQUIRED UL LISTING ASSEMBLY, PROVIDE APPLIED FIRE PROOFING TO FLOOR AND STRUCTURAL SUPPORT MEMBERS

B BUSINESS OCCUPANCY
 OFFICE = 100 SQ FT PER OCC.
 EDUCATION = 20 SQ FT PER OCC.
 STORAGE = 300 SQ FT PER OCC.
 SHOP = 50 SQ FT PER OCC.

A-1 OCCUPANCY
 THEATRE = FIXED SEATS
 CONCERT = FIXED SEATS
 STAGE = 15 SQ FT PER OCC.

UNOCCUPIED SPACES

FIRE EXTINGUISHER

- FIRE EXTINGUISHER IN SEMI-RECESSED CABINET
- FIRE EXTINGUISHER SURFACE MOUNTED ON WALL HOOK
- FIRE EXTINGUISHER CLASS 'K' SURFACE MOUNTED ON WALL HOOK

PATH OF EGRESS

- COMMON PATH OF EGRESS (CPE)**
 ALLOWABLE DISTANCE = 100'-0"
 TOTAL USED DISTANCE = 84'-0"
 IBC Table 1014.3
- TRAVEL DISTANCE (TD)**
 ALLOWABLE EXIT DISTANCE = 250'-0"
 TOTAL USED EXIT DISTANCE = 250'-0"
 IBC Section 1016.3 & Table 1016.2
- POINT AT WHICH A CHOICE OF 2 EXITS BECOMES AVAILABLE**

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CALCULATIONS LEVEL 2

TOTAL SQUARE FOOTAGE LEVEL 2 **49,146**

OCCUPANT LOAD

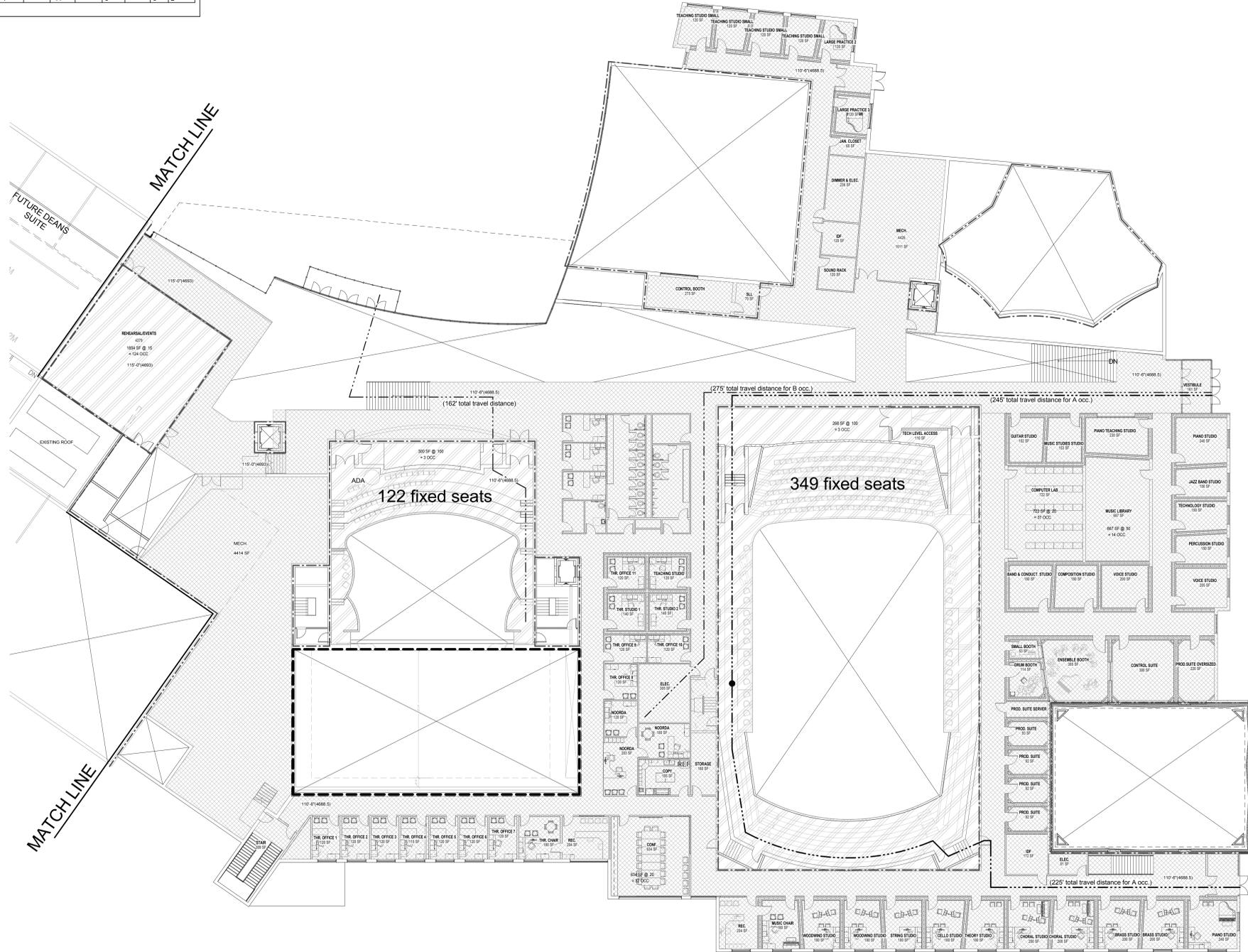
A-1	595
B	241
TOTAL LEVEL 2 OCC	836

EGRESS WIDTH

DOOR EGRESS WIDTH REQUIRED	TBD
DOOR EGRESS WIDTH PROVIDED	TBD

PLUMBING

LEVEL 2		Water Closets		Lavatories		Drinking Fountain		Service Sink	
Occupancy	Occupant Load	Ratio	M	Ratio	F	Ratio	F	Ratio	F
A-1	595	1/125	2.4	1/65	4.6	1/200	3	1/500	2
B	241	1/25+50	2.42	1/25+50	2.42	1/40+80	4.1	1/100	2.41
	121 M	1/50+50		1/50+50		1/80+80			
Sub Total			4.82		7.02		7.1		4.41
Total Req.			5		8		8		5
Provided			7		11		8		5



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project:
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 ARTS COMPLEX

project#:
date: 5/2/2016

revisions:

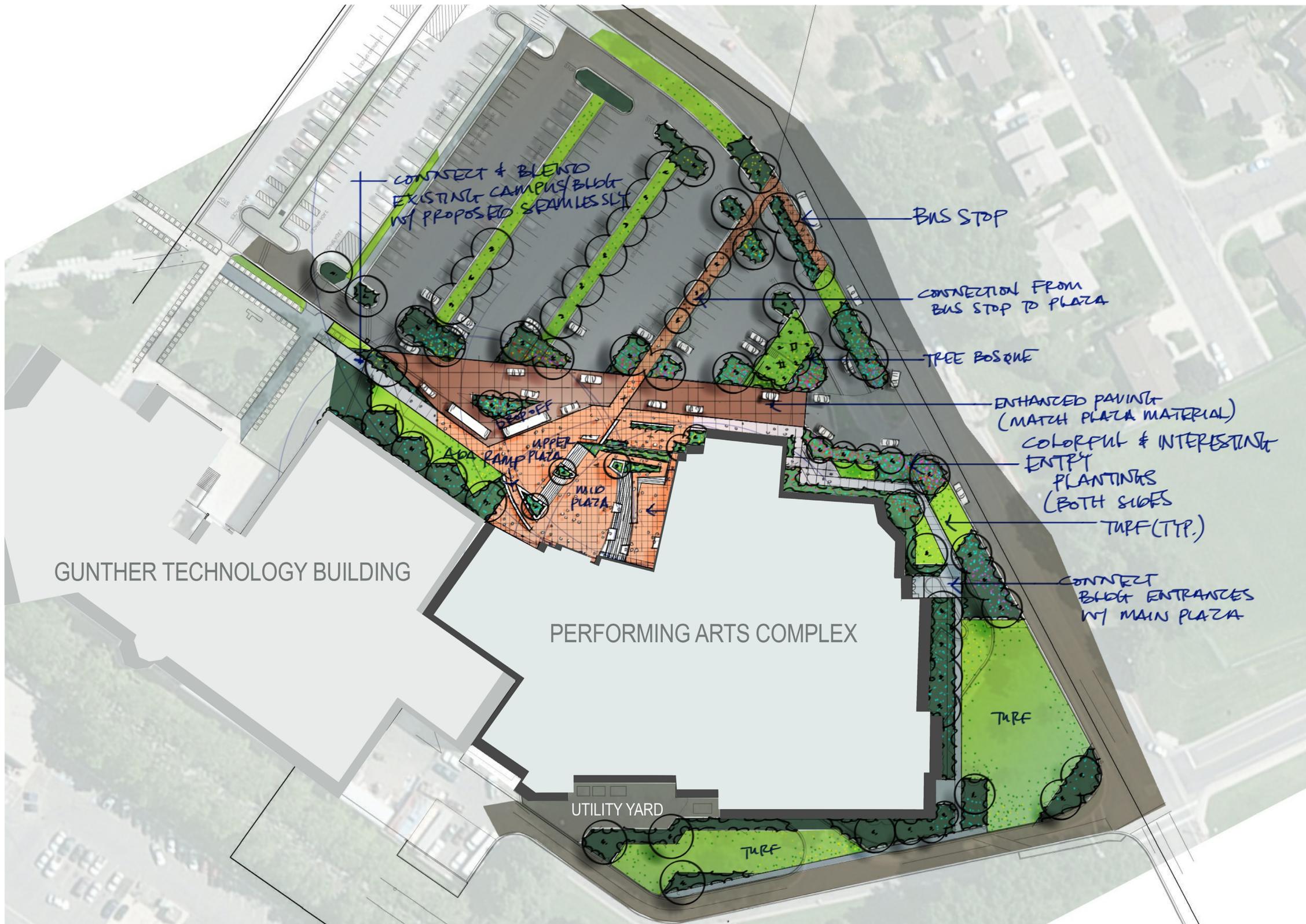
title:
**Code Plan -
 Second Level**

sheet:

G103

SCHEMATIC DESIGN

1 GT 6.5 LEVEL 2 BALCONY Code
 1/16" = 1'-0"



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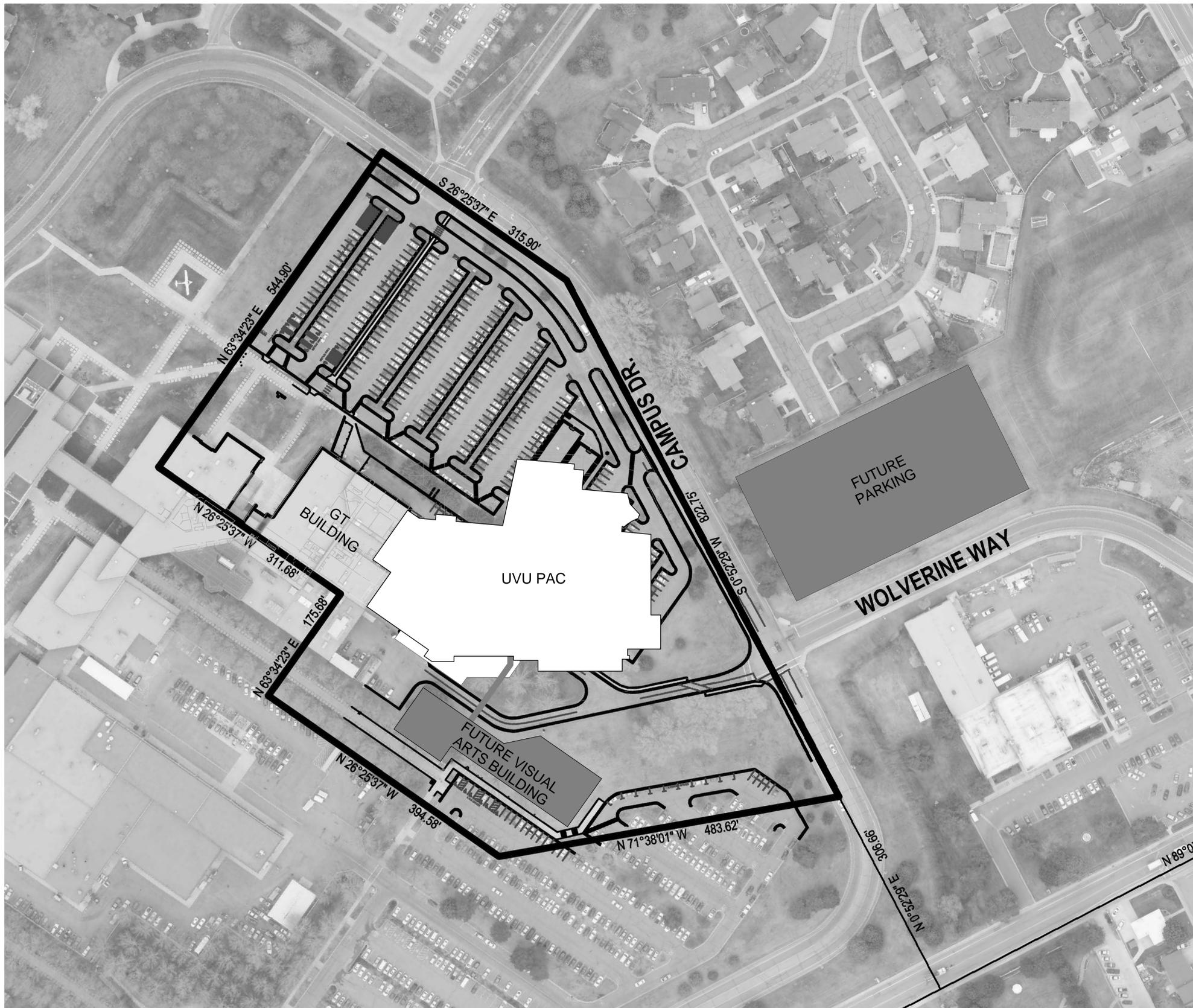
revisions:

title:
 Landscape
 Plan

sheet:

LP101

SCHEMATIC DESIGN



1 SITE PLAN
1" = 60'-0"

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ARTS COMPLEX

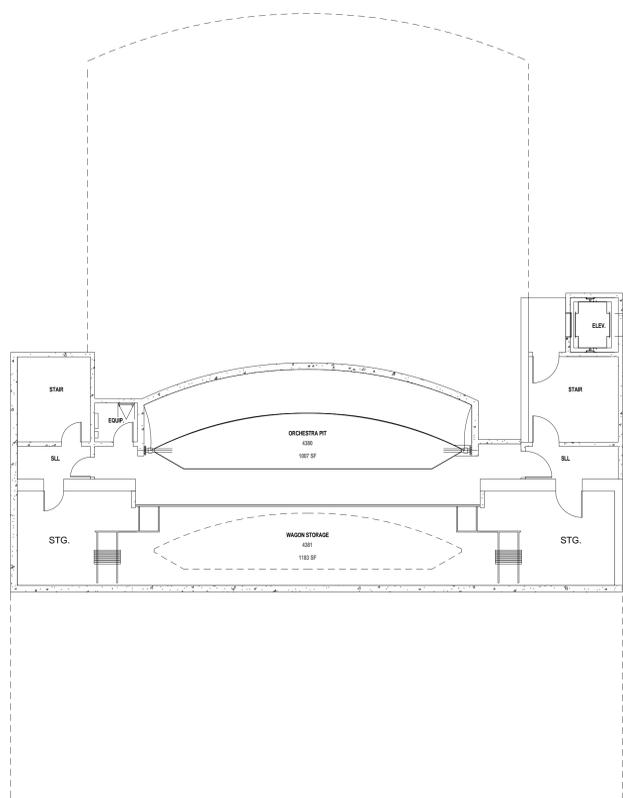
project#:
date: 5/2/2016

revisions:

title:
Architectural
Site Plan

sheet:
AS101

SCHEMATIC DESIGN

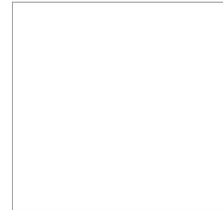


1 00 - ORCHESTRA PIT LEVEL
3/32" = 1'-0"

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ARTS COMPLEX

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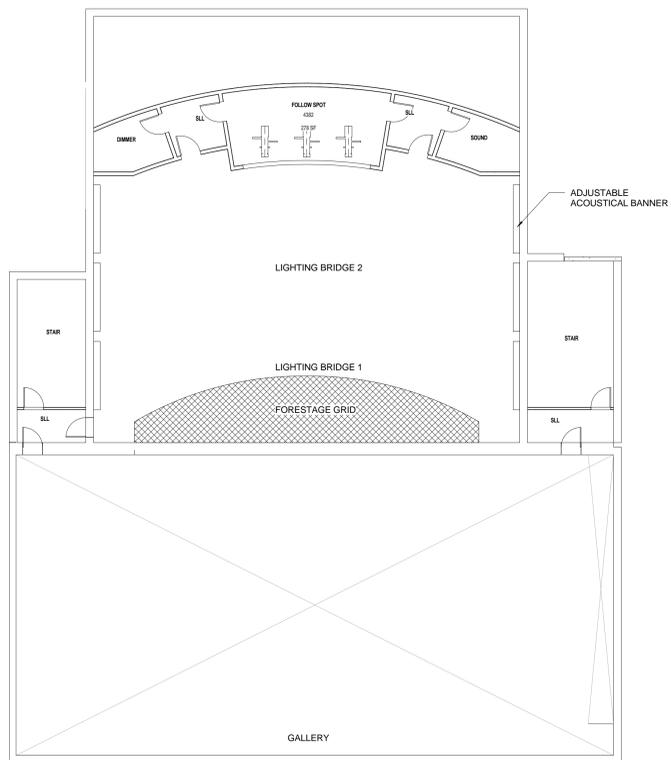
revisions:

title:
**Orchestra Pit
Level Floor
Plan**

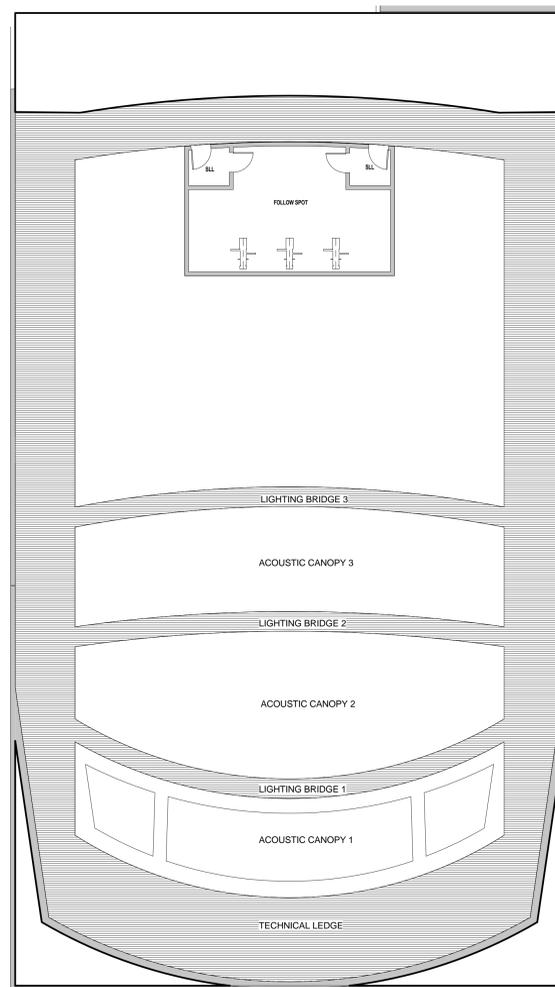
sheet:

AE100A

SCHEMATIC DESIGN



1 GALLERY LEVEL (121'-0")
3/32" = 1'-0"



2 CONCERT HALL TECH LEVEL
3/32" = 1'-0"

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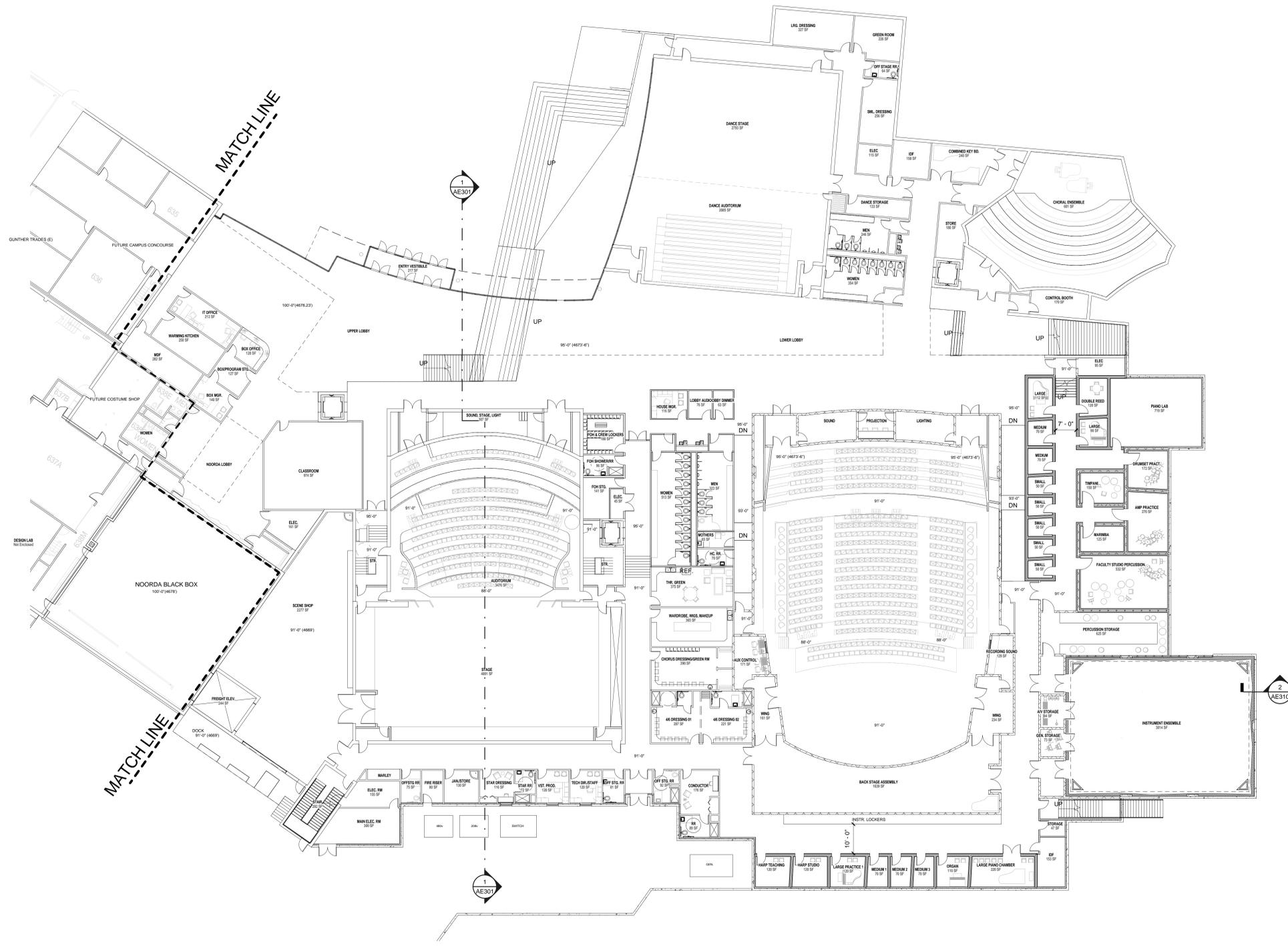
project:
UVU PERFORMING
ARTS COMPLEX

project#:
date: 5/2/2016
revisions:

title:
**Gallery Level
Floor Plan**

sheet:
AE100B

SCHEMATIC DESIGN



1 MAIN LEVEL FLOOR PLAN
1/16" = 1'-0"

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project:
UVU PERFORMING
ARTS COMPLEX

project#:
date: 5/2/2016

revisions:

title:
Main Level
Overall Floor
Plan

sheet:

AE101

SCHEMATIC DESIGN

1 SECOND LEVEL (110'-0")
1/16" = 1'-0"

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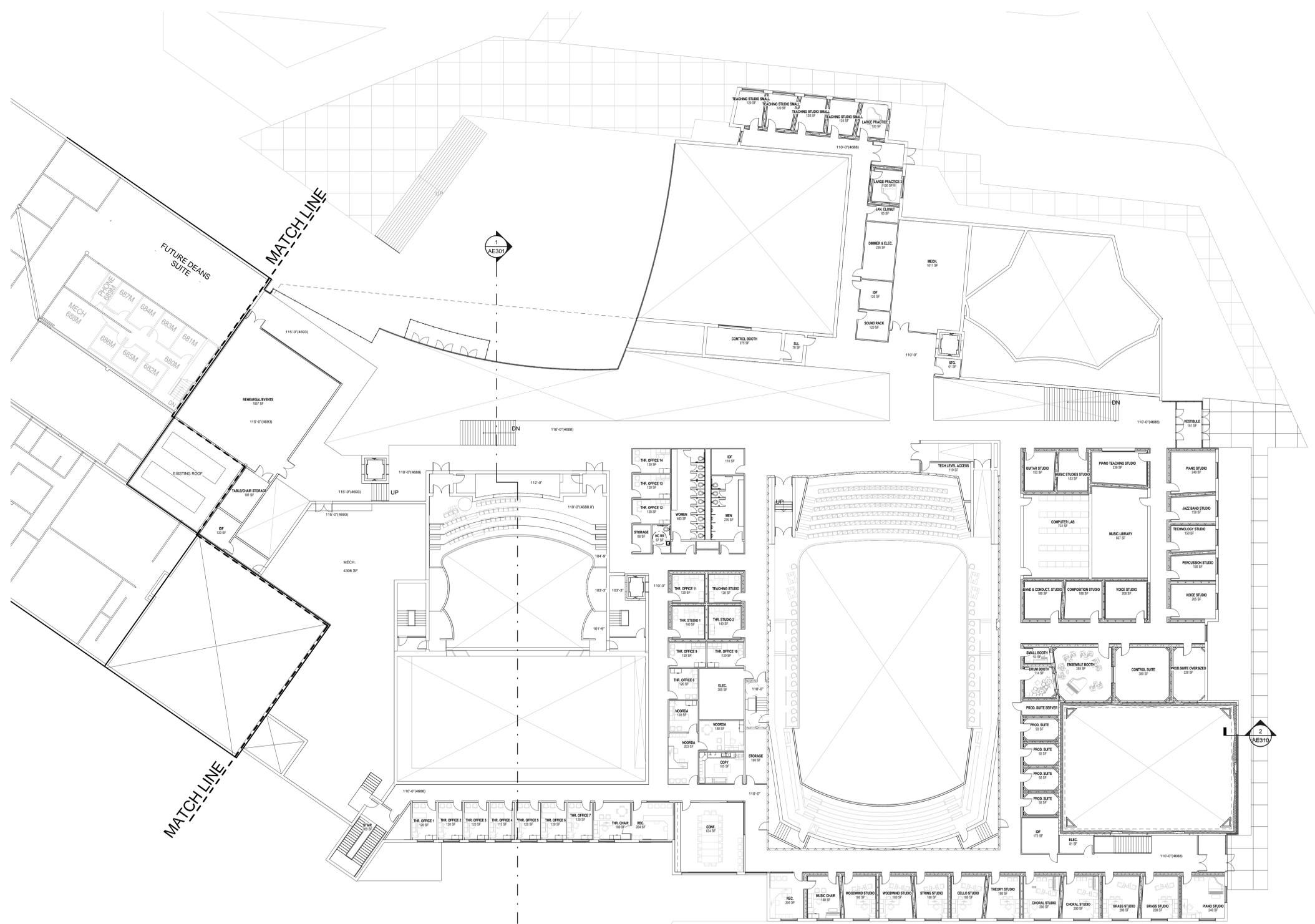
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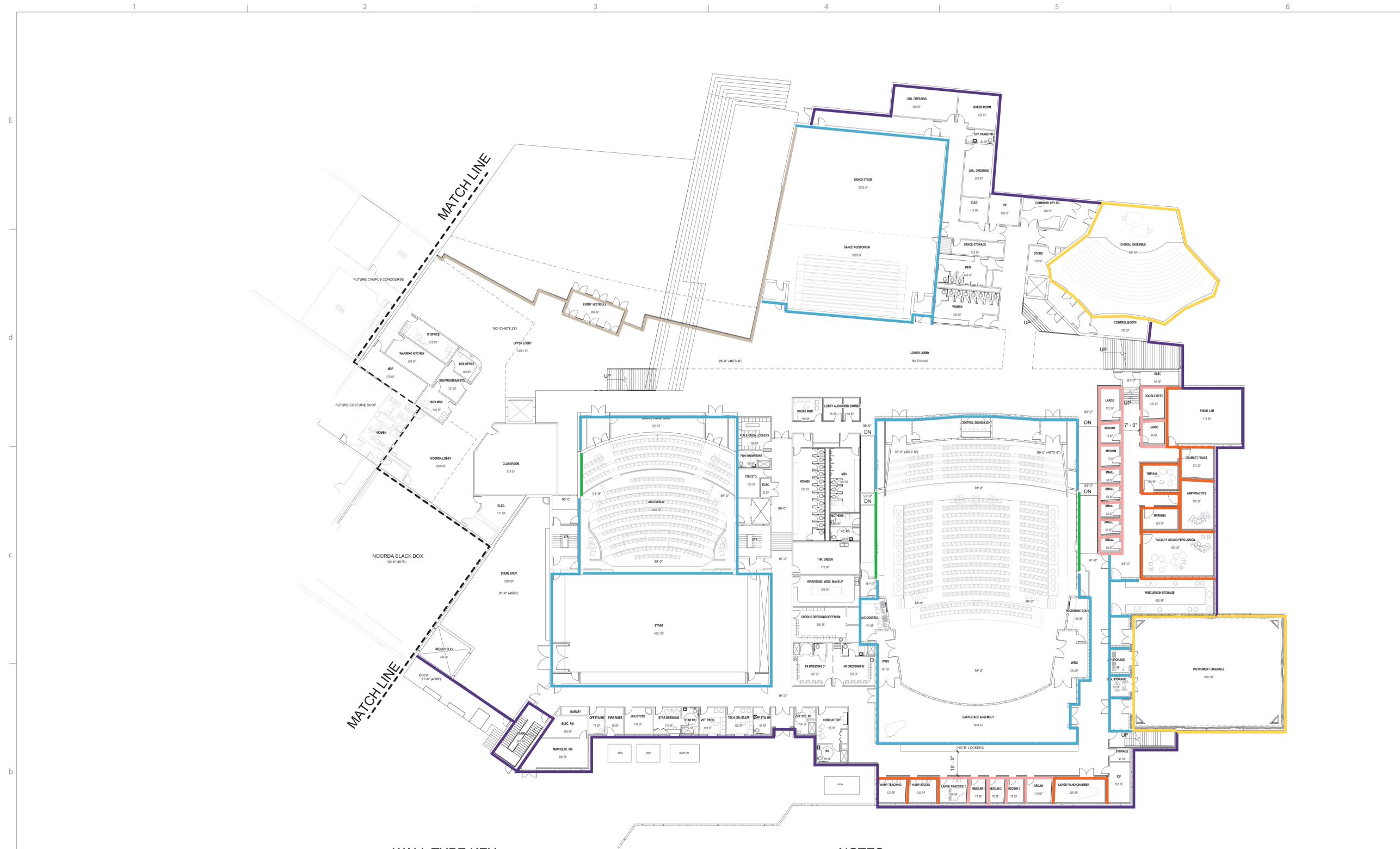
title:
Second Level
Overall Floor
Plan

sheet:

AE102

SCHEMATIC DESIGN





1 MAIN LEVEL FLOOR PLAN
1/16" = 1'-0"

WALL TYPE KEY

- PERFORMANCE VENUE - MIN. 8" GROUT FILLED MASONRY WITH STRUCTURAL PILASTERS
- PERFORMANCE VENUE - MIN. 8" GROUT FILLED MASONRY PLUS 2-LAYER GYPSUM ON SEPARATE STUDS ON CORRIDOR SIDE.
- EXTERIOR WALL TYPE - (DETAILS EM1-EM4, SHEET AE501)
- TEACHING STUDIO SOUND ISOLATION SCHEME (DETAIL SK001)
- PRACTICE ROOM SOUND ISOLATION SCHEME (DETAIL SK002)
CORRIDOR WALLS CAN BE 2-LAYERS ON EACH SIDE OF SINGLE 3-5/8" STUD WALL PROVIDED THAT WALL IS BROKEN BETWEEN EACH PRACTICE ROOM
- ENSEMBLE ROOMS - 12" MASONRY
- CURTAIN WALL

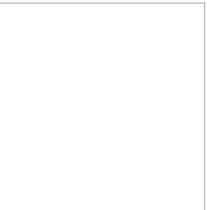
NOTES

- ALL PERFORMANCE SPACES TO HAVE CUSTOM SHAPED WALLS FOR ACOUSTICS. SEE ARUP NARRATIVES.
- BACK-OF-HOUSE SPACES TO BE PAINTED CMU OR PAINTED GYPSUM BOARD.
- FRONT-OF-HOUSE / LOBBY ZONES TO BE PREMIUM MATERIALS: HIGH GRADE PORCELAIN TILE W / MIX OF WOOD VENEER AND PAINTED GYPSUM BOARD.
- SEE ELEVATIONS FOR LOCATION OF EXTERIOR WALL TYPES.

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SALT LAKE CITY, UTAH 84101
PHONE: (801) 532-4422

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project:
UVU PERFORMING
ARTS COMPLEX

project#:
date: 4/21/2016
revisions:

title:
**Wall Type
Plan - Lobby
Level**

sheet:
AE103

SCHEMATIC DESIGN



1 GT 6.5 LEVEL 2 BALCONY
1/16" = 1'-0"

WALL TYPE KEY

- PERFORMANCE VENUE - MIN. 8" GROUT FILLED MASONRY WITH STRUCTURAL PILASTERS
- PERFORMANCE VENUE - MIN. 8" GROUT FILLED MASONRY PLUS 2-LAYER GYPSUM ON SEPARATE STUDS ON CORRIDOR SIDE.
- EXTERIOR WALL TYPE - (DETAILS EM1-EM4, SHEET AE501)
- TEACHING STUDIO SOUND ISOLATION SCHEME (DETAIL SK001)
- PRACTICE ROOM SOUND ISOLATION SCHEME (DETAIL SK002)
CORRIDOR WALLS CAN BE 2-LAYERS ON EACH SIDE OF SINGLE 3-5/8" STUD WALL PROVIDED THAT WALL IS BROKEN BETWEEN EACH PRACTICE ROOM
- ENSEMBLE ROOMS - 12" MASONRY
- CURTAIN WALL

NOTES

- ALL PERFORMANCE SPACES TO HAVE CUSTOM SHAPED WALLS FOR ACOUSTICS. SEE ARUP NARRATIVES.
- BACK-OF-HOUSE SPACES TO BE PAINTED CMU OR PAINTED GYPSUM BOARD.
- FRONT-OF-HOUSE / LOBBY ZONES TO BE PREMIUM MATERIALS: HIGH GRADE PORCELAIN TILE W / MIX OF WOOD VENEER AND PAINTED GYPSUM BOARD.
- "TEACHING STUDIO" ISOLATION SCHEME MINIMUM REQUIRED FOR "REHEARSAL" USE. DOUBLE MASONRY CONSTRUCTION (WITH 4-INCH AIRSPACE) IS RECOMMENDED TO LIMIT DISTURBANCE DURING CONCURRENT PERFORMANCE USE.
- SEE ELEVATIONS FOR LOCATION OF EXTERIOR WALL TYPES.

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project:
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project#:
date: 4/21/2016
revisions:

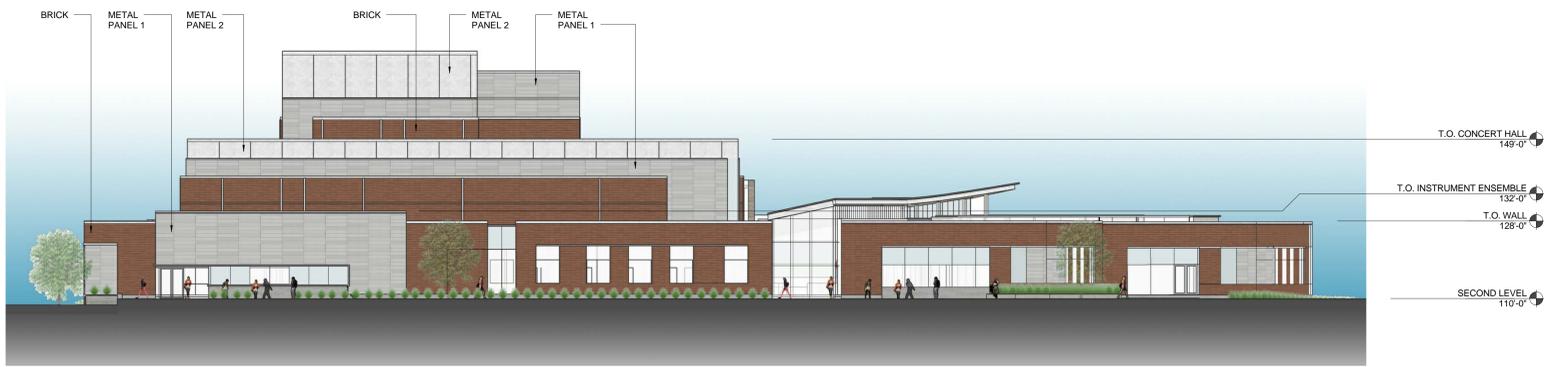
title:
**BALCONY
LEVEL**

sheet:
AE104

SCHEMATIC DESIGN



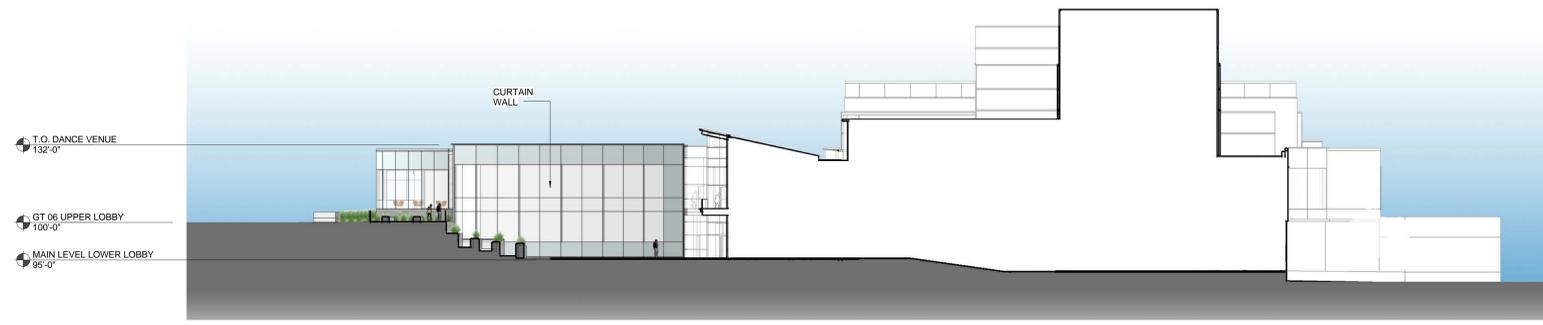
EAST ELEVATION



SOUTH ELEVATION



WEST ELEVATION



PARTIAL NORTH ELEVATION

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project:
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project#:
 date: 5/2/2016

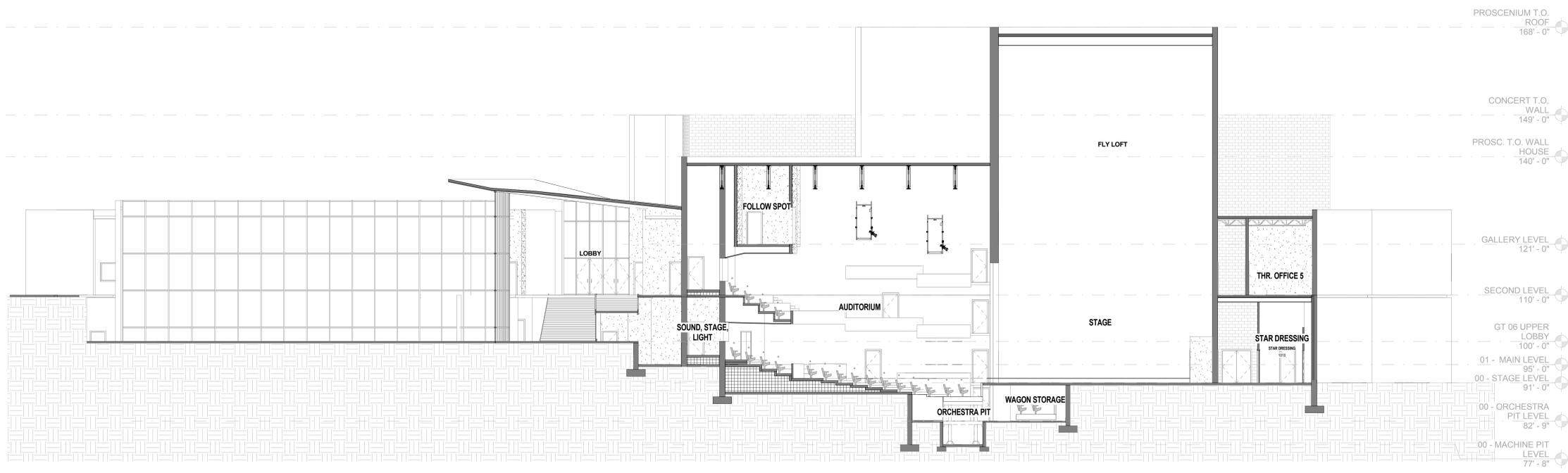
revisions:

title:
 Exterior
 Elevations

sheet:

AE201

SCHEMATIC DESIGN



- PROSCENIUM T.O. ROOF 168' - 0"
- CONCERT T.O. WALL 149' - 0"
- PROSC. T.O. WALL HOUSE 140' - 0"
- GALLERY LEVEL 121' - 0"
- SECOND LEVEL 110' - 0"
- GT 06 UPPER LOBBY 100' - 0"
- 01 - MAIN LEVEL 95' - 0"
- 00 - STAGE LEVEL 91' - 0"
- 00 - ORCHESTRA PIT LEVEL 82' - 9"
- 00 - MACHINE PIT LEVEL 77' - 8"

1 Section 2
3/32" = 1'-0"

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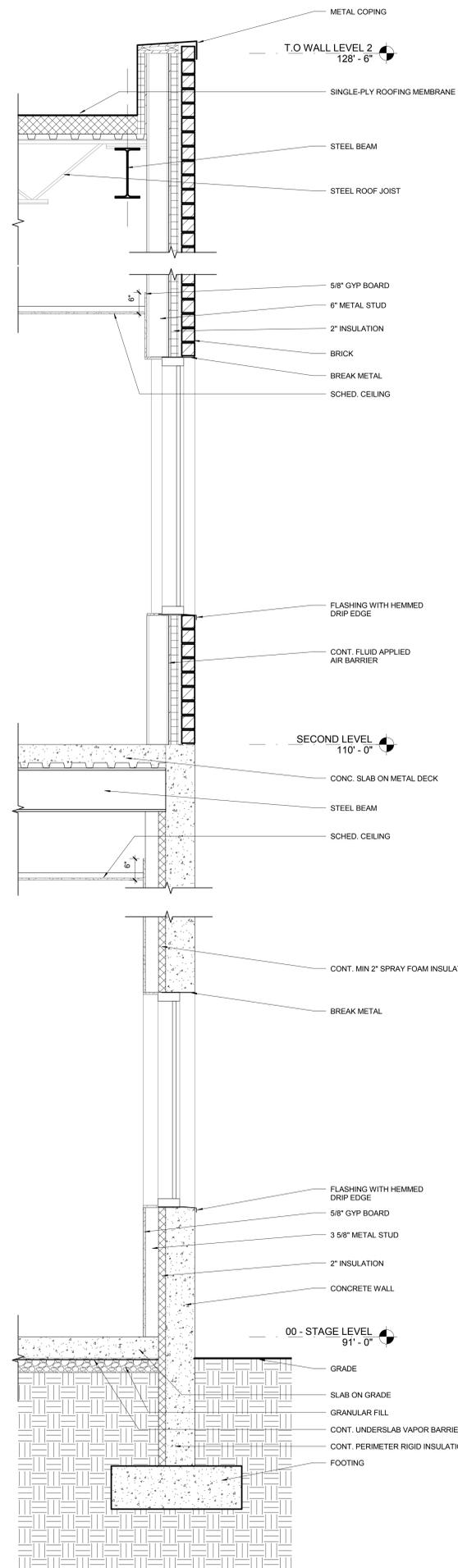
project:
UVU PERFORMING
ARTS COMPLEX

project#:
date: 5/2/2016
revisions:

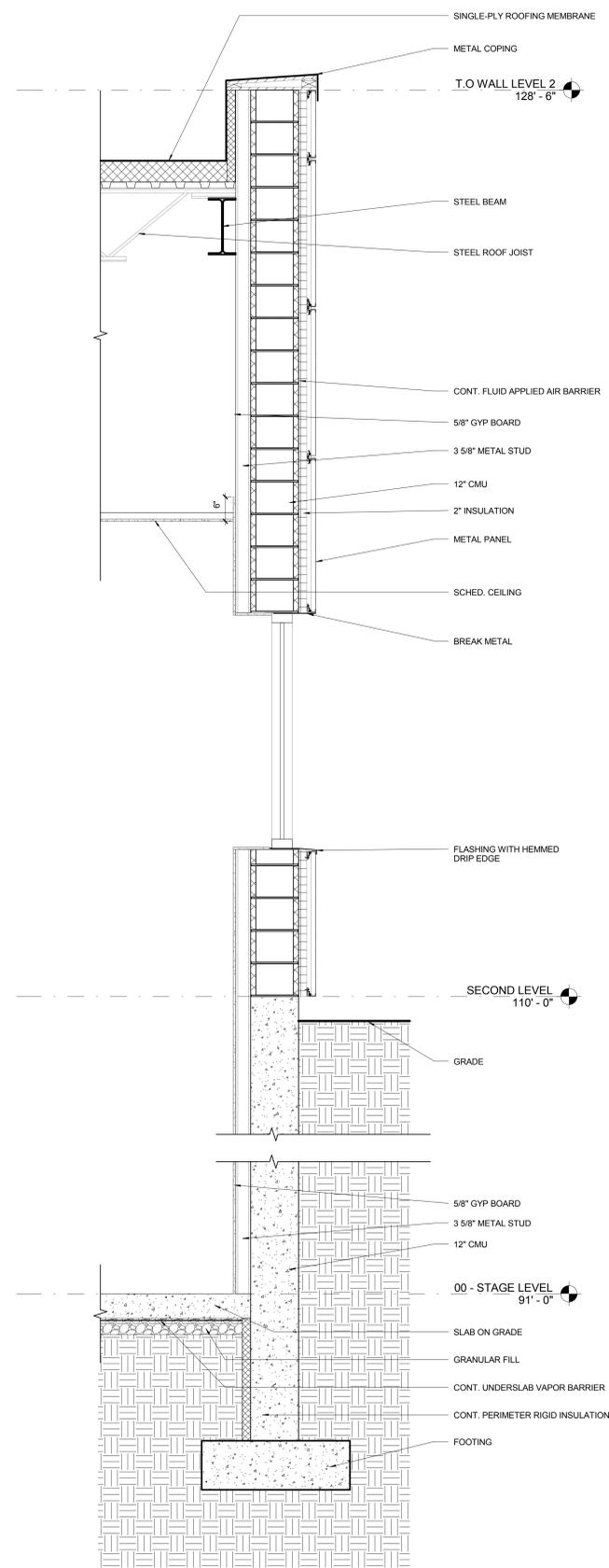
title:
**Building
Sections**

sheet:
AE301

SCHEMATIC DESIGN



1 Section 6
3/4" = 1'-0"

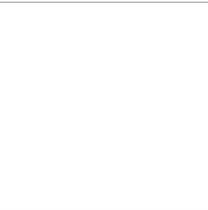


2 Section 7
3/4" = 1'-0"

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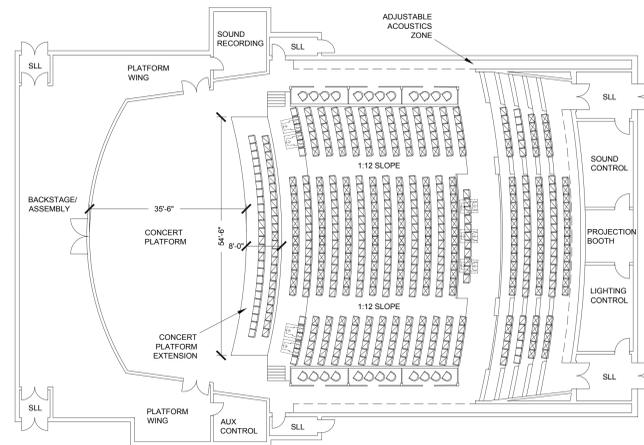
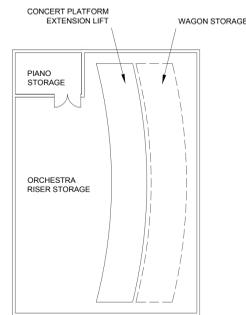
project#:
date: 5/2/2016

revisions:

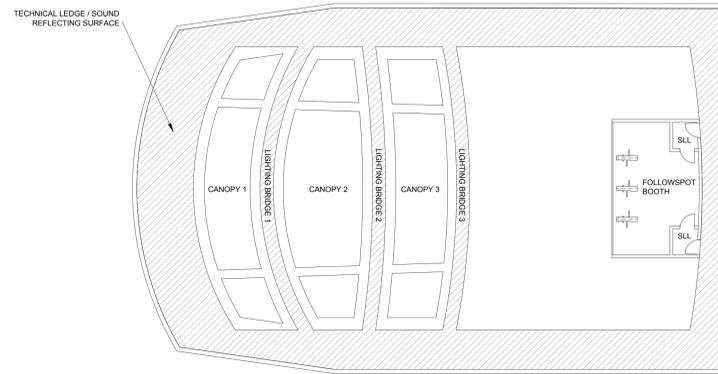
title:
**Wall
Sections**

sheet:
AE310

SCHEMATIC DESIGN



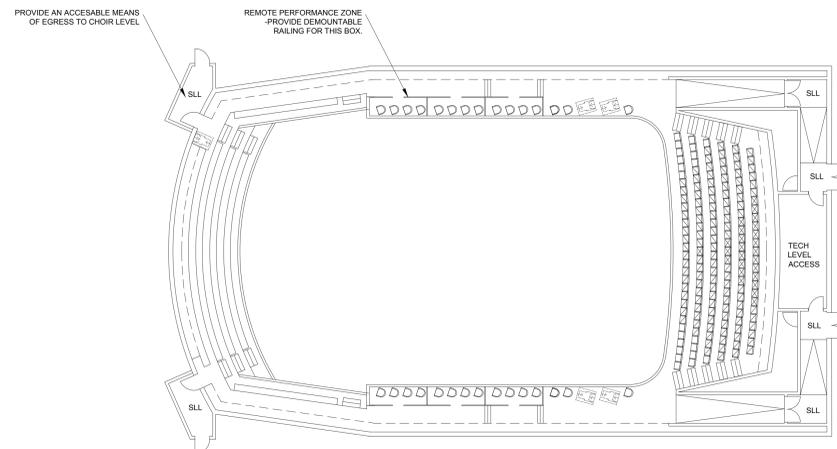
SEAT COUNT:
 Platform Extension Lift: 51
 Orchestra Seating: 361
 Parterre: 116
 Total: 552



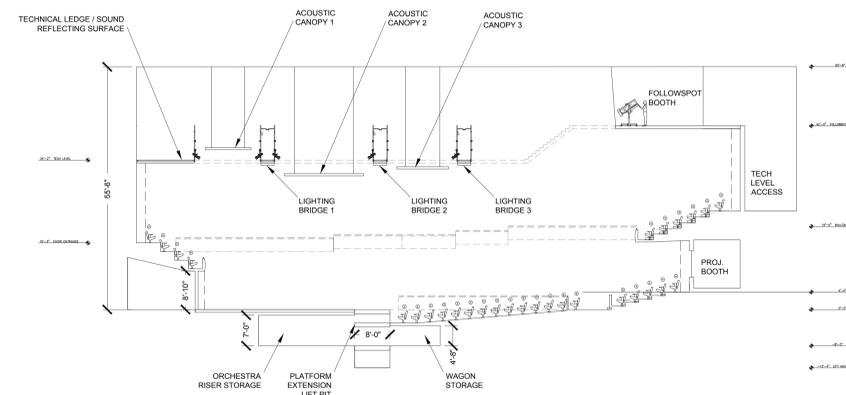
ORCHESTRA PIT LEVEL

MAIN LEVEL

TECH GALLERY LEVEL



SEAT COUNT:
 Balcony Seating: 165
 Side Boxes: 35
 Choir Seating: 150
 Total: 349



BALCONY LEVEL

CONCERT HALL SECTION

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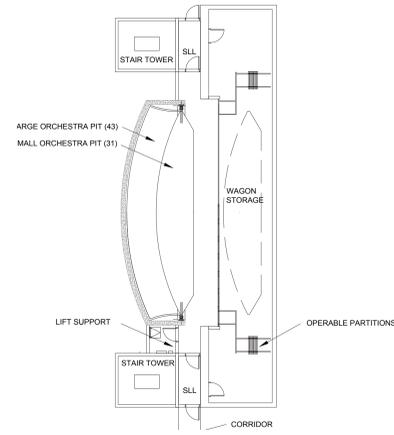
project#:
date: 4/21/2016
revisions:

title:
Enlarged Plans-
Concert Hall

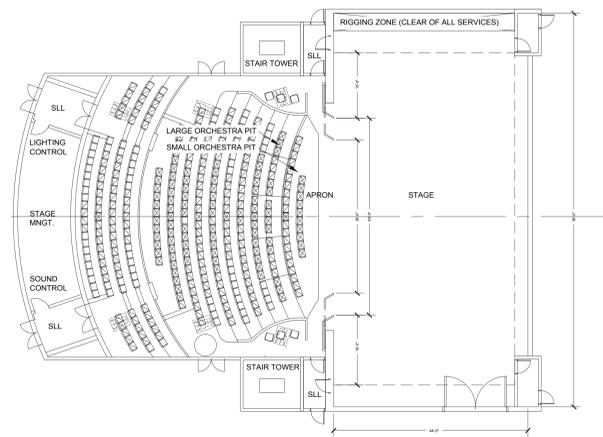
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AE401

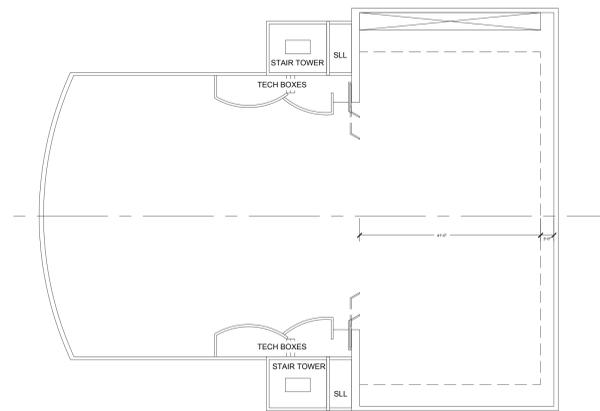
SD PACKAGE FOR COST ESTIMATE



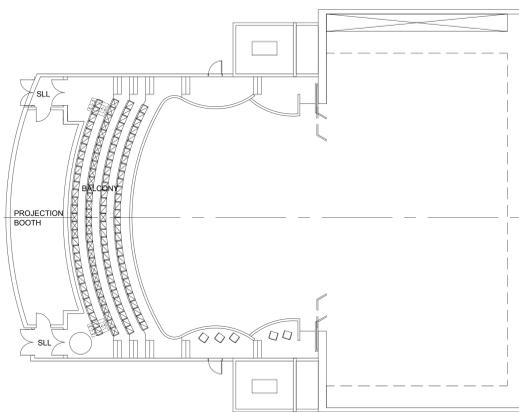
ORCHESTRA PIT LEVEL



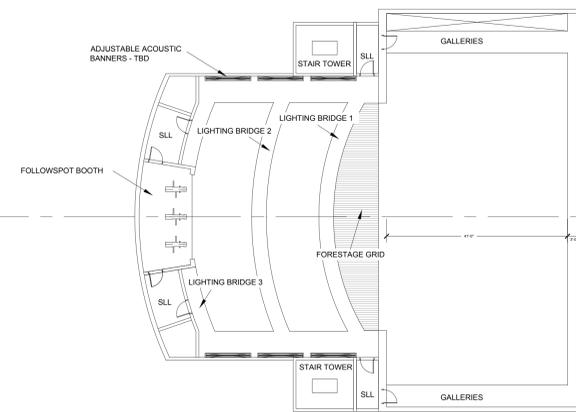
MAIN LEVEL



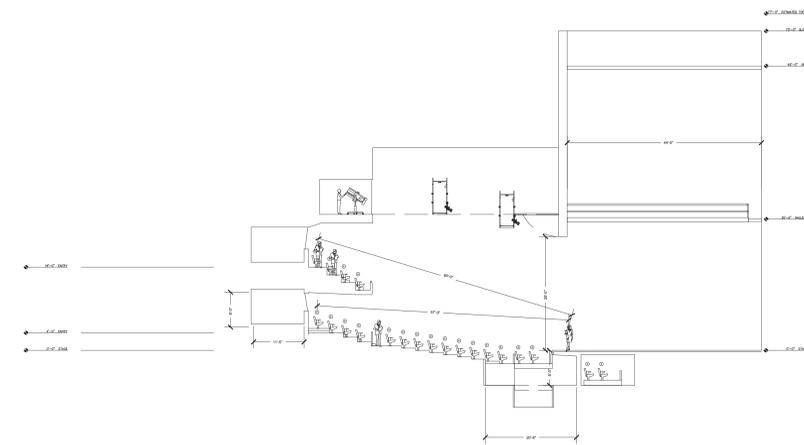
TECH LEVEL



BALCONY LEVEL



GALLERY LEVEL



PROSCENIUM THEATRE SECTION

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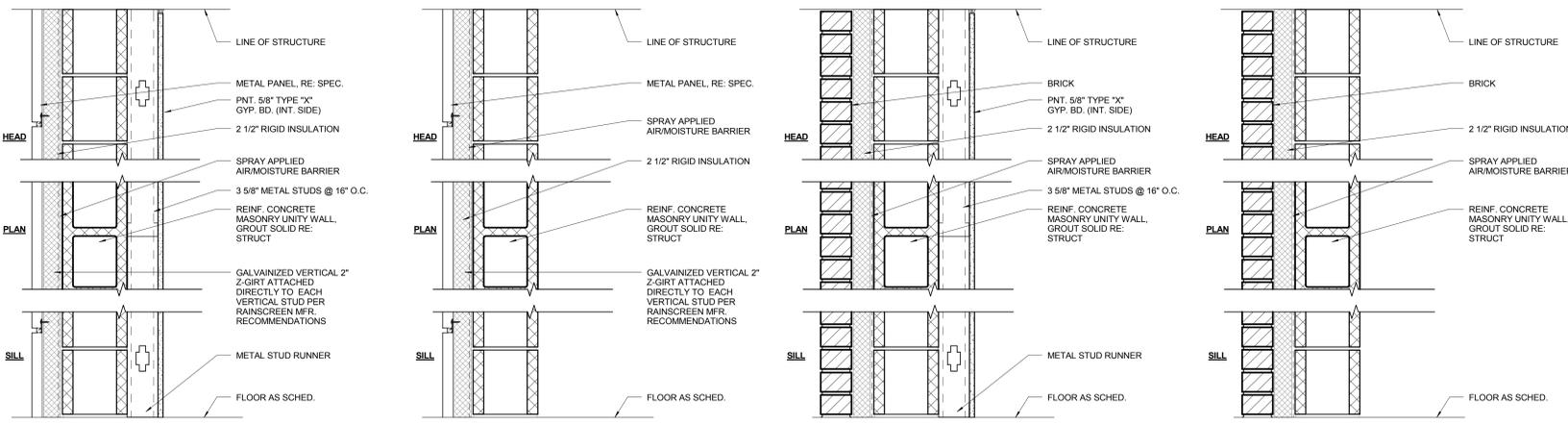
project:
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 ARTS COMPLEX

project#:
 4/21/2016
revisions:

title:
**Enlarged Plans-
 Proscenium
 Theatre**

sheet:
AE402

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EM1 8" REINFORCED CONCRETE MASONRY UNIT WALL W/ METAL PANEL AT EXTERIOR AND FURRING AT INTERIOR

EM2 8" REINFORCED CONCRETE MASONRY UNIT WALL W/ METAL PANEL AT EXTERIOR

EM3 8" REINFORCED CONCRETE MASONRY UNIT WALL W/ METAL PANEL AT EXTERIOR AND FURRING AT INTERIOR

EM4 8" REINFORCED CONCRETE MASONRY UNIT WALL W/ METAL PANEL AT EXTERIOR AND FURRING AT INTERIOR

EXTERIOR CMU WALL W/ MTL. PANEL -

EXTERIOR CMU WALL W/ MTL. PANEL -

EXTERIOR CMU WALL W/ BRICK VENEER

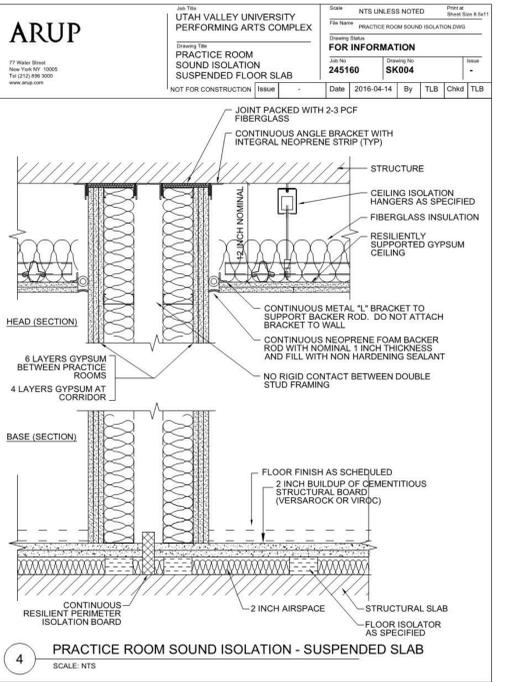
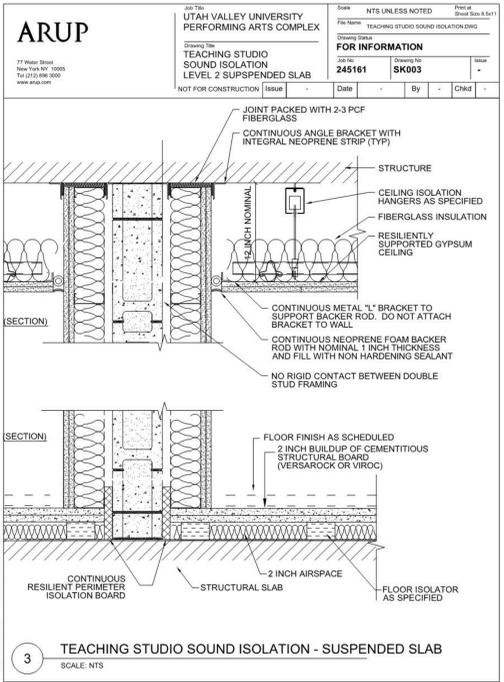
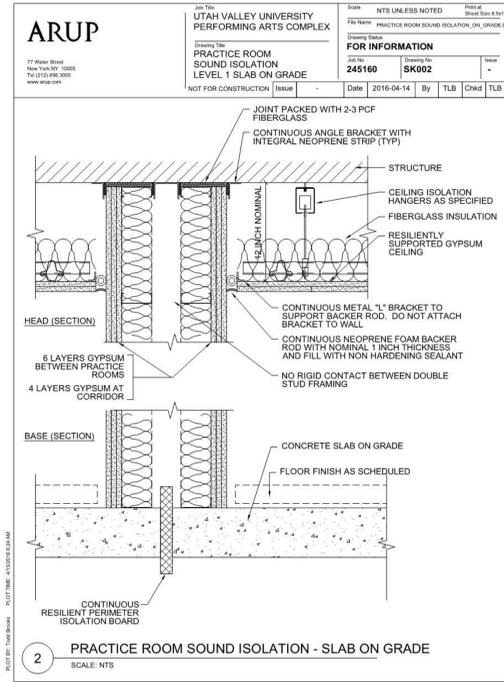
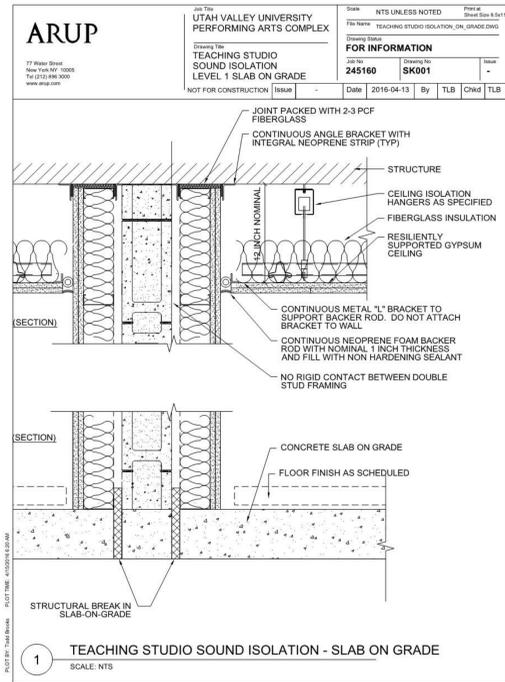
EXTERIOR CMU WALL W/ BRICK VENEER

WALL TYPES GENERAL NOTES -

- REFER TO FLOOR PLAN "AE" SERIES FOR LOCATION OF WALL TYPES. ALL WALLS ARE TYPE "P2" UNLESS NOTED OTHERWISE.
- REFER TO SCHEDULES & DETAILS FOR FINISHES. WALL TYPES REVER TO BASE WALL ONLY.
- "LINE OF STRUCTURE" AS SHOWN AT THE HEAD CONDITIONS OF EACH WALL TYPE IS DIAGRAMMATIC ONLY AND DOES NOT INDICATE THE EXACT CONSTRUCTION CONDITION. RATED WALLS ARE TO TERMINATE AT STRUCTURAL MEMBERS WITH A FIRE RESISTANT RATING. WHERE REQ'D APPROPRIATE FRAMING AND GYP BOARD IS TO BE INSTALLED AND OFFSET AROUND STRUCTURAL MEMBERS OR OTHER OBSTRUCTIONS SUCH AS PIPING OR DUCTWORK, TO MAINTAIN THE FIRE RESISTANCE RATING. NON-RATED WALLS THAT CONTINUE TO STRUCTURE ARE TO TERMINATE AT PROPER LOCATIONS TO MAINTAIN THE INTENT OF THE CONTINUOUS PLANE OF ONE LAYER OF GYP BOARD AS A NOISE SMOKE OR OTHER TYPE OF BARRIER.
- ALL GYP BOARD SHALL BE 5/8", UNLESS NOTED OTHERWISE.
- ALL RATED WALLS SHALL BE CONSTRUCTED FIRST. SECONDARY WALLS TO ABUTT, BUT NOT PENETRATION RATED WALLS.
- APPROPRIATE SUBMITTAL INFORMATION MUST BE PROVIDED TO SUBSTANTIATE THAT THE MATERIALS AND ASSEMBLY USED BY THE CONTRACTOR HAVE BEEN TESTED BY A RECOGNIZED TESTING AGENCY TO MEET THE FIRE RESISTANCE RATING SCHEDULED ON THESE WALL TYPES.
- FIRESTOPPING TO BE PROVIDED AT PENETRATIONS THROUGH RATED WALLS AS SPECIFIED.
- ALL GYPSUM WALL BOARD MUST BE MOISTURE RESISTANT AT THE FOLLOWING LOCATIONS:
 - TOILET ROOMS
 - WET WALLS
 - SHOWERS
 - JANITOR'S CLOSETS
- SOUND ATTENUATION BLANKETS SHALL EXTEND THE FULL HEIGHT IF THE WALLS.
- SPACING OF THE METAL STUDS HAS NOT BEEN INDICATED ON THE WALL TYPES OR DETAILS. STUD SPACING IS TO BE DETERMINED BY THE HEIGHT OF THE PARTITION AS SHOWN IN THE TABLE BELOW. EACH STUD GOING TO STRUCTURE AND EXCEEDING ALLOWABLE HEIGHTS SHALL BE BRACED 45 DEGREES DIAGONALLY 12" ABOVE CEILING WITH EQUAL SIZE 20 GA. METAL STUDS. THIS TABLE IS TO BE USED FOR THE INTERIOR WALL TYPES ONLY AND DOES NOT APPLY TO EXTERIOR STUDS. USE 20 GA STUDS AT ALL HEAD AND JAMB LOCATIONS.
- REFER TO INTERIOR DETAILS FOR ADDITIONAL INFORMATION.
- UL DESIGN NUMBERS REFER TO FIRE RESISTANCE IN MOST CURRENT EDITION OF THE UL DIRECTORY.
- SUPPORT INSULATION WITH CHICKEN WIRE IN PARTITIONS WITHOUT GYP BOARD ON BOTH SIDES TO STRUCTURE.
- MAINTAIN 1/2" SPACE BETWEEN FLOOR SLAB AND BOTTOM OF GYP BOARD ON ALL WALLS.
- STOP STUD 1" BELOW METAL RUNNER (TOP TRACK) TO ALLOW FOR VERTICAL EXPANSION DO NOT ATTACH STUDS OR GYP BOARD TO TOP TRACK.

FACING ON SIDES OF STUDS	STUD SPACING ON CENTER	STUD DEPTH MAX. HT.	STUD DEPTH MAX. HT.	STUD DEPTH MAX. HT.
1 LAYER 5/8" GYP BD - 1 SIDE ONLY	16 24	11'-0" 9'-9"	14'-6" 12'-9"	14'-6" 12'-9"
1 LAYER 5/8" GYP BD - EACH SIDE	16 24	12'-0" 10'-9"	16'-0" 13'-6"	16'-0" 13'-6"
2 LAYER 5/8" GYP BD - EACH SIDE	16 24	16'-9" 13'-6"	20'-0" 15'-0"	- -

- HEIGHT IS DISTANCE FROM THE FLOOR TO THE STRUCTURE, NOT FLOOR TO CEILING
- BRACING AT MIDPOINT REQUIRED FOR ALL WALLS OVER 12'-0" HIGH
- ALL WALLS GO TO DECK



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project:
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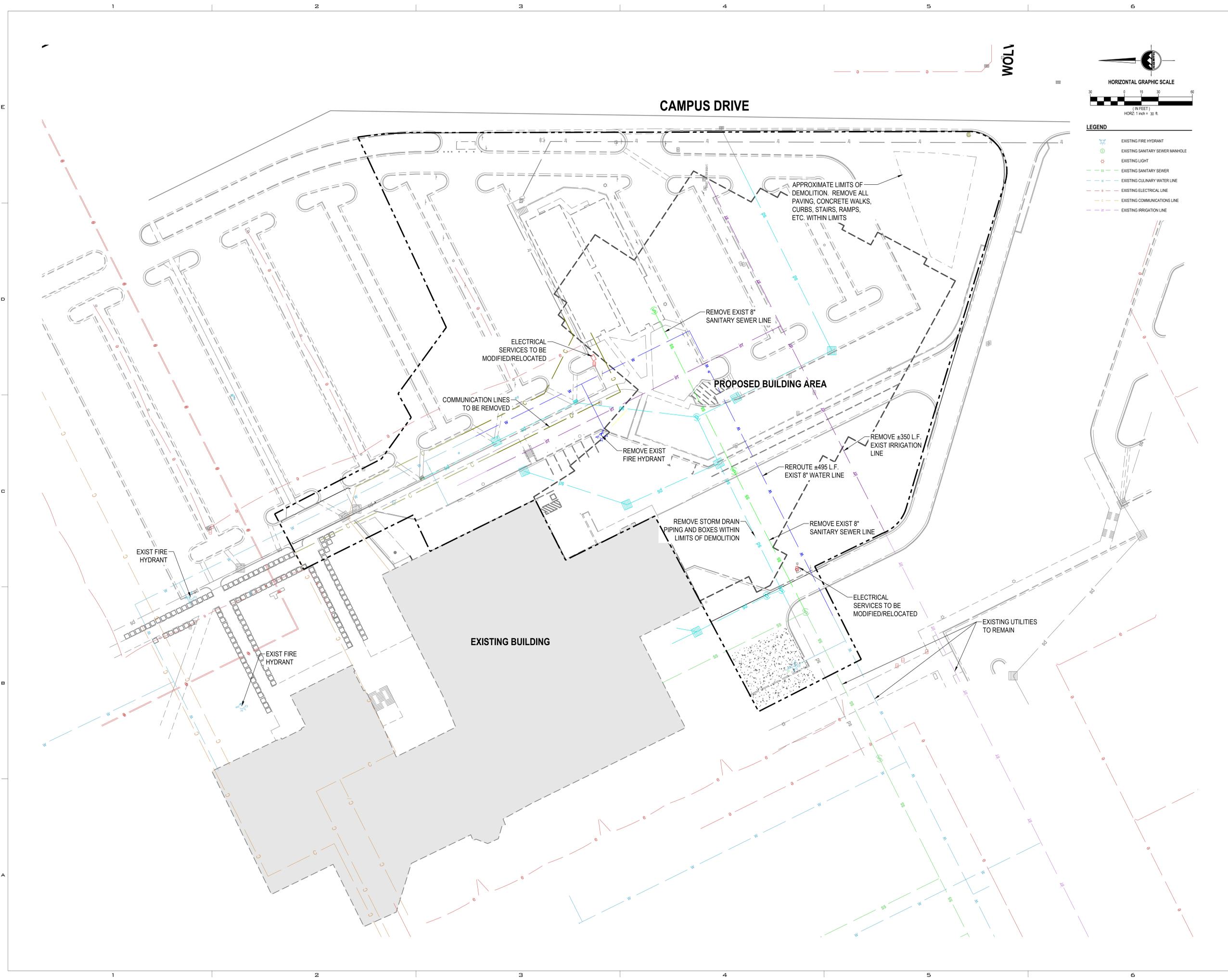
project#:
date: 5/2/2016

revisions:

title:
Wall Types

sheet:
AE501

SCHEMATIC DESIGN



- LEGEND**
- EXISTING FIRE HYDRANT
 - EXISTING SANITARY SEWER MANHOLE
 - EXISTING LIGHT
 - EXISTING SANITARY SEWER
 - EXISTING CULINARY WATER LINE
 - EXISTING ELECTRICAL LINE
 - EXISTING COMMUNICATIONS LINE
 - EXISTING IRRIGATION LINE

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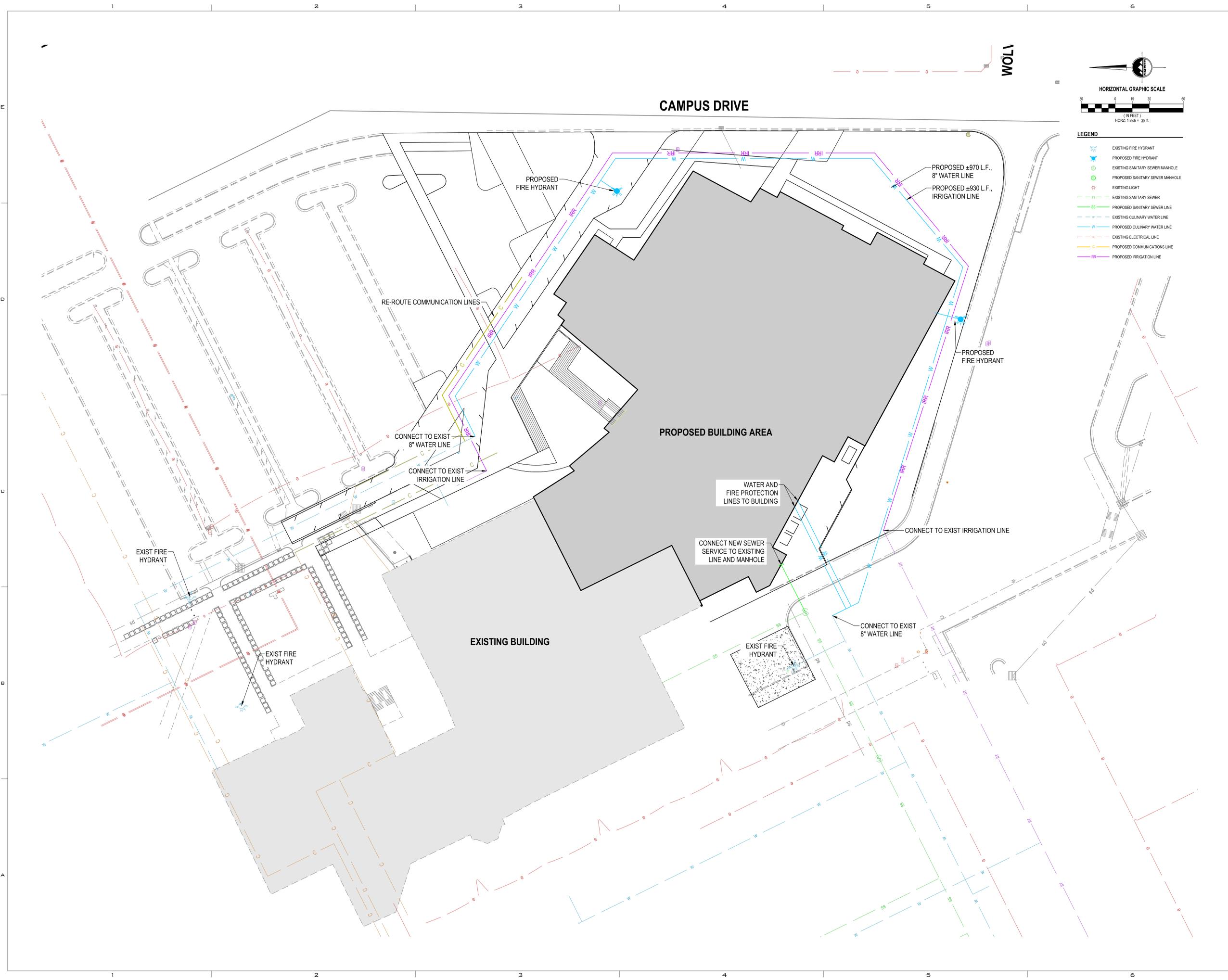
project:
 UVU PERFORMING
 ARTS COMPLEX

project#: 6879
date: 4/29/2016
revisions:

title:
**DEMOLITION
 PLAN**

sheet:
C-1

SD PACKAGE FOR COST ESTIMATE



- LEGEND**
- EXISTING FIRE HYDRANT
 - PROPOSED FIRE HYDRANT
 - EXISTING SANITARY SEWER MANHOLE
 - PROPOSED SANITARY SEWER MANHOLE
 - EXISTING LIGHT
 - EXISTING SANITARY SEWER
 - PROPOSED SANITARY SEWER LINE
 - EXISTING CULINARY WATER LINE
 - PROPOSED CULINARY WATER LINE
 - EXISTING ELECTRICAL LINE
 - PROPOSED COMMUNICATIONS LINE
 - PROPOSED IRRIGATION LINE

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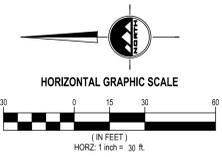
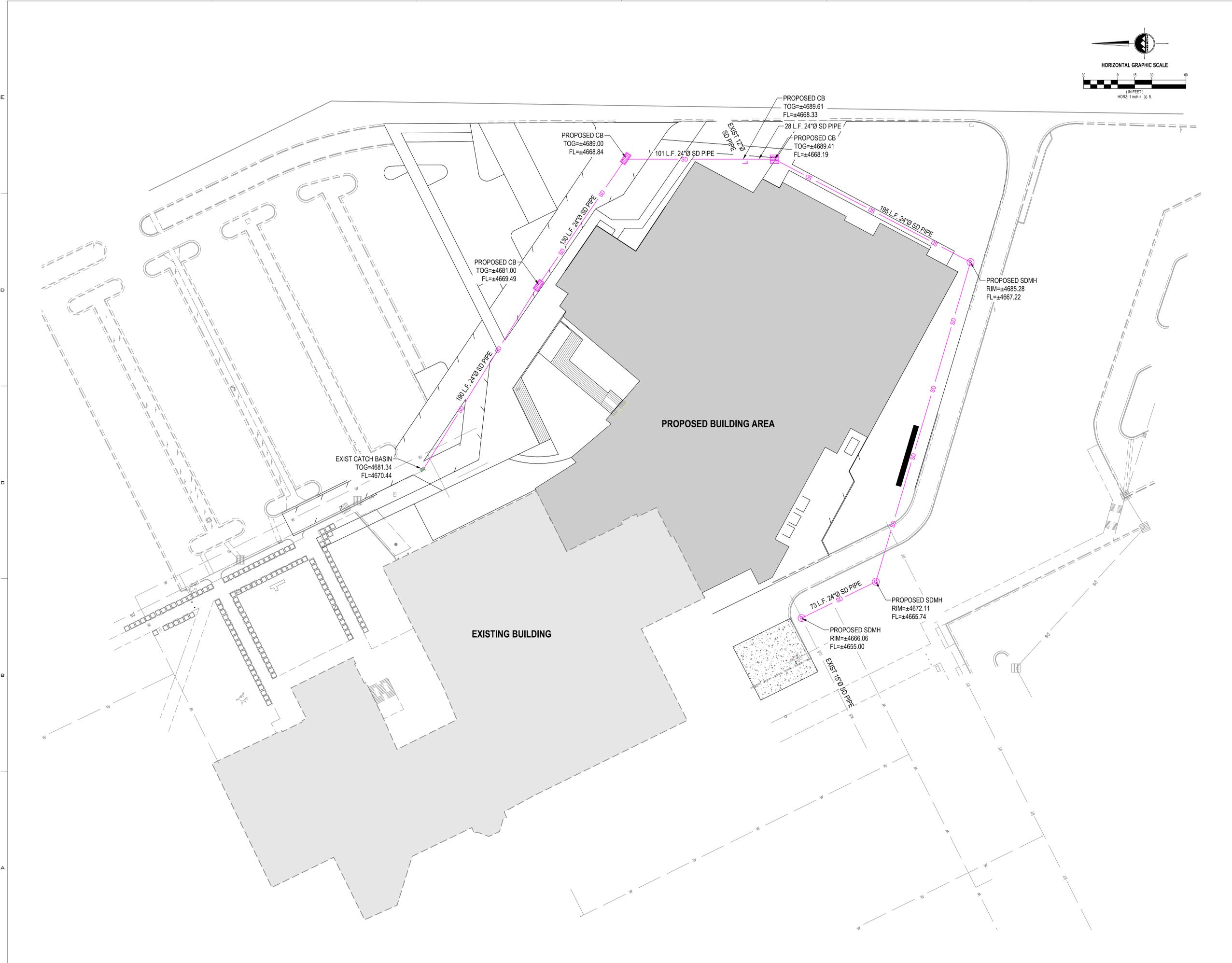
project:
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 ARTS COMPLEX

project: 6879
date: 4/29/2016
revisions:

title:
UTILITY PLAN

sheet:
C-2

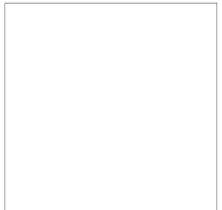
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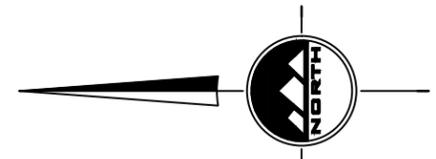
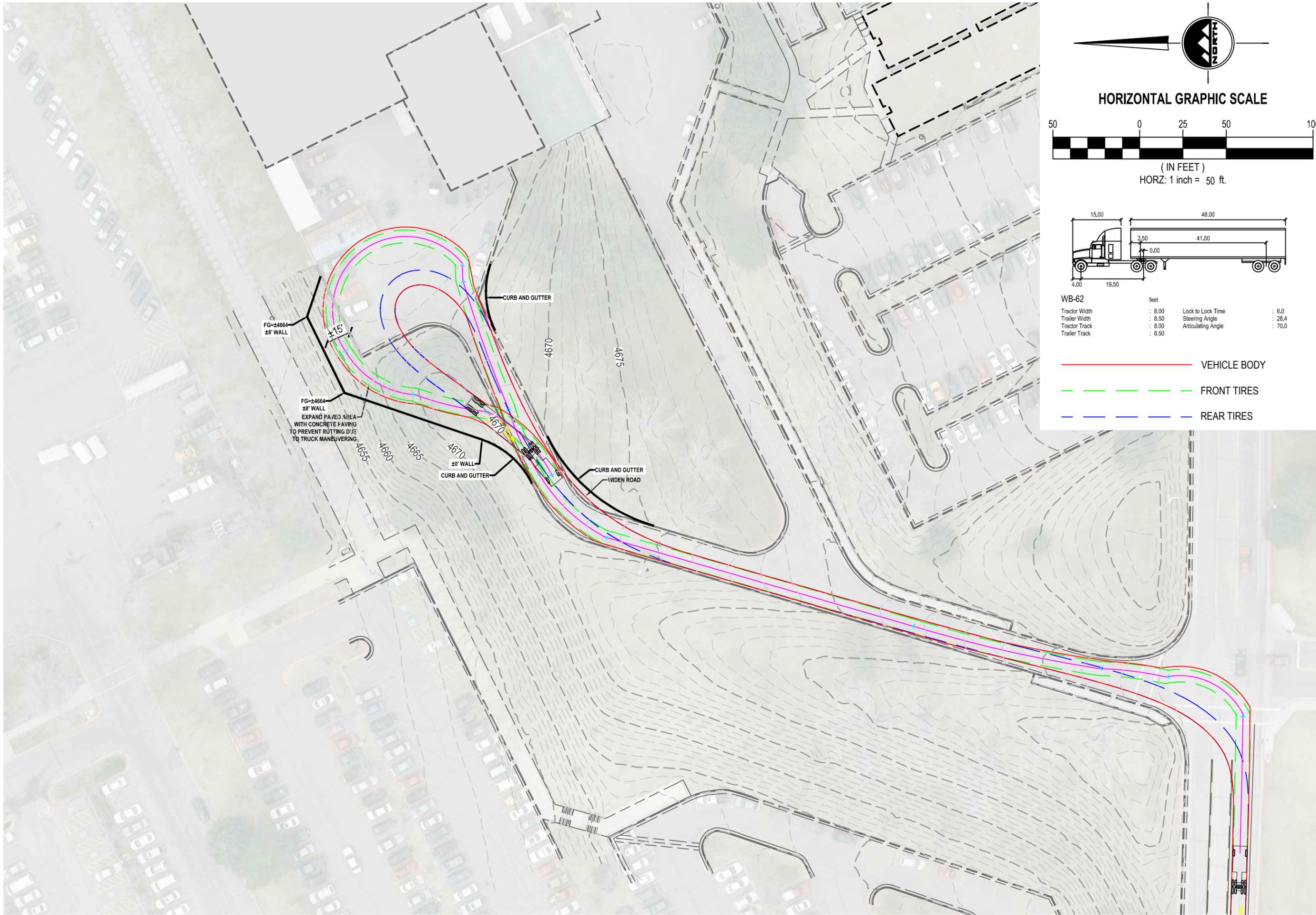
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revisions:

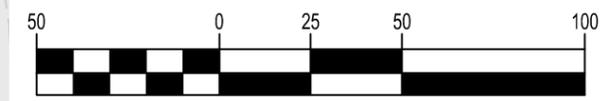
title:
DRAINAGE PLAN

sheet:
C-3

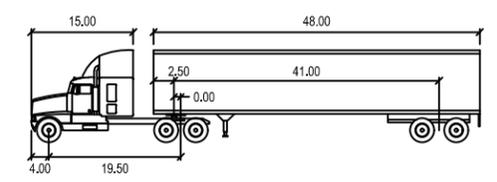
SD PACKAGE FOR COST ESTIMATE



HORIZONTAL GRAPHIC SCALE



(IN FEET)
HORZ: 1 inch = 50 ft.



WB-62		feet	
Tractor Width	: 8.00	Lock to Lock Time	: 6.0
Trailer Width	: 8.50	Steering Angle	: 28.4
Tractor Track	: 8.00	Articulating Angle	: 70.0
Trailer Track	: 8.50		

- VEHICLE BODY
- - - FRONT TIRES
- - - REAR TIRES

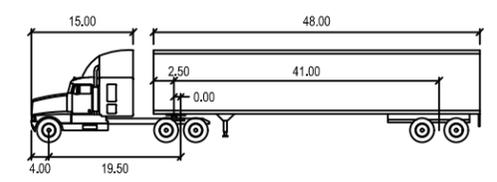
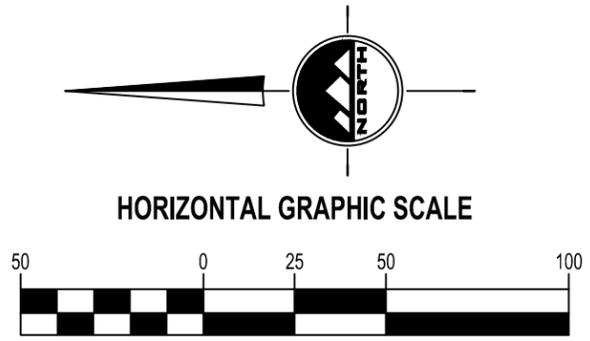
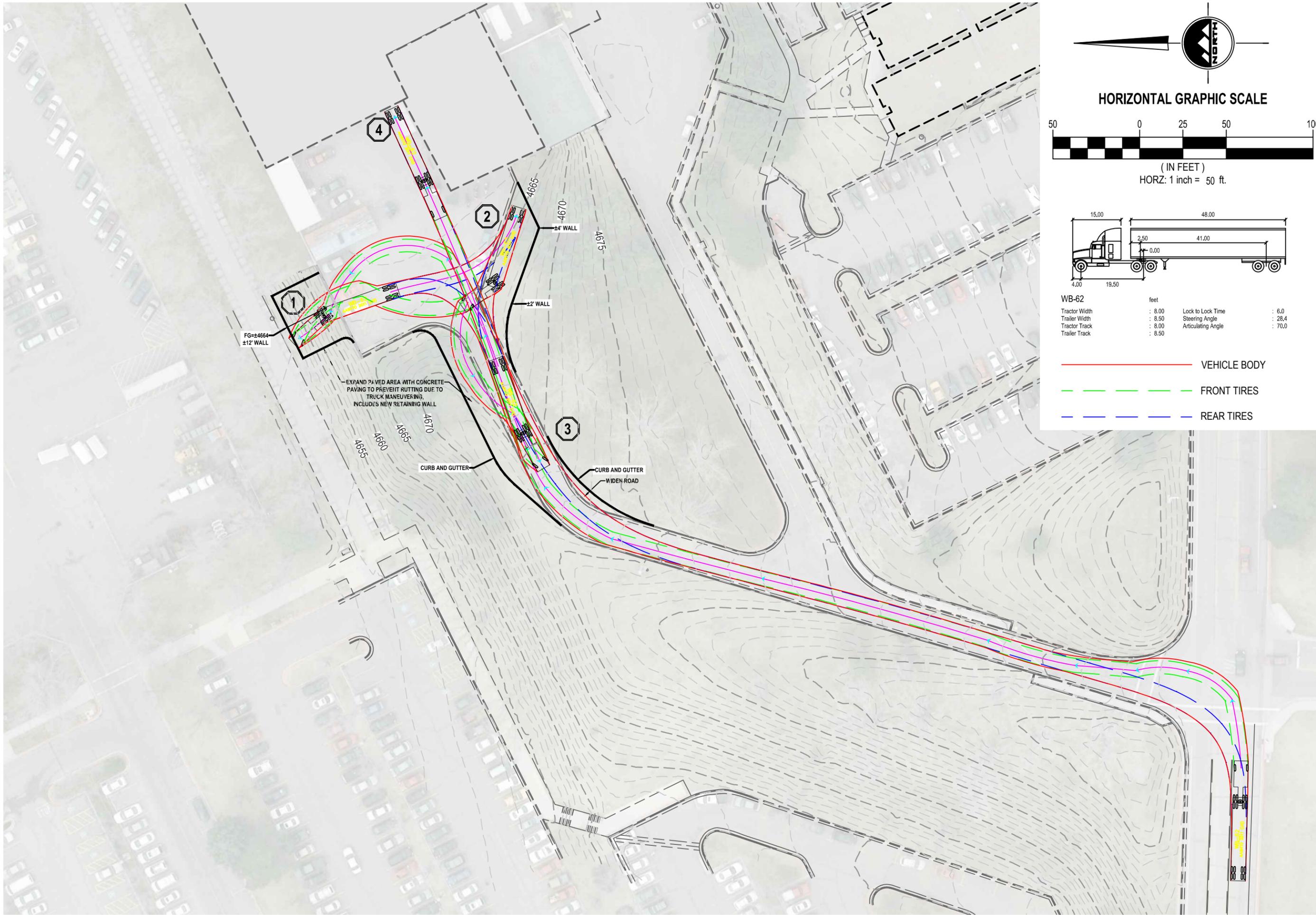
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FOR:
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 CONTACT:
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ART CENTER
UTAH VALLEY UNIVERSITY
 OREM, UTAH

AUTOTURN EXHIBIT

PROJECT #
6756
 DATE
1/11/16
 DRAWN BY
B. PAGE
 PROJECT MANAGER
K. MORGAN



WB-62	feet		
Tractor Width	: 8.00	Lock to Lock Time	: 6.0
Trailer Width	: 8.50	Steering Angle	: 28.4
Tractor Track	: 8.00	Articulating Angle	: 70.0
Trailer Track	: 8.50		

- VEHICLE BODY
- - - FRONT TIRES
- - - REAR TIRES

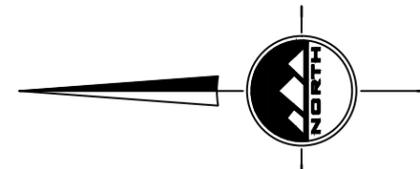
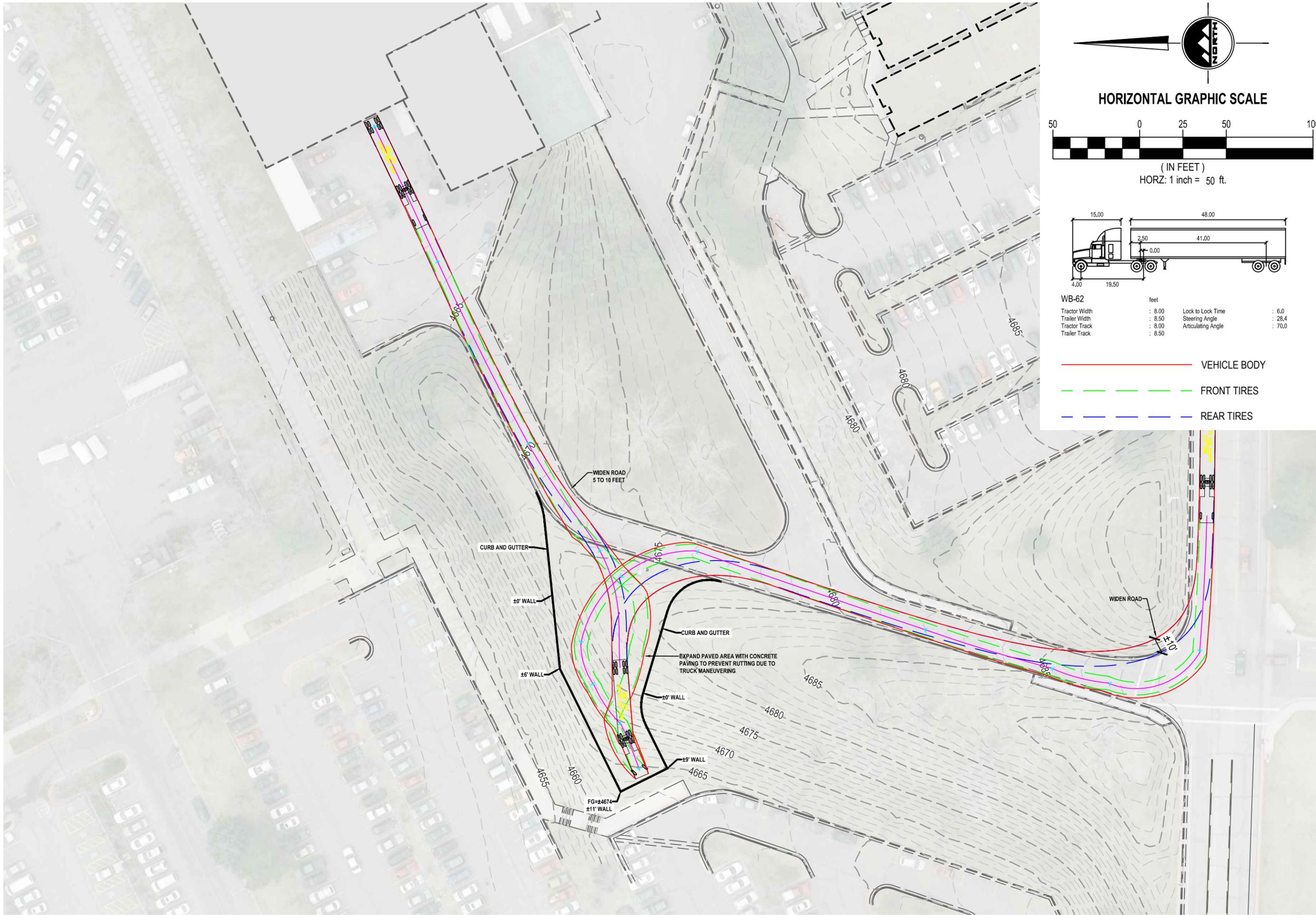
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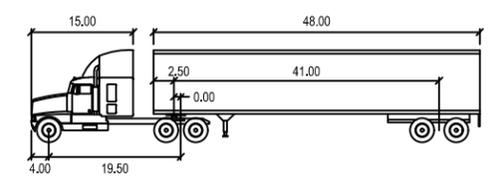
PROJECT #
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 DRAWN BY
B. PAGE
 PROJECT MANAGER
K. MORGAN



HORIZONTAL GRAPHIC SCALE



(IN FEET)
HORZ: 1 inch = 50 ft.



WB-62	feet		
Tractor Width	: 8.00	Lock to Lock Time	: 6.0
Trailer Width	: 8.50	Steering Angle	: 28.4
Tractor Track	: 8.00	Articulating Angle	: 70.0
Trailer Track	: 8.50		

- VEHICLE BODY
- FRONT TIRES
- REAR TIRES

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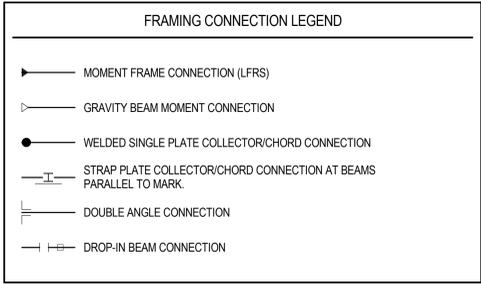
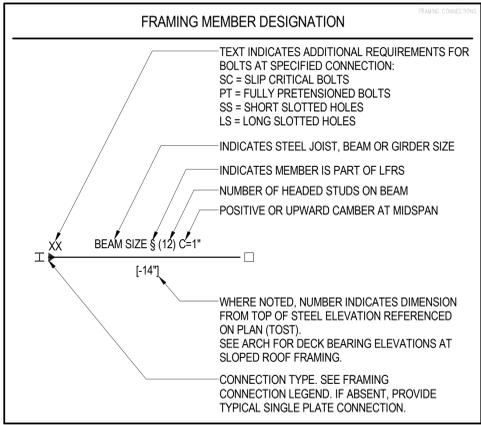
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 DRAWN BY
B. PAGE
 PROJECT MANAGER
K. MORGAN

PLAN LEGEND		
	FOOTING STEP	
	FOOTING - CONTINUOUS	
	FOOTING - THICKENED SLAB	
	FOOTING - SQUARE FOOTING - RECTANGULAR FOOTING - MAT FOOTING	
	CHANGE IN ELEVATION	
	SLAB BLOCK-OUT AT COLUMN	
	SLAB CONTROL/CONSTRUCTION JOINT	
	SPECIAL SLAB OR DECK AREA	
	SPECIAL SLAB OR DECK AREA	
	SPECIAL SLAB OR DECK AREA	
	RECESSED/DEPRESSED SLAB	
	OPENING	
	CONCRETE HOUSEKEEPING PAD	
	INDICATES ROOF DAVIT ARM BASE	
	INDICATES WINDOW WASHING TIE-BACK	
	CONCRETE BEAM	
	CONCRETE JOIST - ONE WAY PANS	
	CONCRETE JOIST - TWO WAY PANS	
	CONCRETE SUSPENDED SLAB	
	CONCRETE WALL	
	CONCRETE WALL - RECESSED (FDTN PLAN) CONCRETE LINTEL (FRAMING PLAN)	
	CONCRETE WALL - RECESSED AT DOOR	
	CONCRETE PIER IN CONCRETE WALL TOP OF PIER RECESSED BELOW SLAB.	
	CONCRETE COLUMN	
	CONCRETE JAMB COLUMN POURED MONOLITHIC WITH CONCRETE WALL	
	MASONRY WALL	
	MASONRY WALL - RECESSED (FDTN PLAN) MASONRY LINTEL (FRAMING PLAN)	
	MASONRY COLUMN IN MASONRY WALL	
	STEEL STUD WALL - STRUCTURAL	
	STEEL HEADER IN STEEL STUD WALL	
	BRICK WALL	
	BRICK WALL - RECESSED (FDTN PLAN) BRICK LINTEL (FRAMING PLAN)	
	BRICK COLUMN IN BRICK WALL	
	STEEL BRACED FRAME - ABOVE	
	STEEL BRACED FRAME	
	STEEL BEAM OR GIRDER	
	STEEL JOIST OR PURLIN	
	STEEL ANGLE BRACE / KICKER. SEE // FOR SLAB EDGE KICKER. SEE // FOR FRAME BRACE	
	CROSS BRIDGING	
	HORIZONTAL BRIDGING	
	STEEL COLUMN - TUBE (HSS)	
	STEEL COLUMN - WIDE FLANGE	
	STEEL COLUMN - PIPE (HSS)	
	CONCRETE ON METAL DECK	
	ROOF DECK	
	STEEL GRATE	
	EXISTING FOOTING - CONTINUOUS	
	EXISTING FOOTING - THICKENED SLAB	
	EXISTING FOOTING - SQUARE, RECTANGULAR, OR MAT	
	EXISTING CONCRETE SHEAR WALL, FOUNDATION WALL OR RETAINING WALL	
	EXISTING OPENING THROUGH CONCRETE WALL	
	EXISTING CONCRETE PIER IN CONCRETE WALL. PIER RECESSED BELOW SLAB.	
	EXISTING CONCRETE COLUMN	
	NEW OPENING THROUGH EXISTING CONCRETE WALL	
	EXISTING MASONRY WALL	
	EXISTING OPENING THROUGH MASONRY WALL	
	NEW OPENING THROUGH EXISTING MASONRY WALL	
	EXISTING STEEL COLUMN - TUBE	
	EXISTING STEEL COLUMN - WIDE FLANGE	
	EXISTING STEEL COLUMN - PIPE	
	EXISTING STEEL BRACED FRAME	
	EXISTING SLAB BLOCK-OUT AT COLUMN	
	EXISTING SLAB CONTROL/CONSTRUCTION JOINT	
	EXISTING STEEL BEAM OR GIRDER	
	EXISTING STEEL JOIST OR PURLIN	
	EXISTING CROSS BRIDGING	
	EXISTING HORIZONTAL BRIDGING	
	EXISTING TO BE REMOVED	
	EXISTING OPENING	



ABBREVIATIONS

@	AT
AB	ANCHOR BOLT (S)
ABV	ABOVE
ALT	ALTERNATE
APPROX	APPROXIMATE
ARCH	ARCHITECT(URAL)
BLDG	BUILDING
BLW	BELOW
BM	BEAM
BOT	BOTTOM
BRG	BEARING
BTWN	BETWEEN
CJ	CONSTRUCTION JOINT OR CONTROL JOINT
CJP	COMPLETE JOINT PENETRATION
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CONST	CONSTRUCTION
CONT	CONTINUOUS
CONTR	CONTRACTOR
CTR	CENTER
D.B.	DECK BEARING
db	DIAMETER OF REINFORCING BAR
DBA	DEFORMED BAR ANCHORS
DBL	DOUBLE
DET	DETAIL
DIA (OR Ø)	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DK	DECK
DN	DOWN
DWG	DRAWING
DWL	DOWEL
E.F.	EACH FACE
E.J.	EXPANSION JOINT (SEISMIC SEPARATION JOINT)
E.W.	EACH WAY
EA	EACH
EL	ELEVATION
ELEC	ELECTRICAL
ELEV	ELEVATOR
ENG	ENGINEER
EQ	EQUAL
EQUIP	EQUIPMENT
EXIST (E)	EXISTING
EXP	EXPANSION / EXPOSED
EXT	EXTERIOR
F.D.	FLOOR DRAIN
F.F.	FINISH FLOOR
F.V.	FIELD VERIFY
FDTN	FOUNDATION
FIN	FINISH
FL	FLOOR
FT	FOOT
FTG	FOOTING
GA	GAUGE
GALV	GALVANIZED
GLB	GLU-LAMINATED BEAM
GR	GRADE
GSN	GENERAL STRUCTURAL NOTES
HB	HORIZONTAL BRIDGING
HORIZ	HORIZONTAL
HSA	HEADED STUD ANCHORS
HSS	HOLLOW STRUCTURAL STEEL
HT	HEIGHT
I.F.	INSIDE FACE
IBC	INTERNATIONAL BUILDING CODE
ICBO	INTERNATIONAL CONFERENCE OF BUILDING OFFICIALS
ICC	INTERNATIONAL CODE COUNCIL
IN	INCH
INSUL	INSULATION
INT	INTERIOR
JST	JOIST
JT	JOINT
K	KIPS - 1,000 POUNDS
KLF	KIPS PER LINEAL FOOT
KSF	KIPS PER SQUARE FOOT
KSI	KIPS PER SQUARE INCH
LBS	POUNDS
Ld, Lt, Lsb, Lsbt, Ldc, Lsc	SEE CONCRETE REINFORCING BAR DEVELOPMENT AND LAP LENGTH SCHEDULE
LF	LINEAL FOOT
LFRS	LATERAL FORCE RESISTING SYSTEM (SFRS & WFRS)
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LSH	LONG SIDE HORIZONTAL
LSV	LONG SDIE VERTICAL
MAS	MASONRY
MAX	MAXIMUM
MCJ	MASONRY CONTROL JOINT
MECH	MECHANICAL
MFGR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
NIC	NOT IN CONTRACT
NORM	NORMAL
NTS	NOT TO SCALE
O.C.	ON CENTER
O.F.	OUTSIDE FACE
OPNG	OPENING
OPP	OPPOSITE
OWSJ	OPEN WEB STEEL JOIST
P.T.	POST-TENSIONED
PCF	POUNDS/CUBIC FOOT
PJP	PARTIAL JOINT PENETRATION
PL	PLATE
PLF	POUNDS/LINEAL FOOT
PNL	PANEL
PSF	POUNDS/SQ FOOT
PSI	POUNDS/SQ INCH
R.D.	ROOF DRAIN
REINF	REINFORCING

ABBREVIATIONS

REQD	REQUIRED
SFRS	SEISMIC FORCE RESISTING SYSTEM
SHT	SHEET
SI	SPECIAL INSPECTION (SP. INSP.)
SIM	SIMILAR
SOG	SLAB ON GRADE
SQ	SQUARE
STAG	STAGGERED
STD	STANDARD
STIFF	STIFFENER
STL	STEEL
STRUCT	STRUCTURAL
T & B	TOP AND BOTTOM
T.O.	TOP OF
TEMP	TEMPERATURE
THDS	THREADS
TOC	TOP OF CONCRETE
TOCP	TOP OF CONCRETE PIER
TOF	TOP OF FOOTING
TOS	TOP OF SLAB
TOST	TOP OF STEEL
TOW	TOP OF WALL
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VERT	VERTICAL
W.P.	WORK POINT
W/	WITH
WF	WIDE FLANGE
WFRS	WIND FORCE RESISTING SYSTEM
WT	WEIGHT
WWF	WELDED WIRE FABRIC
YD	YARD

PLAN MARKS

BF-#	BRACED FRAME
CB-#	CONCRETE BEAM
CC-#	CONCRETE COLUMN
CCSS-#	CANTILEVERED CONCRETE SUSPENDED SLAB
CDP-#	CONCRETE DRILLED PIER
CFW-#	CONCRETE FOUNDATION WALL
CGB-#	CONCRETE GRADE BEAM
CJ-#	CONCRETE JOIST
CJC-#	CONCRETE JAMB COLUMN
CL-#	CONCRETE LINTEL
CP-#	CONCRETE PIER
CRW-#	CONCRETE RETAINING WALL
CSG-#	CONCRETE SLAB ON GRADE
CSH-#	CONCRETE SHEAR HEAD
CSS-#	CONCRETE SUSPENDED SLAB
CSW-#	CONCRETE SHEAR WALL
CW-#	CONCRETE WALL
FCF	CONTINUOUS FOOTING
FM#	MAT FOOTING
FR#	RECTANGULAR FOOTING
FS#	SQUARE FOOTING
FTS#	THICKENED SLAB FOOTING
HD-#	HOLD DOWN ANCHOR
MC-#	MASONRY COLUMN
MF-#	MOMENT FRAME
ML-#	MASONRY LINTEL
MP-#	MASONRY PIER
MW-#	MASONRY WALL
PTB-#	POST-TENSIONED CONCRETE BEAM
SBP-#	STEEL BASE PLATE
SC-#	STEEL COLUMN
SCP-#	STEEL CAP PLATE
SD-#	STEEL DECK
SDA-#	STEEL DECK ATTACHMENT
SG-#	STEEL GIRDER
SJ-#	STEEL JOIST
SND-#	SNOW DRIFT
WB-#	WOOD BEAM
WBW-#	WOOD BEARING WALL
WC-#	WOOD COLUMN
WD-#	WOOD DIAPHRAGM
WJ-#	WOOD JOIST
WSW-#	WOOD SHEAR WALL

STRUCTURAL DRAWING LIST

SHT NO.	SHT NAME
SE001	GENERAL STRUCTURAL NOTES
SE002	GENERAL STRUCTURAL NOTES
SE003	LEGENDS & ABBREVIATIONS
SB101	OVERALL FOOTING & FDTN PLAN
SF101	OVERALL FLOOR FRAMING PLAN
SF102	OVERALL ROOF FRAMING PLAN

METHOD STUDIO INC.
925 South West Temple
Salt Lake City, Utah 84101
Phone: (801) 532-4422

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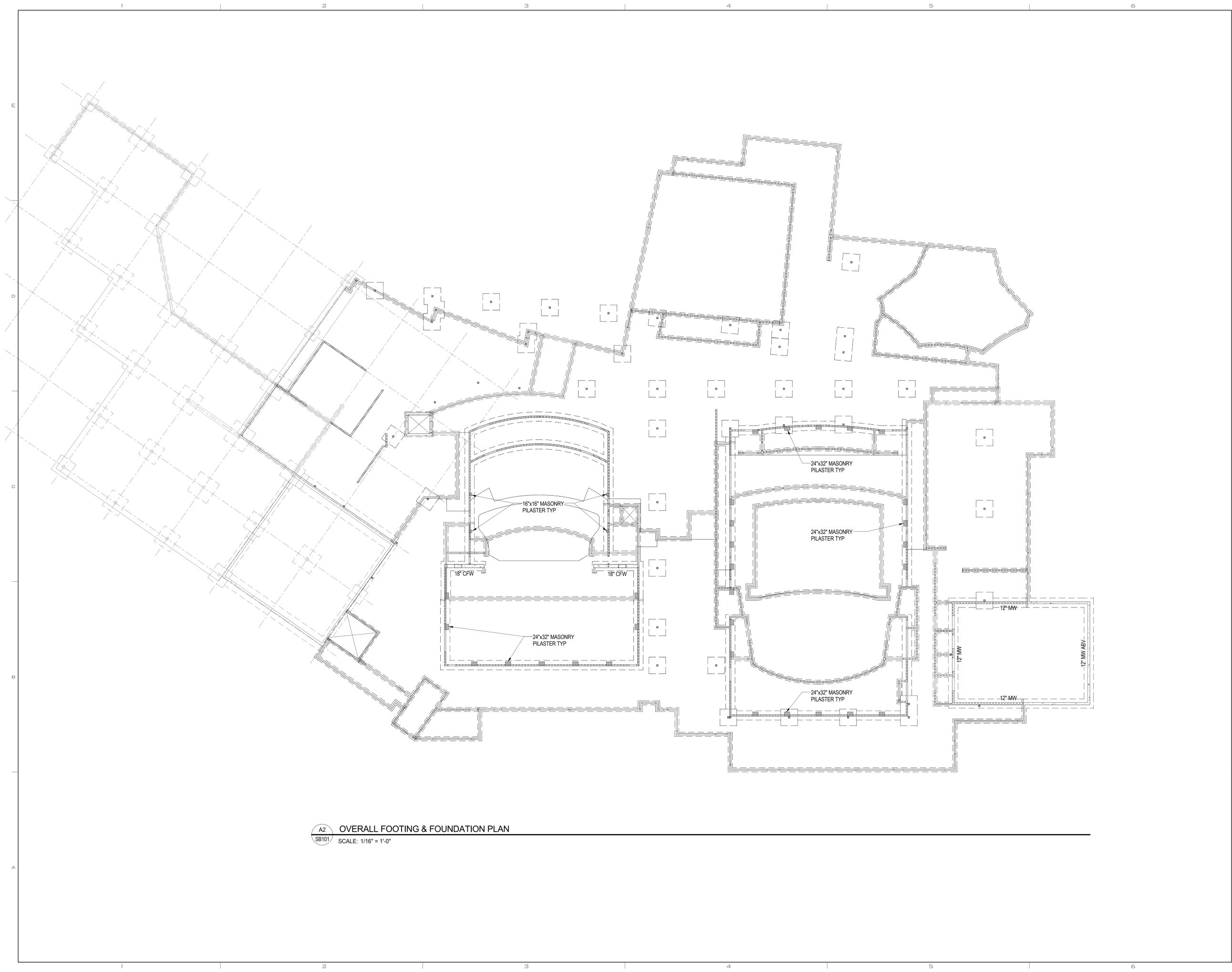
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date: 4/21/2016

revisions:

title:
**LEGENDS &
ABBREVIATIONS**

sheet:
SE003

SCHEMATIC DESIGN

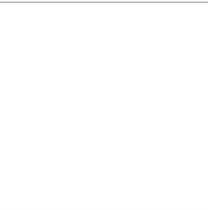


A2 OVERALL FOOTING & FOUNDATION PLAN
 SB101 SCALE: 1/16" = 1'-0"

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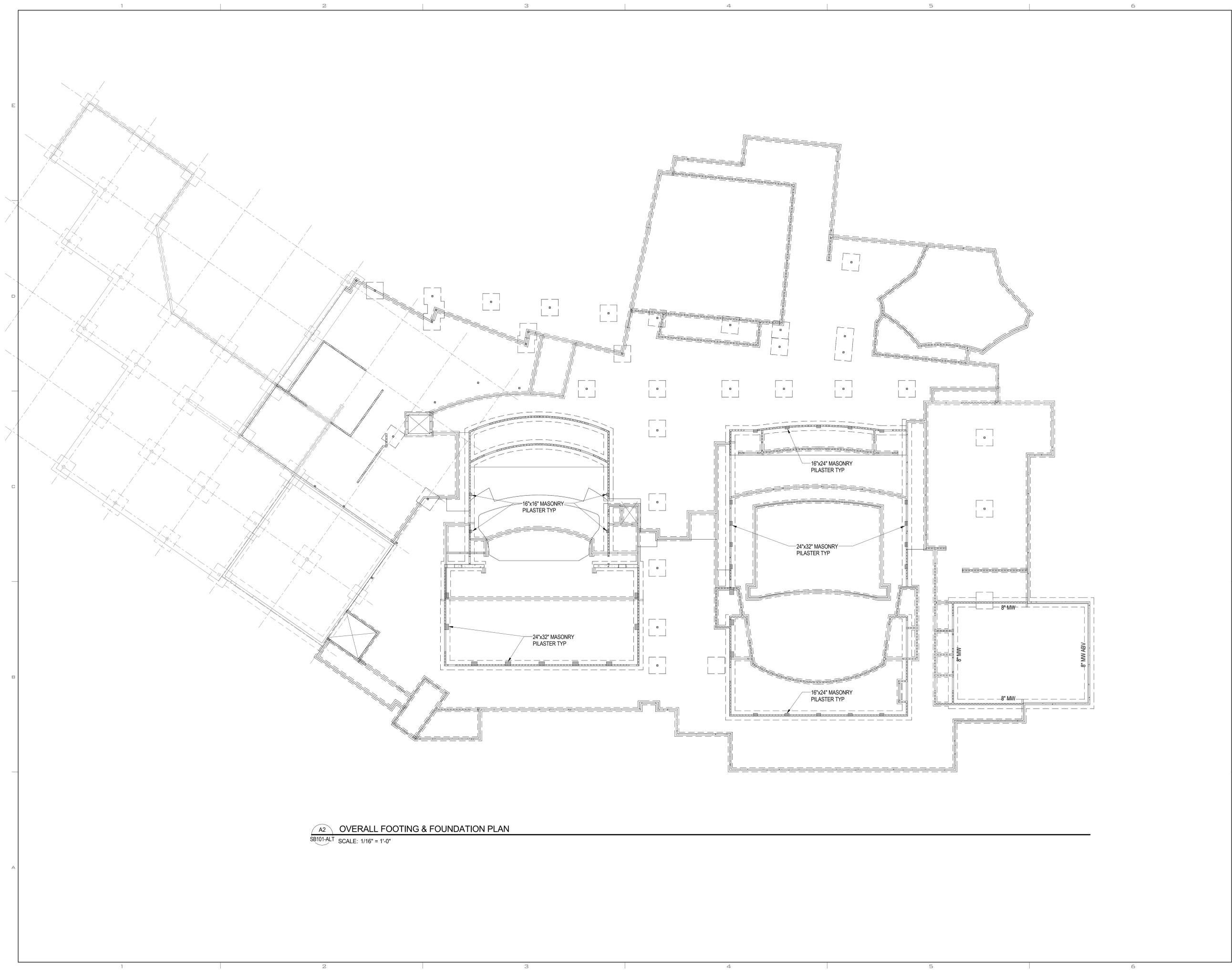
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**OVERALL
 FOOTING &
 FDTN PLAN**

sheet:
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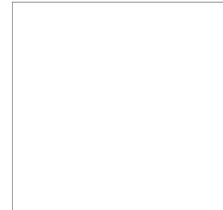


A2 OVERALL FOOTING & FOUNDATION PLAN
 SB101-ALT SCALE: 1/16" = 1'-0"

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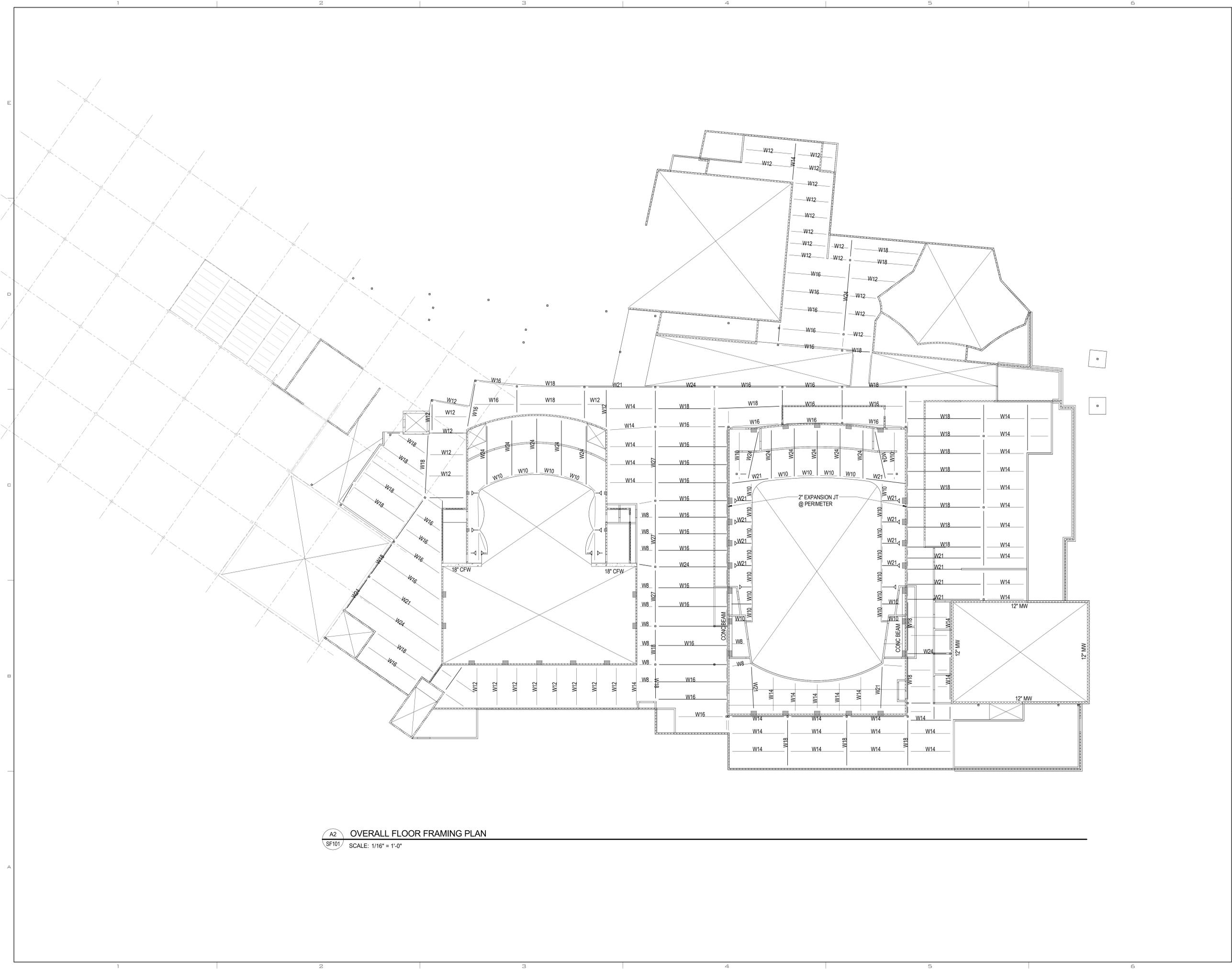
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date: 4/21/2016

revisions:

title:
**OVERALL
 FOOTING &
 FDTN PLAN ALT**

sheet:
SB101-ALT

SCHEMATIC DESIGN



A2 OVERALL FLOOR FRAMING PLAN
 SF101 SCALE: 1/16" = 1'-0"

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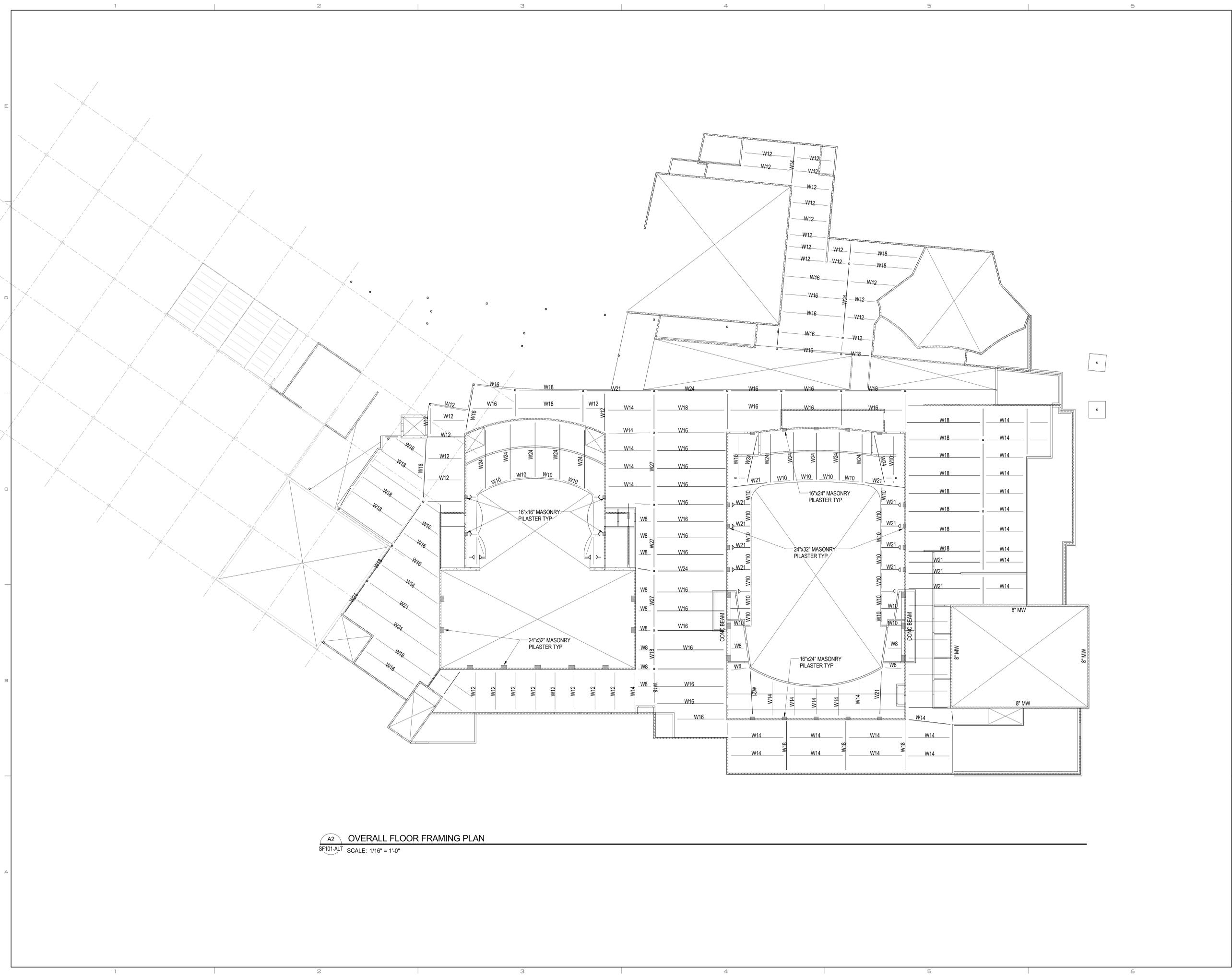
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date: 4/21/2016

revisions:

title:
**OVERALL FLOOR
 FRAMING PLAN**

sheet:
SF101

SCHEMATIC DESIGN



A2 OVERALL FLOOR FRAMING PLAN
 SF101-ALT SCALE: 1/16" = 1'-0"

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date: 4/21/2016

revisions:

title:
**OVERALL FLOOR
 FRAMING PLAN
 ALTERNATE**

sheet:
SF101-ALT

SCHEMATIC DESIGN

SYMBOLS LEGEND	
SYMBOL	DESCRIPTION
REFERENCE AND LINE SYMBOLS	
	DETAIL INDICATOR. AS INDICATES DETAIL NUMBER, E-501 INDICATES DRAWING SHEET WHERE DETAIL IS SHOWN.
	ELEVATION OR SECTION INDICATOR, EXTERIOR. AS INDICATES ELEVATION OR SECTION NUMBER, E-201 INDICATES DRAWING SHEET WHERE ELEVATION OR SECTION IS SHOWN.
	ELEVATION OR SECTION INDICATOR, INTERIOR. AS INDICATES ELEVATION OR SECTION NUMBER, E-201 INDICATES DRAWING SHEET WHERE ELEVATION OR SECTION IS SHOWN.
	ROOM IDENTIFIER WITH ROOM NAME AND NUMBER.
	KEYNOTE INDICATOR.
	REVISION INDICATOR.
	EQUIPMENT INDICATOR.
	MECHANICAL EQUIPMENT INDICATOR. "X-X" INDICATES EQUIPMENT MARK SHOWN ON EQUIPMENT SCHEDULE. "XMPD" IDENTIFIES PANEL EQUIPMENT IS CIRCUITED TO. REFER TO EQUIPMENT SCHEDULE FOR ADDITIONAL INFORMATION.
	BREAK, STRAIGHT: TO BREAK PARTS OF DRAWING
	BREAK, ROUND
	MATCH LINE INDICATOR: CENTER, EXTRA WIDE LINE.
	NEW LINE: MEDIUM LINE.
	EXISTING TO REMAIN LINE: THIN LINE.
	DEMOLITION LINE: DASHED, MEDIUM LINE.
WIRING METHODS	
	WIRING.
	WIRING TURNED UP OR TOWARDS OBSERVER.
	WIRING TURNED DOWN OR AWAY FROM OBSERVER.
	BRANCH CIRCUIT HOME RUN TO PANELBOARD; NUMBER OF ARROWS INDICATES NUMBER OF CIRCUITS. LETTER AND NUMBER NOTATIONS IDENTIFY PANEL AND CIRCUIT NUMBERS. USE #12 CONDUCTORS, EXCEPT #10 CONDUCTORS SHALL BE INSTALLED IF DISTANCES EXCEED THOSE SPECIFIED IN THE ELECTRICAL SPECIFICATIONS.
	BRANCH CIRCUIT HOME RUN TO PANELBOARD; NUMBER OF ARROWS INDICATES NUMBER OF CIRCUITS. LETTER AND NUMBER NOTATIONS IDENTIFY PANEL AND CIRCUIT NUMBERS. NUMBER IN BOX REFERS TO THE CONDUCTOR AND CONDUIT SCHEDULE.
	FLEXIBLE WIRING.
	WIRING AND/OR RACEWAY: THIN LINE. WHERE "X" = : CATV = CABLE TELEVISION P = POWER CCTV = CLOSED CIRCUIT TELEVISION RC = RIGID CONDUIT FA = FIRE ALARM S = SOUND T = TELEPHONE I = INTERCOM TV = TELEVISION
	OTHERS AS NOTED IN OTHER SCHEDULES. RACEWAYS AND WIRING SHALL BE SIZED AS SHOWN AND/OR SPECIFIED.
	LOW VOLTAGE WIRING: DIVIDE, MEDIUM LINE.
	CONDUIT STUB. DIMENSION RECORD DRAWINGS AND MARK.
	CONDUCTOR & CONDUIT ("CC") SCHEDULE INDICATOR. REFER TO ONE-LINE DIAGRAM.
	ADA ACCESS PUSH PLATE
	JUNCTION BOX.
	JUNCTION BOX, SYSTEMS FURNITURE COMMUNICATION CONNECTION.
	JUNCTION BOX, SECURITY SYSTEM. PROVIDE CONDUIT AND ROUGH-IN PER SECURITY DRAWINGS.
	PULL BOX.
	CABLE TRAY ABOVE ACCESSIBLE CEILING.
	WIREWAY.
	EARTH GROUND (ONE-LINE DIAGRAM).
	JUNCTION BOX, CEILING.
	LADDER RACK.
	MECHANICAL EQUIPMENT CONNECTION. REFER TO EQUIPMENT SCHEDULE FOR REQUIREMENTS.
WIRING DEVICES	
	RECEPTACLE, DUPLEX: NEMA 5-20R.
	RECEPTACLE, DUPLEX, ABOVE COUNTER: NEMA 5-20R.
	RECEPTACLE, DUPLEX, CEILING: NEMA 5-20R.
	RECEPTACLE, DUPLEX WITH GROUND FAULT INTERRUPTER, DRINKING FOUNTAIN: CONCEAL WATER COOLER RECEPTACLE BEHIND WATER COOLER. SEE MECHANICAL/PLUMBING SHOP DRAWINGS FOR INSTALLATION REQUIREMENTS.
	RECEPTACLE, DUPLEX, ISOLATED GROUND: NEMA 5-20R.
	RECEPTACLE, DUPLEX, SWITCHED: NEMA 5-20R.
	RECEPTACLE, DUPLEX WITH GROUND FAULT CIRCUIT INTERRUPTER, WET LABEL, "WEATHERPROOF IN USE": NEMA 5-20R.
	RECEPTACLE, DUPLEX, WEATHERPROOF: NEMA 5-20R.
	RECEPTACLE, DUPLEX, HOSPITAL GRADE: NEMA 5-20R.
	RECEPTACLE, DUPLEX ON EMERGENCY POWER: NEMA 5-20R.
	RECEPTACLE, DUPLEX, CONNECTED TO UPS: NEMA 5-20R.
	RECEPTACLE, DUPLEX WITH GROUND FAULT CIRCUIT INTERRUPTER: NEMA 5-20R.
	RECEPTACLE, DUPLEX WITH GROUND FAULT CIRCUIT INTERRUPTER, WEATHERPROOF: NEMA 5-20R.
	RECEPTACLE, QUADRUPLEX: NEMA 5-20R.
	RECEPTACLE, QUADRUPLEX ON EMERGENCY POWER: NEMA 5-20R.
	RECEPTACLE, SPECIAL PURPOSE. PROVIDE RECEPTACLE TO MATCH EQUIPMENT PLUG.
	RECEPTACLE, SPECIAL PURPOSE ON EMERGENCY POWER. PROVIDE RECEPTACLE TO MATCH EQUIPMENT PLUG.
	MULTI-OUTLET ASSEMBLY: NEMA 5-20R.

SYMBOLS LEGEND	
SYMBOL	DESCRIPTION
	THERMOSTAT.
	FLUSH FLOOR BOX. "F" SHOWN ON DRAWINGS. REFER TO WIRING DEVICE SCHEDULE IN THE ELECTRICAL SPECIFICATIONS FOR CONFIGURATION AND DEVICES.
	FLUSH FIRE RATED POKE THRU. "F" SHOWN ON DRAWINGS. REFER TO WIRING DEVICE SCHEDULE IN THE ELECTRICAL SPECIFICATIONS FOR CONFIGURATION AND DEVICES.
	SWITCH, DIMMER.
	SWITCH, SINGLE POLE ("X" INDICATES FIXTURES CONTROLLED).
	SWITCH, DOUBLE POLE ("X" INDICATES FIXTURES CONTROLLED).
	SWITCH, THREE-WAY ("X" INDICATES FIXTURES CONTROLLED).
	SWITCH, FOUR-WAY ("X" INDICATES FIXTURES CONTROLLED).
	SWITCH, KEY OPERATED.
	SWITCH, MOMENTARY.
	SWITCH, PILOT LIGHT.
	SWITCH, TIMER OPERATED.
	SWITCH, WEATHERPROOF.
	RECEPTACLE, SINGLE PLEX, WITH USB OUTLET
SITE ELECTRICAL AND COMMUNICATIONS UTILITIES	
	ELECTRIC LINE: THIN LINE. 10 = SINGLE PHASE, 20 = 2-PHASE, 30 = 3-PHASE, 0 = OVERHEAD, U = UNDERGROUND, P = PRIMARY, S = SECONDARY
	UTILITY, COMMUNICATIONS MANHOLE.
	UTILITY, ELECTRICAL MANHOLE.
ELECTRICAL POWER AND DISTRIBUTION	
	FUSE WITH RATING (ONE-LINE DIAGRAM).
	DISCONNECT, FUSED (ONE-LINE DIAGRAM).
	DISCONNECT, NONFUSED (ONE-LINE DIAGRAM).
	STARTER WITH OVERLOAD RELAY (ONE-LINE DIAGRAM).
	CIRCUIT BREAKER, MOLDED CASE (ONE-LINE DIAGRAM).
	CIRCUIT BREAKER, MOLDED CASE WITH SHUNT TRIP (ONE-LINE DIAGRAM).
	CIRCUIT BREAKER, MOTOR CIRCUIT PROTECTION (ONE-LINE DIAGRAM).
	CIRCUIT BREAKER, SOLID STATE (ONE-LINE DIAGRAM). "LSSIG" INDICATES LONG TIME, SHORT TIME, INSTANTANEOUS AND GROUND FAULT ADJUSTABILITY.
	CIRCUIT BREAKER, SOLID STATE WITH GROUND FAULT PROTECTION (ONE-LINE DIAGRAM).
	MOTOR.
	HEATER, ELECTRIC RESISTANCE.
	TRANSFORMER (ONE-LINE DIAGRAM).
	TRANSFORMER, CURRENT (ONE-LINE DIAGRAM).
	BATTERY (ONE-LINE DIAGRAM).
	CAPACITOR (ONE-LINE DIAGRAM).
	DELTA CONNECTION (ONE-LINE DIAGRAM).
	WYE CONNECTION (ONE-LINE DIAGRAM).
	PANELBOARD (ONE-LINE DIAGRAM).
	PANELBOARD WITH MAIN LUGS ONLY. BUS SIZE AND PHASE AS SHOWN (ONE-LINE DIAGRAM).
	PANELBOARD WITH MAIN CIRCUIT BREAKER. SIZE AND PHASE AS SHOWN (ONE-LINE DIAGRAM).
	PANELBOARD WITH MAIN AND SUB FEED CIRCUIT BREAKER (ONE-LINE DIAGRAM).
	PANELBOARD WITH MAIN LUGS ONLY AND SURGE PROTECTION WITH CIRCUIT BREAKER (ONE-LINE DIAGRAM).
	PANELBOARD WITH SUB FEED LUGS (ONE-LINE DIAGRAM).
	PANELBOARD WITH CIRCUIT BREAKER AND SUB FEED LUGS (ONE-LINE DIAGRAM).
	CT CABINET PER UTILITY'S REQUIREMENTS (ONE-LINE DIAGRAM).

SYMBOLS LEGEND	
SYMBOL	DESCRIPTION
ELECTRICAL POWER AND DISTRIBUTION	
	CT CABINET PER UTILITY'S REQUIREMENTS (ONE-LINE DIAGRAM).
	TRANSFER SWITCH (ONE-LINE DIAGRAM).
	DIGITAL MULTIMETER (ONE-LINE DIAGRAM).
	SERVICE ENTRANCE SURGE PROTECTION (ONE-LINE DIAGRAM).
	GENERATOR, ANNUNCIATOR (ONE-LINE DIAGRAM).
	GENERATOR, POWER (ONE-LINE DIAGRAM).
	METER.
	VARIABLE FREQUENCY MOTOR CONTROLLER (ONE-LINE DIAGRAM).
	DISCONNECT SWITCH, FUSED.
	DISCONNECT SWITCH, UNFUSED.
	STARTER, COMBINATION WITH DISCONNECT SWITCH.
	STARTER OR MOTOR CONTROLLER.
	PUSHBUTTON.
	PUSHBUTTONS, MOTOR CONTROL.
	PANELBOARD CABINET, FLUSH MOUNTED.
	PANELBOARD CABINET, SURFACE MOUNTED, 1 SECTION.
	PANELBOARD CABINET, SURFACE MOUNTED, 2 SECTION.
	DISTRIBUTION PANEL OR SWITCHBOARD.
	LIGHTING RELAY, CONTACTOR PANEL, OR DIMMING ENCLOSURE.
	LIGHTING CONTROL STATION.
	SWITCH, TOGGLE MOTOR STARTER WITH OVERLOAD PROTECTION.
	TRANSFORMER: NUMBER INDICATES KVA.
	RELAY CONTACT, NORMALLY CLOSED (ONE-LINE DIAGRAM).
	RELAY CONTACT, NORMALLY OPEN (ONE-LINE DIAGRAM).
	PUSHBUTTON, NORMALLY CLOSED (ONE-LINE DIAGRAM).
	PUSHBUTTON, NORMALLY OPEN (ONE-LINE DIAGRAM).
	SWITCH, MULTIPosition (ONE-LINE DIAGRAM).
	SWITCH, SINGLE BREAK (ONE-LINE DIAGRAM).
	SPECIALIZED TRANSFER SWITCH (ONE-LINE DIAGRAM).
LIGHTING (REFER TO FIXTURE SCHEDULE FOR SYMBOLS)	
	FIXTURE IDENTIFICATION. (W-3) INDICATES FIXTURE TYPE AS SCHEDULED.
	FIXTURE IDENTIFICATION. EMERGENCY WITH BATTERY PACK, CONNECTED TO GENERATOR AS INDICATED. (W-3) INDICATES FIXTURE TYPE AS SCHEDULED.
	EMERGENCY.
	NIGHT LIGHT: DO NOT SWITCH.
	EGRESS DIRECTION ARROW (EXIT SIGNS).
	LOW VOLTAGE LIGHTING TRANSFORMER.
	EXIT SIGN: SINGLE FACE, CEILING MOUNTED.
	EXIT SIGN: SINGLE FACE, WALL MOUNTED.
	EXIT SIGN: DOUBLE FACE, CEILING MOUNTED.
	EXIT SIGN: DOUBLE FACE, WALL MOUNTED.
LIGHTING CONTROL	
	OCCUPANCY SENSOR, DUAL TECHNOLOGY, OMNI-DIRECTIONAL, CEILING.
	OCCUPANCY SENSOR, DUAL TECHNOLOGY, WALL.
	OCCUPANCY SENSOR, DUAL TECHNOLOGY, DIRECTIONAL.
	OCCUPANCY SENSOR, ULTRASONIC, OMNI-DIRECTIONAL, CEILING.
	OCCUPANCY SENSOR CONTROL RELAY.
	VACANCY SENSOR, DUAL TECHNOLOGY, OMNI-DIRECTIONAL, CEILING.
	VACANCY SENSOR, DUAL TECHNOLOGY, WALL.
	PHOTOCELL.
	OCCUPANCY SENSOR, SWITCH PACK.
STRUCTURED CABLING	
	TELEPHONE, WALL MOUNTED ("X" INDICATES QUANTITY OF CABLES).
	DATA CONNECTION: WIRELESS ACCESS POINT (WAP), REQUIRES (2) DATA DROPS PER DEVICE.
	TELEPHONE, WALL MOUNTED: WALL PHONE.
	OUTLET, DATA COMMUNICATION ("X" INDICATES QUANTITY OF CABLES).
	OUTLET, BUILDING STANDARD COMBINATION TELEPHONE/DATA COMMUNICATION.
	TWO-WAY EMERGENCY COMMUNICATION DEVICE PER IBC, WALL MOUNTED IN RECESSED BOX.
	TELEPHONE TERMINAL BOARD, FIRE TREATED PLYWOOD PAINTED.
	LAN RACK, FLOOR STANDING.
	DATA CABLE, CATEGORY 5 (ONE-LINE DIAGRAM).
	VOICE CABLE, CATEGORY 3 (ONE-LINE DIAGRAM).

SYMBOLS LEGEND	
SYMBOL	DESCRIPTION
FIRE ALARM	
	FIRE SYSTEM ANNUNCIATOR.
	FIRE ALARM CONTROL PANEL, SEMI-RECESSED.
	FIRE ALARM NOTIFICATION POWER SUPPLY.
	FIRE ALARM TRANSDUCER OR TRANSMITTER.
	SMOKE CONTROL PANEL.
	AUTOMATIC DOOR CLOSERS: DOOR CLOSERS SHALL BE FURNISHED WITH DOOR HARDWARE AND CONNECTED TO BY FIRE ALARM INSTALLERS.
	CONTROL MODULE.
	MONITOR MODULE.
	FIRE ALARM MANUAL PULL STATION.
	SHUT DOWN RELAY: INSTALL RELAY IN CONTROL CIRCUIT OF EQUIPMENT TO BE CONTROLLED IN THE EVENT OF A FIRE.
	MAGNETIC DOOR HOLDER.
	DETECTOR, SMOKE.
	DETECTOR, SMOKE WITH AUXILIARY CONTACT.
	DETECTOR, SMOKE, BEAM RECEIVER.
	DETECTOR, SMOKE, BEAM TRANSMITTER.
	DETECTOR, SMOKE, ELEVATOR RECALL DESIGNATION.
	DETECTOR, SMOKE, DUCT WITH HOUSING AND SAMPLING TUBE.
	DETECTOR, HEAT.
	INDICATOR LAMP.
	STROBE. SUBSCRIPT INDICATES CANDELA RATING.
	ALARM, HORN/SPEAKER, WEATHERPROOF.
	ALARM, HORN/STROBE, ONE ASSEMBLY.
	ALARM, HORN/STROBE, ONE ASSEMBLY. SUBSCRIPT INDICATES CANDELA RATING.
	SPEAKER, EVACUATION.
	SPEAKER, EVACUATION, COMBINATION STROBE.
	DETECTOR, FLOW SWITCH: FLOW SWITCHES SHALL BE PROVIDED AND INSTALLED WITH FIRE SPRINKLER SYSTEM AND SHALL BE CONNECTED TO LOCATIONS SHOWN ON THE FIRE SPRINKLER SHOP DRAWINGS.
	DETECTOR, TAMPER SWITCH WITH VALVE. TAMPER SWITCHES SHALL BE PROVIDED AND INSTALLED WITH FIRE SPRINKLER SYSTEM AND SHALL BE CONNECTED TO LOCATIONS SHOWN ON THE FIRE SPRINKLER SHOP DRAWINGS.
	SMOKE DAMPER.
	FIRE AND SMOKE DAMPER.
	DETECTOR, CARBON MONOXIDE.
	ALARM, SPEAKER/STROBE, ONE ASSEMBLY, CEILING MOUNTED. SUBSCRIPT INDICATES CANDELA RATING.
	ALARM, SPEAKER, CEILING MOUNTED. SUBSCRIPT INDICATES CANDELA RATING.
	ALARM, STROBE, CEILING MOUNTED. SUBSCRIPT INDICATES CANDELA RATING.
TECHNOLOGY SYSTEMS	
	TECHNOLOGY SYSTEM CABLE. SEE SPECIFIC JOB EQUIPMENT LIST FOR APPLICABLE DESIGNATIONS.
	EXAMPLES: C = CONTROL CABLE G = GROUND CABLE, 10 AWG, 1 CONDUCTOR, GREEN INSULATED M = MICROPHONE CABLE S = SPEAKER CABLE, 70 VOLT SYSTEM Z = SPEAKER CABLE, 8 OHM SYSTEM
	SPEAKER, CEILING MOUNTED.
	EQUIPMENT CABINET.
	PROJECTOR, CEILING MOUNTED.
CLOCK	
	CLOCK.
SECURITY	
	SECURITY CABLE. SEE EQUIPMENT SCHEDULE FOR CABLE TYPE.
	ACCESS CONTROL HEADEND EQUIPMENT.
	SECURITY CONTROL PANEL.
	INTRUSION DETECTION HEADEND EQUIPMENT.
	CARD ACCESS DOOR TYPE #1 OR AS NOTED. SEE SCHEDULE.
	CARD READER.
	EXIT REQUEST.
	REMOTE DOOR RELEASE BUTTON.
TV DISTRIBUTION	
	TV DISTRIBUTION CABLE, INDIVIDUAL DROPS.
	TV DISTRIBUTION CABLE, TRUNK.
	COMBINER.
	DIRECTIONAL COUPLER.
	TV OUTLET.

ABBREVIATIONS			
NOTE: ALL ABBREVIATIONS MAY NOT BE USED.			
1P	SINGLE POLE	WH	KILOWATT HOUR
1PH	SINGLE PHASE	LED	LIGHT EMITTING DIODE
2/C	TWO-CONDUCTOR	LFMC	LIQUID TIGHT FLEXIBLE METAL CONDUIT
3/C	THREE-CONDUCTOR	LRA	LOOKING MOTOR AMPS
4PDT	FOUR-POLE DOUBLE THROW	LTG	LOW VOLTAGE
4PST	FOUR-POLE SINGLE THROW	LV	LOW VOLTAGE
4W	FOUR-WIRE	MATV	MASTER ANTENNA TELEVISION SYSTEM
A	ABOVE COUNTER	MAX	MAXIMUM
AC	ARMORED CABLE	MC	METAL CLAD
ADA	AMERICANS WITH DISABILITIES ACT	MCA	MINIMUM CIRCUIT AMPS
ADJ	ADJACENT	MCB	MAIN CIRCUIT BREAKER
AFF	ABOVE FINISHED FLOOR	MCC	MOTOR CONTROL CENTER
AFG	ABOVE FINISHED GRADE	MCP	MOTOR CIRCUIT PROTECTION
AM	AMPERE INTERRUPTING CAPACITY	MDF	MAIN DISTRIBUTION PANEL
ALUM	ALUMINUM	MH	MANHOLE
AMP	AMPERE	MIN	MINIMUM
ANN	ANNUNCIATOR	MLO	MAIN LUGS ONLY
AP	ACCESS POINT (WIRELESS DATA)	MOCP	MAXIMUM OVERCURRENT PROTECTION
AR	AS REQUIRED	NA	NOT APPLICABLE
ASC	AMPS SHORT CIRCUIT	NC	NORMALLY CLOSED
ATS	AUTOMATIC TRANSFER SWITCH	NEC	NATIONAL ELECTRICAL CODE
AV	AUDIO VISUAL	NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
AWG	AMERICAN WIRE GAGE	NFC	NATIONAL FIRE CODE
C	CEILING MOUNTED	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
CATV	COMMUNITY ANTENNA TELEVISION	NIC	NOT IN CONTRACT
CB	CIRCUIT BREAKER	NL	NIGHT LIGHT
CCBA	CUSTOM COLOR AS SELECTED BY ARCHITECT	NO	NORMALLY OPEN
CCTV	CLOSED CIRCUIT TELEVISION	NOT	NOT TO SCALE
CF/CI	CONTRACTOR FURNISHED/ CONTRACTOR INSTALLED	OC	ON CENTER
CF/OI	CONTRACTOR FURNISHED/ OWNER INSTALLED	OCP	OVER CURRENT PROTECTION
CFBA	CUSTOM FINISH AS SELECTED BY ARCHITECT	OF/CI	OWNER FURNISHED/ CONTRACTOR INSTALLED
CKT	CIRCUIT	OF/OI	OWNER FURNISHED/ OWNER INSTALLED
CM	CONSTRUCTION MANAGER	OP	OBTAIN FROM PLANS
CND	CONDUIT	OH DR	OVERHEAD (COILING) DOOR
CO	CONVENIENCE OUTLET	OL	OVERLOAD
CP	CONTROL PANEL	PF	PUSHBUTTON
CT	CURRENT TRANSFORMER	PH	POWER FACTOR
CTV	CABLE TELEVISION	PH	PHASE
CJ	COPPER	PNL	PANEL
dBA	UNIT OF SOUND LEVEL	PT	POTENTIAL TRANSFORMER
DPDT	DOUBLE POLE, DOUBLE THROW	PTZ	PANTILTZOOM
EA	EACH	QTY	QUANTITY
EM	EMERGENCY	RCP	REFLECTED CEILING PLAN
EMT	ELECTRICAL METALLIC TUBING	RMC	RIGID METAL CONDUIT
RNC	ELECTRIC NONMETALLIC TUBING	RNC	RIGID NONMETAL CONDUIT
EPO	EMERGENCY POWER OFF EQUIPMENT	RPM	REVOLUTIONS PER MINUTE
EX	EXISTING	S/S	START/STOP
F	FURNITURE MOUNTED	SCA	SHORT CIRCUIT AMPS
FA	FIRE ALARM	SCBA	STANDARD CYLINDER AS SELECTED BY ARCHITECT
FCP	FIRE ALARM CONTROL PANEL	SF	SQUARE FOOT (FEET)
FLA	FULL LOAD AMPS	SFBA	STANDARD FINISH AS SELECTED BY ARCHITECT
FMC	FLEXIBLE METAL CONDUIT	SPD	SURGE PROTECTIVE DEVICE
FOB	FREIGHT ON BOARD	SPDT	SINGLE POLE, DOUBLE THROW SWITCH
FVNR	FULL VOLTAGE NON-REVERSING	SPEC	SPECIFICATION
FVR	FULL VOLTAGE REVERSING	SPST	SINGLE POLE, SINGLE THROW SWITCH
GEN	GENERATOR	ST	SINGLE THROW SWITCH
GFCI	GROUND FAULT INTERRUPTER	SWBD	SWITCHBOARD
GFP	GROUND FAULT PROTECTION	SWGR	SWITCHGEAR
HD	HEAVY DUTY	TL	TWIST LOCK
HID	HIGH INTENSITY DISCHARGE	TP	TWISTED PAIR
HOA	HAND-OFF-AUTOMATIC	TTB	TELEPHONE TERMINAL BOARD
HP	HORSE POWER	TV	TELEVISION
HPF	HIGH POWER FACTOR	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSER
HV	HIGH VOLTAGE	TY	TYPICAL
HZ	HERTZ	UF	UNDERFLOOR
IO	INPUT OUTPUT	UGND	UNDERGROUND
IG	ISOLATED GROUND	UPS	UNINTERRUPTIBLE POWER SUPPLY
IMC	INTERMEDIATE METAL CONDUIT	V	VOLTS</



TO EXISTING MANHOLE,
THEN CONTINUE WITH
NEW LOOPED FEEDER TO
UPPER CENTRAL PLANT

NEW 15 KV
DUCT BANK

NEW 15 KV
DUCT BANK

NEW 15 KV
DUCT BANK

NEW PAD-MOUNTED
15 KV SWITCH

NEW 15 KV
DUCT BANK

TO EXISTING 15 KV
SWITCH IN GUNTHER
TRADES BUILDING

NEW 15 KV
DUCT BANK

NEW PAD-MOUNTED
TRANSFORMERS

NEW PAD-MOUNTED
15 KV SWITCH

DIESEL
GENERATOR

CAMPUS DRIVE
(PUBLIC STREET)

WOLVERINE WAY
(PUBLIC STREET)

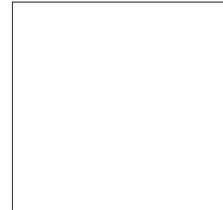
A1 SITE ELECTRICAL PLAN
SCALE: 1" = 30'-0"

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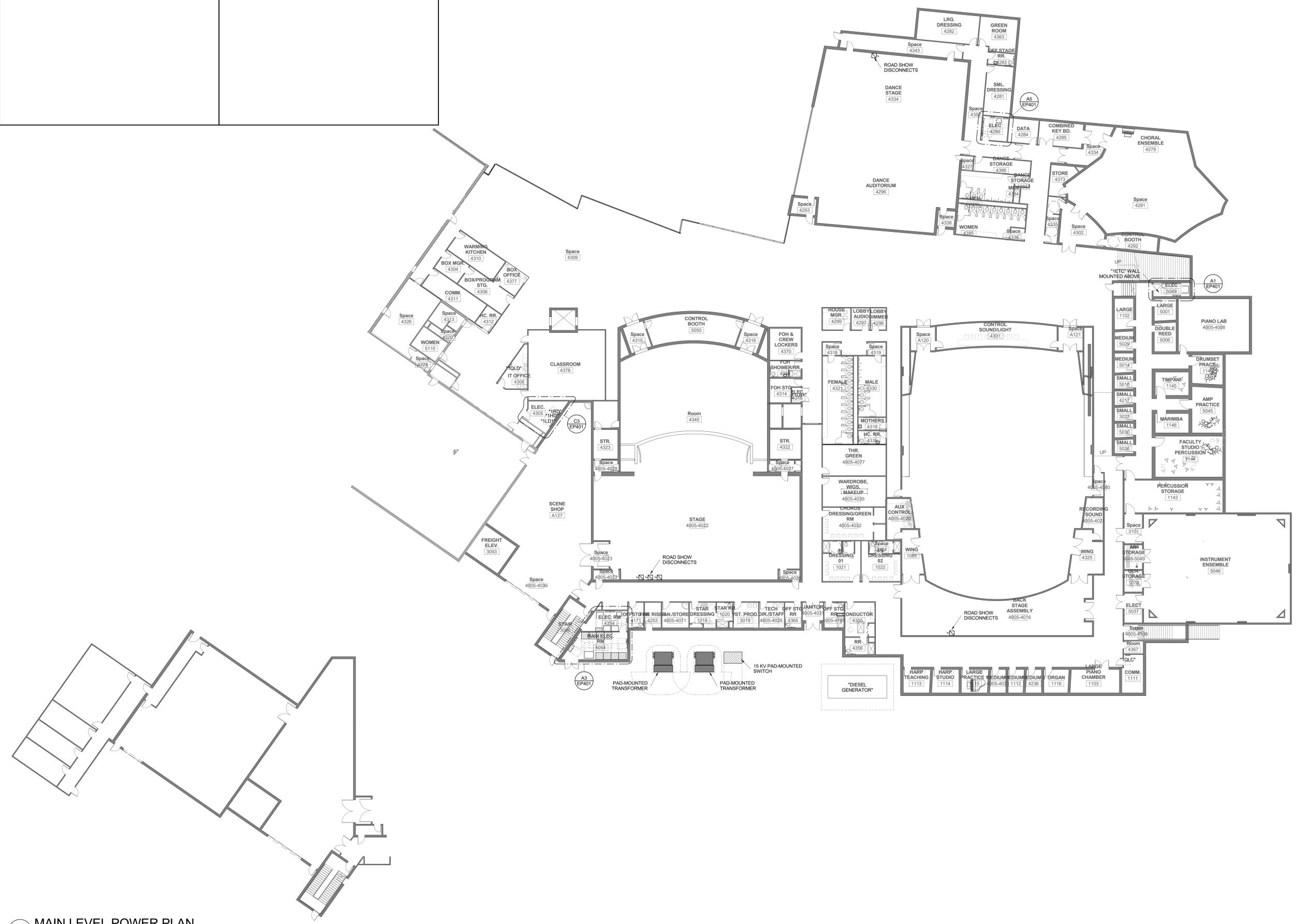
title:
**ELECTRICAL
SITE PLAN**

sheet:
ES101

SCHEMATIC SUBMITTAL SET

GENERAL SHEET NOTES

SHEET KEYNOTES



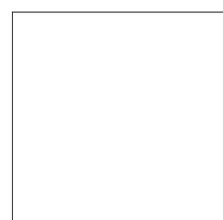
A1 MAIN LEVEL POWER PLAN
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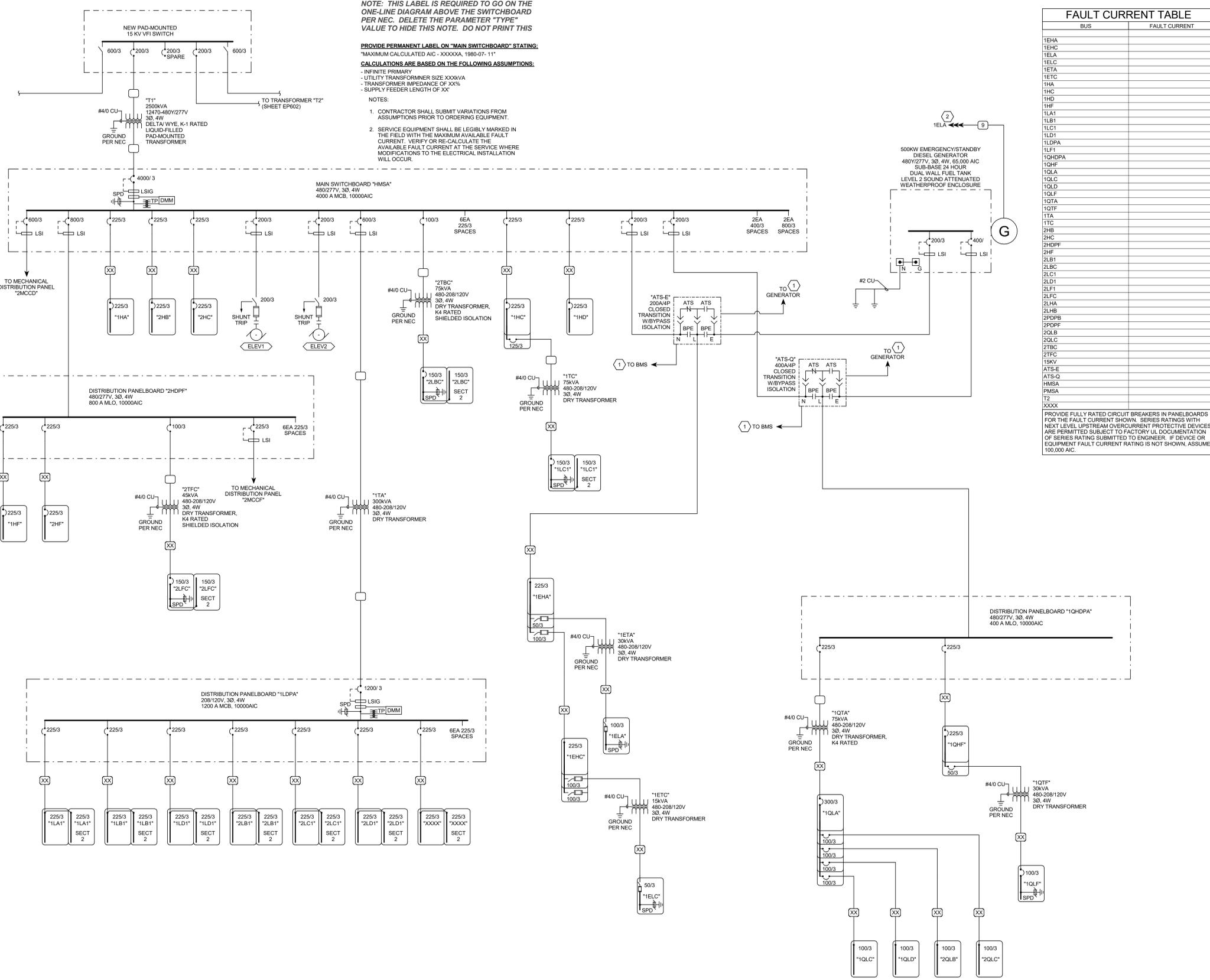
revisions:

title:
**ENTRY LOBBY
POWER PLAN**

sheet:

EP102

SCHEMATIC SUBMITTAL SET



NOTE: THIS LABEL IS REQUIRED TO GO ON THE ONE-LINE DIAGRAM ABOVE THE SWITCHBOARD PER NEC. DELETE THE PARAMETER "TYPE" VALUE TO HIDE THIS NOTE. DO NOT PRINT THIS

PROVIDE PERMANENT LABEL ON "MAIN SWITCHBOARD" STATING:
 "MAXIMUM CALCULATED AIC - XXXXXA, 1980-07-11"

CALCULATIONS ARE BASED ON THE FOLLOWING ASSUMPTIONS:
 - INFINITE PRIMARY
 - UTILITY TRANSFORMER SIZE XXXXVA
 - TRANSFORMER IMPEDANCE OF XX%
 - SUPPLY FEEDER LENGTH OF XX"

NOTES:
 1. CONTRACTOR SHALL SUBMIT VARIATIONS FROM ASSUMPTIONS PRIOR TO ORDERING EQUIPMENT.
 2. SERVICE EQUIPMENT SHALL BE LEGIBLY MARKED IN THE FIELD WITH THE MAXIMUM AVAILABLE FAULT CURRENT. VERIFY OR RE-CALCULATE THE AVAILABLE FAULT CURRENT AT THE SERVICE WHERE MODIFICATIONS TO THE ELECTRICAL INSTALLATION WILL OCCUR.

FAULT CURRENT TABLE	
BUS	FAULT CURRENT
1EHA	
1EHC	
1ELA	
1ELC	
1ETA	
1ETC	
1HA	
1HC	
1HF	
1LA1	
1LB1	
1LC1	
1LD1	
1LDBA	
1LFA	
1LHDA	
1QHF	
1QLA	
1QLC	
1QLD	
1QLF	
1QTA	
1QTF	
1TA	
1TC	
2HB	
2HC	
2HDFP	
2HF	
2LB	
2LBC	
2LC1	
2LD1	
2LFA	
2LFC	
2LHA	
2LHB	
2PDFB	
2PDFP	
2QLB	
2QLC	
2TBC	
2TFC	
15KV	
ATS-E	
ATS-Q	
HMSA	
PMSA	
T2	
XXXX	

GENERAL SHEET NOTES

1. PROVIDE NEMA 3R ENCLOSURES FOR EQUIPMENT LOCATED OUTDOORS. REFER TO PLANS FOR EQUIPMENT LOCATIONS.
2. REFER TO PLANS FOR CONSTRAINTS ON PHYSICAL DIMENSIONS AND CLEARANCE REQUIREMENTS OF EQUIPMENT. PROVIDE EQUIPMENT DIMENSIONS THAT FALL WITHIN THE CONSTRAINTS OF EACH SPECIFIC LOCATION.
3. ALL EQUIPMENT SHALL BE CONSTRUCTED AND BRACED FOR THE SEISMIC CONDITIONS OF THE PROJECT. REFER TO ELECTRICAL SPECIFICATIONS FOR REQUIREMENTS.
4. PROVIDE PERFORMANCE TESTING FOR GROUND-FAULT PROTECTION SYSTEMS ON SITE WITH A WRITTEN RECORD OF THIS TEST SUBMITTED TO THE AUTHORITY HAVING JURISDICTION PER 2011 NEC 230.95(C).

COPPER CONDUCTOR AND CONDUIT SCHEDULE

SCHEDULE NUMBER: (E.G. 5) IG

SUBSCRIPT (NOTE 5)

SYM	AMP	HH	CONDUIT SIZE	CONDUCTOR (NOTE 1)	IG/HH	SE	NOTES
11	20	-	.75	2 12 12 12	8	2	
12	20	-	.75	3 12 12 12	8	2.3	
13	20	24	.75	4 12 12 12	8	2.3	
14	30	-	.75	2 10 10 10	8	2	
15	30	-	.75	3 10 10 10	8	2	
16	30	32	.75	4 10 10 10	8	2	
17	40	-	1	2 8 10 8	6	2	
18	40	-	1	3 8 10 8	6	2	
19	40	44	1	4 8 10 8	6	2	
20	55	-	1	2 6 10 8	4	2	
21	55	-	1	3 6 10 8	4	2	
22	55	60	1.25	4 6 10 8	4	2	
23	70	-	1	2 4 8 4	2	2	
24	70	-	1.25	3 4 8 4	2	2	
25	70	76	1.25	4 4 8 4	2	2	
26	85	-	1.25	2 3 2	2	2	
27	85	-	1.25	3 3 8 3	2	2	
28	85	92	1.25	4 3 8 3	2	2	
29	95	-	1.25	3 2 8 2	2	2	
30	95	104	1.50	4 2 8 2	2	2	
31	130	-	1.50	3 1 6 2	2	2	
32	130	116	1.50	4 1 6 2	2	2	
33	150	-	2	3 1/6 6 2	1/6	2	
34	150	136	2	4 1/6 6 2	1/6	2	
35	175	-	2	3 2/6 2 2/6	2	2	
36	175	156	2	4 2/6 6 2	2	2	
37	200	-	2	3 3/6 6 2	2	2	
38	200	180	2.50	4 3/6 6 2	2	2	
39	230	-	2.50	3 4/6 4 2	2	2	
40	230	206	2.50	4 4/6 4 2	2	2	
41	255	-	2.50	3 25/4 1	2/10	2	
42	255	232	2.50	4 25/4 1	2/10	2	
43	310	-	3	3 350 3 1/6	3/6	2	
44	310	280	3	4 350 3 1/6	3/6	2	
45	380	-	3.50	3 500 3 3/6	3/6	2	
46	380	344	4	4 500 3 3/6	3/6	2	
47	400	-	2 EA 2	3 3/6 3 3/6	3/6	2	
48	400	360	2 EA 2.50	4 3/6 3 3/6	3/6	2	
49	510	-	2 EA 2.50	3 4/6 1 4/6	3/6	2	
50	510	464	2 EA 3	4 250 1 4/6	3/6	2	
51	620	-	2 EA 3	3 350 1/6 4/6	3/6	2.4	
52	620	560	2 EA 3	4 350 1/6 4/6	3/6	2.4	
53	760	-	2 EA 3.50	3 500 1/6 4/6	3/6	2.4	
54	760	688	2 EA 4	4 500 1/6 4/6	3/6	2.4	
55	855	-	3 EA 3	3 300 2/6 4/6	3/6	2.4	
56	855	768	3 EA 3	4 300 2/6 4/6	3/6	2.4	
57	1000	-	3 EA 3.50	3 400 2/6 4/6	3/6	4	
58	1000	912	3 EA 3.50	4 400 2/6 4/6	3/6	4	
59	1140	-	3 EA 4	3 500 3/6 4/6	3/6	4	
60	1140	1032	3 EA 4	4 500 3/6 4/6	3/6	4	
61	1240	-	4 EA 3	3 350 3/6 4/6	3/6	4	
62	1240	1128	4 EA 3	4 350 3/6 4/6	3/6	4	
63	1675	1520	5 EA 4	4 400 4/6 4/6	4/6	4	
64	2010	1824	6 EA 4	4 400 250 250	250	4	
65	2660	2408	7 EA 4	4 500 350 350	350	4	
66	3040	2752	8 EA 4	4 500 500 500	500	4	
67	4180	3784	11 EA 4	4 500 500 500	500	4	
68	-	-	5 EA 4	-	-	-	6
69	-	-	5	-	-	-	6
70	-	-	10 EA 4	-	-	-	6

CONDUIT AND CONDUCTOR SCHEDULE NOTES

1. CONDUCTORS SHOWN ARE SHOWN FOR EACH CONDUIT WITH MODIFICATIONS AS NOTED IN NOTE 5. ALL CONDUCTORS SHOWN ARE THWN UNLESS OTHERWISE NOTED.
2. PROVIDE EQUIPMENT GROUND CONDUCTORS PER TABLE 250-122 WHEN CIRCUIT BREAKERS ARE SIZED GREATER THAN AMPERE RATING SHOWN IN TABLE.
3. PROVIDE #10 NEUTRALS FOR MULTI-WIRE BRANCH CIRCUITS SERVING COMPUTERS.
4. GROUND (G) CONDUCTOR MAY BE DELETED ON SERVICE ENTRANCE CONDUCTORS.
5. SYMBOL SUBSCRIPTS:
 - "2N": INCLUDE TWO NEUTRAL CONDUCTORS, SIZED AS SCHEDULED FOR PHASES AND NEUTRAL CONDUCTORS.
 - "FG": FULL SIZE GROUND, SIZE EQUIPMENT GROUNDING CONDUCTOR TO BE SAME SIZE AS THE PHASE CONDUCTORS.
 - "HH": NEUTRAL CURRENTS EXIST DUE TO HIGH HARMONIC "NON-LINEAR" LOADS. CURRENT CARRYING CONDUCTORS DERATED ACCORDINGLY. PROVIDE THE IG/HH SIZE FOR THE EQUIPMENT GROUNDING CONDUCTOR.
 - "IG": INCLUDE IG (INSULATED/ISOLATED GROUND CONDUCTOR) SCHEDULED ALONG WITH THE GROUND OF EQUIPMENT GROUND CONDUCTOR.
 - "SE": SUBSTITUTE "SE" CONDUCTOR FOR "G" CONDUCTOR SHOWN, WHICH IS SIZED FOR THE GROUNDING OF THE SECONDARY OF THE SEPARATELY DERIVED SYSTEM.
 - "R": RACEWAY ONLY. CONDUCTORS PROVIDED BY UTILITY.

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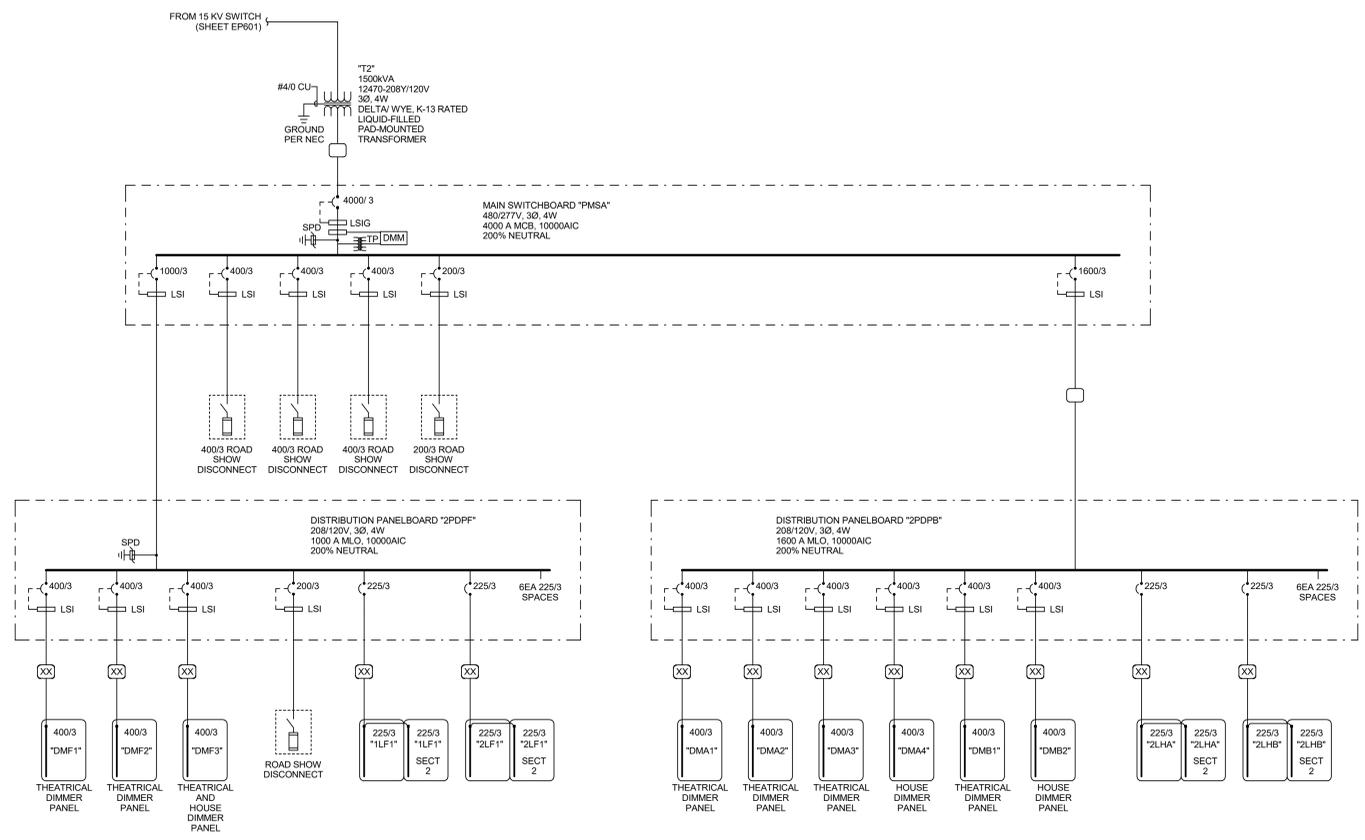
revisions:

title:
ONE-LINE DIAGRAM

sheet:

EP601

SCHEMATIC SUBMITTAL SET



1 ONE-LINE DIAGRAM (120/208V PERFORMANCE LIGHTING SYSTEMS)

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

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SCHEMATIC SUBMITTAL SET