

DUNELAND SCHOOL CORPORATION

2018 ADDITION AT: BRUMMITT ELEMENTARY SCHOOL

GENERAL BUILDING CODE REQUIREMENTS

BUILDING CODES REFERENCED:

2012 INTERNATIONAL BUILDING CODE WITH 2014 INDIANA AMENDMENTS

2006 INTERNATIONAL PLUMBING CODE 2ND EDITION AMENDED INDIANA 2012

2008 NATIONAL ELECTRICAL CODE WITH 2009 INDIANA AMENDMENTS

2012 INTERNATIONAL MECHANICAL CODE WITH 2014 INDIANA AMENDMENTS

INDIANA ENERGY CONSERVATION CODE 2010

2012 INTERNATIONAL FIRE CODE WITH 2014 INDIANA AMENDMENTS

2012 INTERNATIONAL FUEL GAS CODE 2ND EDITION WITH 2014 INDIANA AMENDMENTS

OCCUPANCY CLASSIFICATION: EDUCATIONAL GROUP E

DESIGN FIRM REGISTRATION: THOMAS R. SZURGOT INDIANA LICENSE NUMBER: *ARIØ800173

SCHOOL BOARD

BOARD PRESIDENT

MRS. KRISTIN KROEGER

BOARD VICE PRESIDENT

MR. JOHN MARSHALL

BOARD SECRETARY

MR. BRANDON KROFT

BOARD MEMBER

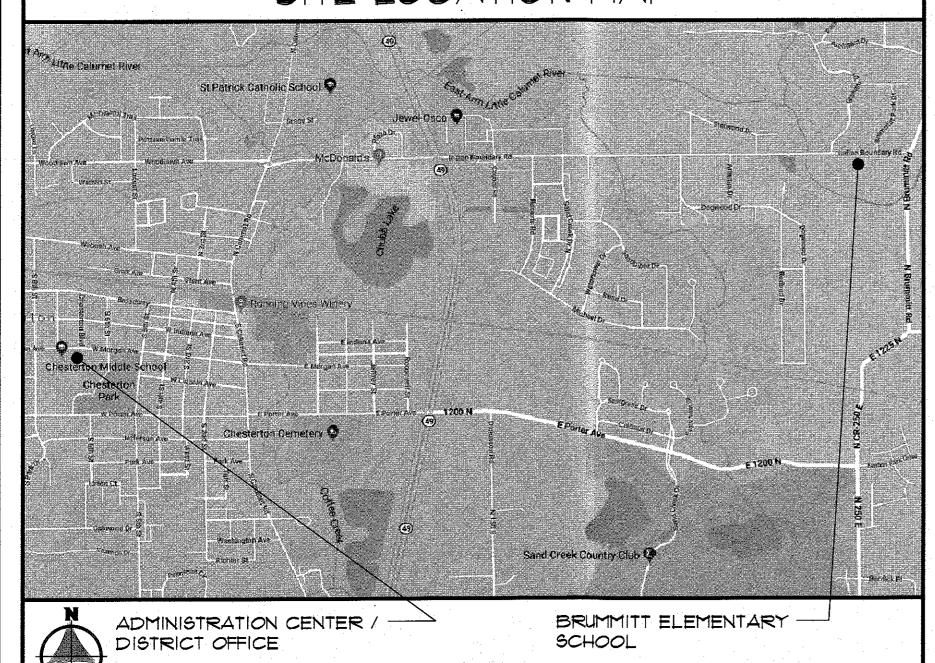
MR. MICHAEL TROUT

MR. RONALD STONE

BOARD MEMBER SUPERINTENDENT

DR. DAVID PRUIS

SITE LOCATION MAP



DRAWING INDEX

TI.00 TITLE SHEET, SITE LOCATION MAP, INDEX, AND GENERAL BUILDING CODE REQUIREMENTS

CIVIL

CLOO BUILDING SITE PLAN

ARCHITECTURAL

DOOR AND FRAME TYPES, SCHEDULE,

PARTIAL FIRST FLOOR REFLECTED CEILING PLAN PARTIAL ROOF PLAN AND DETAIL

PARTIAL FLOOR FINISH PLAN ROOM FINISH SCHEDULE AND NOTES

STRUCTURAL

SOOO GENERAL NOTES

FOUNDATION PLAN

ROOF FRAMING PLAN AND DETAILS

MECHANICAL, PLUMBING,

ELECTRICAL

MPEO.OO MECHANICAL, PLUMBING AND ELECTRICAL GENERAL NOTES

MPEOJO PARTIAL FIRST FLOOR MECHANICAL, PLUMBING

MPELIO PARTIAL FIRST FLOOR MECHANICAL, PLUMBING AND ELECTRICAL PLAN

MPE2.10 MECHANICAL, PLUMBING AND ELECTRICAL SCHEDULES AND ABBREVIATIONS

2500 INDIAN BOUNDARY ROAD, CHESTERTON, INDIANA 46304 TRIA PROJECT#: 17-063

ARCHITECT:

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www.mcmgrp.com STRUCTURAL CONSULTANT:

GREENBERGFARROW

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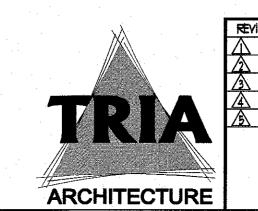
> Phone: 847.788.9200 www.greenbergfarrow.com

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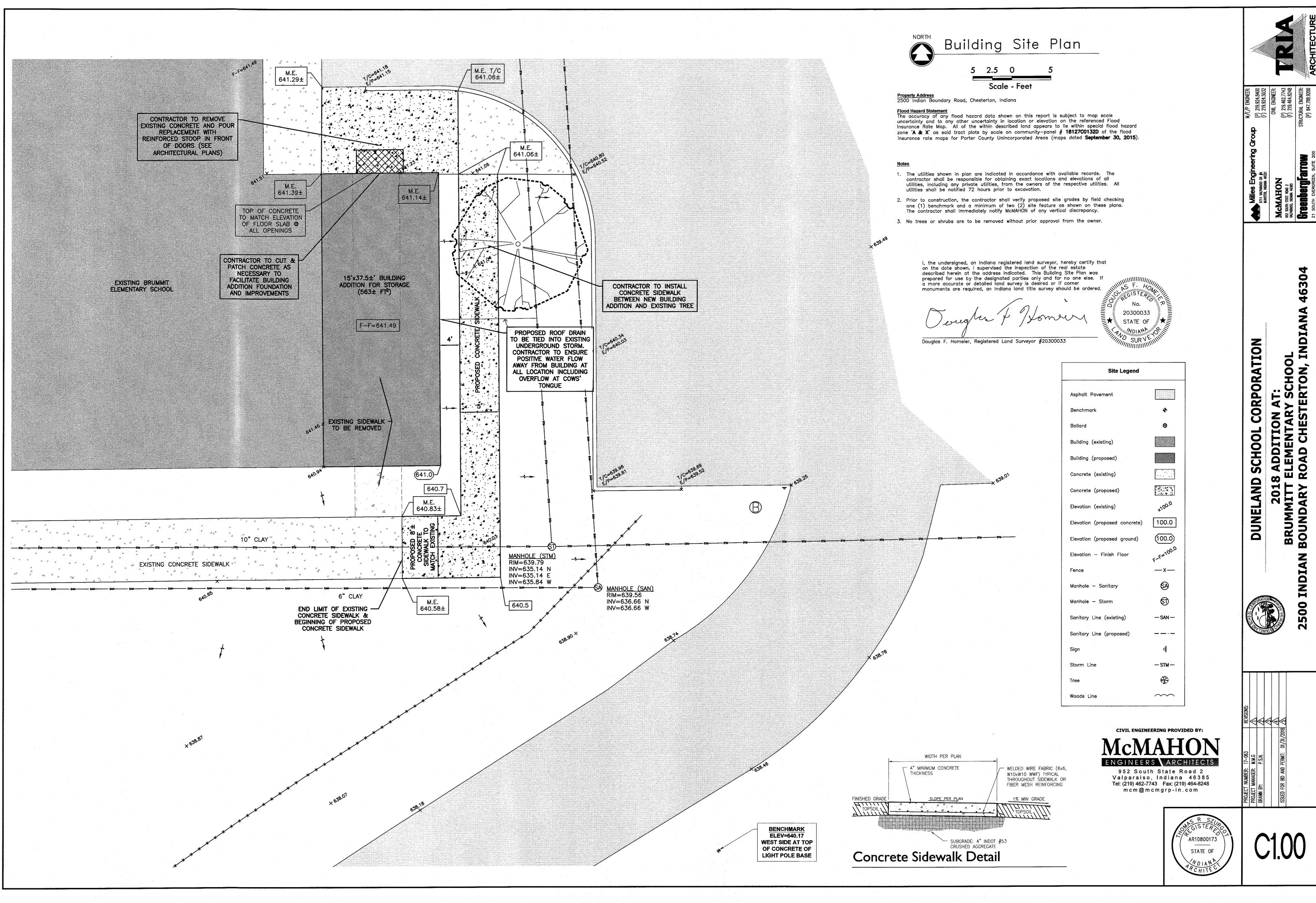
JANUARY 31, 2018

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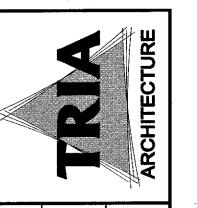
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T1.00



		DOOR MAIN ATION TAGE	2	ACCUPATION SAME		DI ACTED
SAFETY REFERENCE ROOM INFORMATION TAG	X	ROOF INSULATION TAGS	AP	ACOUSTICAL PANEL	PL	PLASTER PORCEL AIN THE
	[BCS CH	BABY CHANGING STATION COAT HOOK	PRT Pt	PORCELAIN TILE PAINT
SAFETY REFERENCE EXIT INFORMATION TAG		2'x4' RECESSED FLUORESCENT FIXTURE	CH	CERAMIC TILE	PTD	PAPER TOWEL DISPENSER
			CMU	CONCRETE MASONRY UNIT	PTTD	PAPER TOWEL TRASH DISPOSAL
SAFETY REFERENCE EGRESS PATH	©	RECESSED DOWNLIGHT	CP CP	CONDENSATE PIPE	RBR	RUBBER
			CPT CPT	CARPET	RBB	RUBBER BASE
BREAK LINE		PENDANT LINEAR LIGHT FIXTURE	CRT	CONCRETE	RBT	RUBBER TILE FLOORING
			CU	CONDENSING UNIT	RD RD	ROOF DRAIN
WINDOW TAG		2" x 4' RECESSED LINEAR LIGHT FIXTURE	DF	DRINKING FOUNTAIN	RH	ROOF HATCH
			EF	EXHAUST FAN	RTU	ROOFTOP UNIT
DOOR TAG		HVAC SUPPLY	ΕP	ELECTRICAL PENETRATION	RST	RUBBER STAIR TREADS AND RISERS
			EQ.	EQUAL	REF	REFRIGERATOR
NORTH ARROW		HVAC RETURN	ETR	EXISTING TO REMAIN	SAT	SUSPENDED ACOUSTICAL TILE
			EWC	ELECTRIC WATER CHILLER	SD	SOAP DISPENSER
SECTION TAG	+	S.A.T. CEILING	EX	EXISTING	5GT	STRUCTURAL GLAZED TILE
	+		EXP	EXPOSED	SIM	SIMILAR
EXTERIOR ELEVATION TAG		PLASTER OR GYP. BD.	FD	FLOOR DRAIN	SND	SANITARY NAPKIN DISPOSAL
EXTERIOR ELLIPATION TAG	[2]324434		FE.	FIRE EXTINGUISHER	SNP	SANITARY NAPKIN DISPENSER
	×		FE.C.	FIRE EXTINGUISHER CABINET	STL	STEEL
INTERIOR ELEVATION TAG	×	ROOM NAME TAG	FP	FIRE PROTECTION	TDU	TRASH DISPOSAL UNIT
			GB	GRAB BAR	TRZ	TERRAZZO
DETAIL TAG / DRAWING TITLE			GL	GLAZING	TTD	TOILET TISSUE DISPENSER
			GP	GAS PIPING	TV	TELEVISION
WALL TYPE TAG			GYP.	GYPSUM BOARD	TYP	TYPICAL
			НС	HANDICAPPED ACCESSIBLE	UR	URINAL
COLUMN LINE TAG			HM	HOLLOW METAL	VCT	VINYL COMPOSITE TILE
			LAY	LAVATORY	V.I.F.	VERIFY IN FIELD
ELEVATION TAG (HEIGHT)			ME.	MATCH EXISTING	√P	VENT PIPE
			M	MIRROR	WC	WATER CLOSET
REMODELING NOTE TAG			МО	MASONRY OPENING	WD	WOOD
			MTL	METAL	WF	WASH FOUNTAIN
DEMOLITION NOTE TAG			MUA	MAKE-UP AIR	WL C	WALL COVERING
			N.I.C.	NOT IN CONTRACT		

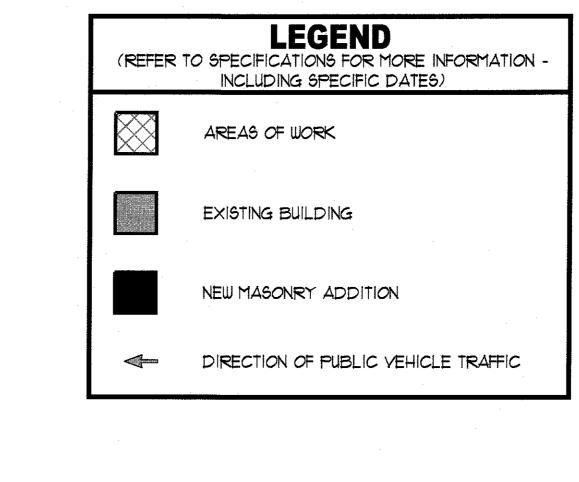


DUNELAND SCHOOL CORPORATION
2018 ADDITION AT:
BRUMMITT ELEMENTARY SCHOOL
BOUNDARY ROAD CHESTERTON, INDIANA



2500 INDIAN





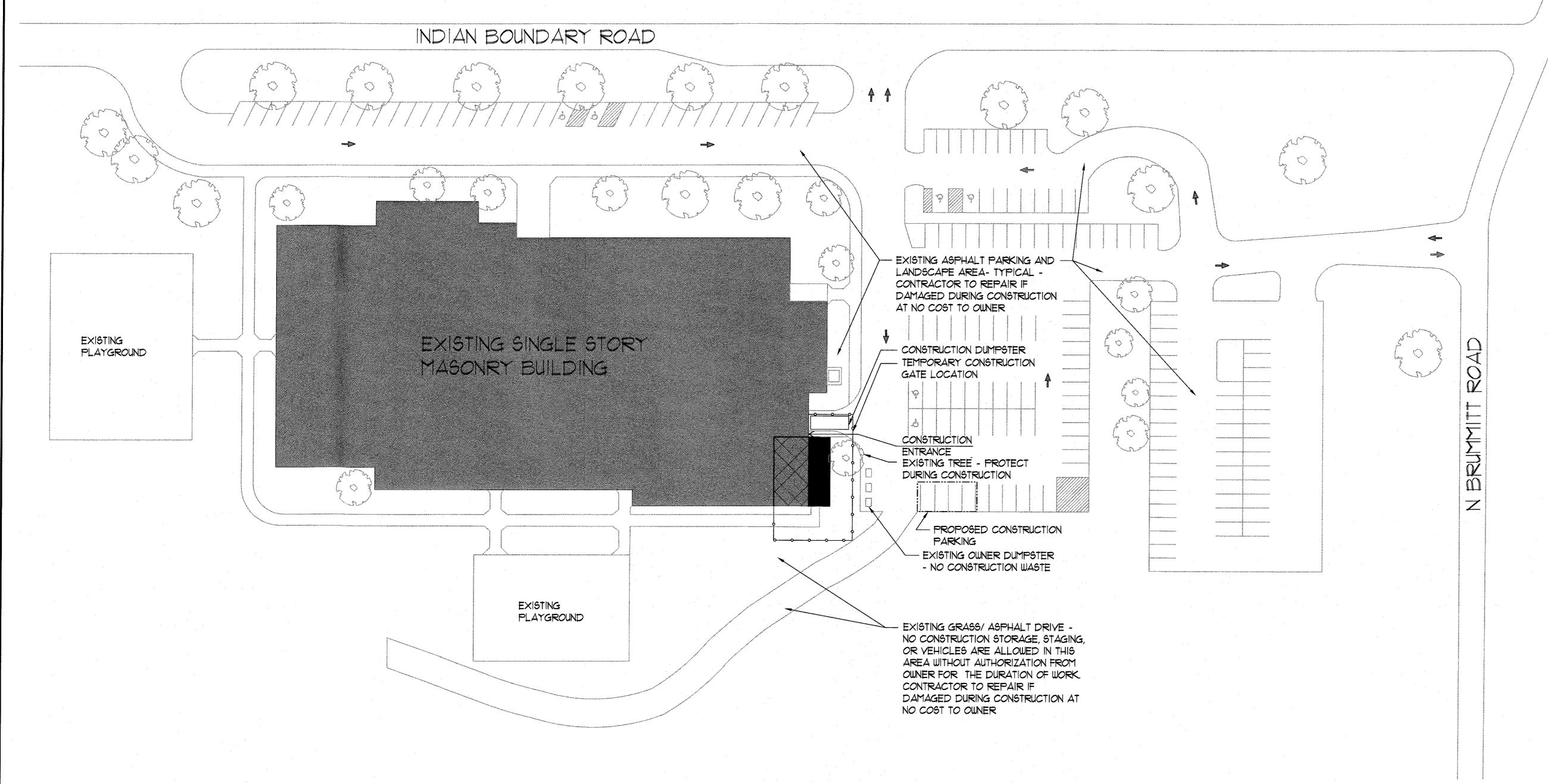
GENERAL NOTES

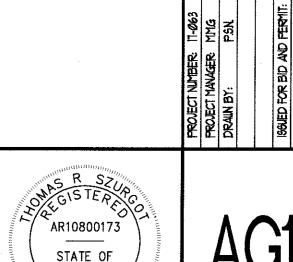
- COORDINATE DIRECTLY WITH OWNER TO SECURE ALL CONSTRUCTION ZONES AND TO SEPARATE FROM NON-CONSTRUCTION ZONES.
- 2. ANY ITEMS ON SITE DAMAGED BY CONTRACTOR DURING CONSTRUCTION SHALL BE REPAIRED TO ORIGINAL PRE-CONSTRUCTION CONDITION.

FENCING NOTES

- PROVIDE TEMPORARY FENCING AS REQUIRED TO ENCLOSE AND SECURE ALL AREAS OF EXTERIOR WORK - AT ALL TIMES. 2. COORDINATE LOCATION OF FENCING WITH
- OWNER. FENCE AREA SHOWN WAS PROVIDED BY OWNER. 3. CONTRACTOR TO COORDINATE WITH OWNER

AND OWNER'S LANDSCAPE CONTRACTOR TO PROVIDE ACCESS TO ALL FENCED AREAS FOR MOWING AND PLOWING.

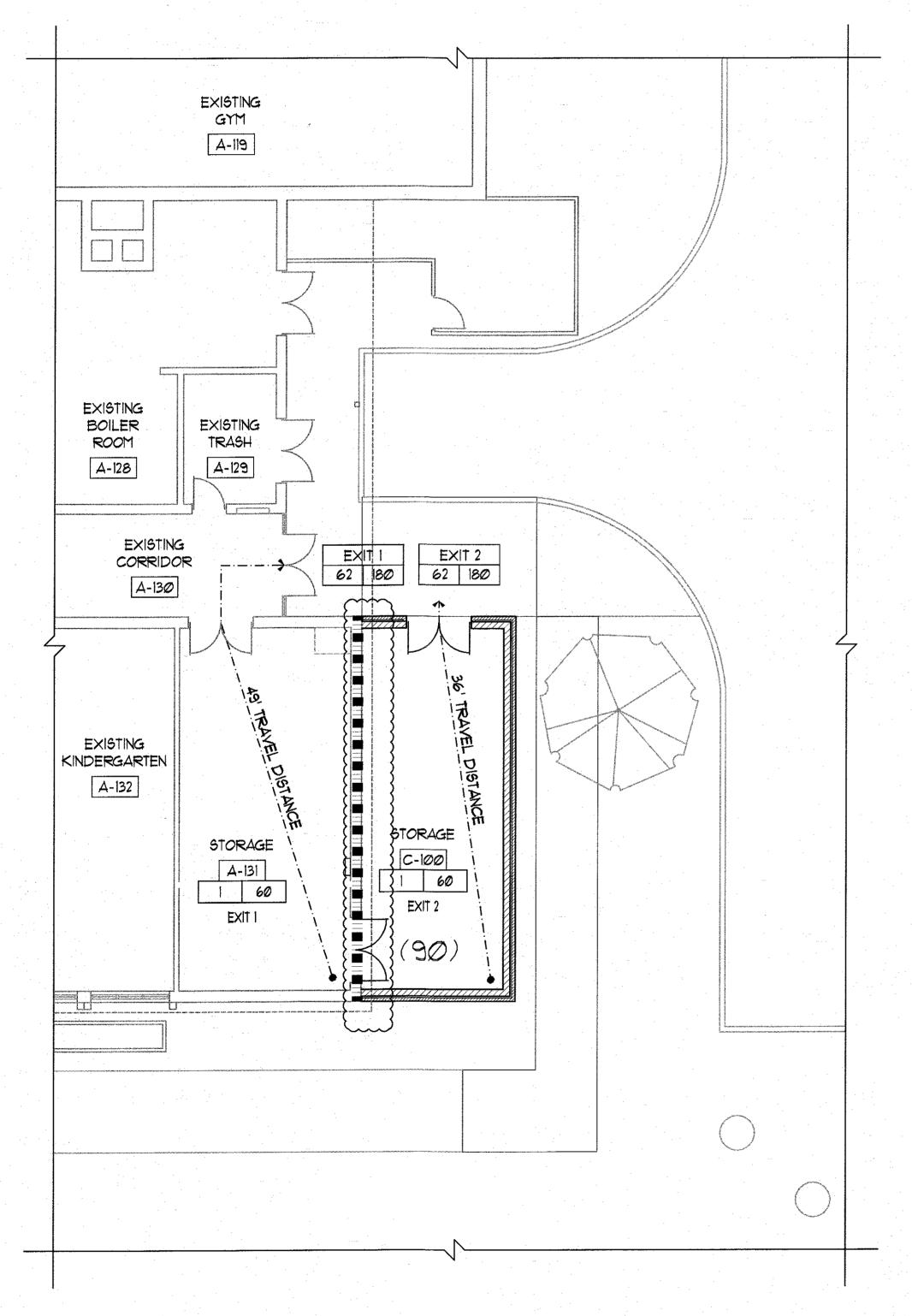




STATE OF

CONSTRUCTION OPERATIONS SITE PLAN

CORPORATION SCHOOL A HO **DUNEL AND BRUMMITT**BOUNDARY



PARTIAL FIRST FLOOR SAFETY REFERENCE PLAN

OCCUPANCY

KINDERGARTEN: 61 OCCUPANTS ART ROOM: 55 OCCUPANTS

6TORAGE: (B-31) (G-17B)

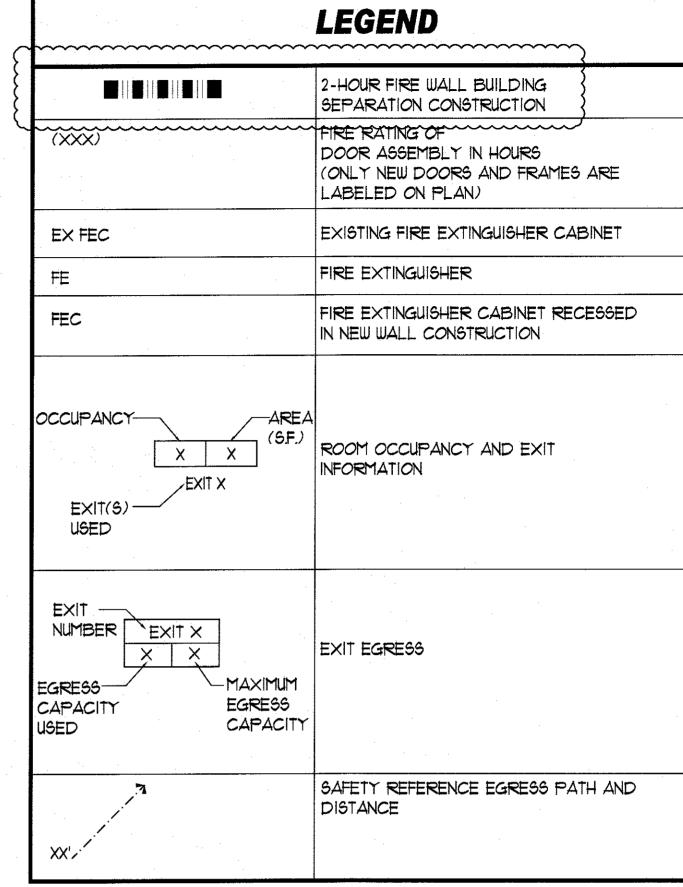
(G-17A)

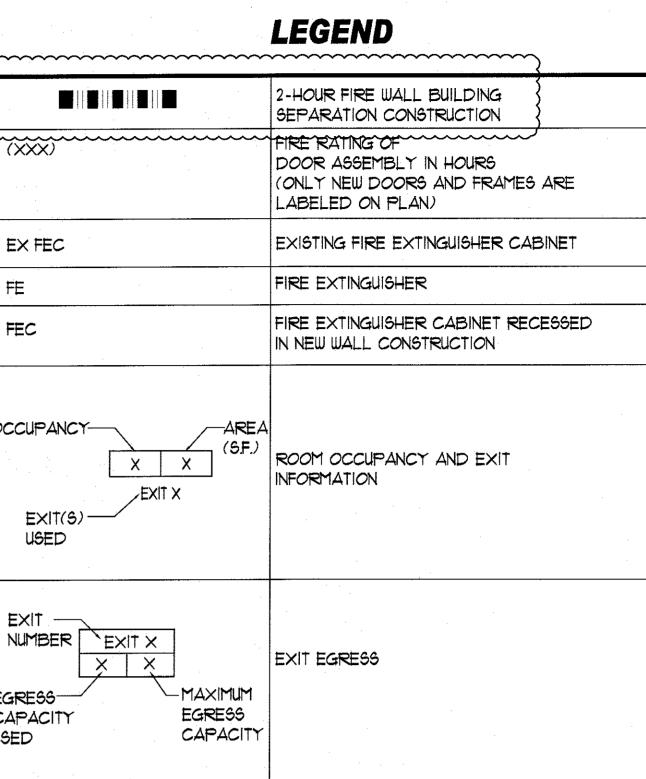
OCCUPANTS OCCUPANTS OCCUPANTS

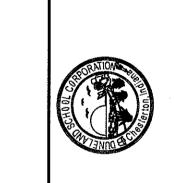
TOTAL OCCUPANCY: 119 OCCUPANTS

GENERAL NOTES

ALL WORK SHALL COMPLY WITH LOCAL, MUNICIPAL AND STATE CODES.





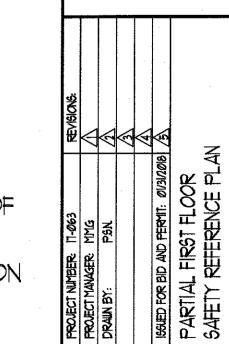


ARCHITECTURE

46304

2018 ADDITION AT:
BRUMMITT ELEMENTARY SCHOOL
BOUNDARY ROAD CHESTERTON, INDIANA

DUNELAND SCHOOL CORPORATION



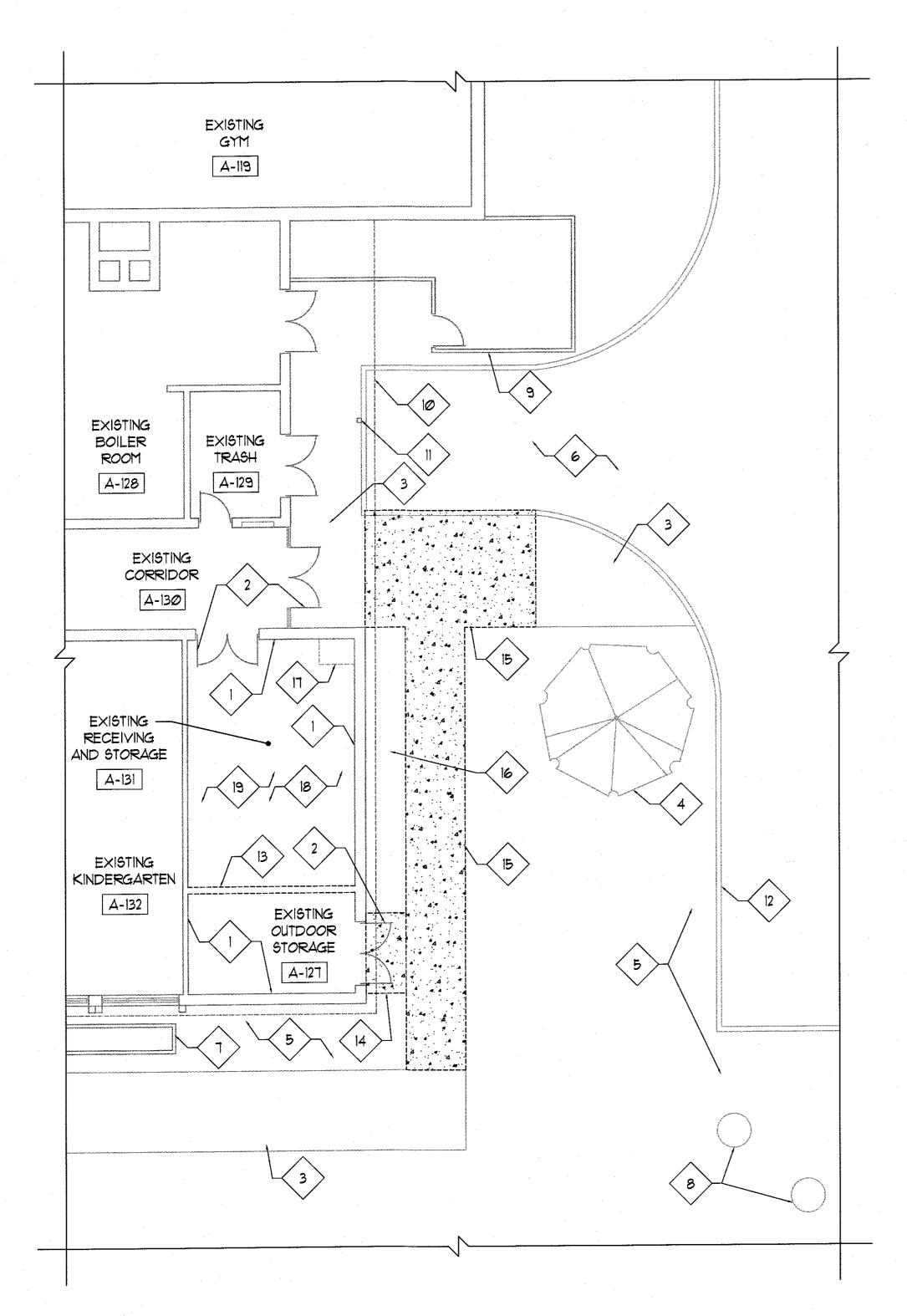






MORK

KEY PLAN NOT TO SCALE



EXISTING PLAN REFERENCED NOTES (×)

EXISTING WALL CONSTRUCTION TO REMAIN. EXISTING DOOR AND FRAME TO REMAIN - PROTECT DURING CONSTRUCTION.

EXISTING CONCRETE WALKWAY TO REMAIN.

EXISTING TREE TO REMAIN - PROTECT DURING CONSTRUCTION.

EXISTING LANDSCAPING/ GRASS LAWN TO REMAIN - PROTECT DURING CONSTRUCTION.

EXISTING ASPHALT DRIVE/PARKING AREA TO REMAIN.

EXISTING WOOD PLANTERS TO REMAIN - PROTECT DURING CONSTRUCTION.

EXISTING MANHOLE TO REMAIN - REFER TO CIVIL DRAWINGS.

EXISTING METAL PANEL FENCE TO REMAIN. 10. EXISTING LINE OF PRECAST CONCRETE PANELS ABOVE TO REMAIN.

EXISTING 5" # TUBE COLUMN TO REMAIN.

EXISTING CURB AND APRON TO REMAIN - REFER TO CIVIL DRAWINGS.

13. EXISTING WALL CONSTRUCTION TO BE REMOVED.

14. EXISTING CONCRETE STOOP TO BE REMOVED IN ITS ENTIRETY.

15. EXISTING CONCRETE WALKWAY TO BE REMOVED - REFER TO CIVIL DRAWINGS. 16. EXISTING LANDSCAPING/GRASS LAWN TO BE REMOVED - REFER TO CIVIL

17. EXISTING MECHANICAL UNIT ABOVE TO REMAIN - PROTECT DURING CONSTRUCTION.

18. EXISTING CARPET TO BE REMOVED.

19. EXISTING GYPSUM CEILING AND ASSOCIATED LIGHTS TO BE REMOVED.

LEGEND

EXISTING CONSTRUCTION TO BE REMOVED / DEMO

EXISTING CONSTRUCTION TO REMAIN

EXISTING CONCRETE WALKWAY TO BE REMOVED / DEMO

EXISTING PLAN GENERAL NOTES

REFER TO FLOOR PLANS FOR SCOPE OF NEW WORK.

FIELD VERIFY ALL EXISTING CONDITIONS. IN THE EVENT THAT AN ITEM NOT SHOWN ON THE DRAWINGS CONFLICTS WITH WORK UNDER THIS CONTRACT, CONTACT THE ARCHITECT PRIOR TO REMOVAL OF THAT ITEM. ITEMS SHOWN ARE INDICATED TO GIVE A GENERAL SCOPE OF WORK. ANY ITEMS REQUIRING REMOVAL/DEMOLITION TO PROPERLY PERFORM CONTRACT WORK BUT NOT SPECIFICALLY SHOWN, SHALL BE REMOVED BY THE CONTRACTOR AT NO ADDITIONAL COST, PROVIDING THE CONDITION WAS YISIBLE DURING BIDDING.

SHORE OR BRACE ALL EXISTING CONSTRUCTION AS REQUIRED TO PERFORM WORK. EACH CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CORING, CUTTING, PATCHING, INFILLING, REPAIRING, REFINISHING, AND REMOVAL/REPLACEMENT OF BUILDING CONSTRUCTION REQUIRED TO ACCOMMODATE THE INSTALLATION OR REMOVAL OF THEIR WORK. ALL PATCHING, REPAIRING, AND REFINISHING SHALL BE PERFORMED BY THOSE REGULARLY INVOLVED IN THAT TRADE AND SHALL MATCH THE ADJACENT CONSTRUCTION.

REMOVE ALL EQUIPMENT LOCATED ON OR WITHIN WALL CONSTRUCTION SCHEDULED TO BE REMOVED, SO AS TO NOT DISRUPT EXISTING BUILDING OPERATIONS. DISCONNECT ALL ELECTRICAL WIRING, PULL WIRE BACK TO NEAREST JUNCTION BOX OR TO SERVICE.

PROTECT ALL EXISTING FINISHES, EQUIPMENT, AND ADJACENT WORK NOT SCHEDULED TO BE REMOVED FROM DAMAGE DURING CONSTRUCTION. ANY DAMAGED FINISHES, EQUIPMENT, OR ADJACENT SURFACES SHALL BE REPAIRED OR REPLACED BY CONTRACTOR AT NO ADDITIONAL COST TO OWNER. REFER TO STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND FIRE

PROTECTION DRAWINGS FOR ADDITIONAL INFORMATION. 8. THE OWNER HAS FIRST RIGHT OF REFUSAL FOR ANY MATERIAL, EQUIPMENT OR

FIXTURE TO BE REMOVED

WHERE POSSIBLE - RUN NEW ELECTRICAL WORK INSIDE WALL AND CEILING CONSTRUCTION (NEW AND EXISTING) - REMOVE EXISTING WALL/CEILING CONSTRUCTION SCHEDULED TO REMAIN AS REQUIRED TO PERFORM WORK INDICATED - PATCH ALL CONSTRUCTION TO PROVIDE A FINISHED CONDITION.

10. AT ALL EXISTING GRASS AREAS, LANDSCAPING ITEMS OR CONCRETE/ASPHALT SURFACES TO REMAIN - PROTECT DURING CONSTRUCTION AND REPAIR ANY AREAS DAMAGED OR OTHERWISE AFFECTED DURING CONSTRUCTION.

REMOVE/RELOCATE ALL ACCESSORIES ON WALL CONSTRUCTION TO BE REMOVED. GENERAL CONTRACTOR TO COORDINATE ALL ARCHITECTURAL WORK WITH INDICATED STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND FIRE PROTECTION WORK - NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO

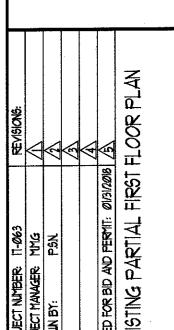
PERFORMING WORK. 13. PATCH ALL EXISTING OPENINGS AT ALL EQUIPMENT SCHEDULED TO BE REMOVED, INCLUDING ABOVE CEILING- MATCH EXISTING WALL CONSTRUCTION IN MATERIAL THICKNESS, SIZE AND COLOR, UNLESS NOTED OTHERWISE - REFER TO MECHANICAL, ELECTRICAL STRUCTURAL AND FIRE PROTECTION DRAWINGS.

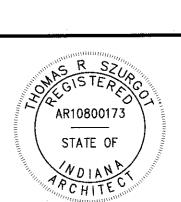


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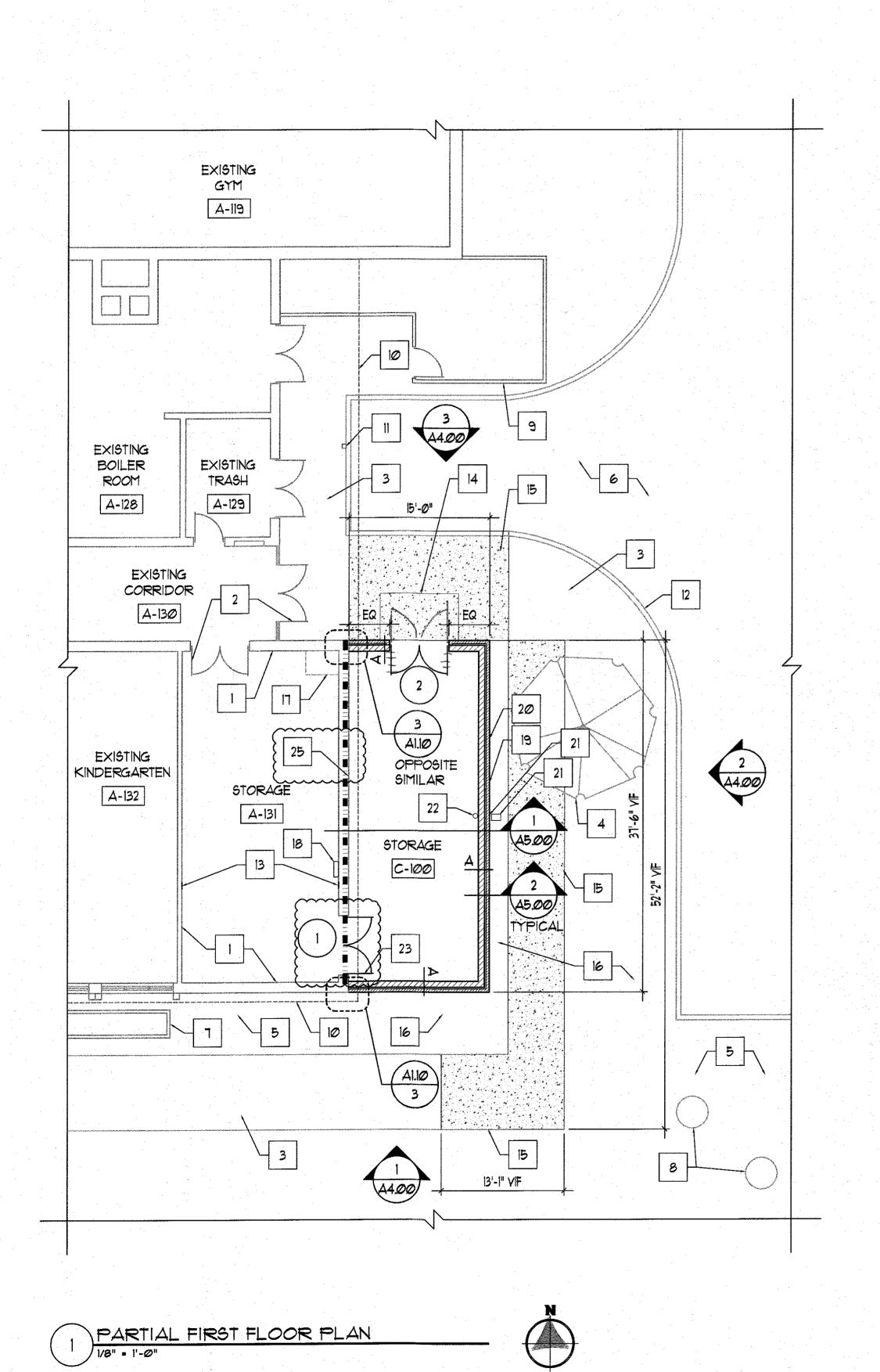


-AREA OF

WORK



EXISTING PARTIAL FIRST FLOOR PLAN



FLOOR PLAN REFERENCED NOTES ×

EXISTING WALL CONSTRUCTION.

EXISTING DOOR AND FRAME.

EXISTING CONCRETE WALKWAY. EXISTING TREE - PROTECT DURING CONSTRUCTION.

EXISTING LANDSCAPING/ GRASS LAWN.

EXISTING ASPHALT DRIVE/PARKING AREA.

EXISTING WOOD PLANTERS. EXISTING MANHOLE - REFER TO CIVIL DRAWINGS.

EXISTING METAL PANEL FENCE.

10. EXISTING LINE OF PRECAST CONCRETE PANELS ABOVE.

EXISTING 5" TUBE COLUMN.

EXISTING CURB AND APRON - REFER TO CIVIL DRAWINGS.

PATCH AND PAINT WALL TO MATCH ADJACENT.

CONCRETE STOOP - REFER TO STRUCTURAL AND CIVIL DRAWINGS.

CONCRETE WALKWAY - REFER TO CIVIL DRAWINGS.

AREA OF GRADE TO BE REPAIRED WITH SEED AND BLANKET INSTALLATION.

LANDSCAPING/ GRASS LAWN TO MATCH ADJACENT - REFER TO CIVIL DRAWINGS. EXISTING MECHANICAL UNIT ABOVE.

18. NEW ELECTRICAL PANEL - REFER TO ELECTRICAL DRAWINGS.

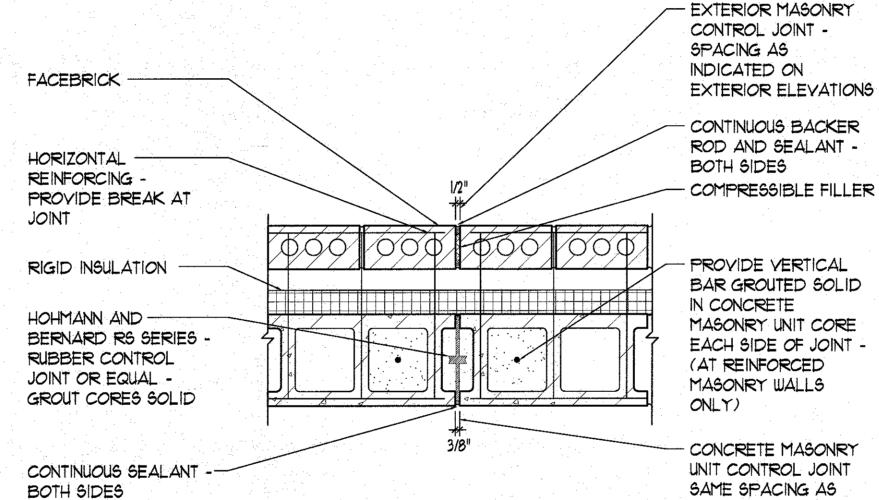
HOSE BIBB - REFER TO PLUMBING DRAWING 20. EXTERIOR POWER OUTLET - REFER TO ELECTRICAL DRAWINGS.

ROOF DRAIN DOW'S TONGUE - REFER TO DETAIL 3/A5.00.

22. ROOF DRAIN PIPE - REFER TO PLUMBING DRAWINGS. 23. EXISTING DOOR AND FRAME - PAINT INTERIOR AND EXTERIOR, PT-4.

1. BOND BEAMS TO BE CONTINUOUS THRU CONTROL JOINT.

2. ALIGN CONCRETE MASONRY UNITS CONTROL JOINT WITH EXTERIOR MASONRY CONTROL JOINT WHERE LOCATED AT DOOR AND WINDOW JAMBS.



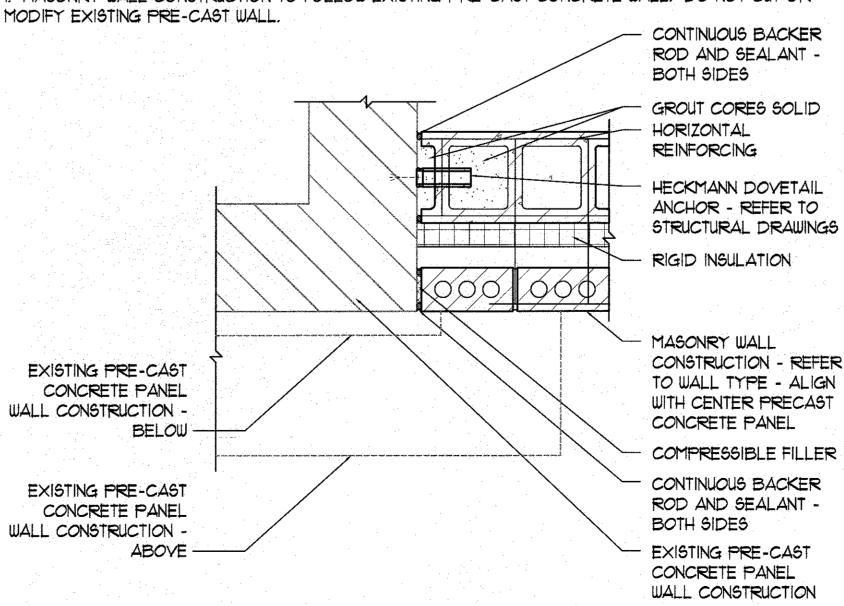
CONTROL JOINT PLAN DETAIL

CONTROL JOINT PLAN DETAIL

NOTE: 1. MASONRY WALL CONSTRUCTION TO FOLLOW EXISTING PRE-CAST CONCRETE WALL. DO NOT CUT OR

EXTERIOR MASONRY

CONTROL JOINT



GENERAL NOTES

YERIFY EXACT DIMENSIONS OF ALL EXISTING CONDITIONS IN FIELD.

ALL CONTRACTORS SHALL REPORT ALL DISCREPANCIES OR DIMENSIONAL QUESTIONS TO THE ATTENTION OF THE ARCHITECT PRIOR TO INSTALLATION.

REFER TO PROJECT MANUAL FOR PRODUCTS, MATERIALS, PROCEDURES AND ADDITIONAL INFORMATION NOT COVERED IN DRAWINGS.

PROTECT ALL EXISTING FINISHES, EQUIPMENT, AND ADJACENT WORK FROM DAMAGE DURING CONSTRUCTION. ANY DAMAGED FINISHES, EQUIPMENT, OR ADJACENT SURFACES SHALL BE REPAIRED OR REPLACED BY CONTRACTOR AT NO ADDITIONAL COST TO OWNER.

REFER TO SHEET A200 FOR DOOR AND FRAME SCHEDULE

REFER TO SHEET A200 FOR DESCRIPTION OF WALL TYPES. REFER TO SHEET A9.50 FOR ROOM FINISH SCHEDULE

PATCH, PAINT, AND CLEAN EXISTING WALLS, FLOORS, AND CEILINGS AT ALL LOCATIONS OF ITEMS SCHEDULED TO BE REMOVED. TOOTH IN MASONRY IN WHOLE UNITS. FINISH TO MATCH ADJACENT SURFACES IN MATERIAL AND TEXTURE. REFER TO ELECTRICAL, MECHANICAL, PLUMBING AND FIRE PROTECTION DRAWINGS.

PAINT ALL EXPOSED WALL, PLASTER OR GYPSUM CEILING AND SOFFIT, AND EXPOSED STRUCTURE UNLESS NOTED OTHERWISE.

ALL EXPOSED PIPING, DUCTWORK, ELECTRICAL CONDUIT, AND ALL OTHER EXPOSED MECHANICAL, ELECTRICAL, AND PLUMBING ITEMS TO BE PAINTED UNLESS NOTED OTHERWISE.

ALL HOLLOW METAL FRAMES (NEW AND EXISTING) WITHIN WORK AREAS SHALL BE PAINTED, UNLESS NOTED OTHERWISE - PAINT ALL EXPOSED SURFACES.

AT REMOVED MECHANICAL, ELECTRICAL, PLUMBING AND FIRE PROTECTION EQUIPMENT, INFILL WALL CONSTRUCTION TO MATCH EXISTING ADJACENT WALL CONSTRUCTION. IF OPENING IS BELOW CEILING - PAINT.

REFER TO MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.

14. UPON REMOVAL OF EXISTING WALLS, CONTRACTOR SHALL GRIND HIGH SPOTS OR FILL DEPRESSIONS IN FLOOR WITH A MATERIAL SUITABLE TO THE FLOORING MANUFACTURER AT LOCATIONS OF EXISTING WALLS SCHEDULED TO BE REMOVED. PROVIDE A SMOOTH FLOOR SURFACE FLUSH WITH ADJACENT SURFACES.

PROVIDE LINTELS ABOVE ALL DOORS, CUT PENETRATIONS, LOUVERS, ETC CONTRACTOR TO REPAIR/PATCH ALL EXPOSED EXISTING HOLES IN EXISTING

WALLS - FINISH TO MATCH EXISTING WALL CONSTRUCTION - AT FIRE RATED WALLS, PATCH ALL HOLES WITH APPROPRIATE MATERIAL TO PROVIDE CONTINUITY OF FIRE

17. PATCH, SMOOTH AND LEVEL EXISTING FLOOR SURFACE AS REQUIRED BY FLOORING MANUFACTURER.

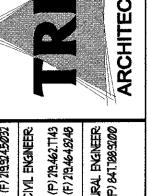


EXISTING WALL CONSTRUCTION

MASONRY WALL CONSTRUCTION

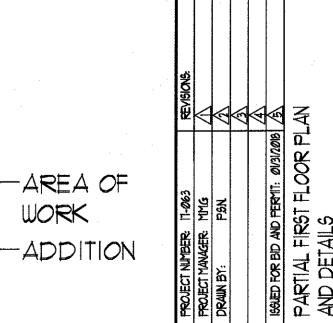
CONCRETE STOOP/ WALKWAY - REFER TO CIVIL DRAWINGS

2 HOUR FIRE WALL



CORPORATION DDITION A HOOK: 8 AI ELE ROA S 2018 BRUMMITT EL BOUNDARY R **DUNEL AND**



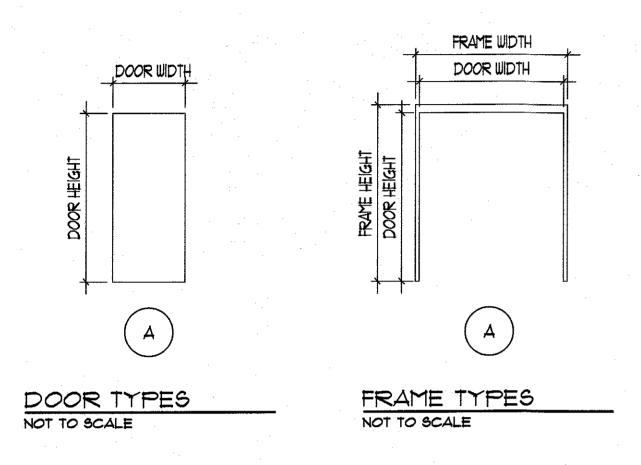


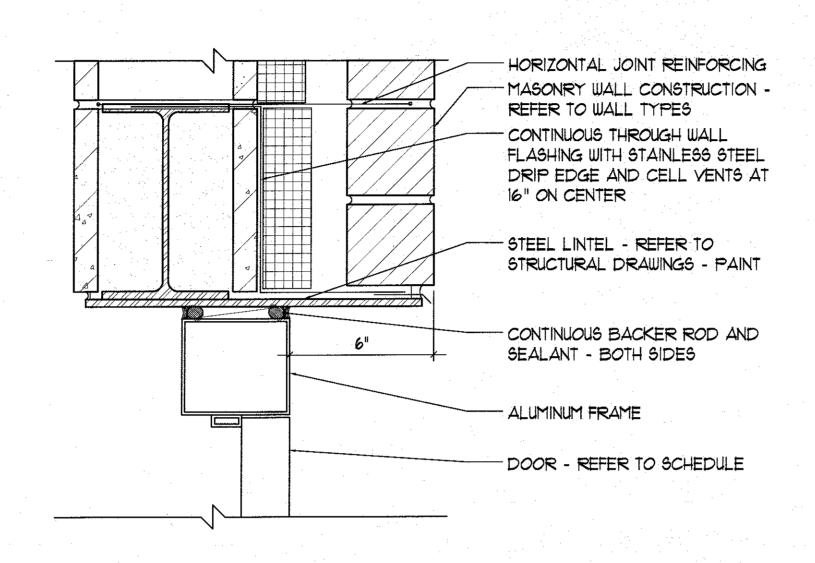
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WORK

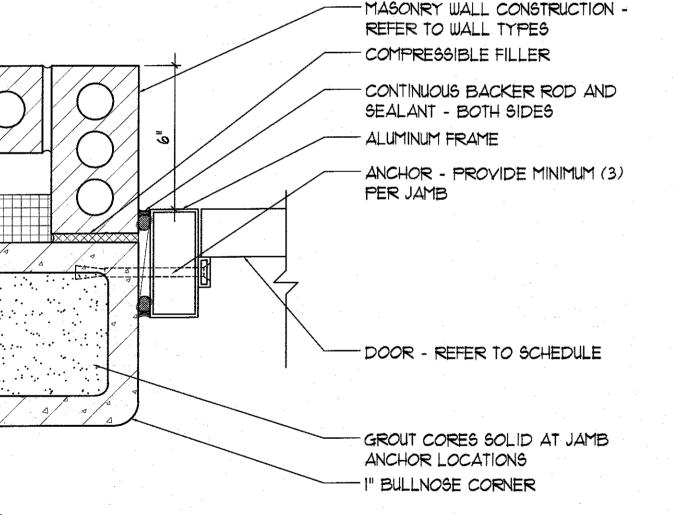


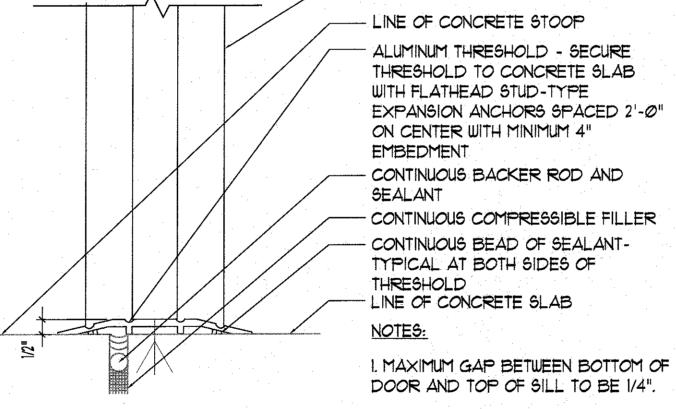
DOOR AND FRAME SCHEDULE DOOR DETAILS FRAME INT/ ROOM OPN'G REFERENCED SIZE SIZE HDWR EXT NO. NO. NOTES RATING HEAD TYPE | MAT'L MAT'L RATING SILL SET HEIGHT HOURS WIDTH HEIGHT HOURS 7'-0" VIF 7'-4" VF 5/A2.00 1-1/2 1-1/2 4/A2.00 4/A2.00 3/A2.00 C-100 2/A2.00 3/A2.00 1/A2.00 2/A2.00 PAIR 3'-0" 7'-0'



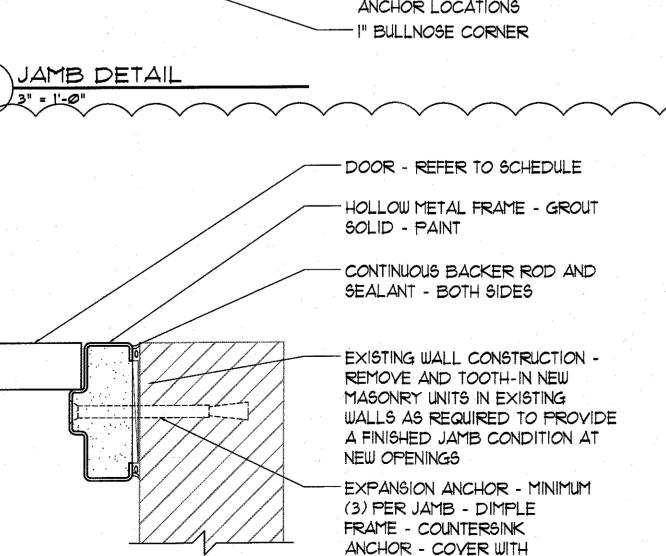








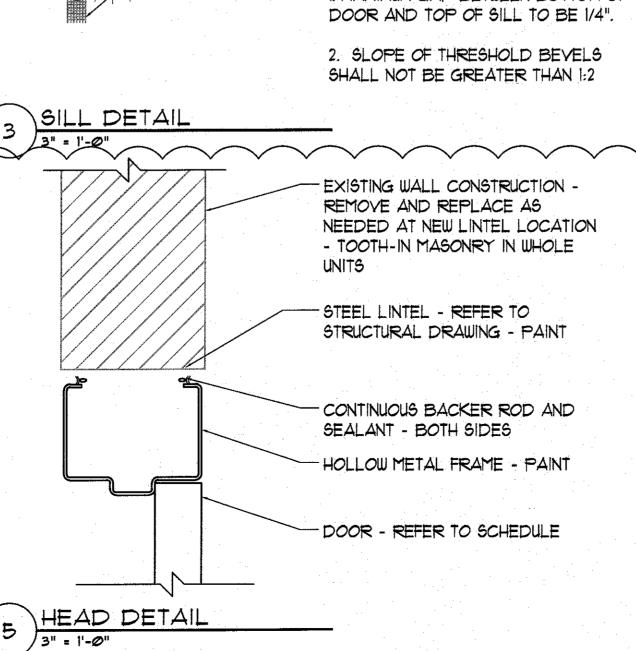
DOOR FRAME BEYOND



JAMB DETAIL

BONDO, SAND SMOOTH, PRIME

AND PAINT



DOOR AND FRAME ABBREVIATIONS

ALUMINUM FIBERGLASS REINFORCED POLYESTER MATCH EXISTING

UL# - U902

SIM SIMILAR TYP TYPICAL VIF

4" FACE BRICK

AIR SPACE-

UNITS

1 1/2" RIGID INSULATION ADHERED TO FACE OF CONCRETE MASONRY UNIT

8" CONCRETE MASONRY-

HORIZONTAL JOINT -REINFORCING AT 16" ON

CENTER VERTICALLY

MASONRY UNITS

WALL TYPES

*CARD READER TO RELEASE ELECTRIC STRIKE. *PRECISION CONTROLS CARD READER BY OTHERS.

*PRIMUS E KEYWAY (PRIMUS NUMBER P02286, LEVEL 3G).

NOT TO SCALE

FLUID APPLIED WEATHER BARRIER OVER CONCRETE

ALUM FRP ME VERIFY IN FIELD

DOOR AND FRAME GENERAL NOTES

- CONTRACTOR TO VERIFY DIMENSIONS, QUANTITIES AND CONDITIONS OF ALL ROUGH OPENINGS IN FIELD.
- REFER TO WALL TYPES FOR WALL CONSTRUCTION AT DOOR LOCATIONS. REFER TO SPECIFICATIONS FOR DESCRIPTIONS OF HARDWARE SETS.
- GROUT JAMBS SOLID AT ALL FRAMES INSTALLED IN MASONRY OPENINGS.
- ALL EXPOSED ANCHORS ON HOLLOW METAL FRAMES ARE TO BE COUNTERSUNK INTO FRAMES, COVERED IN BONDO, SANDED SMOOTH, AND PAINTED TO MATCH
 - REFER TO STRUCTURAL DRAWINGS FOR LINTEL INFORMATION.
- VERIFY DIMENSIONS OF ALL DOORS AND FRAMES TO BE INSTALLED IN EXISTING WALL OPENINGS PRIOR TO SUBMITTING SHOP DRAWINGS.
- HEIGHT OF DOOR OPERATING HARDWARE SHALL BE NO LESS THAN 34" AND NO MORE THAN 48" ABOVE FINISHED FLOOR. COORDINATE EXACT HEIGHT WITH OWNER AND ARCHITECT.
- DOOR HARDWARE SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST TO OPERATE.
- 10. DOOR OPERATING FORCE SHALL NOT EXCEED: EXTERIOR HINGED DOORS: 8.5 LB INTERIOR HINGED DOORS: 5 LB
- ALL EGRESS DOORS ARE TO UTILIZE KEYLESS LOCKETS ON THE EGRESS SIDE. NO FLUSH BOLTS, DEAD OR DRAW BOLTS, ETC. WILL BE ALLOWED.

DOOR AND FRAME REFERENCED NOTES

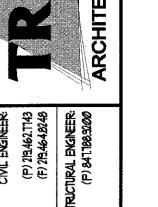
DOOR TO RECEIVE ELECTRIC STRIKE AND CARD ACCESS READER SYSTEM -REFER TO ELECTRICAL DRAWINGS.

WALL TYPE GENERAL NOTES

- PROVIDE HORIZONTAL JOINT REINFORCING AT FIRST TWO COURSES AT TOP AND BOTTOM OF ALL MASONRY WALLS AND ABOVE AND BELOW ALL MASONRY OPENINGS.
- ALL WALL TYPES ARE TO EXTEND UP THROUGH, AND AROUND, ALL STRUCTURES, AND INTERFERENCES TO MAINTAIN CONTINUITY UP TO DECK - UNLESS NOTED OTHERWISE.
- ALL WALL TYPES TO EXTEND ABOVE AND BELOW ALL OPENINGS AND PENETRATIONS.

HARDWARE SETS

	E GROUP NO. 01 ON DOOR #(S):						E GROUP NO. 02 DN DOOR #(S):			
PROVIDE	EACH PR DOOR(S) WITH	THE FOLLOWING:								
QTY 1 EA 1 EA 1 EA	DESCRIPTION CONT. HINGE CONT. HINGE POWER TRANSFER	CATALOG NUMBER 224HD 224HD EPT EPT2	₹	FINISH 628 628 689	MFR IVE IVE VON	PROVIDE E QTY 2 EA 1 SET	EACH PR DOOR(S) WITH DESCRIPTION CONT. HINGE CONST LATCHNG	THE FOLLOWING: CATALOG NUMBER 224HD FB51P	FINISH 628 630	MFR IVE IVE
1 SET	CONST LATCHING BOLT DUST PROOF STRIKE	FB51P		630 626	IVE IVE	1 EA 1 EA	BOLT DUST PROOF STRIKE STORE LOCK	DP2 L9466R 07A	626 626	IVE SCH
1 EA 1 EA	STOREROOM W/DEADBOLT	DP2 L9480R 07A		626	SCH	1 EA 2 EA	COORDINATOR MOUNTING BRACKET	COR X FL MB	US28 689	IVE IVE
1 EA 1 EA	ELECTRIC STRIKE COORDINATOR	6216 FSE COR X FL		630 US28	VON IVE	2 EA 2 EA	CLOSER DOOR SWEEP	4111 SCUSH 39A	689 A	LCN ZER
2 EA 2 EA	MOUNTING BRACKET OH STOP	MB1 90S		689 630	IVE GLY	1 EA 1 EA	THRESHOLD GASKETING	545A-223 188SBK PSA	A BK	ZER ZER
2 EA 1 EA	SURFACE CLOSER GASKETING	4011 328AA-S		689 AA	LCN ZER	1 EA	DR EDGE GASKET	488SBK PS	BK	ZER
2 EA 1 EA 1 EA 1 EA	DOOR SWEEP THRESHOLD GASKETING POWER SUPPLY	39A 625A-223 188SBK PSA PS902		A A BK	ZER ZER ZER VON	OVERLAPF	'ING ASTRAGAL BY DOO	PR MFR.		



(P) 28 (F) 29 (F) 21 (CML) (P) 21 (F) 24 (P) 24

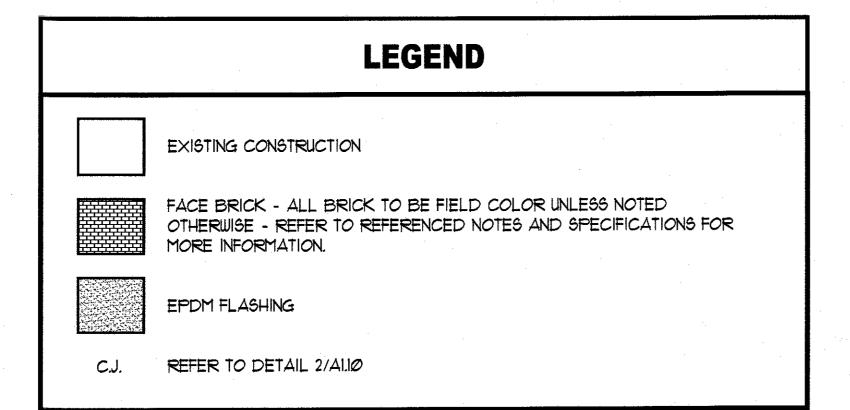
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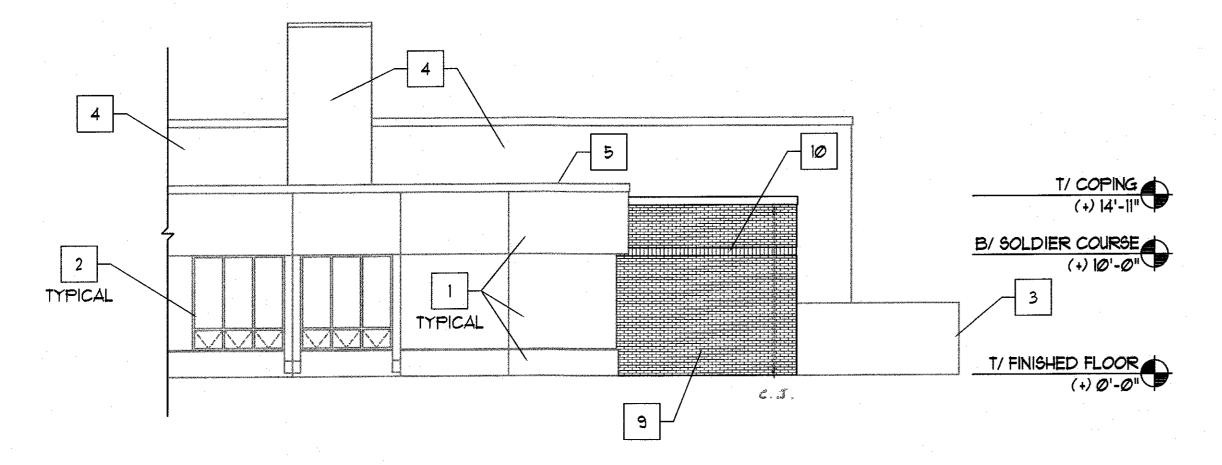
EXTERIOR ELEVATION REFERENCED NOTES

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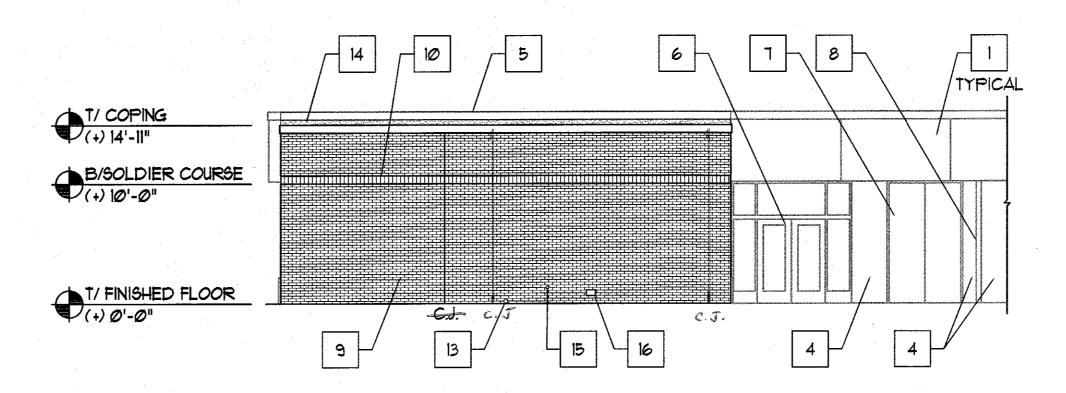
- EXISTING PRE-CAST CONCRETE WALL PANELS.
- EXISTING ALUMINUM WINDOW AND GLAZING SYSTEM.
- EXISTING METAL PANEL FENCE. EXISTING FACE BRICK
- EXISTING ALUMINUM COPING.
- EXISTING ALUMINUM STOREFRONT AND GLAZING SYSTEM.
- EXISTING DOOR AND FRAME. EXISTING 5" STEEL COLUMN.
- FACE BRICK MATCH EXISTING.
- 10. FACE BRICK SOLDIER COURSE. EXTERIOR LED WALL SCONE - REFER TO ELECTRICAL DRAWINGS.
- FIBER REINFORCED POLYESTER DOOR AND ALUMINUM FRAME.
- COWS TONGUE PIPE DISCHARGE REFER TO PLUMBING DRAWINGS
- 14. EPDM FLASHING ON EXISTING WALL BEYOND 15. HOSE BIB - REFER TO PLUMBING DRAWING.
- 16. EXTERIOR ELECTRICAL OUTLET REFER TO ELECTRIC DRAWING.

EXTERIOR ELEVATION GENERAL NOTES

- VERIFY EXACT DIMENSIONS OF ALL EXISTING CONDITIONS IN FIELD. ALL CONTRACTORS SHALL REPORT ALL DISCREPANCIES OR DIMENSIONAL
- QUESTIONS TO THE ATTENTION OF THE ARCHITECT PRIOR TO BIDDING. PROTECT ALL EXISTING FINISHES, EQUIPMENT, AND ADJACENT WORK FROM DAMAGE DURING CONSTRUCTION. ANY DAMAGED FINISHES, EQUIPMENT, OR ADJACENT SURFACES SHALL BE REPAIRED OR REPLACED BY CONTRACTOR AT NO ADDITIONAL COST TO OWNER.
- PATCH EXISTING CONSTRUCTION AT ALL LOCATIONS OF ITEMS SCHEDULED TO BE REMOVED. FINISH TO MATCH ADJACENT SURFACES IN MATERIAL AND TEXTURE -TOOTH-IN ALL MASONRY IN WHOLE UNITS - UNLESS OTHERWISE NOTED.
- PROVIDE VERTICAL CONTROL JOINTS (C.J.) AT BRICK VENEER, TYPICAL 24" FROM ANY CORNER (MINIMUM) AND 20'-0" ON CENTER (MAXIMUM) - REFER TO DETAIL 2/Al.10.

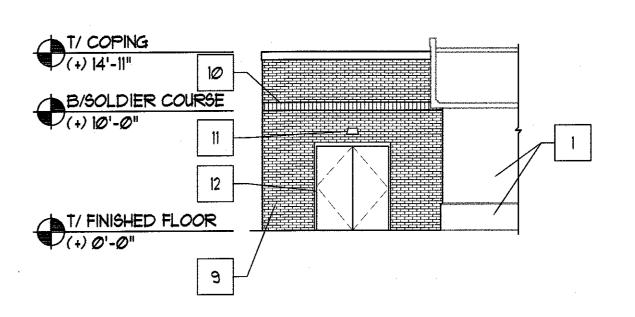






PARTIAL EAST EXTERIOR ELEVATION

CONTROL JOINTS PER TOWN PHONE CALL 6/6/18

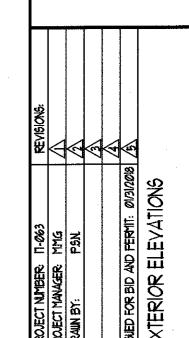


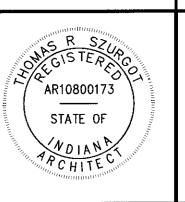
3 PARTIAL NORTH EXTERIOR ELEVATION

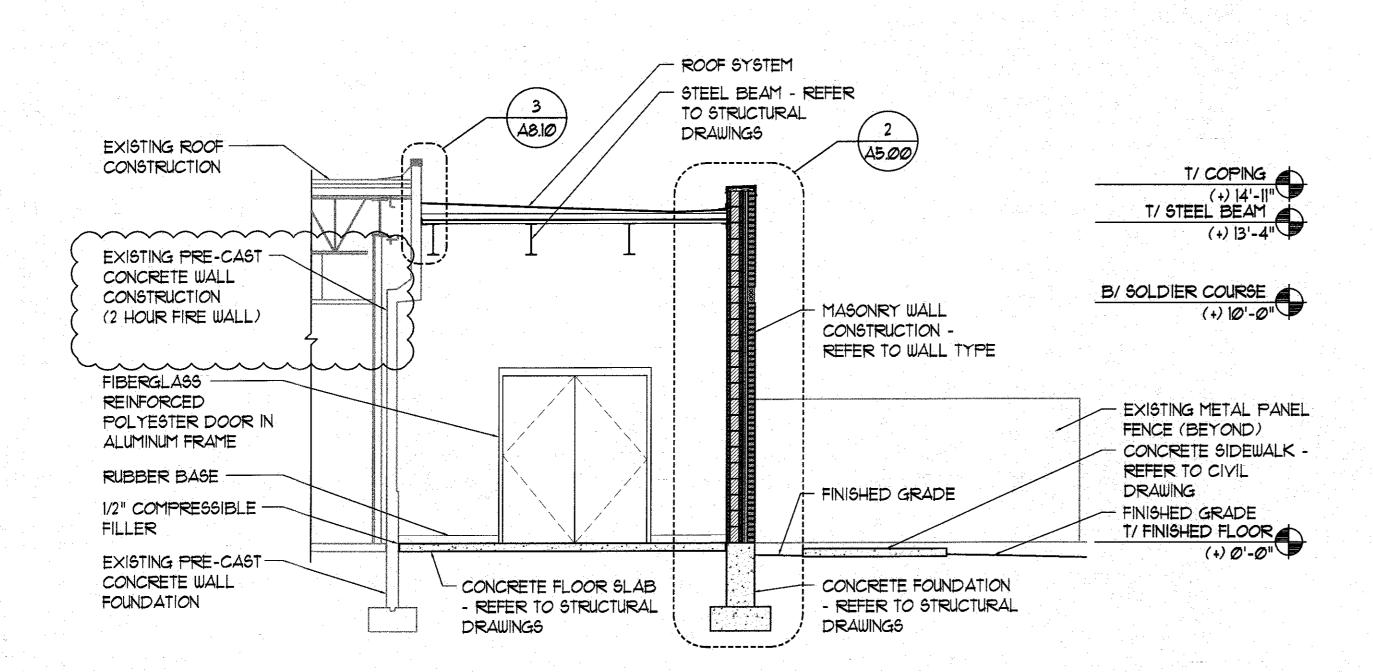


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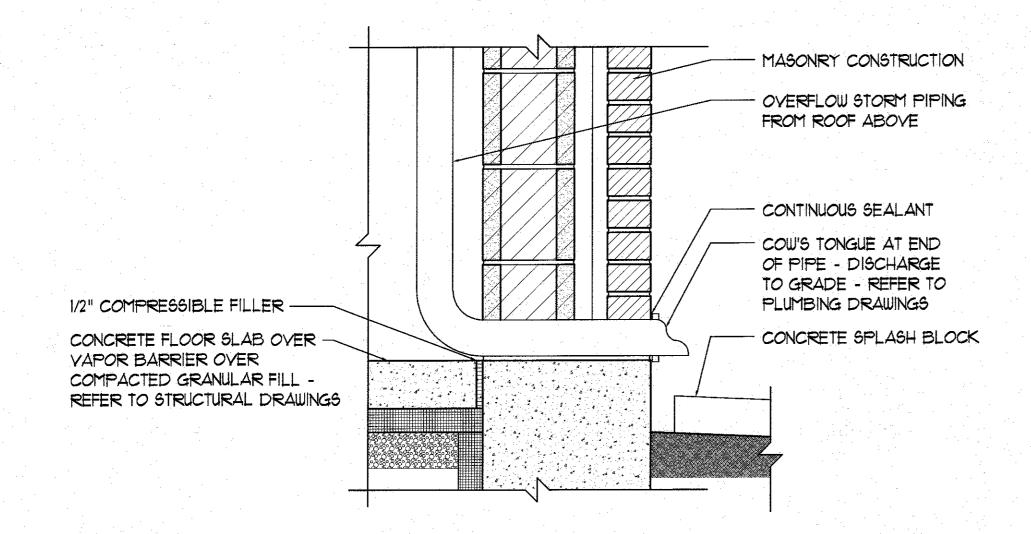
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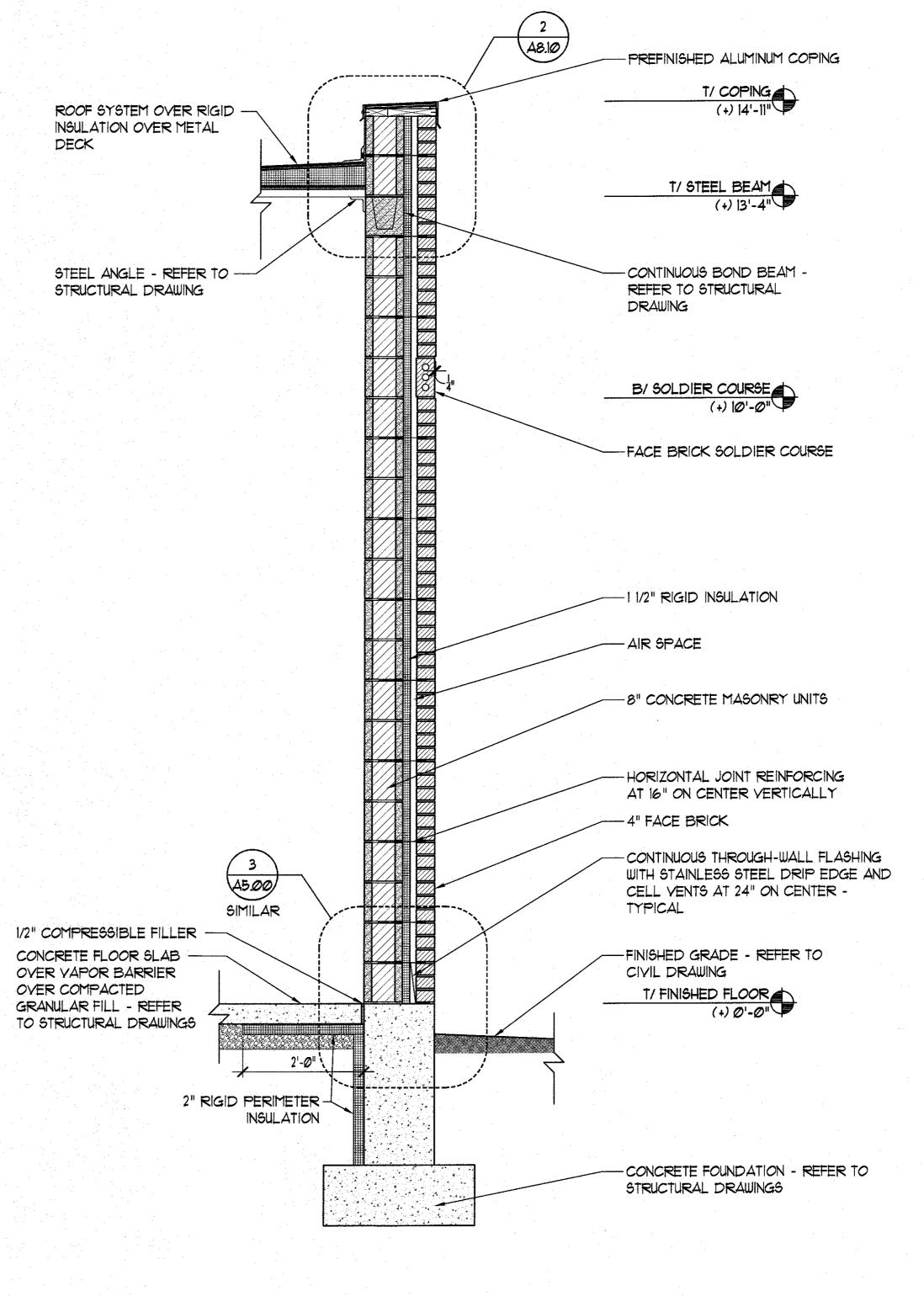




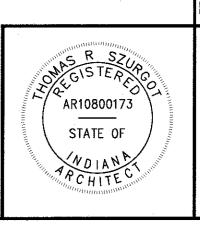




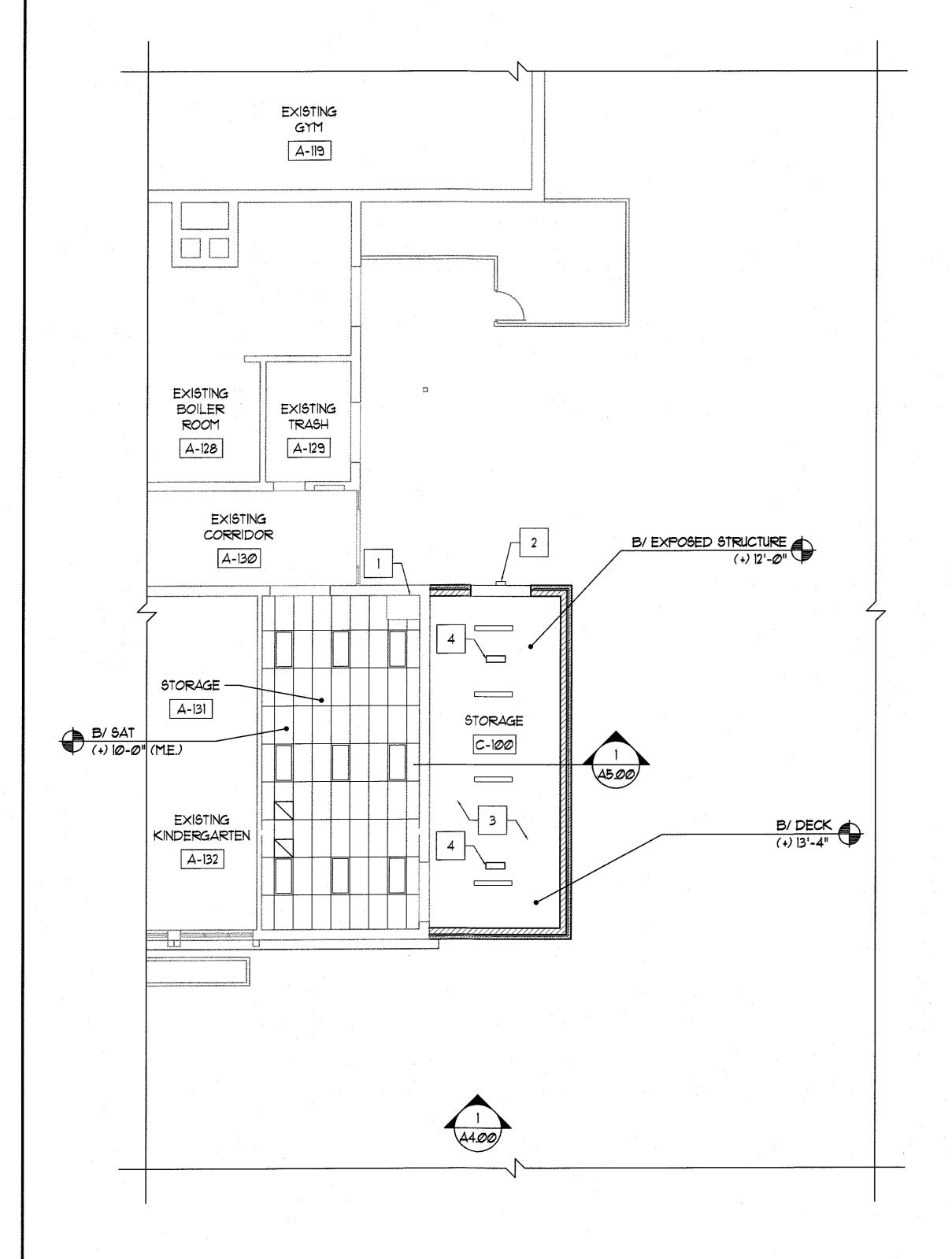
BASE DETAIL



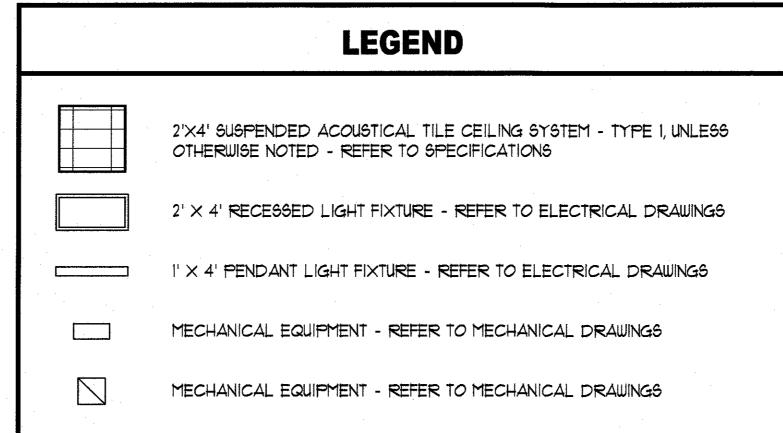
WALL SECTION



CORPORATION SCHOOL **DUNEL AND** 2018 BRUMMITT E BOUNDARY F



PARTIAL FIRST FLOOR REFLECTED CEILING PLAN



REFLECTED CEILING PLAN **GENERAL NOTES**

- REFER TO MECHANICAL, ELECTRICAL, PLUMBING AND FIRE PROTECTION DRAWINGS FOR ADDITIONAL AREAS OF ABOVE CEILING WORK REMOVE AND PATCH /OR RE-INSTALL EXISTING CEILINGS IN THESE LOCATIONS ONLY AS REQUIRED TO PROVIDE WORK INDICATED.
- CONTRACTOR TO VERIFY ALL EXISTING CEILING HEIGHTS PRIOR TO BEGINNING WORK ON ANY CEILING SCHEDULED TO RECEIVE WORK.
- FIELD VERIFY ALL EXISTING CONDITIONS. IN THE EVENT THAT AN ITEM NOT SHOWN ON THE DRAWINGS CONFLICTS WITH WORK UNDER THIS CONTRACT, CONTACT THE ARCHITECT PRIOR TO REMOVAL OF THAT ITEM. ITEMS SHOWN ARE INDICATED TO GIVE A GENERAL SCOPE OF WORK. ANY ITEMS REQUIRING REMOVAL/DEMOLITION TO PROPERLY PERFORM CONTRACT WORK BUT NOT SPECIFICALLY SHOWN, SHALL BE REMOVED BY THE CONTRACTOR AT NO ADDITIONAL COST, PROVIDING THE CONDITION WAS VISIBLE DURING BIDDING.
- SHORE OR BRACE ALL EXISTING CONSTRUCTION AS REQUIRED TO PERFORM
- EACH CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CORING, CUTTING, PATCHING, INFILLING, REPAIRING, REFINISHING, AND REMOVAL/REPLACEMENT OF BUILDING CONSTRUCTION REQUIRED TO ACCOMMODATE THE INSTALLATION OR REMOVAL OF THEIR WORK. ALL PATCHING, REPAIRING, AND REFINISHING SHALL BE PERFORMED BY THOSE REGULARLY INVOLVED IN THAT TRADE AND SHALL MATCH THE ADJACENT CONSTRUCTION.
- PROTECT ALL EXISTING FINISHES, EQUIPMENT, AND ADJACENT WORK NOT SCHEDULED TO BE REMOVED FROM DAMAGE DURING CONSTRUCTION. ANY DAMAGED FINISHES, EQUIPMENT, OR ADJACENT SURFACES SHALL BE REPAIRED OR REPLACED BY CONTRACTOR AT NO ADDITIONAL COST TO OWNER. THE OWNER HAS FIRST RIGHT OF REFUSAL FOR ANY MATERIAL OR EQUIPMENT

REFLECTED CEILING PLAN REFERENCED NOTES



- EXISTING MECHANICAL EQUIPMENT REFER TO MECHANICAL DRAWING. EXTERIOR WALL MOUNTED LIGHT - REFER TO ELECTRICAL DRAWING.
- EXPOSED DECK AND STRUCTURE PAINT.

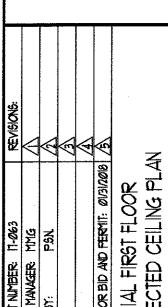
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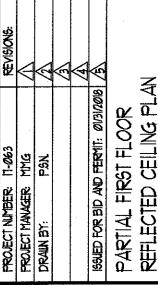
4. CEILING MOUNT MECHANICAL EQUIPMENT - REFER TO MECHANICAL DRAWINGS

CORPORATION SCHOOL

ADDITION AT:
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-AREA OF

WORK





KEY PLAN NOT TO SCALE



EXISTING ROOF AREA # * OFD 3 A8.10 A8.10

ROOF CONSTRUCTION NOTES

AT LOW SLOPE ROOF AREA

- (METAL DECK AND TAPERED INSULATION
- METAL DECK.
- INSTALL COVER BOARD MECHANICALLY FASTENED.
- INSTALL VAPOR BARRIER.
- INSTALL (2) LAYERS OF 1 1/2" RIGID
- POLYISOCYANURATE INSULATION SET IN ADHESIVE.
- INSTALL TAPERED INSULATION SET IN ADHESIVE. INSTALL 1/2" COVER BOARD - SET IN ADHESIVE.
- INSTALL 60 MIL EPDM MEMBRANE (BLACK) FULLY
- ADHERED.
- INSTALL PRE-FINISHED ALUMINUM FLASHING AND COPINGS.

0.063 PREFINISHED ALUMINUM COPING WITH CONTINUOUS STEEL CLIP SET IN SEALANT - NAIL AT 4" ON CENTER THROUGH 1/4" PREDRILLED PILOT HOLES

A820)

EXISTING ROOFING SYSTEM EXISTING PRECAST CONCRETE WALL PANEL

> - FULLY ADHERED EPDM : EXTEND UP AND OVER EXISTING PARAPET AND WOOD BLOCKING

1/2 COVER BOARD - SET IN ADHESIVE

TAPERED RIGID INSULATION - SET IN ADHESIVE

(2) LAYERS 1-1/2" RIGID INSULATION - SET IN ADHESIVE

1/2" COVER BOARD -MECHANICALLY FASTENED

METAL DECK - PAINT

STEEL STRUCTURE - PAINT -REFER TO STRUCTURAL

DRAWINGS

FLASHING NOTES

- ALL FLASHING FLANGES ARE TO BE SET IN SEALANT FIELD VERIFY ALL CONDITIONS PRIOR TO SUBMITTING SHOP DRAWINGS.
- FOLLOWING INSTALLATION OF THE FLASHING, APPLY
- SEALANT TO ALL EXPOSED LEADING EDGES. 4. ALL SCREW ANCHOR LOCATIONS TO HAVE PRE-DRILLED 5/16" PILOT HOLES.
- NON-EXPOSED NAIL FASTENERS TO BE 1-1/2" RING SHANK COPPER ROOFING NAILS.
- 6. NON-EXPOSED SCREW ANCHORS INTO WOOD TO BE
- 1-1/4" X 3/16" HHA ATLAS TYPE #A' POINT SCREWS. EXPOSED SCREW ANCHORS INTO WOOD ARE TO BE
- $1-1/4" \times 3/16"$ HHA ATLAS TYPE #A' POINT 304 SERIES. 8. NON-EXPOSED SCREW ANCHORS INTO MASONRY ARE TO BE 1-1/4" × 3/16" TAPCONS.
- 9. EXPOSED SCREW ANCHORS INTO MASONRY ARE TO BE 1-1/4" X 3/16" TAPCONS WITH CLIMASEAL CORROSION RESISTIVE COATING AND NEOPRENE WASHERS.
- 10. EXPOSED SCREW FASTENERS INTO SHEET METAL TO
- BE 3/4" X 1/4" TEKS WITH NEOPRENE WASHERS. II. ALL EXPOSED SCREW FASTENERS ARE TO BE COVERED WITH SEALANT.

ROOF PLAN GENERAL NOTES

ALL INSULATION JOINTS ARE TO BE STAGGERED. ALL GAPS IN INSULATION JOINTS GREATER THAN 1/4" ARE TO BE FILLED WITH INSULATION STRIPS.

FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO SUBMITTING SHOP DRAWINGS. ALL COUNTER FLASHING, COPING, AND MISCELLANEOUS

METAL FLASHING PIECES ARE TO HAVE SEALANT APPLIED AT THEIR END CONDITIONS. ALL EXPOSED FASTENERS TO BE CORROSION RESISTIVE, HAVE NEOPRENE WASHERS, AND BE

COVERED WITH SEALANT FOLLOWING ARCHITECT'S APPROVAL. APPLY EPDM MANUFACTURER'S SEALANT OVER

FLASHING AND COPING DETAILS.

FASTENER HEADS AT BASE FLASHING SECUREMENT. REFER TO SHEETS A821 AND A822 FOR TYPICAL

PROVIDE TAPERED INSULATION SADDLES AT ALL ROOF CURBS (NEW AND EXISTING - WHETHER INDICATED ON PLAN OR NOT) AS REQUIRED, UNLESS NOTED OTHERWISE. REFER TO DETAIL 12/A8.20.

ROOF PLAN LEGEND

ROOF DRAIN AND STORM PIPING - REFER DETAIL I/A8.20 (EPDM ROOF) AND

OVERFLOW STORM DRAIN - REFER TO

AREA OF 1/2" PER FOOT TAPERED INSULATION

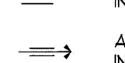
AREA OF 1/4" PER FOOT TAPERED

THICKNESS FROM TOP OF DECKING TO

PLUMBING DRAWINGS.

PLUMBING DRAWINGS.

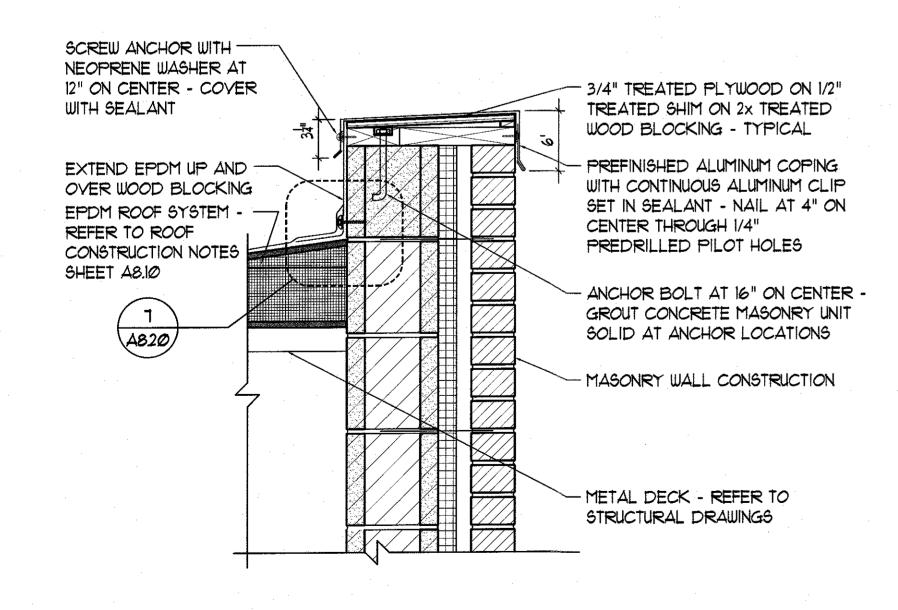
INSULATION



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BOTTOM OF ROOF MEMBRANE

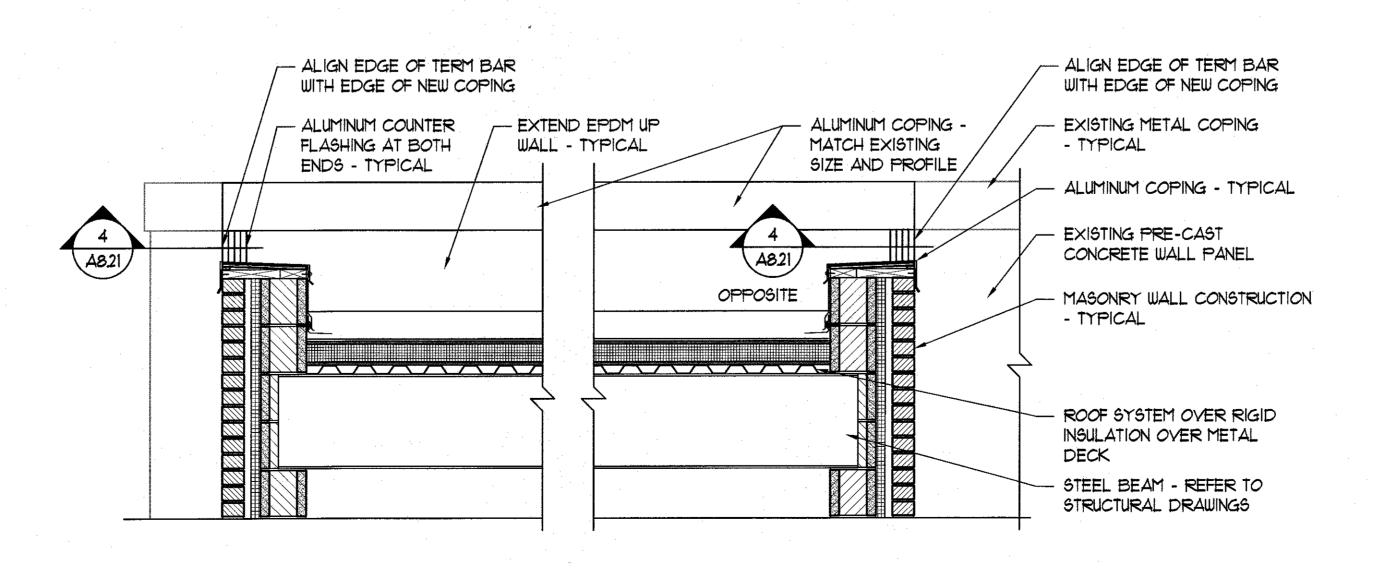
ROOF EDGE DETAIL

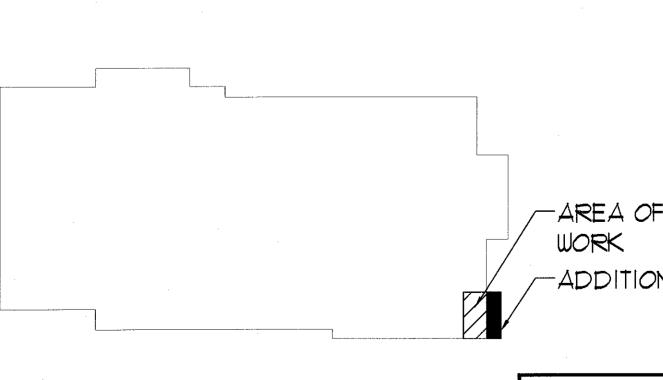


PARTIAL ROOF PLAN

COPING DETAIL

1 1/2" = 1'-0"





KEY PLAN



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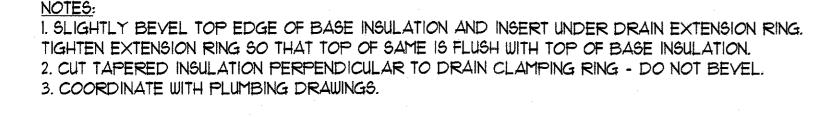
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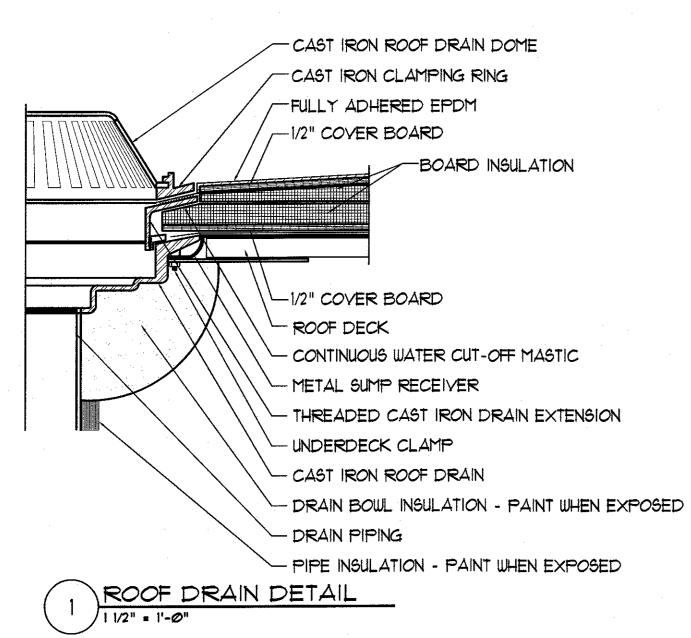
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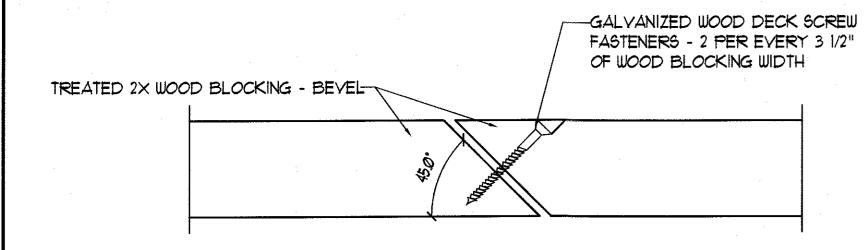
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PARAPET DETAIL

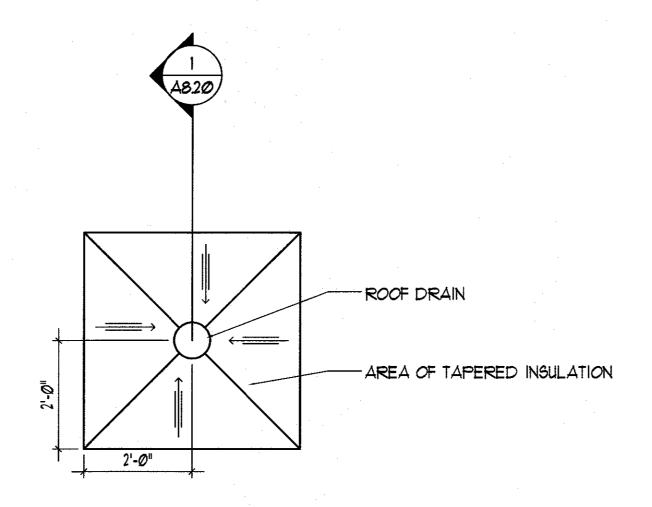




1. ALL WOOD BLOCKING TO BE TREATED. JOINTS TO BE STAGGERED, MITERED, AND SCREWED TIGHT.

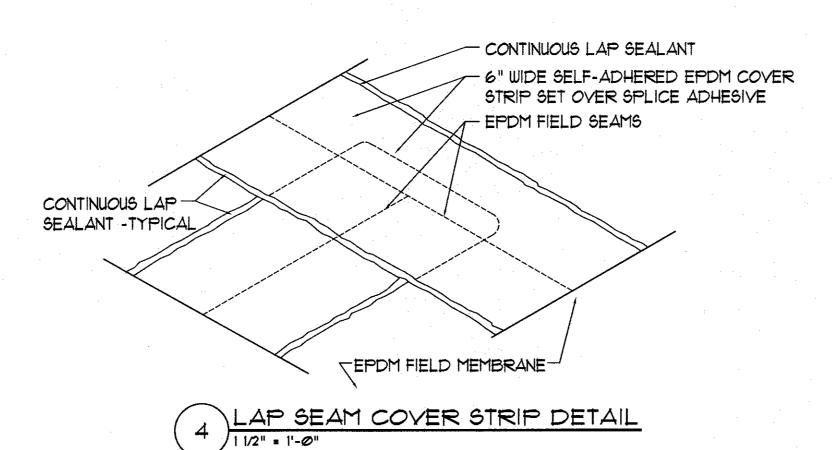


TYP. MITERED WOOD BLOCKING

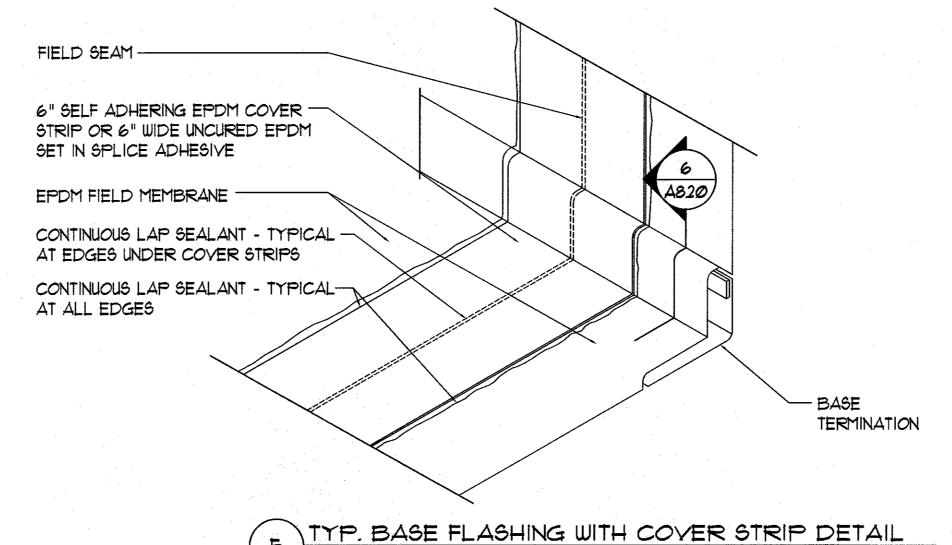


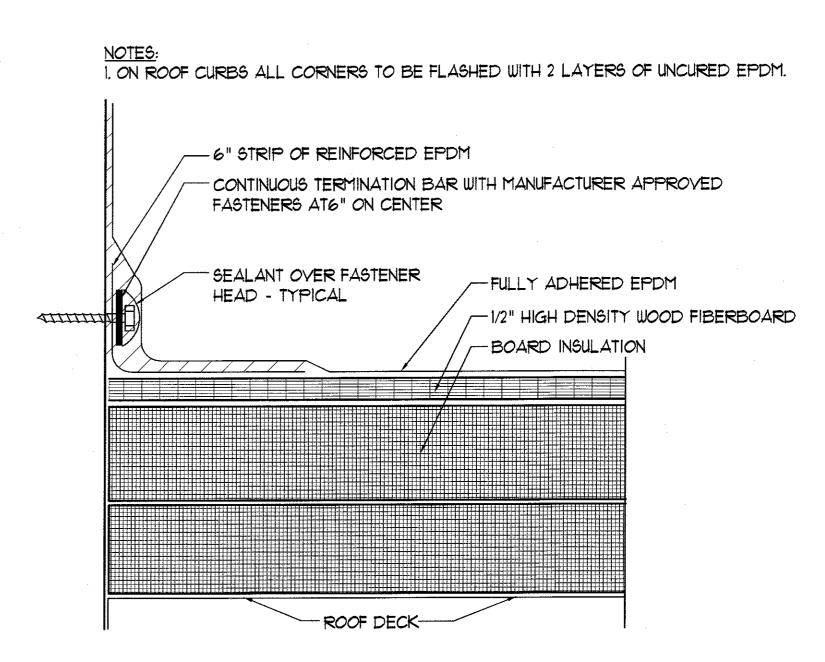
TAPERED INSULATION PLAN

1. ALL LAP SEAMS TO BE STRIPPED IN WHETHER SPLICE ADHESIVE OR SPLICE TAPE ARE UTILIZED. 2. WASH LAP SEAMS WITH WATER FOLLOWED BY SPLICE WASHING TO REMOVE CONTAMINANTS.



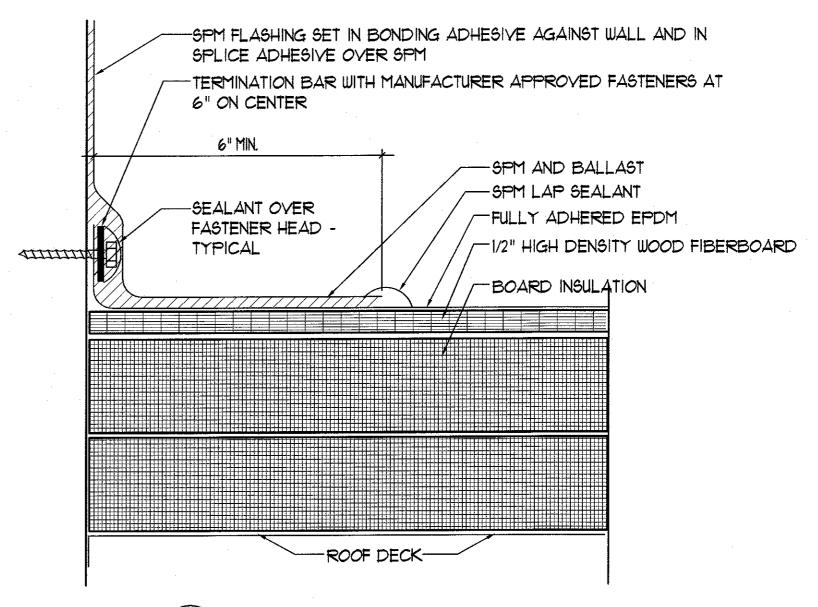
NOTES: 1. THIS BASE DETAIL IS APPLICABLE WHEN EPDM FIELD MEMBRANE IS UTILIZED AS BASE FLASHING. 2. BALLAST OMITTED FOR CLARITY.



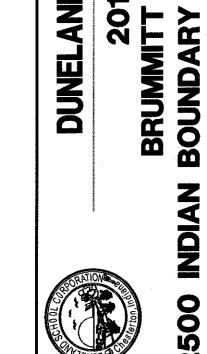




1. ON ROOF CURBS ALL CORNERS TO BE FLASHED WITH 2 LAYERS OF UNCURED EPDM.



TYP. SPM ANCHOR STRIP DETAIL



CORPORATION

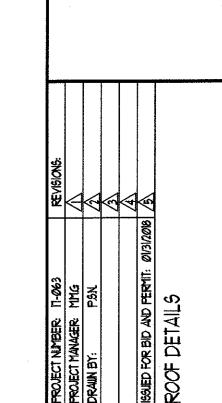
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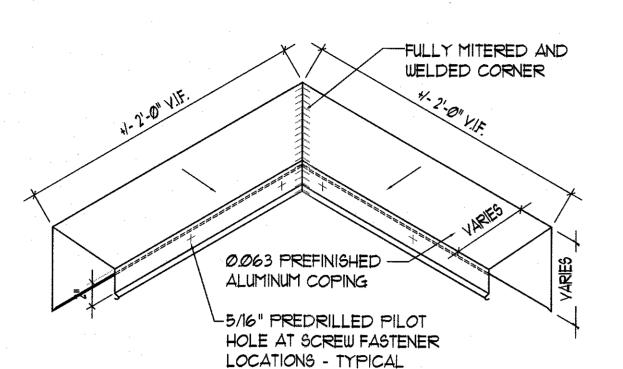
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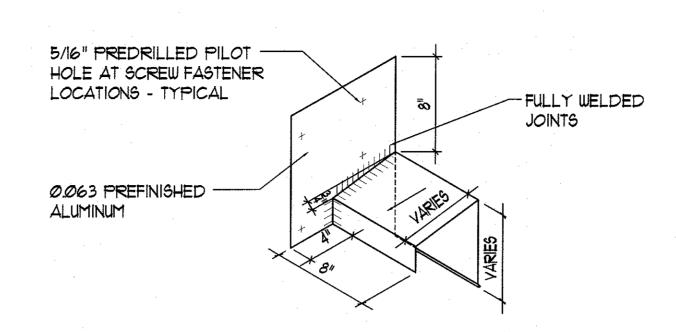
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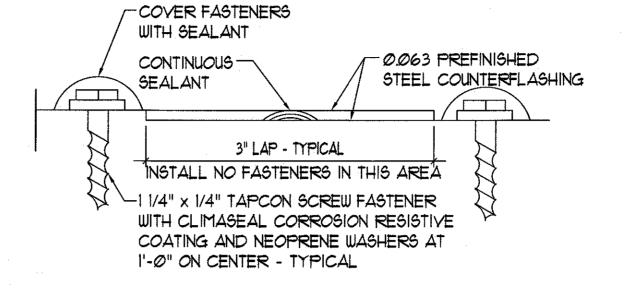
OUTSIDE CORNER COPING DETAIL

NOTES:

I. ALL CORNERS TO BE FACTORY WELDED AND POST PAINTED.



2 END WALL FLASHING DETAIL

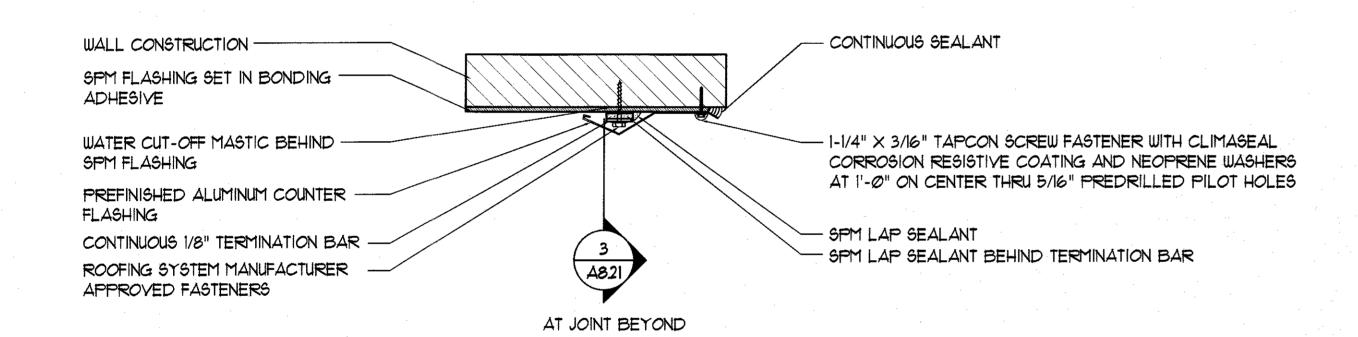


3 TYP. COUNTERFLASHING LAP JOINT

NOTES:

1. TERMINATION BAR AND COUNTERFLASHING ARE TO BE INSTALLED VERTICALLY ACROSS EXISTING PRE-CAST CONCRETE WALL PANEL.

2. TERMINATION BAR TO BE INSTALLED ON TOP OF SPM BASE FLASHING ON SAME DAY BASEFLASHING IS INSTALLED.



4 COUNTERFLASHING/SPM TERMINATION DETAIL

4 3" = 1'-0"



DUNELAND SCHOOL CORPORATION

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BOUNDARY

ROJECT NAMBER: 11-663 REVISIONG:
ROJECT MANAGER: MYGA
RAUIN BY: PSN
A
SWIED FOR BID AND FERMIT: 0/3/2018
ROOF DETAILS



48.21

EXISTING GYM A-119 EXISTING EXISTING BOILER TRASH ROOM A-129 A-128 EXISTING CORRIDOR A-130 STORAGE STORAGE A-131 EXISTING KINDERGARTEN A-132

PARTIAL FIRST FLOOR FINISH PLAN

1/8" = 1'-0"

FINISH PLAN REFERENCED NOTES

- EXISTING CONCRETE FLOOR SLAB.

 NEW DOOR THRESHOLD REFER TO 3/A2.00.
- 3. PATCH CONCRETE SLAB.

ACCORDINGLY.

CONTRACTOR TO VERIFY CONDITIONS AT EACH TRANSITION AND SIZE REDUCERS

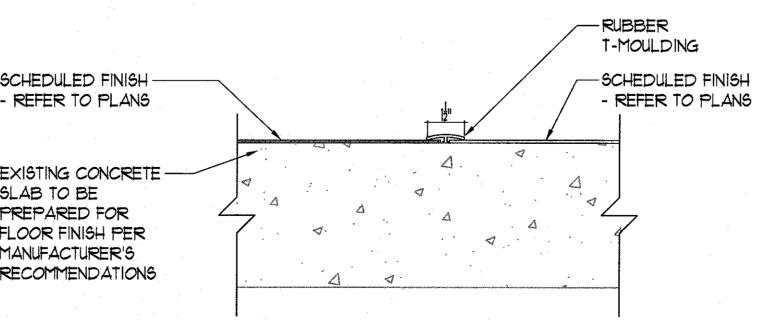
FINISH PLAN GENERAL NOTES

- REFER TO SHEET A9.50 FOR ROOM FINISH SCHEDULES AND ADDITIONAL NOTES/SCOPE.
- REFER TO SPECIFICATIONS FOR ADDITIONAL PRODUCT INFORMATION. 3. MAKE EXISTING FLOOR SLAB SMOOTH AND FLAT - OWNER TO INSTALL CARPET IN THE
- PROVIDE WALL BASE AT ALL LOCATIONS OF NEW FLOORING AND/OR NEW WALL
- CONSTRUCTION UNLESS NOTED OTHERWISE.
- 5. AT AREAS WHERE PATCHING OF WALL BASE IS REQUIRED FINISH TO MATCH ADJACENT IN MATERIAL, COLOR, HEIGHT, FINISH AND PROFILE.
- DO NOT PAINT PRE-FINISHED ITEMS, FACE BRICK, AND TILE FINISHES.
- ALL TRANSITIONS BETWEEN DISSIMILAR FLOORING MATERIALS ARE TO RECEIVE A NEW TRANSITION STRIP - REFER TO DETAIL 2/49.10.

FINISH LEGEND

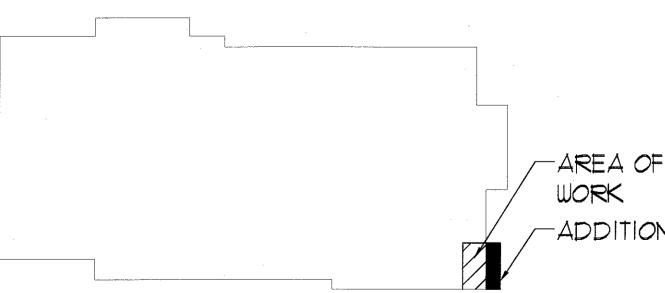
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EXPOSED SEALED CONCRETE - REFER TO SPECIFICATION

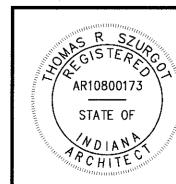




TI - TRANSITION DETAIL







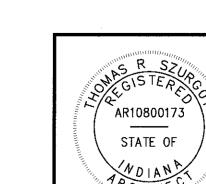
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ADDITION AT: EMENTARY SCHOOL AD CHESTERTON, IN

BOUNDARY

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SCHEDULED FINISH -- REFER TO PLANS EXISTING CONCRETE -SLAB TO BE PREPARED FOR FLOOR FINISH PER MANUFACTURER'S RECOMMENDATIONS

					RO	OM FINIS	H SCHED	ULE					
	DOOM NAME	NORTH	√ WALL	EAST	WALL	SOUTH	I WALL	WEST	WALL			ROOM SIGN	
ROOTINO	ROOM NAME	WALL FINISH	WALL BASE	CEILING	FLOORING	TYPE	REFERENCED NOTES						
FIRST FL	OOR										EPOXY FLOOR		
A-131	STORAGE	PT-1	RBB-I	PT-I	RBB-I	PT-I	RBB-1	PT-I	RBB-1	SAT-1	₹ EXP	-	1, 2, 4
C-100	STORAGE	PT-I	RBB-1	PT-I	RBB-I	PT-I	RBB-1	ETR	RBB-1	EXP/ PT-2	* CONC	-	3, 4, 5

EPORY FLOOR

FINISH LEGEND

PAINT COLOR I (FIELD COLOR)

PAINT COLOR 2 (EXPOSED METAL DECK AND STRUCTURE PAINT)

CONC SEALED CONCRETE

EXPOSED STRUCTURE - PAINT

ETR EXISTING TO REMAIN

RUBBER BASE BASE COLOR !

SUSPENDED ACOUSTICAL TILE CEILING SYSTEM TYPE I

ROOM FINISH REFERENCED NOTES

- REPAIR AND PAINT NEWLY EXPOSED AREAS OF WALL WHERE EXISTING SHELVING/CASEWORK WERE REMOVED.
- 2. AT WALL PATCHING MASONRY IS TO BE TOOTHED-IN IN WHOLE UNITS PAINT ALL NEW AND EXISTING MASONRY.
- PAINT ALL EXPOSED DECK, STRUCTURE, MECHANICAL, ELECTRICAL, PLUMBING, AND FIRE PROTECTION UNLESS NOTED OTHERWISE.
- PROVIDE RUBBER BASE AT MASONRY WALL CONSTRUCTION (NEW AND EXISTING).
- 5. DO NOT PAINT EXISTING CONCRETE PANEL WALL.

ROOM FINISH GENERAL NOTES

- ALL INTERIOR WALL AND CEILING FINISH MATERIALS SHALL BE IN ACCORDANCE WITH THE <u>2012</u> INTERNATIONAL BUILDING CODE WITH <u>LOCAL AMENDMENTS</u>.
- REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- REFER TO FLOOR PLANS AND WALL TYPES FOR WALL CONSTRUCTION. REFER TO REFLECTED CEILING PLANS FOR CEILING CONSTRUCTION.
- ALL FINISHES, FURNITURE, AND EQUIPMENT ARE TO BE PROTECTED DURING WORK. 6. ALL EXPOSED NEW CONSTRUCTION (LISTED IN THE SCHEDULE OR NOT) SHALL BE
- PAINTED, EXCEPT FOR PREFINISHED MATERIALS, UNLESS NOTED OTHERWISE. ALL EXISTING CONSTRUCTION ON SURFACES LISTED IN SCHEDULE, EXCEPT FOR
- PREFINISHED ITEMS OR FOR SURFACES LISTED AS EXISTING TO REMAIN, SHALL BE PAINTED UNLESS NOTED OTHERWISE. 8. ALL EXISTING PAINTED SURFACES IMMEDIATELY ADJACENT TO AREAS AFFECTED BY CONSTRUCTION SHALL BE PAINTED AS NEEDED TO BLEND NEW CONSTRUCTION
- INTO EXISTING AND TO TOUCH-UP DAMAGED PAINT SURFACES ON EXISTING SURFACES. 9. ALL EXPOSED PIPING, DUCTWORK ELECTRICAL CONDUIT, SPRINKLER PIPING, AND
- ALL OTHER EXPOSED MECHANICAL, ELECTRICAL, PLUMBING, AND FIRE PROTECTION ITEMS TO BE PAINTED UNLESS NOTED OTHERWISE. 10. ALL EXPOSED STRUCTURAL SURFACES INCLUDING. BUT NOT LIMITED TO, FRAMING,
- DECKING, LINTELS ETC. SHALL BE PAINTED UNLESS NOTED OTHERWISE. ALL EXISTING HOLLOW METAL DOORS AND FRAMES (ALL EXPOSED FACES) TO BE
- PAINTED, PT-4. 12. AT ALL DOORS AND FRAMES INSTALLED IN EXISTING WALL CONSTRUCTION -PATCH AND PAINT EXISTING WALL, JAMB AND HEAD SURFACES AFTER FRAME
- INSTALLATION. 13. AT ALL LOCATIONS OF EXISTING EQUIPMENT, CASEWORK, OR FURNISHINGS TO BE
- REMOVED, PAINT THE EXISTING WALL CONSTRUCTION EXPOSED BY REMOVAL OF THESE ITEMS TO MATCH EXISTING ADJACENT WALL FINISHES.
- 14. DO NOT PAINT PREFINISHED ITEMS (FACE BRICK, FIRE ALARM DEVICES, TILE FINISHES, ETC...).
- 15. ALL FLOORING SHALL BE STABLE, FIRM AND SLIP-RESISTANT AND SHALL COMPLY WITH THE STATE OF INDIANA ACCESSIBILITY CODE.
- 16. ALL FLOOR DRAINS, CLEANOUT COVERS AND ELECTRICAL FLOOR DEVICES ARE TO BE FLUSH WITH FINISHED FLOORING. REFER TO PLUMBING AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- 17. TRANSITIONS IN FLOOR FINISHES, COLORS, OR PATTERNS ARE TO OCCUR AT THE CENTER OF DOORS UNLESS NOTED OTHERWISE.
- 18. ALL TRANSITIONS BETWEEN FLOORING MATERIALS TYPES ARE TO RECEIVE A TRANSITION STRIP.
- 19. FLOOR FINISHES INDICATED IN SCHEDULE SHALL CONTINUE UNDER ALL FIXTURES, EQUIPMENT, AND CASEWORK UNLESS NOTED OTHERWISE.
- 20. PROVIDE WALL BASE AT ALL LOCATIONS OF NEW FLOOR FINISH OR NEW WALL CONSTRUCTION - UNLESS NOTED OTHERWISE.

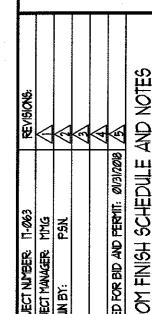


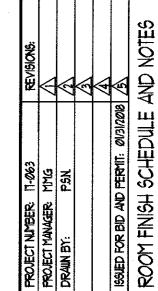
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CORPORATION ITION AT: ENTARY SCHOOL CHESTERTON, I

SCHOOL.









-AREA OF WORK



KEY PLAN NOT TO SCALE

GENERAL NOTES

DESIGN:

BUILDING CODE: 2012 INTERNATIONAL BUILDING CODE WITH 2014 INDIANA AMENDMENTS

DESIGN LIVE LOADS A. ROOF LOADS

1.1. MINIMUM ROOF LIVE LOAD 1.2. GROUND SNOW LOAD

= 30 PSF1.2.a. SNOW EXPOSURE FACTOR (CE) = 1.0 1.2.b. SNOW IMPORTANCE FACTOR (IS) = 1.0

1.3. FLAT ROOF SNOW LOAD (PF)

= 30 PSF= 30 PSF + DRIFTING 1.4. TOTAL DESIGN SNOW LOAD

2. DESIGN WIND LOADS

= 93 MPH (NOM), 120 MPH (ULT) A. BASIC WIND SPEED (3 SECOND GUST) 2.1. EXPOSURE

= 1.152.2. IMPORTANCE FACTOR (IW)

3. SEISMIC (IBC)

S1 = 0.061SS = 0.113SDS = 0.121 SD1 = 0.098

SEISMIC IMPORTANCE FACTOR (LE)

RESPONSE MODIFICATION FACTOR (R)

SEISMIC RESPONSE COEFFICIENT (CS) 0.094 BASIC SEISMIC FORCE RESISTANCE SYSTEM - ORIDINARY MASONRY SHEAR WALLS

ANALYSIS PROCEDURES

EQUIVALENT LATERAL FORCE METHOD EQUIVALENT LATERAL FORCE METHOD

SEISMIC DESIGN CATEGORY B

SEISMIC SITE CLASS

= 20 PSF

ANALYSIS PROCEDURES DESIGN BASE SHEAR (V)

V = 0.125W

FOUNDATIONS - GENERAL

- CONTINUOUS FOOTINGS SHALL BEAR ON SOILS CAPABLE OF SUPPORTING A NET ALLOWABLE BEARING PRESSURE OF 1500 PSF.
- 2. ALL BEARING MATERIAL SHALL BE INSPECTED BY THE INDEPENDENT TESTING AGENCY PRIOR TO CONCRETE PLACEMENT. THE INDEPENDENT TESTING AGENCY SHALL BE THE SOLE JUDGE AS TO THE SUITABILITY OF THE BEARING MATERIAL. FOOTING ELEVATIONS SHALL BE ADJUSTED AS REQUIRED.
- FOUNDATION WALLS THAT RETAIN EARTH SHALL BE BRACED AGAINST BACKFILLING PRESSURES UNTIL FLOOR SLABS AT TOP AND BOTTOM ARE IN PLACE.
- 4. WHERE FOUNDATION WALLS ARE TO HAVE EARTH PLACED ON EACH SIDE, PLACE FILL SIMULTANEOUSLY SO AS TO MAINTAIN A COMMON ELEVATION ON EACH SIDE OF THE WALL.

CONCRETE AND REINFORCING STEEL:

CONCRETE SHALL CONFORM TO ACI BUILDING CODE (318R-08) AND SHALL HAVE A 28-DAY COMPRESSIVE STRENGTH AND DENSITY, IN ACCORDANCE WITH THE FOLLOWING:

	STRENGTH PSI	DENSITY PCF	MAX W/C RATIO
INTERIOR SLABS, EXTERIOR SLABS	4000	145	0.45
CURBS, SIDEWALKS	4000	145	0.50
ALL OTHER CONCRETE (U.N.O.)	3000	145	0.55

- 2. REINFORCING SHALL CONFORM TO ASTM A615, GRADE 60, UNLESS NOTED OTHERWISE.
- 3. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185.
- 4. MINIMUM CONCRETE COVER. UNLESS NOTED OTHERWISE:

UNFORMED SURFACE IN CONTACT WITH THE GROUND.

FORMED SURFACES EXPOSED TO EARTH OR WEATHER.

#6 BARS AND LARGER #5 BARS AND SMALLER

2 IN. 1-1/2 IN.

FORMED SURFACES NOT EXPOSED TO EARTH OR WEATHER:

BEAMS, GIRDERS, AND COLUMNS

SLABS, WALLS, AND JOISTS #11 BARS AND SMALLER #14 AND #18 BARS

3/4 IN. 1-1/2 IN.

1-1/2 IN.

5. LAP SPLICES SHALL BE IN ACCORDANCE WITH THE FOLLOWING TABLE, UNLESS NOTED OTHERWISE. WHERE CLASSES ARE NOT CALLED OUT ON DRAWINGS, USE CLASS "B" SPLICES. SPLICES SHALL BE STAGGERED AT LEAST 24 INCHES.

BAR SIZE	TENSION TOP B A	SPLICES ARS B		R BARS B	COMPRESSION SPLICES (INCHES)
#3	16	21	12	16	12
#4	21	28	16	21	15
#5	27	35	21	27	19
#6	35	46	27	35	23
#7	48	62	37	48	26
#8	63	82	48	63	30
#9	80	104	61	80	34

COMPRESSION DOWEL EMBEDMENT: 22 BAR DIAMETERS LAP WELDED WIRE FABRIC ONE SPACING OF CROSS WIRES PLUS 2".

6. BASE PLATES, ANCHOR BOLTS, SUPPORT ANGLES, ETC., BELOW GRADE SHALL BE COVERED WITH A MINIMUM OF 3" OF CONCRETE.

REINFORCED MASONRY:

- REINFORCED MASONRY SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH, I'm, OF 1500 PSI. MASONRY UNITS SHALL BE NORMAL WEIGHT BLOCK CONFORMING TO ASTM C90, GRADE N, AND SHALL HAVE A MINIMUM NET AREA COMPRESSIVE STRENGTH OF 1900 PSI. MORTAR SHALL CONFORM TO ASTM C270, TYPE S, U.N. AND TYPE N FOR INTERIOR WALLS. GROUT SHALL CONFORM TO ASTM C476. GROUT SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 2000 psi AND MAXIMUM DENSITY OF 115 pcf. SLUMP AT POINT OF PLACEMENT SHALL BE 9" +/- 1".
- REINFORCING BARS SHALL CONFORM TO ASTM A615. GRADE 60, UNLESS NOTED OTHERWISE.
- 3. CONTINUOUS WIRE REINFORCING (JOINT REINFORCING) SHALL BE GALVANIZED TRUSS OR LADDER TYPE FORMED FROM 9 GAUGE COLD - DRAWN STEEL WIRE COMPLYING WITH ASTM A82. JOINT REINFORCING SHALL BE SPACED AT 16" O.C. VERTICALLY IN ALL MASONRY WALLS.
- 4. SEE DRAWINGS FOR LOCATIONS OF VERTICAL CONTROL JOINTS. HORIZONTAL BOND BEAM AND LINTEL REINFORCING SHALL BE CONTINUOUS ACROSS VERTICAL CONTROL JOINTS. JOINT REINFORCING SHALL BE STOPPED EITHER SIDE OF VERTICAL CONTROL JOINTS.
- 5. ALL REINFORCED CELLS. ALL CELLS BELOW GRADE AND ALL CELLS BELOW FINISH FLOOR SHALL BE GROUTED SOLID.
- WHEN A FOUNDATION DOWEL DOES NOT LINE UP WITH A VERTICAL BLOCK CORE, IT SHALL NOT BE SLOPED MORE THAN ONE HORIZONTAL IN 6 VERTICAL. DOWELS MAY BE GROUTED INTO A CELL IN VERTICAL ALIGNMENT. EVEN THOUGH IT IS IN AN ADJACENT CELL TO THE VERTICAL WALL REINFORCING.
- REINFORCING STEEL SHALL BE SECURED IN PLACE BEFORE GROUTING STARTS.
- 8. SPLICED REINFORCING SHALL BE LAPPED 48 BAR DIAMETERS OR 24 INCHES. WHICHEVER IS GREATER. SPLICED BARS SHALL BE WIRED TOGETHER.
- 9. VERTICAL BARS SHALL BE HELD IN POSITION AT TOP AND BOTTOM AND AT INTERVALS NOT EXCEEDING 200 DIAMETERS OF THE REINFORCING. NOR 10 FEET. BARS SHALL BE IN PLACE PRIOR TO GROUTING.
- 10. VERTICAL REINFORCING BARS SHALL HAVE A MINIMUM CLEARANCE OF 1/4 OF AN INCH FROM THE MASONRY FOR FINE GROUT AND 1/2 INCH FOR COARSE GROUT
- 11. VERTICAL CELLS THAT WILL BE GROUTED SHALL HAVE A VERTICAL ALIGNMENT TO MAINTAIN A CONTINUOUS UNOBSTRUCTED CELL AREA NOT LESS THAN 3"x4".
- 12. GROUTING SHALL BE STOPPED 1-1/2" BELOW THE TOP OF A COURSE SO AS TO FORM A KEY AT THE POUR JOINT.
- 13. GROUTING OF MASONRY BEAMS OVER OPENINGS SHALL BE DONE IN ONE CONTINUOUS OPERATION.
- 14. ALL BOLTS, ANCHORS, ETC., INSERTED IN THE WALLS, SHALL BE GROUTED SOLID INTO POSITION.

STRUCTURAL STEEL:

1. STEEL SHALL CONFORM TO THE FOLLOWING GRADES:

ALL CHANNELS, ANGLES, PLATES, ETC. (UNO)		A36 (Fy=36)
ALL WF		A992 (Fy=50) U.N
STRUCTURAL TUBE		A500 (Fy=46)
STEEL PIPE		A53 (Fy=35)
ANCHOR BOLTS		A307
BOLTS		A325
WELDING ELECTRODES		E70XX
THREADED ROD ANCHORS		A36
SHEAR STUDS		A108

- 2. ALL STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE AISC CODE OF STANDARD PRACTICE. EXCEPT AS MODIFIED IN THESE NOTES AND THE PROJECT SPECIFICATIONS.
- 3. THE STEEL STRUCTURE IS LATERAL UNSTABLE AND IS DEPENDENT UPON DIAPHRAGM ACTION OF THE METAL ROOF DECK AND ATTACHMENT TO THE WALL SYSTEM FOR STABILITY AND FOR RESISTANCE TO WIND AND SEISMIC FORCES. PROVIDE ALL TEMPORARY SUPPORTS REQUIRED FOR STABILITY AND FOR RESISTANCE TO WIND AND SEISMIC FORCES UNTIL THESE ELEMENTS ARE FULLY SECURED TO EACH OTHERB AND CAPABLE OF PROVIDING THIS SUPPORT.
- 4. THE FABRICATOR IS RESPONSIBLE FOR THE DESIGN OF ALL CONNECTIONS. CONNECTIONS SHOWN ON THE STRUCTURAL DRAWINGS ARE SCHEMATIC AND ARE ONLY INTENDED TO SHOW THE RELATIONSHIP OF MEMBERS CONNECTED. CONNECTION DETAILS INDICATED ON THE DRAWINGS SHALL BE INCORPORATED INTO FABRICATOR'S CONNECTION DESIGN. SEE SPECIFICATIONS. ALL SHOP DRAWINGS SHALL BE SIGNED AND SEALED BY THE FABRICATOR'S ENGINEER WITH THE ENGINEER'S SEAL FOR THE STATE WHERE THE STRUCTURE IS LOCATED. ENGINEER'S SEAL MAY BE QUALIFIED "FOR DESIGN OF CONNECTIONS ONLY.

METAL ROOF DECK:

- 1. METAL ROOF DECK SHALL COMPLY WITH THE REQUIREMENTS OF THE STEEL DECK INSTITUTE "SPECIFICATIONS AND COMMENTARY FOR STEEL ROOF DECK" (LATEST).
- 2. METAL ROOF DECK SHALL BE CONFIGURATION, DEPTH AND MINIMUM GAGE AS SHOWN ON THE DRAWINGS. MINIMUM YIELD STRENGTH SHALL BE 33,000 psi. ATTACHMENT TO THE SUPPORTING STRUCTURE SHALL BE AS SHOWN ON THE DRAWINGS. SEE ROOF PLAN NOTES. STELL ROOF DECK AND CONNECTORS SHALL CONFORM TO FACTORY MUTUAL
- 3. PUBLICATION I-28 AND I-28S, CLASS I-60, WINDSTORM RESISTANCE. INSTALLATION SHALL BE BY AND OSHA CERTIFIED OPERATOR IN ACCORDANCE WITH THE FASTENER MANUFACTURER'S INSTRUCTIONS AND INITIAL FASTENING UNDER THE SUPERVISION OF THE MANUFACTURER'S REPRESENTATIVE. STEEL ROOF DECK SHALL BE ATTACHED AS FOLLOWS: AT SUPPORTS: 5/8" DIAMETER WELDS. AT SIDELAPS: BUILDEX TRAXX #10-14 STANDARD HEX WASHER HEAD SCREWS.
- 4. DO NOT HANG OR SUPPORT ANY LOADS FROM METAL ROOF DECK.
- 5. METAL ROOF DECK SHALL BE CONTINUOUS OVER A MINIMUM OF THREE SPANS.





1. ALL STRUCTURAL STEEL WELDING SHALL CONFORM TO AMERICAN WELDING SOCIETY STANDARD D1.1, LATEST EDITION.

3. ALL STRUCTURAL STEEL WELDING ELECTRODES SHALL CONFORM TO AWS A5.1 OR A5.5 E-70XX.

2. REINFORCING STEEL WELDING SHALL CONFORM TO AWS D1.4. REINFORCING SHALL CONFORM TO ASTM A-706.

- 4. FIELD WELDING SHALL BE SHOWN ON ERECTION DRAWINGS.
- 5. ALL FIELD FULL PENETRATION WELDS SHALL BE INSPECTED AND TESTED BY A TESTING AGENCY TO BE PAID BY THE
- 6. ALL EXPOSED WELDED CONNECTIONS SHALL BE GROUND SMOOTH AND SUBJECT TO ARCHITECT APPROVAL. THE CONTRACTOR SHALL SUBMIT WRITTEN PROCEDURE AND DETAILS TO THE ARCHITECT FOR REVIEW PRIOR TO COMMENCING THE WORK.
- 7. PAINT ALL WELDS WITH RUST INHIBITIVE PAINT.

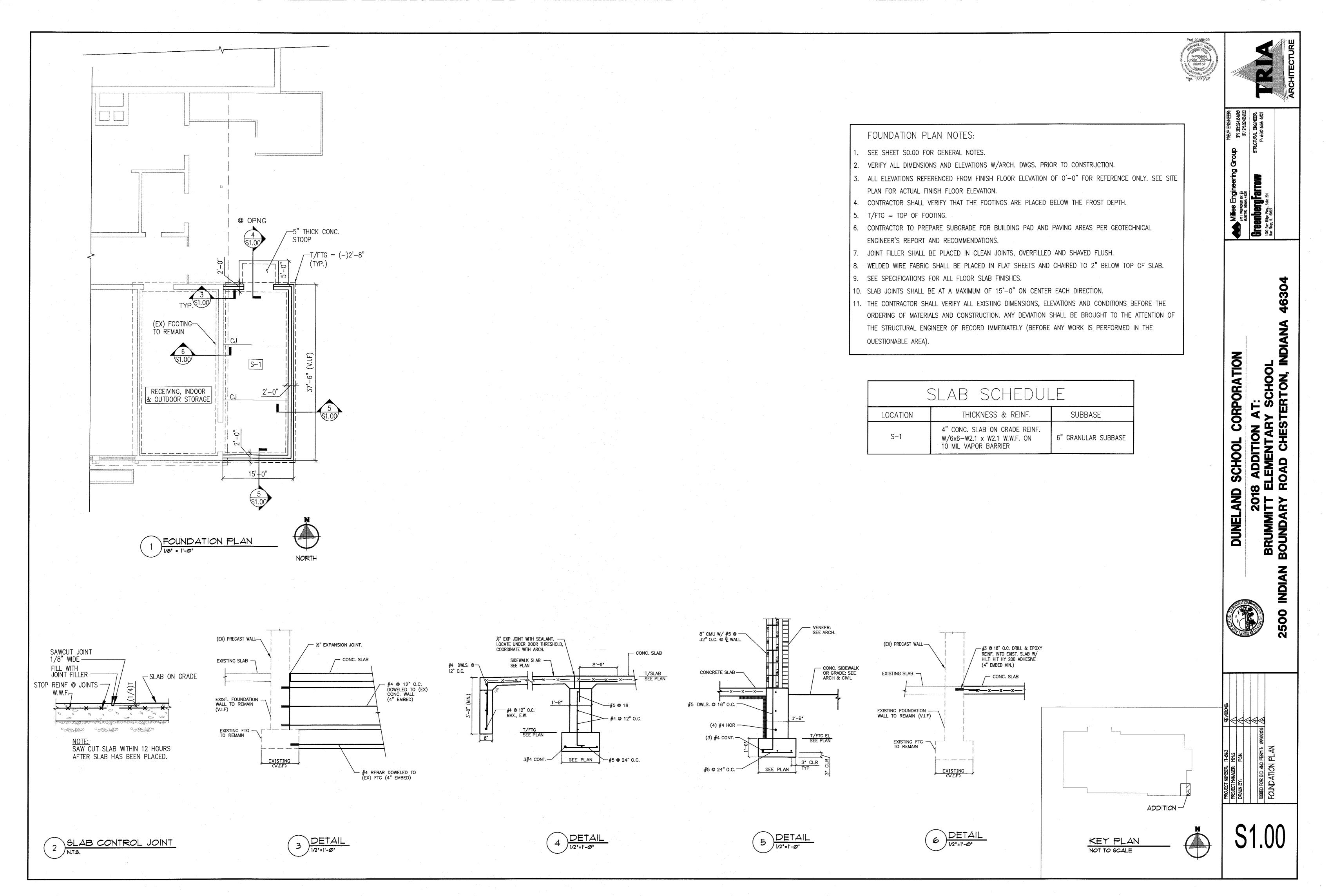
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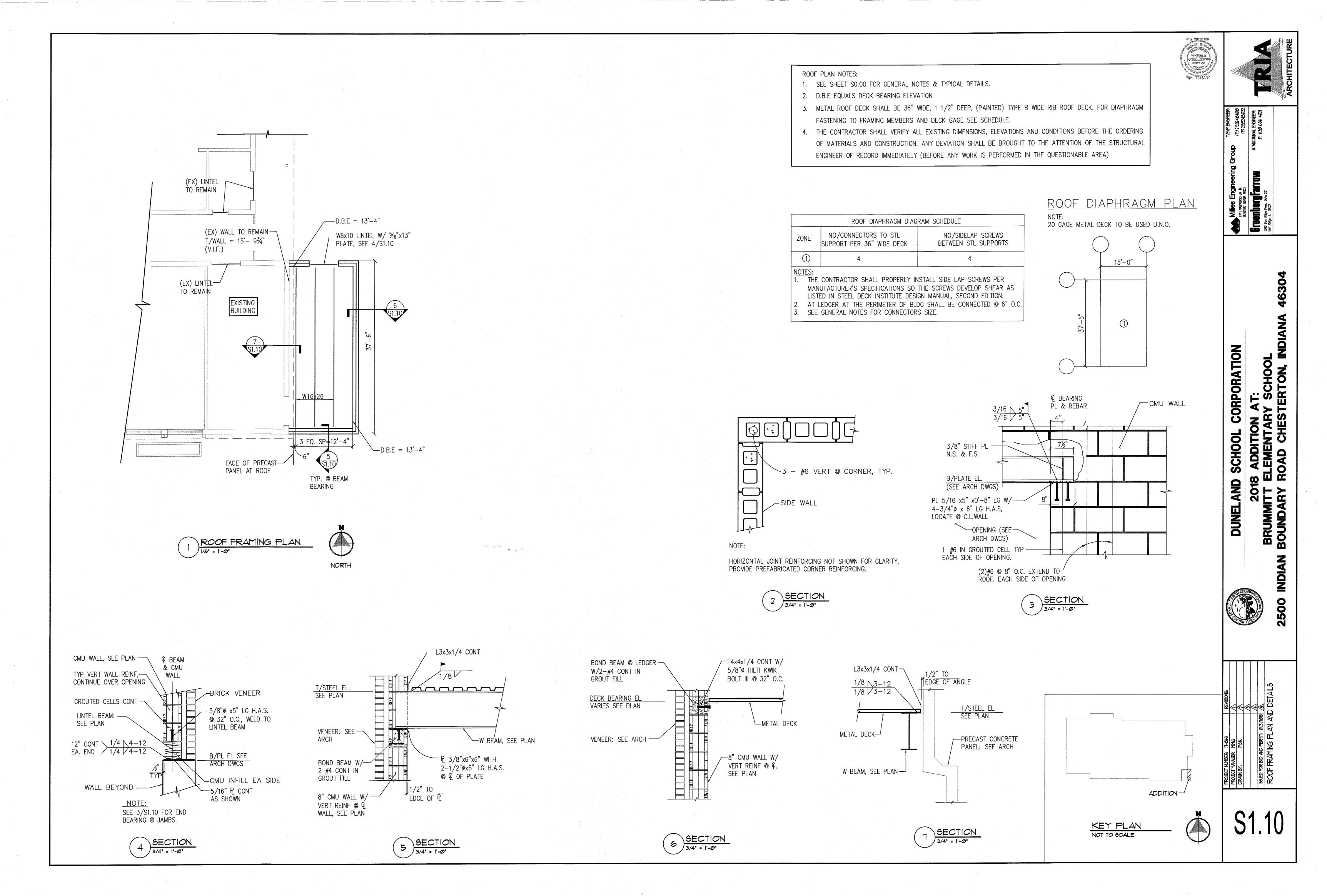
WELDING:

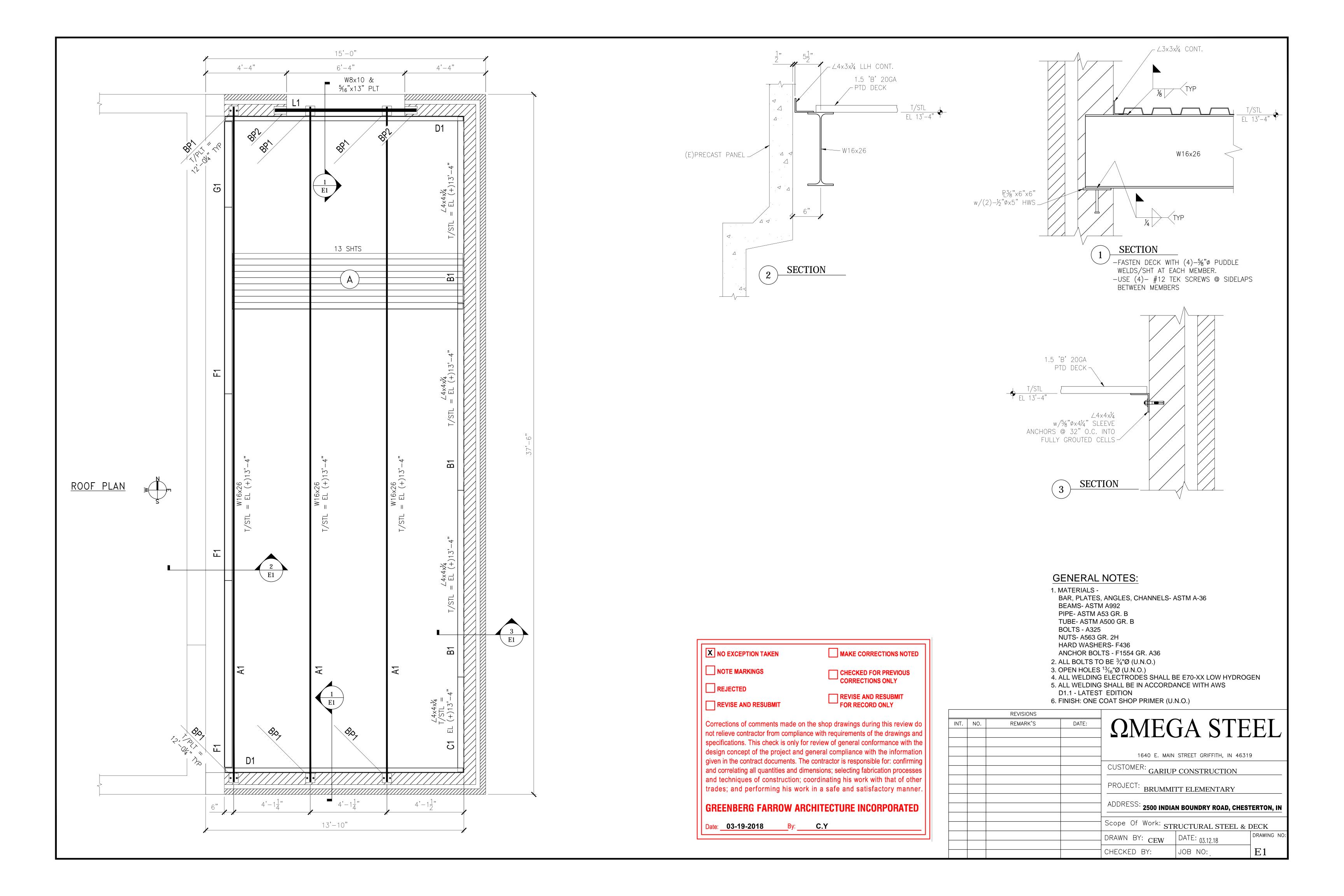
- 1. THESE GENERAL NOTES SUPPLEMENT THE PROJECT SPECIFICATIONS. REFER TO PROJECT SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- STRUCTURAL DRAWINGS ARE INTENDED TO BE USED WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL, CIVIL AND FIRE SPRINKLER DRAWINGS. CONTRACTOR IS RESPONSIBLE FOR COORDINATING SUCH REQUIREMENTS INTO THEIR SHOP DRAWINGS AND CONSTRUCTION.
- 3. NO OPENINGS SHALL BE MADE IN ANY STRUCTURAL MEMBER WITHOUT THE WRITTEN APPROVAL OF THE PROFESSIONAL OF RECORD.
- 4. NO CHANGE IN SIZE, MATERIAL OR DIMENSION OF STRUCTURAL MEMBERS SHALL BE MADE WITHOUT THE WRITTEN APPROVAL OF THE PROFESSIONAL OF RECORD.
- 5. OPENINGS 1'-4" AND LESS ON A SIDE ARE GENERALLY NOT SHOWN ON THE STRUCTURAL DRAWINGS. REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS FOR SUCH OPENINGS.
- THE CONTRACTOR IS RESPONSIBLE FOR LIMITING THE AMOUNT OF CONSTRUCTION LOAD IMPOSED UPON STRUCTURAL FRAMING. CONSTRUCTION LOADS SHALL NOT EXCEED THE DESIGN CAPACITY OF THE FRAMING AT THE TIME THE LOADS ARE IMPOSED.
- 7. THE STRUCTURE IS DESIGNED TO FUNCTION AS A UNIT UPON COMPLETION. THE CONTRACTOR IS RESPONSIBLE FOR FURNISHING ALL TEMPORARY BRACING AND / OR SUPPORT THAT MAY BE REQUIRED AS THE RESULT OF THE CONTRACTOR'S CONSTRUCTION METHODS AND/OR SEQUENCES.
- 8. DO NOT SCALE THESE DRAWINGS, USE DIMENSIONS.
- 9. CONTRACTOR'S CONSTRUCTION AND/OR ERECTION SEQUENCES SHALL RECOGNIZE AND CONSIDER THE EFFECTS OF THERMAL MOVEMENTS OF STRUCTURAL ELEMENTS DURING THE CONSTRUCTION PERIOD.
- 10. THE CONTRACTOR SHALL INFORM THE PROFESSIONAL OF RECORD IN WRITING OF ANY DEVIATION FROM THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL NOT BE RELIEVED OF THE RESPONSIBILITY OF SUCH DEVIATION BY THE PROFESSIONAL OF RECORD REVIEW OF SHOP DRAWINGS, PRODUCT DATA, ETC., UNLESS THE CONTRACTOR HAS SPECIFICALLY INFORMED THE PROFESSIONAL OF RECORD OF SUCH DEVIATION AT THE TIME OF SUBMISSION, AND THE PROFESSIONAL OF RECORD HAS GIVEN WRITTEN APPROVAL TO THE SPECIFIC DEVIATION.
- 11. CONNECTIONS OF ALL ITEMS SUPPORTED BY THE STRUCTURE ARE THE RESPONSIBILITY OF THE DISCIPLINES WHO ARE MAKING THESE ATTACHMENTS. THESE ATTACHMENTS SHALL BE DESIGNED TO RESIST ALL GRAVITY, WIND, WIND UPLIFT, SEISMIC, THERMAL LOADS, ETC.
- 12. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS.
- 13. UNLESS NOTED. SUBMIT SHOP DRAWINGS OF ALL FABRICATED MATERIALS FOR REVIEW. DESIGN DRAWINGS SHALL NOT BE PRODUCED FOR USE AS SHOP DRAWINGS. SHOP DRAWINGS WILL NOT BE REVIEWED UNLESS THEY WERE CHECKED BEAR THE INITIAL OF THE CHECKER AND ARE STAMPED "APPROVED" BY THE GENERAL CONTRACTOR.

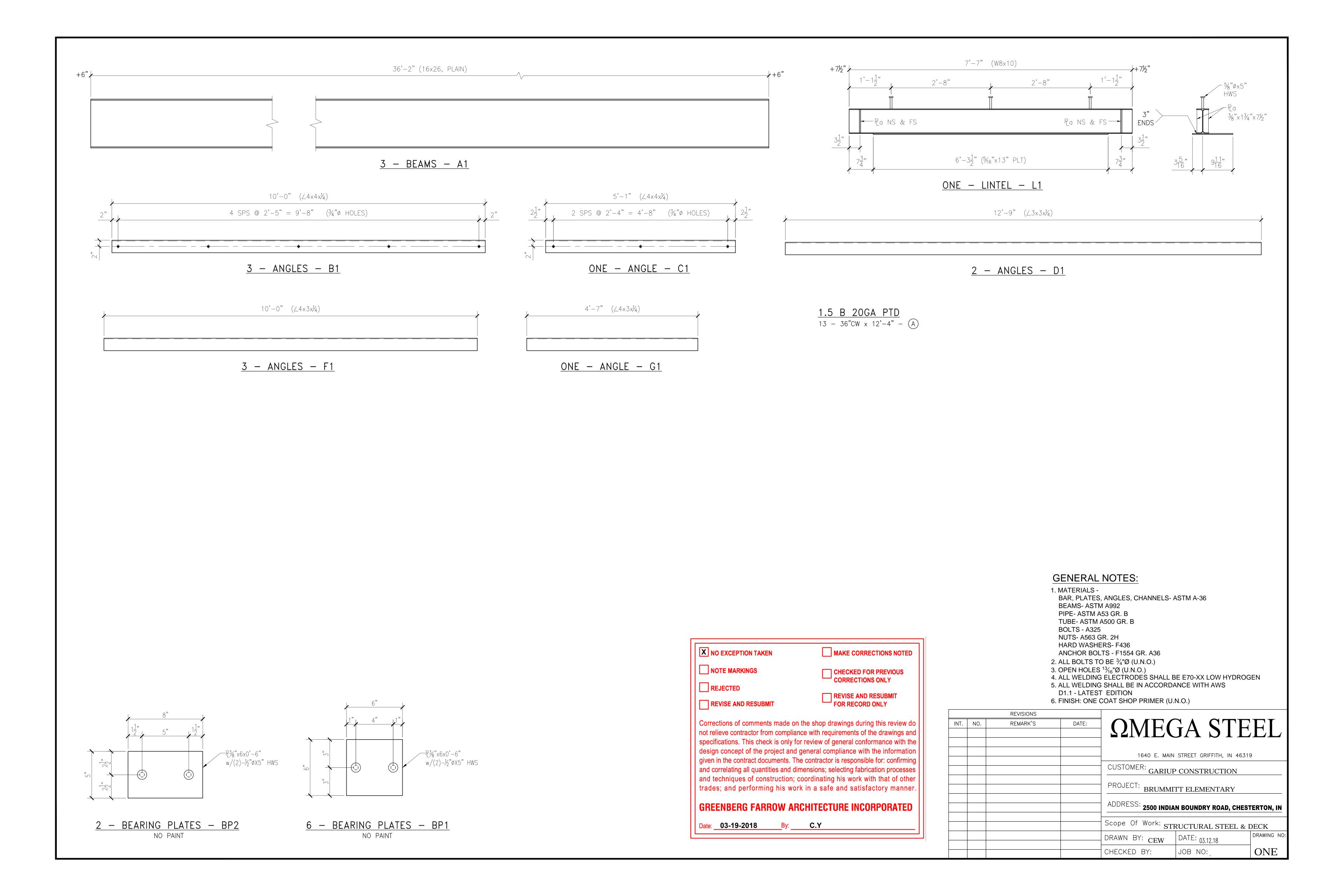
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ELECTRICAL GENERAL NOTES

- A. WORK SHALL COMPLY WITH LOCAL, STATE AND NATIONAL ELECTRIC CODES AND THE X. SOME CEILING SPACES ARE RETURN AIR PLENUMS. EXAMINE PLENUM BEFORE AMERICANS WITH DISABILITIES ACT.

 CEILING IS INSTALLED (OR REPLACED) AND SEAL ALL OPENINGS AROUND CO
- B. THE PANEL SCHEDULES ARE PROVIDED FOR ASSISTANCE ONLY IN UNDERSTANDING THE LOADING ON THE VARIOUS CIRCUITS AND THE CIRCUIT DESIGNATIONS DESIRED FOR THE PANEL DIRECTORIES. THE PANEL SCHEDULES MUST BE BALANCED UPON COMPLETION OF THE PROJECT TO COMPLY WITH CODE. IN ADDITION, THE PANEL SCHEDULES DO NOT IDENTIFY THE TYPES OF CIRCUIT BREAKERS TO BE USED (SUCH AS GFCI, HACR, SHUNT TRIP UNITS, ETC.) NOR DO THE SCHEDULES IDENTIFY CIRCUIT BREAKERS REQUIRED. (SUCH AS C/B'S FEEDING SURGE PROTECTION UNITS). REFER TO THE REST OF THE DRAWINGS AND THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS AND DETAILED INFORMATION.
- C. COORDINATE EQUIPMENT ELECTRICAL REQUIREMENTS (VOLTAGES, PHASE, LOAD, ETC.) TO AVOID CONFLICTS.
- D. REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR ADDITIONAL ELECTRICAL INFORMATION AND REQUIREMENTS. IN ALL CASES DEVICE MOUNTING HEIGHTS AND LOCATIONS SHALL CONFORM TO THE LATEST AMERICANS WITH DISABILITIES FEDERAL STANDARDS.
- E. EXCAVATION NECESSARY FOR COMPLETION OF WORK SHALL BE PROVIDED. COORDINATE WITH ONE ANOTHER TO SHARE TRENCHES WHEREVER POSSIBLE.
- FURNISH, INSTALL AND LOCATE DISCONNECT SWITCHES AT EQUIPMENT/MOTOR LOCATION, AS REQUIRED, AND IN ACCORDANCE WITH CODE. IF THE WORK OF OTHER TRADES CAUSES A LOSS OF CONTINUITY OF THE EXISTING ELECTRICAL DISTRIBUTION, GROUNDING SYSTEM OR CIRCUITRY, IT SHALL BE RECONNECTED OR REPAIRED AT NO ADDITIONAL COST.
- G. FIELD VERIFY IF EXISTING ASBESTOS WILL BE ENCOUNTERED PRIOR TO STARTING ANY WORK. IF ASBESTOS IS PRESENT, THE OWNER WILL PROVIDE FOR THE REMOVAL OF ANY MATERIAL CONTAINING ASBESTOS. SEE SPECIFICATIONS FOR FURTHER REQUIREMENTS
- H. COORDINATE PHASING OF WORK AND PROVIDE TEMPORARY POWER AND SERVICES AS REQUIRED FOR THE IMPLEMENTATION OF WORK WHILE MAINTAINING SERVICES TO PORTIONS OF BUILDING TO REMAIN OCCUPIED.
- I. SCHEDULE WORK TO AVOID DOWNTIME AND INCONVENIENCE TO OWNER. OWNER'S EXISTING FACILITY SHALL REMAIN IN OPERATION AT ALL TIMES, INCLUDING F/A AND OTHER SPECIAL SYSTEMS, ELECTRICAL POWER DISTRIBUTION, ETC. REQUIRED SHUTDOWN OF EXISTING FACILITY UTILITIES SHALL BE SCHEDULED WITH OWNER'S OPERATING PERSONNEL.
- J. LAYOUT IS DIAGRAMMATIC AND INSTALL DEVICES, CONDUIT AND EQUIPMENT TO MEET ACTUAL FIELD CONDITIONS. REVIEW PROJECT SPECIFICATIONS BEFORE STARTING WORK AND SUBMIT COMPLETE SHOP DRAWINGS AS PER SPECIFICATIONS.
- K. VISIT SITE PRIOR TO BID TO DETERMINE AND VERIFY EXISTING INTERIOR AND EXTERIOR ELECTRICAL SYSTEMS TO VERIFY QUANTITIES AND LOCATIONS OF EXISTING SYSTEMS TO DETERMINE FULL EXTENT OF WORK. INCLUDE THE NECESSARY MODIFICATIONS TO THE EXISTING CONDITIONS (INCLUDING CEILINGS, WALLS, FLOORS, PIPES, CONDUIT, ROOF WORK, ETC.) AS REQUIRED, TO ALLOW FOR PROPER INSTALLATION OF WORK. ADJUST INSTALLATIONS TO MEET FIELD CONDITIONS AS REQUIRED FOR A COMPLETE AND PROPER INSTALLATION. NO EXTRAS WILL BE ALLOWED AFTER BIDDING FOR ANY REWORK OF EXISTING FIELD CONDITIONS TO RESOLVE CONFLICTS OR NOT FULLY UNDERSTANDING THE SCOPE OF THE WORK REQUIRED. EXISTING EQUIPMENT, CONDUIT, PIPING, ETC. SHALL BE REMOVED AS NOTED ON DRAWINGS AND AS REQUIRED TO MEET NEW SCOPE OF WORK.
- L. HIDDEN CONDITIONS IDENTIFIED THROUGH THE COURSE OF CONSTRUCTION SHALL BE IMMEDIATELY BROUGHT TO ATTENTION IN WRITTEN FORM FOR REVIEW AND DIRECTION. FAILURE TO DO SO SHALL REQUIRE THE CHANGES AND COSTS TO CORRECT SAID HIDDEN CONDITION TO BE COMPLETED AT NO COST. EXISTING EQUIPMENT NOT IDENTIFIED SHALL BE BROUGHT TO ATTENTION FOR REVIEW AS TO WHETHER THE EQUIPMENT SHALL REMAIN AND BE RECONNECTED TO THE NEW SERVICES, BE RELOCATED, BE ABANDONED, ETC.
- M. REMOVE AND REINSTALL EXISTING CEILINGS NOT BEING REPLACED (INCLUDING LIGHTS, MOTION SENSORS, FIRE ALARM DEVICES AND ANY OTHER ELECTRICAL DEVICES AS REQUIRED.) WHERE NECESSARY TO PERFORM WORK. THIS ALSO INCLUDES EXISTING CEILINGS OF PLASTER, DRYWALL, ETC. COORDINATE WORK IN CEILING SPACE SO AS TO MINIMIZE THE AMOUNT OF CEILINGS WHICH MUST BE REMOVED AND REINSTALLED. REVIEW THE ENTIRE SET OF CONTRACT DOCUMENTS IN ORDER TO FULLY UNDERSTAND AND INCLUDE CEILING WORK NECESSARY FOR WORK ON THE PROJECT. WHEN THE WORK IS COMPLETED IN THE SPACE, REINSTALL OR PATCH EXISTING CEILINGS, REINSTALL DEVICES AND EQUIPMENT AND REPAIR DAMAGE AS REQUIRED TO COMPLETELY MATCH EXISTING CONDITIONS. REPAIR OR REPLACE ANY DAMAGE CAUSED TO EXISTING CEILING AREAS.
- N. REMOVE EXISTING CONSTRUCTION AS REQUIRED AT EXISTING WALLS, FLOORS, PIPE CHASES, SURFACES, FINISHES, ETC. WHICH ARE AFFECTED. REPAIR EXISTING SURFACES AFFECTED, TO MATCH EXISTING SURFACE OF EQUAL OR BETTER QUALITY TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE.
- O. COORDINATE NEW INSTALLATIONS WITH EXISTING SYSTEMS. RELOCATE EXISTING LIGHTING, CONDUIT, EQUIPMENT, ETC., AS NECESSARY FOR NEW INSTALLATIONS.
- P. PROVIDE NEW PANEL DIRECTORIES IN EXISTING MODIFIED PANELBOARDS AND NEW PANELBOARDS TO CORRECTLY IDENTIFY EXISTING AND NEW LOADS. FINAL DIRECTORIES SHALL BE TYPE WRITTEN.
- Q. EXISTING LIGHTING FIXTURES, ELECTRICAL DEVICES, CONDUIT, ETC., SHALL BE REMOVED AS NOTED ON DRAWINGS AND AS REQUIRED TO MEET NEW SCOPE OF WORK. EXISTING ELECTRICAL EQUIPMENT SHALL REMAIN PROPERTY OF THE OWNER AND SHALL BE PROPERLY STORED ON SITE, OR DESIGNATED TO BE ABANDONED AND REMOVED FROM SITE AS DIRECTED BY OWNER.
- R. PERFORM CUTTING AND PATCHING OF EXISTING FLOOR SLABS AND WALLS AS REQUIRED FOR THE INSTALLATION OF ELECTRICAL SYSTEMS.
- 5. EXISTING ELECTRICAL DEVICES (RECEPTACLES, SWITCHES, OUTLET BOXES, CONDUIT, ETC.) WITHIN WALLS TO BE REMOVED SHALL BE DISCONNECTED COMPLETELY. REROUTE AND EXTEND EXISTING CIRCUITRY, ELECTRICAL FEEDERS AND GROUNDING SYSTEMS AS REQUIRED TO MAINTAIN CIRCUIT, FEEDER AND GROUNDING SYSTEM INTEGRITY FOR ALL REMAINING DEVICES/EQUIPMENT. VERIFY EXACT CONDITIONS AND REQUIREMENTS IN FIELD.
- T. WHERE NEW CIRCUIT BREAKERS, FUSES AND SWITCHES ARE TO BE ADDED TO EXISTING PANELBOARDS, SWITCHBOARDS, ETC., THEY SHALL BE OF THE SAME MANUFACTURER AND DESIGN AS THE EXISTING BREAKERS OR SWITCHES IF NOT OBSOLETE AND SHALL BE OF THE SIZES AS INDICATED. REARRANGE CIRCUIT BREAKERS WITHIN THE EXISTING EQUIPMENT TO ACCOMMODATE THE NEW CIRCUIT BREAKERS OR SWITCHES. BRANCH CIRCUIT NUMBERS ASSIGNED TO EXISTING PANELBOARDS ARE ARBITRARY AND ARE INTENDED TO INDICATE BRANCH CIRCUIT REQUIREMENTS ONLY. ACTUAL PANEL NUMBER ASSIGNMENTS FOR DESIGNATED BRANCH CIRCUITS SHALL BE ADJUSTED TO MEET FIELD CONDITIONS. PROVIDE ADDITIONAL BUS, BUS EXTENSION, BOLTS AND HARDWARE, ENCLOSURE MODIFICATIONS, DIRECTORY MODIFICATIONS, ETC., AS REQUIRED TO ACCOMPLISH THE WORK.
- U. VERIFY CEILING STYLES/FRAMES AND TYPES BEFORE ORDERING FIXTURES AND CEILING MOUNTED DEVICES. PROVIDE APPROPRIATE STYLES/FRAMES AS REQUIRED TO MATCH CEILING STYLE AND TYPES.
- V. COORDINATE LIGHTING LAYOUTS WITH CEILING REGISTERS, GRILLES, DIFFUSERS, SPRINKLER HEADS AND CEILING GRID (SEE ARCHITECTURAL REFLECTED CEILING PLAN.) VERIFY LOCATION WITH OWNER'S REPRESENTATIVE IN FIELD PRIOR TO INSTALLATION.
- W. PROVIDE PLENUM RATED LIGHT FIXTURES IN PLENUM CEILING AREAS WHERE REQUIRED BY LOCAL OR NATIONAL CODES.

- X. SOME CEILING SPACES ARE RETURN AIR PLENUMS. EXAMINE PLENUM BEFORE CEILING IS INSTALLED (OR REPLACED) AND SEAL ALL OPENINGS AROUND CONDUIT, CABLE, ETC. PROVIDE PLENUM RATED CABLE (UNLESS IN CONDUIT), DEVICES AND EQUIPMENT PER CODE.
- Y. THE MINIMUM DISTANCE BETWEEN SMOKE OR HEAT DETECTORS AND CEILING MOUNTED SUPPLY DIFFUSERS SHALL BE A MINIMUM OF 4 FEET AND WALL MOUNTED DIFUSERS SHALL BE 10 FEET.
- Z. WHERE INDICATED ON THE DRAWINGS IN UNFINISHED SPACES, RUN EXPOSED RACEWAYS PARALLEL WITH OR AT RIGHT ANGLES TO WALL.
- AANO RACEWAYS SHALL BE INSTALLED WITHIN 6" OF STEAM, HOT WATER PIPES OR SIMILAR HEAT PRODUCING APPLIANCES.
- AB PROVIDE PULL WIRE IN EACH RACEWAY IN WHICH WIRING IS NOT INSTALLED.
- AC. COVERS OF JUNCTION OR PULL BOXES SHALL BE ACCESSIBLE AND IDENTIFIED PER SPECIFICATIONS. FIRE ALARM JUNCTION BOXES SHALL BE PAINTED RED. JUNCTION OR PULL BOXES AND THE LIKE SHALL BE INDEPENDENTLY SUPPORTED TO BUILDING STRUCTURE WITH NO WEIGHT BEARING ON RACEWAYS.
- AD WIRE COLOR CODING SHALL BE COORDINATED THROUGHOUT THE ENTIRE PROJECT/BUILDING FOR NEW AND EXISTING SYSTEMS.
- AE, IF MORE THAN THREE (3) PHASE (UNGROUNDED) CONDUCTORS ARE RUN IN THE SAME RACEWAY, CONDUCTOR AMPACITY SHALL BE DERATED IN ACCORDANCE WITH NEC ARTICLE 310.
- AF. CONDUIT, LIGHTING, EQUIPMENT, ETC. SHALL NOT BE SUPPORTED FROM THE BOTTOM CHORD OF ENGINEERED JOISTS WITHOUT WRITTEN APPROVAL FROM THE STRUCTURAL ENGINEER. CONDUITS, ROUTED THROUGH AREAS WITH NO CEILING, SHALL BE ROUTED WITHIN THE WEBBING OF THE JOISTS AND SHALL NOT BE ROUTED BELOW THE BOTTOM CHORD OF THE JOIST.
- AG. SMOKE OR HEAT DETECTORS SHALL BE SURFACE MOUNTED TO CEILING, ROOF DECK MATERIALS, ETC. IN LIEU OF MOUNTING TO BOTTOM CHORD OF ENGINEERED JOIST OR ANY OTHER COMPONENTS NOT AN INTEGRAL PART OF THE HORIZONTAL CEILING.
- AH. VERIFY EXISTING AND NEW MECHANICAL, ELECTRICAL AND FIRE PROTECTION
 SERVICES PRIOR TO START OF NEW CONSTRUCTION. COORDINATE AND ADJUST NEW
 WORK AS REQUIRED TO AVOID CONFLICTS WITH EXISTING SERVICES AND NEW
 SERVICES PROVIDED.
- AI. PROVIDE NECESSARY ROOFING COMPONENTS COMPATIBLE WITH EXISTING ROOFING SYSTEMS TO PROVIDE A WEATHERTIGHT INSTALLATION FOR THE ROOF PENETRATIONS AND ABANDONED HOLES FROM REMOVED ITEMS. PATCH ROOF OPENINGS FOR REMOVED PIPE PENETRATIONS, WITH RIGID ROOF INSULATION AND ROOF DECK MATERIAL FROM BELOW ROOF TO MATCH EXISTING ADJACENT MATERIALS. PROPERLY STRIP ROOFING MEMBRANE, ETC. AS REQUIRED, TO MATCH EXISTING ROOF SYSTEM WITH PROPER AND COMPATIBLE MATERIALS. PROVIDE A COMPLETE AND PROPER WEATHERTIGHT CONDITION.
- AJ. ROOF SUPPORTS FOR CONDUITS TO BE EQUIVALENT TO PORTABLE PIPE HANGER, INC. TYPE PP-10, WITH ROLLER GUIDE SUPPORT FOR SINGLE PIPES AND CHANNEL GUIDE SUPPORT FOR MULTIPLE PIPES. SUPPORTS TO HAVE HIGH DENSITY POLYPROPYLENE PLASTIC BASE WITH THREADED RODS FOR ADJUSTABLE HEIGHT ROLLER. SUPPORTS ARE TO SIT ON TOP OF ROOFING MEMBRANE. SUPPORTS ARE TO BE INSTALLED AS PER MANUFACTURER'S RECOMMENDATION AND TO BE COMPATIBLE WITH AND MAINTAIN THE INTEGRITY OF THE EXISTING OR NEW ROOF SYSTEM. WHERE CONDUITS AND WIRING ARE RUN IN EXTERIOR LOCATIONS OR EXPOSED TO SUNLIGHT, CONDUCTORS SHALL BE PROPERLY UPSIZED PER NEC 310.
- AK WIRING DEVICES SHOWN BACK-TO-BACK IN WALLS SHALL BE SEPARATED BY S'
- AL. UNLESS OTHERWISE NOTED, DEVICE ELEVATIONS REFER TO CENTER LINE OF JUNCTION BOX. VERIFY JUNCTION BOX LOCATIONS WITH FINAL EQUIPMENT LAYOUT PRIOR TO ROUGHING IN SAME.
- AM. FURNISH AND INSTALL A GREEN GROUND WIRE IN POWER CONDUITS (NOT LIGHTING).
 ALL DEVICES, EQUIPMENT, FIXTURES AND THE LIKE, MUST BE GROUNDED.
 MECHANICAL/ELECTRICAL BONDS OF THE METALLIC RACEWAY SYSTEM SHALL BE MAINTAINED.
- AN PROVIDE CONDUIT AND WIRE AND MAKE FINAL POWER CONNECTIONS AS REQUIRED TO EXHAUST FANS AND MISCELLANEOUS EQUIPMENT FURNISHED WITH MOTORIZED BACKDRAFT DAMPERS. DAMPERS SHALL BE CONNECTED TO EQUIPMENT 120 YOLT POWER CIRCUIT SO AS TO INTERLOCK THE MOTORIZED DAMPER WITH THE EXHAUST FAN. FOR THREE PHASE MOTORS, PROVIDE AN ADDITIONAL 120 YOLT CIRCUIT ROUTED THROUGH AN AUXILIARY CONTACT IN THE MOTOR STARTER.
- AO. AT NEW FIRE OR SMOKE/FIRE DAMPER LOCATIONS, WIRE EACH SMOKE/FIRE DAMPER TO NEAREST EMERGENCY PANEL, TO LOCAL ACTIVATION SMOKE DETECTORS ON EITHER SIDE OF THE DAMPER (WITHIN 3'-0') AND ALSO WIRE THE SAME TO THE FIRE ALARM CONTROL PANEL AS REQUIRED FOR A COMPLETE AND OPERATING SYSTEM. REFER TO MECHANICAL AND ARCHITECTURAL DRAWINGS FOR LOCATIONS WHERE DUCTS PASS THROUGH SMOKE OR FIRE BARRIERS.
- AP. MODIFY EXISTING FIRE ALARM SYSTEM AS INDICATED ON DRAWINGS AND SPECIFICATIONS AND AS REQUIRED FOR A COMPLETE, CODE COMPLIANT INSTALLATION. PROVIDE ADDITIONAL PARTS, ACCESSORIES AND CARDS AS REQUIRED TO COMPLETE THE WORK, FURNISH AND INSTALL INTERFACE WIRING INTEGRAL TO THE FIRE ALARM SYSTEM AS WELL AS INTERFACE TO NEW ELEVATOR CONTROL PANEL, BUILDING AUTOMATION SYSTEM, ETC. FOR A COMPLETE AND OPERATING INSTALLATION. FIRE ALARM DEVICES SHALL BE CONNECTED TO THE FIRE ALARM POWER SUPPLY AND BATTERIES OF THE SYSTEM AND SHALL NOT BE CONNECTED TO NORMAL POWER. QUESTIONS REGARDING THE REQUIREMENTS OF THE FIRE ALARM SYSTEM OR THE INTENT OF THE CODE SHALL BE DIRECTED TO THE ARCHITECT/ENGINEER FOR REVIEW PRIOR TO BID.
- AQ. CONDUIT INSTALLED FOR LOW YOLTAGE SYSTEMS SHALL BE COORDINATED WITH THE LOW YOLTAGE INSTALLER IN FIELD, PRIOR TO ROUGH-IN. SUCH CONDUIT SHALL BE ROUTED TO MINIMIZE CABLE LENGTH AND COMPLY WITH LOW YOLTAGE CABLING DISTANCE LIMITATIONS.
- AR THE FLASH RATES FOR FIRE ALARM STROBES SHALL BE SYNCHRONIZED, COORDINATE ADDITIONAL REQUIREMENTS WITH NFPA 12.
- AS REWORK EXISTING ELECTRICAL FEEDERS, CONDUIT AND LOW YOLTAGE WIRING AS REQUIRED FOR INSTALLATION OF NEW STRUCTURAL COMPONENTS REQUIRED TO SUPPORT NEW ROOF MOUNTED EQUIPMENT. FURNISH AND INSTALL ALL CONDUIT, WIRING AND SPLICE BOXES TO MAINTAIN CONTINUITY.
- AT. SINGLE POLE CIRCUITS SHALL HAVE SEPARATE INDEPENDENT NEUTRAL CONDUCTORS (NON-NETWORKED), WHICH (PER CODE) ARE CONSIDERED CURRENT CARRYING CONDUCTORS. THEREFORE, IF MORE THAN THREE (3) CURRENT CARRYING CONDUCTORS ARE RUN IN THE SAME RACEWAY, CONDUCTOR AMPACITY SHALL BE DERATED IN ACCORDANCE WITH NEC ARTICLE 310. AS SUCH, MULTIPLE BRANCH CIRCUIT HOME RUNS SHALL, AT A MINIMUM, UTILIZE *10 AWG CONDUCTORS TO COMPLY WITH REQUIREMENTS HEREIN. COORDINATE REQUIREMENTS IN FIELD WITH SPECIFIC HOME RUN CONFIGURATION AND NEC 2008.
- AU. PRIOR TO THE START OF WORK AND THE ORDERING OF EQUIPMENT, CONTRACTOR SHALL CAREFULLY MEASURE AND VERIFY THE VOLTAGE, PHASE AND WIRING CONFIGURATION OF EXISTING PANELS AND EXISTING GEAR THAT ARE PART OF WORK AND SHALL CAREFULLY VERIFY THAT ALL ELECTRICAL CONNECTIONS, GEAR AND EQUIPMENT HAVE BEEN CAREFULLY COORDINATED TO ELIMINATE CONFLICTS. COORDINATE WITH OTHER TRADES AS REQUIRED TO ELIMINATE ELECTRICAL CONFLICTS PRIOR TO START OF WORK.
- AV. CAREFULLY VERIFY COLOR TEMPERATURES OF FIXTURES WITH ARCHITECT PRIOR TO ORDERING.

PLUMBING GENERAL NOTES

PART 1 - GENERAL

- FURNISH AND INSTALL ALL LABOR AND MATERIALS NECESSARY TO PROVIDE A COMPLETE INSTALLATION OF ALL PLUMBING AND SYSTEMS INDICATED AND AS MAY BE REQUIRED TO MAKE THE WORK COMPLETE FOR THE PURPOSE INTENDED. LAYOUTS SHOWN ARE DIAGRAMMATIC INSTALL FIXTURES, AND PIPING TO MEET ACTUAL FIELD CONDITIONS.
- BIDDING REQUIREMENTS: VISIT SITE PRIOR TO BIDDING TO FULLY ACQUAINT HIMSELF WITH ALL FIELD CONDITIONS AND TO DETERMINE FULL EXTENT OF WORK REQUIRED. COORDINATE NEW INSTALLATIONS WITH EXISTING SYSTEMS. ANY ITEMS NOT SPECIFICALLY INDICATED ON DRAWINGS THAT ARE IN CONFLICT WITH CONTRACT WORK SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO BID FOR A DECISION. BIDDERS SHALL ACQUAINT THEMSELVES WITH THE WORKING CONDITIONS AND REQUIREMENTS OF THE ENTIRE PROJECT, AS ANY CONTRACT FOR THIS WORK WILL BE BASED UPON FURNISHING ALL LABOR AND MATERIALS REQUIRED TO ENTIRELY COMPLETE WORK READY FOR USE.
- 13 CODES: ALL WORK SHALL COMPLY WITH LOCAL, MUNICIPAL, STATE PLUMBING CODES.
 ALL MATERIALS SHALL BE IN COMPLIANCE WITH NATIONAL FIRE PROTECTION
 ASSOCIATION (NFPA) STANDARDS.
- 4 OBTAIN AND PAY FOR ALL LICENSES, PERMITS AND INSPECTIONS FOR ALL WORK REQUIRED. ALL CERTIFICATES OF INSPECTION SHALL BE DELIVERED TO THE OWNER.
- 15 SHOP DRAWINGS TO BE SUBMITTED (SIX COPIES) FOR ALL EQUIPMENT, FIXTURES AND PIPING LAYOUTS WITHIN 14 DAYS OF CONTRACT AWARDING FOR REVIEW. ANY MINOR CHANGES IN LOCATION OF EQUIPMENT, PIPING OR FIXTURES FROM THOSE SHOWN ON THE DRAWINGS SHALL BE MADE WITHOUT CHARGE.
- PROVIDE IN A BOUND FORM TWO (2) SETS OF OPERATIONS, MAINTENANCE AND INSTRUCTION MANUALS, INCLUDING INFORMATION ON SPARE PARTS, ETC., FOR ALL FIXTURES. PROVIDE TWO (2) SETS OF ACCURATELY MARKED "AS BUILT" PRINTS AND ELECTRONIC FILE OF AS-BUILTS.
- UMARRANTY ANY DEFECTS TO ALL FIXTURES, MATERIALS AND LABOR FOR A PERIOD OF ONE (1) YEAR AFTER FINAL ACCEPTANCE OF THE BUILDING BY THE ARCHITECT AND ENGINEER. DEFECTIVE FIXTURES AND MATERIALS SHALL BE REPAIRED OR REPLACED AT NO COST TO THE OWNER GUARANTEE THAT ALL WORKMANSHIP IS OF HIGH QUALITY AND THAT ALL EQUIPMENT FURNISHED UNDER THIS CONTRACT FULFILLS THE REQUIREMENTS OF THE SPECIFICATIONS.

PART 2 - PIPING MATERIALS

- 2.1 DOMESTIC HOT, COLD AND HOT WATER RECIRC PIPING SHALL BE TYPE "L" COPPER WITH WROUGHT COPPER FITTINGS SUITABLE FOR SOLDERED JOINTS. SOLDERED JOINT CONNECTION SHALL BE MADE WITH 95/5 SOLDER.
- 22 PROVIDE DIELECTRIC FITTINGS BETWEEN DISSIMILAR PIPING MATERIALS.
- PIPE HANGERS TO BE EQUAL TO CRANE 239F CLEVIS TYPE OR CRANE 101G C.I. RING, ADJUSTABLE SWIVEL HANGERS. ALL SUPPORTS AND HANGERS SHALL BE SO CONSTRUCTED AND ADJUSTED AS TO ALLOW FOR PROPER PITCH AND EXPANSION OF PIPES. ALL INSULATED PIPING RESTING ON PIPE SUPPORT AND ALL WATER PIPING SHALL BE PROVIDED WITH NO. 18 GAUGE GALVANIZED STEEL HINGED REMOVABLE PIPE COVERING PROTECTION SLEEVES WITH A NO. 12 GAUGE REINFORCING PLATE ON THE BOTTOM EQUAL TO THOSE MANUFACTURED BY STEMBRIDGE MANUFACTURING COMPANY. HANGERS AT POINTS OF SUPPORT FOR SUCH PIPING SHALL BE OF AMPLE SIZE TO ENCLOSE THE PIPE COVERING WITHOUT NOTCHING.
- 2.4 PIPING INSULATION FOR DOMESTIC HOT, COLD AND HOT WATER RECIRC PIPING AND OVERHEAD STORM PIPING SHALL BE I'THICK JOHNS-MANVILLE FLAME-SAFE GC FIBERGLASS PIPE INSULATION WITH VAPOR BARRIER JACKET.
- ABOVE GROUND (INSIDE BUILDING) STORM DRAINAGE PIPE SHALL BE SERVICE WEIGHT HUB AND SPIGOT CAST IRON PIPING AND FITTINGS (ASTM A74-1987).

 1. INTERIOR PIPING INSULATION FOR SYSTEMS WITH OPERATING TEMPERATURES UP TO 650°F SHALL BE 1-172" THICK JOHNS MANVILLE MICRO-LOK 650° AP FIBERGLASS INSULATION (OR APPROVED EQUAL). PIPE INSULATION TO BE FURNISHED WITH VAPOR BARRIER JACKET AND SHALL BE INSTALLED WITH CONTINUOUS, UNBROKEN VAPOR SEAL. INSULATION COVER TO BE SEALED WITH ADHESIVE ONLY AND VAPOR SEAL TAPE APPLIED OVER JOINTS.
 - FITTINGS, ROOF SUMPS, AND FLANGES SHALL BE INSULATED WITH JOHNS MANYILLE ZESTON PVC FITTING COVERS AND HI-LO TEMP INSULATION (OR APPROVED EQUAL). TWO (2) LAYERS OF FACTORY PRECUIT HI-LO TEMP INSULATION INSERTS SHALL BE APPLIED TO FITTINGS WITH THE FIRST LAYER WRAPPED WITH FIBERGLASS YARN.

PART 3 - PLUMBING FIXTURES AND EQUIPMENT

FIXTURES TO BE MANUFACTURED BY AND EQUIVALENT TO AS SCHEDULED ON THE DRAWINGS. FIXTURES SHALL BE COMPLETE WITH ALL ACCESSORIES, SUPPLIES, FRAMES, WALL HANGERS, ETC. AND SHALL BE NEW AND FREE FROM FLAWS DEFECTS OR BLEMISHES. ALL FINISHED SURFACES SHALL BE CLEAR, SMOOTH AND BRIGHT AND GUARANTEED NOT TO CRAZE, DISCOLOR OR SCALE. ALL VISIBLE PARTS OF THE TRIMMING OF ALL FIXTURES, INCLUDING FAUCETS, ESCUTCHEONS, SUPPLIES, ETC., SHALL BE HEAVILY CHROME PLATED.

PART 4 - EXECUTION

- REFER TO ARCHITECTURAL ELEVATIONS FOR FINAL MOUNTING HEIGHTS OF ALL PLUMBING FIXTURES ON THIS PROJECT.
- 4.2 SUPPLY AND INSTALL SHUT-OFF VALVES ON ALL MAIN BRANCHES, AT ALL FIXTURES AND ELSEWHERE AS SHOWN OR AS REQUIRED. ALL VALVES SHALL HAVE MINIMUM 125 PSI PRESSURE RATING AND SHALL BE AS SHOWN OR AS REQUIRED TO SUIT JOB CONDITIONS.
- 43 NO BULL HEADED TEES SHALL BE USED ON WATER PIPING.
- 4.4 STERILIZE AND TEST WATER AND PIPING SYSTEMS AS PER LOCAL AND STATE REQUIREMENTS.
- 4.5 THE DISINFECTING AND FLUSHING PROCEDURE SHALL BE REPEATED AS DIRECTED UNTIL A LABORATORY BACTERIOLOGICAL EXAMINATION OF WATER SAMPLES INDICATES THAT THE SYSTEM IS FREE FROM CONTAMINATION AS APPROVED BY THE LOCAL WATER AUTHORITIES AND COPIES OF THEIR REPORT SUBMITTED TO THE ARCHITECT.

PART 5 - WORK IN EXISTING BUILDING

- 5.1 VISIT SITE PRIOR TO BID AND VERIFY ALL EXISTING PLUMBING SYSTEMS TO VERIFY QUANTITIES AND LOCATIONS OF EXISTING SYSTEMS TO DETERMINE EXTENT OF NEW AND DEMOLITION WORK.
- 5.2 COORDINATE NEW INSTALLATIONS WITH EXISTING SYSTEMS. NO EXTRAS WILL BE ALLOWED AFTER BIDDING FOR ANY REWORK OF EXISTING FIELD CONDITIONS TO RESOLVE ANY CONFLICTS OR NOT FULLY UNDERSTANDING THE SCOPE OF THE WORK REQUIRED.
- 5.3 REMOVE ALL EXISTING CEILINGS REQUIRED FOR INSTALLATION OF NEW WORK.

 CONTRACTOR IS TO REINSTALL CEILING UPON COMPLETION OF WORK REPLACE ALL

 DAMAGED CEILING MATERIALS TO MATCH EXISTING.

MECHANICAL GENERAL NOTES

PARTI - GENERAL

- 1.1 FURNISH AND INSTALL ALL LABOR AND MATERIALS NECESSARY TO PROVIDE A COMPLETE INSTALLATION OF ALL MECHANICAL SERVICES AND SYSTEMS INDICATED AND AS MAY BE REQUIRED TO MAKE THE WORK COMPLETE FOR THE PURPOSE INTENDED. LAYOUTS SHOWN ARE DIAGRAMMATIC.
- BIDDING REQUIREMENTS: VISIT SITE PRIOR TO BIDDING TO FULLY ACQUAINT HIMSELF WITH ALL FIELD CONDITIONS AND TO DETERMINE FULL EXTENT OF WORK REQUIRED. COORDINATE NEW INSTALLATIONS WITH EXISTING SYSTEMS. ANY ITEMS NOT SPECIFICALLY INDICATED ON DRAWINGS THAT ARE IN CONFLICT WITH CONTRACT WORK SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO BID FOR A DECISION. BIDDERS SHALL ACQUAINT THEMSELVES WITH THE WORKING CONDITIONS AND REQUIREMENTS OF THE ENTIRE PROJECT, AS ANY CONTRACT FOR THIS WORK WILL BE BASED UPON FURNISHING ALL LABOR AND MATERIALS REQUIRED TO ENTIRELY COMPLETE WORK READY FOR USE.
- 1.3 CODES: ALL WORK SHALL COMPLY WITH LOCAL, MUNICIPAL, STATE HVAC CODES. ALL MATERIALS SHALL BE IN COMPLIANCE WITH NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) STANDARDS.
- 1.4 OBTAIN AND PAY FOR ALL LICENSES, PERMITS AND INSPECTIONS FOR ALL WORK REQUIRED. ALL CERTIFICATES OF INSPECTION SHALL BE DELIVERED TO THE OWNER.
- 15 SCHEDULE ALL WORK TO AVOID DOWNTIME AND INCONVENIENCE TO OWNER. OWNER'S EXISTING FACILITY SHALL REMAIN IN OPERATION AT ALL TIMES. ALL REQUIRED SHUTDOWN OF EXISTING UTILITIES SHALL BE SCHEDULED WITH OWNER'S OPERATING PERSONNEL. NOTIFY OWNER'S REPRESENTATIVE 48 HOURS IN ADVANCE PRIOR TO ANY SHUTDOWN OF EXISTING SYSTEMS.
- 1.6 TEMPORARY SERVICES ARE TO BE PROVIDED TO MAINTAIN OPERATION OF FACILITY DURING THE PHASING OF WORK, INCLUDING TEMPORARY PIPING, ETC.
- UMARRANTY ANY DEFECTS TO ALL EQUIPMENT, MATERIALS AND LABOR FOR A PERIOD OF ONE (1) YEAR AFTER FINAL ACCEPTANCE OF THE BUILDING BY THE ARCHITECT AND ENGINEER (FIVE YEARS FOR REFRIGERATION COMPRESSORS PARTS AND LABOR). DEFECTIVE MATERIALS SHALL BE REPAIRED OR REPLACED AT NO COST TO THE OWNER GUARANTEE THAT ALL WORKMANSHIP IS OF HIGH QUALITY AND THAT ALL EQUIPMENT FURNISHED UNDER THIS CONTRACT FULFILLS THE REQUIREMENTS OF THE SPECIFICATIONS.

PART 2 - AIR DISTRIBUTION SYSTEMS

2.1 DUCTWORK TO BE GALVANIZED SHEETMETAL FABRICATED ACCORDING TO SMACNA'S DUCT CONSTRUCTION STANDARDS (LATEST EDITION). UTILIZE PITTSBURGH LOCK SEAMS FOR ALL LONGITUDINAL SEAMS (NO EXCEPTIONS). SEAL ALL JOINTS AND SEAMS FOR AN AIRTIGHT INSTALLATION. EXPOSED DUCTWORK AND SHEETMETAL PANS IN FINISHED AREAS ARE TO BE PROVIDED WITH PAINT-GRIP READY FOR PRIMING AND PAINTING, ALL EXPOSED ROUND DUCTWORK TO BE SPIRAL TYPE DUCTWORK AND FITTINGS.

PART 3 - WORK IN EXISTING BUILDINGS

- 3.1 FIELD VERIFY IF EXISTING ASBESTOS WILL BE ENCOUNTERED PRIOR TO STARTING ANY WORK. IF ASBESTOS IS PRESENT, THE OWNER WILL PROVIDE FOR THE REMOVAL OF ANY MATERIAL CONTAINING ASBESTOS. SEE SPECIFICATIONS FOR FURTHER REQUIREMENTS.
- 3.2 REMOVE ALL EXISTING CEILINGS REQUIRED FOR INSTALLATION OF NEW WORK.

 CONTRACTOR IS TO REINSTALL CEILING UPON COMPLETION OF WORK. REPLACE ALL

 DAMAGED CEILING MATERIALS TO MATCH EXISTING.
- 3.3 ALL EXISTING EQUIPMENT, DUCTWORK, PIPING, ETC., SHALL BE REMOVED AS NOTED ON DRAWINGS AND AS REQUIRED TO MEET NEW SCOPE OF WORK. ALL EXISTING EQUIPMENT SHALL REMAIN PROPERTY OF THE OWNER AND OWNER SHALL DETERMINE IF CONTRACTOR IS TO STORE EQUIPMENT ON SITE AT OWNER SELECTED LOCATION OR IF CONTRACTOR IS TO ABANDON OR REMOVE EQUIPMENT FROM SITE.
- 3.4 REMOVED DUCTWORK AND PIPING IS TO BE TERMINATED PROPERLY BACK TO EXISTING MAINS. PATCH AND SEAL EXISTING DUCTWORK AIRTIGHT. CAP PIPING WATERTIGHT. NO DUCTWORK, PIPING, SUPPORTS, HANGERS, OR EQUIPMENT IS TO BE LEFT ABANDONED. VERIFY LOCATION AND ELEVATION OF EXISTING TO BE REMOVED IN FIELD.
- 3.5 DRAIN AND REFILL EXISTING PIPING SYSTEMS AS REQUIRED FOR INSTALLATION OF NEW WORK. CONTRACTOR TO PROVIDE CHEMICAL TREATMENT FOR WATER PIPING SYSTEM ACCORDING TO OWNER'S REQUIREMENTS AFTER SYSTEM IS FILLED.
- 36 REMOVE EXISTING THERMOSTATS, PNEUMATIC TUBE AND/OR WIRING AND CONTROLS AS REQUIRED FOR THE RENOVATIONS.

PART 4 - EXECUTION

4.1 REGISTERS, GRILLES AND DIFFUSERS: COORDINATE EXACT LOCATION OF ALL CEILING REGISTERS, GRILLES AND DIFFUSERS WITH LIGHTING LAYOUT, ETC. SEE ARCHITECTURAL REFLECTED CEILING PLAN. VERIFY EXACT LOCATION WITH ARCHITECT IN FIELD PRIOR TO INSTALLATION.



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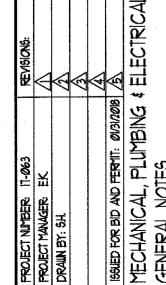
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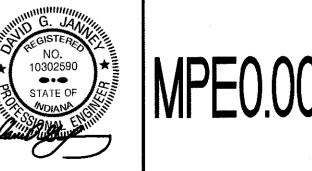
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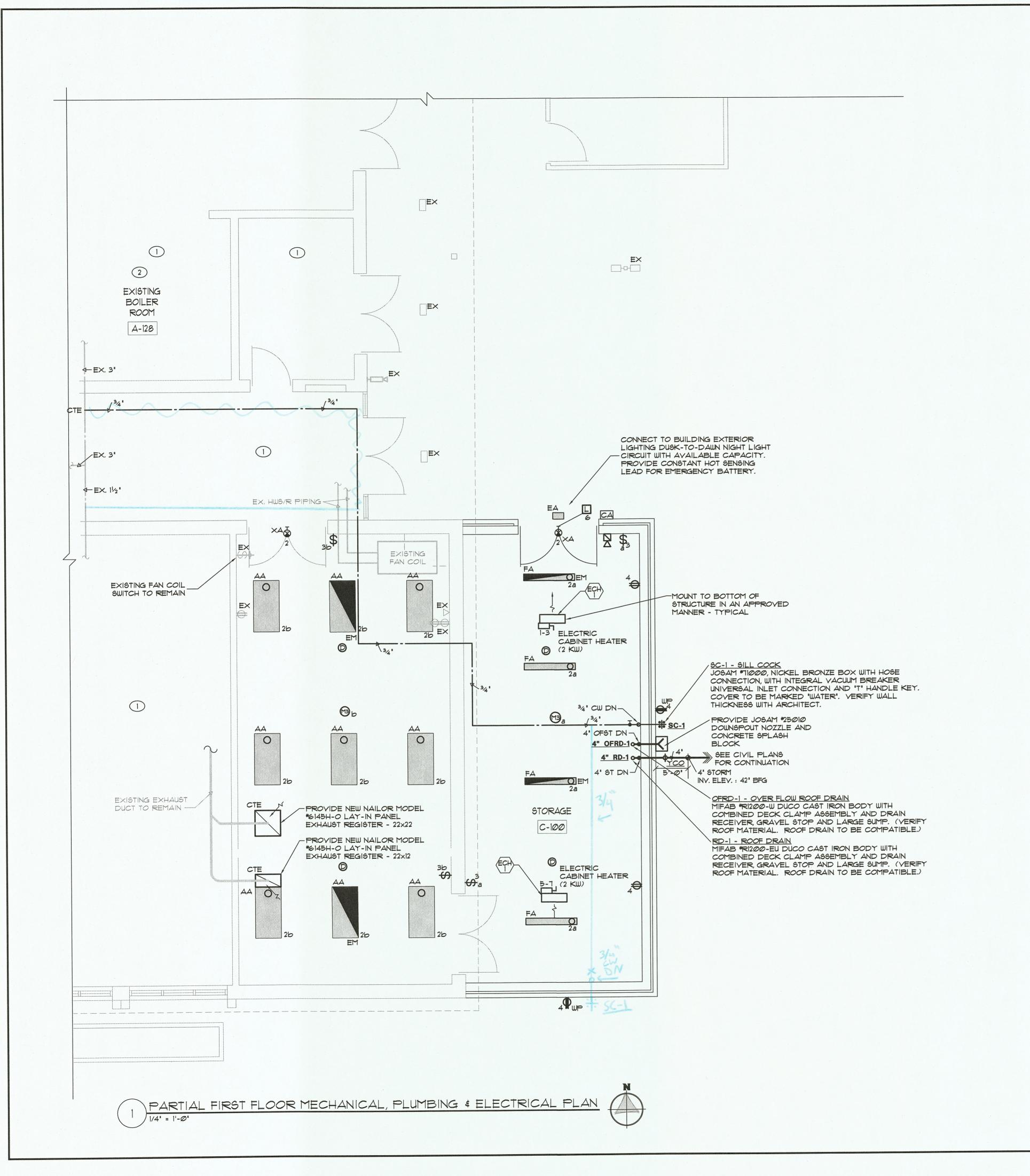
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DUNELAND SCHOOL CORPORATION
2018 ADDITION AT:
BRUMMITT ELEMENTARY SCHOOL
BOUNDARY ROAD CHESTERTON, INDIAN







SHEET NOTES

- EXISTING LIGHTING AND POWER TO REMAIN.
- APPROXIMATE LOCATION OF EXISTING SQUARE-D 120/208V, 3+, 4W PANEL '28'
 WITH 7 SPACES. PROVIDE NEW CIRCUIT BREAKERS AS REQUIRED TO ACCOMMODATE NEW LOADS.

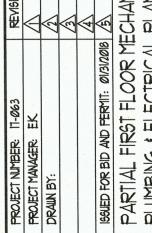
GENERAL NOTES

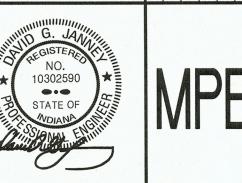
- DEVICES SHALL BE CONNECTED TO EXISTING PANEL '28', CIRCUIT NUMBERS SHOWN ARE NOT ACTUAL, BUT ARE SHOWN TO INDICATE CIRCUITING REQUIREMENTS. VERIFY ACTUAL CIRCUIT ASSIGNMENTS IN FIELD.
- 2. PROVIDE SURFACE RACEWAY AND SURFACE RACEWAY BACKBOXES AS REQUIRED FOR EXISTING WALLS WITH NEW DEVICES.

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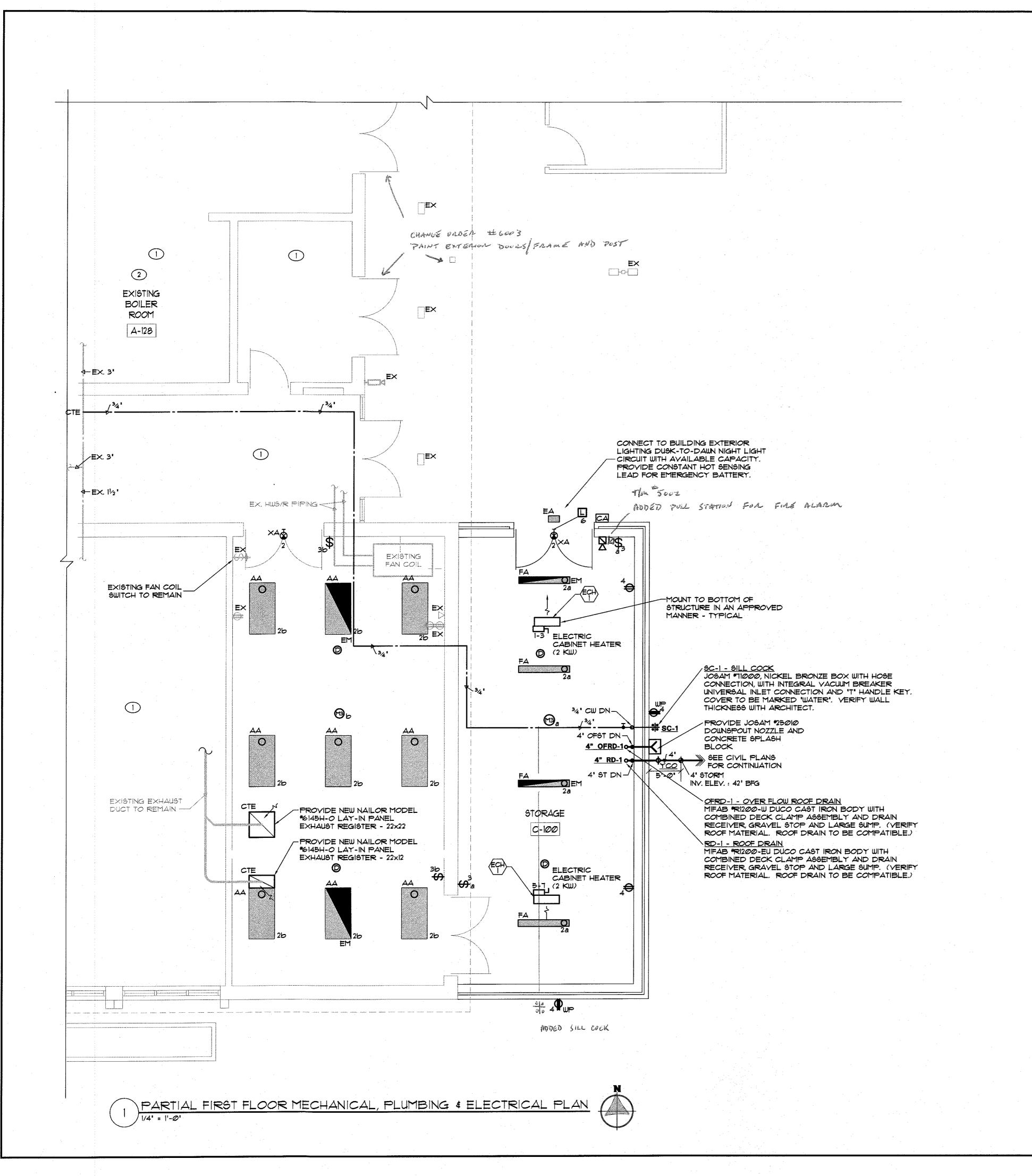
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SHEET NOTES

EXISTING LIGHTING AND POWER TO REMAIN.

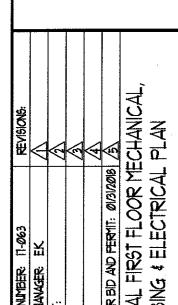
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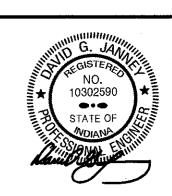
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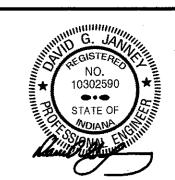
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AREA OF



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TAG	MANUFACTURER	MODEL NUMBER	DESCRIPTION	CFM	HEATING CAPACITY	AMPS	VOLT/ PHASE	PANEL	STARTER/ CKT. NO.	FUSED SW/	FEEDE CABLE	R C	DISC	M.C.	CONTROLLED UNITS BY	REMARKS
ECH-1	QMARK	MuH-@321	ELECTRIC UNIT HEATER	350	2.2 KW	11.0 A	208/1	EX PANEL	YARIES	15A/2P	3 #12 & 1 #12 GRD.	3/4"	√		INTEGRAL THERMOSTAT	PROVIDE WITH ISOLATION MOUNT AND INTEGRAL DISCONNECT

			NTERIOR/EXTERIOR	LIGHT	ING L	UMINA	IRE SCHEDULE
TAG	SYMBOL	DESCRIPTION	MANUFACTURER SERIES DR CATALOG NUMBER	VOLTAGE/ BALLAST	LAMPS/CROSS SECTION	MOUNTING	REMARKS
ДД		WITH FLAT WHITE STEEL DOOR	LITHONIA *2GTL-4-30L-EZI-LP835 OR APPROVED EQUAL BY HUBBELL OR METALUX LIGHTING	120/277 VOLT 0-10V DIM -	LED 3500K CRI +85 MIN 3000 LM	RECESSED LAY-IN	-VERIFY FINAL COLOR TEMPERATURE WITH ARCHITECT
FA	- ·	WITH WIREGUARD AND SAFETY CHAINS	LITHONIA *7LIN-L48-5000LM-FST-MVOLT-35K-80CRI-WH- XX-WG248 OR APPROVED EQUAL BY HUBBELL OR COOPER LIGHTING	120/277 VOLT Ø-10V DIM	LED 3500K CRI +85 MIN 5000 LM	@ ?'-?" AFF.	-COORD LOCATIONS WITH DUCTWORK & PIPING
EA			LITHONIA *WST LED-P3-40K-VF-MVOLT-ETWC-XX OR APPROVED EQUAL	12Ø/277 VOLT	LED 4000K	WALL MOUNTED	-VERIFY FINISH WITH ARCHITECT -PROVIDE CONSTANT HOT BATTERY FEED
ХА	⊗ 🌣		LITHONIA LE-S-W-1-G-120/277-ELN OR APPROVED EQUAL BY DUAL-LITE OR SURE-LITES	12Ø/277 VOLT	LED.	CEILING/ WALL	-FURNISH WITH ARROWS AS REQ'D BY CODE -PROVIDE WIRE GUARD WHERE INDICATED ON PLANS
EM XL		FIXTURE WITH 90 MINUTE BATTERY UNIT OR INVERTER	FACTORY INSTALLED EM DRIVER (LED) OR MYERS LY SERIES INVERTER (LED)	120/277 VOLT	-	IN FIXTURE/ REMOTE	REMOTE MOUNT IN ACCESSIBLE CEILINGS WHERE INTERNAL INSTALLATION IS NOT POSSIBLE (PROVIDE TEST SWITCH & ALL NECESSARY APPURTENANCES)

MECHANICAL ABBREVIATIONS

ABBREVIATIONS DESCRIPTION

CTE CONNECT TO EXISTING

EX EXISTING

EXH EXHAUST

HWS HOT WATER SUPPLY

HWR HOT WATER RETURN

OBD OPPOSED BLADE DAMPER

T/A TRANSFER AIR

ELECTRICAL ABBREVIATIONS

NOTE: ABBREVIATIONS USED ON DRAWINGS IN GENERAL ARE LISTED BELOW. REFER TO CSI SECTION Ø1420 FOR ANY ABBREVIATIONS

	AMPS	KYA	KILOYOLT AMPERE
C	AIR CONDITIONING	KW	KILOWATTS
Æ	ABOVE FINISH FLOOR	MECH	MECHANICAL
FG	ABOVE FINISH GRADE	MTD	MOUNTED
RKR	BREAKER	NE	NEW LOCATION OF EXISTING RELOCATED DEVICE
,	CONDUIT	NIC	NOT IN CONTRACT
H	CABINET HEATER	NL	NIGHTLIGHT
KT	CIRCUIT	NTS	NOT TO SCALE
ISTR	DISTRIBUTION	OC	ON CENTER
F	EXHAUST FAN	P	POLE
LEC	ELECTRICAL	PNL	PANEL
M	EMERGENCY	PH	PHASE
MT	ELECTRICAL METALLIC TUBING	RR	REMOVE AND RELOCATED EXISTING DEVICE
R	EXISTING DEVICE TO BE REMOVED	SW	SWITCH
×	EXISTING DEVICE TO REMAIN	TYP	TYPICAL
	FUSE	UON	UNLESS OTHERWISE NOTED
ŝ	FUSIBLE SWITCH	Y	VOLTS
- -	GROUND	YIF .	YERIFY IN FIELD
F	GROUND FAULT INTERRUPTING PROTECTION	W	WATTS
RC	GALVANIZED RIGID CONDUIT	₩₽	WEATHERPROOF TYPE DEVICE
P	HORSEPOWER	WG	WIRE GUARD
•	JUNCTION BOX	F≰I	FURNISH AND INSTALL

SYMBOL LIST

FIRE ALARM DEVICES, MOUNTING HEIGHT, ETC. SHALL COMPLY WITH 'ADA' STANDARDS.

FIRE ALARM SYSTEM HEAT DETECTOR - COMBINATION TYPE (R/R - FIXED TEMP.) IN BOILER ROOM

FIRE ALARM AUDIO/VISUAL DEVICE MTD. 80' A.F. OR 6' BELOW FINISHED CEILING WHICHEVER IS LOWER.

CARD ACCESS CONTROLLER - PROVIDE BACK BOX MOUNTED 42" A.F.F. WITH 34"C. ROUTED TO THE ACCESSIBLE CEILING SPACE. PROVIDE BUILDING STANDARD DEVICE AND CABLING BACK TO HEAD END FOR A COMPLETE AND PROPER

ELECTRIC DOOR STRIKE - STUB 3/4" CONDUIT FROM THE ACCESSIBLE CEILING SPACE TO THE DOOR MULLION FOR WIRING. INTERFACE WIRING FROM THE DOOR STRIKE TO THE DOOR ACCESS SYSTEM FOR A COMPLETE AND PROPERLY OPERATING SYSTEM.

HEEM EXISTING CAMERA

INSTALLATION.

FURNISH AND INSTALL CEILING MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR WITH POWER PACK. MANUFACTURERS: SENSORSWITCH *CM-PDT-10-MP-20 (WITH MICROPHONICS) OR APPROVED EQUAL BY LEVITON OR COOPER CONTROLS.

GENERAL PURPOSE 3-WAY SWITCH MTD 42" AFF (HUBBELL #1223 OR EQUAL)

120Y-20A SPECIFICATION GRADE DUPLEX RECEPTACLE - (MOUNTED 18" AFF. OR AS NOTED) (HUBBELL #5362 OR EQUAL).

120V-20A SPECIFICATION GRADE GROUNDED DUPLEX RECEPTACLE WITH G.F.I. PROTECTION - (MOUNTED 18" AFF. OR AS NOTED) (HUBBELL "GF20 OR EQUAL)

JUNCTION BOX - SIZE AND TYPE AS REQUIRED.

- FLEX CONDUIT CONNECTION

JUNCTION BOX W/ FLEX CONDUIT CONNECTION.

HEXAGON TAG REFERENCE TO EQUIPMENT CONNECTION SCHEDULE

ELLIPSE TAG REFERENCE TO SHEET NOTES

ELECTRIC PANELBOARDS.

DISCONNECT SWITCH SIZE AND TYPE AS REQUIRED - COORDINATE AMPERE RATING WITH EQUIPMENT SUPPLIER

EXISTING COLD WATER

EXISTING PIPING

--- NEW COLD WATER

---- PIPING TO BE REMOVED

HUS - HOT WATER SUPPLY PIPING

- HUR - HOT WATER RETURN PIPING

PIPE TURNED DOWN

EXISTING DUCTWORK

RETURN OR EXHAUST REGISTER

THERMOSTAT - ADJUSTABLE



CORPORATION ADDITION AT: EMENTARY SCHOOI AD CHESTERTON, CHOOL CHOOL

