

WAYNE STATE UNIVERSITY

Science Hall Lecture Room

Upgrades - 2nd Floor

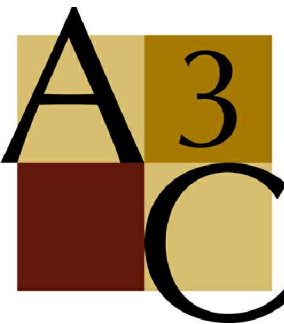
Detroit, Michigan

WSU Project No. 005-226260



Wayne State University

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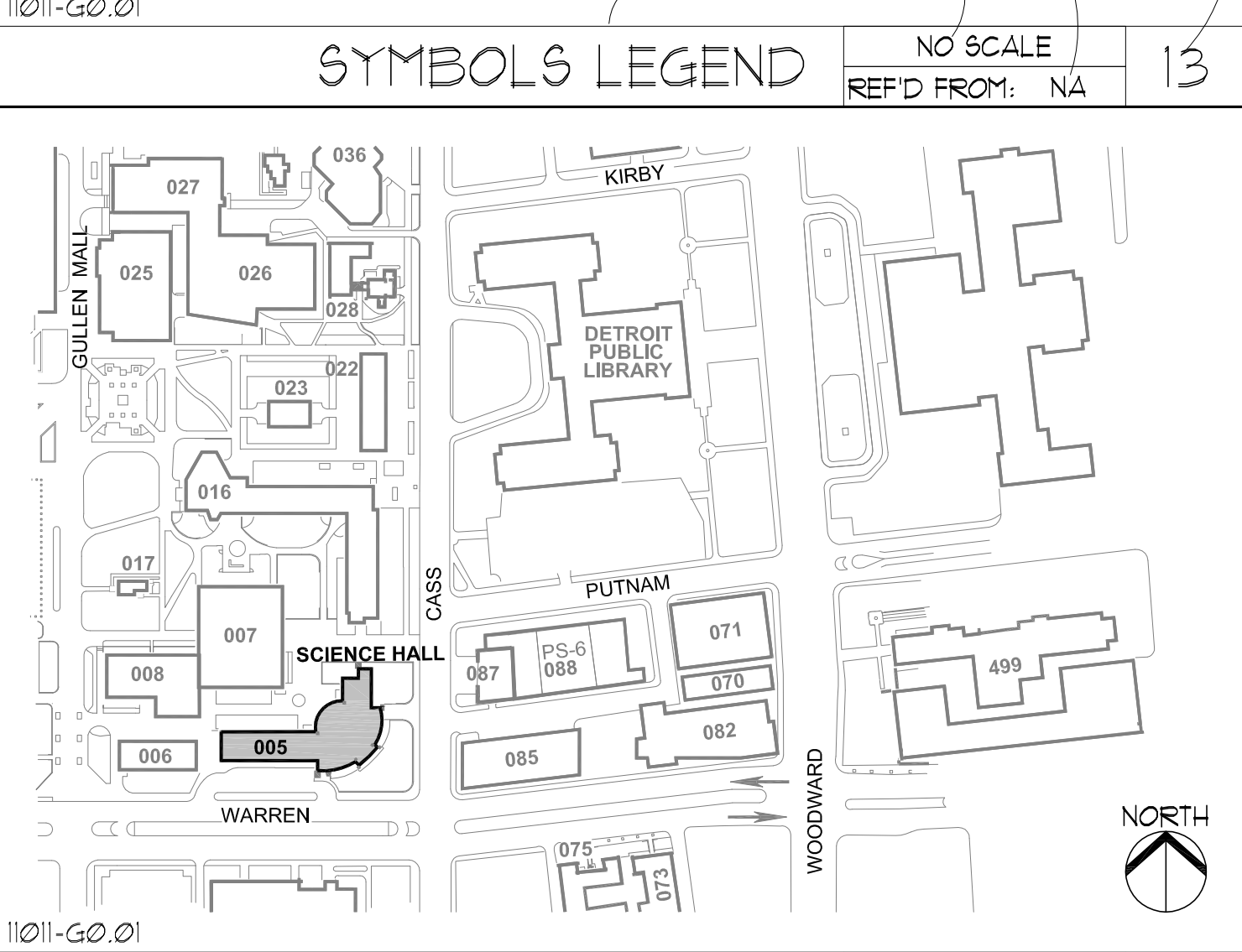
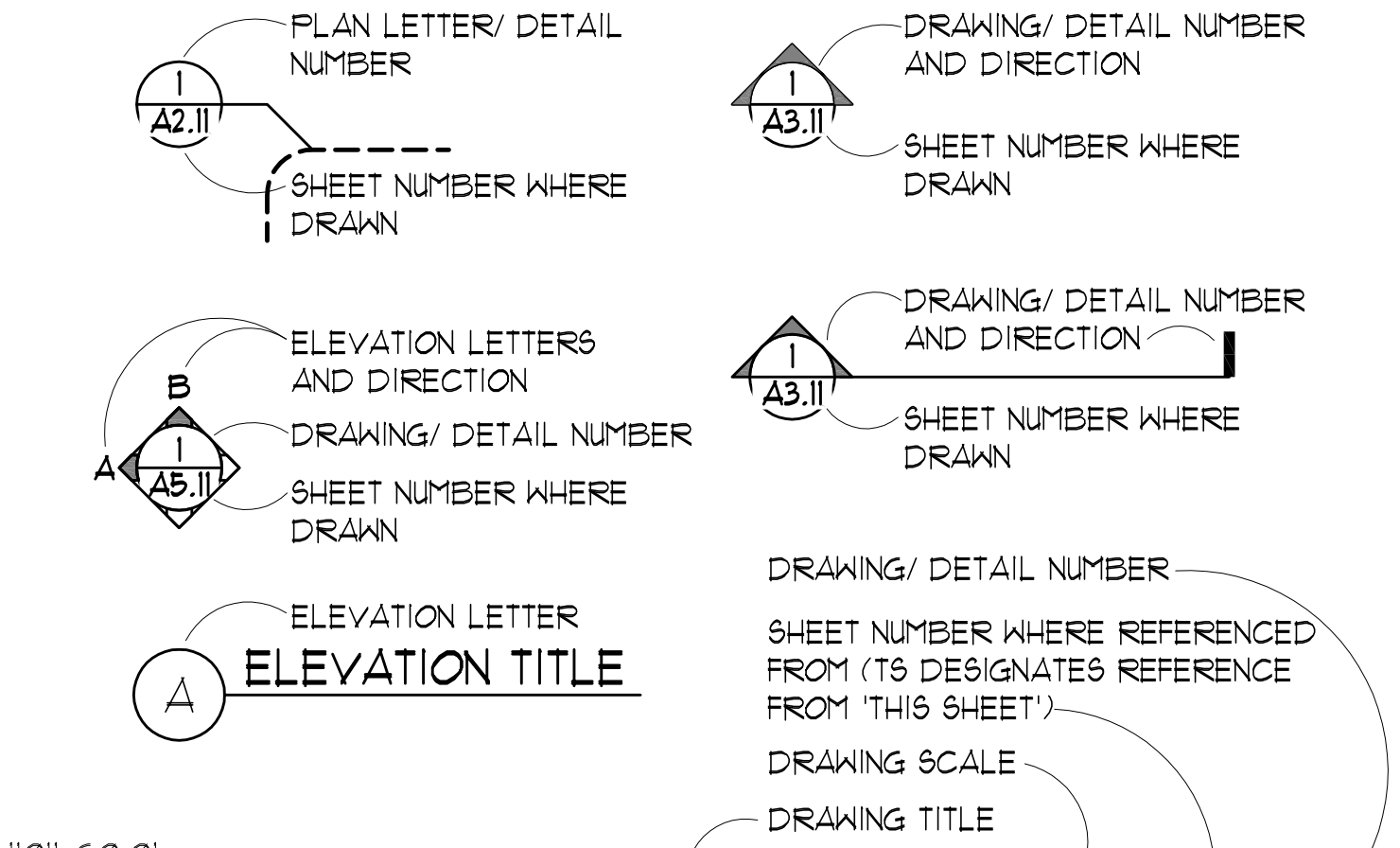


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PROJECT GENERAL NOTES:

1. ALL DIMENSIONS ARE FROM FINISH FACE OF MATERIAL, UNO.
2. ALL ANGLES ARE 90 DEGREES, UNO.
3. SITE CONDITIONS: THE CONTRACTOR BY COMMENCING THE WORK ACCEPTS THE CONDITIONS OF THE SITE AND THE COMPLETENESS OF THE CONTRACT DOCUMENTS. ANY DISCREPANCIES BETWEEN DRAWINGS AND ACTUAL CONDITIONS SHOULD BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO BEGINNING THE WORK. NO EXTRAS SHALL BE ALLOWED FOR DISCREPANCIES AFTER THE WORK HAS BEGUN.
4. DRAWINGS: ALL CONTRACTORS SHALL REVIEW ALL DRAWINGS AND SPECIFICATIONS. CONTRACTORS ARE RESPONSIBLE FOR COMPLETE REVIEW. ITEMS AFFECTING ALL TRADES ARE PLACED THROUGHOUT THE SET OF DRAWINGS. NO "EXTRAS" FOR MISSED ITEMS IN OTHER SECTIONS WILL BE PERMITTED. THE CONTRACTORS SHALL PROMPTLY NOTIFY THE ARCHITECT OF ANY AMBIGUITY, INCONSISTENCY OR ERROR WHICH THEY DISCOVER UPON EXAMINATION OF THE CONTRACT DOCUMENTS, THE SITE, OR LOCAL CONDITIONS. GENERAL CONTRACTORS SHALL DISTRIBUTE COMPLETE SETS OF DRAWINGS TO ALL SUBCONTRACTORS. DO NOT SEPARATE DRAWINGS BY DISCIPLINE. DO NOT SCALE DRAWINGS.
5. COMPLETENESS: ANY MATERIAL NOT SHOWN ON THE DRAWINGS, NOR SPECIFIED, BUT WHICH IS OBVIOUSLY NECESSARY TO COMPLETE THE WORK OF A SIMILAR NATURE SHALL BE FURNISHED WITHOUT ADDITIONAL COST TO THE OWNER OR ARCHITECT. IN THE CASE OF CONFLICTING QUANTITIES/VALUES, THE GREATER AMOUNT OR THE ONE OF GREATER VALUE SHALL PREVAIL AND BE PROVIDED BY THE CONTRACTOR AS A PART OF HIS BASE CONTRACT AND SHALL NOT BECOME A BASIS FOR CHANGE ORDERS OR CLAIMS FOR ADDITIONAL COMPENSATION.
- IN THE CASE OF CONFLICTING OR INCONSISTENT INFORMATION, THE MOST STRINGENT REQUIREMENTS SHALL PREVAIL AND BE PROVIDED BY THE CONTRACTOR AS A PART OF HIS BASE CONTRACT AND SHALL NOT BECOME A BASIS FOR CHANGE ORDERS OR CLAIMS FOR ADDITIONAL COMPENSATION.
6. PROTECTION: GENERAL CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR TAKING ALL STEPS NECESSARY TO PROTECT THE PUBLIC AND THE OWNER'S PERSONNEL FROM INJURY, AND ADJACENT PROPERTY FROM DAMAGES DURING CONSTRUCTION AS REQUIRED BY LOCAL CODES. THE GENERAL CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR PROJECT SECURITY FROM THE START OF THE WORK UNTIL THE OWNER ACCEPTS THE PROJECT AS SUBSTANTIALLY COMPLETE AND/OR OCCUPIABLE.
7. ALL WORK NOT INDICATED AS ALTERNATE BID AND WITHIN AREA DEFINED AS IN CONTRACT SHALL BE CONSIDERED BASE BID.
8. PROVIDE 1 HOUR CONSTRUCTION BARRIER WITH EXISTING PARTITIONS. SEE GENERAL CONDITIONS.



PROJECT TITLE

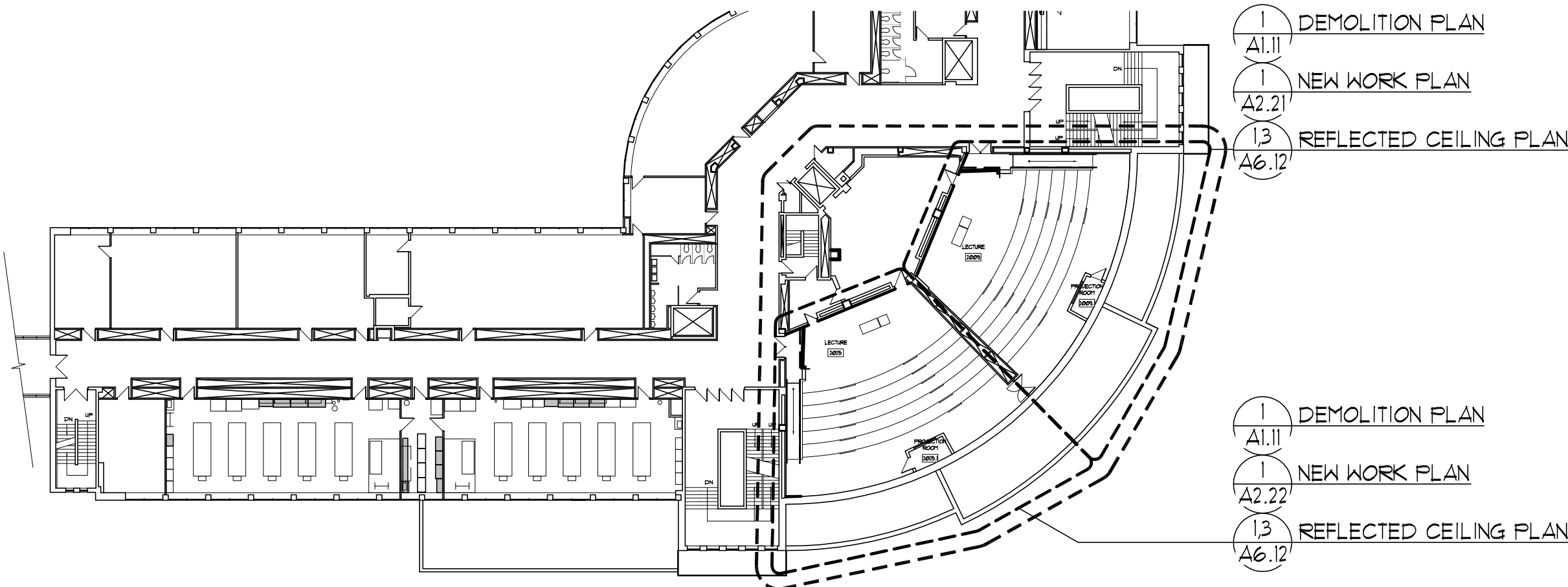
NO SCALE
REF'D FROM: NA

11

PROJECT NOTES

NO SCALE
REF'D FROM: NA

10



AFF	ABOVE FINISH FLOOR	MAX	MAXIMUM
ARCH	ARCHITECT(URAL)	MECH	MECHANICAL
BC	BASE CABINET	MFR	MANUFACTURER
BLDG	BUILDING	MIN	MINIMUM
CC	CENTER TO CENTER	MO	MASONRY OPENING
CJ	CONTROL JOINT	NA	NOT APPLICABLE
CLG	CEILING	NIC	NOT IN CONTRACT
CONC	CONCRETE	NOM	NOMINAL
CONT	CONTINUOUS	NTS	NOT TO SCALE
DB	DRAWER BASE	OC	ON CENTER
DIA	DIAMETER	OD	OUTSIDE DIAMETER
DG	DOWNSPOUT	OPG	OPENING
DWG	DRAWING	OPP	OPPOSITE
(E)	EXISTING	FR	PAIR
EA	EACH	PRVD	PROVIDED
EJ	EXPANSION JOINT	R	RISER
ELEC	ELECTRICAL	RE	REFER (TO)
EL	ELEVATION	REQD	REQUIRED
ELEV	ELEVATOR	RD	ROOF DRAIN
EQUIP	EQUIPMENT	RO	ROUGH OPENING
EWC	ELECTRIC WATER COOLER	SB	SINK BASE
EXT	EXTERIOR	SF	SQUARE FEET
FD	FLOOR DRAIN	SIM	SIMILAR
FOF	FACE OF FINISH	SPEC	SPECIFICATIONS
FOS	FACE OF STUD	SS	STAINLESS STEEL
FR	FIRE-RETARDANT	STD	STANDARD
GA	GAUGE OR GAGE	STR	STRUCTURAL
GC	GENERAL CONTRACTOR	T	TREAD
GI	GALVANIZED IRON	TS	THIS SHEET
GYP BD	GYP SUM BOARD	TOC	TOP OF CONCRETE
HM	HOLLOW METAL	TOS	TOP OF STEEL
HORIZ	HORIZONTAL	TOM	TOP OF MASONRY
HT	HEIGHT	TYP	TYPICAL
INT	INTERIOR	UNO	UNLESS NOTED OTHERWISE
ID	INSIDE DIAMETER	W/	WITH
JT	JOINT	WC	WORK COUNTER
LAV	LAVATORY	WD	WOOD
		WR	WATER RESISTANT
		WWF	WELDED WIRE FABRIC

NOTE: SEE DOOR, WINDOW AND INTERIOR FINISH SCHEDULES FOR ADDITIONAL ABBREVIATIONS

DRAWING INDEX KEY:		ISSUED FOR:	
ISSUED FOR REFERENCE ONLY ○		12.20.12	02.01.13
ISSUED FOR REVIEW ●		95% CD Review	For Bids
ISSUED FOR BID/PERMIT ●		95% CD Review	For Bids
SHT. #	SHEET NAME	12.20.12	02.01.13
GENERAL			
G0.01	Title Sheet	●	●
ARCHITECTURAL			
A1.11	Second Floor Demo Plan	●	●
A2.21	Second Floor-Room 2009 New Work, Furn & Finish Plan	●	●
A2.22	Second Floor-Room 2025 New Work, Furn & Finish Plan	●	●
A2.41	Door Schedule and Room Finish Schedule and Key	●	●
A5.11	Interior Elevations	●	●
A5.13	Interior Elevations	●	●
A6.12	Second Floor Ref Ceiling Plan and Keyed Notes	●	●
A8.11	Interior Details	●	●
ELECTRICAL			
E0.01	Electrical Standards and Drawing Index	●	●
E0.02	Electrical Standard Schedules, Details, and Diagrams	●	●
E1.01	Partial Second Floor Electrical Demolition Plan	●	●
E2.02	Second Floor Electrical New Work Plan-Base Bid	●	●
E2.02A	Second Floor Electrical New Work Plan-Alternate No. 1	●	●

ABBREVIATIONS LIST

NO SCALE
REF'D FROM: NA

2

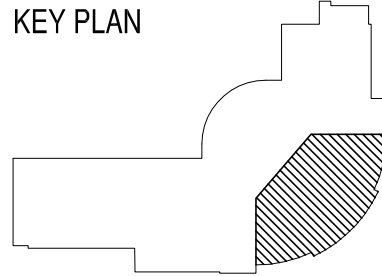
DRAWING INDEX

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REF'D FROM: NA

1



WSU PROJECT NUMBER
005-226260



PROJECT NUMBER
12089

ISSUE	For Bids	02.01.13
	95% CD Review	12.20.12

DRN: EJV CHK'D: JKC

WAYNE STATE UNIVERSITY

SCIENCE HALL

Lecture Room Upgrades - 2nd Floor

TITLE SHEET



SHEET
G0.01

A. GENERAL DEMOLITION NOTES AND KEYED DEMOLITION NOTES APPLY TO ALL ARCHITECTURAL DEMOLITION PLANS INCLUDED WITHIN THIS DOCUMENT SET.

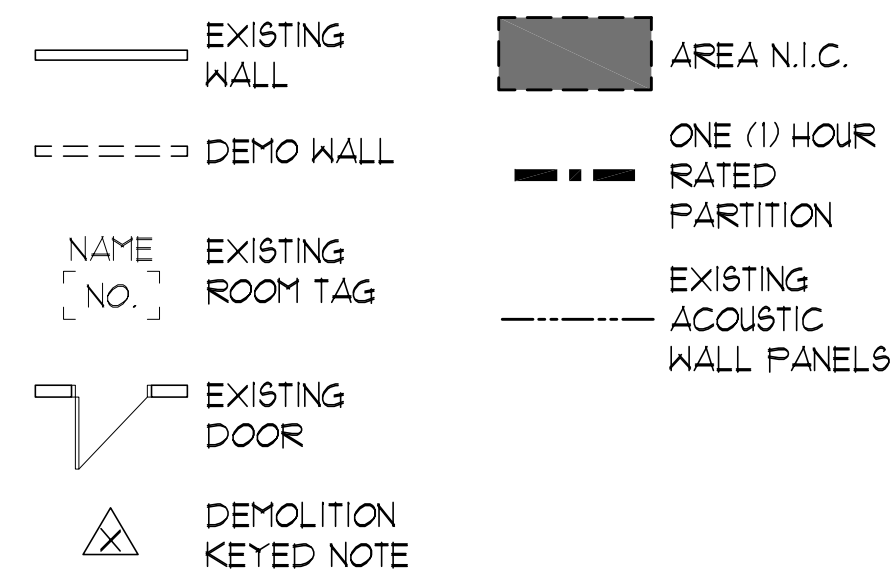
B. COORDINATE ALL DEMOLITION WORK WITH MECHANICAL AND ELECTRICAL DEMOLITION PLANS, WITH OWNER, AND WITH SALVAGED ITEMS AND COMPONENTS TO BE USED ON NEW WORK AS INDICATED ON DRAWINGS AND WITHIN SPECIFICATIONS.

C. THESE DEMOLITION NOTES AND PLAN DO NOT FULLY REPRESENT ALL DEMOLITION WORK REQUIRED TO INSTALL NEW WORK IN ACCORDANCE WITH CONTRACT DOCUMENTS, BUT ARE INTENDED TO SERVE AS GENERAL DEMOLITION GUIDELINES. REFER TO ARCHITECTURAL, STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR LOCATIONS OF INCIDENTAL DEMOLITION WORK NOT INDICATED ON THIS PLAN.

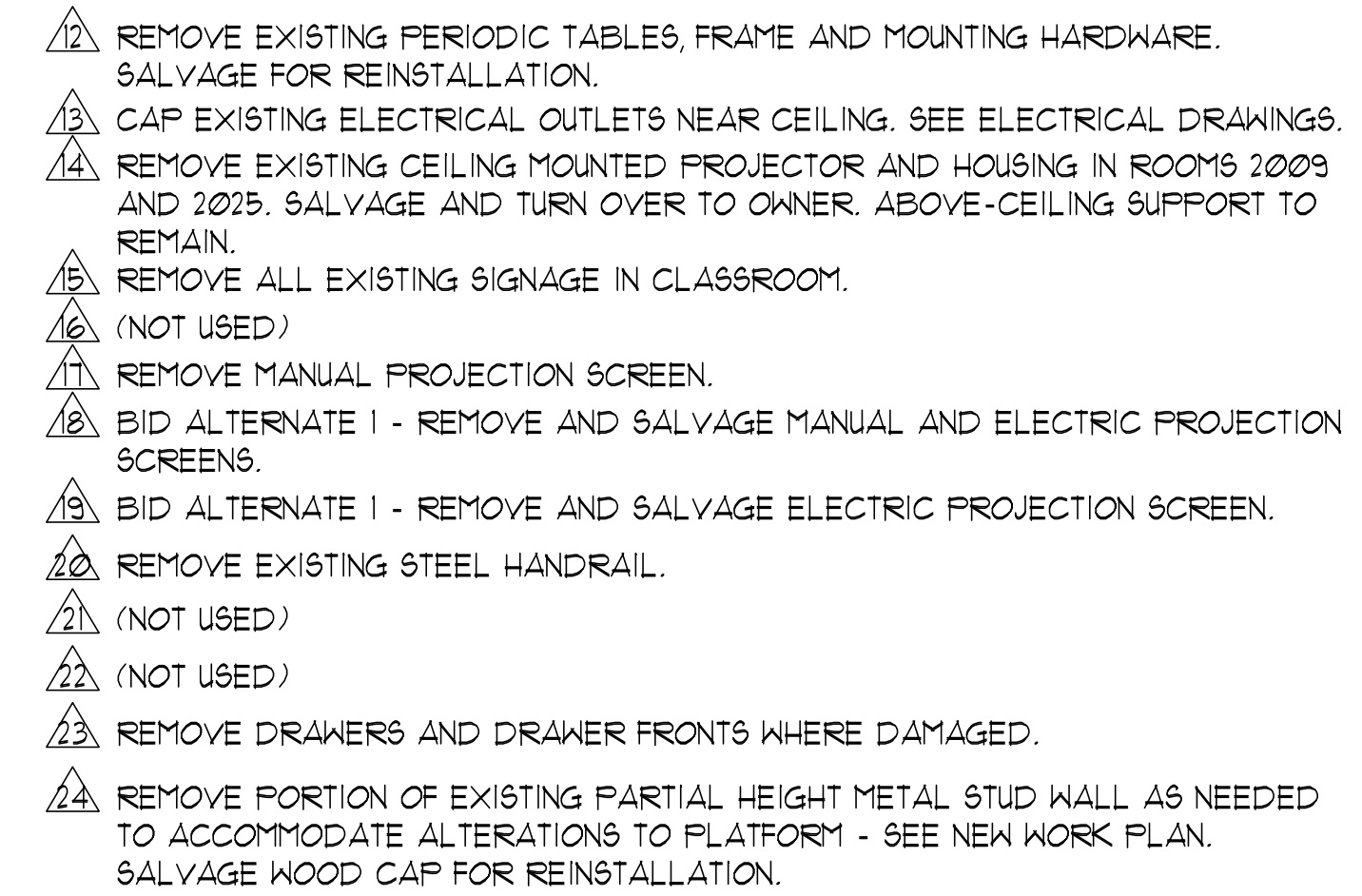
D. ALL WORK INDICATED WITH SOLID LINES IS EXISTING TO REMAIN, UNO.

E. REFER TO DRAWINGS FOR EXISTING BUILDING COMPONENTS TO BE REMOVED, SALVAGED, AND REUSED IN NEW WORK. THE CONTRACTOR IS RESPONSIBLE FOR ALL ITEMS TO BE SALVAGED AND RELOCATED, THROUGHOUT THE CONSTRUCTION PERIOD, INCLUDING SAFE STORAGE OF SAME. UPON DEMOLITION, THE OWNER SHALL RETAIN THOSE ITEMS DEEMED SALVAGEABLE. ITEMS NOT RETAINED SHALL BECOME THE PROPERTY OF THE CONTRACTOR, WHO SHALL LEGALLY DISPOSE OF SAME.

F. OWNER TO TEST ACOUSTICAL WALL PANELS FOR ACM.



1. REMOVE AND DISPOSE OF ALL EXISTING FIXED CHAIRS AND TABLES COMPLETE, EXCEPT FOR DEMONSTRATION STATION.
2. REMOVE EXISTING CARPET AND RESILIENT WALL BASE COMPLETE, INCLUDING ADHESIVES AND OTHER SUBSTANCES NECESSARY FOR NEW EPOXY FLOOR FINISH AND CARPET WHERE SCHEDULED.
3. REMOVE ALL EXISTING ACOUSTICAL WALL PANELS AND WOOD TRIM COMPLETE, INCLUDING ADHESIVES AND RESIDUE NECESSARY FOR NEW PAINTED WALL FINISH. ACOUSTICAL PANELS WILL BE SAMPLED FOR ACM BY OWNER.
4. REMOVE CLOCK AND SALVAGE FOR REINSTALLATION.
5. REMOVE RETURN AIR GRILL COVERS FOR CLEANING. SALVAGE FOR PAINTING AND REINSTALLATION. TYPICAL FOR ALL LOCATIONS.
6. REMOVE AND DISPOSE OF EXISTING COAT RACKS AND SHELVES COMPLETE.
7. REMOVE EXISTING PENCIL SHARPENERS AND SALVAGE FOR REINSTALLATION.
8. OWNER IS RESPONSIBLE FOR UNLOCKING AND TEMPORARY RELOCATION OF NETWORK PODIUM DURING CONSTRUCTION.
9. (NOT USED)
10. BID ALTERNATE ** - REMOVE CEILING PANELS AND GRID, GYPSUM BOARD CEILINGS LIGHTS, AND THE TWO PROJECTOR SCREENS.
11. (NOT USED)



DEMO PLAN GENERAL NOTES

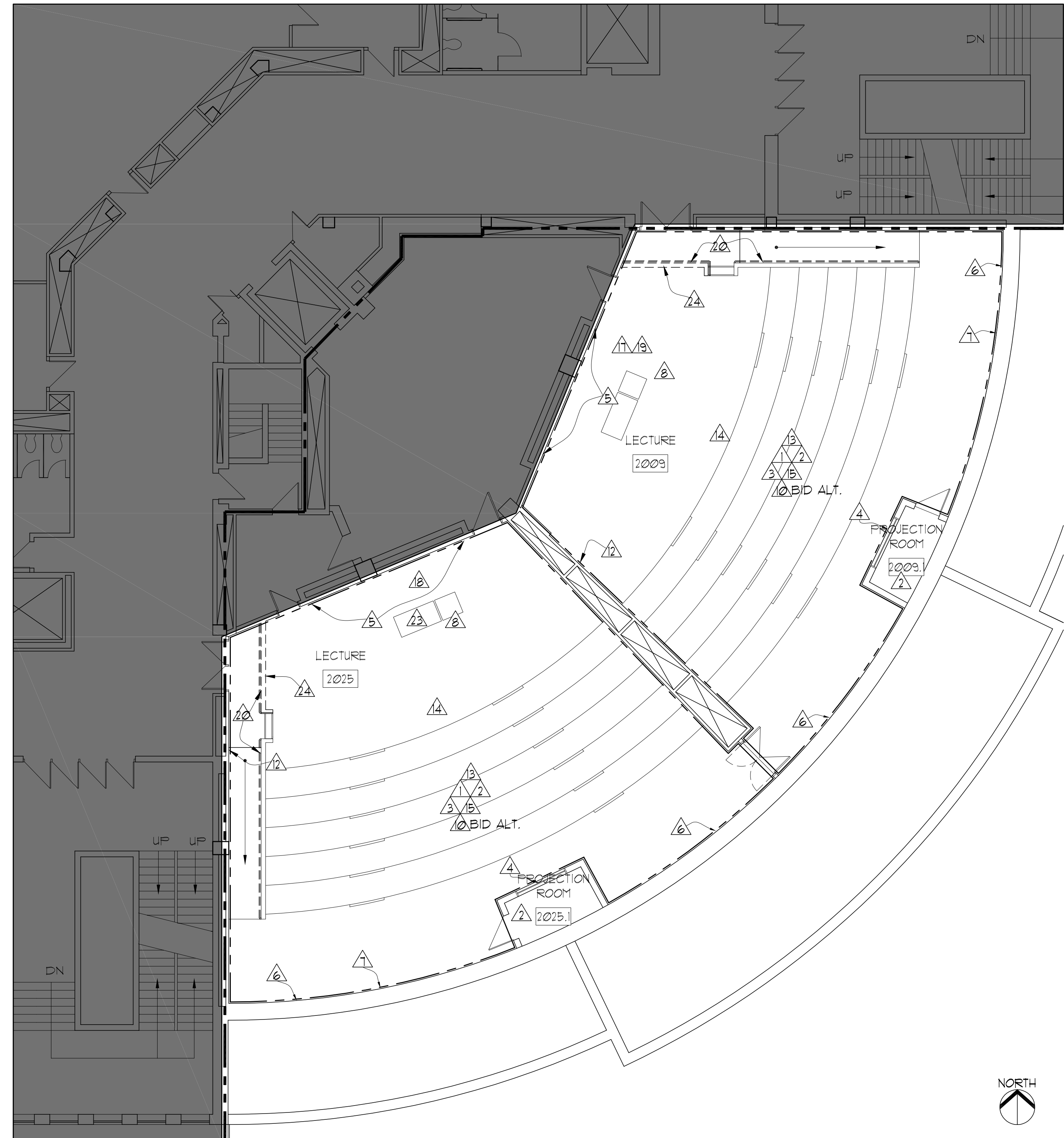
16

DEMO. PLAN LEGEND

17

DEMO PLAN KEYED NOTES

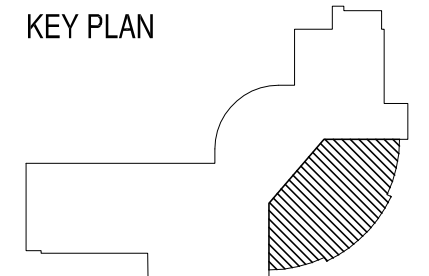
13



SECOND FLOOR DEMOLITION PLAN

SCALE: 1/8" = 1'-0"
REF'D FROM: G0.0

1

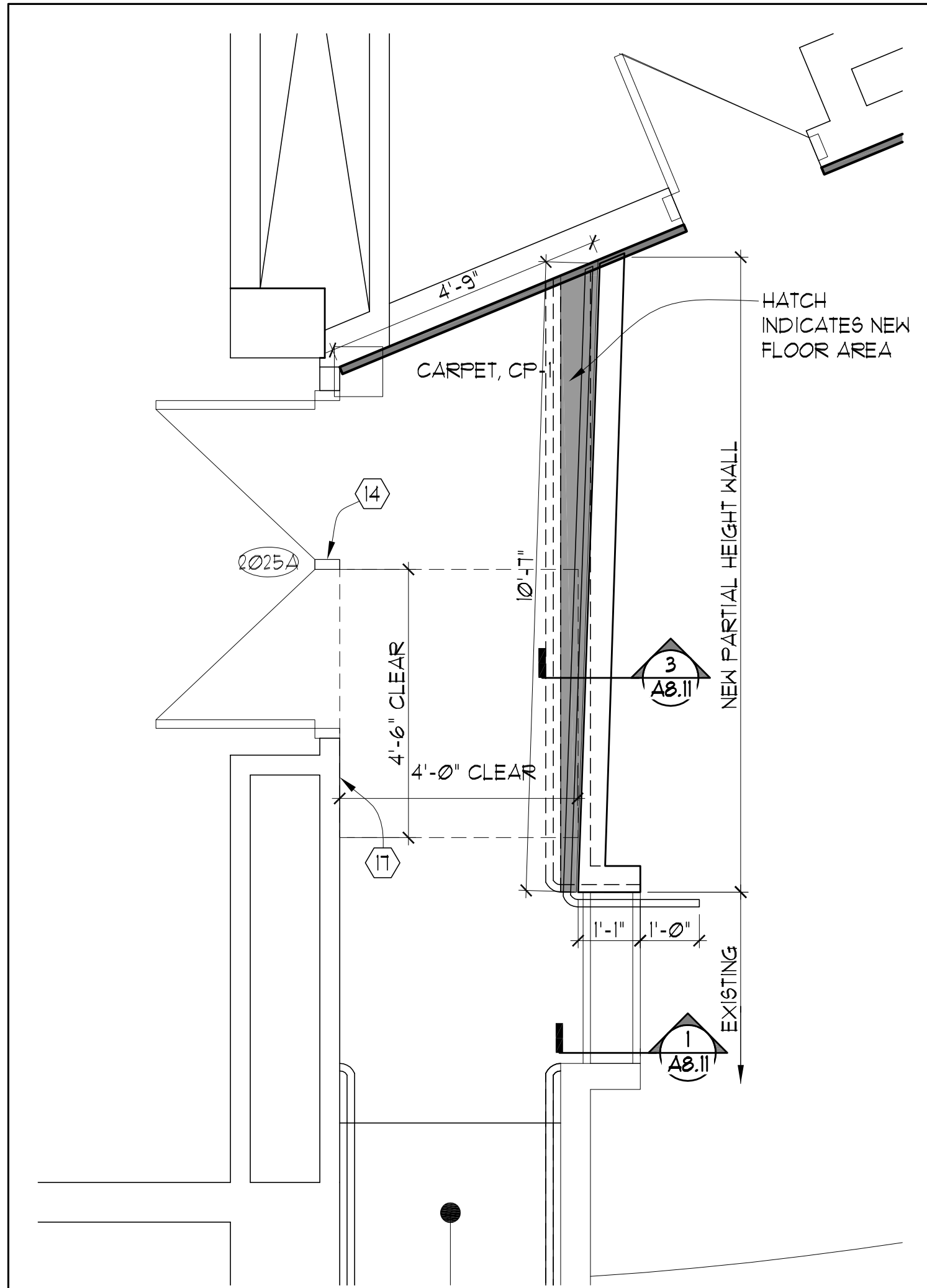


SECOND FLOOR DEMO PLAN



A1.11





11011 EP02
RM. 2025 ENLARGED PLAN
SCALE: 1/2"=1'-0"
REF'D FROM: T5
12

- NEW WORK PLAN KEYED NOTES:**
- PATCH AND REPAIR WALL AT ALL LOCATIONS WHERE SIGNAGE, COAT RACK, WIRE MOLD, PENCIL SHARPENER, AND WIRELESS ADAPTERS WERE REMOVED.
 - REFINISH EXISTING WOOD TOP CAP ON HALF WALL. LIGHTLY SAND AND PATCH WITH MATCHING WOOD FILLER. FINISH WITH CLEAR POLYURETHANE FINISH.
 - PATCH AND REPAIR WALL WHERE ACOUSTIC PANELS WERE REMOVED. PREP SURFACE TO RECEIVE NEW PAINT.
 - PATCH AND REPAIR CONCRETE ESPECIALLY WHERE FIXED CHAIRS AND TABLES WERE REMOVED TO RECEIVE NEW SEATING ANCHORS. PREP SUBSTRATE TO BE SMOOTH AND TO RECEIVE EPOXY COATING.
 - INSTALL NEW WALL MOUNTED PERFORATED METAL ACOUSTIC PANELS. REFER TO INTERIOR ELEVATIONS FOR LOCATION.
 - INSTALL CARPET AS SCHEDULED. CARPET TO CASCADE OVER RISER OF TOP TREAD WHERE APPLICABLE. SEE SHEET A8.11 FOR DETAIL.
 - INSTALL SALVAGED PERIODIC TABLE.
 - FIXED FURNITURE TO BE PURCHASED BY WAYNE STATE UNIVERSITY UNDER A SEPARATE CONTRACT. FURNITURE AND INSTALLATION BOUGHT BY OWNER UNDER SEPARATE CONTRACT WILL BE ASSIGNED TO THIS CONTRACT FOR INSTALLATION COORDINATION.
 - INSTALL WALL CLOCKS AT PREVIOUS LOCATION.
 - OWNER TO INSTALL AND SECURE NETWORK PODIUM. COORDINATE LOCATION WITH ELECTRICAL.
 - CLEAN RETURN AIR GRILL COVERS AND PAINT AS SCHEDULED. INSTALL IN PREVIOUS LOCATION, TYPICAL FOR ALL LOCATIONS. REVISE AS REQUIRED TO INSTALL IN NEW GYP BOARD ONCE REMOVED FROM ACOUSTIC PANELS. CLEAN GLASS OF VIEWING ROOMS AT PROJECT COMPLETION.
 - PROVIDE BLANK METAL PANEL PAINTED AS SCHEDULED WHERE DRAWERS WERE REMOVED.
 - EXISTING RATED DOOR TO REMAIN AND SERVICE AS FIRE SEPARATION DURING CONSTRUCTION.
 - CLEAN TOP OF DEMONSTRATION COUNTER. METAL BASE TO BE PREPPED AND PAINTED AS SCHEDULED.
 - RETURN HANDRAIL TO FLOOR.
 - INSTALL SIGNAGE. SEE DETAILS 4 AND 8 ON SHEET A8.11.
 - INSTALL 5/8" GYPSUM BOARD FURRING OVER EXISTING CMU. SEE INTERIOR ELEVATIONS FOR SPECIFIC LOCATION.
 - CLEAN EXISTING GLAZED BLOCK BASE.
 - CONSTRUCT 3 5/8" 20 GA. METAL STUD AND 5/8" GYPSUM BOARD BUILDOUT AROUND EXPOSED PIPING. EXTEND TO MINIMUM HEIGHT OF 24" AND CAP.
 - INSTALL GRIT STRIP, TR-1.
 - INSTALL CONTINUOUS 1 1/2" DIAMETER METAL HANDRAIL. MOUNT AT 34" A.F.F. TO CENTER AT 1 1/2" FROM WALL. SEE DETAIL 2/A8.11.
 - PROVIDE 5/8" GYPSUM BOARD PANEL TO COVER JOINTS BETWEEN EXISTING GYPSUM BOARD AND CMU, WITH PERIMETER J-BEAD AND FIRE-RESISTANT SEALANT, PAINT TO MATCH WALL.
 - (NOT USED)
 - (NOT USED)
 - INSTALL SALVAGED PENCIL SHARPENERS AT PREVIOUS LOCATION.

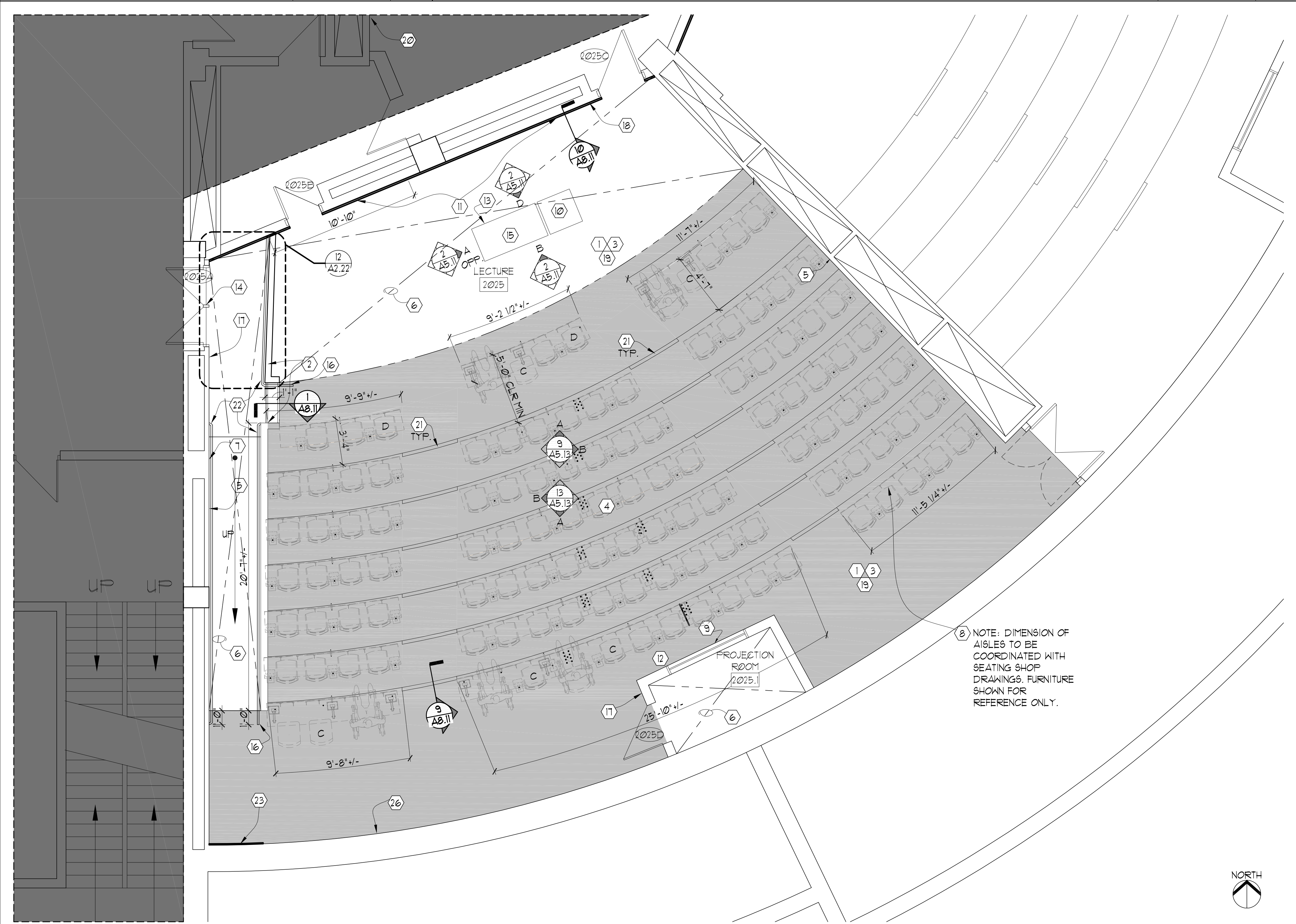
11011-FL-LEG
FLOOR PLAN KEYED NOTES
NO SCALE
REF'D FROM: T5
4

- | | | | | | |
|--|---------------|------------|---------------------|--|--|
| | EXISTING WALL | NAME [NO.] | EXISTING ROOM TAG | | EQUIPMENT BY OWNER. SHOWN FOR REFERENCE ONLY, N.I.C. |
| | NEW STUD WALL | NAME [NO.] | ROOM TAG | | DOOR MANEUVERING CLEARANCE |
| | EXISTING DOOR | MSI | PARTITION TAG | | FIXED SEAT |
| | NEW DOOR | | EPOXY FLOOR, EPXF-1 | | COMPANION SEAT |
| | KEYED NOTE | | WHEELCHAIR SPACE | | DESIGNATED AISLE SEAT |
| | DOOR TAG | | | | |

11011-FL-LEG
FLOOR PLAN LEGEND
NO SCALE
REF'D FROM: T5
15

- GENERAL FLOOR PLAN NOTES:**
- GENERAL FLOOR PLAN / PARTITION NOTES AND PARTITION TYPES APPLY TO ALL FLOOR PLANS AND ENLARGED FLOOR PLANS INCLUDED WITHIN THIS DOCUMENT SET.
 - COORDINATE THE PHASING AND SEQUENCING OF NEW CONSTRUCTION WITH ELECTRICAL DRAWINGS AND SPECIFICATIONS AND WITH CONSTRUCTION PHASING SEQUENCE AS INCLUDED WITHIN GENERAL DEMOLITION NOTES LOCATED ELSEWHERE.
 - ALL INTERIOR PARTITION DIMENSIONS ARE TO FINISH FACE, UNO.
 - MAINTAIN INTEGRITY OF ALL NEW OR EXISTING FIRE RATED PARTITIONS. REFER TO REFLECTED CEILING PLANS FOR FIRE RATED PARTITION LOCATIONS.
 - WHERE EXISTING SUBSTRATES ARE LOCATED WITHIN NEW FINISHED AREAS, OR PATCHING OF EXISTING SUBSTRATES WITHIN EXISTING ROOMS IS REQUIRED DUE TO WALL INFILL OR DEVICE REMOVAL, NEW FINISHES SHALL EXTEND TO NEAREST NATURAL BREAK OR TERMINATION FOR A CLEAN, UNBLEMISHED APPEARANCE AT THE END OF CONSTRUCTION. REFER TO ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR LOCATIONS OF INCIDENTAL ADDITIONAL FINISH WORK ASSOCIATED WITH RESTORATION OF EXISTING FINISHES WHERE ALTERED BY ARCHITECTURAL, MECHANICAL AND ELECTRICAL WORK.
 - SEE SHEET A2.41 FOR INTERIOR FINISH SCHEDULE AND KEY.
- G. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS PRIOR TO BEGINNING WORK OR SUPPLYING MATERIALS OR COMPONENTS. LAYOUT ALL WALLS PRIOR TO COMMENCEMENT OF FRAMING AND NOTIFY ARCHITECT FOR DISPOSITION OF MAJOR DIMENSIONAL CONFLICTS.

11011-FL-LEG
FLOOR PLAN GENERAL NOTES
NO SCALE
REF'D FROM: T5
13



11011 FF02
SECOND FLOOR - RM. 2025 - NEW WORK PLAN
SCALE: 1/4"=1'-0"
REF'D FROM: G001
1

WSU PROJECT NUMBER
005-226260

KEY PLAN

PROJECT NUMBER
12089

ISSUE	
For Bids	02.01.13
95% CD Review	12.20.12

DRN: EJV CHK'D: JKC

WAYNE STATE UNIVERSITY
SCIENCE HALL

Lecture Room Upgrades - 2nd Floor

SECOND FLOOR - ROOM 2025
- NEW WORK FURNITURE
AND FINISH PLAN

210 East Huron St.
Ann Arbor, MI 48104
734.663.1910 T
734.663.8427 F
www.a3c.com

COLLABORATIVE ARCHITECTURE

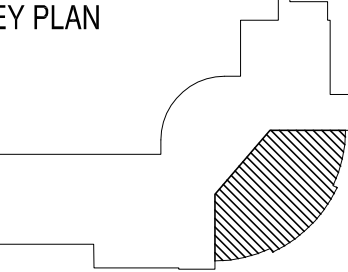
SHEET
A2.22



WSU PROJECT NUMBER

005-226260

KEY PLAN



TAG	ROOM NAME	FLOOR					BASE		WALLS					CEILING			KEYED NOTES	TAG
		1	2	3	4	5	1	2	NORTH	EAST	SOUTH	WEST	1	2	3			
2009	LECTURE	EPXF-1	CP-1	--	--	--	EXT	RB-1	PT-2	PT-2, 5	PT-2	PT-2, 4	EXT	PT-2	--	1,2,3,4,5,6,7,8	2009	
2009.1	PROJECTION ROOM	CP-1	--	--	--	--	RB-1	--	EXT	EXT	EXT	EXT	EXT	--	--	--	2009.1	
2025	LECTURE	EPXF-1	CP-1	--	--	--	EXT	RB-1	PT-2, 4	PT-2	PT-2, 5	PT-2	EXT	PT-2	--	1,2,3,4,5,6,7,8	2025	
2025.1	PROJECTION ROOM	CP-1	--	--	--	--	RB-1	--	EXT	EXT	EXT	EXT	EXT	--	--	--	2025.1	

ROOM FINISH SCHEDULE GENERAL NOTES:

A. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE DIRECTION OF APPLICATION FOR ALL DIRECTIONAL FINISHES.

B. SEE INTERIOR ELEVATIONS AND FLOOR PLANS FOR FINISH APPLICATION.

C. FLOORING CONTRACTOR TO COORDINATE FINAL FURNITURE LOCATIONS BEFORE INSTALLATION WITH FURNITURE VENDOR AND ARCHITECT.

D. EXT: EXISTING TO REMAIN

E. PAINT EXPOSED CONDUIT AND SURFACE RACEWAYS TO MATCH ADJACENT WALL.

ROOM FINISH SCHEDULE KEYED NOTES:

1. PAINT EXISTING AND NEW HANDRAILS AND GUARDRAILS PT-3B.
2. PAINT EXISTING DEMONSTRATION COUNTER BASE PT-5. SEE ELEVATIONS.
3. PAINT MECHANICAL GRILLE COVERS TO MATCH WALL WHERE SHOWN ON ELEVATIONS.
4. REFINISHED WOOD TOP CAP TO RECEIVE CLEAR POLYURETHANE FINISH.
5. PAINT GYPSUM BOARD CEILING SOFFITS PT-1 AS PART OF BASE BID.
6. INSTALL ACG-1 AND ACT-1 CEILING IF BID ALTERNATE 1 IS ACCEPTED.
7. INSTALL RB-1 ON GYPSUM BOARD WALLS ONLY.
8. PATCH ALL HOLES IN EXISTING WALLS PRIOR TO PAINTING.

11011 RFS

ROOM FINISH SCHEDULE	NO SCALE	9
	REF'D FROM: A2.22	

TAG	ROOM NAME	DOOR						SIDELITE	FRAME		THRESHOLD	LABEL	HARDWARE SET	ELEVATION DOOR / FRAME	DETAIL			KEYED NOTES	TAG
		SIZE (WxH)	THICKNESS	MATERIAL	FINISH	CORE	GLASS		MATERIAL	FINISH					HEAD	JAMB	THRESHOLD		
2009A	LECTURE	FR 3'0" X 1'0"		EXT	PT-4		EXT	--	EXT	PT-3B	--	--	EXT	--	--	--	--	--	2009A
2009B	LECTURE	3'0" X 1'0"		EXT	PT-4		--	--	EXT	PT-3B	--	--	05	--	--	--	--	--	2009B
2009C	LECTURE	FR 3'0" X 1'0"		EXT	EXT, PT-4		EXT	--	EXT	EXT, PT-3B	--	--	02	--	--	--	--	1	2009C
2009D	LECTURE	3'0" X 1'0"		EXT	PT-4		--	--	EXT		--	--	EXT	--	--	--	--	--	2009D
2025A	LECTURE	FR 3'0" X 1'0"		EXT	EXT, PT-4		EXT	--	EXT	EXT, PT-3B	--	--	02	--	--	--	--	1	2025A
2025B	LECTURE	3'0" X 1'0"		EXT	PT-4		EXT	--	EXT	PT-3B	--	--	05	--	--	--	--	--	2025B
2025C	LECTURE	3'0" X 1'0"		EXT	PT-4		--	--	EXT	PT-3B	--	--	05	--	--	--	--	--	2025C
2025D	LECTURE	3'0" X 1'0"		EXT	PT-4		--	--	EXT	PT-3B	--	--	EXT	--	--	--	--	--	2025D

DOOR SCHEDULE GENERAL NOTES:

A. ALL DOOR HARDWARE SHALL MEET AMERICAN WITH DISABILITIES ACT (ADA) AND MICHIGAN BUILDING CODE REQUIREMENTS.
B. REFER TO PROJECT MANUAL FOR HARDWARE SETS.
C. EXT= EXISTING TO REMAIN.
D. CLEAN ALL EXISTING DOOR KICKPLATES TO REMAIN.
E. PAINT BOTH SIDES OF ALL FRAMES AND DOORS U.O.N.
F. HOLD \$2000 FOR OWNERS HARDWARE MAINTENANCE ALLOWANCE WITHIN BASE BID.

DOOR SCHEDULE KEYED NOTES:

1. PAINT LECTURE ROOM SIDE OF DOORS AND FRAMES PT-3B. PAINT CORRIDOR SIDE OF DOORS AND FRAMES TO MATCH EXISTING.

CODE	MATERIAL	MANUFACTURER	STYLE	COLOR	SIZE	MANUFACTURER'S CODE	NOTES
ACG-1	ACOUSTIC CEILING GRID	USG	DOWN DX/DXL	WHITE	15/16"	--	USED IN ALT #1
ACT-1	ACOUSTIC CEILING TILE	USG	FROST CLIMA PLUS	WHITE	24"x24"	418	USED IN ALT #1
CP-1	CARPET	SHAW CONTRACT	EVOLVE	GLOW WITH FLAIR	12"W	60561-56235	RAMP6 AND FRONT TO FRONT OF SEATING
EPXF-1	EPOXY FLOOR	PPG	AQUAPON WB 98-1 SERIES	SANDSTONE	6 MIL TH.	--	--
FT-3	FLOOR TRANSITION	JOHNSONITE	QUARTER ROUND	BLACK	1/2" X 1/2"	QTR-40-A	WHERE CARPET RISER MEETS EPXF-1. SEE DETAIL ON SHEET A8.11.
MAP-1	METAL ACOUSTIC PANELS	ALPRO	ACOUST-X	ASTII SATIN	30"X30"	FDR-20811	SEE ELEVATIONS
PT-1	PAINT	SHERWIN WILLIAMS	FLAT	ALABASTER	--	SW1008	CEILING PAINT, USED IN ALT #1
PT-2	PAINT	SHERWIN WILLIAMS	SATIN	NAVJO WHITE	--	SW6126	GENERAL PAINT
PT-3A	PAINT	SHERWIN WILLIAMS	SATIN	PORTABELLO	--	SW6102	WOOD TRIM PAINT
PT-3B	PAINT	SHERWIN WILLIAMS	SEMI-GLOSS	PORTABELLO	--	SW6102	WOOD TRIM PAINT
PT-4	PAINT	SHERWIN WILLIAMS	SATIN	STONEBRIAR	--	SW7693	LECTURE HALL FRONT WALL AND RAMP WALLS, LOUNGE CORRIDOR WALL
PT-5	PAINT	SHERWIN WILLIAMS	SATIN	GINGERY	--	SW6363	LECTURE HALL BACK WALL ACCENT
RB-1	RESILIENT BASE	JOHNSONITE	COVE	BLACK	4"H	DC	LECTURE HALLS
TR-1	TREAD - GRIT	FLEX - TREAD	46 GRIT	FLAT BLACK MEDIUM	3/4"	--	INSTALL IN ROOMS 2009 AND 2025 EVERY 6", SEE PLANS.

11011 RFK

DOOR SCHEDULE	NO SCALE	3
	REF'D FROM: A1.11-2.22	

ROOM FINISH KEY	NO SCALE	1
	REF'D FROM: A2.11-2.22	

PROJECT NUMBER 12089

For Bids	02.01.13
95% CD Review	12.20.12
IN: EJW	CHKD: JKC

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DOOR SCHEDULE AND BOOM FINISH SCHEDULE AND KEY



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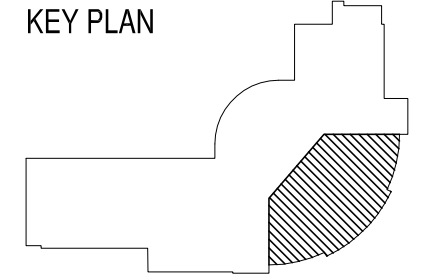
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DOOR SCHEDULE	NO SCALE	3
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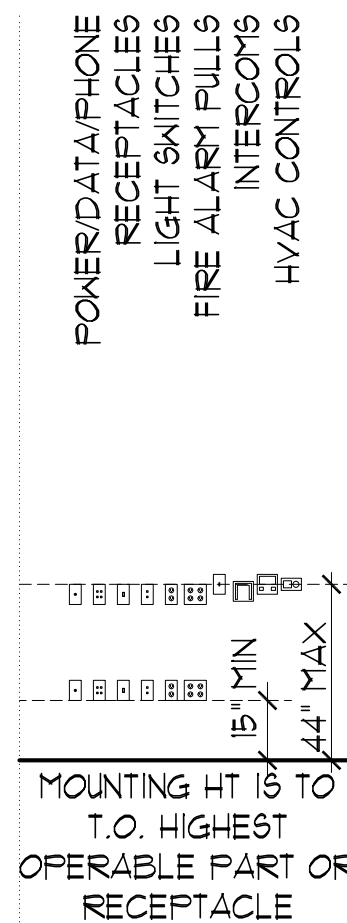
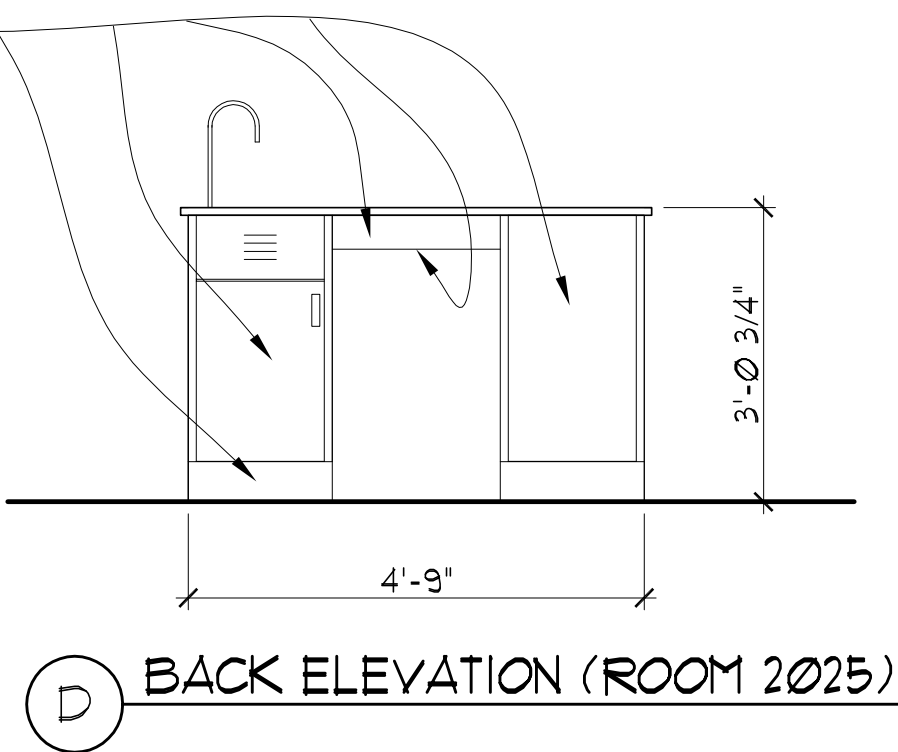
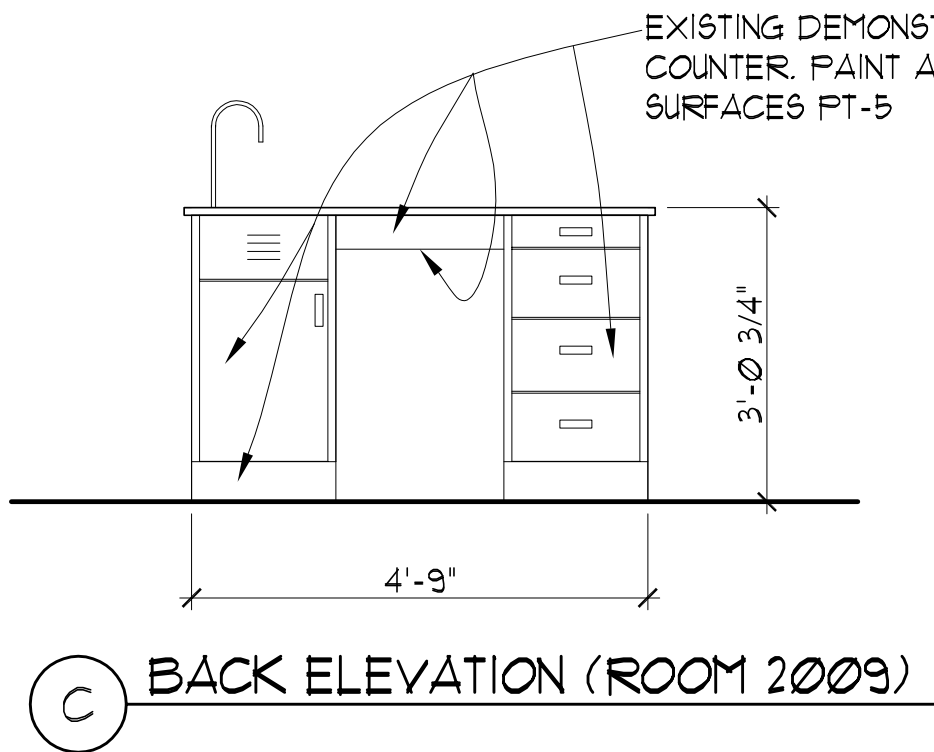
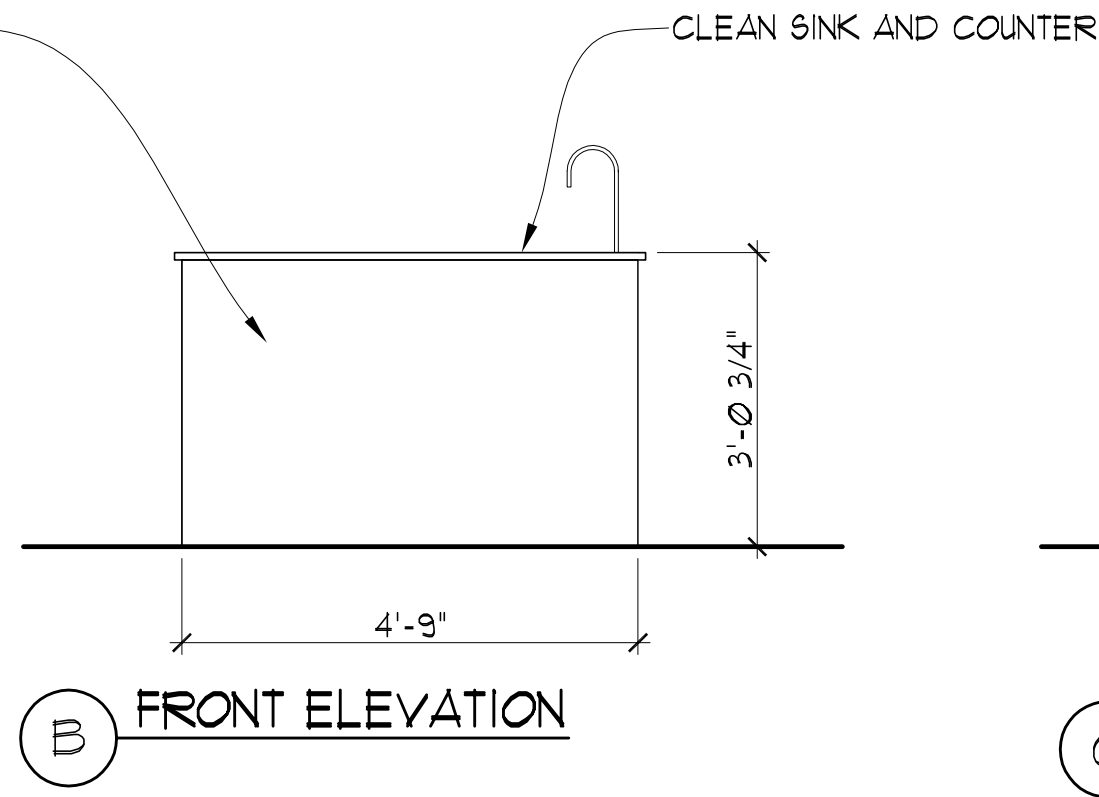
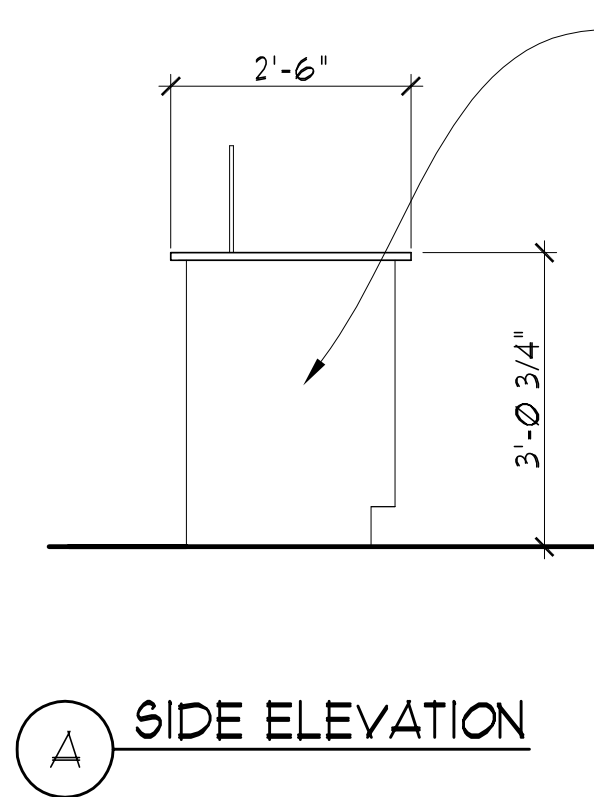
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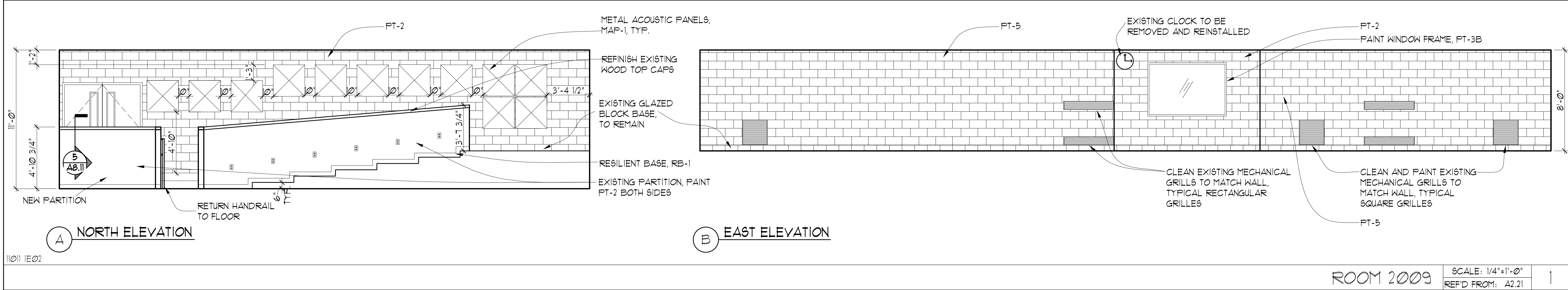
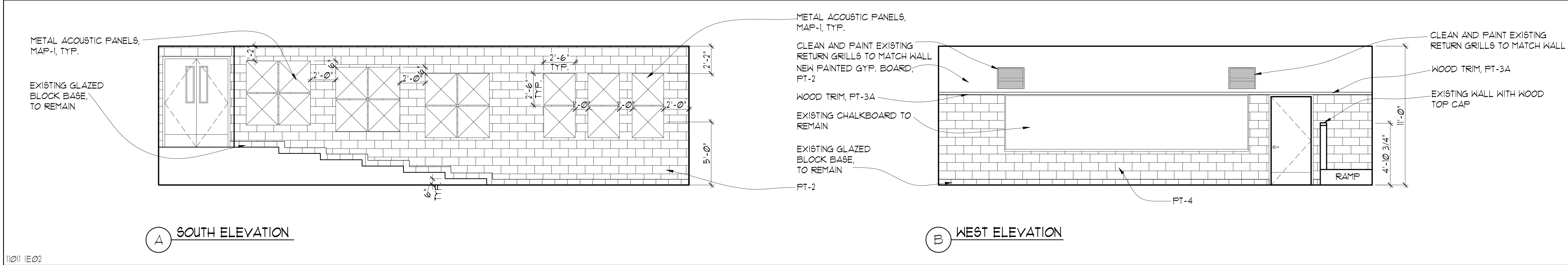
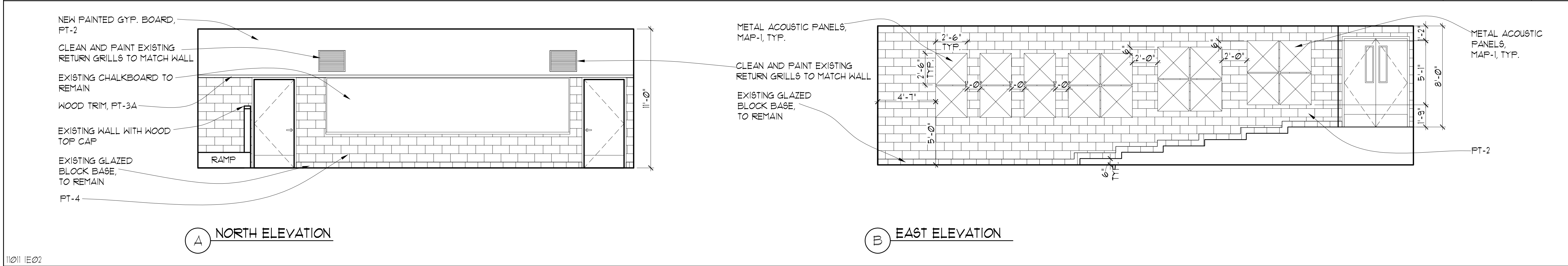
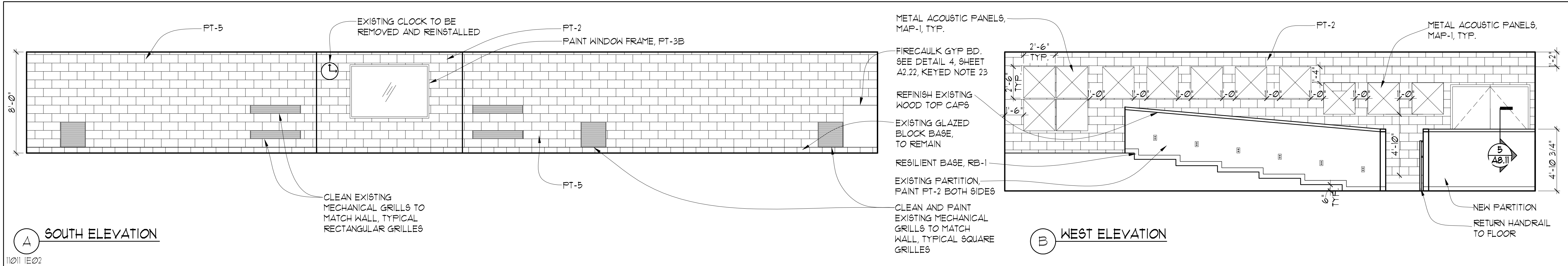
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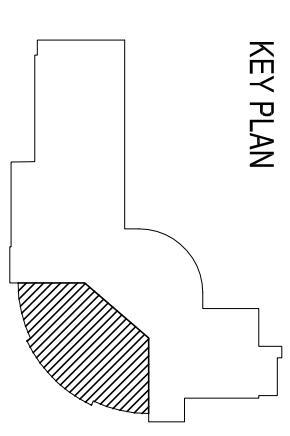
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	95% CD Review	12.20.12
DRN: EJV CHK'D: JKC		





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005-226260

PROJECT NUMBER	12089
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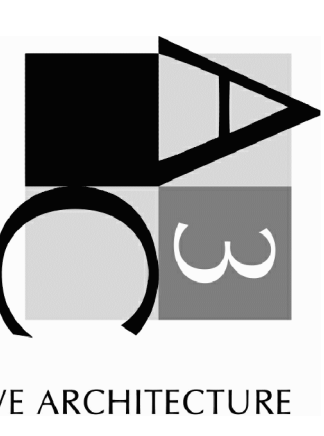
ISSUE		
For Bids	02.01.14	
95% CD Review	12.20.14	
PRN: EJV	CHKD: JKC	

WAYNE STATE UNIVERSITY

SCIENCE HALL

Lecture Room Upgrades - 2nd Floor

INTERIOR DETAILS



G:\2012\2012-0383-00\Cad\2012-0383-00-EO-EO-IND.dwg, E001, 2/1/2013 10:49:48 AM, Kyle Trajkovski, Peter Basso Associates Inc.

ELECTRICAL ABBREVIATION LIST

ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION
A	AMPERES	MAX	MAXIMUM
AF	AMPERES FRAME (BREAKER RATING)	MCB	MAIN CIRCUIT BREAKER
A.F.F.	ABOVE FINISH FLOOR	MCC	MOTOR CONTROL CENTER
AIC	AMPS INTERRUPTING CAPACITY	MDP	MAIN DISTRIBUTION PANEL
AL	AUDIENCE LEFT	MECH	MECHANICAL
AR	AUDIENCE RIGHT	MIN	MINIMUM
AT	AMPERES TRIP (BREAKER SETTING)	MISC.	MISCELLANEOUS
ATS	AUTOMATIC TRANSFER SWITCH	MLO	MAIN LUGS ONLY
AUX	AUXILIARY	MTD	MOUNTED
BKR	BREAKER	MTG	MOUNTING
BPS	BOLTED PRESSURE SWITCH	MTR	MOTOR
C	CONDUIT	N	NEUTRAL
CB	CIRCUIT BREAKER	NC	NORMALLY CLOSED
CKT	CIRCUIT	NEC	NATIONAL ELECTRICAL CODE
CT	CURRENT TRANSFORMER	NF	NON-FUSIBLE
DEMO	DEMOLITION	NIC	NOT IN CONTRACT
DIM	DIMENSION	NL	NIGHT LIGHT
DISC	DISCONNECT	NO	NORMALLY OPEN
DP	DISTRIBUTION PANEL	NTS	NOT TO SCALE
DS	DOWNSTAGE	OC	ON CENTER
DWG	DRAWING	P	POLE
EBU	EMERGENCY BATTERY UNIT	PB	PUSHBUTTON STATION
EC	ELECTRICAL CONTRACTOR	PH	PHASE
ELEC	ELECTRICAL	PT	POTENTIAL TRANSFORMER
EM/ EMERG	EMERGENCY	PDP	POWER DISTRIBUTION PANEL
EMT	ELECTRICAL METALLIC TUBING	RECEPT.	RECEPTACLE
EO	ELECTRICALLY OPERATED	RDP	RECEPTACLE DISTRIBUTION PANEL
EWC	ELECTRIC WATER COOLER	RP	RECEPTACLE PANEL
EXIST	EXISTING	RSC	RIGID STEEL CONDUIT
FA	FIRE ALARM	SCHD	SCHEDULE
FLA	FULL LOAD AMPS	SW	SWITCH
FLR	FLOOR	SWBD	SWITCHBOARD
FOH	FRONT OF HOUSE	SWGR	SWITCHGEAR
FU	FUSE	TB	TERMINAL BOX
G/GRD/EG	GROUND	TELECOM	TELECOMMUNICATIONS
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	TP	TAMPER PROOF
HOA	HAND-OFF-AUTO	TTB	TELEPHONE TERMINAL BACKBOARD
HP	HORSEPOWER	TYP	TYPICAL
HV	HIGH VOLTAGE	U.O.N.	UNLESS OTHERWISE NOTED
HZ	HERTZ	US	UPSTAGE
IG	ISOLATED GROUND	V	VOLTS
JB	JUNCTION BOX	W	WIRE
KV	KILOVOLT	WP	WEATHERPROOF
KVA	KILOVOLT - AMPERES	XFMR	TRANSFORMER
KW	KILOWATT	XP	EXPLOSION PROOF
KWH	KILOWATT - HOURS	(E)	EXISTING
LA	LIGHTNING ARRESTOR	(R)	RELOCATED
LP	LIGHTING PANEL		
LDP	LIGHTING DISTRIBUTION PANEL		

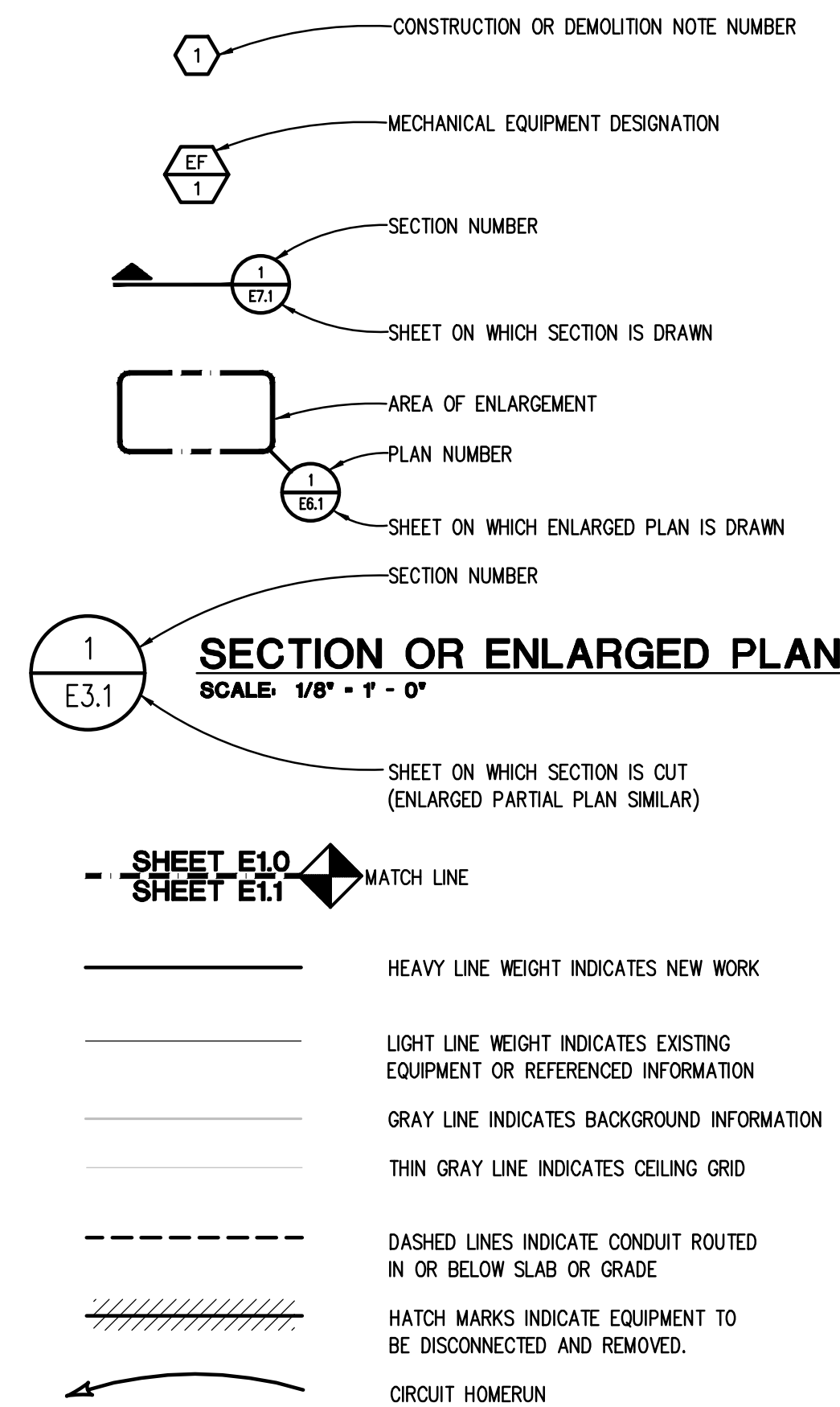
ELECTRICAL SYMBOL LIST

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
FA	FIXTURE TYPE		MOTOR CONTROL CENTER
	LIGHTING FIXTURE		TRANSFORMER
	DIRECT/INDIRECT LIGHTING FIXTURE		DISTRIBUTION PANEL
	EMERGENCY FIXTURE		POKE THRU SERVICE FITTING "X" INDICATES TYPE
	NIGHT LIGHTING FIXTURE		FLOOR BOX SERVICE FITTING "X" INDICATES TYPE
	LIGHTING FIXTURE		ACCESS FLOOR SERVICE FITTING "X" INDICATES TYPE
	EMERGENCY FIXTURE		CORD REEL "X" INDICATES TYPE
	WALL MOUNTED LIGHTING FIXTURE		REMOTE GENERATOR ANNUNCIATOR PANEL
	LIGHTING FIXTURE		AUTOMATIC TRANSFER SWITCH
	EMERGENCY FIXTURE		UN-INTERRUPTABLE POWER SUPPLY
	DIRECTIONAL LIGHTING FIXTURE		VARIABLE FREQUENCY/ CONTROLLER.
	PENDANT LIGHTING FIXTURE		CONTROL PANEL
	WALL SCONCE		MOTOR
	LIGHTING TRACK		MANUAL CONTROLLER
	TRACK LIGHTING FIXTURE		MAGNETIC CONTROLLER
	EMERGENCY LIGHTING UNIT		COMBINATION MAGNETIC CONTROLLER
	POLE MOUNTED LIGHTING FIXTURE		NON-FUSIBLE DISCONNECT SWITCH
	POLE MOUNTED LIGHTING FIXTURE - POST TOP		FUSIBLE DISCONNECT SWITCH
	BOLLARD LIGHTING FIXTURE		ENCLOSED CIRCUIT BREAKER
	EXIT LIGHTING FIXTURE WITH DIRECTIONAL ARROWS (SHADED AREA INDICATES FACE)		PUSH BUTTON STATION
	EXIT LIGHTING FIXTURE WITH DIRECTIONAL ARROWS (SHADED AREA INDICATES FACE)		JUNCTION BOX
	EXIT LIGHTING FIXTURE WITH DIRECTIONAL ARROWS (SHADED AREA INDICATES FACE)		HARD WIRE POWER CONNECTION
	EXIT LIGHTING FIXTURE - WALL MOUNTED		AUTOMATIC DOOR CONTROLLER
	SINGLE POLE TOGGLE SWITCH		AUTOMATIC DOOR PUSH PAD OPERATOR
	TWO POLE TOGGLE SWITCH		GROUND ROD
	3 WAY TOGGLE SWITCH		GROUND CONNECTION
	4 WAY TOGGLE SWITCH		CONDUIT SLEEVE WITH BUSHINGS LENGTH AS REQUIRED "X" INDICATES CONDUIT SIZE
	KEY OPERATED SWITCH		CONDUIT UP
	3 WAY KEY OPERATED SWITCH		CONDUIT DOWN
	4 WAY KEY OPERATED SWITCH		EMPTY BOX FOR FUTURE TELECOMMUNICATION OUTLET
	DIMMER SWITCH		EMPTY BOX FOR FUTURE TELECOMMUNICATION OUTLET MOUNTED 8" ABOVE COUNTERTOP
	3 WAY DIMMER SWITCH		EMPTY BOX FOR FUTURE CEILING MOUNTED TELECOMMUNICATION OUTLET
	PILOT SWITCH		TELECOMMUNICATION OUTLET "X" INDICATES TYPE
	DUAL SWITCHING FOR INNER/OUTER LAMPS OF FLUORESCENT LIGHT FIXTURES		TELECOMMUNICATION OUTLET MOUNTED 8" ABOVE COUNTERTOP "X" INDICATES TYPE
	3-WAY DUAL SWITCHING FOR INNER/OUTER LAMPS OF FLUORESCENT LIGHT FIXTURES		TELECOMMUNICATION CEILING MOUNTED OUTLET "X" INDICATES TYPE
	4-WAY DUAL SWITCHING FOR INNER/OUTER LAMPS OF FLUORESCENT LIGHT FIXTURES		TELECOMMUNICATION BACKBOARD
	DIGITAL TIME SWITCH		INTERCOM OUTLET
	LOW VOLTAGE SWITCH		SPEAKER
	OCCUPANCY SENSOR - REFER TO ELECTRICAL STANDARD SCHEDULES		SPEAKER - WALL MOUNTED
	OCCUPANCY SENSOR - REFER TO ELECTRICAL STANDARD SCHEDULES		MICROPHONE
	OCCUPANCY SENSOR - REFER TO ELECTRICAL STANDARD SCHEDULES - "X" INDICATES TYPE		VOLUME CONTROL
	LOW VOLTAGE CONTROL STATION "X" INDICATES TYPE		SIGNALING BELL
	EMERGENCY LOAD TRANSFER DEVICE		SINGLE FACE CLOCK - CEILING MOUNTED
	TIME CLOCK		SINGLE FACE CLOCK - WALL MOUNTED
	CONTACTOR		DOUBLE FACE CLOCK - CEILING MOUNTED
	PHOTOCELL		DOUBLE FACE COMBINATION CLOCK/SPEAKER CEILING MOUNTED
	TWIST TIMER		DOUBLE FACE CLOCK - WALL MOUNTED
	SINGLE RECEPTACLE		DOUBLE FACE COMBINATION CLOCK/SPEAKER WALL MOUNTED
	DUPLEX RECEPTACLE		SECURITY CAMERA
	QUAD RECEPTACLE		MOTION DETECTOR
	DUPLEX RECEPTACLE MOUNTED 8" ABOVE COUNTER TOP (UNLESS NOTED OTHERWISE) (SIMILAR FOR ISOLATED GROUND, EMERGENCY AND GF RECEPTACLES)		SECURITY KEY SWITCH
	DUPLEX RECEPTACLE-GROUND FAULT CIRCUIT INTERRUPTER		DOOR CONTACT
	DUPLEX EMERGENCY RECEPTACLE		KEY PAD
	DUPLEX ISOLATED GROUND RECEPTACLE WITH DEDICATED NEUTRAL CONDUCTOR		ACCESS CONTROL STATION
	QUAD ISOLATED GROUND RECEPTACLE WITH DEDICATED NEUTRAL CONDUCTOR		CIRCUIT BREAKER
	CEILING MOUNTED DUPLEX RECEPTACLE		DRAWOUT CIRCUIT BREAKER MANUALLY OPERATED
	SPECIAL RECEPTACLE - REFER TO ELECTRICAL STANDARD SCHEDULES		DRAWOUT CIRCUIT BREAKER ELECTRICALLY OPERATED
	MULTI-OUTLET RACEWAY		
	BRANCH CIRCUIT PANELBOARD		

ELECTRICAL DRAWING INDEX

SHEET NO.	SHEET TITLE
E0.01	ELECTRICAL STANDARDS AND DRAWING INDEX
E0.02	ELECTRICAL SCHEDULES, DETAILS, AND DIAGRAMS
E1.02	PARTIAL SECOND FLOOR ELECTRICAL DEMOLITION PLAN
E2.02	SECOND FLOOR ELECTRICAL NEW WORK PLAN - BASE BID
E2.02A	SECOND FLOOR ELECTRICAL NEW WORK PLAN - ALTERNATE

STANDARD METHODS OF NOTATION



STANDARD MOUNTING HEIGHTS

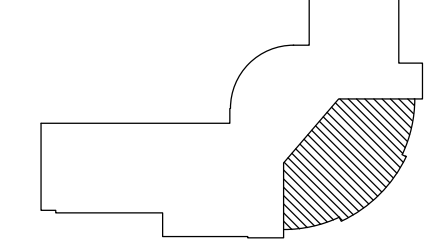
CONVENIENCE AND SPECIAL PURPOSE RECEPTACLE OUTLETS AND TELECOMMUNICATION OUTLETS.	16" A.F.F. TO BOTTOM OF BOX, U.O.N.
LIGHT SWITCHES, MOTOR CONTROL DEVICES AND MANUAL FIRE ALARM BOXES.	48" A.F.F. TO TOP OF BOX, U.O.N.
FIRE ALARM HORNS, SPEAKERS, STROBES AND COMBINATION DEVICES.	96" A.F.F. OR 6" BELOW CEILING, WHICHEVER IS LESS, U.O.N.
GF RECEPTACLES IN TOILET ROOMS AND JANITOR CLOSETS.	48" A.F.F. TO TOP OF BOX, U.O.N.
BRANCH CIRCUIT PANELBOARDS AND LIGHTING CONTROLLERS.	6'-6" A.F.F. TO TOP OF ENCLOSURE, U.O.N.
CLOCKS AND SPEAKERS	COORDINATE MOUNTING HEIGHTS WITH ARCHITECT

NOTE: SOME SYMBOLS AND ABBREVIATIONS SHOWN MAY NOT APPLY TO THIS PROJECT.



WSU PROJECT NUMBER
005-226260

KEY PLAN



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PROJECT NUMBER
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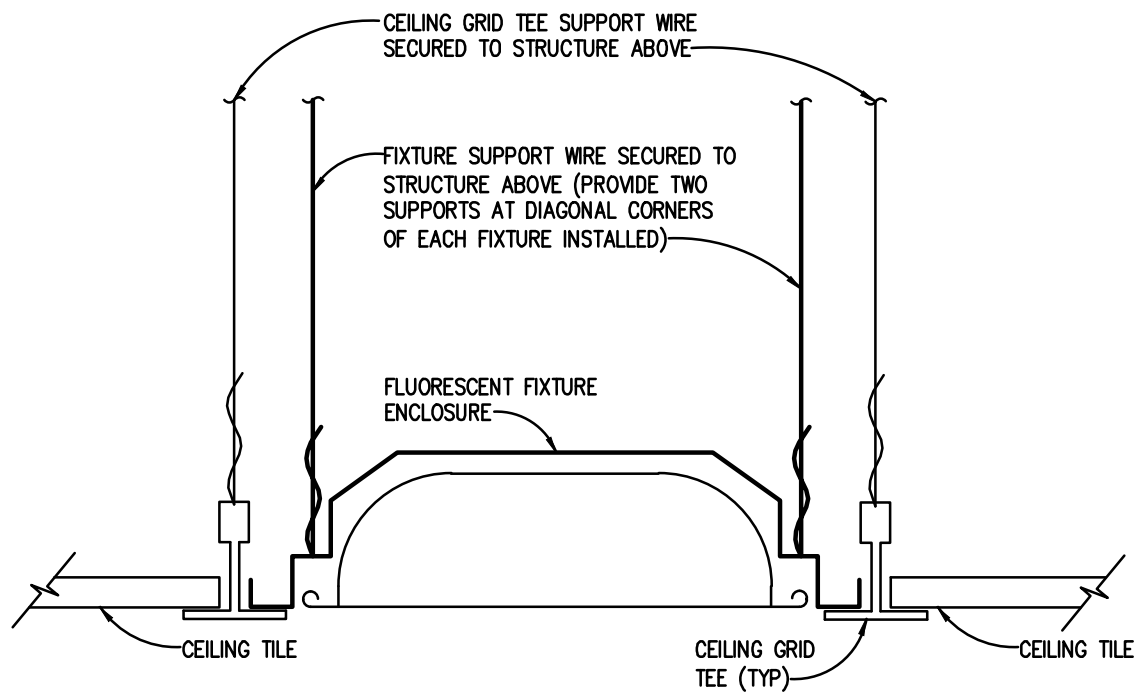
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BIDS		02.01.13
95% CD REVIEW		12.20.12
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ELECTRICAL STANDARDS AND DRAWING INDEX

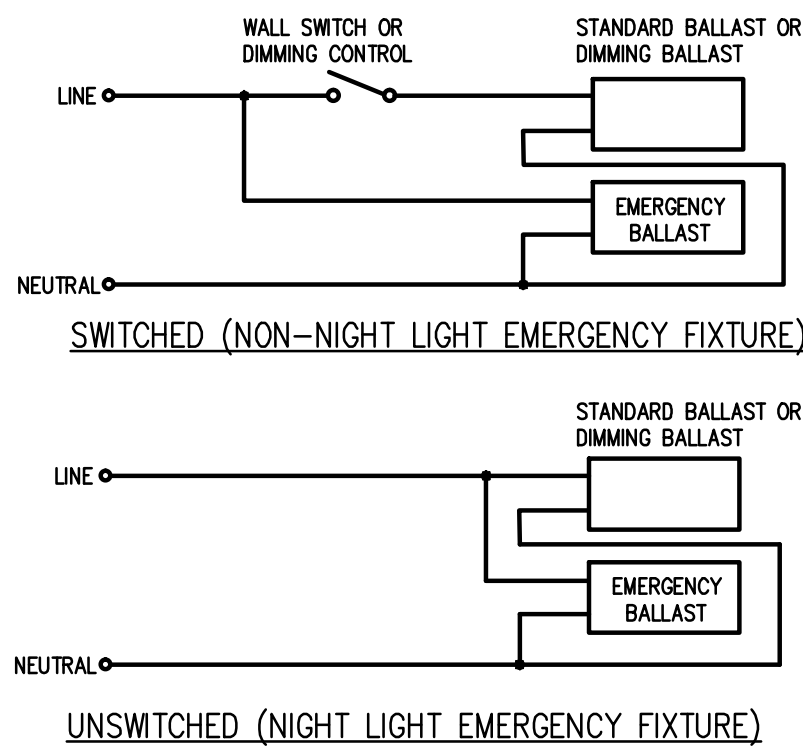
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COLLABORATIVE ARCHITECTURE

SHEET

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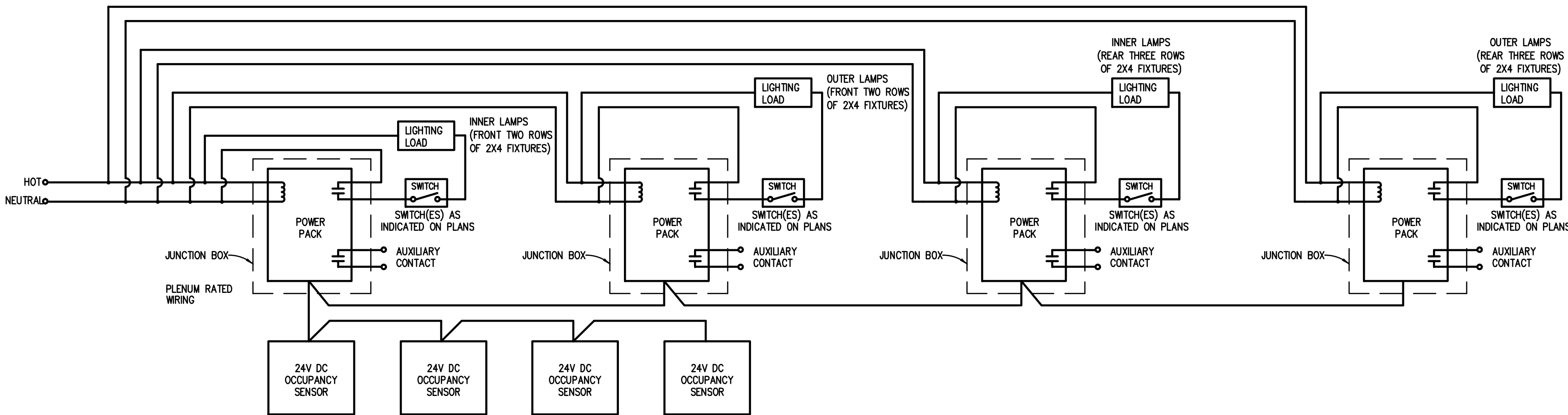


**RECESSED FLUORESCENT
FIXTURE INSTALLATION DETAIL**
NO SCALE



NOTE: PRIMARY CIRCUIT ONLY. LAMP LEADS NOT SHOWN.

EMERGENCY BALLAST DIAGRAM
NO SCALE



**CEILING MOUNTED OCCUPANCY SENSOR
WIRING DIAGRAM (DUAL SWITCHING)**
NO SCALE

NOTES:
1. PROVIDE POWER PACKS AND SLAVE PACKS AS REQUIRED FOR SWITCHING AS INDICATED ON PLAN. REVISE DETAIL AS REQUIRED BY MANUFACTURER

FEEDER AND BRANCH CIRCUIT SIZING SCHEDULE - GENERAL PURPOSE							
COPPER CONDUCTORS							
OVERCURRENT DEVICE RATING (AMPERES)	WIRE SIZE (AWG OR KCMIL)		CONDUIT SIZE				
	PHASE & NEUTRAL	GROUND	SINGLE PHASE 2 WIRE+G (1PH,N,G)	SINGLE PHASE 3 WIRE+G (2PH,N,G)	THREE PHASE 3 WIRE+G (3PH,N,G)	THREE PHASE & NEUTRAL 4 WIRE+G (3PH,N,G)	ISOLATED GROUND 4 WIRE+2G (3PH,N,2G)
15-20	12	12	3/4"	3/4"	3/4"	3/4"	3/4"
25-30	10	10	3/4"	3/4"	3/4"	3/4"	3/4"
35-40	8	10	3/4"	3/4"	3/4"	3/4"	3/4"
45-50	8 (6)	10	3/4"	3/4"	3/4"	3/4"	3/4"
60	6 (4)	10	3/4" (1)	3/4" (1)	3/4" (1)	3/4" (1)	1"
70	4	8	1"	1 1/4"	1 1/4"	1 1/4"	1 1/4"
80	4 (3)	8	1"	1 1/4"	1 1/4"	1 1/4"	1 1/4"
90-100	3 (2)	8	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/2"
110	2 (1)	6	-	1 1/4"	1 1/4"	1 1/4" (1 1/2")	2"
125	1 (1/0)	6	-	1 1/4" (1 1/2")	1 1/4" (1 1/2")	1 1/2"	2"
150	1/0	6	-	1 1/2"	1 1/2"	1 1/2"	2"
175	2/0	6	-	2"	2"	2"	2"
200	3/0	6	-	2"	2"	2 1/2"	2 1/2"
225	4/0	4	-	2"	2"	2 1/2"	2 1/2"
250	250	4	-	2 1/2"	2 1/2"	2 1/2"	2 1/2"
300	350	4	-	2 1/2"	2 1/2"	3"	3"
350	500	3	-	3"	3"	3"	3"
400	600	3	-	3"	3"	3 1/2"	4"
450	2-4/0	2-2	-	2-2"	2-2"	2-2 1/2"	2-2 1/2"
500	2-250	2-2	-	2-2 1/2"	2-2 1/2"	2-2 1/2"	2-2 1/2"
600	2-350	2-1	-	2-2 1/2"	2-2 1/2"	2-3"	2-3"
700	2-500	2-1/0	-	2-3"	2-3"	2-3"	2-3 1/2"
800	2-600	2-1/0	-	2-3"	2-3"	2-3 1/2"	2-4"
1000	3-400	3-2/0	-	3-3"	3-3"	3-3"	3-3"
1200	3-600	3-3/0	-	3-3 1/2"	3-3 1/2"	3-3 1/2"	3-4"
1600	4-600	4-4/0	-	4-3 1/2"	4-3 1/2"	4-3 1/2"	4-4"
2000	5-600	5-250	-	5-3 1/2"	5-3 1/2"	5-3 1/2"	5-4"

* SEE NOTE 4.

NOTES:

- CONTRACTOR TO SIZE FEEDERS AND BRANCH CIRCUITS BASED ON THIS SCHEDULE AND OVER CURRENT DEVICE SIZE, UNLESS NOTED OTHERWISE.
- CONTRACTOR MAY COMBINE 20A CIRCUITS AS NOTED IN SPECIFICATION.
- CONDUCTORS ARE BASED ON THHN/THWN UP TO AND INCLUDING #4/0. LARGER THAN #4/0 ARE BASED ON TYPE XHHW.
- CONDUCTORS ARE BASED ON 90°C, 600V, INSULATED COPPER WIRE APPLIED AT 75°C FOR TERMINATION RATED 60/75°C OR 75°C. FOR TERMINATION RATED AT 60°C, USE CONDUCTORS AND CONDUIT SIZES INDICATED IN PARENTHESES.
- CONDUIT SIZES ARE VALID FOR EMT OR RGS. CONDUIT SIZES SHALL BE ADJUSTED AS REQUIRED FOR OTHER TYPES OF CONDUIT.
- ELECTRICAL CONTRACTOR TO COORDINATE WITH MECHANICAL CONTRACTOR AND PROVIDE REQUIRED WIRE SIZES TO ACCOMMODATE MECHANICAL EQUIPMENT LUG SIZES. (EXAMPLE: 243/0 IN LIEU OF 14600 KCMIL PER PHASE FOR 400 AMPERE OVERCURRENT DEVICE)
- SIZE OF DISCONNECT SWITCH LOCATED AT EQUIPMENT SHALL BE SIZED BASED UPON OVERCURRENT PROTECTION OF THAT DEVICE.
- PRIOR APPROVAL FROM ENGINEER SHALL OCCUR IF A DIFFERENT SIZE/NUMBER OF CONDUCTORS IS TO BE USED. AMPACITY SHALL BE EQUAL OR GREATER.

OCCUPANCY SENSOR LEGEND	
TYPE	DESCRIPTION
OS _A	360° CEILING MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR
OS _B	90° CEILING/WALL MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR
OS _C	180° CEILING/WALL MOUNTED PASSIVE INFRARED OCCUPANCY SENSOR
OS _D	360° CEILING MOUNTED ULTRASONIC OCCUPANCY SENSOR
So	WALL SWITCH PASSIVE INFRARED OCCUPANCY SENSOR
So So	WALL SWITCH PASSIVE INFRARED OCCUPANCY SENSOR - DUAL LEVEL SWITCHING

RACEWAY APPLICATION SCHEDULE											
	RACEWAY	AC/MC CABLE	ELECTRICAL METALLIC TUBING (EMT)	FLEXIBLE METAL CONDUIT (FMC)	GENERAL-USE OPTICAL FIBER/COMMUNICATION CABLE	RACEWAY	INTERMEDIATE METAL CONDUIT (IMC)	LIQUIDTIGHT FLEXIBLE METAL CONDUIT (LFMC)	PLENUM-TYPE OPTICAL FIBER/COMMUNICATIONS CABLE	CABLE RACEWAY	RIGID-STEEL TYPE OPTICAL FIBER/COMMUNICATIONS CABLE RACEWAY
INDOOR	EXPOSED NOT SUBJECT TO PHYSICAL DAMAGE		X								
	NOT SUBJECT TO PHYSICAL DAMAGE PARTITIONS		X	X							
	CONNECTED TO VIBRATING EQUIPMENT				X			X			
	DAMP AND WET LOCATIONS CONCEALED GENERAL PURPOSE DISTRIBUTION OF OPTICAL FIBER OR COMMUNICATION CABLE		X		X			X	X	X	X
KEYED NOTES											
NOT TO EXCEED 6"-0" IN CEILING SPACE											
EQUIPMENT INCLUDING: TRANSFORMERS, HYDRAULIC PNEUMATIC, ELECTRIC SOLENOID, MOTOR DRIVEN EQUIPMENT USE LFMC IN DAMP/WET LOCATIONS											
GENERAL NOTES											
1. "X" INDICATES ACCEPTABLE SELECTION. IF MORE THAN ONE SELECTION IS INDICATED FOR A DUCT SYSTEM, CONTRACTOR MAY SELECT FROM THOSE INDICATED SELECTIONS.											
2. REFER TO "CONDUCTORS AND CABLES" SPECIFICATION FOR APPLICATION LIMITATIONS OF AC/MC CABLE.											

BRANCH CIRCUIT VOLTAGE DROP WIRING SCHEDULE FOR SINGLE PHASE CIRCUITS						
BRANCH CKT RATING (A)	WIRE SIZE (AWG)	MAXIMUM BRANCH CIRCUIT LENGTH (IN FEET)				
		120V	208V	240V	277V	480V
20A	12	83	143	165	191	331
	10	128	222	256	295	511
	8	201	348	402	464	804
	6	313	542	625	721	1250
30A	10	85	148	170	197	341
	8	134	232	268	309	536
	6	208	361	417	481	833
	4	313	542	625	721	1250

NOTE:

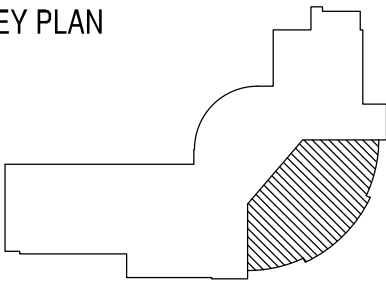
- THE ABOVE TABLE VALUES ARE BASED ON COPPER CONDUCTORS, IN STEEL CONDUIT, WITH A LOAD POWER FACTOR OF 0.85 PER NEC CHAPTER 9, TABLE 9.
- PROVIDE BRANCH CIRCUIT CONDUCTORS AS INDICATED IN THE TABLE ABOVE FOR ALL LIGHTING AND RECEPTACLE BRANCH CIRCUITS. WHERE BRANCH CIRCUITS SERVE DEDICATED EQUIPMENT, THE CONTRACTOR MAY PERFORM VOLTAGE DROP CALCULATIONS BASED ON ACTUAL EQUIPMENT CONNECTED LOAD AND PROVIDE CONDUCTORS APPROPRIATELY SIZED TO LIMIT VOLTAGE DROP TO A MAXIMUM OF 3%.
- CONDUCTOR SIZES ARE BASED ON MAXIMUM OF 9 CURRENT CARRYING CONDUCTORS IN A SINGLE CONDUIT.
- LIMITS FOR CONDUCTOR LENGTHS SHOWN ARE BASED ON A MAXIMUM BRANCH CIRCUIT LOADING OF 64% OF THE BRANCH BREAKER RATING AND A MAXIMUM OF 3 PERCENT VOLTAGE DROP TO COMPLY WITH ASHRAE/IES 90.1 - 1999 AND THE NEC. FOR CIRCUITS LOADED GREATER THAN 64% OF BRANCH BREAKER RATING, THE CONTRACTOR SHALL PROVIDE CONDUCTORS APPROPRIATELY SIZED TO LIMIT VOLTAGE DROP TO 3%.

NOTE: SOME SYMBOLS AND ABBREVIATIONS
SHOWN MAY NOT APPLY TO THIS PROJECT.



WSU PROJECT NUMBER
005-226260

KEY PLAN



Peter Basso Associates Inc.
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PROJECT
NUMBER **12089**

ISSUE		
BIDS		02.01.13
95% CD REVIEW		12.20.12

DRN: MSG CHKD: MSG

**WAYNE STATE UNIVERSITY
SCIENCE HALL**
Lecture Room Upgrades - 2nd Floor

ELECTRICAL SCHEDULES,
DETAILS, AND DIAGRAMS



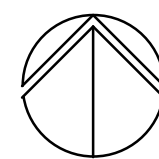
210 East Huron St.
Ann Arbor, MI 48104
734.663.1910 T
734.663.8427 F

www.a3c.com

COLLABORATIVE ARCHITECTURE

SHEET

E0.02



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

- A. REMOVE AND REPLACE EXISTING RECEPTACLES AND TELECOMMUNICATIONS OUTLETS AS WELL AS ASSOCIATED COVER PLATES TO FACILITATE ROOM FINISH UPDATES. REMOVE EXISTING RECEPTACLES AND TELECOMMUNICATIONS DEVICES MOUNTED HIGH ON THE WALL TO ACCOMMODATE SOUND ATTENUATION PANEL REPLACEMENT. FOR DEVICES MOUNTED IN SOUND ATTENUATION PANELS, REMOVE COMPLETELY INCLUDING EXISTING CONDUIT AND WIRE, UNLESS OTHERWISE INDICATED. REMOVE AND REINSTALL EXISTING THERMOSTATS AS REQUIRED TO ACCOMMODATE SOUND ATTENUATION PANEL REPLACEMENT AND WALL FINISH UPDATES.
- B. REMOVE DEVICES, ASSOCIATED SURFACE RACEWAY/CONDUIT, AND ASSOCIATED WIRING. NEW DEVICES TO BE INSTALLED IN NEW LOCATIONS AS INDICATED. REFER TO NEW WORK PLAN FOR NEW LOCATION. EXTEND CONDUIT AND WIRING AS REQUIRED.
- C. REMOVE, PROTECT AND STORE WALL CLOCK FOR REINSTALLATION. REFER TO NEW WORK PLAN FOR NEW LOCATION.
- D. RE-CONFIGURE EXISTING TELECOMMUNICATIONS SURFACE RACEWAY TO FACILITATE ACOUSTIC WALL PANEL REMOVAL. RACEWAY TO BE FLUSH TO WALL AT COMPLETION. COORDINATE TELECOMMUNICATIONS CABLEING DISCONNECTION/RECONNECTION WITH OWNER.
- E. ALTERNATE NO. 1: REMOVE ALL 2X4 LINEAR FLUORESCENT LIGHTING FIXTURES AND DOWNLIGHT FIXTURES WITHIN ROOM. EXTEND EXISTING BRANCH CIRCUIT CONDUIT AND WIRING TO NEW FIXTURE LOCATIONS INDICATED ON SHEET E202A. REFER TO SPECIFICATIONS FOR EXACT ALTERNATE NUMBERS AND REQUIREMENTS.
- F. ALTERNATE NO. 1: REMOVE EXISTING SPEAKER AND/OR MICROPHONE. PROTECT, AND RETURN TO OWNER FOR REINSTALLATION. REMOVE EXISTING WIRING TO PROJECTION BOOTH. NEATLY COIL AND PROTECT FOR REINSTALLATION BY OWNER.
- G. ALTERNATE NO. 1: EXISTING PROJECTOR TO BE REMOVED BY OWNER. OWNER TO INSTALL NEW PROJECTOR. COORDINATE NEW PROJECTOR LOCATION WITH OWNER AND RELOCATED EXISTING RECEPTACLE AND LOW VOLTAGE RACEWAY AS REQUIRED TO ACCOMMODATE NEW LOCATION. EXTEND CONDUIT AND WIRING AS REQUIRED.
- H. BASE BID: EXISTING MOTORIZED PROJECTION SCREEN TO REMAIN. CONTROL SWITCH TO BE REPLACED AND RELOCATED AS INDICATED. PROVIDE NEW CONDUIT AND CONTROL WIRING TO PROJECTION SCREEN.

ALTERNATE NO. 1 AND ALTERNATE NO. 3: EXISTING SCREEN TO BE REMOVED. REMOVE EXISTING SWITCH AND ASSOCIATED CONTROL WIRING. EXISTING BRANCH CIRCUIT TO REMAIN.

- I. REMOVE/TEMPORARILY SUPPORT TEMPERATURE CONTROLS DEVICE TO ACCOMMODATE WALL FINISH UPDATES. CLEAN AND REINSTALL EXISTING DEVICES.
- J. REMOVE EXISTING RECEPTACLE. EXTEND EXISTING BRANCH CIRCUIT TO NEW DEVICE LOCATION VIA SURFACE MOUNTED RACEWAY.





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

1. THESE DRAWINGS REPRESENT THE GENERAL EXTENT AND ARRANGEMENT OF SYSTEMS, BUT ARE NOT TO BE CONSIDERED FABRICATION DRAWINGS. COORDINATE WITH OTHER TRADES, AND PROVIDE EACH SYSTEM COMPLETE, INCLUDING ALL NECESSARY COMPONENTS, FITTINGS, AND OFFSETS.
2. INSTALL SYSTEMS SUCH THAT REQUIRED CLEARANCE AND SERVICE ACCESS SPACE IS PROVIDED AROUND ALL MECHANICAL AND ELECTRICAL EQUIPMENT, AND AROUND ANY COMPONENTS WHICH REQUIRE SERVICE ACCESS.
3. COORDINATE AND PROVIDE ACCESS DOORS WITHIN INACCESSIBLE CEILING, SHAFT, AND CHASE AREAS FOR ALL COMPONENTS WHICH REQUIRE SERVICE ACCESS. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES.
4. PROVIDE SUPPLEMENTARY STEEL AS REQUIRED FOR THE PROPER SUPPORT OF ALL SYSTEMS.
5. COORDINATE THE MOUNTING HEIGHTS OF OUTLETS WITH ARCHITECTURAL ELEVATIONS AND THE TRADES INSTALLING THE WORK.
6. EXISTING AUTOCALL FIRE ALARM CONTROL PANEL IS LOCATED IN MECHANICAL ROOM IN BASEMENT. EXISTING SIMPLEX GRINNELL NAC PANEL LOCATED IN ELECTRICAL ROOM 2015. CONNECT NEW FIRE ALARM DEVICES TO EXISTING NAC PANEL. PROVIDE ALL FIRE ALARM SYSTEM COMPONENTS AS REQUIRED FOR FULLY FUNCTIONAL SYSTEM. TEST SYSTEM AT COMPLETION OF RENOVATION.
7. ALL EXIT SIGNS SHALL BE TYPE "X" AND SHALL BE CONNECTED TO UNSWITCHED HOT LEG OF ADJACENT CIRCUIT.
8. ELECTRICAL CONTRACTOR TO PROVIDE BID PRICE FOR ALL WORK AS DESCRIBED ON SHEET E102 AND SHEET E202 AND A LINE ITEM ADD ON PRICE FOR ALTERNATES SHOULD THEY BE ACCEPTED.
- 9.1. BASE BID IS TO BE FOR ALL WORK AS DESCRIBED ON SHEETS E102 AND E202, UNLESS OTHERWISE NOTED. EXISTING LIGHT FIXTURES ARE TO BE CONNECTED TO NEW CONTROL DEVICES AS INDICATED.
- 9.2. FOR ALTERNATE NO. 1, NO. 2, AND NO. 3, PROVIDE ADDITIONAL COST TO REMOVE EXISTING LIGHT FIXTURES AND CONTROLS AND PROVIDE NEW LIGHT FIXTURES AND CONTROLS, AS WELL AS CONDUIT, CONTROL SWITCH, AND CONTROL WIRING FOR MOTORIZED PROJECTION SCREEN AS INDICATED ON SHEET E202A. REFER TO SHEET E102 FOR EXISTING LIGHT FIXTURE LOCATIONS AND QUANTITIES. ALL OTHER WORK AS DESCRIBED IN THE BASE BID IS STILL TO BE COMPLETED.

1. PROVIDE EMERGENCY BATTERY BALLAST IN EXISTING FIXTURE.
2. SURFACE RACEWAY TO BE ROUTED ON BACKSIDE OF WALL AS INDICATED. CONDUITS TO TERMINATE INTO RACEWAY THROUGH WALL AT CEILING LEVEL, AND TO BE ROUTED FROM SURFACE RACEWAY THROUGH WALL INTO SURFACE RACEWAY ON WALL FOR LIGHTING CONTROL DEVICES AS INDICATED. COORDINATE EXACT LOCATIONS AND REQUIREMENTS WITH ARCHITECTURAL DRAWINGS AND TRADES.
3. REINSTALL PREVIOUSLY REMOVED CLOCK.
4. CLEAN, RELAMP, AND PROVIDE NEW LENS AS APPLICABLE FOR EXISTING LINEAR FLUORESCENT FIXTURES AND DOWNLIGHTS WITHIN SPACE.
5. PROVIDE NEW LIGHT SWITCH IN NEW SURFACE RACEWAY. CONNECT TO EXISTING BRANCH CIRCUITING. EXTEND CONDUIT AND WIRE AS REQUIRED.
6. PROVIDE NEW DUAL SWITCHES AS INDICATED IN EXISTING 5-GANG BACKBOX. CONNECT TO EXISTING BRANCH CIRCUIT. PROVIDE NEW CONDUIT AND WIRING AS REQUIRED SO THAT EXISTING LIGHTING FIXTURES MAY BE CONTROLLED AS INDICATED.
7. BASE BID, ALTERNATE NO. 3. NEW CONTROL SWITCH FOR EXISTING MOTORIZED PROJECTION SCREEN. NEW SWITCH TO MATCH EXISTING SWITCHES AND PROPERLY CONTROL SCREEN. PROVIDE NEW 3/4" CONDUIT AND REQUIRED CONTROL WIRING TO EXISTING PROJECTOR.

ALTERNATE NO. 2. NEW CONTROL SWITCH FOR NEW MOTORIZED PROJECTION SCREEN. PROVIDE NEW 3/4" CONDUIT AND REQUIRED CONTROL WIRING TO NEW PROJECTION SCREEN. COORDINATE SWITCH AND CONTROL WIRING REQUIREMENTS WITH MANUFACTURER.
8. NEW RECEPTACLE IN SURFACE MOUNTED RACEWAY EXTENDED FROM EXISTING JUNCTION BOX LOCATION. EXTEND WIRING AS REQUIRED.
9. EXTEND EXISTING WIRING FROM EXISTING JUNCTION BOX VIA SURFACE MOUNTED RACEWAY DOWN WALL AND INTO CAVITY UNDER RAMP. EXTEND VIA CONDUIT TO LOCATIONS INDICATED IN EXISTING WING WALL. COORDINATE ACCESS TO BELOW RAMP, LOCATIONS, AND EXACT REQUIREMENTS WITH ARCHITECTURAL DRAWINGS AND TRADES.
10. SURFACE RACEWAY TO BE ROUTED ON BACKSIDE OF WALL AS INDICATED. CONDUITS TO TERMINATE INTO RACEWAY THROUGH WALL AT CEILING LEVEL, AND TO BE ROUTED FROM SURFACE RACEWAY THROUGH WALL INTO WING WALL FOR LIGHTING CONTROL DEVICES AS INDICATED. COORDINATE EXACT LOCATIONS AND REQUIREMENTS WITH ARCHITECTURAL DRAWINGS AND TRADES.



PROJECT NUMBER		12089
ISSUE		
	BIDS	02.01.13
	95% CD REVIEW	12.20.12
DRN: MSG		CHKD: MSG

WAYNE STATE UNIVERSITY
SCIENCE HALL
Lecture Room Upgrades - 2nd Floor

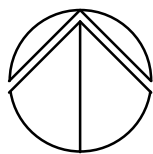
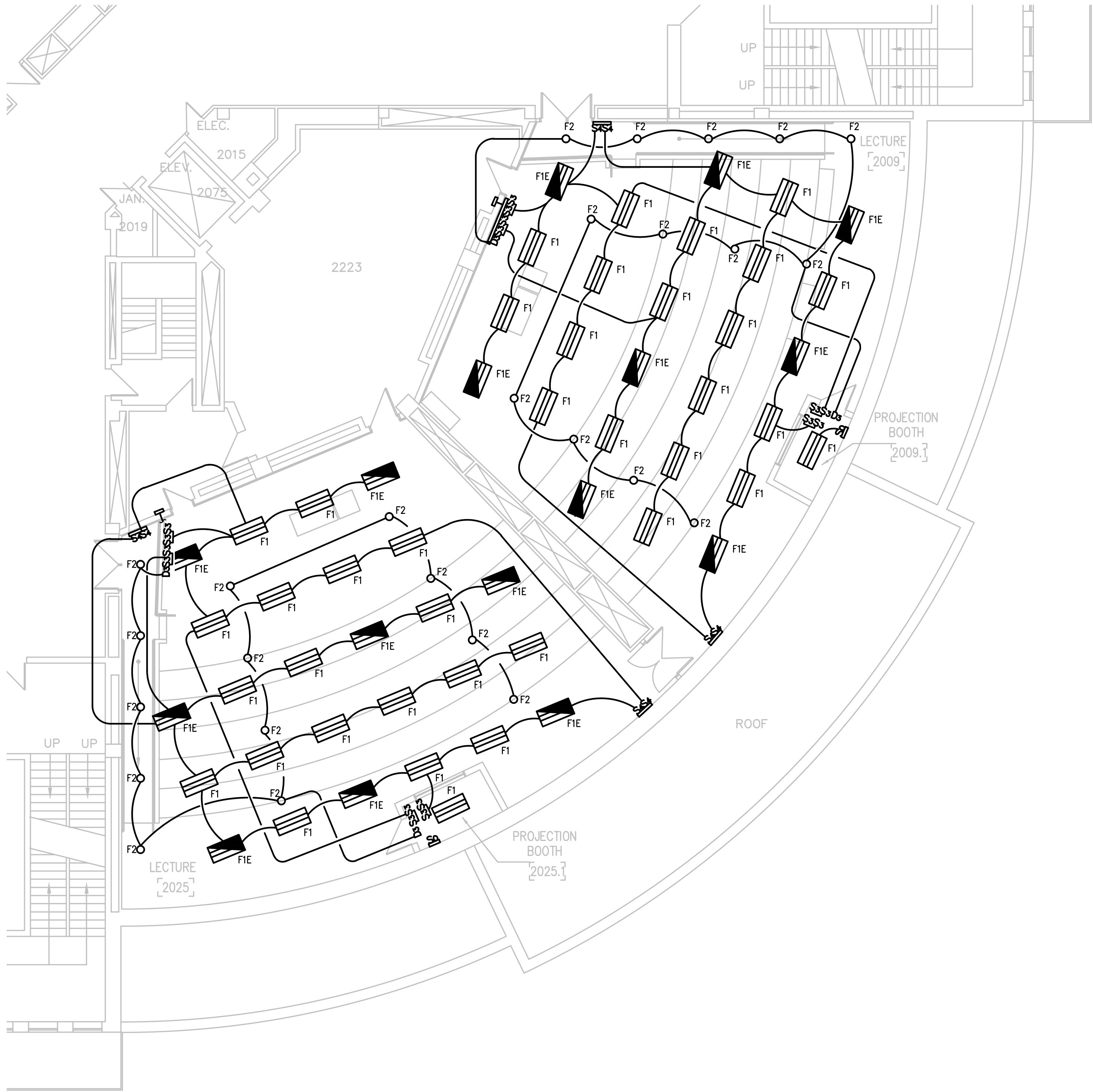
SECOND FLOOR
ELECTRICAL NEW WORK
PLAN - BASE BID



SHEET

E2.02

G:\2012\2012-0383-00\Cad\2012-0383-00-E2-EP2.dwg, E202A, 2/1/2013 10:50:27 AM, Kyle Trojkowski, Peter Basso Associates Inc.



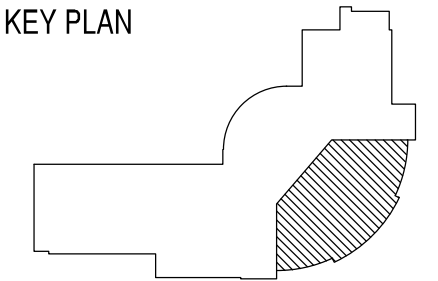
SECOND FLOOR ELECTRICAL NEW WORK PLAN - ALTERNATE
SCALE: 1/8" = 1' - 0"

GENERAL NOTES:

1. THESE DRAWINGS REPRESENT THE GENERAL EXTENT AND ARRANGEMENT OF SYSTEMS, BUT ARE NOT TO BE CONSIDERED FABRICATION DRAWINGS. COORDINATE WITH OTHER TRADES, AND PROVIDE EACH SYSTEM COMPLETE, INCLUDING ALL NECESSARY COMPONENTS, FITTINGS, AND OFFSETS.
2. INSTALL SYSTEMS SUCH THAT REQUIRED CLEARANCE AND SERVICE ACCESS SPACE IS PROVIDED AROUND ALL MECHANICAL AND ELECTRICAL EQUIPMENT, AND AROUND ANY COMPONENTS WHICH REQUIRE SERVICE ACCESS.
3. COORDINATE AND PROVIDE ACCESS DOORS WITHIN INACCESSIBLE CEILING, SHAFT, AND CHASE AREAS FOR ALL COMPONENTS WHICH REQUIRE SERVICE ACCESS. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES.
4. PROVIDE SUPPLEMENTARY STEEL AS REQUIRED FOR THE PROPER SUPPORT OF ALL SYSTEMS.
5. COORDINATE THE MOUNTING HEIGHTS OF OUTLETS WITH ARCHITECTURAL ELEVATIONS AND THE TRADES INSTALLING THE WORK.
6. EXISTING AUTOCALL FIRE ALARM CONTROL PANEL IS LOCATED IN MECHANICAL ROOM IN BASEMENT. EXISTING SIMPLEX GRINNELL NAC PANEL LOCATED IN ELECTRICAL ROOM 2015. CONNECT NEW FIRE ALARM DEVICES TO EXISTING NAC PANEL. PROVIDE ALL FIRE ALARM SYSTEM COMPONENTS AS REQUIRED FOR FULLY FUNCTIONAL SYSTEM. TEST SYSTEM AT COMPLETION OF RENOVATION.
7. ALL EXIT SIGNS SHALL BE TYPE "X" AND SHALL BE CONNECTED TO UNSWITCHED HOT LEG OF ADJACENT CIRCUIT.
8. ELECTRICAL CONTRACTOR TO PROVIDE BID PRICE FOR ALL WORK AS DESCRIBED ON SHEET E102 AND SHEET E202 AND A LINE ITEM ADD ON PRICE FOR ALTERNATES SHOULD THEY BE ACCEPTED.
- 8.1. BASE BID IS TO BE FOR ALL WORK AS DESCRIBED ON SHEETS E102 AND E202, UNLESS OTHERWISE NOTED. EXISTING LIGHT FIXTURES ARE TO BE CONNECTED TO NEW CONTROL DEVICES AS INDICATED.
- 8.2. FOR ALTERNATE NO. 1, NO. 2, AND NO. 3, PROVIDE ADDITIONAL COST TO REMOVE EXISTING LIGHT FIXTURES AND CONTROLS AND PROVIDE NEW LIGHT FIXTURES AND CONTROLS, AS WELL AS CONDUIT, CONTROL SWITCH, AND CONTROL WIRING FOR MOTORIZED PROJECTION SCREEN AS INDICATED ON SHEET E202A. REFER TO SHEET E102 FOR EXISTING LIGHT FIXTURE LOCATIONS AND QUANTITIES. ALL OTHER WORK AS DESCRIBED IN THE BASE BID IS STILL TO BE COMPLETED.



WSU PROJECT NUMBER
005-226260



PROJECT
NUMBER **12089**

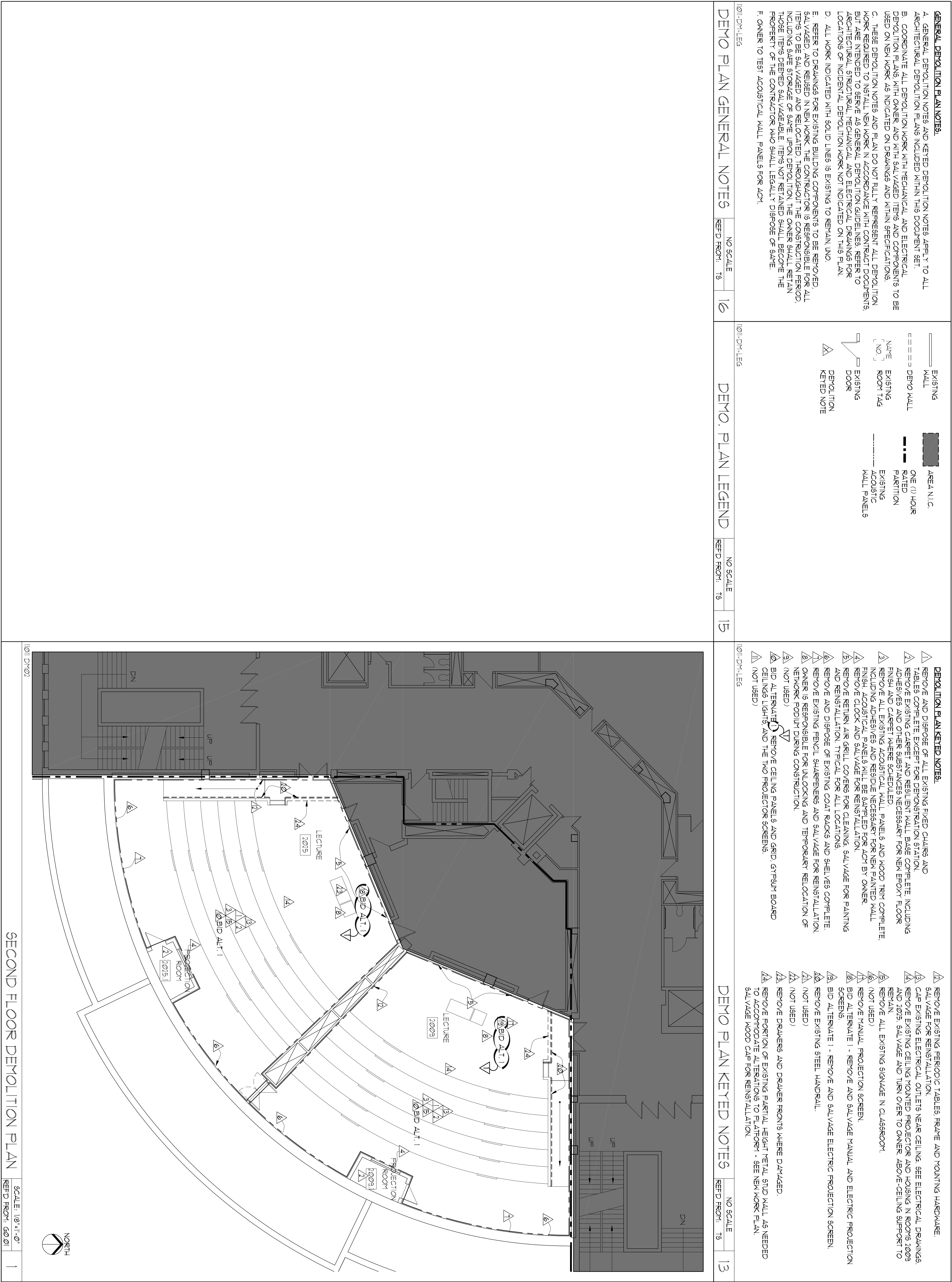
ISSUE		
	DATE	DESCRIPTION
BIDS	02.01.13	
95% CD REVIEW	12.20.12	

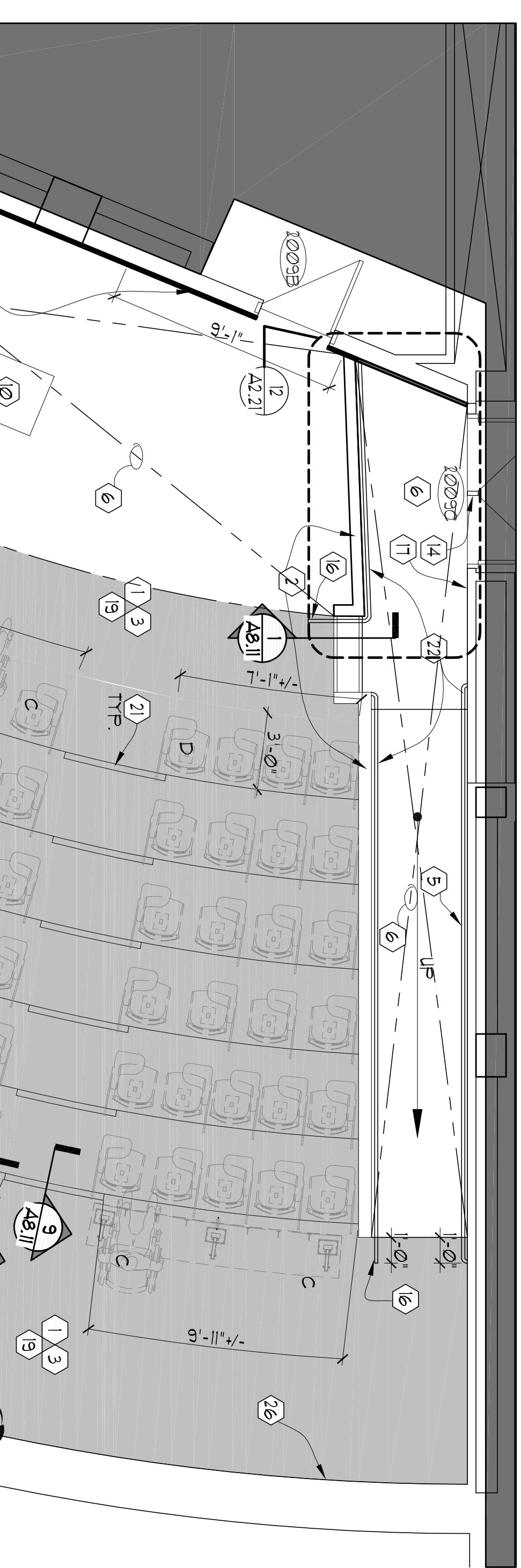
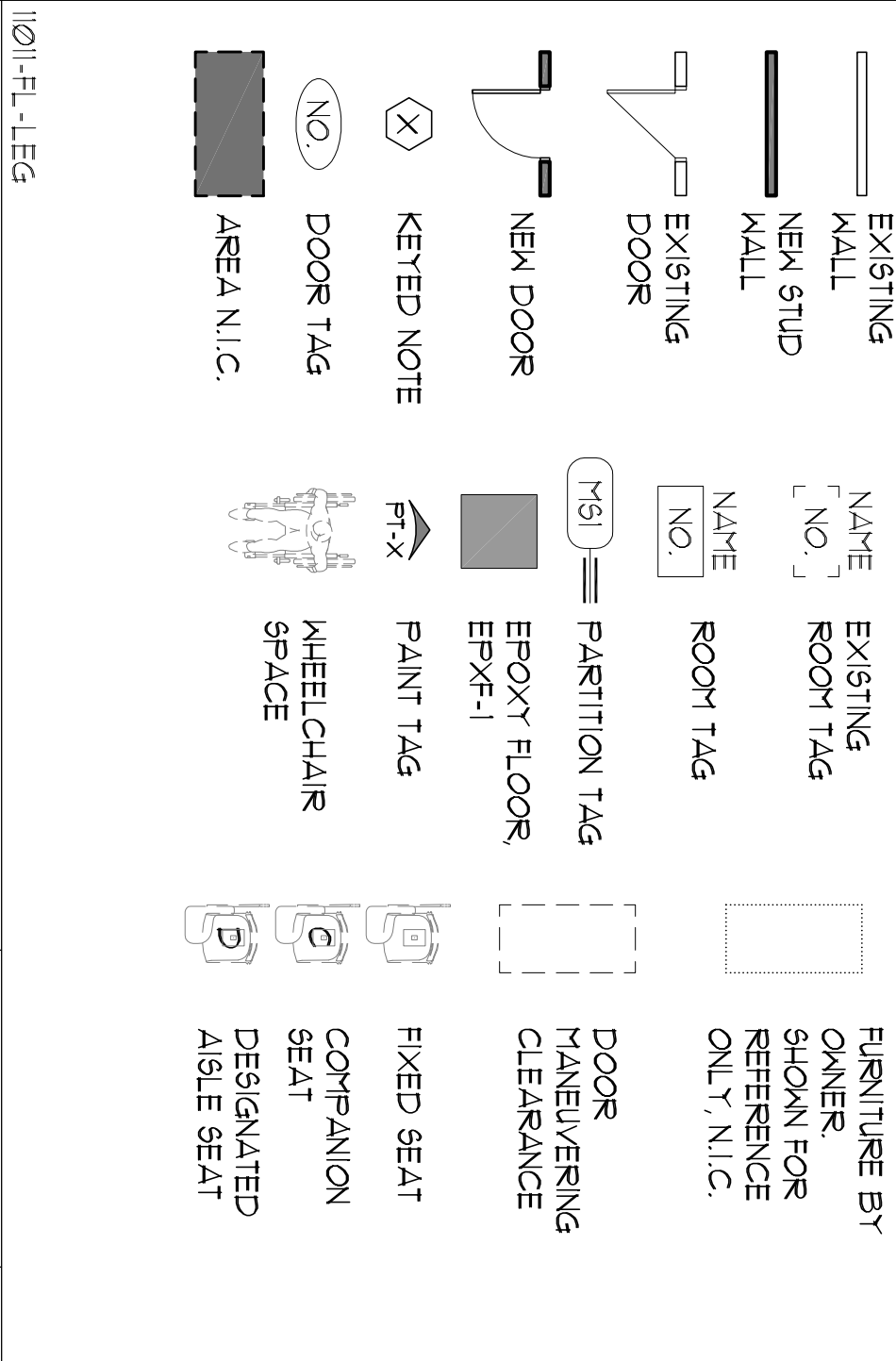
DRN: MSG CHKD: MSG

WAYNE STATE UNIVERSITY
SCIENCE HALL
Lecture Room Upgrades - 2nd Floor
SECOND FLOOR
ELECTRICAL NEW WORK
PLAN - ALTERNATE



SHEET
E2.02A





FLOOR 4 FINISH PLAN LEGEND		NO SCALE
REFD FROM: T5		T5
NEW WORK PLAN KEYED NOTES:		
1	PATCH AND REPAIR WALL AT ALL LOCATIONS WHERE SIGMAWE COAT RACK WIRE MOLD, PENCIL SHARPENER AND KNEELESS ADAPTERS WERE REMOVED	
2	REINISH EXISTING WOOD TOP CAP ON HALF WALL, LIGHTLY SAND AND PATCH WITH MATCHING WOOD FILLER FINISH WITH CLEAR POLYURETHANE FINISH.	
3	PATCH AND REPAIR WALL WHERE ACOUSTIC PANELS WERE REMOVED. PREP SURFACE TO RECEIVE NEW PAINT.	
4	PATCH AND REPAIR CONCRETE ESPECIALLY WHERE FIXED CHAIRS AND TABLES WERE REMOVED TO RECEIVE NEW SEATING. ANCHORS, PREP SUBSTRATE TO BE SMOOTH AND TO RECEIVE EPOXY COATING.	
5	INSTALL NEW WALL MOUNTED PERFORATED METAL ACOUSTIC PANELS. REFER TO INTERIOR ELEVATIONS FOR LOCATION.	
6	INSTALL CARPET AS SCHEDULED. CARPET TO CASCADE OVER RIGER OF TOP	
7	HEAD WHERE APPLICABLE. SEE SHEET A5.11 FOR DETAIL.	
8	INSTALL GALVANIZED PERIODIC TABLE	
9	FIXED FURNITURE TO BE PURCHASED AND INSTALLED BY MAYNE STATE UNIVERSITY UNDER A SEPARATE CONTRACT. LOOSE FURNITURE TO BE PURCHASED AND INSTALLED BY MAYNE STATE UNIVERSITY UNDER A SEPARATE CONTRACT.	
10	INSTALL WALL CLOCKS AT PREVIOUS LOCATION.	
11	ONLINE TO INSTALL AND SECURE NETWORK PODIUM. COORDINATE LOCATION WITH E ELECTRICAL.	
12	CLEAN RETURN AIR GRILL COVERS AND PAINT AS SCHEDULED. INSTALL IN PREVIOUS LOCATION TYPICAL FOR ALL LOCATIONS. REVERSE AS REQUIRED TO INSTALL IN NEW GIFT BOARD ONCE REMOVED FROM ACOUSTIC PANELS.	
13	CLEAN GLASS OF VENEING ROOFS AT PROJECT COMPLETION.	
14	PROVIDE BLANK METAL PANEL. PAINTED AS SCHEDULED WHERE DRAWERS WERE REMOVED.	
15	EXISTING RATED DOOR TO REMAIN AND SERVICE AS FIRE SEPARATION DURING CONSTRUCTION.	
16	CLEAN TOP OF DEMONSTRATION COUNTER. METAL BASE TO BE PREPPED AND PAINTED AS SCHEDULED.	
17	RETURN HANDRAIL TO FLOOR.	
18	INSTALL SIGMAWE. SEE DETAILS 4 AND 8 ON SHEET A5.11.	
19	INSTALL 5/8" GYPSUM BOARD FUSING OVER EXISTING CHU. SEE INTERIOR ELEVATIONS FOR SPECIFIC LOCATION.	
20	CLEAN EXISTING GLAZED BLOCK BASE.	
21	CONSTRUCT 3 5/8" 20 GA. METAL STUD AND 5/8" GYPSUM BOARD BUILDOUT AROUND EXISTING FUSING. EXTEND TO MINIMUM HEIGHT OF 2'4" AND CAP.	
22	INSTALL TIE-BACK HOOKS (T5-1) TV	
23	INSTALL CONTINUOUS 1 1/2" DIAMETER METAL HANDRAIL. MOUNT AT 34" A.F.F. TO CENTER AT 1 1/2' FROM WALL. SEE DETAIL T2.6B.11.	
24	PROVIDE 5/8" GYPSUM BOARD PANEL TO COVER JOINTS BETWEEN EXISTING GYPSUM BOARD AND CHU WITH PERIMETER J-BEAD AND FIRE-RESISTANT SEALANT. PAINT TO MATCH WALL.	
25	(NOT USED)	
26	INSTALL GALVANIZED PENCIL SHARPENERS AT PREVIOUS LOCATION.	
27	NOT USED.	

FLOOR PLAN KEYED NOTES

REFD FROM: T5

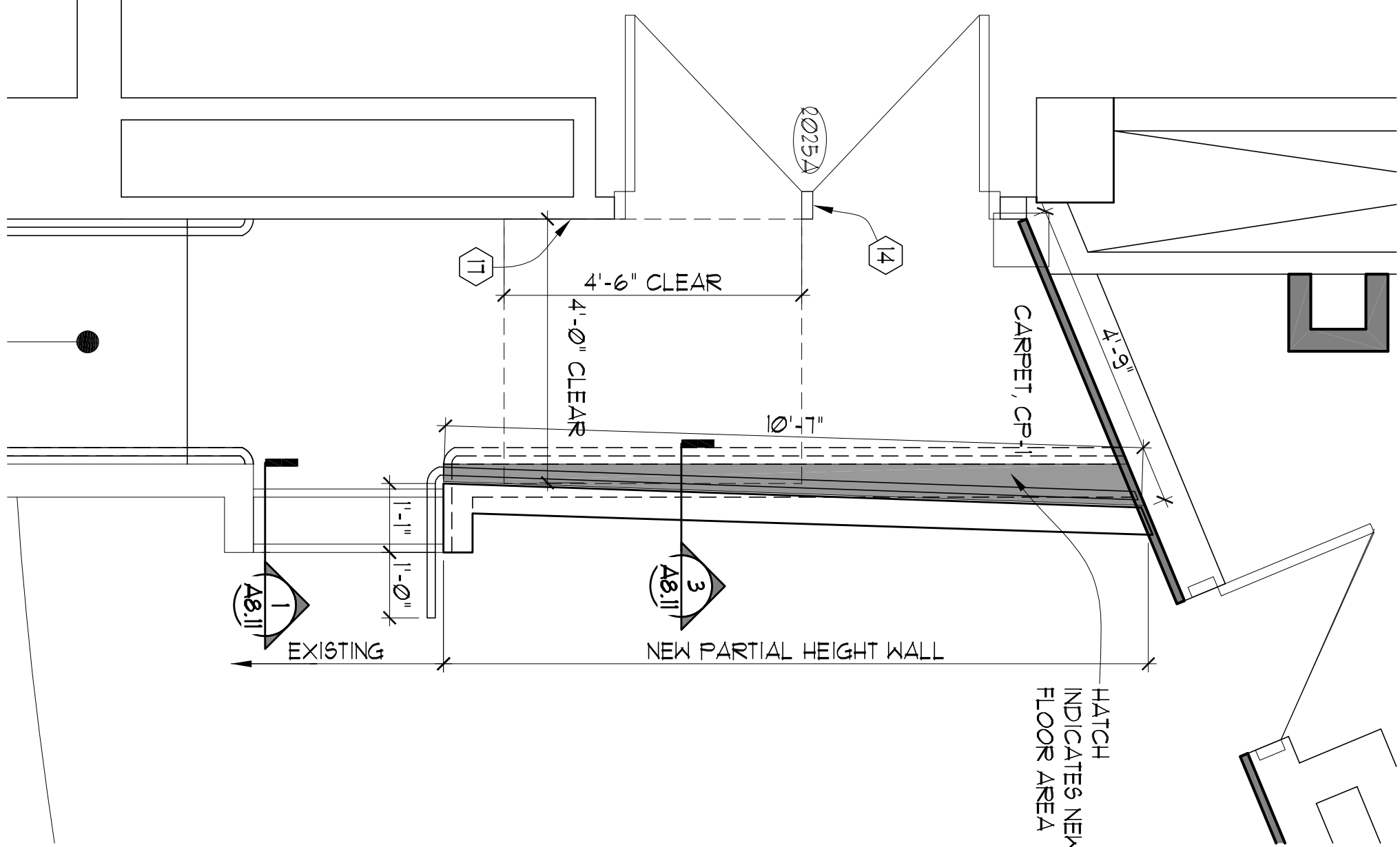
NO SCALE

T5

3

Architectural floor plan of the second floor of the Ryerson Theatre. The plan shows a large auditorium with tiered seating, a stage area, and various rooms including a production room, lecture hall, and drawing shop. The plan is oriented with North at the top. Key features include:

- Seating:** The main seating area is divided into sections labeled A, B, C, D, and E. The total seating capacity is 1,009.
- Stage:** The stage area is labeled "STAGE" and includes a "PRODUCTION ROOM" (1003) and a "DRAWING SHOP" (1004).
- Rooms:** Other rooms include a "LECTURE HALL" (1009), a "DRAWING SHOP" (1004), and a "PRODUCTION ROOM" (1003).
- Dimensions:** The plan includes various dimensions for seating rows and stage areas, such as 17'-6 1/4", 24'-10 1/4", and 15'-0 1/4".
- Notes:** A note indicates that the dimension of 15'-0 1/4" is to be coordinated with the seating shop drawing furniture for reference only.
- Orientation:** A north arrow is located in the bottom right corner, pointing towards the top of the page.
- Scale:** The scale is 1/4" = 1'-0".
- Revision:** The revision is 1/4" = 1'-0".
- Project:** The project is "SECOND FLOOR - RY. 2009 - NEW WORK PLAN".
- Sheet:** The sheet is labeled "1011 FP02".



11011 EP02

REV. 2025 ENLARGED PLAN

SCALE: 1/2"=1'-0"
REF'D FROM: TS

12

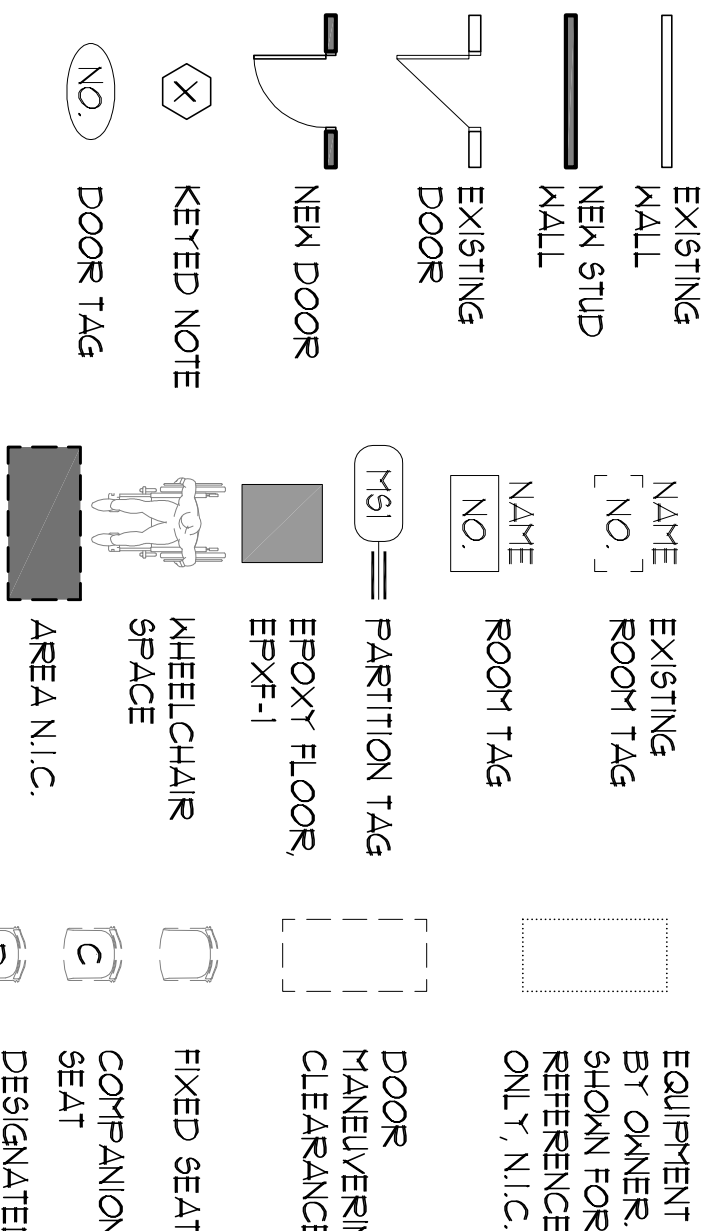
NEW WORK PLAN KEYED NOTES:

- 1 PATCH A REPAIR MALL AT ALL LOCATIONS WHERE SIGNAGE, COAT RACK, WIRE MOLD, FENCIL SHARPENER AND WIRELESS ADAPTERS WERE REMOVED.
- 2 REININ EXISTING WOOD TOP CAP ON HALF WALL, LIGHTLY SAND AND PATCH WITH MATCHING WOOD FILLER. FINISH WITH CLEAR POLYURETHANE FINISH.
- 3 PATCH AND REPAIR MALL WHERE ACOUSTIC PANELS WERE REMOVED, PREP SURFACE TO RECEIVE NEW PAINT.
- 4 PATCH AND REPAIR CONCRETE ESPECIALLY WHERE FIXED CHAIRS AND TABLES WERE REMOVED TO RECEIVE NEW SEATING ANCHORS. FRED SUBSTRATE TO BE SMOOTH AND TO RECEIVE EPOXY COATING.
- 5 INSTALL NEW MALL MOUNTED PERFORATED METAL ACOUSTIC PANELS. REFER TO INTERIOR ELEVATIONS FOR LOCATION.
- 6 TREAD WHERE APPLICABLE. SEE SHEET A-11 FOR DETAIL.
- 7 INSTALL SCHEDULED PERIODIC TABLE.
- 8 FIXED FURNITURE TO BE PURCHASED AND INSTALLED BY MAINE STATE UNIVERSITY UNDER A SEPARATE CONTRACT. LOOSE FURNITURE TO BE PURCHASED AND INSTALLED BY MAINE STATE UNIVERSITY UNDER A SEPARATE CONTRACT.
- 9 INSTALL WALL CLOCKS AT PREVIOUS LOCATION.

- 10 OWNER INSTALL AND SECURE NETWORK PODIUM, COORDINATE LOCATION WITH ELECTRICAL.
- 11 CLEAN RETURN AIR GRILL COVERS AND PAINT AS SCHEDULED. INSTALL PREVIOUS LOCATION TYPICAL FOR ALL LOCATIONS. REMOVE AS REQUIRED TO INSTALL IN NEW GYM BOARD ONECE REMOVED FROM ACOUSTIC PANELS.
- 12 CLEAN GLASS OF VIEWING ROOMS AT PROJECT COMPLETION.
- 13 PROVIDE BLANK METAL PANEL, PAINTED AS SCHEDULED WHERE DRAWERS ARE REMOVED.
- 14 EXISTING RATED DOOR TO REMAIN AND SERVICE AS FIRE SEPARATION DURING CONSTRUCTION.
- 15 CLEAN TOP OF DEMONSTRATION COUNTER, METAL BASE TO BE PREPARED AND PAINTED AS SCHEDULED.
- 16 RETURN HANDRAIL TO FLOOR.
- 17 INSTALL SIGNAGE. SEE DETAILS 4 AND 8 ON SHEET A8.11.
- 18 INSTALL 5/8" GYPSUM BOARD FLARING OVER EXISTING CHUL. SEE INTERIOR ELEVATIONS FOR SPECIFIC LOCATION.
- 19 CLEAN EXISTING GLAZED BLOCK BASE.
- 20 CONSTRUCT 3 5/8", 10 GA. METAL STUD AND 5/8" GYPSUM BOARD BUILDOUT AROUND EXPOSED BRING, EXTEND TO MINIMUM HEIGHT OF 4" AND CAP.
- 21 ~~INSTALL TIE-UP NOBING (TS-1) AT~~
- 22 ~~INSTALL CONTINUOUS 1/2" DIAMETER METAL HANDRAIL, MOUNT AT 34" A.F.F. TO CENTER AT 1/2" FROM WALL. SEE DETAIL 21A8.11.~~
- 23 PROVIDE 5/8" GYPSUM BOARD PANEL TO COVER JOINTS BETWEEN EXISTING GYPSUM BOARD AND CHUL WITH PERIMETER J-BEAD AND FIRE-RESISTANT SEALANT. PAINT TO MATCH WALL.
- 24 (NOT USED)
- 25 (NOT USED)
- 26 INSTALL SALLYVAGED PENCIL SHARPENERS AT PREVIOUS LOCATION.

FLOOR PLAN KEYED NOTES

NO SCALE
REF'D FROM:



FLOOR PLAN LEGEND

NO SCALE
REF'D FROM: T

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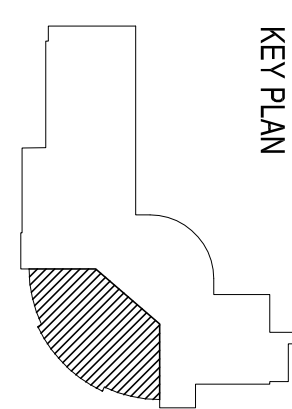
SECOND FLOOR - PM, 2025 - NEW WORK PLAN

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

GENERAL FLOOR PLAN NOTES:

- A. GENERAL FLOOR PLAN / PARTITION NOTES AND PARTITION TYPES APPLY TO ALL FLOOR PLANS AND UNRAISED FLOOR PLANS INCLUDED WITHIN THIS DOCUMENT SET.
- B. COORDINATE THE PHASING AND SEQUENCING OF NEW CONSTRUCTION WITH ELECTRICAL, DRAINAGE AND SPECIFICATIONS AND WITH CONSTRUCTION PHASE SEQUENCE AS INCLUDED WITHIN GENERAL DETAIL NOTES LOCATED ELSEWHERE.
- C. ALL INTERIOR PARTITION DIMENSIONS ARE TO FINISH FACE, UNO.
- D. MAINTAIN INTEGRITY OF ALL NEW OR EXISTING FIRE RATED PARTITIONS, REFER TO REFLECTED CEILING PLANS FOR NEW RATED PARTITION LOCATIONS.
- E. WHERE EXISTING SUBSTRATES ARE LOCATED WITHIN NEW FINISHED AREAS, OR PATCHING OF EXISTING SUBSTRATES WITHIN EXISTING ROOMS IS REQUIRED DUE TO WALL NAIL OR DEVICE REMOVAL, NEW FINISHES SHALL EXTEND TO NEAREST NATURAL BREAK OR TERMINATION FOR A CLEAN UNFINISHED APPEARANCE AT THE END OF CONSTRUCTION. REFER TO ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR LOCATIONS OF INCIDENTAL ADDITIONAL FINISH WORK ASSOCIATED WITH RESTORATION OF EXISTING FINISHES WHERE ALTERED BY ARCHITECTURAL, MECHANICAL AND ELECTRICAL WORK.
- F. SEE SHEET A2.41 FOR INTERIOR FINISH SCHEDULE AND KEY.

6. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS PRIOR TO BEGINNING WORK OR SUPPLYING MATERIALS OR COMPONENTS. LAYOUT ALL WALLS PRIOR TO COMMENCEMENT OF FRAMING AND NOTIFY ARCHITECT FOR DISPOSITION OF MAJOR DIMENSIONAL CONFLICTS.



KEY PLAN

WSU PROJECT NUMBER
005-226260



WAYNE STATE UNIVERSITY
SCIENCE HALL

Lecture Room Upgrades - 2nd Floor

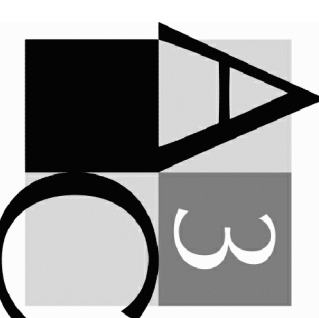
SECOND FLOOR - ROOM 2025
- NEW WORK, FURNITURE
AND FINISH PLAN

PROJECT NUMBER	12089
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ISSUE	
For Bids	02.25.13
95% CD Review	02.01.13
DRM: EJW	12.20.12
CHKD: JKC	

DRN: EJV

KC

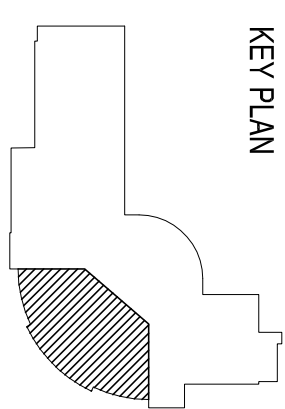


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COLLABORATIVE ARCHITECTURE

SHEET

A2.22

WSU PROJECT NUMBER
005-226260

KEY PLAN

TAG	ROOM NAME	FLOOR					BASE		WALLS				CEILING			KEYED NOTES	TAG
		1	2	3	4	5	1	2	NORTH	EAST	SOUTH	WEST	1	2	3		
2009	LECTURE	EPX-F-1	CP-1	--	--	EXT	RB-1	PT-2	PT-2,5	PT-2	(PT-2) 4A	EXT	PT-2	--	12,3,4,5,6,7,8	2009	
2009.1	PROJECTION ROOM	CP-1	--	--	--	RB-1	--	EXT	EXT	EXT	EXT	V EXT	--	--	--	2009.1	
2015	LECTURE	EPX-F-1	CP-1	--	--	EXT	RB-1	(PT-2) 4A	PT-2	PT-2,5	PT-2	EXT	PT-2	--	12,3,4,5,6,7,8	2015	
2015.1	PROJECTION ROOM	CP-1	--	--	--	RB-1	--	EXT	V EXT	EXT	EXT	EXT	EXT	--	--	2015.1	

ROOM FINISH SCHEDULE GENERAL NOTES:

- A. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE DIRECTION OF APPLICATION FOR ALL DIRECTIONAL FINISHES.
- B. SEE INTERIOR ELEVATIONS AND FLOOR PLANS FOR FINISH APPLICATION.
- C. FLOORING CONTRACTORS TO COORDINATE FINAL FURNITURE LOCATIONS BEFORE INSTALLATION WITH FURNITURE VENDOR AND ARCHITECT.
- D. EXTS. EXISTING TO REMAIN
- E. PAINT EXPOSED CONDUIT AND SURFACE PLACEMENTS TO MATCH ADJACENT WALL.

ROOM FINISH SCHEDULE KEYED NOTES:

1. PAINT EXISTING AND NEW HANDRAILS AND GUARDRAILS PT-3B.
2. PAINT EXISTING DEMONSTRATION COUNTER BASE PT-5. SEE ELEVATIONS.
3. PAINT MECHANICAL GRILLE COVERS TO MATCH WALL WHERE SHOWN ON ELEVATIONS.
4. REINFORCED MOOD TOP CAP TO RECEIVE CLEAR POLYURETHANE FINISH.
5. PAINT Gypsum BOARD CEILING SOFFITS PT-1. 65 PART OF BASE BID.
6. INSTALL ACG-I AND ACT-1 CEILING IF BID ALTERNATE 1 IS ACCEPTED.
7. INSTALL RB-I ON Gypsum BOARD WALLS ONLY.

8. PATCH ALL HOLES IN EXISTING WALLS PRIOR TO PAINTING.

ROOM FINISH SCHEDULE	NO SCALE	9
	REFD FROM: A2.22	

TAG	ROOM NAME	DOOR					FRAME		THRESHOLD	LABEL	HARDWARE SET	ELEVATION DOOR/ FRAME	DETAIL			KEYED NOTES	TAG
		SIZE (MM)	THICKNESS	MATERIAL	FINISH	CORE	GLASS	SIDELITE					MATERIAL	FINISH	HEAD		
2009A	LECTURE	FR 30' X 10'	EXT	PT-4			EXT	--	EXT	PT-3B	--	--	--	--	--	2009A	
2009B	LECTURE	30' X 10'	EXT	PT-4		--	EXT	--	EXT	PT-3B	--	--	--	--	--	2009B	
2009C	LECTURE	FR 30' X 10'	EXT	EXT, PT-4		EXT	EXT	--	EXT	EXT, PT-3B	--	--	--	--	1	2009C	
2009D	LECTURE	30' X 10'	EXT	PT-4		--	EXT	--	EXT	EXT	--	--	--	--	--	2009D	
2015A	LECTURE	FR 30' X 10'	EXT	EXT, PT-4		EXT	EXT	--	EXT	EXT, PT-3B	--	--	--	--	1	2015A	
2015B	LECTURE	30' X 10'	EXT	PT-4		EXT	EXT	--	EXT	PT-3B	--	--	--	--	--	2015B	
2015C	LECTURE	30' X 10'	EXT	PT-4		--	EXT	--	EXT	PT-3B	--	--	--	--	--	2015C	
2015D	LECTURE	30' X 10'	EXT	PT-4		--	EXT	--	EXT	PT-3B	--	--	--	--	--	2015D	

DOOR SCHEDULE GENERAL NOTES:

A. ALL DOOR HARDWARE SHALL MEET AMERICAN WITH DISABILITIES ACT (ADA) AND MICHIGAN BUILDING CODE REQUIREMENTS.
B. REFER TO PROJECT MANUAL FOR HARDWARE SETS.
C. EXT. EXISTING TO REMAIN.
D. CLEAN ALL EXISTING DOOR KICKPLATES TO REMAIN.
E. PAINT BOTH SIDES OF ALL LEAVES AND DOORS UON.
HOLD \$2000 FOR OWNERS HARDWARE MAINTENANCE ALLOWANCE WITHIN BASE BID

DOOR SCHEDULE KEYED NOTES:

1. PAINT LECTURE ROOM SIDE OF DOORS AND FRAMES PT-3B. PAINT CORRIDOR SIDE OF DOORS AND FRAMES TO MATCH EXISTING.

CODE	MATERIAL	MANUFACTURER	STYLE	COLOR	SIZE	MANUFACTURER'S CODE	NOTES
ACG-1	ACOUSTIC CEILING GRID	USG	DOWN DX/DXL	WHITE	15/16"	--	USED IN ALT #1
ACT-1	ACOUSTIC CEILING TILE	USG	FROST CLIMAX PLUS	WHITE	24"x24"	48	USED IN ALT #1
CF-1	CARPET	SHAW CONTRACT	EVOLOYE	GLDM WITH FLAIR	12M	60561-56235	RAMP6 AND FRONT TO FRONT OF SEATING, SEE PLANS
EPXF-1	EPOXY FLOOR	PPG	AQUAFON MB 38-1 SERIES 6	SANDSTONE	6 MIL TH.	--	--
FT-2	FLOOR TRANSITION	JOHNSONITE	SEE SPEC	BLACK	1/2" X 1/2"	SEE SPEC	AT CARPET EDGE TO EPXF-1
FT-3	FLOOR TRANSITION	JOHNSONITE	QUADRIER ROUND	BLACK	1/2" X 1/2"	QIR-307-A	AT CARPET RISER SEE DETAIL 1 ON SHEET 281
MAP-1	METAL ACOUSTIC PANELS	AL PRO	ACOUST-X	AST II SATIN	30"x30"	FDR-2081	SEE ELEVATIONS
PT-1	PAINT	SHERWIN WILLIAMS	FLAT	ALABASTER	--	SW1006	CEILING PAINT
PT-2	PAINT	SHERWIN WILLIAMS	SATIN	NAVY/LO WHITE	--	SW6126	GENERAL PAINT
PT-3A	PAINT	SHERWIN WILLIAMS	SATIN	PORTABELLO	--	SW6102	MOOD TRIM PAINT
PT-3B	PAINT	SHERWIN WILLIAMS	SEMI-GLOSS	PORTABELLO	--	SW6102	MOOD TRIM PAINT
PT-4A	PAINT	SHERWIN WILLIAMS	SATIN	STONEBARK	--	SW1933	LECTURE HALL FRONT WALL AND RAMP WALLS, LOUNGE CORRIDOR WALL
PT-4B	PAINT	SHERWIN WILLIAMS	SEMI-GLOSS	STONEBARK	--	SW1933	DEVELOPMENT COURTESY
PT-5	PAINT	SHERWIN WILLIAMS	SATIN	GRACEY	--	SW6263	LECTURE HALL BACK WALL ACCENT
RE-1	RESILIENT BASE	JOHNSONITE	COVE	BLACK	4TH	DC	LECTURE WALLS
TR-1	TREAD - NOSING	FLEX - TREAD	46 GRIT	FLAT BLACK MEDUM	3/4"	--	NS1ALL IN ASILES, SEE PLANS

DOOR SCHEDULE	NO SCALE	3
	REV'D FROM: A.11-2.22	

ROOM FINISH KEY	NO SCALE	1
REV'D FROM A211-1.22		

SHEET		WAYNE STATE UNIVERSITY SCIENCE HALL		ISSUE
		Lecture Room Upgrades - 2nd Floor		
		DOOR SCHEDULE AND ROOM FINISH SCHEDULE AND KEY		
A2.41	210 East Huron St. Ann Arbor, MI 48104 734.663.1910 F 734.663.3427 T www.a3c.com		<input checked="" type="checkbox"/> Addendum 1 For Bids 95% CD Review CHCD-JKC	02.25.13 02.01.13 12.20.12

WSU PROJECT NUMBER
005-226260

PROJECT NUMBER 12089

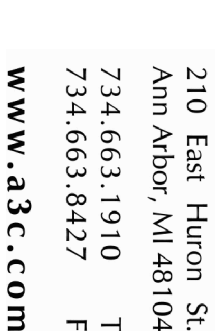
ISSUE				
✓Addendum 1	02.25.13			
For Bids	02.01.13			
95% CD Review	12.20.12			
PRN: EJV	CHK'D: JKC			

DRN: EJV CHK'D: JKC

JKC

WAYNE STATE UNIVERSITY
SCIENCE HALL
Lecture Room Upgrades - 2nd Floor

INTERIOR ELEVATIONS



COLLABORATIVE ARCHITECTURE

A5.11

A5.11



KEY PLAN



PROJECT
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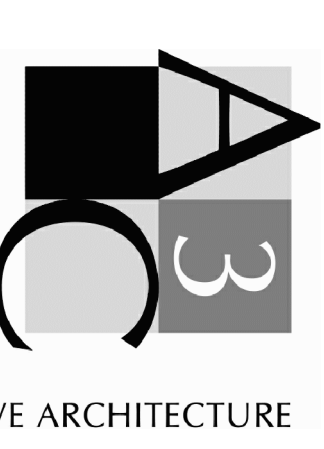
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Adendum 1 For Bids	02.25.15				
95% CD Review	02.01.15				
	12.20.14				
DRN: EJV	CHKD: JKC				

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SCIENCE HALL

Lecture Room Upgrades - 2nd Floor

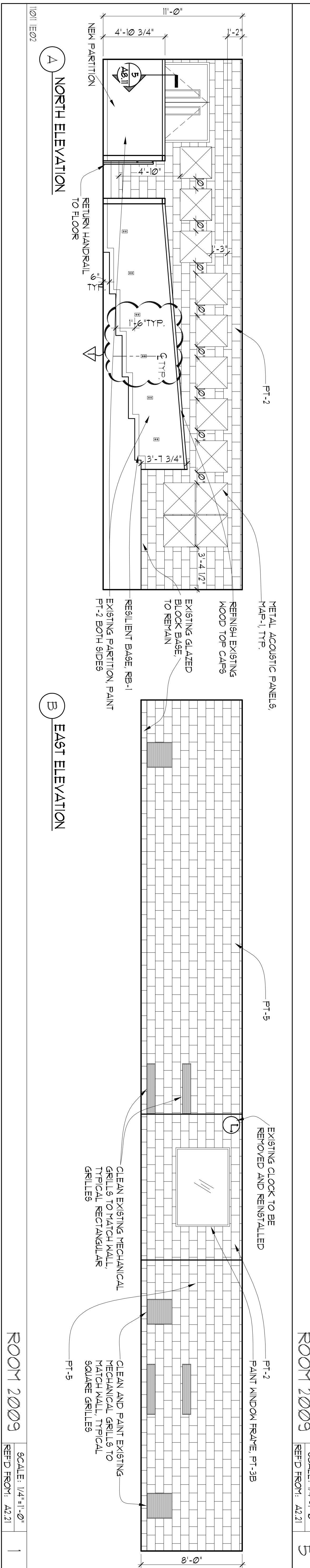
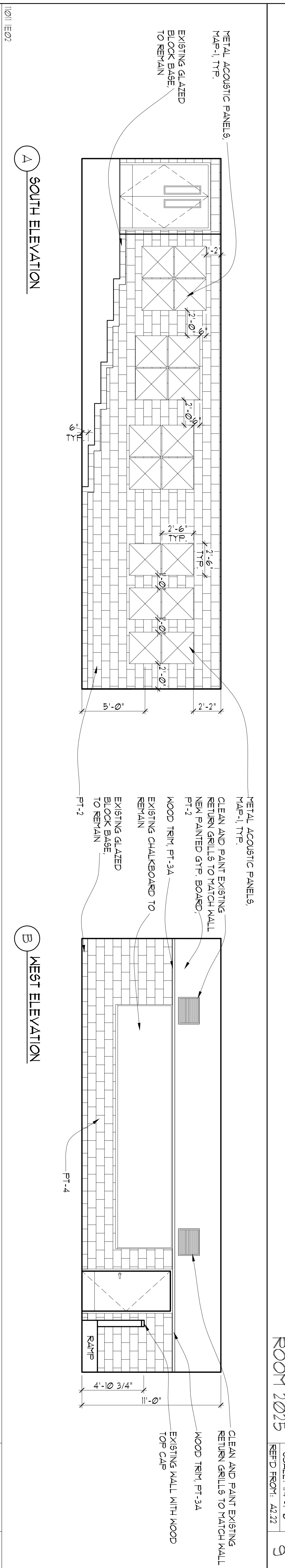
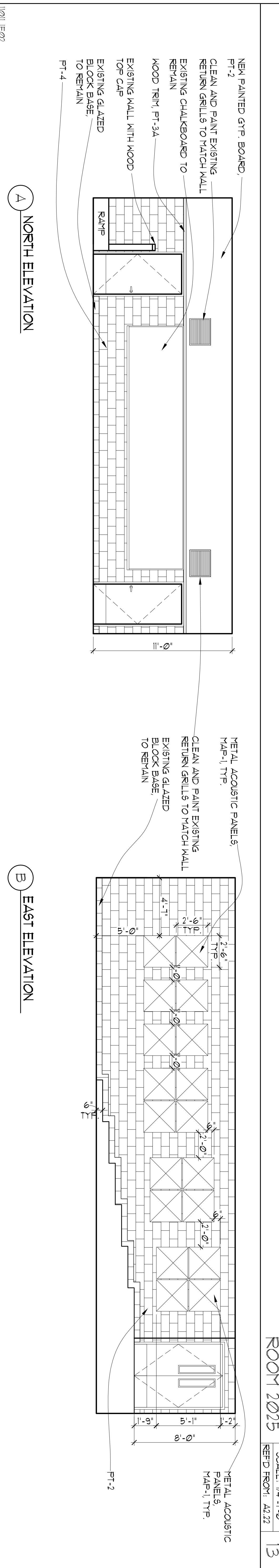
INTERIOR ELEVATIONS

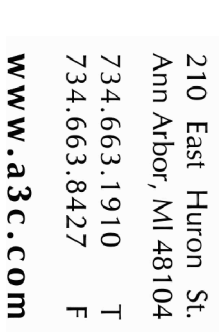


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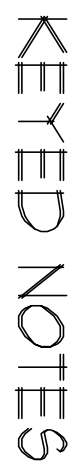
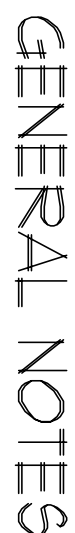
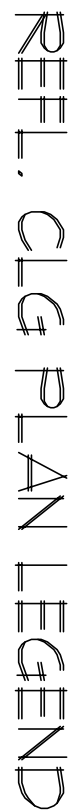




SECOND FLOOR REFLECTED CEILING PLANS AND BID ALTERNATES

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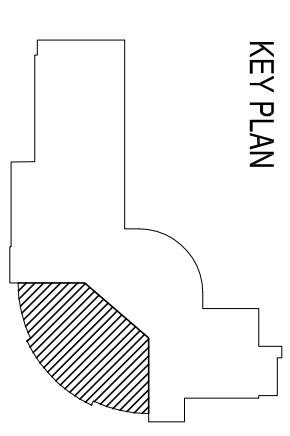
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SCALE: 1/8"=1'-0"



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


WSU PROJECT NUMBER
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PROJECT
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ISSUE				
Addendum 1 For Bids	02.25.13 02.01.13			
96% CD Review	12.20.12			
DRA: EJV	CHK'D: JKC			

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INTERIOR DETAILS



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