

SAFETY DEFICIENCIES RENOVATION AT BASEBALL AND SOFTBALL FIELDHOUSES AT WOLFSON HIGH SCHOOL NO. 224

DUVAL COUNTY PUBLIC SCHOOLS
JACKSONVILLE, FLORIDA

SCHOOL BOARD MEMBERS

- SUPERINTENDENT OF SCHOOLS - DR. DIANA GREENE
- DISTRICT 1 : MS. CHERYL GRYMES
 - DISTRICT 2 : MS. ELIZABETH ANDERSEN
 - DISTRICT 3 : MS. ASHLEY SMITH JUAREZ
 - DISTRICT 4 : MR. DARRYL WILLIE
 - DISTRICT 5 : MR. WARREN JONES
 - DISTRICT 6 : MS. CHARLOTTE JOYCE
 - DISTRICT 7 : MS. LORI HERSHEY

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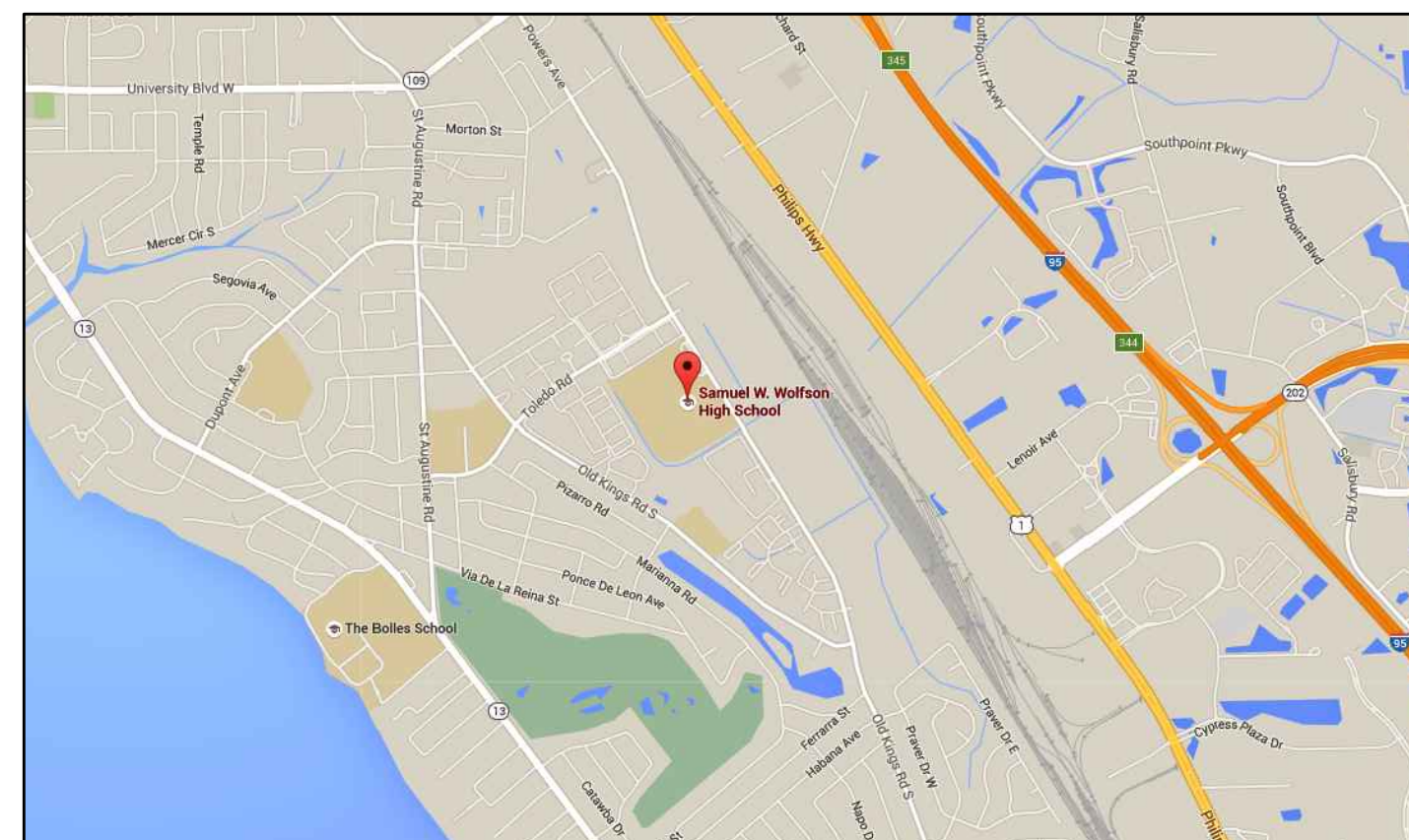
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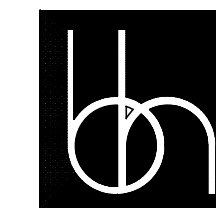
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DCSB PROJECT NO. M-83680



VICINITY MAP



BHIDE & HALL ARCHITECTS, P.A.

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LIC. # AAC-000569

BH PROJECT NO. 15054

PERMIT SET

APRIL 22, 2020

▲
 OBCE COMMENTS
 AND ADDENDA 1 & 2

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REFER TO SHEET A2.1 FOR PROJECT SCOPE

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SAFETY DEFICIENCIES AT BASEBALL AND SOFTBALL
 FIELDHOUSES AT WOLFSON HIGH SCHOOL NO. 224
 7000 POWERS AVENUE
 JACKSONVILLE, FLORIDA 32217

Architect
 Robert
McVeigh

License No.
 AR0011549

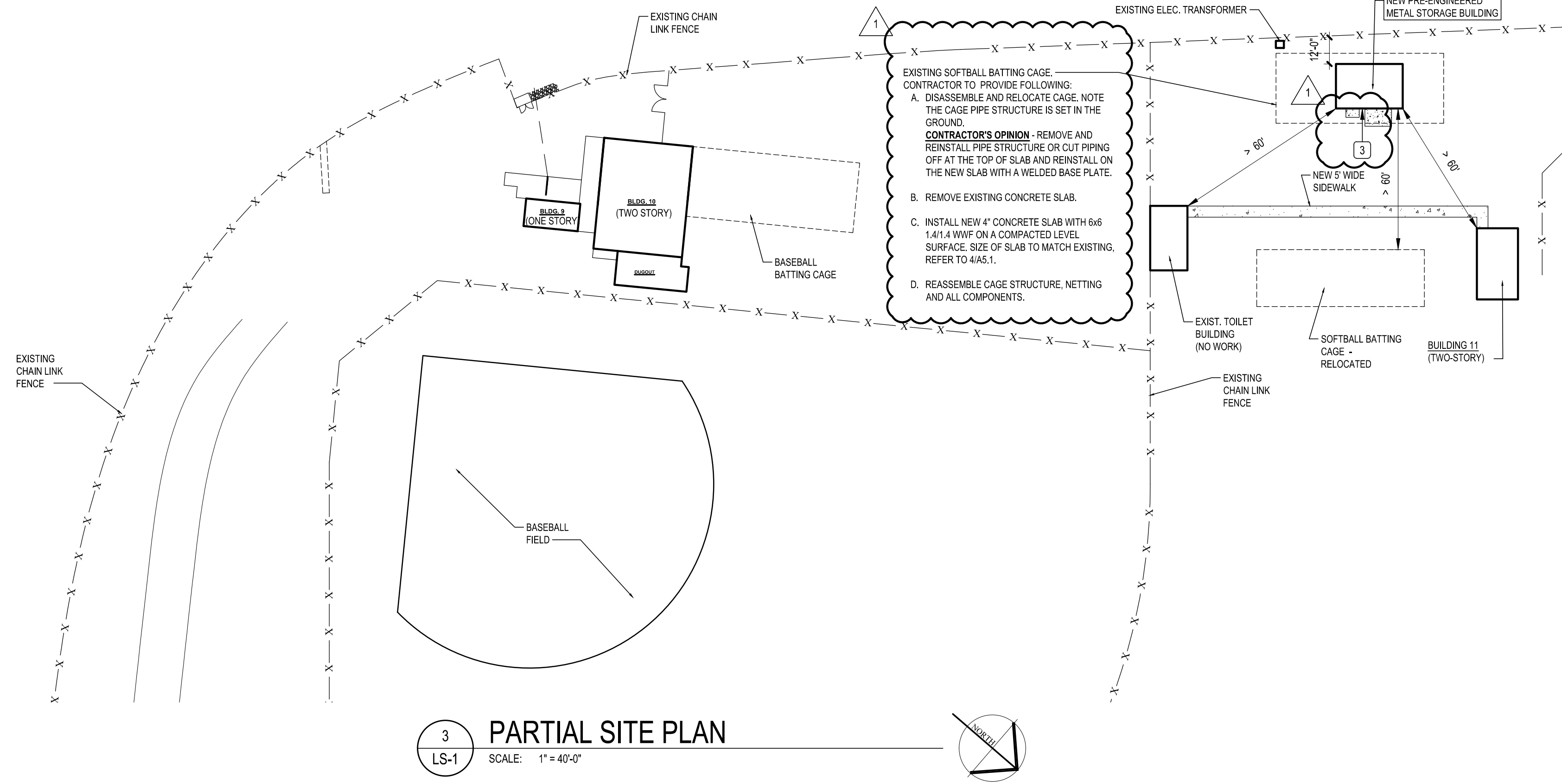
REVISIONS
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COVER SHEET

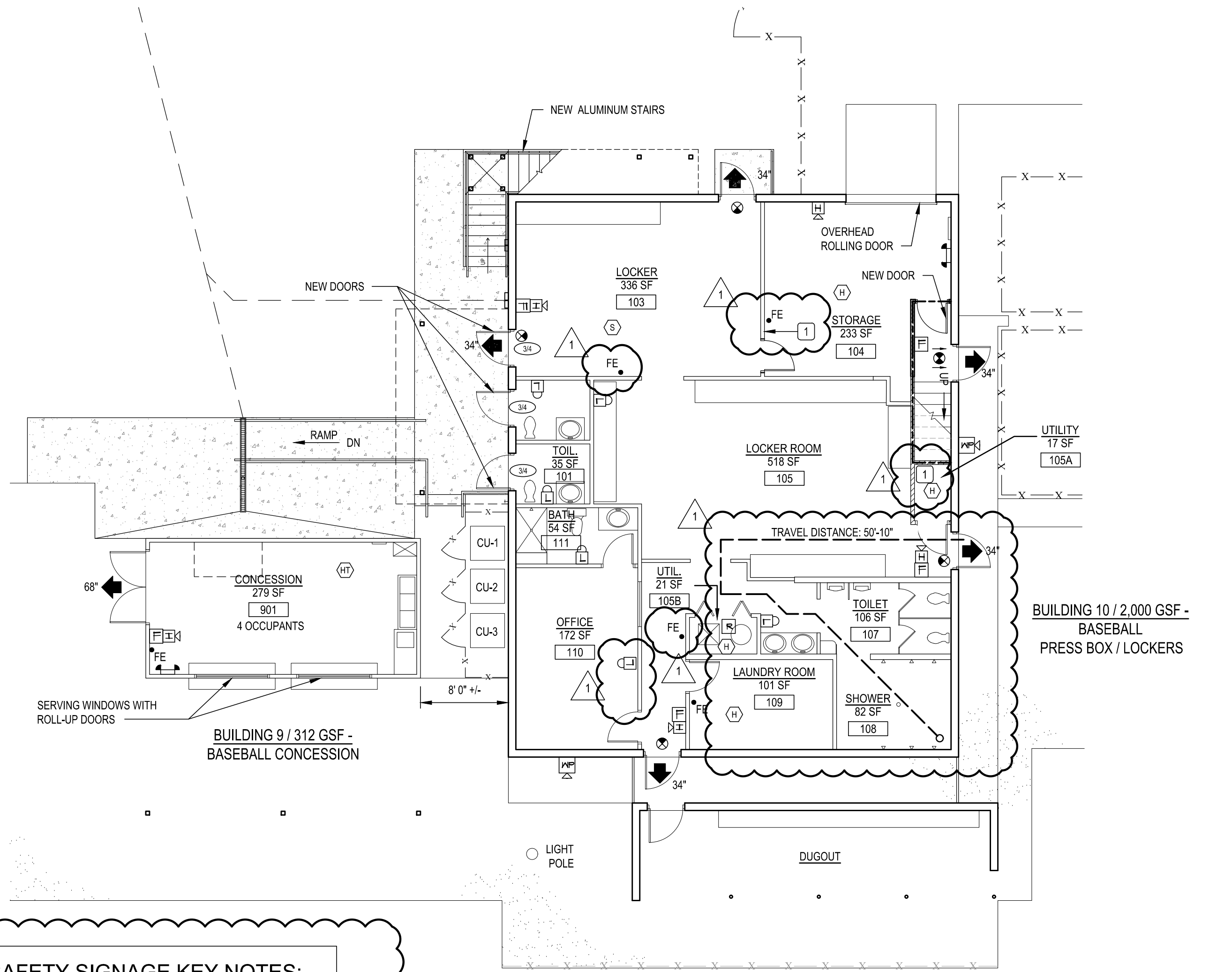
DATE APR. 22, 2020
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C.B. REM
JOB NO. 15054

PERMIT SET

G-001



3 PARTIAL SITE PLAN
SCALE: 1" = 40'-0"



BUILDINGS 9 & 10 - FIRST FLOOR LIFE SAFETY PLAN
SCALE: 1/8" = 1'-0"

CODE SUMMARY
FLORIDA BUILDING CODE (FBC) 6TH EDITION (2017)
FLORIDA BUILDING CODE, EXISTING (FBC) 6TH EDITION (2017)
FLORIDA FIRE PREVENTION CODE (FFPC) 6TH EDITION (2017)
NFPA 101 2015 CHAPTER 15 EXISTING EDUCATIONAL OCCUPANCIES
CHAPTER 39 EXISTING BUSINESS OCCUPANCIES

BUILDING 9 - BASEBALL CONCESSION BUILDING
EXISTING BUSINESS OCCUPANCY - LEVEL 2 ALTERATIONS (FBC EXISTING BLDG)
1-STORY - TYPE V CONSTRUCTION
WOOD STUD EXTERIOR WALLS WITH WOOD ROOF TRUSSES
NFPA 101.7.10.1.2.1 (FBC 1013.1): EXIT SIGN NOT REQUIRED SINCE EXIT IS THROUGH SINGLE DOOR THAT IS OBVIOUS

BUILDING 10 - BASEBALL PRESS BOX/LOCKER FACILITY
EXISTING EDUCATIONAL OCCUPANCY
2-STORY - TYPE V CONSTRUCTION
CONCRETE BLOCK WALLS WITH WOOD FRAME INTERIOR WALLS, FLOORS AND ROOF TRUSSES
4000 SF GROSS BUILDING

NFPA 101-15.2.4.2: (2) EXITS REQUIRED.
FBC 1023.3 INTERIOR STAIRWAYS SHALL TERMINATE AT AN EXIT DISCHARGE.
FBC 1602: 1 HOUR EXTERIOR WALL REQUIRED (FIRE SEPARATION DISTANCE TO BUILDING 9) AND 3/4 HOUR DOORS
NFPA 101-15.3.4.2: FIRE ALARM SYSTEM REQUIRED WHEN BUILDING EXCEEDS 1000SF

BUILDING 11 - SOFTBALL CONCESSIONS AND PRESS BOX
EXISTING BUSINESS OCCUPANCY - LEVEL 2 ALTERATIONS (FBC EXISTING BUILDING)
2-STORY - TYPE V CONSTRUCTION
CONCRETE BLOCK WALLS WITH WOOD FRAME INTERIOR WALLS, FLOORS AND ROOF TRUSSES

NFPA 101.39.2.4.3A: SINGLE EXIT PERMITTED WITH OCCUPANT LOAD LESS THAN 30 (FBC EXISTING BUILDING 805.3.1: NOT EXCEEDING 50)
FBC EXISTING BUILDING 804.2.2: FIRE SPRINKLER NOT REQUIRED

NFPA 101.7.2.2.3.3 (FBC 1011.10): EXISTING SPIRAL STAIR CAN BE COMPONENT IN THE MEANS OF EGRESS WHEN OCCUPANT LOAD IS LESS THAN 5

NFPA 101.7.10.1.2.1 (FBC 1013.1) EXIT SIGNS ARE NOT REQUIRED SINCE EXITING FROM EACH ROOM IS THROUGH A SINGLE DOOR THAT IS OBVIOUS

EGRESS SUMMARY

BUILDING 9-BASEBALL CONCESSIONS BUILDING
(CONCESSION, 100 SF / OCCUPANT)
312 SF / 100 SF / OCCUPANT = 4 OCCUPANTS
0.2 X 4 OCCUPANTS = 0.8' (EXIT) REQUIRED
34" PROVIDED

BUILDING 10 - BASEBALL PRESS BOX FACILITY
REFER TO EGRESS CALCULATION CHARTS THIS SHEET

BUILDING 11 - SOFTBALL CONCESSION AND PRESS BOX

FIRST FLOOR:
STORAGE 128 SF / 100 SF / OCCUPANT = 2 OCCUPANTS
CONCESSION 208 SF / 100 SF / OCCUPANT = 3 OCCUPANTS
STORAGE + CONCESSION = 5 OCCUPANTS
0.2 X 5 OCCUPANTS = 1' (EXIT) REQUIRED
34" PROVIDED

SECOND FLOOR:
PRESS BOX 128 SF / 100 SF / OCCUPANT = 2 OCCUPANTS
0.3 X 5 OCCUPANTS = 6' (EXIT) REQUIRED
34" PROVIDED

LIFE SAFETY LEGEND:

- EXIT LIGHT
- FLUSH MOUNTED MANUAL FIRE ALARM PULL STATION
- SEMI-FLUSH MOUNTED AUDIO/VISUAL ALARM (HORN / STROBE)
- SEMI-FLUSH VISUAL ALARM (STROBE)
- SMOKE DETECTOR
- CEILING MOUNTED HEAT DETECTOR
- HEAT DETECTOR TAPE ABOVE CEILING (REFER TO ELECTRICAL DRAWINGS)
- WEATHERPROOF HORN
- EMERGENCY LIGHT FIXTURE
- FIRE EXTINGUISHER
- EXIT WIDTH IN INCHES
- DOOR FIRE RATING
- 1 HR FIRE / SMOKE WALL
- TRAVEL DISTANCE

NOTE: FIRE EXTINGUISHERS INDICATED ARE BOTH NEW AND EXISTING. FOR BIDDING, PROVIDE 5 NEW EXTINGUISHERS, 5 LB., MULTIPURPOSE TYPE 3-A, 10-B-C, BRACKET MOUNTED

LIFE SAFETY SIGNAGE KEY NOTES:
PROVIDE THE FOLLOWING SIGNS:

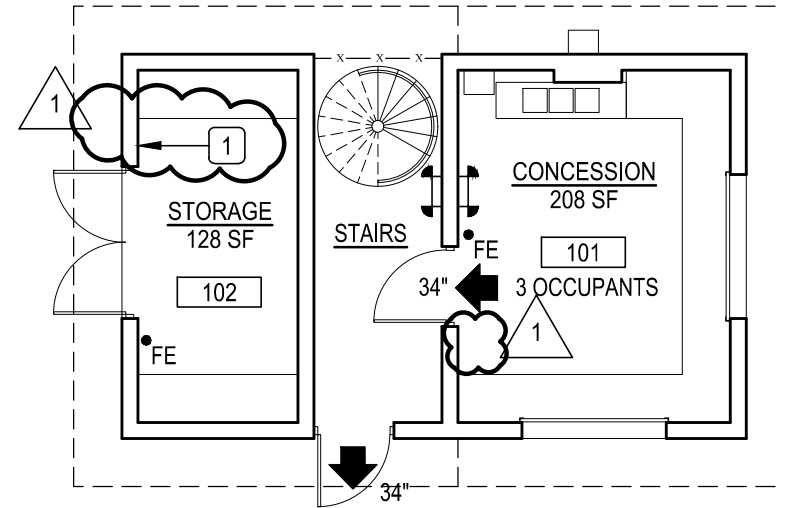
- STORAGE OF FLAMMABLE MATERIALS IS PROHIBITED IN THIS ROOM
- MAXIMUM CAPACITY 45 OCCUPANTS
- CAUTION HAZARDOUS STORAGE

EGRESS CALCULATIONS
BLDG. 10 - FIRST FLOOR
EGRESS WIDTH CALCULATION PER FBC TABLE 1004.1.2 AND FBC 1005.3.1

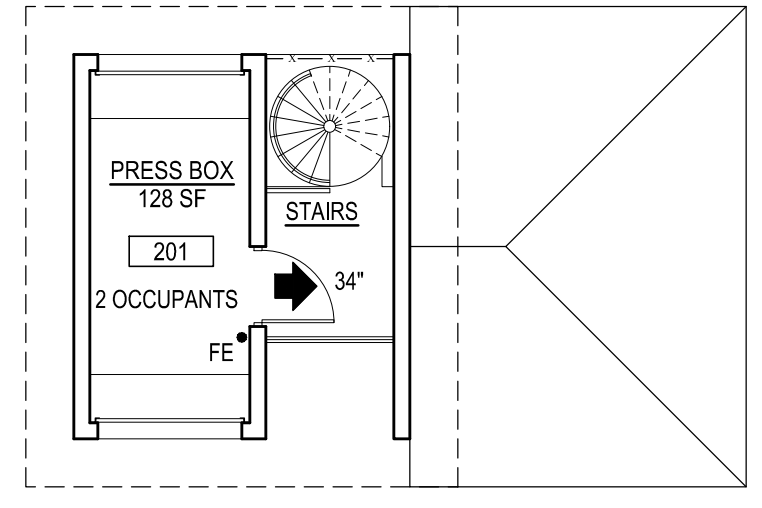
SPACE NO.	SPACE NAME	NET SF AREA	SF PER OCCUPANT	NUMBER OCCUPANTS	REQ'D EGRESS WIDTH (# OCC. X 0.2)
101	TOILET	35	-	-	-
102	TOILET	35	-	-	-
103	LOCKER	336	15	23	5
104	STORAGE	234	-	-	-
105	LOCKER	518	15	35	7
105A	UTILITY(MECH)	17	-	-	-
105B	UTILITY(MECH)	21	-	-	-
106	UTILITY(MECH)	42	-	-	-
107	TOILET	106	-	-	-
108	SHOWER	82	-	-	-
109	LAUNDRY RM	101	100	1	1
110	OFFICE	172	100	2	1
111	BATH	54	-	-	-

EGRESS CALCULATIONS
BLDG. 10 - SECOND FLOOR
EGRESS WIDTH CALCULATION PER FBC TABLE 1004.1.2 AND FBC 1005.3.1

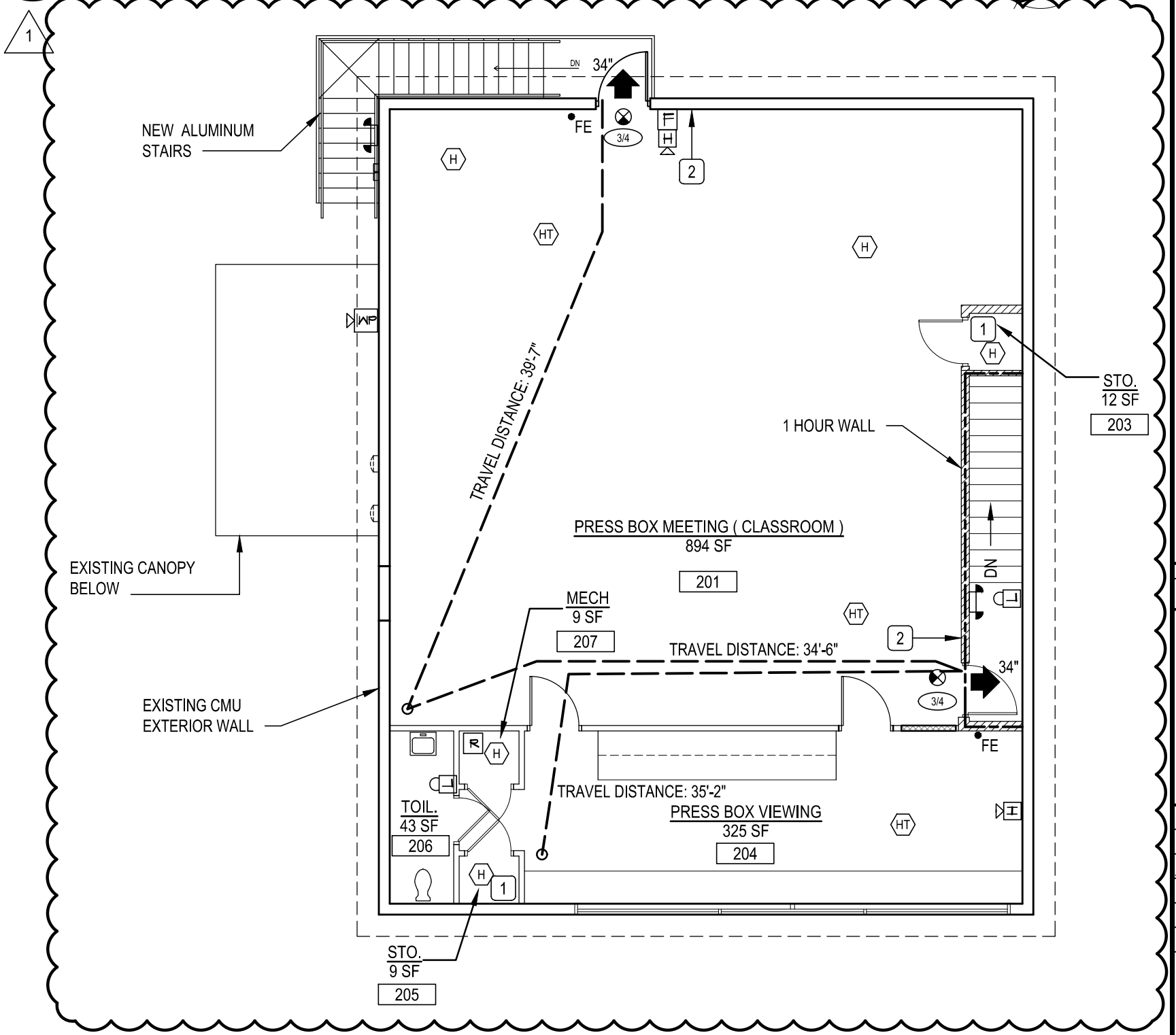
SPACE NO.	SPACE NAME	NET SF AREA	SF PER OCCUPANT	NUMBER OCCUPANTS	REQ'D EGRESS WIDTH (# OCC. X 0.3)
201	MEETING/CLASS ROOM	894	20	45	14
202	UNIFORM STORAGE	464	-	-	-
203	STORAGE	12	-	-	-
204	PRESS BOX VIEWING	325	20	17	5.1
205	STORAGE	9	-	-	-
206	TOILET	43	-	-	-
207	MECHANICAL	9	-	-	-



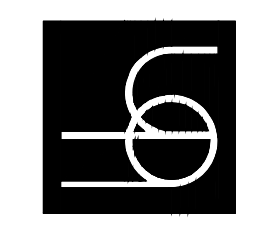
4 BUILDING 11 FIRST FLOOR PLAN
SCALE: 1/8" = 1'-0"



SECOND FLOOR PLAN



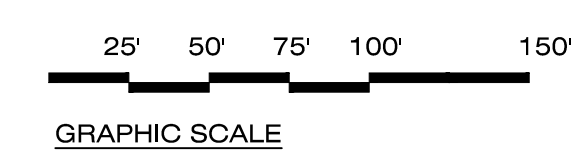
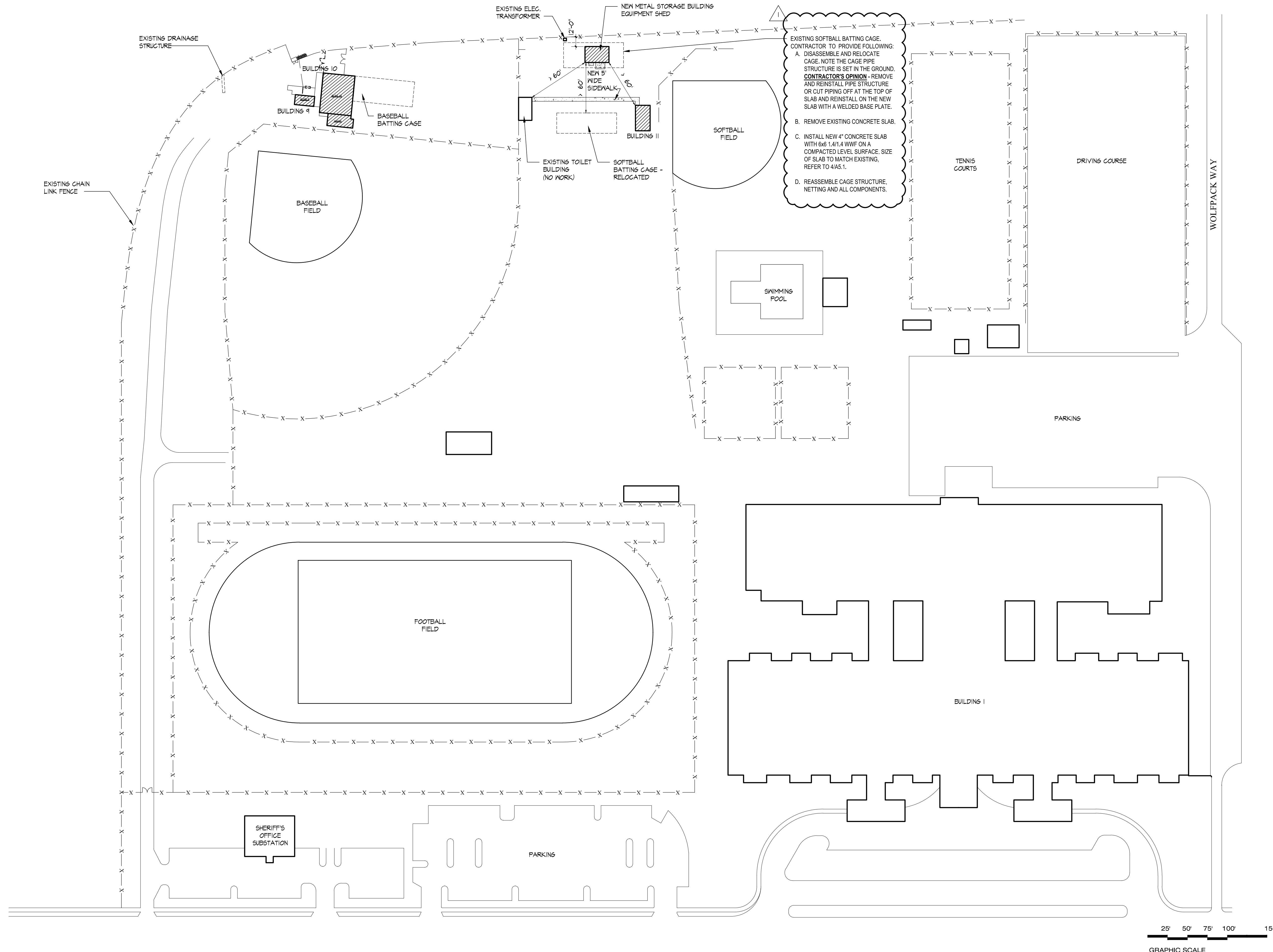
BUILDING 10- SECOND FLOOR / 2,000 GSF LIFE SAFETY PLAN
SCALE: 1/8" = 1'-0"



Architect License No.
Robert McVeigh AR0001549

REVISIONS
PERMIT SET 4-22-2020
ORCE COM. AND ADDENDA 1 & 2 5-13-20

LIFE SAFETY PLANS AND CODE SUMMARY
DATE APR. 22, 2020
D.B. P.R.L.
C.B. R.E.M.
JOB NO. 15054

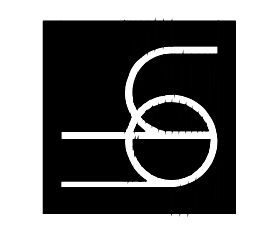


POWERS AVENUE

WOLFPACK WAY

SITE PLAN

SCALE: 1" = 60'-0"



Architect	Robert McVeigh	License No.	AR0011549
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SITE PLAN

DATE	APR. 22, 2020
D.B.	P.R.L.
C.B.	R.E.M.
JOB NO.	15054

PERMIT SET

A1.1

GENERAL NOTES:

1. THE CONTRACTOR SHALL VISIT THE SITE AND REVIEW THE DRAWINGS PRIOR TO BIDDING TO ASCERTAIN THE EXISTING CONDITIONS AND THE SCOPE OF THE WORK.
2. EXISTING DIMENSIONS INDICATED ARE APPROXIMATE. THE CONTRACTOR SHALL FIELD MEASURE ALL DIMENSIONS AND ELEVATIONS FOR THE REQUIRED WORK.
3. PRIOR TO DEMOLITION, THE CONTRACTOR SHALL MEET WITH THE OWNER TO ESTABLISH ANY MATERIALS TO BE SALVAGED BY THE OWNER. THE CONTRACTOR SHALL REMOVE SALVAGED MATERIALS AS CAREFULLY AS POSSIBLE AND PLACE ON SITE AS DIRECTED BY THE OWNER. THE CONTRACTOR SHALL REMOVE FROM THE SITE AND DISPOSE OF THE REMAINING MATERIALS OF DEMOLITION IN ACCORDANCE WITH LOCAL ORDINANCES.
4. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY CONDITIONS IN EXISTING MATERIALS OR STRUCTURE WHICH MAY ADVERSELY AFFECT THE EXECUTION, PERFORMANCE OR QUALITY OF THE FINAL RESULT.
5. THE CONTRACTOR SHALL PROVIDE BARRICADES AS NECESSARY TO RESTRICT AND PROTECT THE PUBLIC FROM THE AREAS OF THE WORK. THE CONTRACTOR SHALL PROTECT FROM DAMAGE ALL EXISTING IMPROVEMENTS, EQUIPMENT AND UTILITIES AT OR NEAR THE SITE OF THE WORK. THE CONTRACTOR WILL REPAIR OR RESTORE ANY DAMAGE TO SUCH FACILITIES RESULTING FROM THE PERFORMANCE OF THE WORK.
6. THE CONTRACTOR SHALL PROVIDE SECURE STORAGE FOR ALL MATERIALS AND EQUIPMENT INVOLVED IN THIS PROJECT. THE SECURE AREA SHALL PROTECT MATERIALS AND EQUIPMENT FROM THEFT, VANDALISM AND CAUSING PERSONAL INJURY. NO EQUIPMENT OR MATERIALS WILL BE LEFT UNATTENDED OR UNSECURED.
7. **INTERRUPTION OF SERVICES:** THE CONTRACTOR SHALL NOTIFY THE SCHOOL PRINCIPAL PRIOR TO THE INTERRUPTION OF ANY SYSTEMS OF THE SCHOOL INCLUDING ELECTRICAL, FIRE ALARM, SECURITY AND COMPUTER NETWORKS. NOTIFY DCPS CODE ENFORCEMENT OF ANY SHUT DOWN INVOLVING SHUT DOWN OF THE FIRE ALARM SYSTEM FOR MORE THAN 4 HOURS. A MINIMUM OF 48 HOURS NOTICE PRIOR TO A SCHEDULED INTERRUPTION AND SHALL ONLY BE DONE AFTER SCHOOL HOURS. ANY INTERRUPTION OF SERVICE WHICH TAKES THE FIRE ALARM SYSTEM OUT OF OPERATION FOR MORE THAN 4 HOURS IN A 24-HOUR PERIOD WHEN THE BUILDING IS OCCUPIED BY ANYONE. CONTRACTOR SHALL NOTIFY DCPS CODE ENFORCEMENT AND A SPECIALLY TRAINED FIRE WATCH SHALL BE PROVIDED UNTIL THE ALARM SYSTEM HAS BEEN RETURNED TO SERVICE.
8. THE CONTRACTOR IS RESPONSIBLE FOR DAMAGE TO THE EXISTING BUILDING OR ITS CONTENTS AS A RESULT OF THE CONSTRUCTION AND SHALL MAKE GOOD ANY DAMAGE. THE CONTRACTOR SHALL MAKE A SURVEY OF THE INTERIOR CONDITIONS PRIOR TO THE START OF WORK.
9. **CLEANING:** THE CONSTRUCTION AREA SHALL BE CLEANED DAILY. MISCELLANEOUS MATERIALS SHALL BE REMOVED AND AREAS VACUUMED AT THE END OF EACH WORK SHIFT.
10. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE SEQUENCE OF CONSTRUCTION TO MAINTAIN PROJECT SAFETY.
11. THE CONTRACTOR SHALL MAINTAIN ACCURATE RECORDS OF ANY MODIFICATIONS TO SYSTEMS AND SHALL UPON COMPLETION, DELIVER MECHANICAL, PLUMBING AND ELECTRICAL "AS-BUILT" DRAWINGS TO THE ARCHITECT, INDICATING ANY SUCH CHANGES.

PROJECT SCOPE / DEMOLITION NOTES

BUILDING 9: BASEBALL CONCESSION BUILDING

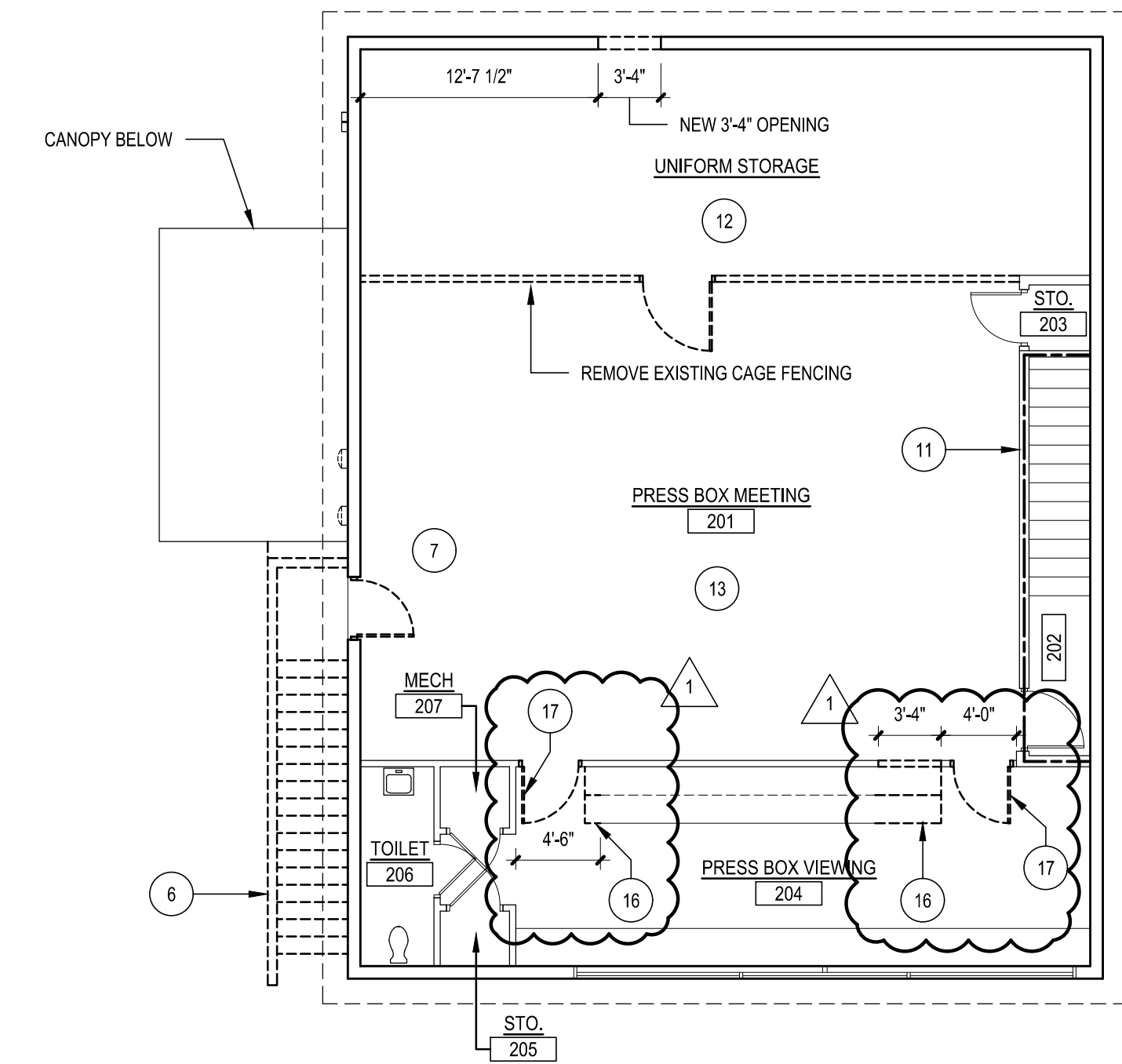
- 1 ADD TO EXISTING INTERIOR WALL CONNECTIONS AT ROLL-UP DOOR COUNTER. DOOR UNITS TO BOTH SERVING WINDOWS; REFER TO STRUCTURAL
- 2 EXISTING WALL MOUNTED EXHAUST FAN REMOVED- REFER TO MECHANICAL AND ELECTRICAL FOR CONNECTIONS.
- 3 ABOVE GROUND LP GAS TANK; REMOVE TANK COMPLETE, INCLUDING GAS LINE TO BUILDING, REFER TO MECHANICAL DRAWINGS
- 4 POST NEW SIGNAGE - REFER TO SHEET A2.2
- 5 PROVIDE FIRE ALARM SYSTEM - REFER TO ELECTRICAL

BUILDING 10: BASEBALL PRESS BOX / LOCKERS

- 6 EXISTING EXTERIOR WOOD STAIR WITH CHAIN LINK COVER REMOVED COMPLETE, INCLUDING 4x4 WOOD POSTS AND CONNECTIONS TO BUILDING. REFER TO SHEET A2.2 FOR NEW STAIR CONFIGURATION
- 7 EXISTING EXTERIOR DOOR AND FRAME TO BE REMOVED. INFILL WITH NEW 8" CMU PROVIDE PAINT FINISH EACH SIDE, REFER TO STRUCTURAL DRAWINGS
- 8 REPAIR FOR LINTEL IN CMU WALL AT DUGOUT DOOR - REFER TO STRUCTURAL
- 9 NOT USED
- 10 REPLACE EXTERIOR DOORS (x3) WITH NEW 45m "C" LABEL - REFER TO SHEET A2.2
- 11 PROVIDE ONE (1) HOUR RATED EXIT ROUTE ENCLOSURE AT EXISTING INTERIOR STAIRS - REFER TO SHEET A2.2
- 12 REMOVE EXISTING WOOD FRAMING AND FENCING AT UNIFORM STORAGE, SECOND FLOOR.
- 13 PROVIDE FIRE ALARM SYSTEM - REFER TO ELECTRICAL
- 14 EXISTING LAWN EQUIPMENT AND COMBUSTIBLE ITEMS RELOCATED TO NEW STORAGE BUILDING LOCATED A MINIMUM 60'-0" FROM OTHER STRUCTURES. REFER TO SHEET A.1
- 15 REMOVE EXISTING CONC. SLAB AS PART OF NEW DRAINAGE AND SIDEWALK WORK; REFER TO A2.2
- 16 REMOVE SECTION OF BLEACHER SEATING FOR NEW DOOR. SUPPORT AT END AND FINISH
- 17 REMOVE EXISTING DOOR AND FRAME. STORE HARDWARE FOR REUSE.

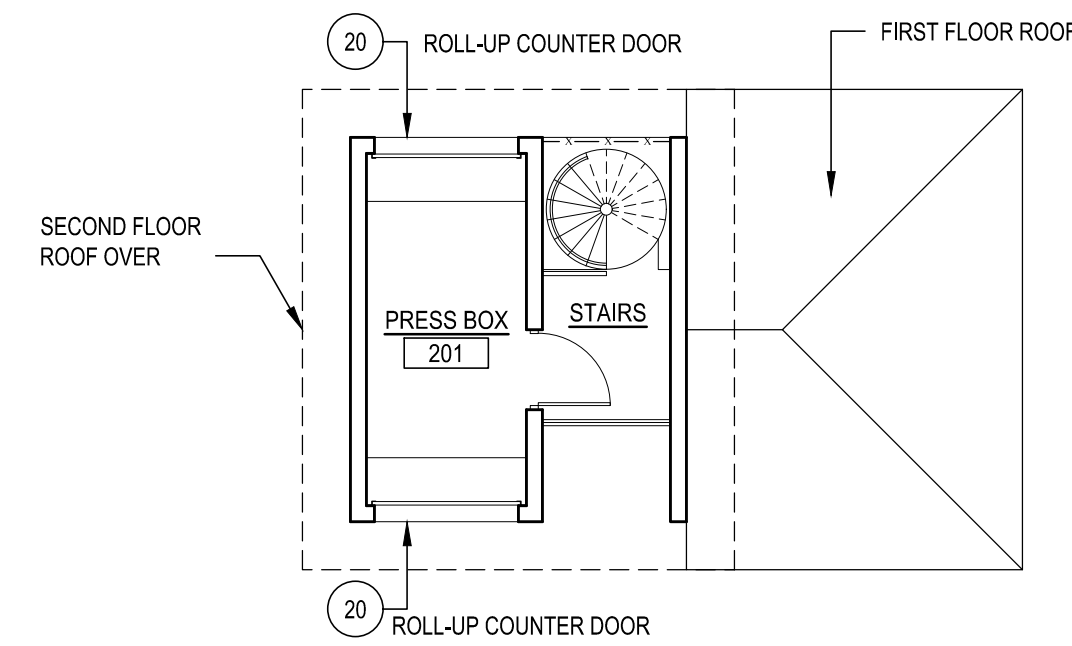
BUILDING 11: SOFTBALL CONCESSION / PRESS BOX

- 18 INSTALL NEW GYPSUM BOARD CEILING - REFER TO A2.2
- 19 REPLACE STORAGE ROOM DOORS - REFER TO A2.2
- 20 PROVIDE SEALS AND FLASHING AT ROLL-UP DOORS - REFER TO A2.2
- 21 REPAIR/REPLACE DAMAGED MISSING SECTION OF SOFFIT - REFER TO A2.2



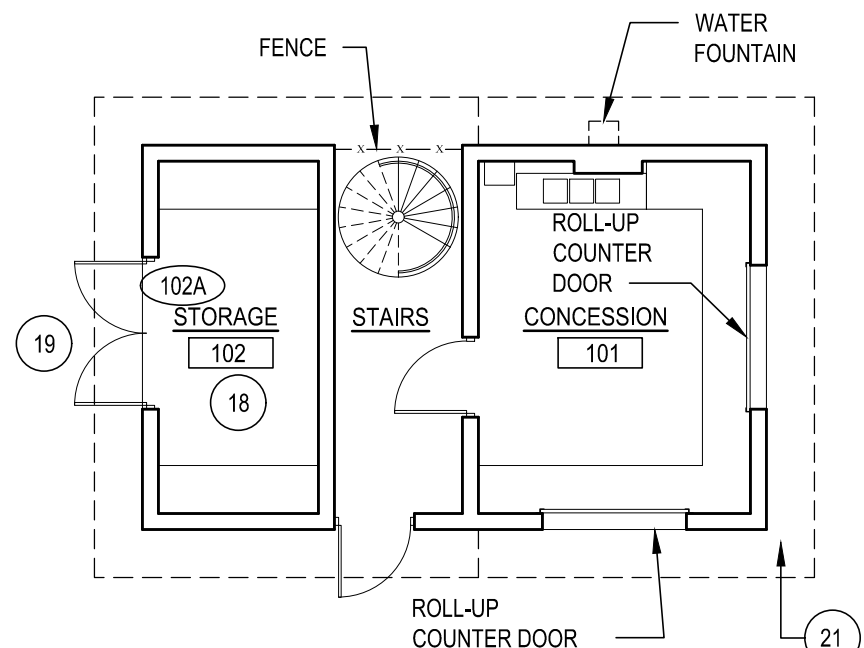
BUILDING 10 SECOND FLOOR EXISTING PLAN

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



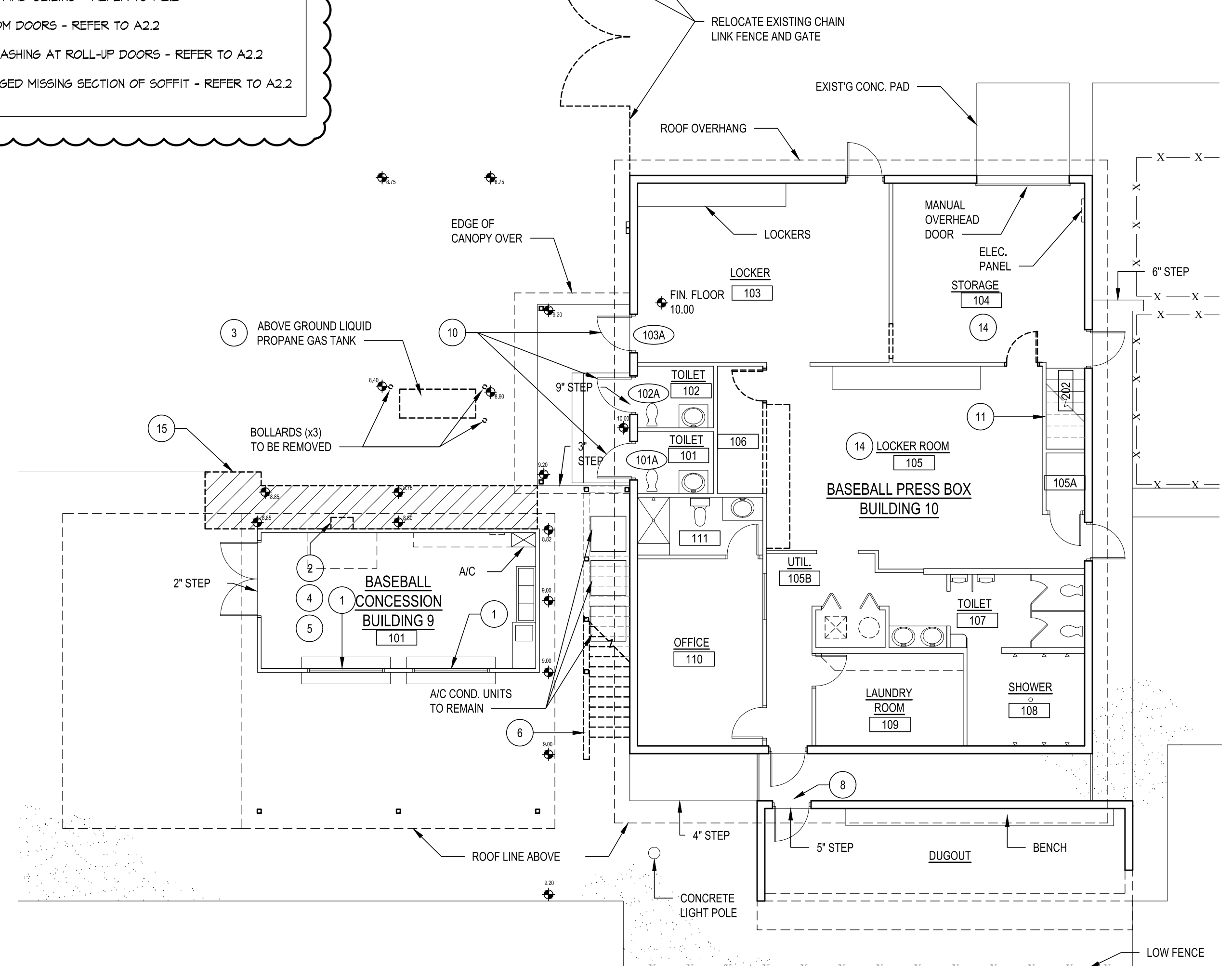
BUILDING 11 SECOND FLOOR EXISTING PLAN

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



BUILDING 11 FIRST FLOOR EXISTING PLAN

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



BUILDINGS 9 & 10 FIRST FLOOR EXISTING/ DEMOLITION PLAN

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



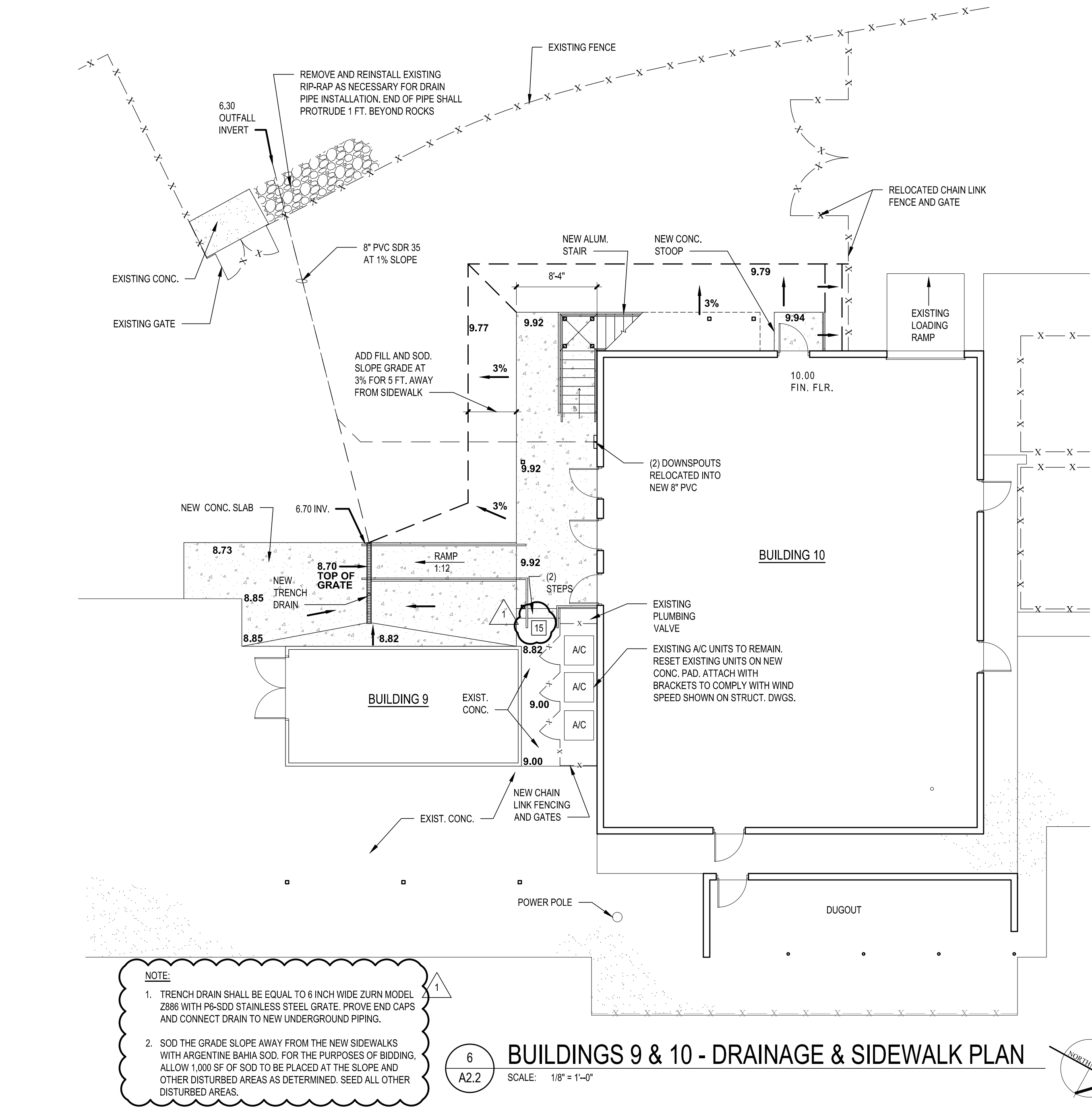
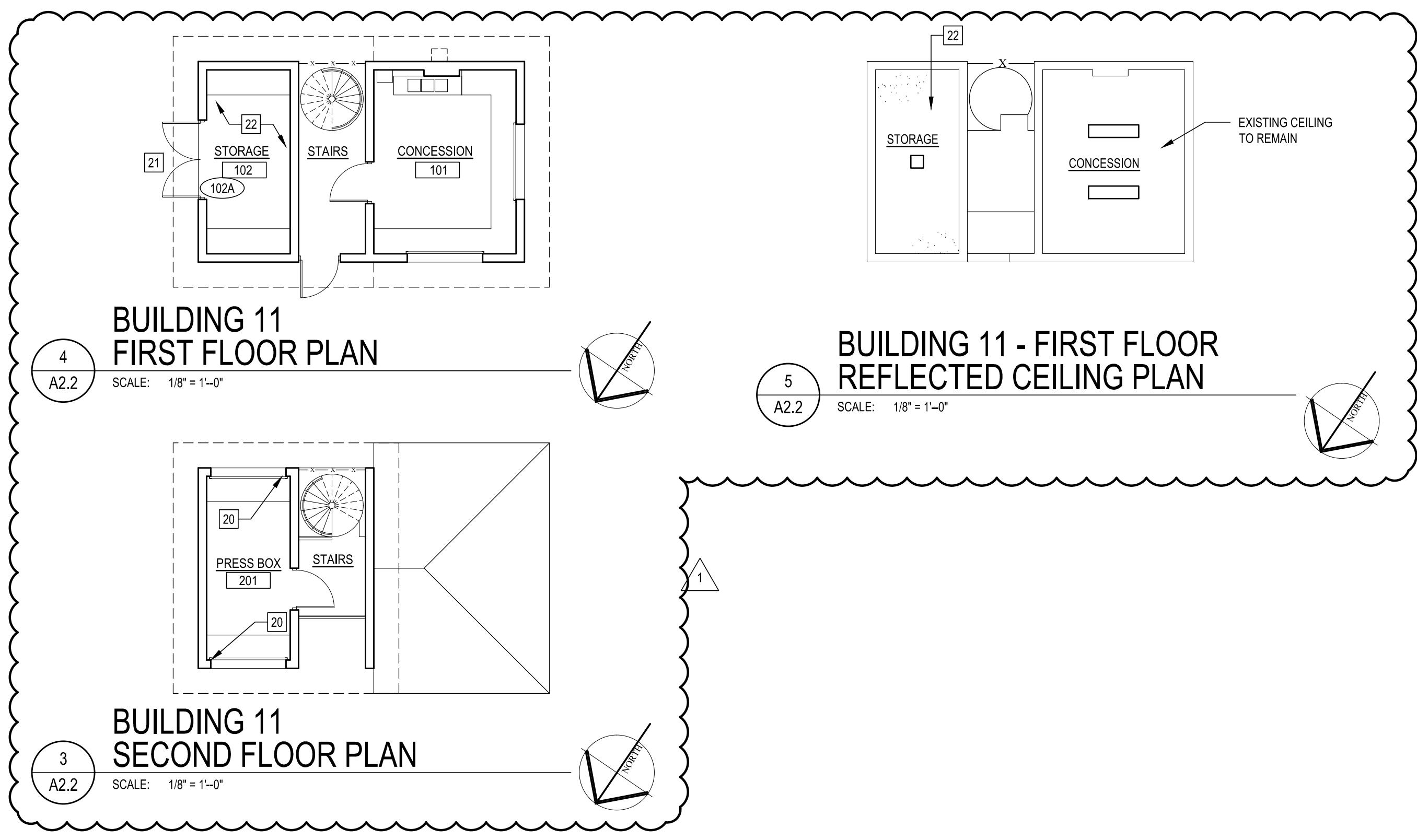
REVISIONS	DATE
PERMIT SET	4-22-2020
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ADDENDA 1 & 2	5-13-20

DEMOLITION FLOOR PLANS -BLDGS 9, 10, & 11-

DATE	APR. 22, 2020
D.B.	P.R.L.
C.B.	R.E.M.
JOB NO.	15054

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A2.1



CONSTRUCTION KEY NOTES

BUILDING 10: BASEBALL PRESS BOX / LOCKERS

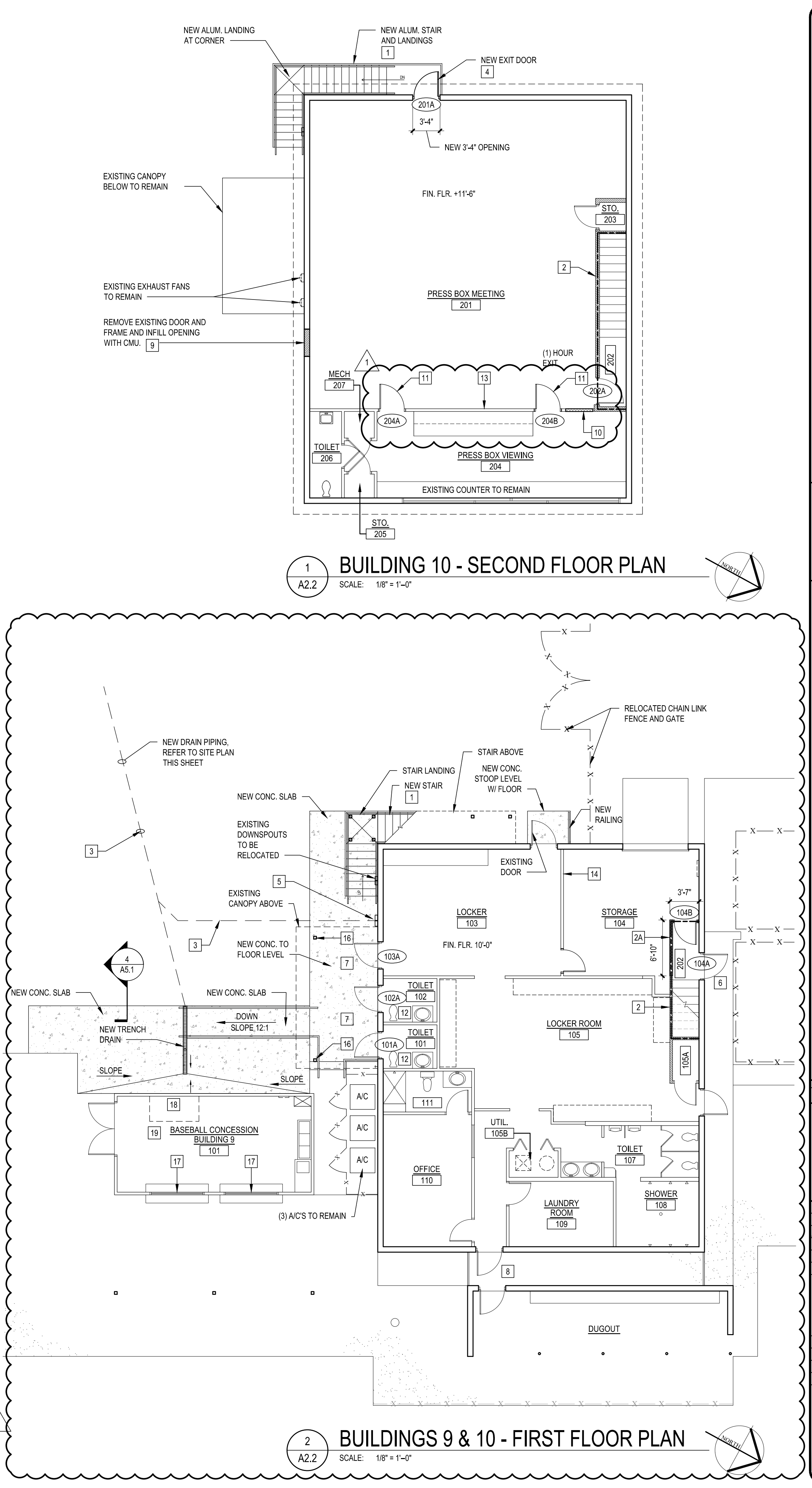
- NEW PRE-FABRICATED METAL EXIT STAIRS - REFER TO 4/A10.1 AND STRUCTURAL DRAWINGS.
- ONE (1) HOUR EXIT ROUTE FROM SECOND FLOOR TO EXTERIOR:
 - REMOVE AND REINSTALL LOCKERS AS REQUIRED.
 - REMOVE EXISTING GYPSUM BOARD FINISH FROM PARTITION WALLS, CEILING IN STAIR WELL, AND CEILING BELOW STAIRS. RETAIN FRAMING.
 - REMOVE EXISTING FLOOR FINISH (CARPET).
 - EXTEND EXIT ROUTE NOM. 6'-10" INTO STORAGE ROOM WITH 3 5/8" METAL STUDS AT 16" O.C. IN ORDER TO ENCLOSE EXIT DOOR.
 - REMOVE GYPSUM BOARD FINISH FROM CEILING WITHIN THE EXTENDED SECTION IN THE STORAGE ROOM.
 - ADD NEW 5/8" TYPE 'X' GYPSUM BOARD FINISH TO ALL SURFACES WITH 1" TYPE 'S' DRYWALL SCREWS AT 8" O.C.
 - APPLY TEXTURE FINISH AND PAINT WALLS TO MATCH ADJACENT ROOM SURFACES.
 - INSTALL (1) HOUR GYPSUM BOARD CEILING IN STAIR 202 AND STORAGE 102A. CEILING SHALL BE CONSTRUCTED OF 1" TYPE 'X' GYPSUM BOARD, 2 1/2" C-H STUDS, 5/8" TYPE 'X' GYPSUM BOARD (SHAFT WALL SYSTEM), G.A. FILE NO. WP6850 U.L. DESIGN U41T. PROVIDE PAINT FINISH.
- NEW (1) HOUR WALL WITH 5/8" TYPE 'X' GYPSUM BOARD FINISH WITH 1" TYPE 'S' DRYWALL SCREWS AT 8" O.C. ASSEMBLY UL U814.
- 8" PVC DRAIN PIPING. REFER TO DRAINAGE AND SIDEWALK PLAN, A2.2.
- NEW INSULATED METAL DOOR AND HOLLOW METAL FRAME TO EXIT DOOR AT EXTERIOR STAIR. REFER TO STRUCTURAL.
- RELOCATED POSITION OF EXISTING DOWNSPOUTS. STRAP TO EXTERIOR WALL AT 48" O.C. MAINTAIN MIN. 1" CLEARANCE TO WALL SURFACE. ROUTE DOWNSPOUTS INTO 8" PVC. REFER TO DRAINAGE AND SIDEWALK PLAN, A2.2.
- REPLACE EXISTING DOOR LOCKSET WITH EXIT DEVICE.
- REPLACE EXISTING EXTERIOR DOORS (101A (TOILET), 102A (TOILET), AND 103A (LOCKER)). NEW 3'-0" x 6'-8" INSULATED METAL DOORS. DOORS SHALL BE 45 MIN. FIRE RATED, REUSE EXISTING FRAMES. GROUT FRAMES SOLID AND INSTALL MISSING FRAME FASTENERS.
- REFER TO STRUCTURAL FOR LINTEL REPAIR AT DUGOUT DOOR.
- EXISTING DOOR AND FRAME TO BE REMOVED. INFILL OPENINGS WITH NEW 8" CMU PROVIDE PAINT FINISH EACH SIDE. REFER TO STRUCT. DWGS.
- NEW WALL WITH 5/8" TYPE 'X' GYPSUM BOARD FINISH WITH 1" TYPE 'S' DRYWALL SCREWS AT 8" O.C. PAINT FINISH TO MATCH ADJACENT CONDITIONS.
- INSTALL NEW DOOR WITH EXISTING HARDWARE. REFER TO DOOR SCHEDULE ON SHT. A10.1.
- REPAIR THE CRACKED FLOOR OF THE TOILET ROOMS 101 AND 102, BY REPLACING (2) ROWS OF TILES LOCATED AT THE DOOR THRESHOLD. NEW TILES SHALL EXTEND THE FULL WIDTH OF THE ROOM. INSTALL LEVELING COMPOUND AS NECESSARY. REMOVE AND REINSTALL DOOR THRESHOLD. NEW TILES SHALL BE 8"x8" PORCELAIN WITH A NON-SLIP FINISH. A CONTRASTING GRAY COLOR WILL BE SELECTED.
- REPAIR HOLES IN THE GYPSUM BOARD WALL FINISH AND REPAINT ENTIRE WALL.
- PAINT WALL.
- COVER THE EXPOSED PVC REFRIGERANT LINE SLEEVE EMBEDDED IN THE EXISTING SIDEWALK WITH 1'-0" WIDE ALUMINUM DIAMOND PLATE. (APPROX. 5'-0" LONG) REMOVE CONCRETE SO THAT THE COVER IS LEVEL WITH THE EXISTING SLAB. ATTACHE PLATE WITH STAINLESS COUNTERSUNK SCREWS AT 12" O.C.
- COAT THE BASE OF THE TWO POSTS OF THE EXISTING CANOPY WITH AN ASPHALTIC COMPOUND TO PROTECT THE ALUMINUM FROM THE NEW CONCRETE.

BUILDING 9: BASEBALL CONCESSION BUILDING

- REFER TO STRUCTURAL FOR WORK TO INTERIOR WALL CONNECTIONS AT ROLL-UP COUNTER DOOR UNITS TO BOTH SERVING WINDOWS.
- PATCH AND CLOSE OPENING IN EXTERIOR WALL WHERE EXHAUST FAN REMOVED. USE 2x4 WOOD BLOCKING WITH 3 1/2" INSULATION. INTERIOR FINISH WITH GYPSUM BOARD PATCH (THICKNESS TO MATCH EXISTING). EXTERIOR FINISH WITH 1/2" PLYWOOD OR OSB SHEATHING, FELT OR HOUSE WRAP MOISTURE BARRIER, AND CEMENTICIOUS LAP SIDING TO MATCH EXISTING. PAINT INTERIOR PATCHED AREA. PAINT EXTERIOR SOUTH WALL.
- INSTALL NEW SIGNAGE. REFER TO DETAIL T/A5.1.

BUILDING 11: SOFTBALL CONCESSION / PRESS BOX

- PROVIDE NEW SILL FLASHING AT ROLL-UP DOORS TO PRESS BOX OBSERVATION WINDOWS - REFER TO SHEET A5.1.
- REPLACE DOORS WITH NEW PAIR 3'-0" x 7'-0" HOLLOW METAL DOORS. DOORS TO INCLUDE 24"x24" LOUVERS ON EACH SIDE. REMOVE AND REINSTALL EXISTING HARDWARE. PROVIDE NEW WEATHERSTRIPPING, DRIP CAP, AND DOOR SWEEP - REFER TO SHEET A10.1. EXISTING TO REMAIN.
- INSTALL WITH NEW 5/8" US6 SHEETROCK BRAND MOLD TOUGH AR FIRECODE 'X' PANELS OR EQUAL. PRIME AND PAINT. REMOVE AND REINSTALL CEILING MOUNTED FIXTURES AS NECESSARY.



BHIDE & HALL ARCHITECTS, P.A.
 1329 KINGSLEY AVENUE, SUITE C ORANGE PARK, FLORIDA 32073
 PH: (904) 264-1919 LIC. NO. AAC000569

SAFETY DEFICIENCIES AT BASEBALL AND SOFTBALL FIELDHOUSES AT WOLFSON HIGH SCHOOL NO. 224
 7000 POWERS AVENUE JACKSONVILLE, FLORIDA 32217

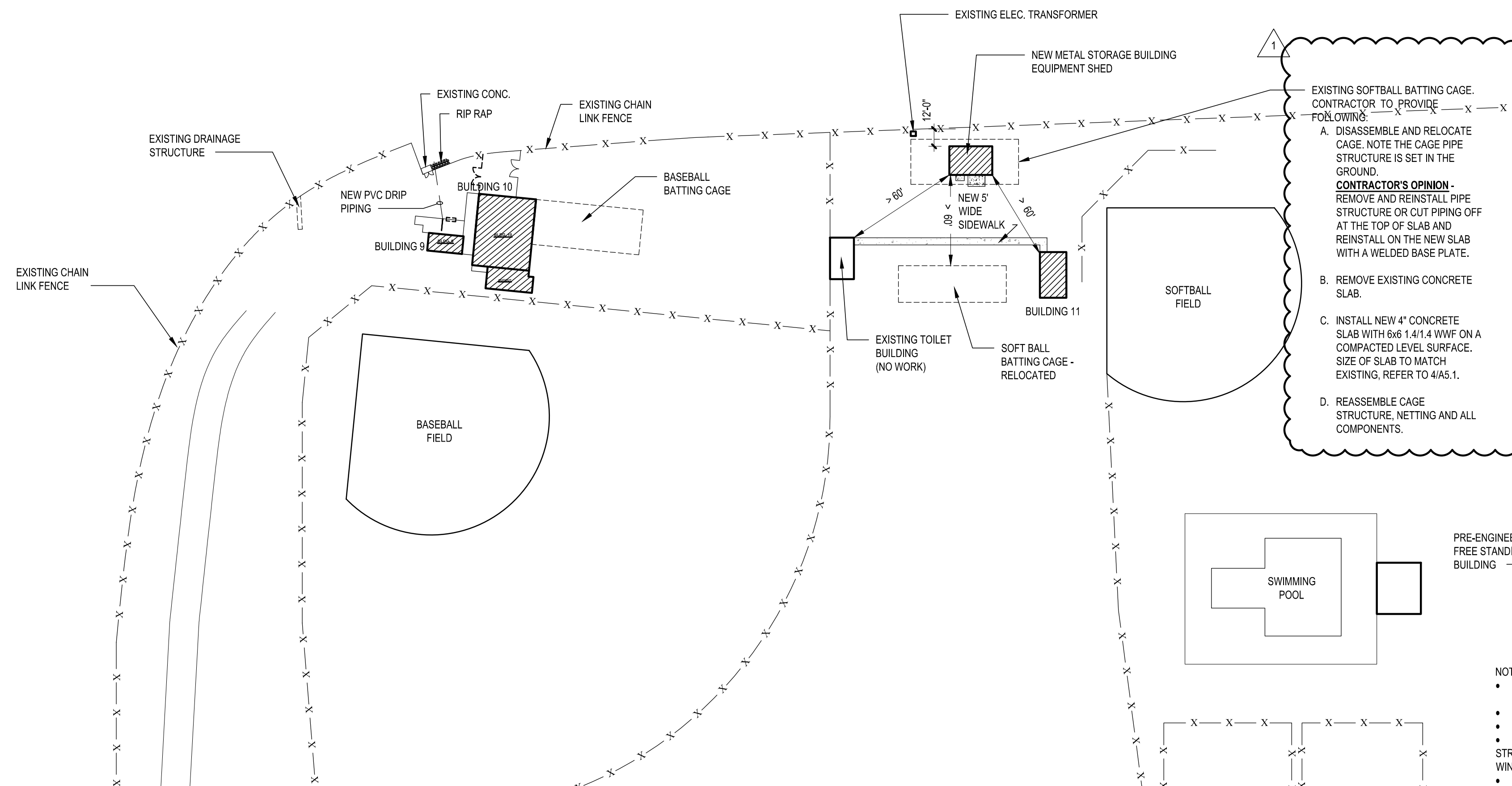
Architect: Robert McVeigh License No: AR0011549

REVISIONS	DATE
PERMIT SET	4-22-2020
ADJ. COM. AND	
ADDENDA 1 & 2	5-13-20

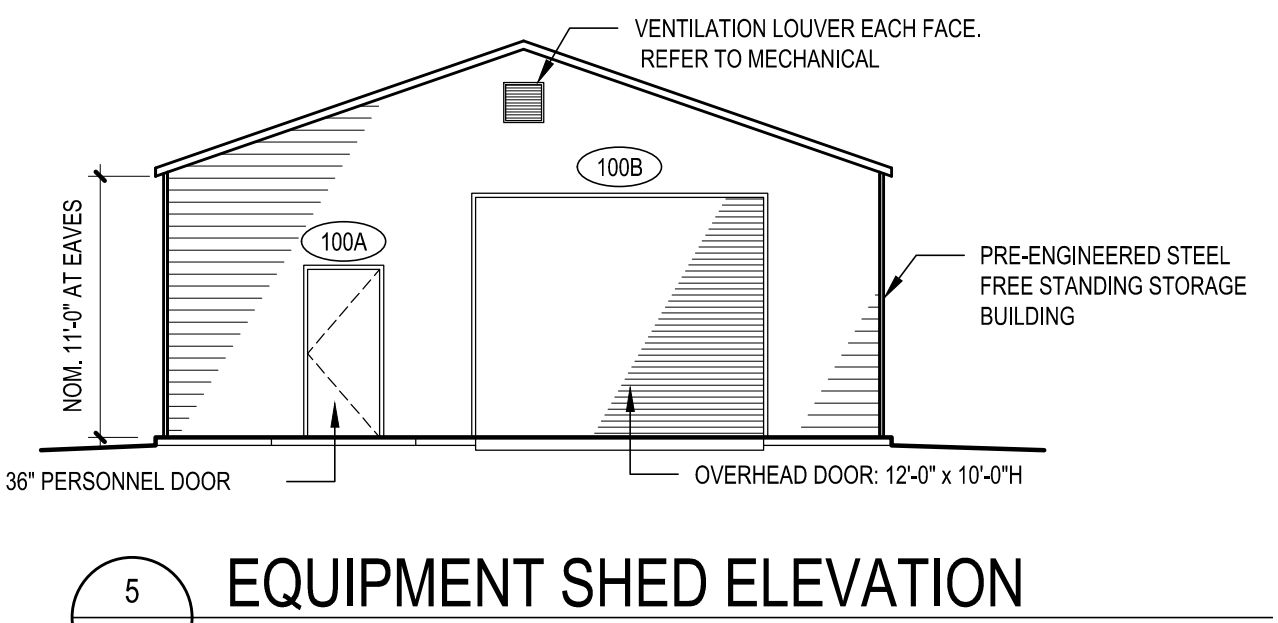
PROPOSED FLOOR PLANS - BLDGS 9, 10, & 11-

DATE	APR. 22, 2020
D.B.	P.R.L.
C.B.	R.E.M.
JOB NO.	15054

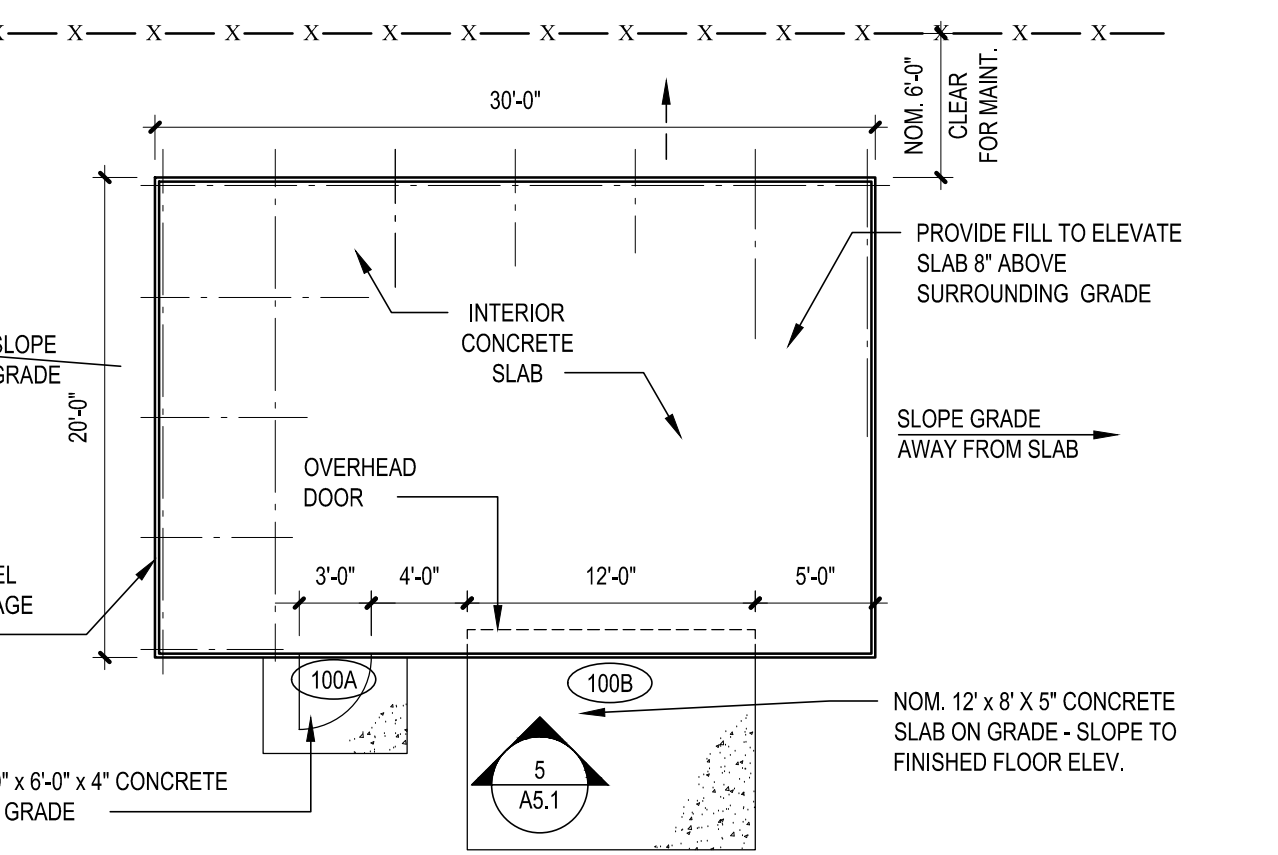
PERMIT SET



8 NEW EQUIPMENT SHED SITE PLAN
 SCALE: 1" = 60'-0"



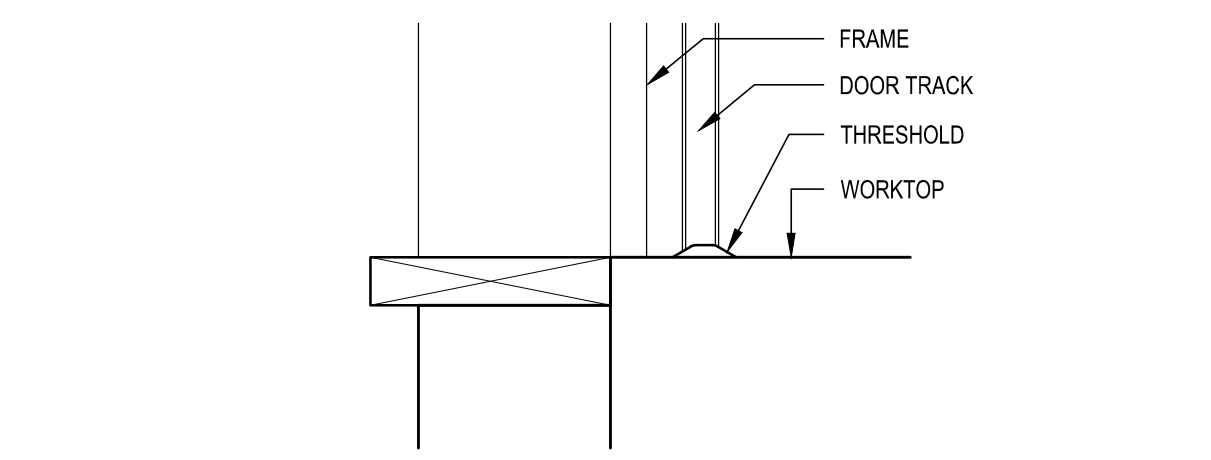
5 EQUIPMENT SHED ELEVATION
 SCALE: 1/8" = 1'-0"



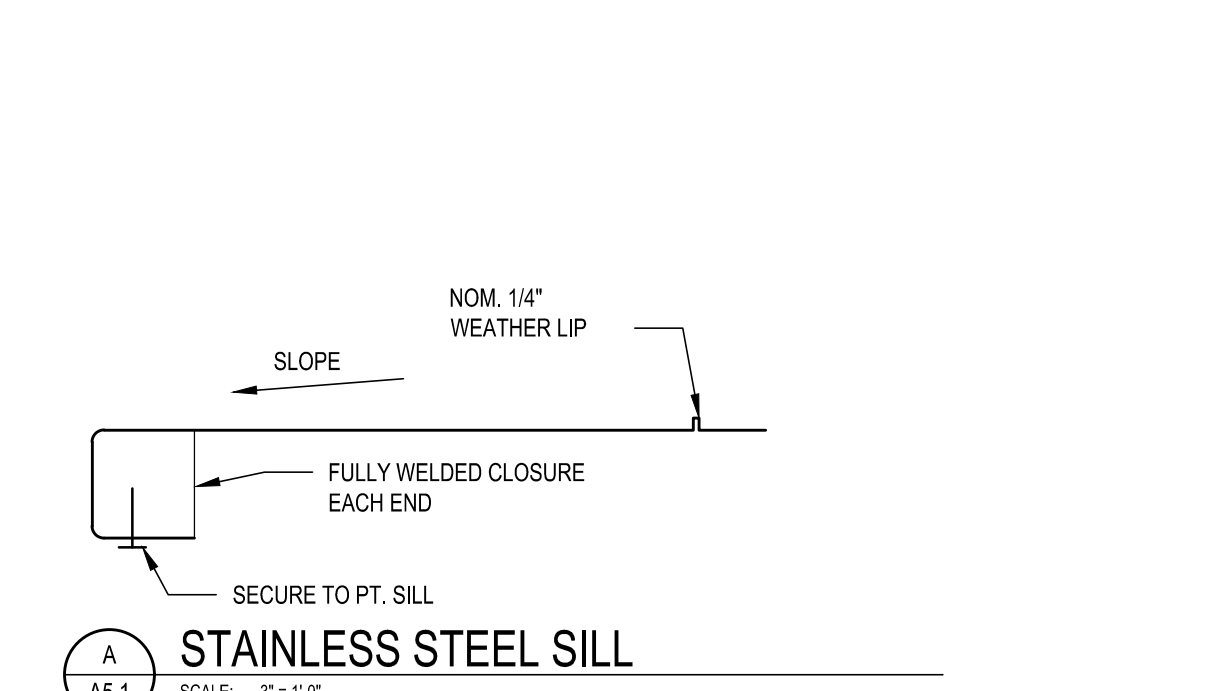
NOTES:

- CONSTRUCTION DOCUMENTS FOR NEW BUILDING, INCLUDING CONCRETE FLOOR SLAB WILL BE PROVIDED UNDER SEPARATE COVER BY BUILDING MANUFACTURER.
- REFER TO ELECTRICAL FOR LIGHTING, POWER, AND FIRE ALARM.
- REFER TO MECHANICAL FOR VENTILATION REQUIREMENTS.
- BUILDING, INCLUDING FOUNDATIONS AND FLOOR SLAB SHALL BE CONSTRUCTED BY BUILDING MANUFACTURER. STRUCTURE SHALL BE DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS OF FLORIDA BUILDING CODE 2017, 6TH EDITION AND WIND LOAD INDICATED ON DRAWING S0.1.
- PROVIDE COMPLETE SHOP DRAWINGS FOR THE PRE-ENGINEERED METAL BUILDING. SHOP DRAWINGS SHALL BE SIGNED AND SEALED BY AN ENGINEER REGISTERED IN THE STATE OF FLORIDA. THE CONTRACTOR SHALL SUBMIT A COPY OF THE ARCHITECT/ENGINEER APPROVED SHOP DRAWINGS TO THE OFFICE OF BUILDING CODE ENFORCEMENT. A COPY OF THE APPROVED SHOP DRAWINGS SHALL ALSO BE AVAILABLE ON SITE FOR INSPECTION.

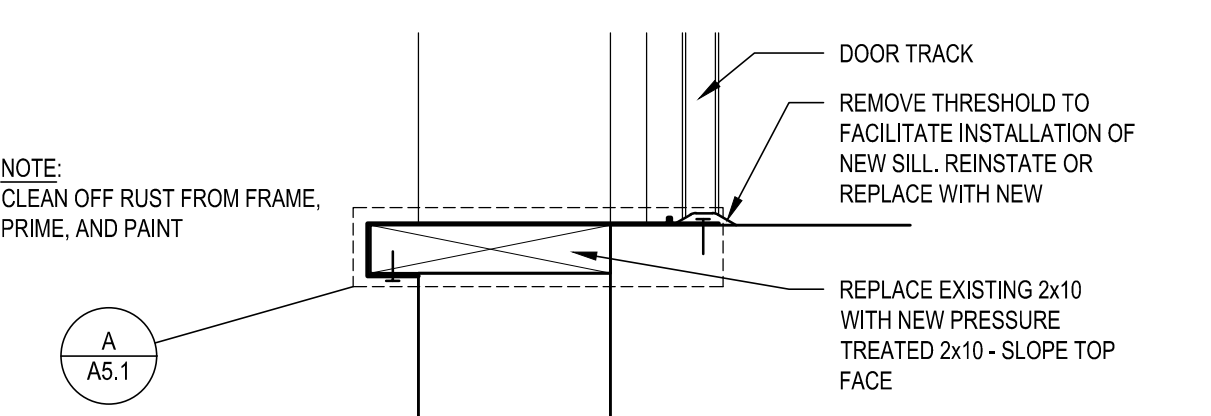
6 EQUIPMENT SHED PLAN
 SCALE: 1/8" = 1'-0"



1 ROLL-UP DOOR SECTION - EXISTING - BLDG 11
 SCALE: 1 1/2" = 1'-0"



A ROLL-UP DOOR SECTION - PROPOSED - BLDG 11
 SCALE: 3/4" = 1'-0"

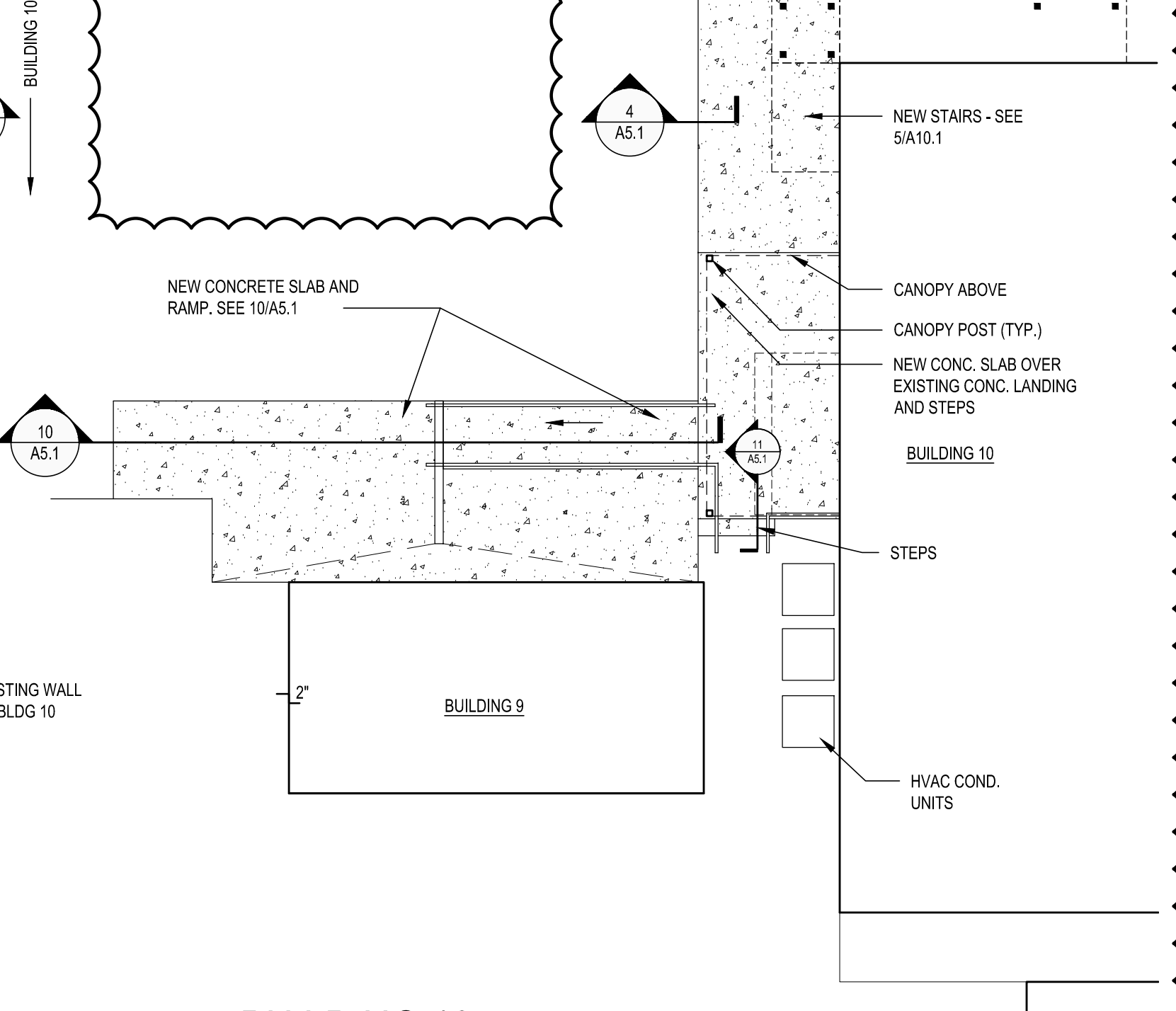


2 ROLL-UP DOOR SECTION - PROPOSED - BLDG 11
 SCALE: 1 1/2" = 1'-0"

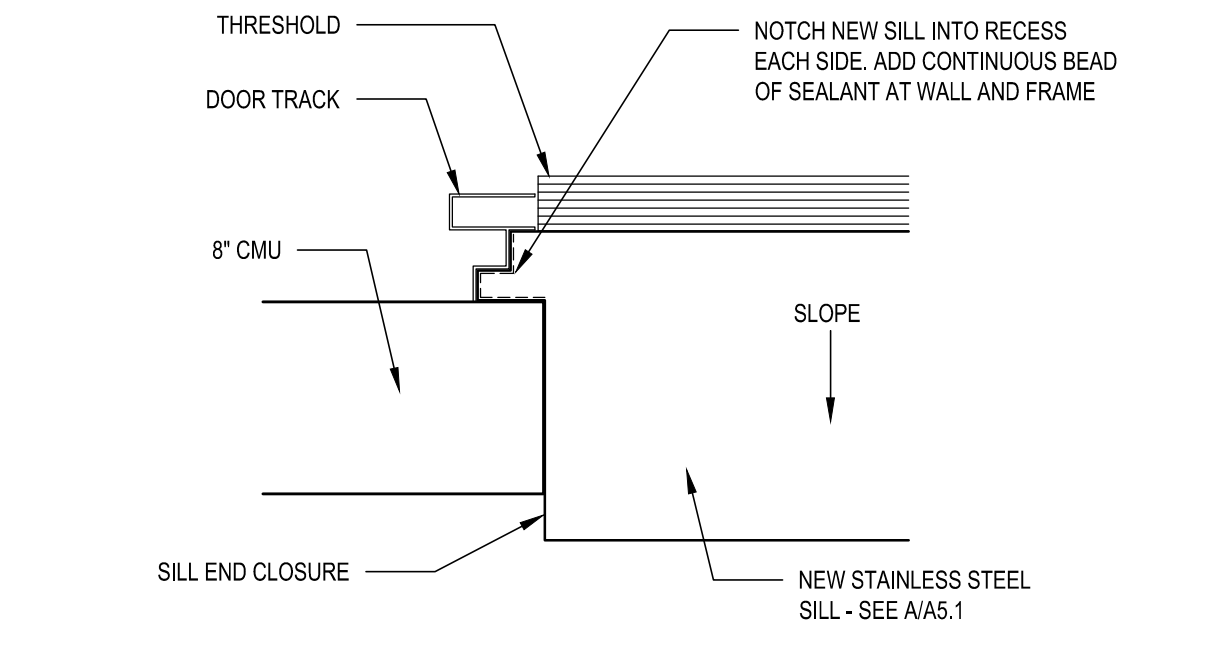
FOOD WARMING ONLY
 NO FRYING OR GRILLING

ES PLASTIC DOUBLE LAYER 'SAND CARVED' ENGRAVED SIGN WITH SQUARED CORNERS, COLORS SELECTED BY OWNER.
 HELVETICA MEDIUM LETTERS, 72 POINT TEXT AND BRAILLE

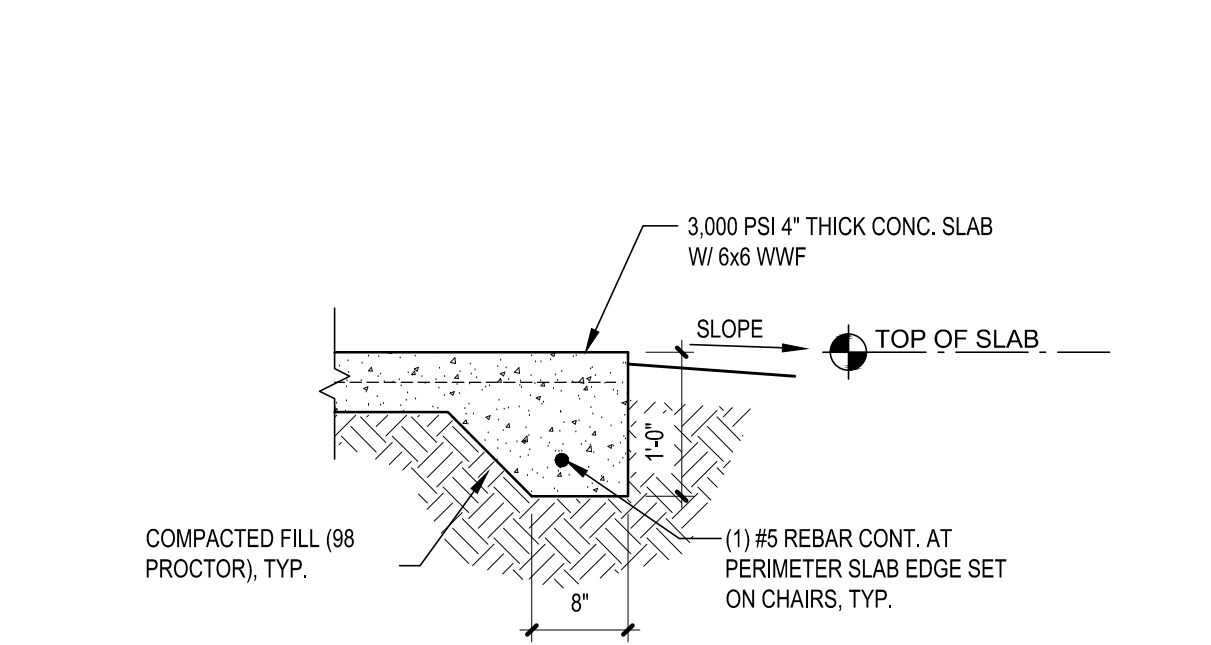
7 NEW INTERIOR SIGN BASEBALL CONCESSION - BLDG 9
 SCALE: 1'-0" = 1'-0"



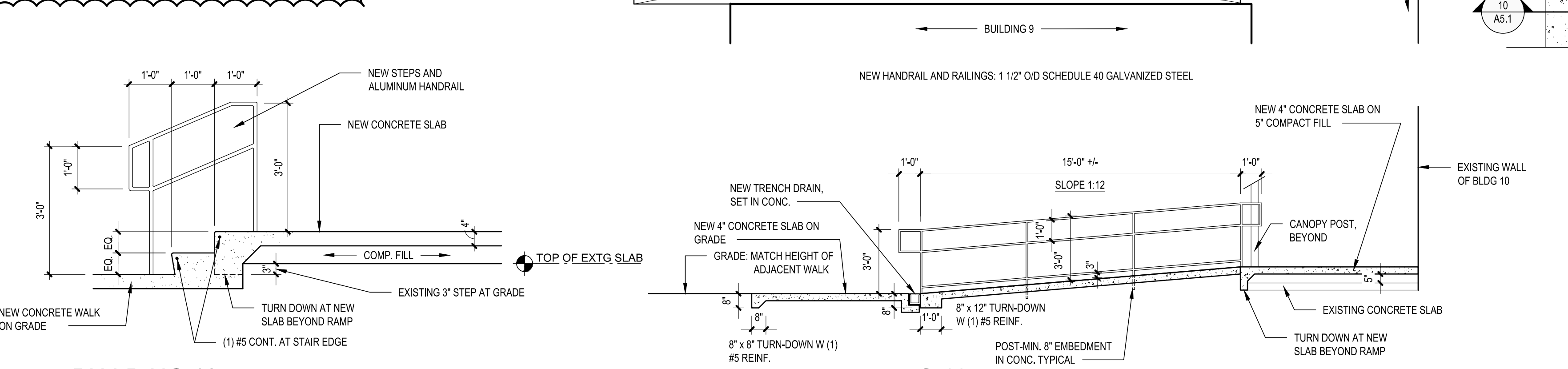
9 BUILDING 10 PARTIAL SITE PLAN
 SCALE: 1/8" = 1'-0"



3 ROLL-UP DOOR SECTION - PROPOSED
 SCALE: 1 1/2" = 1'-0"

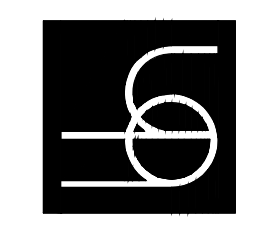


4 TYPICAL SLAB EDGE DETAIL
 SCALE: 3/4" = 1'-0"



11 BUILDING 10 NEW CONCRETE SLAB AND RAMP
 SCALE: 1/2" = 1'-0"

10 BUILDING 10 NEW CONCRETE SLAB AND RAMP SECTION
 SCALE: 1/4" = 1'-0"



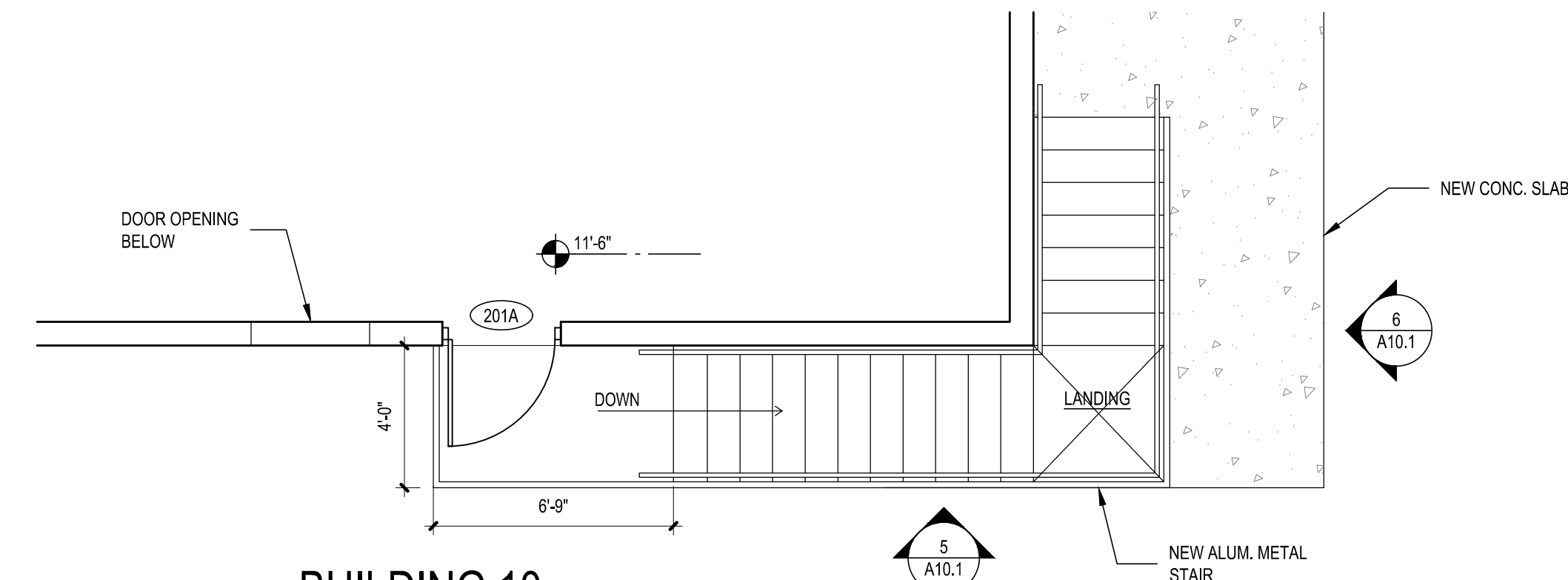
REVISIONS	DATE
PERMIT SET	4-22-2020
OBCE COM. AND	
ADDENDA 1 & 2	5-13-20

DETAILS

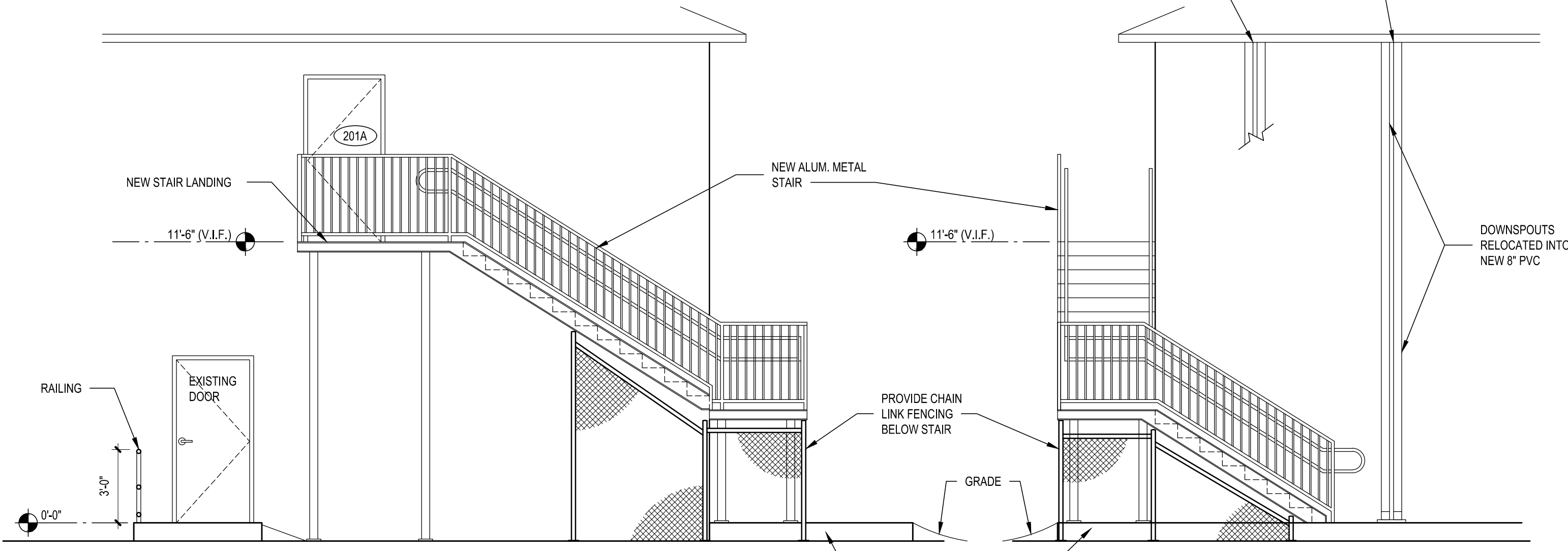
DATE	APR. 22, 2020
D.B.	DMD
C.B.	REM
JOB NO.	15054

PERMIT SET

A5.1



**BUILDING 10
NEW EXTERIOR STAIR - PLAN**
SCALE: 1/4" = 1'-0"
20 RISERS @ 6-7/8"
18 TREADS @ 11"

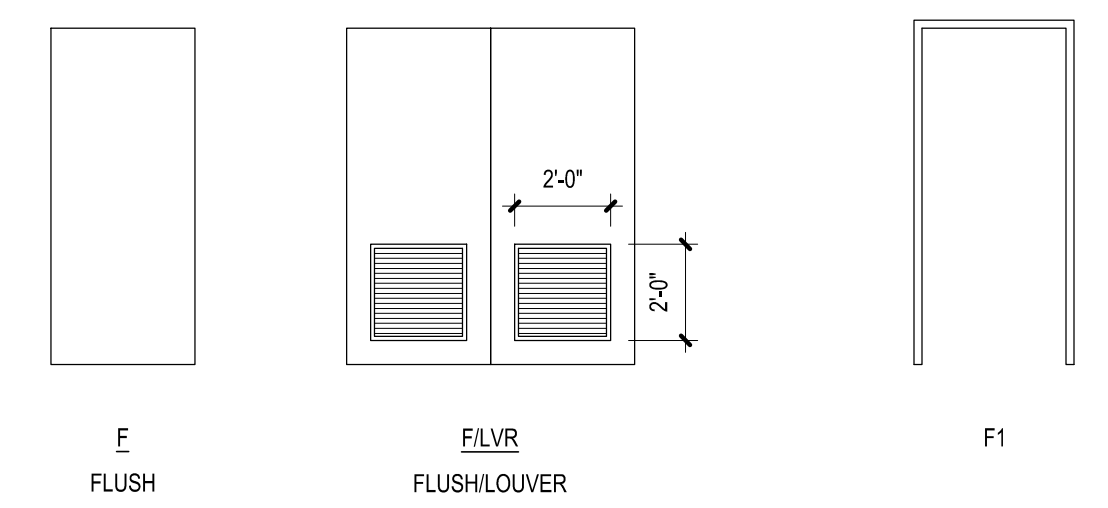


**BUILDING 10
NEW EXTERIOR STAIR**
SCALE: 1/4" = 1'-0"

**BUILDING 10
NEW EXTERIOR STAIR**
SCALE: 1/4" = 1'-0"

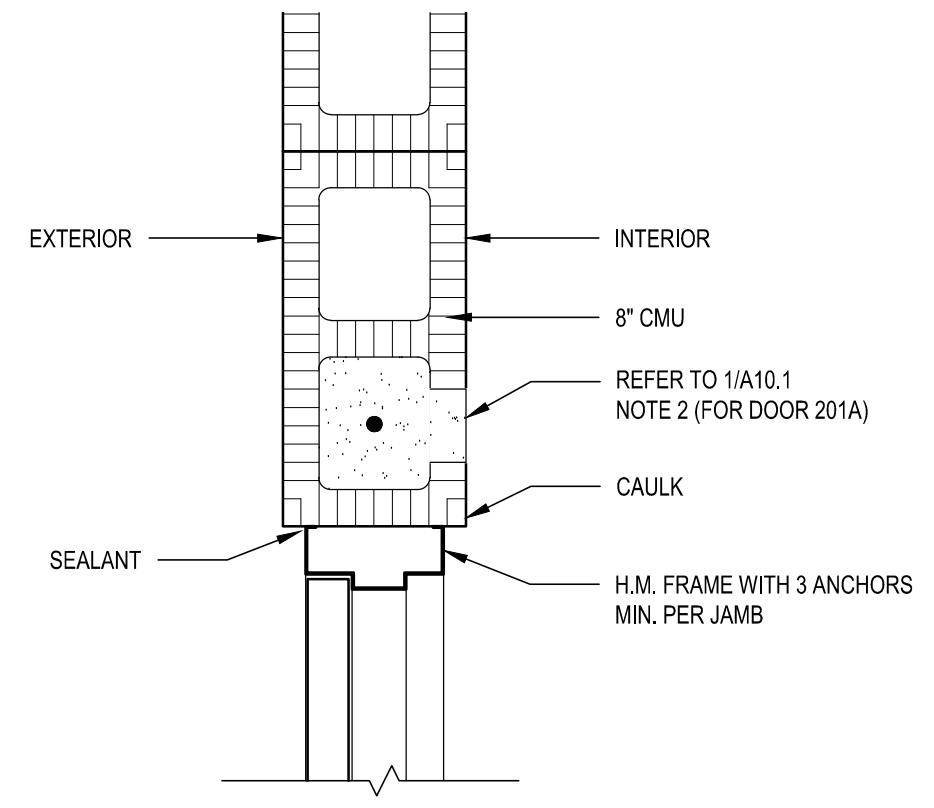
DOOR SCHEDULE																
MARK	DOOR						FRAME			DETAILS			HARDWARE SET	RATING	ROOM NAME	REMARKS
	DOOR OPENING SIZE			TYPE	MATL	FINISH	TYPE	MATL	FINISH	HEAD	JAMB	THOLD				
	W	H	THK													
BUILDING 10																
101A	3'-0"	6'-8"	1 3/4"	F	IM	P	F1	HM	P	-	-	-	HW.01	45M	TOILET	NEW DOOR IN EXISTING FIRE RATED FRAME
102A	3'-0"	6'-8"	1 3/4"	F	IM	P	F1	-	P	-	-	-	HW.01	45M	TOILET	NEW DOOR IN EXISTING FIRE RATED FRAME
103A	3'-0"	6'-8"	1 3/4"	F	IM	P	F1	-	P	-	-	-	HW.01	45M	LOCKERS	NEW DOOR IN EXISTING FIRE RATED FRAME
104A	-	-	-	-	-	-	-	-	-	-	-	-	HW.02	-	STAIR EXIT	EXISTING DOOR AND FRAME NEW HARDWARE AS SPEC'D
104B	2'-8"	6'-8"	1 3/4"	F	HM	P	F1	HM	P	3/A10.1	3/A10.1	-	HW.03	45M	STORAGE/STAIR	NEW DOOR AND FRAME
201A	3'-0"	6'-8"	1 3/4"	F	IM	P	F1	HM	P	2/A10.1	2/A10.1	-	HW.04	-	PRESS BOX MEETING	2ND FLOOR EXIT DOOR
202A	3'-0"	6'-8"	1 3/4"	F	HM	P	F1	HM	P	3/A10.1	3/A10.1	-	HW.03	45M	PRESS BOX MTG/ STAIR	
204A	3'-0"	6'-8"	1 3/4"	F	HM	P	F1	HM	P	3/A10.1	3/A10.1	-	HW.08	-	PRESS BOX	
204B	3'-0"	6'-8"	1 3/4"	F	HM	P	F1	HM	P	3/A10.1	3/A10.1	-	HW.08	-	PRESS BOX	
BUILDING 11																
102A	PR 3'-0"	7'-0"	1 3/4"	F/LVR	HM	P	-	-	P	2/A10.1	2/A10.1	-	HW.05	-	STORAGE	EXISTING FRAME
NEW PRE-ENGINEERED EQUIPMENT SHED																
100A	3'-0"	7'-0"	1 3/4"	F	HM	P	F1	HM	P	-	-	-	HW.07	-	EQUIPMENT SHED	PROVIDED BY METAL BUILDING MANUFACTURER
100B	12'-0"	10'-0"	-	-	-	-	-	-	-	-	-	-	HW.06	-	EQUIPMENT SHED	OVERHEAD DOOR PROVIDED BY METAL BUILDING MANUFACTURER

NOTE: FIELD VERIFY ALL OPENING DIMENSIONS PRIOR TO ORDERING DOORS.

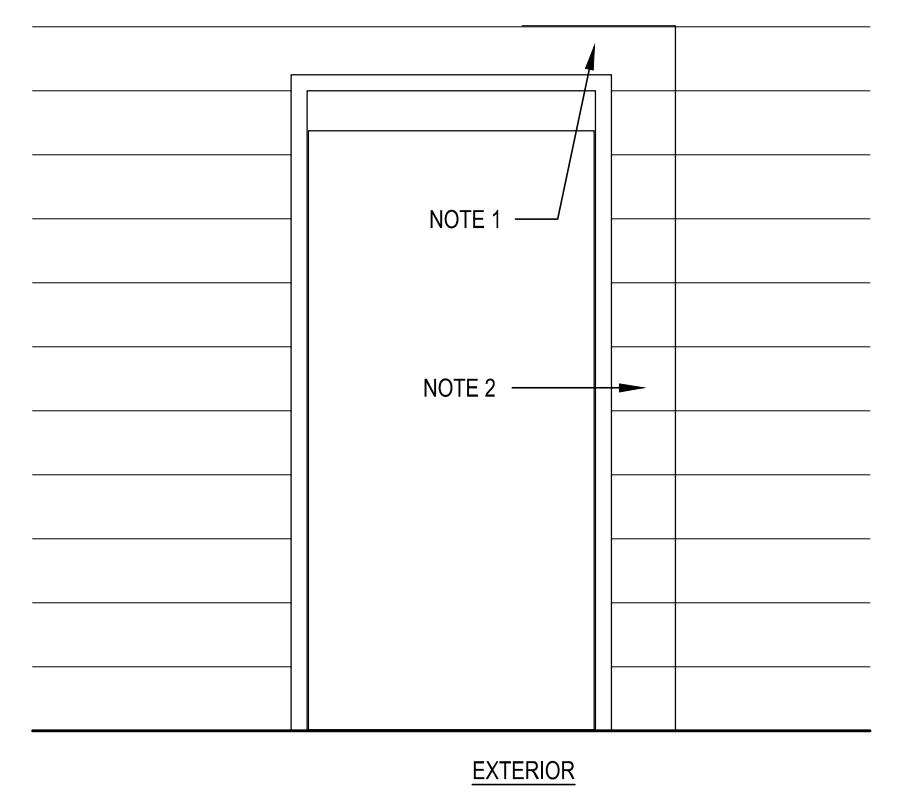


LEGEND

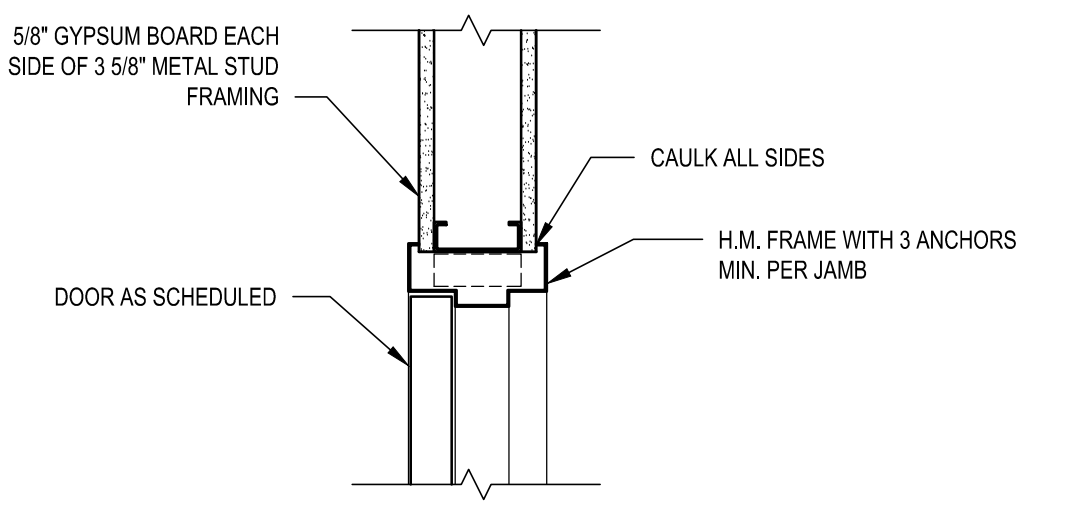
PR	PAIR
AL	ALUMINUM
P	PAINT
HM	HOLLOW METAL
IM	INSULATED METAL
F	FLUSH
LVR	LOUVER



**BUILDING 10
DOOR JAMB DETAIL (HEAD SIM.)**
SCALE: 1 1/2" = 1'-0"

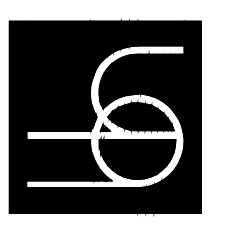


**BUILDING 10
PROPOSED EXTERIOR DOOR
TO PRESS BOX MEETING ROOM**
SCALE: 1 1/2" = 1'-0"



**BUILDING 10
DOOR JAMB DETAIL (HEAD SIM.)**
SCALE: 1 1/2" = 1'-0"

- NOTES:
- NEW CONCRETE LINTEL SET TO ALLOW FOR STANDARD 6'-8" DOOR - REFER TO STRUCTURAL.
 - SAW CUT FACE OF CMU TO ALLOW FOR NEW REINFORCING - REFER TO STRUCTURAL. GROUT SOLID - RAKE JOINTS AS REQUIRED TO MATCH EXISTING COURSEING.



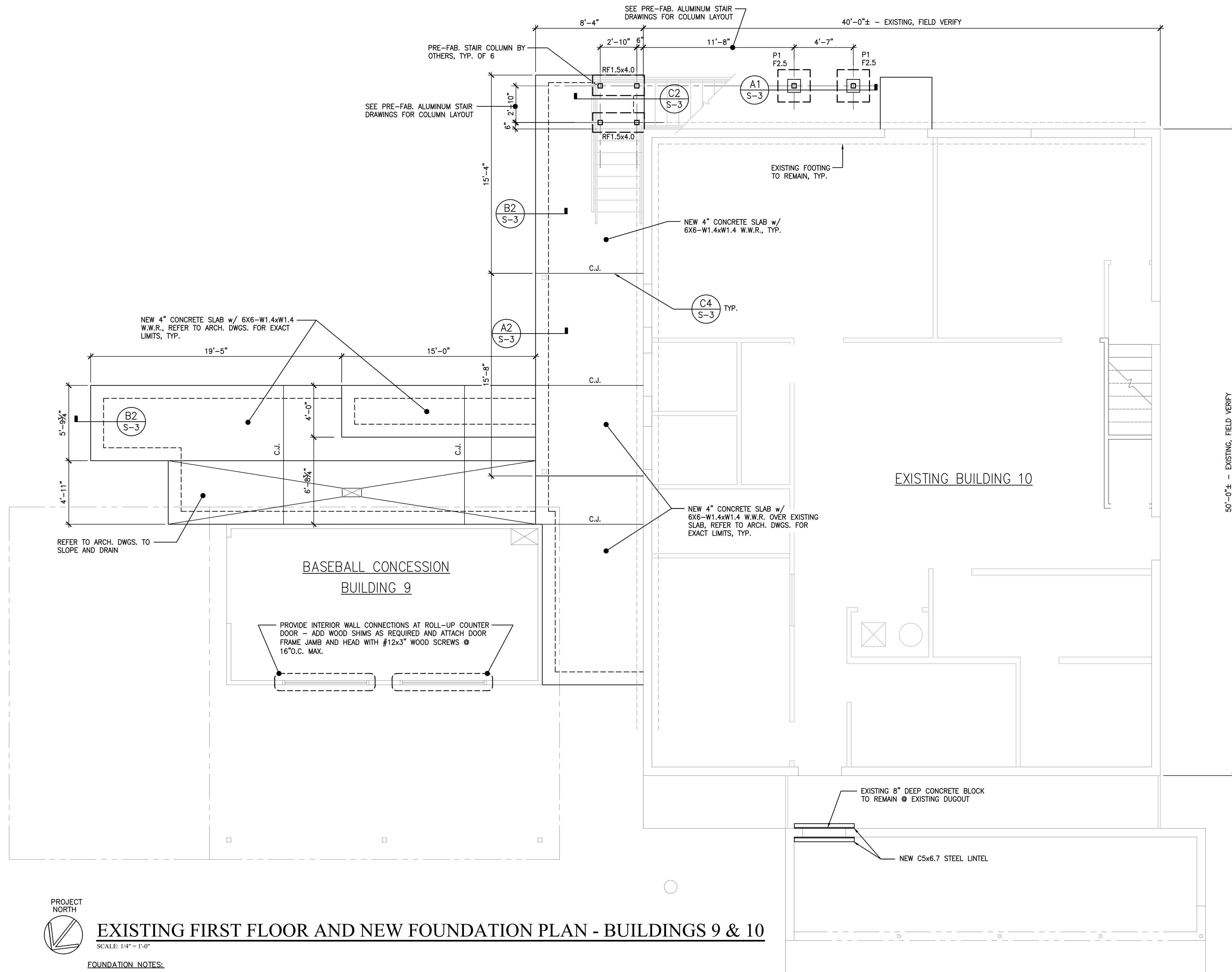
REVISIONS
PERMIT SET 4-22-2020
ORBC COM. AND
ADDENDA 1 & 2 5-13-20

DOOR TYPES,
SCHEDULES,
AND DETAILS

DATE	APR. 22, 2020
D.B.	DMD
C.B.	REM
JOB NO.	15054

PERMIT SET

A10.1



PROJECT NORTH

EXISTING FIRST FLOOR AND NEW FOUNDATION PLAN - BUILDINGS 9 & 10

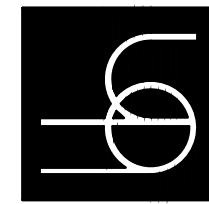
SCALE: 1/4" = 1'-0"

FOUNDATION NOTES:

- REFER TO ARCH. FLOOR PLAN FOR ALL WALL OPENINGS, WALL LOCATIONS, DEPRESSED / SLOPING SLABS, ELEVATIONS & DIMS.
- REFER TO SHEET S3.1 FOR SECTIONS AND DETAILS.
- FOOTINGS & FOUNDATIONS SHALL BE IN ACCORDANCE WITH FBC CHAPTER 18. AND ASSUMED ALLOWABLE PRESSURE 1,500 PSF. T/NEW FTG. -1'-0", TYP. U.N.O.
- REFER TO SHEET S0.1 FOR ADDITIONAL GENERAL NOTES & DESIGN CRITERIA.
- THE STRUCTURAL ENGINEER SHALL NOT HAVE CONTROL OR BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS TECHNIQUES, PROCEDURES OR SEQUENCES. FOR THE ACTS OR OMISSIONS OF THE CONTRACTOR, OR ANY OTHER PERSONS PERFORMING THE WORK, OR FOR THE FAILURE OF ANY OF THEM TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- MOMENT TRANSFER TO FOUNDATIONS FROM PRE-FAB. ALUMINUM STAIR IS NOT PERMITTED.

FOOTING AND PEDESTAL SCHEDULE			
MARK	SIZE	REINFORCING	REMARKS
F2.5	2'-6" x 2'-6" x 1'-0"	(3)#5 EACH WAY, TOP & BOTTOM	
RF1.5x4.0	1'-6" x 4'-0" x 1'-0" MIN. DEPTH	(4)#5 LONG WAY, TOP & BOTTOM & #4 @ 12" O.C. TRANSVERSE, TOP AND BOTTOM	REFER TO SECTION C2/S-3
P1	14" x 14" x 1'-4" MIN.	REFER TO DETAIL B5/S3.1	

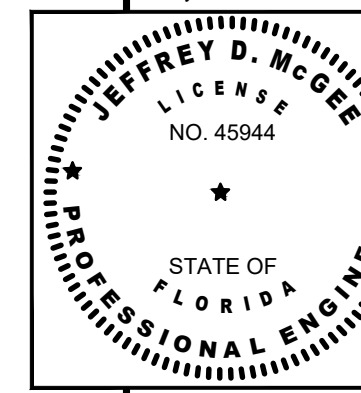
BHIDE & HALL ARCHITECTS, P.A.
1329 KINGSLEY AVENUE, SUITE C
ORANGE PARK, FLORIDA 32073
PH: (904) 264-1919
LIC. NO. AAC000569



SAFETY DEFICIENCIES AT BASEBALL AND SOFTBALL
FIELDHOUSES AT WOLFSON HIGH SCHOOL NO. 224

7000 POWERS AVENUE
JACKSONVILLE, FLORIDA 32217

Structural Engineer License No.
Jeffrey D. McGee 45944

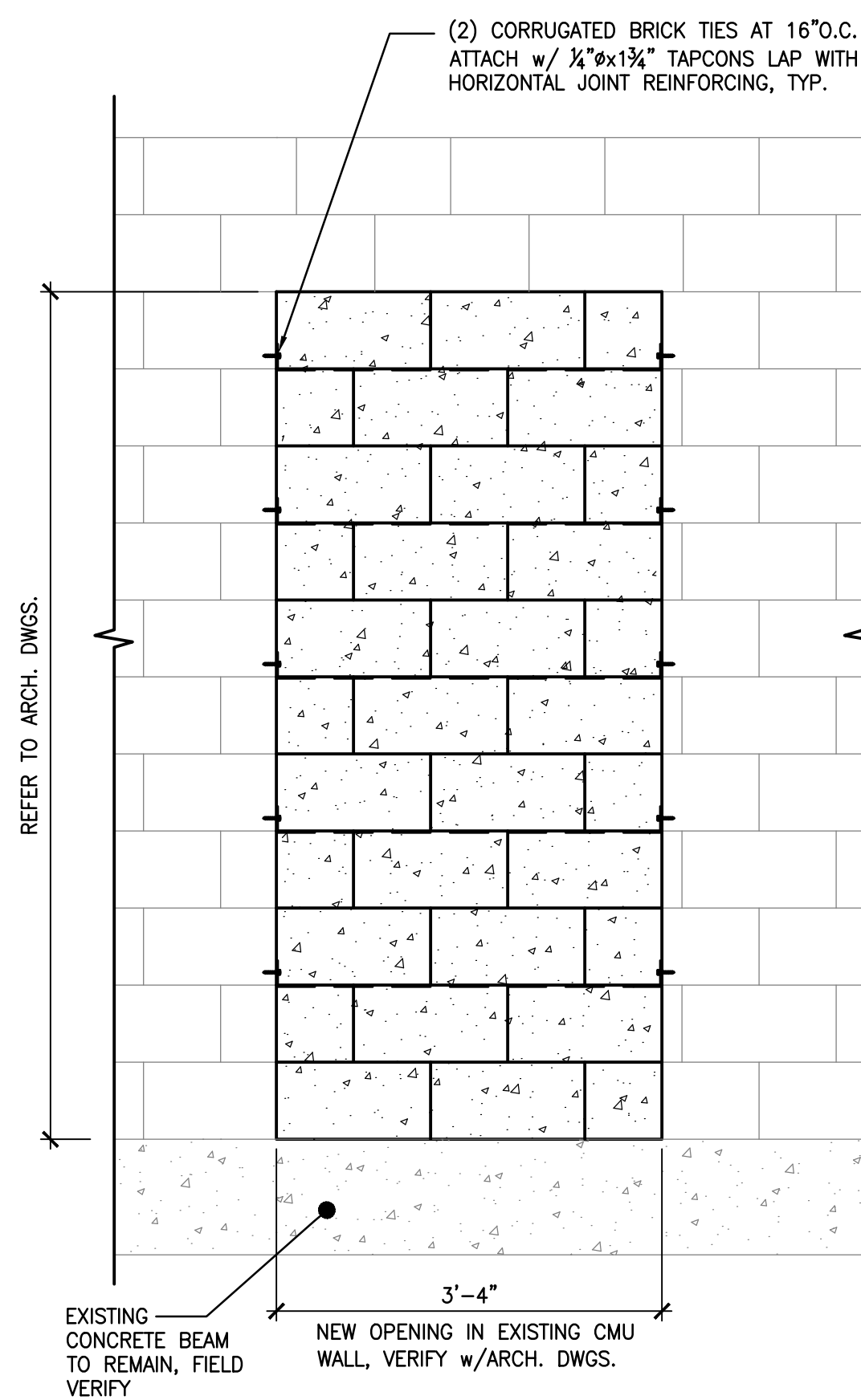


REVISIONS

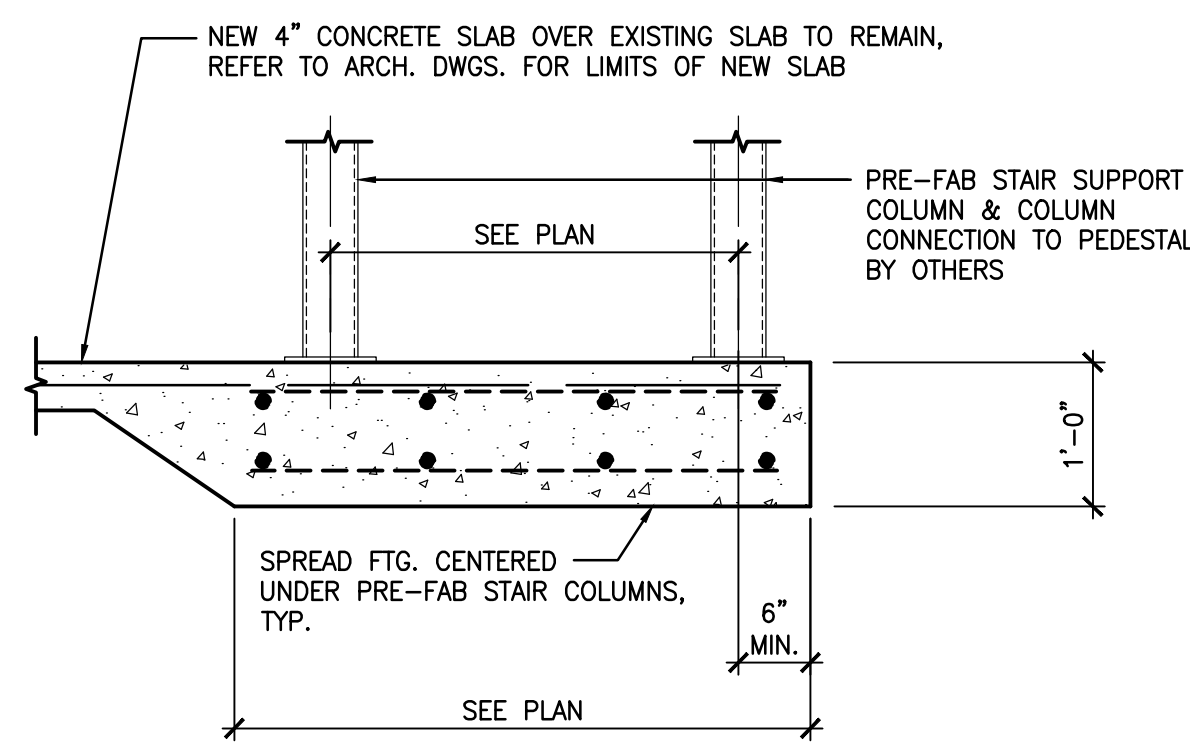
EXISTING
FIRST FLOOR AND
NEW FOUNDATION
PLAN
BLDGS. 9 AND 10
DATE MAR. 25, 2020
D.B. KATMP
C.B. KMDIM
JOB NO. 15054

PERMIT SET

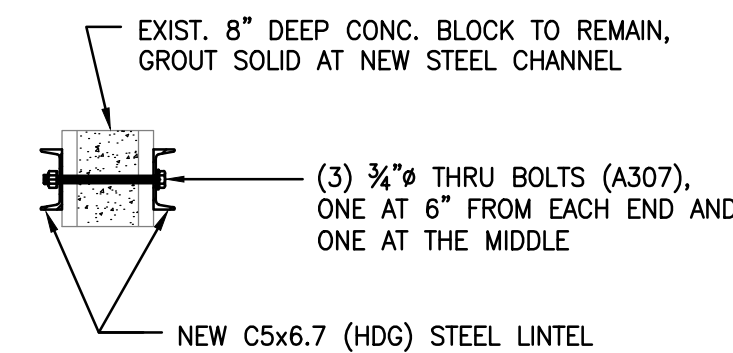
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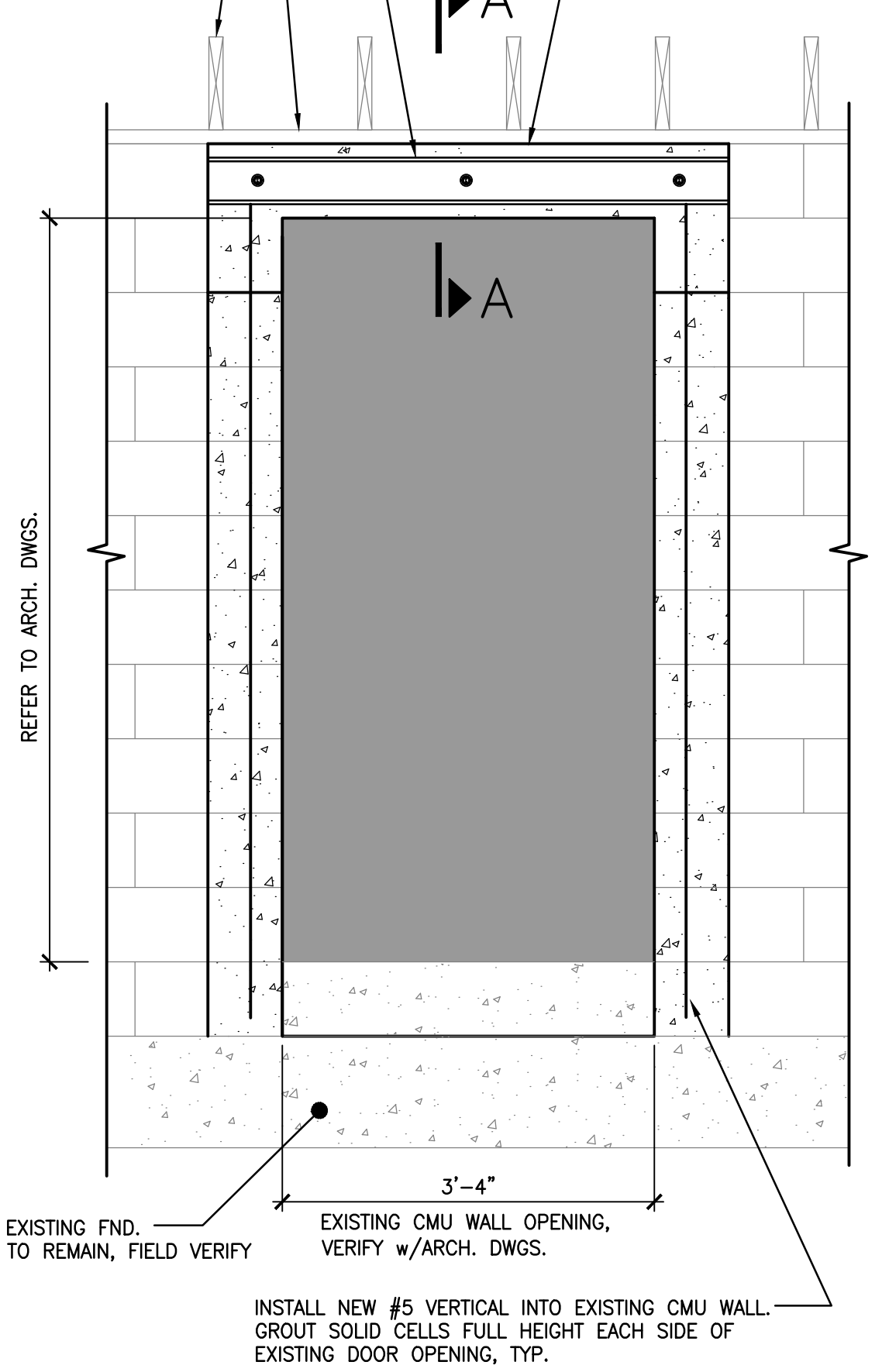
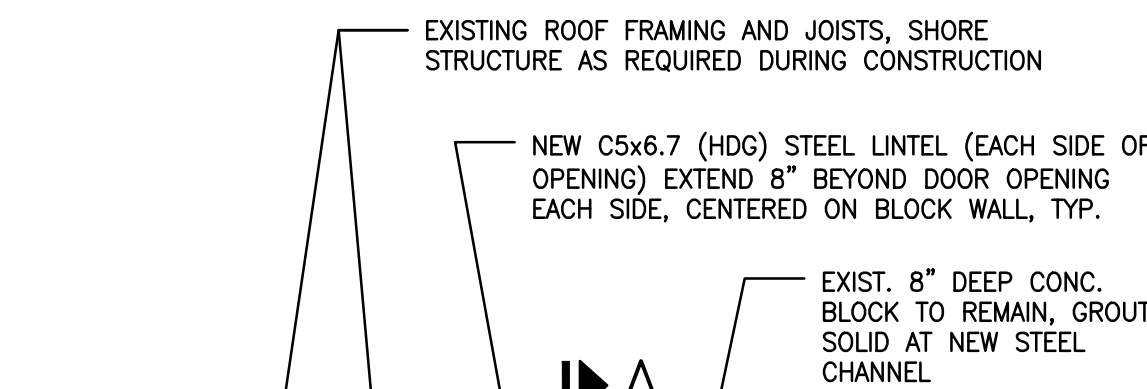
SECTION AT EXIST. OPENING
 @ EXIST. 2ND FLOOR SCALE: 3/4"=1'-0" (C1)



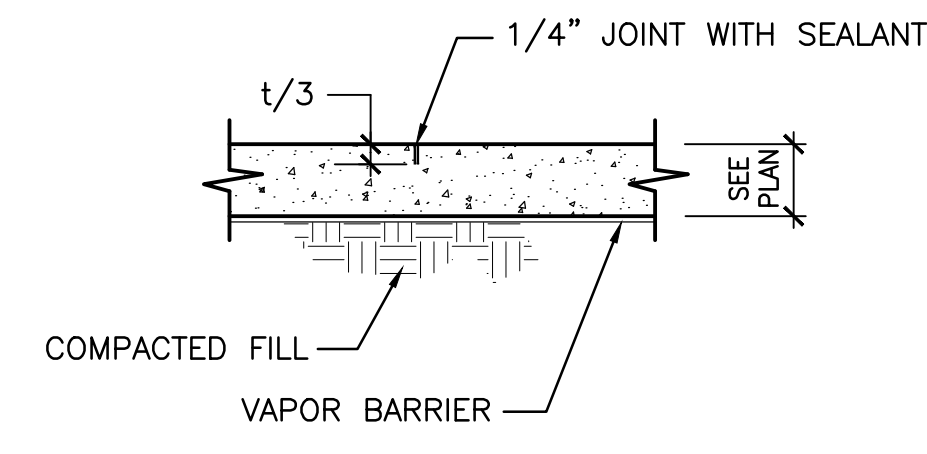
SECTION AT NEW PEDESTAL SCALE: 3/4"=1'-0" (C2)



SECTION A-A

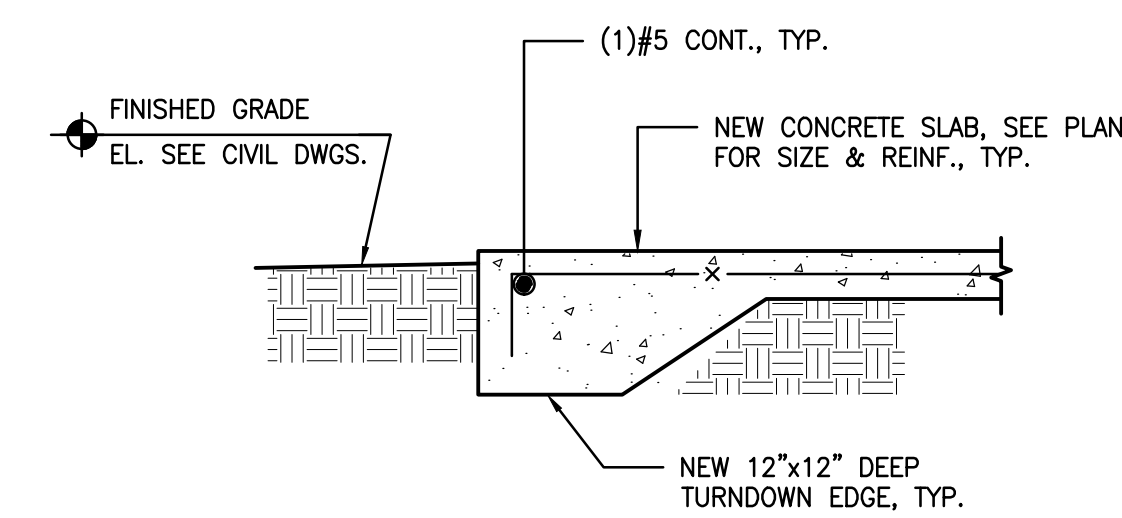


SECTION AT NEW LINTEL
 @ EXIST. DUGOUT SCALE: 3/4"=1'-0" (A3)

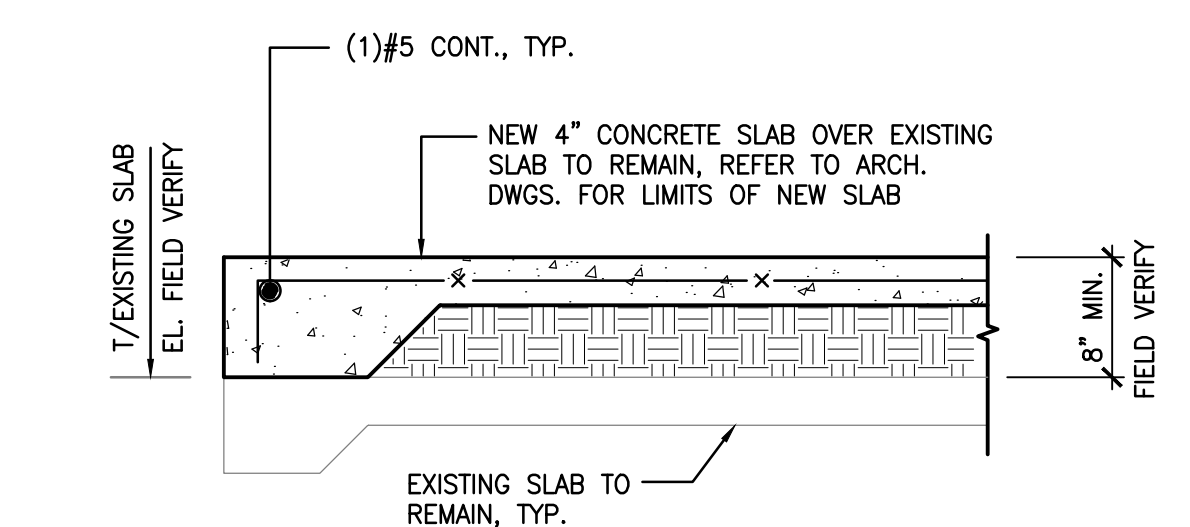


SLAB JOINT DETAIL SCALE: NONE (C4)

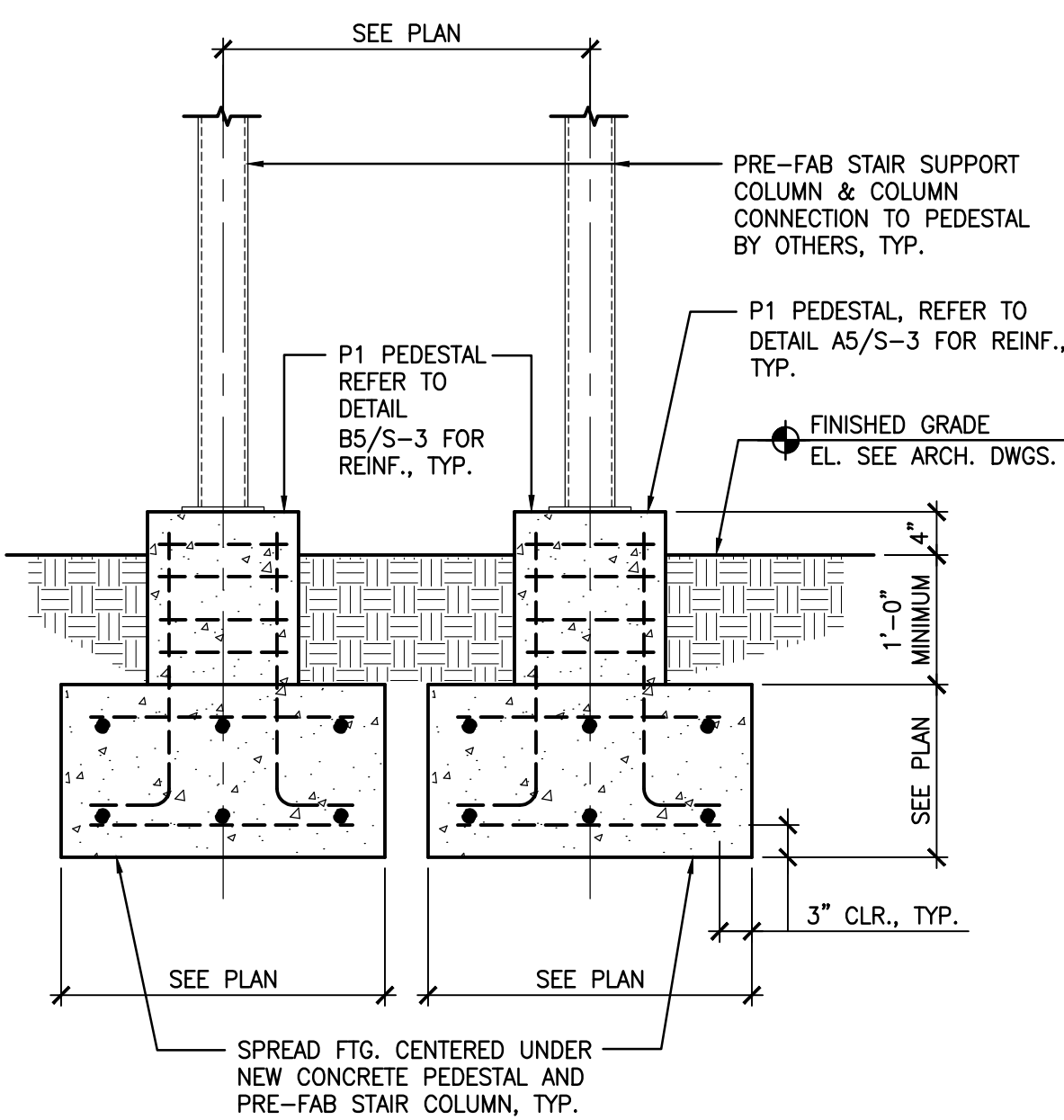
- NOTES:
- REFER TO PLANS FOR SLAB REINF.
 - t = SLAB THICKNESS, SEE PLAN.
 - CONTRACTOR SHALL CUT SLAB CONTROL JOINTS WITHIN 4-8 HRS OF SLAB PLACEMENT.



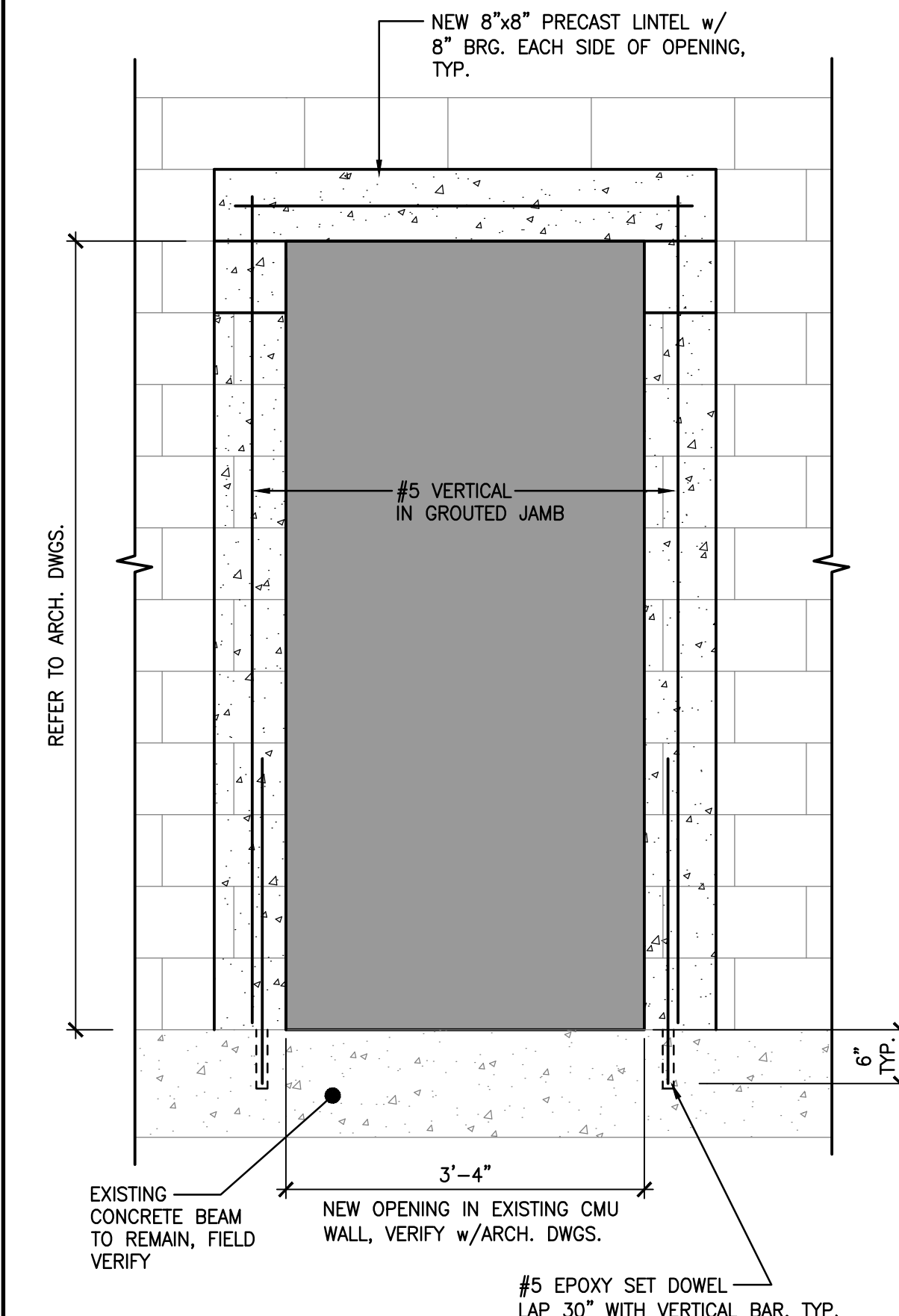
SECTION AT TURNDOWN SCALE: 3/4"=1'-0" (B2)



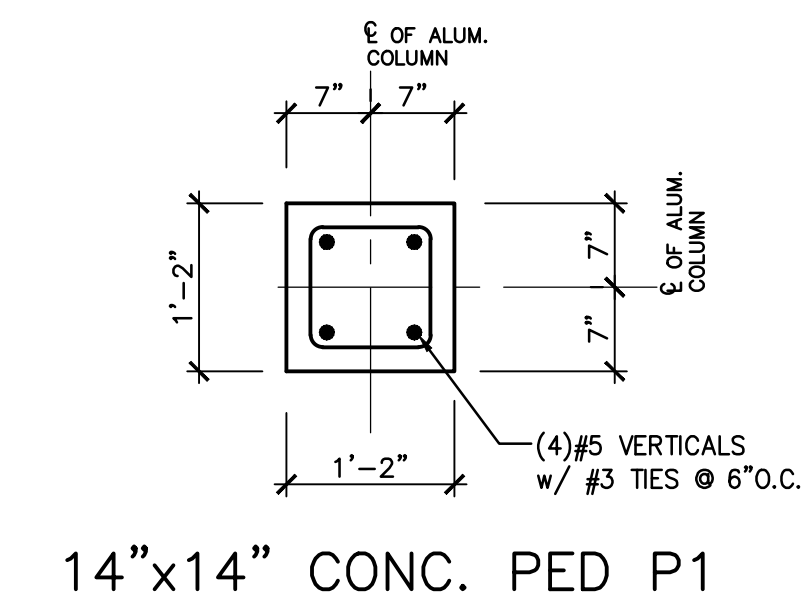
SECTION AT NEW SLAB
 OVER EXIST. SLAB SCALE: 3/4"=1'-0" (A2)



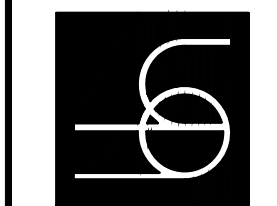
SECTION AT NEW PEDESTAL SCALE: 3/4"=1'-0" (A1)



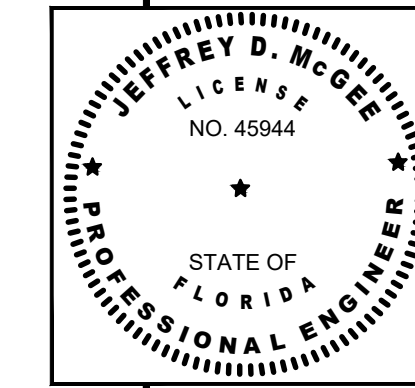
SECTION AT NEW OPENING
 @ EXIST. 2ND FLOOR SCALE: 3/4"=1'-0" (A4)



CONCRETE PEDESTAL DETAILS
 PLAN VIEW SCALE: 3/4"=1'-0" (A5)



Structural Engineer License No.
 Jeffrey D. McGee 45944



SECTIONS AND DETAILS

DATE	MAR. 25, 2020
D.B.	KA/TMP
C.B.	KM/JDM
JOB NO.	15054

PERMIT SET

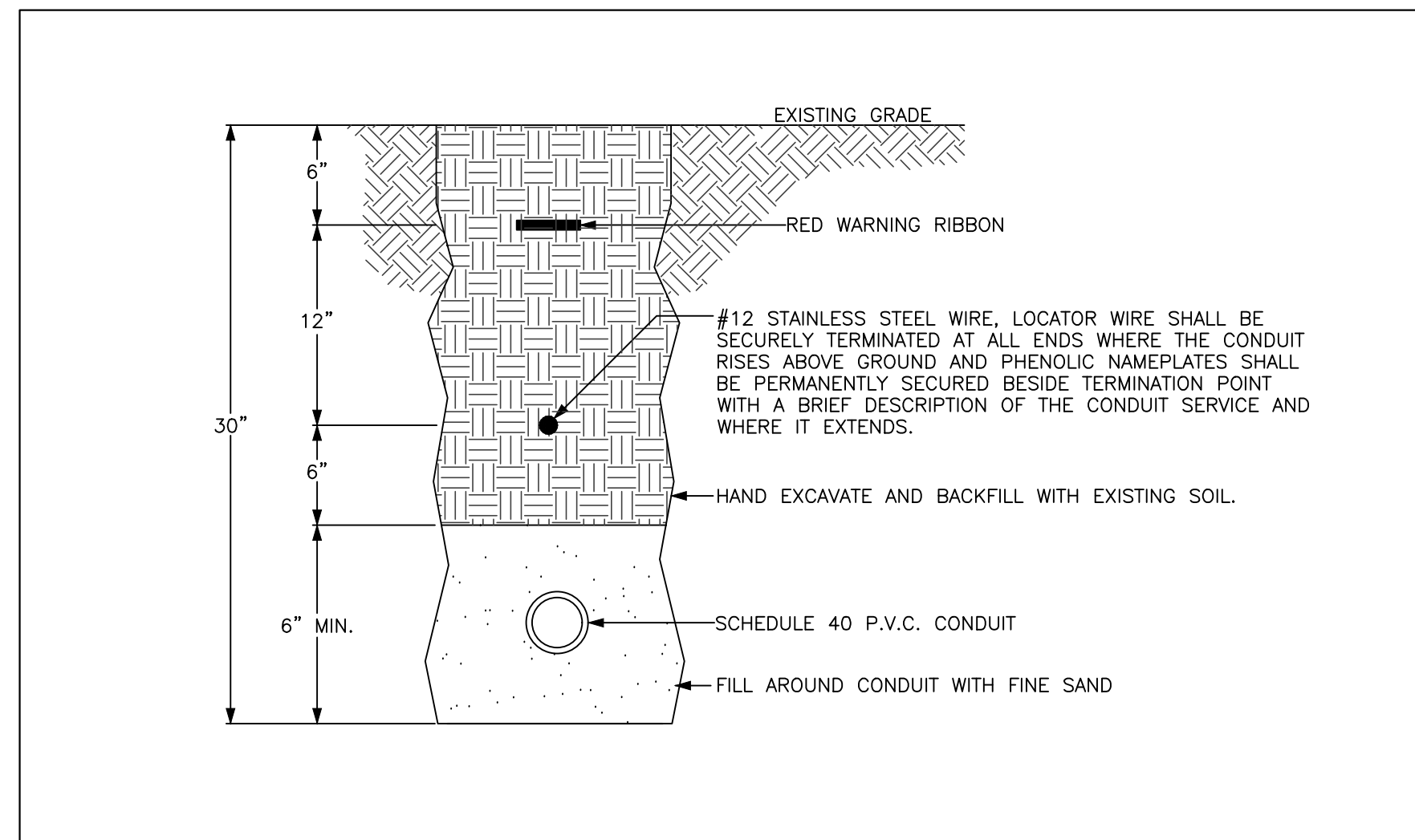
S-3

GENERAL NOTES:

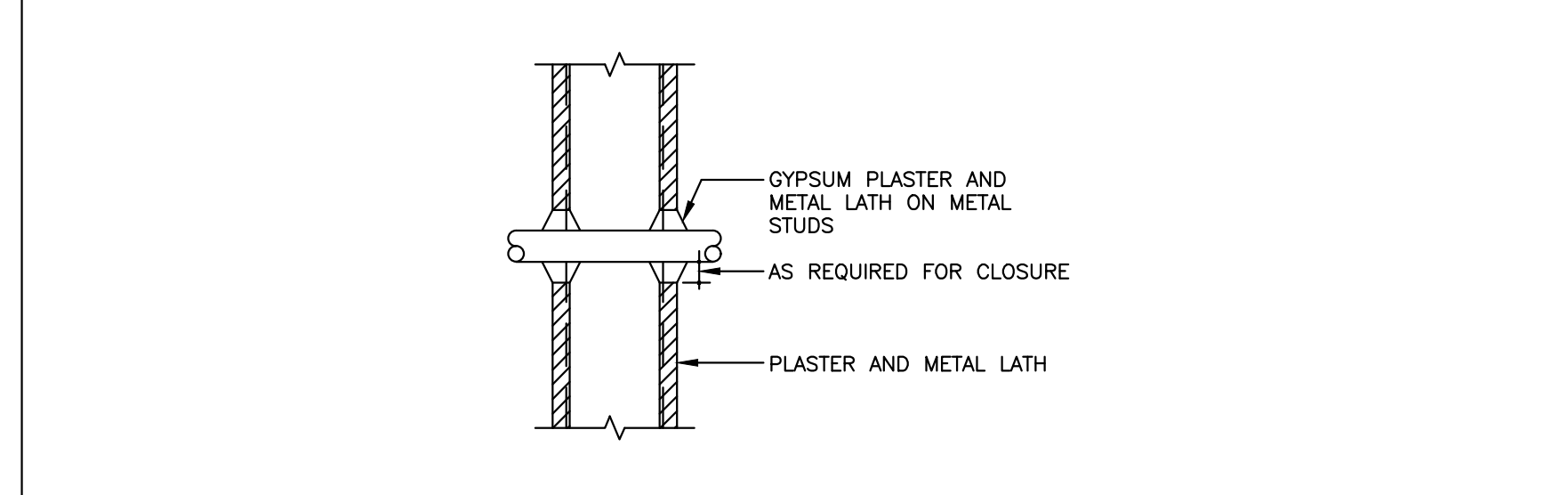
- THE CONTRACTOR SHALL NOT TAKE POSSESSION OF OR DISPOSE OF ANY SALVAGEABLE ITEMS IN ASSOCIATION WITH THE WORK. ALL SALVAGEABLE ITEMS SHALL BE THE OWNER'S PROPERTY AT HIS OPTION. ALL UNSALVAGEABLE EQUIPMENT AND MATERIALS SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE. ALL EQUIPMENT, DEVICES, WIRES, AND CABLES SHALL BE TURNED OVER TO CCSD PERSONNEL. CONTRACTOR SHALL PROVIDE DOCUMENTATION VERIFYING THAT ALL REQUIRED MATERIALS WERE TURNED OVER TO THE PROPER CCSD PERSONNEL.
- THE ELECTRICAL CONTRACTOR SHALL MAINTAIN ACCURATE RECORDS OF ANY MODIFICATIONS TO EXISTING SYSTEMS AND SHALL UPON COMPLETION, DELIVER "AS-BUILT" DRAWINGS TO THE OWNER, INDICATING ANY SUCH CHANGES.
- CONTRACTOR MAY NOT RE-USE ANY EXISTING WIRING. WHERE FEEDERS ARE ABANDONED, WIRE SHALL BE PULLED OUT AND ALL EXPOSED SECTIONS OF CONDUITS REMOVED. ALL CONCEALED CONDUITS SHALL BE CAPPED AT POINT OF CONCEALMENT.
- CONTRACTOR MAY REUSE EXISTING CONDUIT SYSTEMS. DEVICE BOXES MUST BE IN THE CORRECT LOCATION IN ORDER TO BE REUSED. CONDITION OF EXISTING PATHWAYS MUST BE DEEMED ACCEPTABLE AND COMPLY WITH PROJECT SPECIFICATIONS AND APPLICABLE CODES IN ORDER TO BE REUSED. REMOVE ALL ABANDONED SURFACE MOUNTED CONDUIT. UNUSED CONDUITS STUBBING UP FROM FLOOR SHALL BE CUT FLUSH WITH FLOOR AND CAPPED.
- WHEN NECESSARY, THE CONTRACTOR SHALL PROVIDE ALL WORK REQUIRED TO PROVIDE COMPLETE CONDUIT SYSTEMS AND RUNS. THIS INCLUDES, BUT IS NOT LIMITED TO, ALL MATERIALS, INSTALLATION HARDWARE, DRILLING OF WALLS/BEAMS, TRENCHING, MOUNTING HARDWARE, LABOR, PAINTING, REPAIRING OF EXISTING SURFACES, FIRESTOPPING AND ACCESSORIES.
- CONTRACTOR SHALL VISIT SCHOOL SITE PRIOR TO PREPARING HIS BID AND DETERMINE THE EXTENT OF EXISTING EQUIPMENT AND WIRING TO ACCOMMODATE CHANGES AND ADDITIONS. ALL THE NECESSARY REROUTING, RELOCATING AND/OR REMOVAL OF EXISTING EQUIPMENT, WIRING, ETC. SHALL BE INCLUDED IN THE SCOPE OF THIS WORK. ANY VARIATION FROM EXISTING CONDITIONS SHALL BE INCLUDED UNDER THIS CONTRACT.
- RESTORE DISTURBED CEILING/WALLS TO ORIGINAL CONDITION. FINISH AND PAINT DAMAGED AREAS. PAINT SHALL MATCH EXISTING.
- REPLACE DAMAGED CEILING TILES. NEW CEILING TILES SHALL BE SAME TYPE AND QUALITY OF EXISTING TILES.
- PAINT ALL INTERIOR AND EXTERIOR, EXPOSED CONDUITS SAME COLOR AS SURFACE.
- NEW DEVICES SHALL BE MOUNTED AT HEIGHTS AS SHOWN ON LEGEND AND MOUNTING DETAILS. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY CONFLICTS WITH SPECIFIED MOUNTING HEIGHTS.
- WHEN POSSIBLE, CONDUITS SHALL BE CONCEALED IN WALLS, ABOVE CEILING SPACE, OR UNDERGROUND. EXPOSED CONDUITS WILL BE PERMITTED ON CONCRETE WALLS OR ON CEILINGS WITH NO CAVITY. FOR INTERIOR BRANCH PATHWAYS FEEDING INDIVIDUAL DEVICES, WIREMOLD SHALL BE UTILIZED FOR EXPOSED LOCATIONS.
- ALL EXTERIOR JUNCTION BOXES SHALL BE NEMA-3R AND EITHER PVC OR WEATHERPROOF GASKETED STEEL. PAINT SAME COLOR AS SURFACE.
- IF NECESSARY, MODIFY EXISTING WALL OPENINGS TO ACCOMMODATE NEW EQUIPMENT OR PANEL LOCATIONS.
- UPDATE PANEL BOARD DIRECTORIES TO REFLECT TYPE AND LOCATION OF ADDED CIRCUITS. NEW DIRECTORIES SHALL BE TYPED OR MACHINE GENERATED.
- ALL DEVICE BOXES SHALL BE CONCEALED IN WALL OR CEILING. FOR EXISTING CONCRETE WALLS, PROVIDE SURFACE BOXES. ALL EXPOSED DEVICE BOXES SHALL BE METAL WIREMOLD OR EQUAL. STAMPED BOXES WILL NOT BE ACCEPTABLE FOR EXPOSED LOCATIONS. SURFACE MOUNTED BOXES FOR FIRE ALARMS SHALL BE RED. USE CAST METAL BOXES (GASKETED) FOR EXTERIOR DEVICES.
- PROVIDE BLANK METAL COVER PLATES FOR ALL ABANDONED RECESSED BOXES. COVER PLATES SHALL BE COMPLETELY SOLID WITH NO OPENINGS OR GAPS. COVER PLATES SHALL COMPLETELY COVER EXISTING OPENINGS. COVER PLATES SHALL HAVE WHITE FINISH.
- PROVIDE NEW CEILING TILES AT ALL LOCATIONS WHERE EXISTING CEILING MOUNTED DEVICES ARE REMOVED. NEW CEILING TILES SHALL BE SAME TYPE AND QUALITY OF EXISTING TILES.
- IF EXISTING HOLES OR OPENINGS IN WALLS AND/OR CEILINGS ARE UTILIZED FOR CONDUIT ROUTING, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PATCHING, CAULKING, FINISHING, OR OTHER MODIFICATIONS REQUIRED TO COMPLETELY REPAIR HOLE OR OPENING IN WALL AND/OR CEILING. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FIRESTOPPING REQUIRED TO RE-ESTABLISH THE FIRE RESISTANCE RATING OF THE BARRIER.
- DRAWINGS SHOW APPROXIMATE LOCATION OF DEVICES. THE EXACT LOCATION SHALL BE DETERMINED AT BUILDING SITE BY OWNER REPRESENTATIVES. THE OWNER SHALL RESERVE THE RIGHT TO RELOCATE ANY DEVICE TO A DISTANCE NOT EXCEEDING 15' FROM THE LOCATION ON THE DRAWING DURING ROUGH-IN. WORK SHALL BE ACCOMPLISHED AT NO ADDITIONAL COST TO OWNER.
- REPAIR CABINETS, WALLS, AND SHELVES DAMAGED BY CONTRACTOR OPERATION.
- CONTRACTOR SHALL BE RESPONSIBLE FOR PROPERLY SEALING ALL NEW PENETRATIONS IN FIRE RATED ASSEMBLIES, BOTH VERTICAL AND HORIZONTAL, IN ACCORDANCE WITH SECTION 705 OF THE FLORIDA BUILDING CODE, WHICH REQUIRES THAT ALL INSTALLATIONS OF PENETRATIONS THROUGH FIRE RATED ASSEMBLIES OR FIRE STOP SYSTEMS SHALL BE AS TESTED BY ASTM E 119 & ASTM E 814.
- CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADEQUATELY SIZED BOXES, OF APPROPRIATE DEPTH, FOR BOTH RECESSED AND SURFACE MOUNTED INSTALLATIONS. VERIFY BOXES CAN ACCOMMODATE BOTH DEVICES AND WIRING PRIOR TO INSTALLATION.
- CONTRACTOR SHALL USE OFFICIAL SCHOOL FISH NUMBERS FOR ALL LABELING AND IDENTIFICATION. OFFICIAL FISH NUMBERS SUPERSEDE ROOM NUMBERS SHOWN ON PLANS AND ACTUAL ROOM NUMBERS PHYSICALLY LOCATED THROUGHOUT THE FACILITY. COORDINATE WITH CCSD PERSONNEL FOR OFFICIAL FISH NUMBERS PRIOR TO PERFORMING ANY LABELING.
- ALL EXISTING SYSTEMS SHALL REMAIN INTACT AND FULLY OPERATIONAL UNTIL ALL NEW SYSTEMS HAVE BEEN TESTED, INSPECTED, AND APPROVED. ONCE APPROVAL HAS BEEN OBTAINED, CONTRACTOR SHALL PROCEED WITH DEMOLITION WORK. REMOVE ABANDONED CABLES, CONDUITS, EQUIPMENT, AND DEVICES. REPAIR WALLS AND CEILINGS. AFTER DEMOLITION IS COMPLETE, THE CONTRACTOR SHALL BE REQUIRED TO REQUEST A PATHWAY INSPECTION TO VERIFY SEALING OF PENETRATIONS, ETC.
- CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ALL SIDEWALKS AND PAVEMENT CUT OR DAMAGED DURING CONSTRUCTION. PATCH / REPAIR TO MATCH EXISTING CONDITION.
- CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ALL LANDSCAPE AND AREAS OF GRASS DISTURBED DURING CONSTRUCTION. REPLACE SOD AND/OR SEED AREAS AS REQUIRED.
- ALL EXISTING EQUIPMENT, PANELS, DEVICES, WIRES, AND ABANDONED CONDUIT SHOULD BE REMOVED BY THE COMPLETION OF THE PROJECT.
- CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING ENGINEER OF ANY ITEMS OF NON-COMPLIANCE, WHETHER IT IS THE RESULT OF NEW WORK OR IS AN UNCOVERED EXISTING CONDITION.
- WHEN POSSIBLE CONTRACTOR SHALL ROUTE CONDUITS FOR DEVICES INSIDE WALL IN LIEU OF PROVIDING SURFACE MOUNTED RACEWAY IN ALL ADMINISTRATIVE OR OFFICE AREAS. WHEN EXPOSED RACEWAYS ARE NECESSARY IN THESE AREAS, THE CONTRACTOR SHALL UTILIZE WIREMOLD IN LIEU OF CONDUIT.
- CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO COVER AND PROTECT EXISTING ELECTRONICS, EQUIPMENT, AND SCHOOL PROPERTY DURING CONSTRUCTION.
- CONTRACTOR SHALL INCLUDE IN BASE BID NEEDED MODIFICATIONS TO CREATE PATH FOR NEW RACEWAYS. EXISTING CONDITIONS MAY REQUIRE CONTRACTOR TO OFFSET NEW RACEWAYS OVER EXISTING PIPING IN ORDER TO PROVIDE INDICATED ROUTING.
- PROVIDE MINIMUM 12" SERVICE LOOPS IN ALL PULL BOXES.
- UNDERGROUND CONDUITS SHALL BE PVC SCHEDULE 40. STUB-UPS (INCLUDING ELLS) SHALL BE RIGID GALVANIZED STEEL CONDUIT. PROVIDE ASPHALTUM COATING TO COVER STEEL CONDUIT AND ELLS IN CONTACT WITH EARTH OR CONCRETE.
- USE OF PLASTIC ANCHORS IS PROHIBITED. DO NOT USE PLASTIC ANCHORS FOR SECURING PANELS, CONDUITS, OR ANY COMPONENTS.

NOTES:

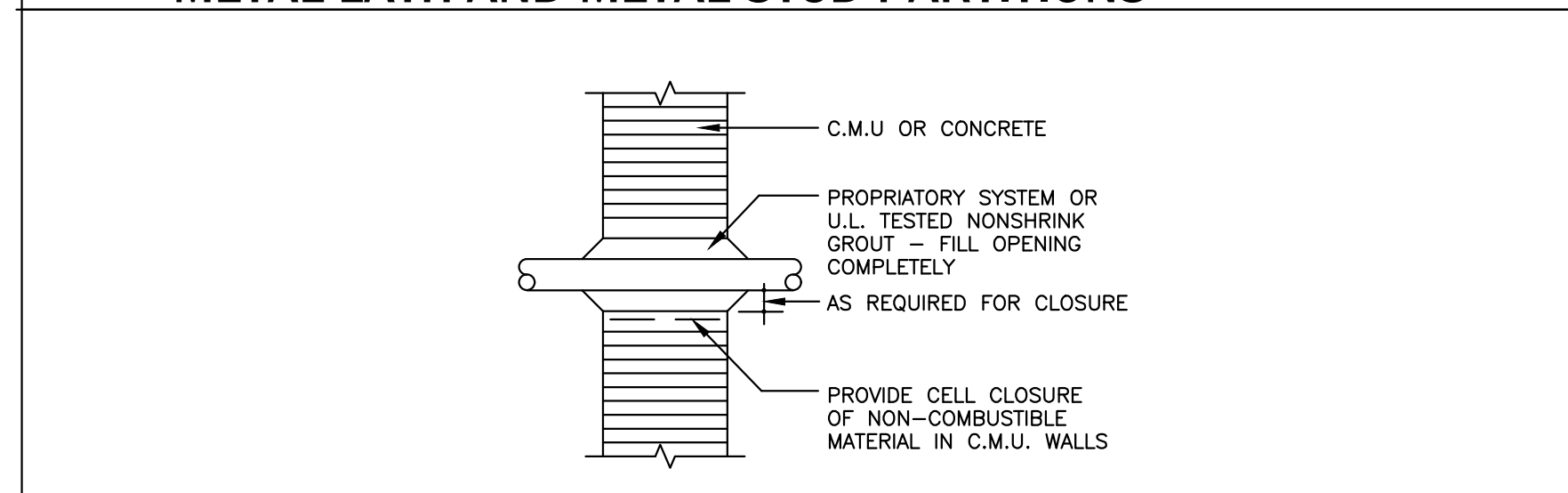
- ① PROVIDE NEW CIRCUIT BREAKER AND ASSOCIATED WIRING.



NOT TO SCALE
DIRECT BURIED CONDUIT DETAIL



NOT TO SCALE
TYPICAL FIRESTOPPING DETAIL GYPSUM PLASTER, METAL LATH AND METAL STUD PARTITIONS



NOT TO SCALE
TYPICAL FIRESTOPPING DETAIL CONCRETE MASONRY OR SOLID CONCRETE WALLS

EXISTING EXTERIOR PANEL												
SURFACE MTD. CIRCUIT BREAKER TYPE												
120/240 VOLTS 3 PHASE 4 WIRE 600 AMP MAIN CIRCUIT BREAKER												
CKT NO.	DESIGNATION	CIRCUIT			CIRCUIT BREAKER		KVA	KVA	CIRCUIT BREAKER			CKT NO.
		WIRE	GND	COND	POLE	TRIP			TRIP	POLE	COND	
1	EXISTING CIRCUIT	-	-	-	-	-	-	-	-	-	-	2
3	-	-	-	-	-	-	-	-	-	-	-	4
5	EXISTING CIRCUIT	-	-	-	-	-	-	-	-	-	-	6
7	-	-	-	-	-	-	-	-	-	-	-	8
9	LAWN STOR. BLDG.	10	10	1	2	20	0.5	-	-	-	-	10
11	-	-	-	-	-	-	-	-	-	-	-	12
13	-	-	-	-	-	-	-	-	-	-	-	14
15	-	-	-	-	-	-	-	-	-	-	-	16
17	EXISTING CIRCUIT	-	-	-	-	-	-	-	-	-	-	18
19	EXISTING CIRCUIT	-	-	-	-	-	-	-	-	-	-	20
21	-	-	-	-	-	-	-	-	-	-	-	22
23	EXISTING CIRCUIT	-	-	-	-	-	-	-	-	-	-	24
25	-	-	-	-	-	-	-	-	-	-	-	26
27	-	-	-	-	-	-	-	-	-	-	-	28
29	EXISTING CIRCUIT	-	-	-	-	-	-	-	-	-	-	30
31	-	-	-	-	-	-	-	-	-	-	-	32
33	-	-	-	-	-	-	-	-	-	-	-	34
35	EXISTING CIRCUIT	-	-	-	-	-	-	-	-	-	-	36
37	-	-	-	-	-	-	-	-	-	-	-	38
39	EXISTING CIRCUIT	-	-	-	-	-	-	-	-	-	-	40
41	-	-	-	-	-	-	-	-	-	-	-	42
TOTAL KVA							-	AMP. RMS. SYMMETRICAL SHORT CIRCUIT CURRENT RATING				

ELECTRICAL LEGEND:

- LED LIGHTING FIXTURE – SURFACE MOUNTED.
- EMERGENCY LIGHTING FIXTURE. DO NOT SWITCH.
- SURFACE MOUNTED LIGHTING FIXTURE.
- EXISTING EXIT LIGHT.
- WALL MOUNTED OCCUPANCY SENSOR – PASSIVE INFRARED WALL SWITCH, 120/277 VOLT, WATT STOPPER #PW-101-I, IVORY WITH IVORY COVERPLATE. 46" MOUNTING HEIGHT, U.N.O.
- TOGGLE SWITCH – SINGLE POLE – QUIET TYPE 20 AMP, 120/277 VOLT, HUBBELL NO. HBL12211 WITH NO. NP11 COVERPLATE – 46" MOUNTING HEIGHT, U.N.O.
- MOTOR RATED CLASS 1, DIV 2, TOGGLE SWITCH – SINGLE POLE – 20 AMP, 120/277 VOLT, 46" MOUNTING HEIGHT, U.N.O.
- DUPLEX RECEPTACLE WITH GROUNDING FAULT INTERRUPTER, 20 AMP, 120 VOLT, 3 WIRE GROUNDING, HUBBELL #GFR53625GI WITH ML500G COVERPLATE, 18" MOUNTING HEIGHT, U.N.O.
- JUNCTION BOX SIZE PER NEC.
- LIGHTING AND/OR POWER PANELBOARD.
- WIRING IN CONDUIT, RUN CONCEALED IN SLAB OR UNDERGROUND.
- WIRING IN CONDUIT, RUN CONCEALED ABOVE CEILING OR IN WALLS.
- WP DENOTES WEATHERPROOF
- U.N.O. UNLESS NOTED OTHERWISE.
- A.F.F. ABOVE FINISHED FLOOR.
- MOTOR, FAN, PUMP OR AIR CONDITIONING UNIT CONNECTION PER NEC.

FIRE ALARM LEGEND

- NEW CEILING MOUNTED HEAT DETECTOR. MATCH EXISTING.
- NEW FLUSH MOUNTED MANUAL FIRE ALARM PULL STATION, 46 INCH MOUNTING HEIGHT. MATCH EXISTING
- NEW SEMI-FLUSH MOUNTED FIRE ALARM AUDIO/VISUAL WARNING DEVICE, 80-96 INCH MOUNTING HEIGHT. 110 INDICATES 110 CANDELA STROBE. UTILIZE 75 CANDELA IN SMALL ROOMS AND CORRIDORS. USE 110 CANDELA IN ROOMS LARGER THAN 30' IN WIDTH OR LENGTH. MATCH EXISTING.
- NEW SEMI-FLUSH FIRE ALARM VISUAL WARNING DEVICE, WALL MOUNTED. 80-96 INCH MOUNTING HEIGHT. (FROM FLOOR TO BOTTOM OF DEVICE). MATCH EXISTING
- CEILING MOUNTED SMOKE DETECTOR.
- AIR CONDITIONING/HEAT PUMP SHUT DOWN RELAY.
- HORN, WEATHERPROOF, 90° MOUNTING HEIGHT. PROVIDE WHEELLOCK WP KIT. FOR DEVICES WITHOUT PROTECTION OF OVERHANG, PROVIDE CUSTOM FABRICATED SHIELD TO MOUNT DIRECTLY OVER DEVICE. CAULK SHIELD TO WALL FOR WATER TIGHT INSTALLATION. IN THESE LOCATIONS, CONTRACTOR SHALL ROUTE CONDUITS TO ENTER BOTTOM OF DEVICE. DEVICE SHALL NOT BE EQUIPPED WITH A STROBE. MANUFACTURER SHIELD MAY BE PROVIDED IN LIEU OF CUSTOM SHIELD IF AVAILABLE.

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SAFETY DEFICIENCIES AT BASEBALL AND SOFTBALL FIELDHOUSES AT WOLFSON HIGH SCHOOL NO. 224

NAME & LICENSE NO. OF REGISTERED PROFESSIONAL ENGINEER

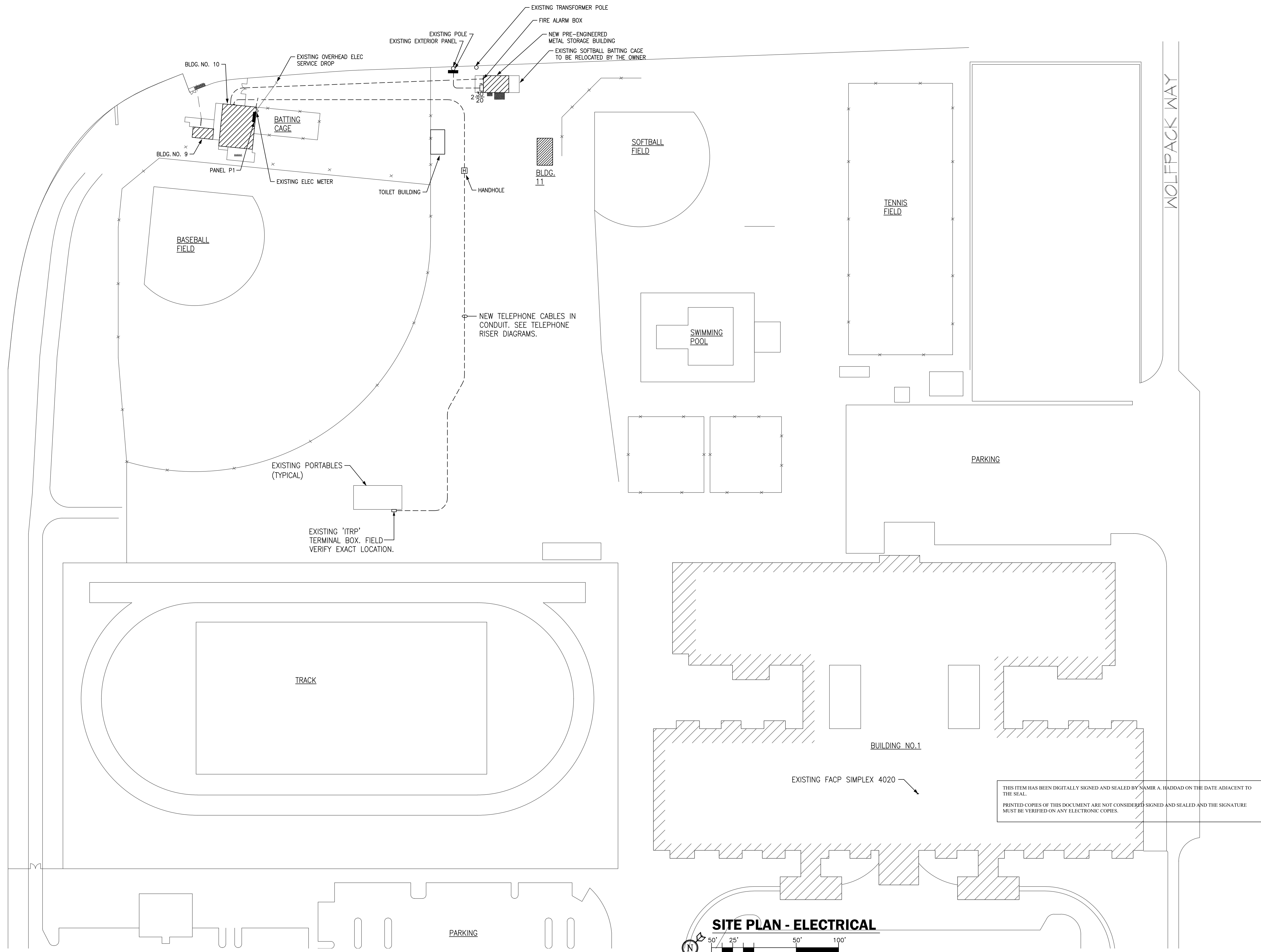
NAMIR A. HADDAD
LICENSE NO. 31967
STATE OF FLORIDA
PROFESSIONAL ENGINEER

ELECTRICAL LEGEND, NOTES AND DETAILS

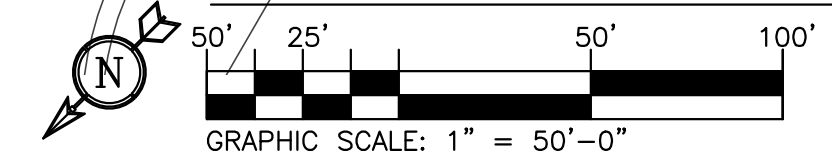
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SITE PLAN - ELECTRICAL



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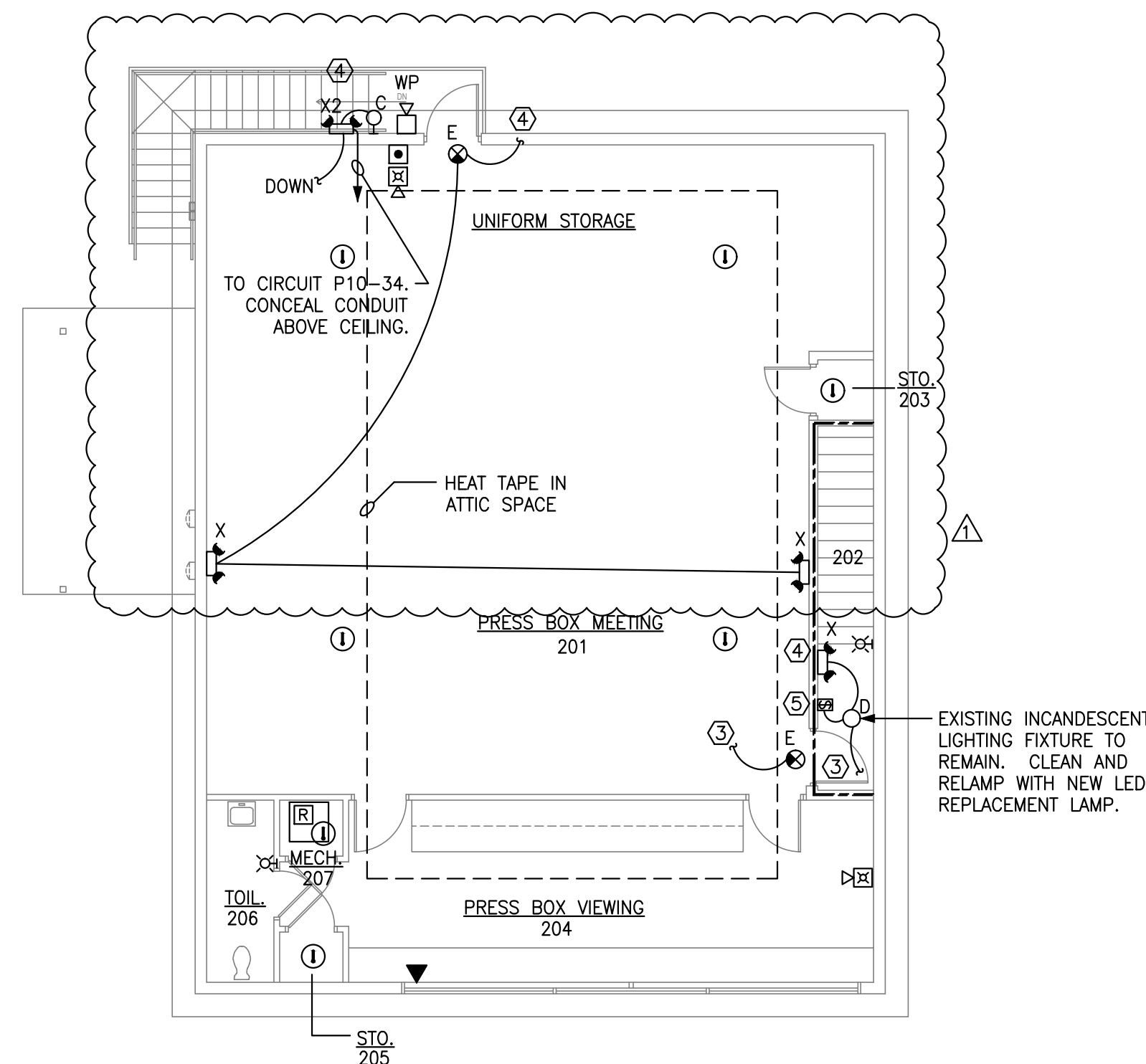
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 STATE OF FLORIDA
 PROFESSIONAL ENGINEER

SITE PLAN - ELECTRICAL

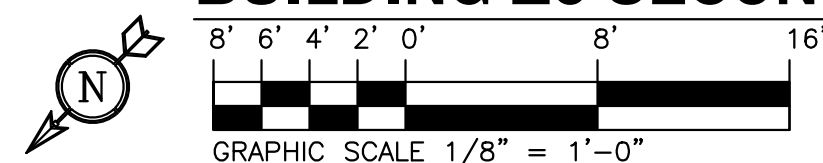
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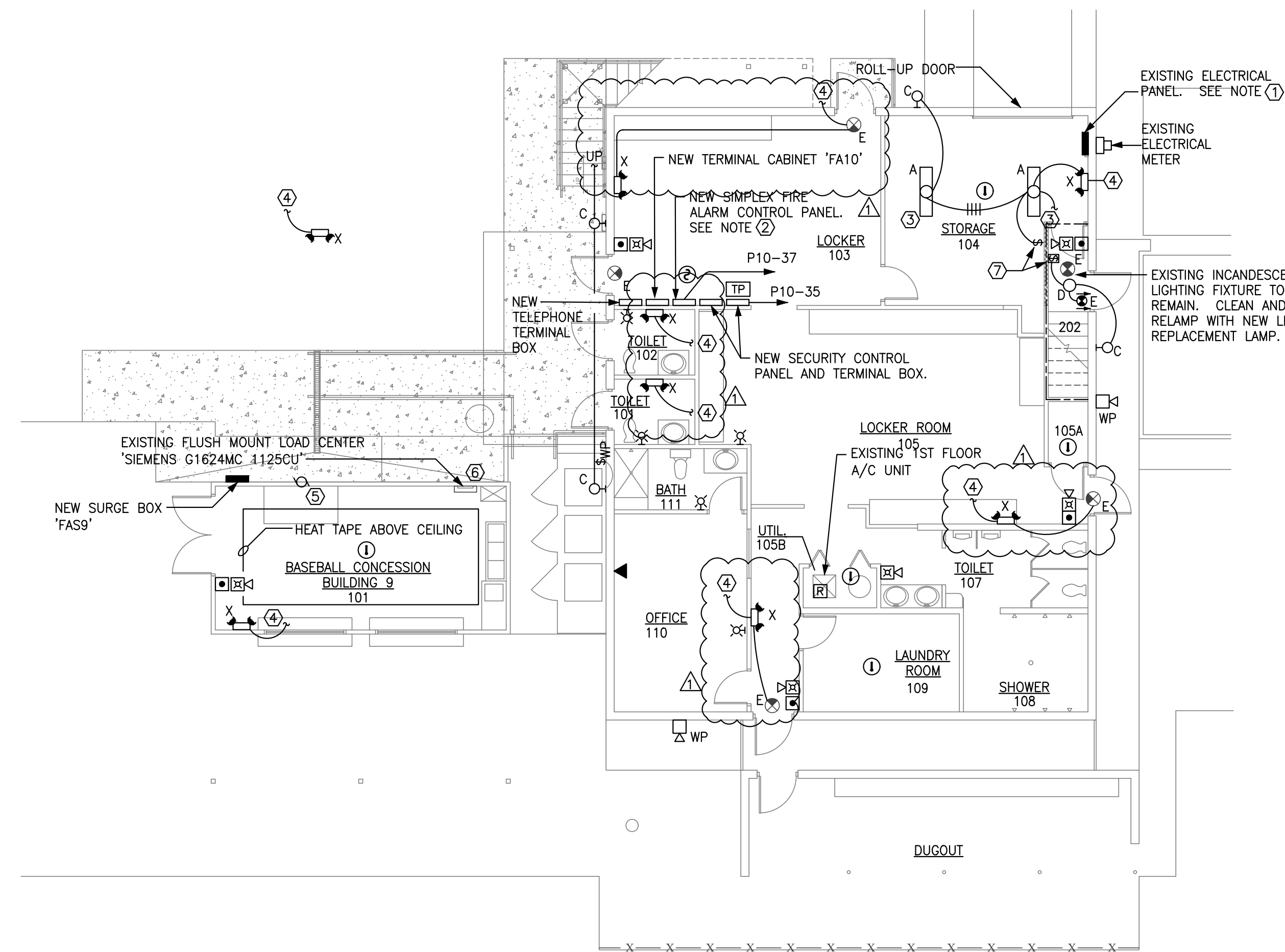


BUILDING 10 SECOND FLOOR PLAN - ELECTRICAL

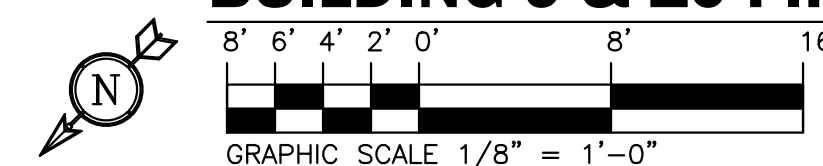


NOTES:

- ① REPLACE EXISTING LOAD CENTER WITH NEW PANEL P10. SEE PANEL SCHEDULE FOR DESCRIPTION.
- ② SEE FIRE ALARM RISER DIAGRAM.
- ③ REPLACE EXISTING INCANDESCENT FIXTURE WITH NEW LED FIXTURE. RECONNECT TO EXISTING LIGHTING CIRCUIT.
- ④ CONNECT NEW EMERGENCY LIGHTING FIXTURE TO LOCAL UNSWITCHED ROOM LIGHTING CIRCUIT WITH 3 #12 IN 1/2" CONDUIT.
- ⑤ EXHAUST FAN TO BE REMOVED. REMOVE SWITCHING AND ALL ASSOCIATED CONDUCTORS BACK TO PANEL. LABEL BREAKER AS SPARE.
- ⑥ PROVIDE NEW TYPED DIRECTORY.
- ⑦ CONNECT TO EXISTING LIGHTING CIRCUIT. 3 #12 WIRES IN 1/2" CONDUIT.



BUILDING 9 & 10 FIRST FLOOR PLAN - ELECTRICAL



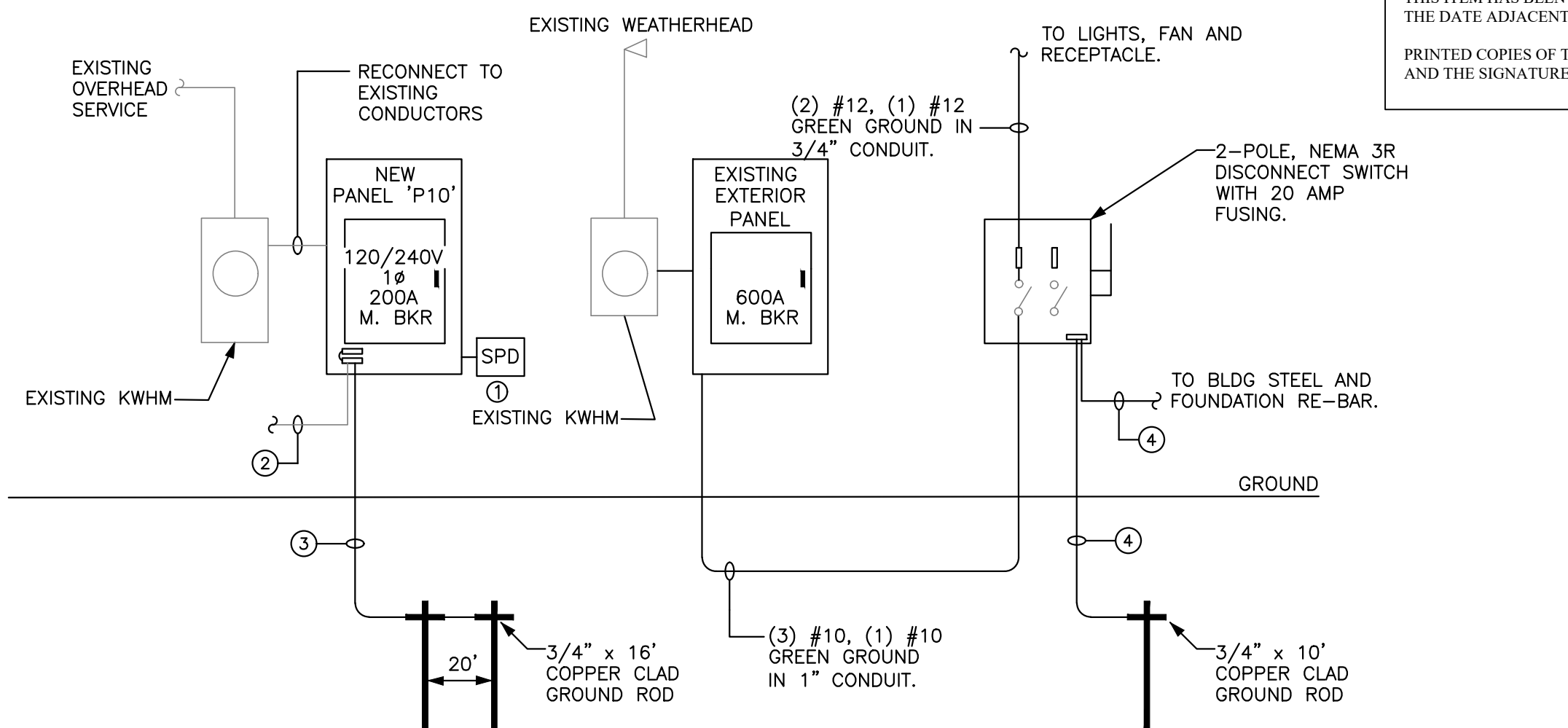
NEW PANEL 'P10'																	
SURFACE MTD. CIRCUIT BREAKER TYPE				120/240 VOLTS 3 PHASE 4 WIRE ③													
SQ-D TYPE NQDD				200 AMP MAIN CIRCUIT BREAKER													
CKT NO.	DESIGNATION	CIRCUIT			KVA	CIRCUIT BREAKER	CIRCUIT			DESIGNATION	CKT NO.						
		WIRE	GND	COND			TRIP	TRIP	POLE			COND	GND	WIRE			
1	1ST FL AC-1				2	50				60	2				COND. UNIT. NO.1	2	
3																4	
5	2ND FL AC-2				2	50				60	2				COND. UNIT. NO.2	6	
7																8	
9	EXISTING CIRCUIT				2	30				30	2				EXISTING CIRCUIT.	10	
11																12	
13	EXISTING CIRCUIT				1	20				20	1				EXISTING CIRCUIT.	14	
15	EXISTING CIRCUIT				1	20				20	1				EXISTING CIRCUIT.	16	
17	EXISTING CIRCUIT				1	20				20	1				EXISTING CIRCUIT.	18	
19	EXISTING CIRCUIT				1	20				20	1				EXISTING CIRCUIT.	20	
21	EXISTING CIRCUIT				1	20				20	1				EXISTING CIRCUIT.	22	
23	EXISTING CIRCUIT				1	20				20	1				EXISTING CIRCUIT.	24	
25	EXISTING CIRCUIT				1	20				20	1				EXISTING CIRCUIT.	26	
27	EXISTING CIRCUIT				1	20				20	1				EXISTING CIRCUIT.	28	
29	EXISTING CIRCUIT				1	20				20	1				EXISTING CIRCUIT. GFI	30	
31	SPARE				1	20				20	1				EXISTING CIRCUIT. GFI	32	
33	SPARE				1	20				0.9	20	1	1/2	12	12	EXTERIOR WALKWAY LTG	34
35	SECURITY PANEL	12	12	3/4	1	20	0.4			20	1				SPARE	36	
37	FIRE ALARM CONTROL PNL	12	12	3/4	1	20	0.4			20	1				SPARE	38	
39	SPACE									20	1				SPARE	40	
41	SPACE									20	1				SPARE	42	
TOTAL KVA										10,000 AMP, RMS, SYMMETRICAL SHORT CIRCUIT CURRENT RATING							

PANEL NOTES

- ① PROVIDE LOCK AND PAINT RED.
- ② PROVIDE GFI BREAKER.
- ③ TRACE ALL CIRCUITS AND PROVIDE UPDATED PANEL DIRECTORY THAT ACCURATELY INDICATES TYPE AND LOCATION OF LOADS. EXAMPLE: "RECEPTACLE ROOM 202". DO NOT LABEL BREAKERS AS "EXISTING CIRCUIT".

KEYED RISER NOTES:

- ① SURGE PROTECTOR-APT# TE-01XDS-154XA, SURFACE MOUNT.
- ② #2 GND IN 3/4" PVC CONDUIT TO METALLIC COLD WATER SERVICE ENTRANCE, PROVIDE U.L. LISTED BONDING CLAMP ON WATER PIPE.
- ③ #2 GND IN 3/4" PVC CONDUIT TO 3/4" DIA. X 10' COPPER CLAD STEEL GROUND RODS.
- ④ #8 GND IN 1/2" PVC CONDUIT.



NOT TO SCALE

NEW POWER RISER DIAGRAM

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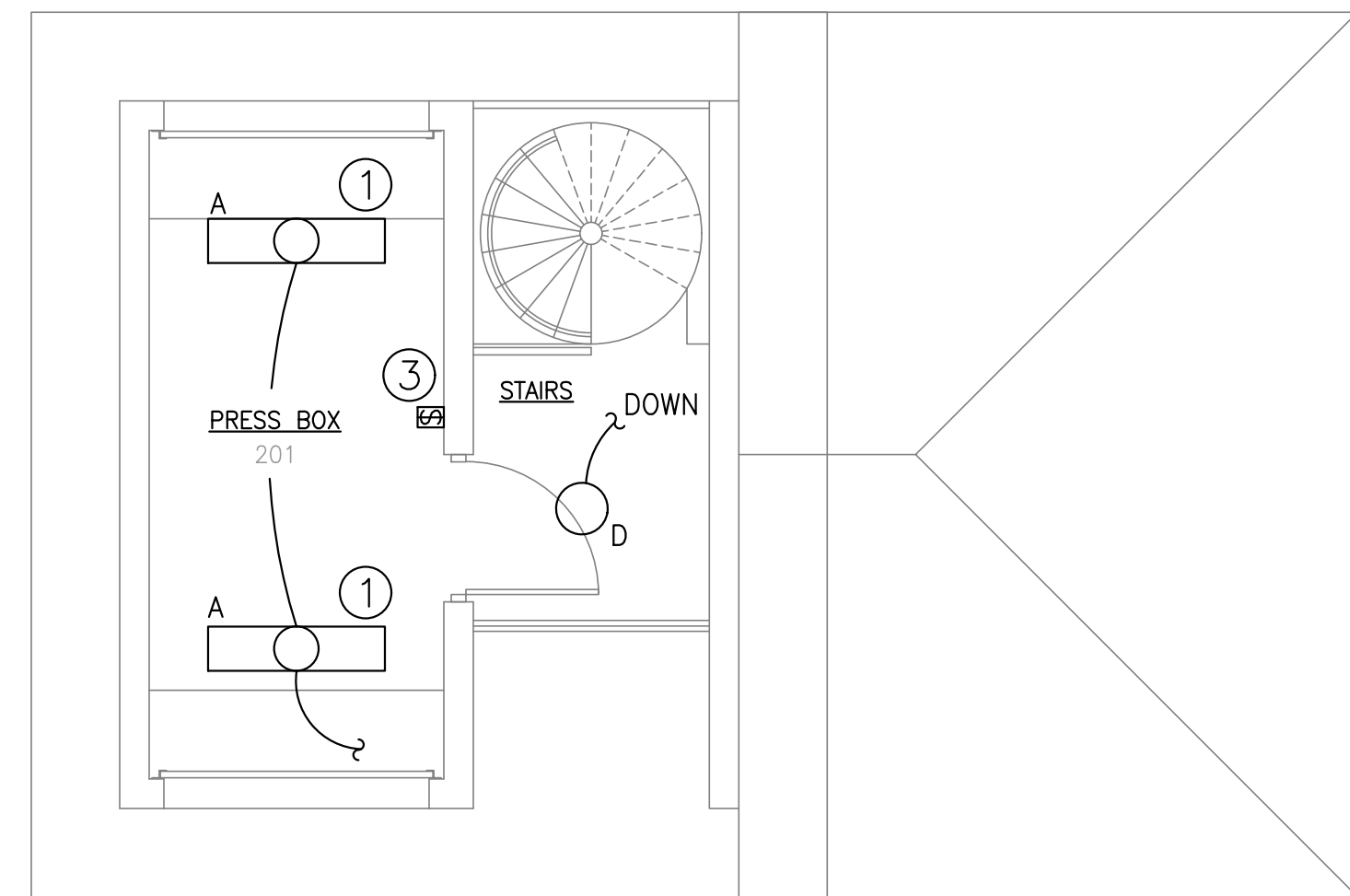
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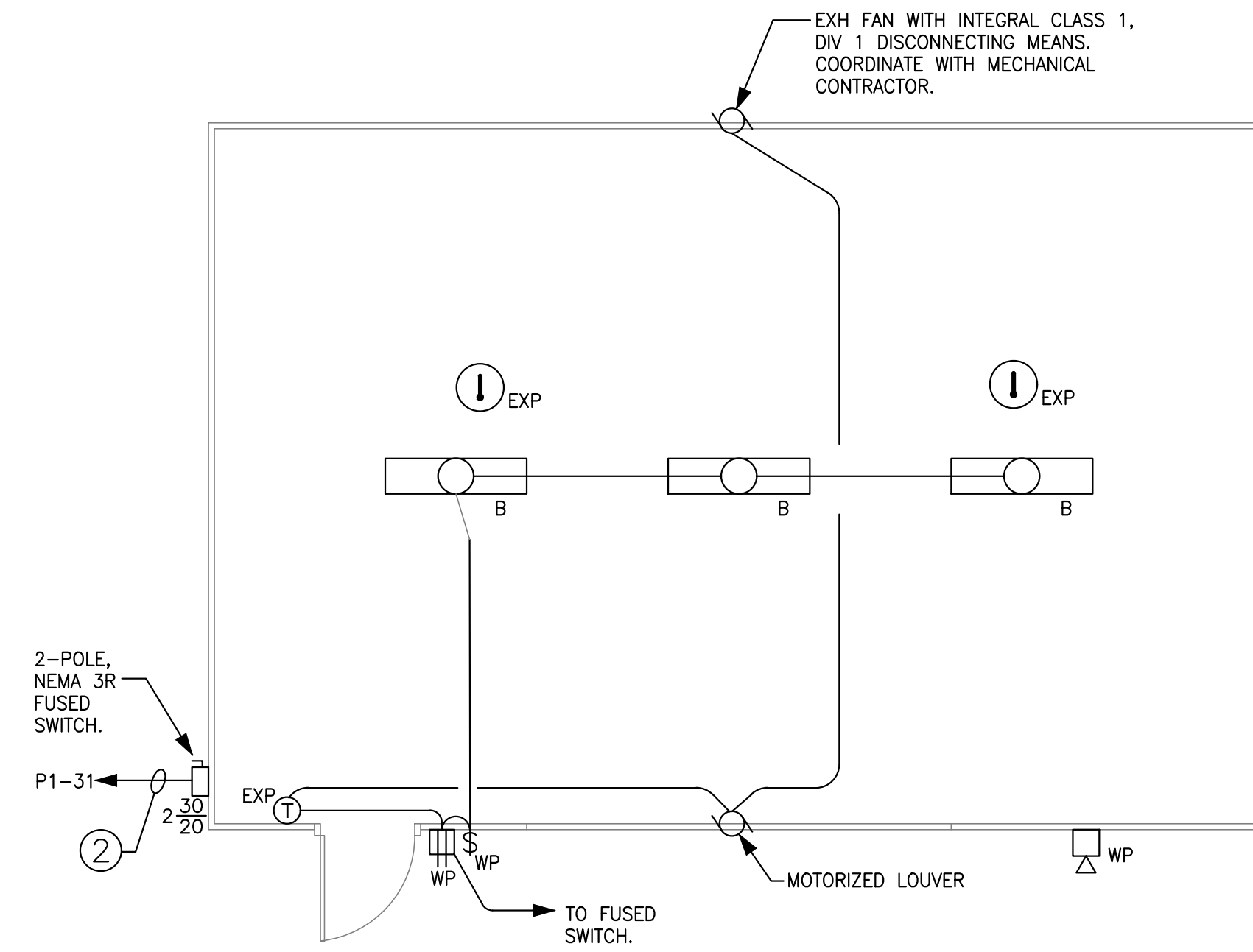
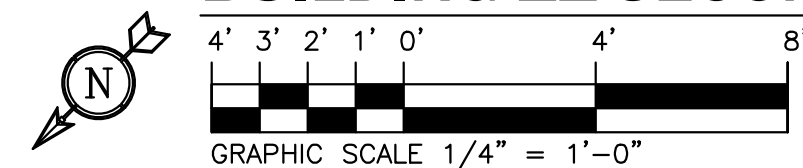
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 PROFESSIONAL ENGINEER

BUILDING 9 & 10
 1ST FLOOR AND
 BUILDING 10 2ND
 FLOOR PLAN -
 ELECTRICAL
 DATE MAY 13, 2020
 D.B. RS
 C.B. NAH
 JOB NO. 15054

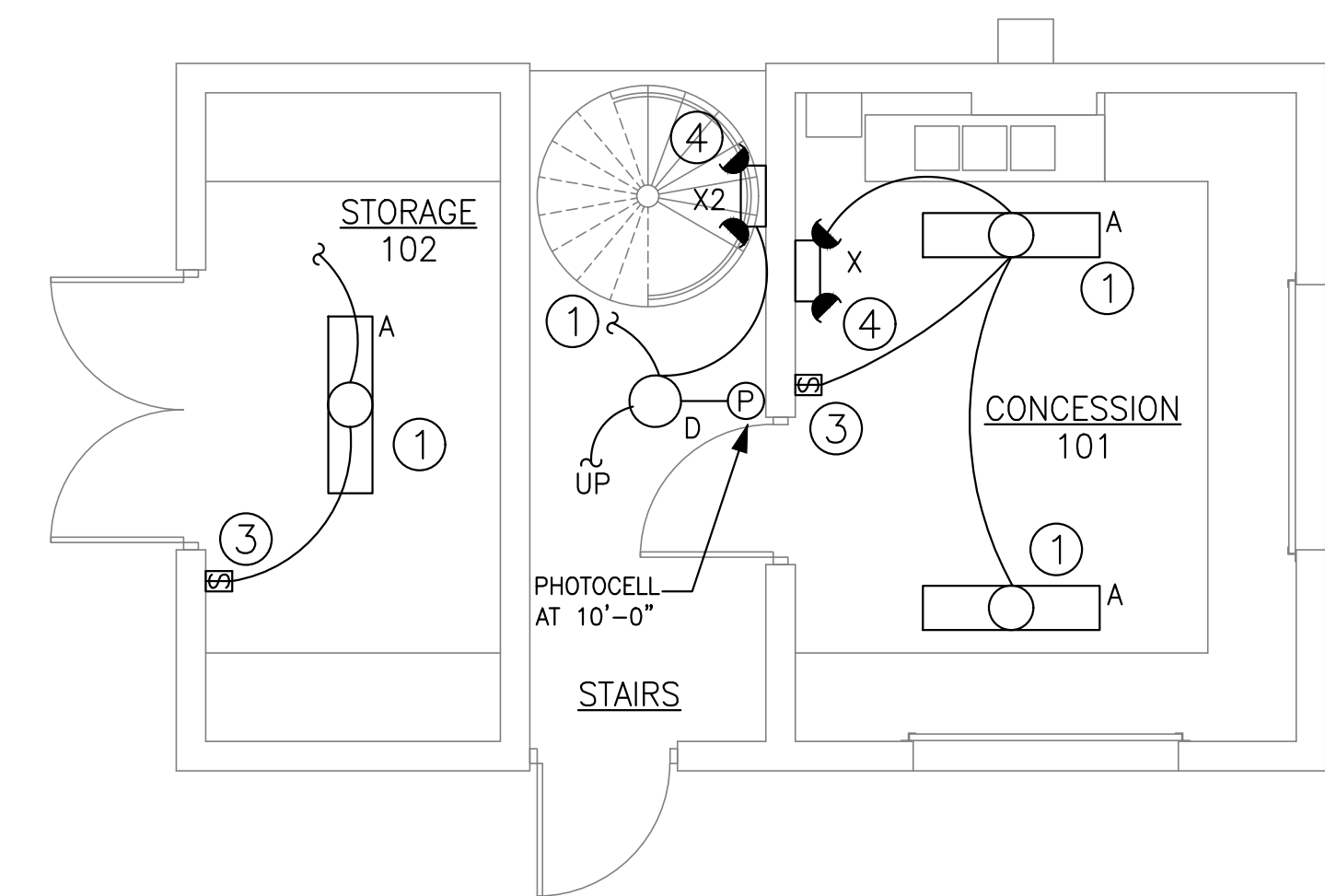
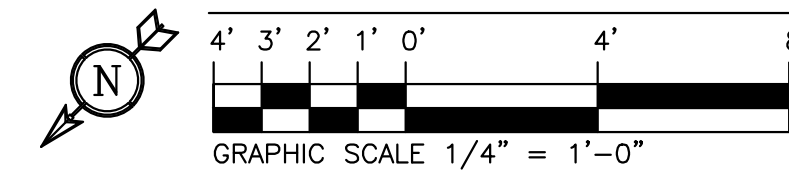
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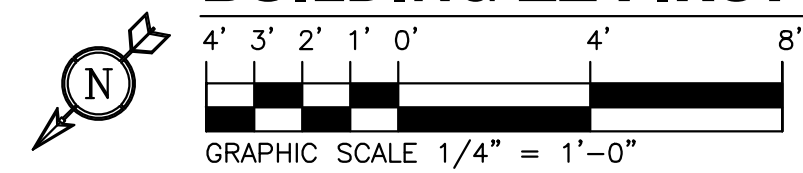
BUILDING 11 SECOND FLOOR PLAN - ELECTRICAL



NEW LAWN STORAGE FLOOR PLAN - ELECTRICAL



BUILDING 11 FIRST FLOOR PLAN - ELECTRICAL



LIGHTING FIXTURE SCHEDULE									
TYPE	MANUFACTURER	CATALOGUE NUMBER	LIGHT SOURCE				VOLTS	MOUNTING HEIGHT	REMARKS
			TYPE/TEMP	WATTS	LUMENS	QUAN.			
A	METALUX	4SLWP-4040-ND-UNV	4000K	40	4000	-	120/277	CEILING	SURFACE MOUNTED LED WRAPAROUND
B	DECO	DWX-LED-45-4000K-UNV	4000K	45	4050	-	120/277	CEILING	LED CLASS 1, DIV 2 IP66 (5)
C	LUMARK	XTOR3BWPC1	4000K	26	2284	-	120	12	LED WALL PACK - PHOTOCELL
D	DECO	D534-LED-30-47-UNV	4700K	30	3810	-	120/277	CEILING	SURFACE LED
E	EXITRONIX	502WB-WH-DR-DL-AT-M				-	120/277	7'-6"	LED EXIT SIGN (SINGLE OR DOUBLE FACE AS REQUIRED)
X	EMERGI-LITE	EL-2-LED	-	3.6	-	-	120	7'-6"	2-HEAD EMERGENCY UNIT
X2	EMERGI-LITE	W-SV118-2-LA	-	4.0	-	-	120	7'-6"	2-HEAD EMERGENCY UNIT WET LABELED

NOTES

- REMOVE EXISTING FLUORESCENT FIXTURE AND REPLACE WITH NEW SURFACE MOUNTED VAPORTIGHT LED. RECONNECT TO EXISTING CONDUCTORS (TYPICAL).
- EXTEND 1" BELOW GRADE TO PANEL 'P10' WITH (2)#8 AND (1)#8 GREEN GROUND. REDUCE CONDUCTOR TO #12 AT STORAGE BUILDING.
- REMOVE EXISTING TOGGLE SWITCH AND REPLACE WITH NEW WALL MOUNTED OCCUPANCY SENSOR AND COVERPLATE. RECONNECT TO EXISTING CONDUCTORS.
- CONNECT NEW EMERGENCY LIGHTING FIXTURE TO LOCAL UNSWITCHED ROOM LIGHTING CIRCUIT.

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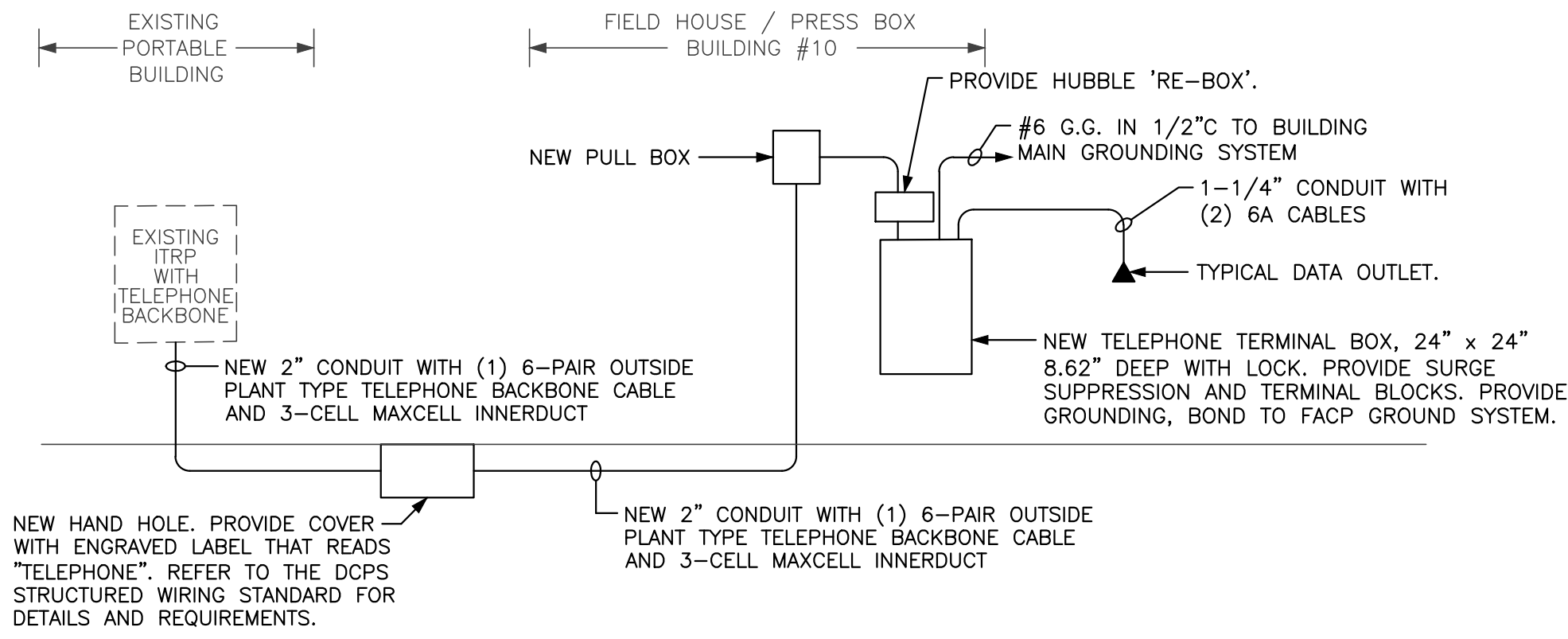
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BUILDING 11 1ST 2ND FL. AND STORAGE FLOOR PLAN - ELECTRICAL

DATE: APRIL 22, 2020
 D.B. RS
 C.B. NAH
 JOB NO. 15054

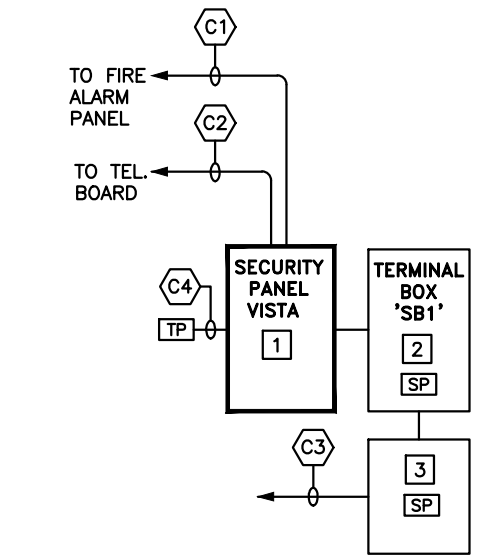
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E3.2



NOT TO SCALE

TELEPHONE RISER DIAGRAM



SECURITY RISER DIAGRAM
NOT TO SCALE

LEGEND
[SP] SURGE PROTECTOR.

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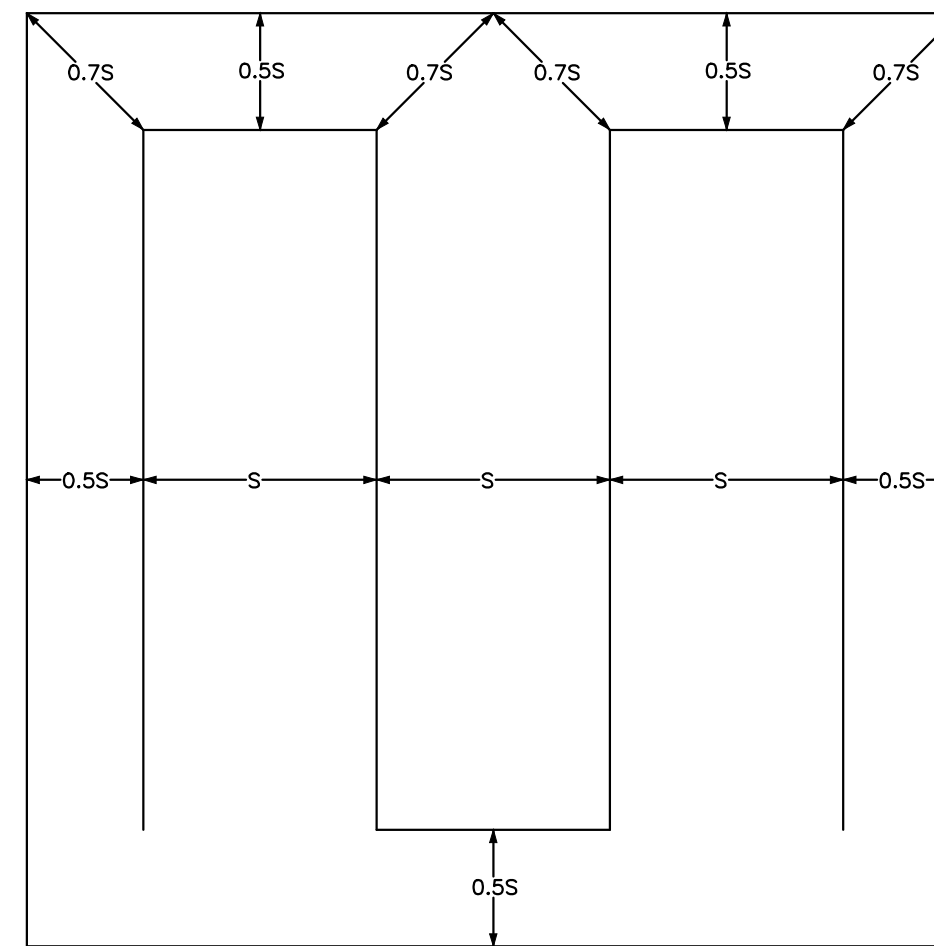
SECURITY RISER DIAGRAM

CABLE/CONDUIT SCHEDULE

- (ALL SECURITY CABLES TO BE INSTALLED IN CONDUIT)
- (1) 3/4" C. WITH (2) #18 AWG, 2-CONDUCTOR CABLES - 1 FOR ALARM / 1 FOR TROUBLE
 - (2) 4-PAIR, CATEGORY 6A CABLE IN 1-1/4" CONDUIT TO TELEPHONE BOARD. PROVIDE CONNECTIONS TO (2) SEPARATE PHONE LINES. PROVIDE DLM MODULES.
 - (3) #12 AWG POWER WIRES IN 1/2" C. TO BUILDING ELECTRICAL PANEL. PROVIDE (1) 1-POLE, 20 AMP CIRCUIT BREAKER AT PANELBOARD.
 - (4) 4-CONDUCTOR, #18 AWG CABLE-BELDON #8489 OR 4-CONDUCTOR, #16 AWG CABLE-BELDON #8620 IN 1" C. REFER TO SPECIFICATIONS FOR CABLE DISTANCE LIMITATIONS.

CABINET SCHEDULE

- [1] SECURITY CONTROL PANEL, ADEMCO #VISTA-128FBP. PROVIDE LINE VOLTAGE SURGE PROTECTOR, EDCO #FAS-1204C.
- [2] NEMA-1, HINGED WITH LATCH, TERMINAL BOX. PROVIDE THE FOLLOWING: (QUANTITIES AS REQUIRED)
 - * 3/4" PAINTED PLYWOOD FASTENED TO BACK OF BOX
 - * 8 ZONE REMOTE POINT MODULES, ADEMCO #4208SN
 - * 2 ZONE REMOTE POINT MODULES, ADEMCO #4190SN
 - * ISOLATION/EXTENDER MODULE, ADEMCO #4287 (ALL LOCATED BY CONTROL PANEL)
 - * TERMINAL STRIPS, NEWARK PART #31F2436 OR #31F2440.
 - * SURGE PROTECTORS FOR LINE VOLTAGE, EDCO #FAS-1204C. PROVIDE 6.62" DEEP BOX SIZED TO HOUSE ALL EQUIPMENT BUT NOT SMALLER THAN 30"HIGHX20"DEEP, HOFFMAN #A-30N20BLP WITH LATCH KIT. PROVIDE CONNECTION FOR SUPPLIED DEALER MODULE #5140DLM. PROVIDE LABEL ON ENCLOSURE COVER TO INDICATE ZONES SERVED.
- [3] AUXILIARY POWER SUPPLY, REGULATED 12V. DC ALTRONIX #SMP5PM-CTX WITH 12V, 7AMP/HOUR, SEALED LEAD ACID OR GEL BATTERIES IN NEMA-1 ENCLOSURE. PROVIDE LINE VOLTAGE SURGE PROTECTOR EDCO #FAS-1204C.



NOTES:

① S = LISTED SPACING MULTIPLIED BY HEIGHT MULTIPLIER (SEE HEAT TAPE TEMPERATURE REQUIREMENTS)

HEAT TAPE TEMPERATURE REQUIREMENTS (*)

ALARM TEMPERATURE	MAX AMBIENT TEMPERATURE (**)	LISTED SPACING (S)	HEAT TAPE COLOR
150°F (69°C)	100°F (38°C)	50 FT.	RED
190°F (88°C)	150°F (66°C)	50 FT.	WHITE
220°F (105°C)	175°F (79°C)	25 FT.	GREY
280°F (138°C)	200°F (93°C)	50 FT.	PURPLE
356°F (180°C)	221°F (105°C)	50 FT.	BLUE

* HEAT TAPE LISTED TEMPERATURE/SPACING AND COLOR BASED ON PROTECTOWIRE(C) LINEAR HEAT DETECTOR TYPE EPC.

** 72 NFPA REQUIRES THE MINIMAL TEMPERATURE DIFFERENCE BETWEEN ALARM TEMPERATURE AND AMBIENT TEMPERATURE OF 20°F(11°), HOWEVER SELECTION OF HEAT TAPE SHALL BE BASED ON THE LOWEST POSSIBLE MAX AMBIENT TEMPERATURE TO MINIMIZE RESPONSE TIME. CONTRACTOR IS RESPONSIBLE TO MEASURE AMBIENT TEMPERATURE AND SUBMIT SELECTED HEAT TAPE TO BE USED FOR APPROVAL AT EACH NOTED LOCATION ON DRAWINGS.

HEAT DETECTOR SPACING REDUCTION BASED ON CEILING HEIGHT

CEILING HEIGHT ABOVE		UP TO AND INCLUDING		MULTIPLY LISTED SPACING BY
m	ft	m	ft	
0	0	3.05	10	1.00
3.05	10	3.66	12	0.91
3.66	12	4.27	14	0.84
4.27	14	4.88	16	0.77
4.88	16	5.49	18	0.71
5.49	18	6.10	20	0.64
6.10	20	6.71	22	0.58
6.71	22	7.32	24	0.54
7.32	24	7.93	26	0.46
7.93	26	8.54	28	0.40
8.54	28	9.14	30	0.34

NOT TO SCALE

HVAC SCHEDULE

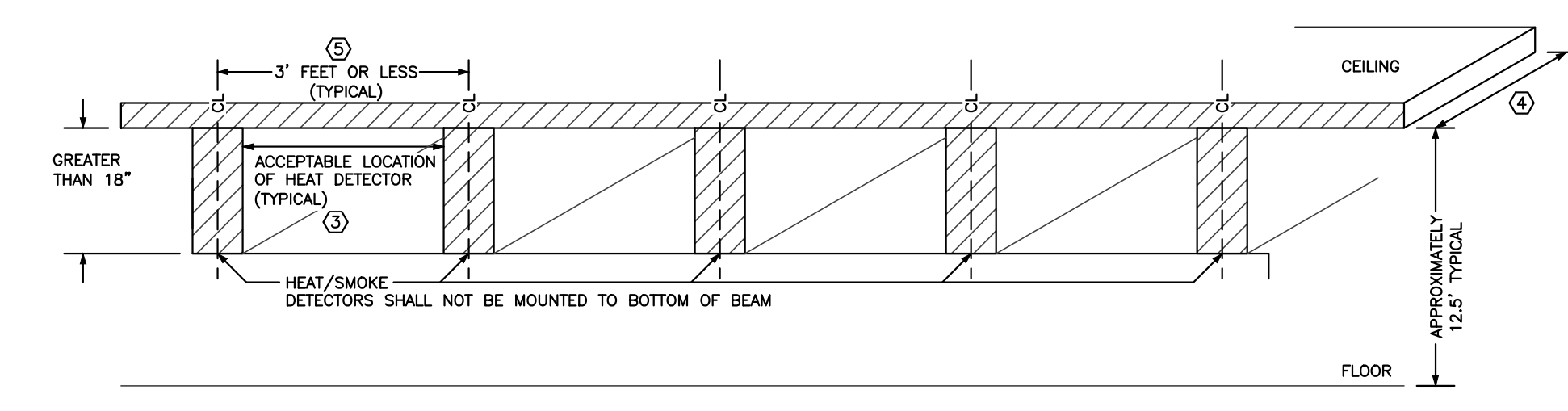
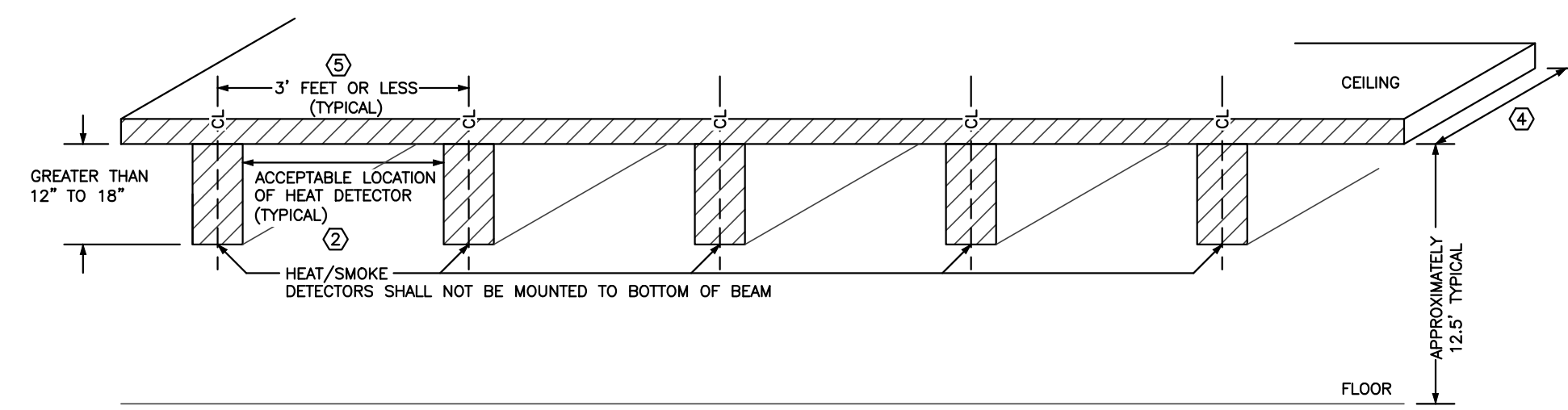
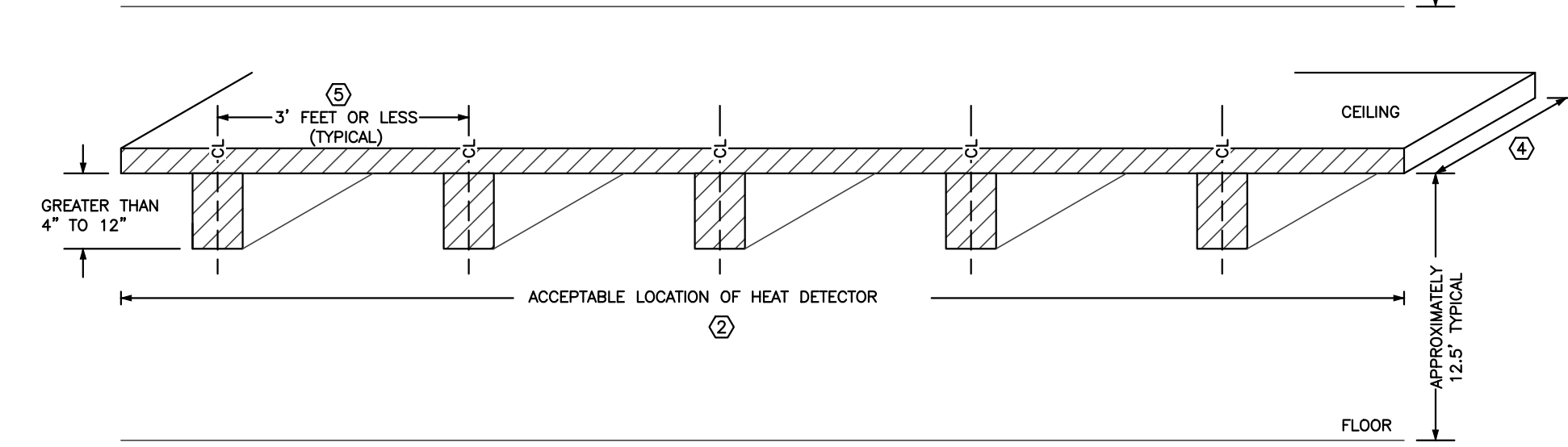
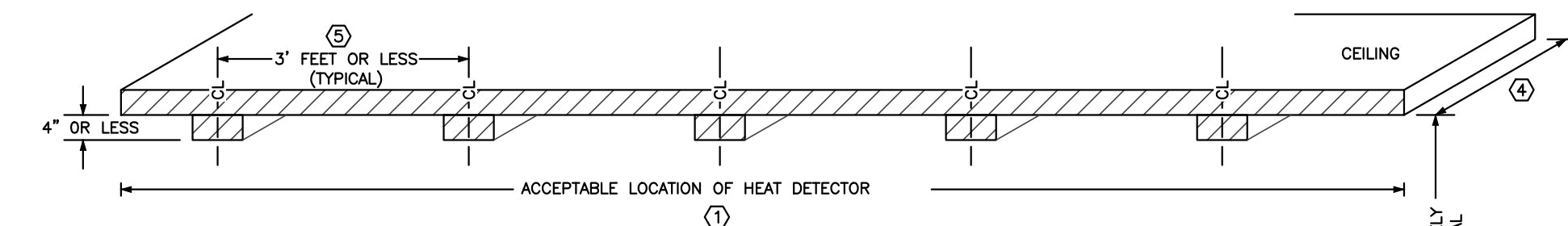
FISH BUILDING No.	FISH ROOM No.	FISH ROOM NAME	AHU No.	CFM	AREA/S SERVED S= SINGLE / M= MULTIPLE
10	-	1ST FL MECH CLOSET	1	*	M
10	-	2ND FL MECH CLOSET	2	*	M

* CFM SHALL BE PROVIDED BY THE CONTRACTOR THRU TEST AND BALANCE REPORT.

HVAC SCHEDULE

NOT TO SCALE

HEAT TAPE AND HEAT DETECTOR SPACING REQUIREMENTS

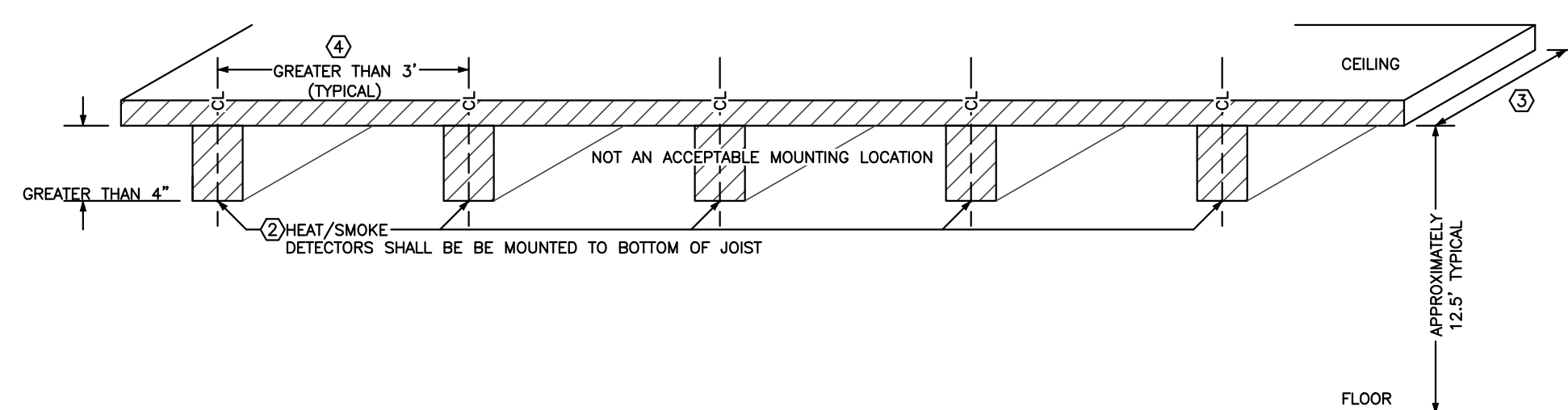
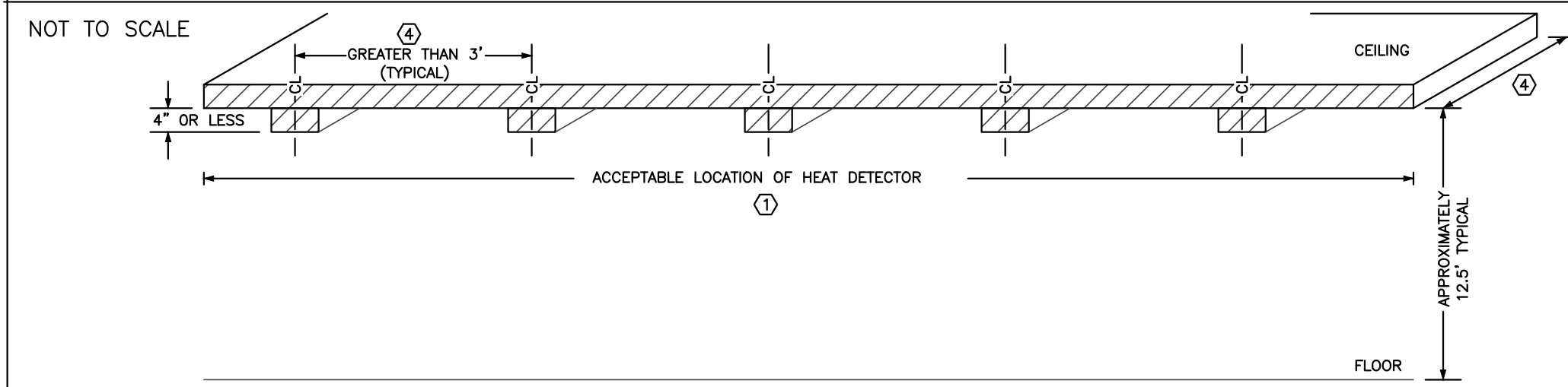


HEAT DETECTOR SPACING

- ① 25.2' BETWEEN HEAT DETECTORS *CEILING CONSIDERED SMOOTH TYPE CEILING (30' X HEIGHT MULTIPLIER 0.84) 12.6' FROM WALL
- ② 16.8' BETWEEN HEAT DETECTORS *2/3 SPACING REQUIRED (2/3 TIMES 30' X HEIGHT MULTIPLIER 0.84) 8.4' FROM WALL
- ③ EACH SPACE BETWEEN BEAM SHALL BE TREATED AS A SEPARATE AREA AND REQUIRE A HEAT DETECTOR.
- ④ PLACEMENT OF HEAT DETECTORS ALONG BEAM SPAN SHALL BE IN ACCORDANCE WITH SMOOTH CEILING SPACING REQUIREMENTS.
- ⑤ BEAM CONSTRUCTION DEFINED WHEN SPACING IS 3 FEET OR LESS FROM CENTERLINE TO CENTERLINE.

NOT TO SCALE

EXPOSED CEILING (<14 FEET) WITH VARIOUS BEAM HEIGHT CONSTRUCTIONS



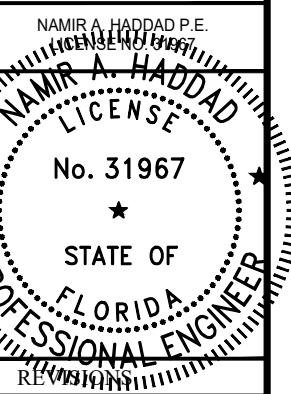
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HEAT DETECTOR SPACING

- ① 25.2' BETWEEN HEAT DETECTORS *CEILING CONSIDERED SMOOTH TYPE CEILING (30' X HEIGHT MULTIPLIER 0.84) 12.6' FROM WALL
- ② 12.6' BETWEEN HEAT DETECTORS *1/2 SPACING REQUIRED (1/2 TIMES 30' X HEIGHT MULTIPLIER 0.84) 6.3' FROM WALL
- ③ PLACEMENT OF HEAT DETECTORS ALONG BEAM SPAN SHALL BE IN ACCORDANCE WITH SMOOTH CEILING SPACING REQUIREMENTS.
- ④ SOLID JOIST CONSTRUCTION DEFINED WHEN SPACING IS GREATER THAN 3 FEET FROM CENTERLINE TO CENTERLINE.

EXPOSED CEILING (<14 FEET) WITH VARIOUS SOLID JOIST HEIGHT CONSTRUCTIONS

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY NAMIR A. HADDAD ON THE DATE ADJACENT TO THE SEAL.
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FIRE ALARM NOTES & DETAILS AND SECURITY RISER DIAGRAM

DATE: APRIL 22, 2020
D.B. RS
C.B. NAH
JOB NO. 15054

PERMIT SET

E4.1

FIRE ALARM SYSTEM NOTES:

- PROVIDE DETAILED SHOP DRAWINGS AND PRODUCT DATA SUBMITTALS. PRODUCT DATA SHALL BE SUBMITTED ON ALL EQUIPMENT, MATERIALS, AND PARTS PLANNED TO BE UTILIZED. EACH PRODUCT DATA PAGE SHALL BE MARKED TO INDICATE EVERY ITEM PROPOSED FOR USE. PAGES WITHOUT ITEMS CALLED OUT SHALL NOT BE ACCEPTED. SHOP DRAWINGS SHALL BE DETAILED AND INCLUDE ALL EQUIPMENT LOCATIONS, DEVICE LOCATIONS, AND ROUTING OF BOTH TRUNK AND BRANCH PATHWAYS. EXISTING AND NEW PATHWAYS SHALL BOTH BE IDENTIFIED, INCLUDING CONDUIT SIZE AND MATERIAL (PVC, EMT, ETC.) TYPE AND QUANTITY OF WIRES SHALL BE CLEARLY IDENTIFIED. SHOP DRAWINGS SHALL INCLUDE COMPREHENSIVE WIRING DIAGRAMS AND WIRING TERMINATION DETAILS. THE SHOP DRAWINGS SHALL ALSO PROVIDE A FIRE ALARM DEVICE SCHEDULE INDICATING THE TYPE AND QUANTITY OF EACH FIRE ALARM DEVICE. SHOP DRAWINGS SHALL BE SUBMITTED TO APPLICABLE CODE ENFORCEMENT PERSONNEL AND/OR FIRE MARSHALL FOR REVIEW AND APPROVAL AFTER THEY HAVE BEEN APPROVED BY THE EOR AND PRIOR TO INSTALLATION OF A FIRE ALARM SYSTEM PERMIT. APPROVED FIRE ALARM SHOP DRAWINGS SHALL BE KEPT AT THE SITE ALONG WITH THE PERMIT DRAWINGS FOR INSPECTION PURPOSES. UPON COMPLETION OF THE PROJECT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR MODIFYING APPROVED SHOP DRAWINGS AND PRODUCING AS-BUILT DRAWINGS THAT ACCURATELY DEPICT THE ACTUAL FINAL INSTALLATION. THIS INCLUDES FINAL ROUTING, CABLING, EQUIPMENT / DEVICE LOCATIONS, ETC. AS-BUILT DRAWINGS SHALL BE PROVIDED TO THE ENGINEER OF RECORD IN BOTH PDF AND DWG FORMAT.
- PROVIDE MAPS OF SCHOOLS' FLOOR PLANS SHOWING ALL FIRE ALARM DEVICES AND ADDRESSES. DRAWING SCALE SHALL BE 1/16" = 1'-0" PLOTTED ON 11" x 17" SHEETS. ALL NUMBERS AND LETTERS SHALL BE A MINIMUM OF 1/8" HIGH. DRAWINGS SHALL BE FRAMED/PROTECTED WITH PLEXIGLASS AND WALL MOUNTED ON THE NEAR THE FIRE ALARM PANEL. HADDAD ENGINEERING WILL PROVIDE CAD FILES OF SCHOOLS' FLOOR PLANS. THE CONTRACTOR SHALL CHANGE THE DRAWINGS' SCALES, ADD ADDRESSES, MODIFY THE DRAWINGS PER AS-BUILT CONDITIONS, PLOT THE DRAWINGS, AND MOUNT THE FRAMED THE MAP DRAWINGS.
- PROVIDE LABELS FOR ALL FIRE ALARM DEVICES (ONE LABEL FOR EACH FIRE ALARM DEVICE). CONTRACTOR LABELING SHALL BE INDEPENDENT OF ANY LABELING PROVIDED BY SCHOOL PERSONNEL. LABELS SHALL BE CLEARLY VISIBLE FROM THE GROUND AND IDENTIFY IDNET CIRCUIT AND DEVICE ADDRESS. LABELING SHALL ALSO INCLUDE SOURCE OF AC POWER. LABELING ON PULL STATIONS SHALL BE POSITIONED ALLOW FOR VISIBILITY WITH PROTECTIVE COVERS IN PLACE.
- AT COMPLETION OF FIRE ALARM SYSTEM PROGRAMMING, PROVIDE (3) COPIES OF THE PROGRAM PRINT OUT. INCLUDE PRINT OUTS AS PART OF OPERATION AND MAINTENANCE MANUAL.
- PROVIDING THE NECESSARY QUANTITY OF CONTROL PANELS, EXTENDER PANELS, AND OTHER ASSOCIATED HARDWARE AND/OR ACCESSORIES AS REQUIRED TO SUPPORT THE TOTAL NUMBER OF DEVICES.
- ALL FIRE ALARM WIRING SHALL BE COLOR CODED IN ACCORDANCE TO THE FOLLOWING TABLE:

FIRE ALARM WIRING COLOR CODE FUNCTION:	COLOR
NOTIFICATION	2-CONDUCTOR, #14AWG, SOLID, TWISTED, UNSHIELDED (YELLOW JACKET)
RUI/N2 COMMUNICATION	2-CONDUCTOR, #18AWG, SOLID, TWISTED, SHIELDED (RED JACKET)
MAPNET/IDNET	2-CONDUCTOR, #18AWG, SOLID, TWISTED, SHIELDED (RED JACKET)
24vdc POWER	RED-BLACK
RELAY	ORANGE-BROWN
AUDIO	2-CONDUCTOR, #18AWG, SOLID, TWISTED, SHIELDED (BLUE JACKET)
VISUAL/SIGNAL	WHITE-PURPLE #12
ZONE	YELLOW-BLUE #14
- FIRE ALARM SYSTEM COMPONENTS SHALL BE SIMPLEX. CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE WITH THE MANUFACTURER TO PROVIDE SHOP DRAWINGS AND FINAL TESTING. CONTRACTOR WILL BE RESPONSIBLE TO PROVIDE COMPLETE SYSTEM INCLUDING BUT NOT LIMITED TO PANELS, DEVICES, WIRING, CONDUITS, SURGE PROTECTION, BOXES, TESTING AND EQUIPMENT TO FORM COMPLETE OPERABLE FIRE ALARM SYSTEM. FOR EXISTING SYSTEMS, THE CONTRACTOR SHALL COORDINATE WITH THE MANUFACTURER TO PROVIDE ALL REQUIRED UPGRADES TO EXISTING PANEL, INCLUDING ADDITIONAL CARDS, BATTERIES, ETC. ANY NEW NOTIFICATION DEVICES MUST BE SYNCED TO EXISTING NOTIFICATION DEVICES. CONTRACTOR SHALL PROVIDE ALL NECESSARY EQUIPMENT TO ALLOW FOR REQUIRED SYNCING.
- PROVIDE SURGE PROTECTION FOR ALL FIRE ALARM CABLES LEAVING OR ENTERING A BUILDING, EXCLUDING BUILDINGS WITH NON-ADDRESSABLE DEVICES SUCH AS PORTABLES, SHEDS, ETC.
- FIRE ALARM DUCT MOUNTED SMOKE DETECTORS, SHUTDOWN RELAYS, TEST SWITCHES, AND DUCT MOUNTED SMOKE DETECTOR REMOTE INDICATORS ARE SHOWN DIAGRAMMATICALLY. VERIFY EXACT LOCATION AND AIR SAMPLING TUBE REQUIREMENTS FOR EACH AIR HANDLING UNIT PRIOR TO INSTALLATION. SAMPLING TUBES SHALL BE INSTALLED THROUGH THE WIDTH OF THE DUCT, NOT THE DEPTH. SAMPLING TUBES SHALL BE SIZED PER APPLICABLE CODES AND STANDARDS. LOCATE DUCT DETECTOR ON SUPPLY AIR DUCT OF EACH AIR HANDLING UNIT OR ROOF TOP A/C UNIT. WHEN POSSIBLE, LOCATE REMOTE INDICATOR IN THE CORRIDOR OUTSIDE THE ASSOCIATED MECHANICAL ROOM. OTHERWISE, MOUNT IN EASILY VISIBLE LOCATION WITHIN ROOM AS CLOSE AS POSSIBLE TO DOOR. UTILIZE DWYER INSTRUMENTS #475-00-FM TESTER OR EQUAL. PROVIDE REQUIRED TUBES, HOSES & STOPPERS. HEAT DETECTOR DUCT SYSTEMS SHALL BE ACCESSIBLE FOR PROVIDING NEW ACCESS DOORS OR PANELS IN THE DUCTWORK. THE LOCATION OF ALL DETECTORS IN DUCT SYSTEMS SHALL BE PERMANENTLY AND CLEARLY IDENTIFIED AND RECORDED.
- FIRE ALARM DEVICES LOCATION
 - LOCATE SMOKE DETECTORS AT DOUBLE SMOKE DOORS WITHIN 5 FEET OF DOORWAY.
 - LOCATE FIRE ALARM DEVICES IN CLASSROOMS AND FIELD HOUSES AT APPROXIMATE LOCATION TO AVOID CONFLICT WITH ALL WALL CABINETS, MARKER BOARDS, AND WALL MOUNTED EQUIPMENT. LOCATE DEVICES AS REQUIRED TO ACCOMMODATE SPECIFIED MOUNTING HEIGHT.
 - HORN/STROBE DEVICES MUST BE MOUNTED BETWEEN 80" AND 96" A.F.F. LOCATIONS INDICATED MAY BE SHIFTED AS REQUIRED, PROVIDED THAT NO 75 CANDELA DEVICE IS LOCATED MORE THAN 22'-6" FROM EITHER ADJACENT WALL. 110 CANDELA DEVICES MAY NOT BE LOCATED MORE THAN 27' FROM EITHER ADJACENT WALL. CONTRACTOR SHALL BE RESPONSIBLE FOR RELOCATING OR MODIFYING ANY EXISTING FURNISHINGS AS NECESSARY TO COMPLY WITH THESE REQUIREMENTS. COORDINATE WITH PROJECT ENGINEER PRIOR TO PERFORMING ANY WORK ON EXISTING FURNISHINGS.
 - LOCATION OF HEAT DETECTORS SHALL BE MINIMUM OF 6'-0" AWAY FROM HOODS OR STEAM GENERATING EQUIPMENT. HEAT DETECTORS LOCATED NEAR HOODS, KILNS, OR OTHER SIGNIFICANT HEAT GENERATING EQUIPMENT SHALL BE FIXED TEMPERATURE TYPE, RATED FOR 200 DEGREES. INSTALL NON-ADDRESSABLE DEVICES IN PORTABLES, SHEDS, AND FLAMMABLE STORAGE BUILDINGS.
 - ALL FIRE ALARM PULL STATIONS MUST BE LOCATED WITHIN 5 FEET OF DOORS. FOR LOCATIONS SURROUNDED BY WINDOWS AND/OR GLASS, THE CONTRACTOR SHALL CONSTRUCT A CUSTOM BACKPLATE TO MOUNT THE DEVICE TO THE FRAMING. BACKPLATE SHALL BE METAL WITH NO SHARP EDGES. BACKPLATE SHALL BE SIZED TO ACCOMMODATE A STOPPER II COVER. GAUGE OF METAL SHALL BE OF SUFFICIENT THICKNESS TO PROVIDE SECURE/STATIONARY MOUNTING.
 - VISIBLE SIGNAL APPLIANCES ARE REQUIRED TO BE PROVIDED WITHIN 15 FEET OF THE END OF ALL CORRIDORS, INCLUDING INTERSECTIONS AND TEES.
 - THE LOCATION OF THE FIRE ALARM ANNUNCIATOR PANEL SHALL NOT BE CHANGED WITHOUT PRIOR APPROVAL FROM THE DESIGN ENGINEER.
- PROVIDE SHUTDOWN RELAY AT ALL AHU'S AND SUPPLY FANS. ACTIVATION OF FIRE ALARM SYSTEM SHALL SHUT DOWN ALL AHU'S AND SUPPLY FANS. NOT ALL LOCATIONS ARE SHOWN ON THE PLANS. FIELD LOCATE ALL AHU'S AND SUPPLY FANS. EQUIPMENT SHUTDOWN SHALL BE PROGRAMMED TO OPERATE ON A BUILDING BY BUILDING BASIS. CAMPUS-WIDE SHUT DOWN OF EQUIPMENT WILL NOT BE ACCEPTED.
- WHERE FIRE ALARM EQUIPMENT IS REQUIRED, INCLUDING EXPANDER/BOOSTER PANEL LOCATIONS, PROVIDE A SMOKE DETECTOR AT EACH LOCATION.
- PROVIDE AND INSTALL STOPPER II PROTECTIVE COVERS ON ALL MANUAL FIRE ALARM PULL STATIONS.
- THE FACILITY SHALL HAVE AN OPERABLE FIRE ALARM SYSTEM AT ALL TIMES, EXCEPT FOR COORDINATED AND PRESCHEDULED INTERRUPTIONS. FIRE ALARM INTERRUPTIONS SHALL BE LIMITED TO 3 HOURS IN A 24 HOUR PERIOD. FOR FIRE ALARM SYSTEMS OUT OF SERVICE LONGER THAN 3 HOURS, PROVIDE AN APPROVED FIRE WATCH. FIRE WATCH INDIVIDUAL SHALL BE EXPERIENCED IN HANDLING EMERGENCIES, PROFICIENT IN THE USE OF FIRE EXTINGUISHERS, AND EQUIPPED WITH A CELL PHONE. FIRE WATCH SHALL HAVE PRIOR APPROVAL FROM APPLICABLE CODE ENFORCEMENT PERSONNEL AND/OR FIRE MARSHALL.
- ALL UNDERGROUND CABLES SHALL BE WEST PENN AQUASEAL CABLES OR EQUAL. PROVIDE GAUGE AND PAIR/CONDUCTOR COUNT PER MANUFACTURER REQUIREMENTS.
- PROVIDE ALL CONNECTIONS REQUIRED BETWEEN ACCESS CONTROL/SECURITY SYSTEMS AND THE FIRE ALARM SYSTEM. FINAL INSTALLATION SHALL COMPLY WITH ALL APPLICABLE LIFE SAFETY CODES.
- PROVIDE NEW SERVICE OPENINGS IN ALL AIR DUCTS ADJACENT TO EACH FIRE DAMPER, SMOKE DAMPER, AND DUCT SMOKE DETECTOR.
 - ACCESS FOR FIRE AND SMOKE DAMPERS SHALL BE LARGE ENOUGH TO PERMIT INSPECTION AND MAINTENANCE OF THE DAMPER AND ITS OPERATING PARTS. ACCESS POINTS SHALL BE PERMANENTLY IDENTIFIED ON THE EXTERIOR BY A LABEL HAVING LETTERS NOT LESS THAN 0.5 INCH (12.7 MM) IN HEIGHT READING: FIRE/SMOKE DAMPER, SMOKE DAMPER, OR FIRE DAMPER. ACCESS DOORS IN DUCTS SHALL BE TIGHT FITTING AND SUITABLE FOR THE REQUIRED DUCT CONSTRUCTION.
 - SMOKE DAMPERS SHALL CLOSE UPON ACTUATION OF A LISTED SMOKE DETECTOR OR DETECTORS INSTALLED IN ACCORDANCE WITH SECTIONS 907.10 AND 907.11 OF THE FLORIDA BUILDING CODE AND SECTION 607 OF THE MECHANICAL FLORIDA BUILDING CODE.
 - WHEN REQUIRED, LOCATE REMOTE INDICATORS IN CORRIDORS.
 - A STATE LICENSED MECHANICAL CONTRACTOR SHALL BE UTILIZED TO PERFORM ALL MODIFICATIONS OR INSTALLATIONS RELATED TO DUCTWORK OR MECHANICAL EQUIPMENT.
- PROVIDE WIRING IN CONDUIT, TRANSFORMERS, RELAYS AND ALL REQUIRED MATERIALS TO CONNECT SMOKE DAMPERS TO AHU CONTROL CIRCUIT OR FIRE ALARM SYSTEM. AHU "ON" SHALL OPEN SMOKE DAMPERS. SHUTTING DOWN AHU SHALL CLOSE DAMPERS. NEW SYSTEM SHALL MATCH EXISTING SYSTEM WITH USE OF PAM RELAYS AND AUXILIARY POWER. FIELD VERIFY SMOKE DAMPER VOLTAGE, AVAILABLE POWER AT AHU CONTROL CIRCUIT OR MOTOR STARTER, AND LOCATION OF EQUIPMENT. LABEL CEILING GRID WITH IDENTIFIER. IN ADDITION, PROVIDE RED "DOT" STICKERS AT EACH LOCATION TO HELP VISIBILITY.
- CONTRACTOR PERFORMING FIRE ALARM WORK MUST BE QUALIFIED AS REQUIRED BY FLORIDA STATUTES CHAPTER 489 AND RULE CHAPTER 616G OF FLORIDA ADMINISTRATIVE CODE. DESIGNATED PERSONNEL MUST HAVE FIRE ALARM SYSTEM AGENT IDENTIFICATION CARD IN THEIR POSSESSION AT ALL TIMES.

- ALL FIRE ALARM TESTING SHALL BE PERFORMED WHEN NO STUDENTS ARE PRESENT, UNLESS APPROVED OTHERWISE BY SCHOOL PERSONNEL. CONTRACTOR IS REQUIRED TO PROVIDE A TESTING SCHEDULE FOR REVIEW AT LEAST 2 WEEKS PRIOR TO PROPOSED TESTING.
- UPON ACCEPTANCE OF THE NEW FIRE ALARM SYSTEM, ALL EXISTING FIRE ALARM EQUIPMENT, TERMINATIONS, DEVICES, WIRING, AND PATHWAYS SHALL BE REMOVED. WALLS, FLOORS, AND CEILINGS SHALL BE PATCHED, REPAIRED, AND PAINTED TO MATCH SURROUNDING CONDITIONS.
- IN ACCORDANCE WITH SECTION 423.7.6 OF THE FBC, KITCHEN GAS SUPPLIES SHALL BE SHUT OFF BY AN AUTOMATIC FIRE EXTINGUISHING SYSTEM, NOT JUST GAS APPLIANCES SERVED BY THE HOOD. THE SHUTOFF VALVE SHALL BE LOCATED EXTERIOR TO THE BUILDING. THE SHUTOFF VALVE SHALL HAVE A MANUAL RESET. IN ADDITION, NFPA 96 REQUIRES THE ELECTRIC POWER FOR EQUIPMENT BE SERVED BY THE HOOD TO ALSO BE AUTOMATICALLY SHUTOFF UPON ACTIVATION OF THE FIRE EXTINGUISHING SYSTEM. CONNECT KITCHEN HOOD TO FIRE ALARM PANEL. HOOD EXHAUST FANS ARE REQUIRED TO BE STARTED AND SUPPLY FANS SHALL BE SHUT DOWN UPON ACTIVATION OF THE HOOD FIRE PROTECTION SYSTEM. EXHAUST FUNCTIONS OF THE HOOD SHALL BE CONSISTENT WITH MANUFACTURER'S SPECIFICATIONS AND NFPA 96. ACTIVATION OF HOOD FIRE PROTECTION SYSTEM SHALL INITIATE GENERAL ALARM. THE KITCHEN HOOD SYSTEM SHALL OPERATE AS AN INDEPENDENT PRE-ENGINEERED LIFE SAFETY SYSTEM AND SHALL NOT BE CONTROLLED BY THE FIRE ALARM SYSTEM, ENERGY MANAGEMENT SYSTEM, ETC.
- INSTALL NON-ADDRESSABLE DEVICES IN FLAMMABLE STORAGE BUILDING. INSTALL NONADDRESSABLE DEVICES AND SURGE PROTECTION AT MAIN BUILDING. SURGE PROTECTION SHALL BE INSTALLED ON HARD-WIRED SIDE TO PROTECT ELECTRONICS.
- ALL EXISTING SYSTEMS SHALL REMAIN INTACT AND FULLY OPERATIONAL UNTIL ALL NEW SYSTEMS HAVE BEEN TESTED, INSPECTED, AND APPROVED. ONCE APPROVAL HAS BEEN OBTAINED, THE CONTRACTOR SHALL PROCEED WITH DEMOLITION WORK. REMOVE ABANDONED CABLES, CONDUITS, EQUIPMENT, AND DEVICES. REPAIR WALLS AND CEILINGS. ONCE DEMOLITION IS COMPLETE, A PATHWAY RE-INSPECTION BY DCPS CODE ENFORCEMENT IS REQUIRED TO VERIFY PROPER SEALING OF PENETRATIONS AND SAFE COMPLETION OF DEMOLITION. PROVIDE AND INSTALL BLANK COVER PLATES.
- CONTRACTOR SHALL NOTIFY THE DESIGN ENGINEER OF ANY CONCEALED OR UNSUPERVISED SPACES REQUIRING HEAT/SMOKE DETECTION WHICH ARE NOT ALREADY INDICATED ON THE DRAWINGS.

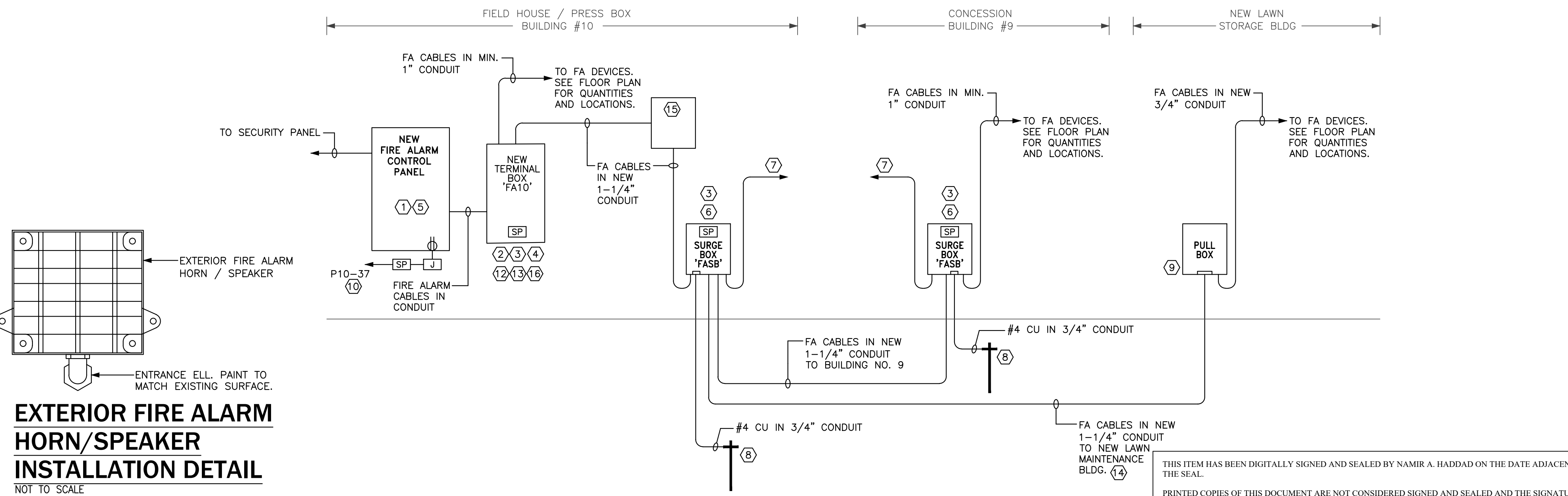
FIRE ALARM SYSTEM INSPECTION NOTES:

- ALL OVERHEAD AND UNDERGROUND PATHWAYS SHALL BE INSPECTED PRIOR TO CABLES BEING PULLED. NO INSPECTIONS WILL BE PERFORMED UNTIL THE FIRE ALARM SYSTEM SHOP DRAWINGS HAVE BEEN SUBMITTED, REVIEWED, AND APPROVED.
- ONCE THE SYSTEM INSTALLATION IS COMPLETE, CONTACT DCPS ELECTRONICS AND REQUEST SCHEDULING OF THE TESTING AND TAGGING. ATTENDEES SHALL INCLUDE MAINTENANCE ELECTRONICS AND THE CONTRACTOR, ALONG WITH HIS SUB-CONTRACTORS. CONTRACTOR LABELING SHALL BE INSTALLED DURING THE TESTING AND TAGGING, IF NOT SOONER. DURING THE TESTING AND TAGGING, DCPS ELECTRONICS SHALL WITNESS THE CONTRACTOR'S TESTING OF THE INITIATION DEVICES. THEY WILL INSTALL THEIR TAGS FOR ALL DEVICES THAT ARE OPERATING PROPERLY.
- THE DEVICE VERIFICATION INSPECTION SHALL BE PERFORMED UPON COMPLETION OF THE TESTING AND TAGGING. ATTENDEES SHALL INCLUDE, THE DESIGN PROFESSIONAL, CODE ENFORCEMENT, THE FACILITIES PROJECT MANAGER, MAINTENANCE ELECTRONICS (OPTIONAL), AND THE CONTRACTOR, ALONG WITH HIS SUB-CONTRACTORS. THIS SHALL SERVE AS THE DESIGN PROFESSIONAL'S SYSTEM ACCEPTANCE TEST. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO HAVE ALL NECESSARY GROUPS PRESENT IN ORDER TO FACILITATE THE INSPECTION. THIS INCLUDES SIMPLEX (FIRE ALARM SYSTEM). ALL SYSTEM CUT-OVERS AND DEVICE SWAP-OUTS SHALL BE COMPLETED PRIOR TO THE INSPECTION START TIME.
- ONCE ALL DEFICIENCIES FROM THE DEVICE VERIFICATION INSPECTION HAVE BEEN CORRECTED, THE SYSTEM ACCEPTANCE TEST SHALL BE SCHEDULED. ATTENDEES SHALL INCLUDE, THE DESIGN PROFESSIONAL, CODE ENFORCEMENT, THE FACILITIES PROJECT MANAGER, MAINTENANCE ELECTRONICS (OPTIONAL), AND THE CONTRACTOR, ALONG WITH HIS SUB-CONTRACTORS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO HAVE ALL NECESSARY GROUPS PRESENT IN ORDER TO FACILITATE THE INSPECTION. THIS INCLUDES SIMPLEX (FIRE ALARM SYSTEM). ALL SYSTEM CUT-OVERS AND DEVICE SWAP-OUTS SHALL BE COMPLETED PRIOR TO THE INSPECTION START TIME.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO BRING ALL REQUIRED TOOLS, LADDERS, TEST EQUIPMENT, ETC. TO ALL INSPECTIONS. REFER TO DCPS CODE ENFORCEMENT'S SOP FOR SPECIFIC REQUIREMENTS.

NEW FIRE ALARM DEVICE COUNT				
FIRE ALARM DEVICE TYPE	BUILDING No. 9 QUANTITY:	BUILDING No. 10 QUANTITY:	LAWN MAINTENANCE STORAGE BLDG:	INDIVIDUAL F.A. DEVICE TOTALS:
HORN/STROBE	1	6	0	7
WP HORN (EXTERIOR)	0	3	1	4
STROBE	0	7	0	7
HEAT DETECTOR	1	10	0	11
HEAT DETECTOR (EXPLOSION PROOF)	0	0	2	2
PULL STATION	1	5	0	6
SMOKE DETECTOR	0	1	0	1
SMOKE DUCT DETECTOR	0	0	0	0
GAS SOLENOID VALVE	0	0	0	0
GAS VALVE RESET SWITCH	0	0	0	0
AC RELAY	0	2	0	2
NEW STAND ALONE F.A.C.P.	0	1	0	1
ALL FIRE ALARM TYPE TOTAL:				41

FIRE ALARM RISER NOTES:

- NEW SIMPLEX 4005 STAND ALONE FIRE ALARM CONTROL PANEL.
- 24" X 16" X 6.62" NEMA-1 BOX. HOFFMAN #A-24N16MP. PROVIDE IDEAL #89-610 STRIPS AND SURGE PROTECTORS. REFER TO SPECIFICATIONS FOR SURGE PROTECTOR MODELS. PROVIDE WITH HOFFMAN #A-122R CYLINDER LOCK KIT FOR ANY ENCLOSURE NOT LOCATED WITHIN A DEDICATED ELECTRICAL OR COMMUNICATION ROOM. LABEL 'FIRE ALARM'. PROVIDE LARGER BOX IF REQUIRED BY SIMPLEX.
- ALL ELECTRONICS SHALL BE PROTECTED BY SURGE PROTECTORS. REFER TO SPECIFICATIONS FOR SURGE PROTECTOR MODELS. ALL SURGE PROTECTORS AND REMOTE FIRE ALARM EQUIPMENT SHALL BE ENCLOSED IN HINGED METAL BOX, NEMA-3R FOR EXTERIOR LOCATIONS.
- INSTALL FIRE ALARM REMOTE MODULES WITH DUPLEX RECEPTACLE. INSTALL SIMPLEX POWER SUPPLY ABOVE FIRE ALARM BOX. PROVIDE (3) #10 WIRES IN 3/4" CONDUIT FROM THE FIRE ALARM BOX TO THE POWER SUPPLY.
- PROVIDE BATTERY BACK-UP.
- 12" X 14" X 5" NEMA-3R BOX. HOFFMAN #ATC12R145, MOUNTED AT 48" ABOVE GRADE (TO CENTER OF ENCLOSURE). PROVIDE SURGE PROTECTORS. REFER TO SPECIFICATIONS FOR SURGE PROTECTOR MODELS. COORDINATE WITH DCPS MAINTENANCE FOR PREFERRED LOCKING MECHANISM. LABEL 'FIRE ALARM'. WHEN FEEDING PORTABLES, FLAMMABLE STORAGE BUILDINGS, ETC., LOCATE SURGE PROTECTORS, MODULES AND TERMINAL BLOCKS IN THE SURGE BOX AT THE ASSOCIATED PERMANENT BUILDING, NOT AT THE REMOTE BUILDING. PROVIDE MINIMUM 12" SERVICE LOOPS.
- PROVIDE #4 GREEN GROUND CONDUCTOR IN 3/4" CONDUIT TO BUILDING'S MAIN PANEL BOARD GROUND BUS BAR.
- 3/4" X 20 FOOT COPPER CLAD GROUND ROD WITH EXOTHERMIC CONNECTION. PROVIDE TEST WELL.
- 6" X 6" X 4" DEEP, NEMA-3R JUNCTION BOX WITH GASKETED COVER (WATER-TIGHT). PROVIDE SURGE PROTECTORS, MODULES, AND FIRE ALARM CABLE TERMINAL BLOCKS IN THE FIRE ALARM SURGE BOX LOCATED AT THE MAIN BUILDING.
- PROVIDE (3) #10 WIRES IN 3/4" CONDUIT AND ALL OTHER REQUIRED MATERIALS TO THE ELECTRICAL PANEL. PAINT CIRCUIT BREAKERS RED. PROVIDE CIRCUIT BREAKER LOOKOUT FOR FACP.
- DIAGRAM INDICATES TYPICAL TERMINAL BOX REQUIREMENTS. CONTRACTOR SHALL COORDINATE WITH SIMPLEX FOR EXACT QUANTITIES REQUIRED. CONTRACTOR SHALL FIELD COORDINATE EXACT LOCATION OF TERMINAL BOXES WITH DCPS ELECTRONICS. PROVIDE ONE SMOKE DETECTOR ABOVE EACH LOCATION.
- 1/2" CONDUIT WILL BE ACCEPTABLE ONLY FOR END-OF-LINE, SINGLE DEVICE, BRANCH PATHWAYS.
- NEW INSTALLATIONS SHALL BE INSTALLED TO MINIMIZE EXPOSED CONDUIT. NEW DEVICES SHALL BE FLUSH MOUNTED WHEN POSSIBLE. NEW CONDUITS SHALL BE CONCEALED WITHIN EXISTING WALLS WHEN POSSIBLE. IF CONDUITS CANNOT BE FISHED DOWN WITHIN WALLS, WALLS SHALL BE CUT TO ALLOW FOR CONCEALMENT OF NEW CONDUIT PATHWAYS. PATCH, REPAIR, AND REPAINT WALLS TO MATCH EXISTING CONDITIONS. EXPOSED CONDUITS WILL ONLY BE ACCEPTABLE ON BLOCK, CONCRETE, OR BRICK WALLS.
- BOND THE GROUND CONDUCTOR ON TERMINAL STRIPS LOCATED AT BOTH THE MAIN BUILDING SURGE BOX AND THE STORAGE BLDG JUNCTION BOX.
- 12" X 14" X 5" DEEP NEMA-3R BOX. HOFFMAN #ATC12R145. PROVIDE MINIMUM 12" SERVICE LOOPS.
- PROVIDE 6" SERVICE LOOPS IN ALL PATHWAY PULL BOXES.



FIRE ALARM RISER DIAGRAM

NOT TO SCALE

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY NAMIR A. HADDAD ON THE DATE ADJACENT TO THE SEAL.
 PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

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 7000 POWERS AVENUE JACKSONVILLE, FLORIDA 32217

SAFETY DEFICIENCIES AT BASEBALL AND SOFTBALL FIELDHOUSES AT WOLFSON HIGH SCHOOL NO. 224

NAMIR A. HADDAD P.E.
 PROFESSIONAL ENGINEER
 LICENSE No. 31967
 STATE OF FLORIDA

FIRE ALARM RISER DIAGRAM, NOTES AND SCHEDULES
 DATE: APRIL 22, 2020
 D.B. RS
 C.B. NAH
 JOB NO. 15054
 PERMIT SET
E4.2

MECHANICAL SPECIFICATIONS

I. MECHANICAL GENERAL PROVISIONS

PART 1 GENERAL

WORK INCLUDED:

A. FURNISH ALL MATERIALS, EQUIPMENT, ACCESSORIES, LABOR, SUPERVISION AND ALL RELATED ITEMS NECESSARY TO COMPLETE THE SCOPE OF THE WORK AS INDICATED ON THE DRAWINGS AND/OR SPECIFIED HEREIN.

B. THE FOLLOWING DATA WAS USED FOR THE THERMAL LOAD CALCULATIONS FOR THIS BUILDING: -INDOOR DESIGN: SUMMER 75 DB @ 50% RH -OUTDOOR DESIGN: 95 DEG. FdB/ 77 DEG. FwB IN SUMMER AND 32 DEG. F IN WINTER.

CODES AND STANDARDS:

A. ALL MECHANICAL SYSTEMS, AS DESCRIBED BY THESE PLANS AND SPECIFICATIONS, SHALL BE INSTALLED IN ACCORDANCE WITH THE APPLICABLE LOCAL BUILDING CODE, ALL OTHER APPLICABLE STATE, COUNTY AND LOCAL ORDINANCES AND ALL APPLICABLE SECTIONS OF THE FOLLOWING STANDARDS, LATEST EDITION: "ASHRAE", "AMCA", "ANSI", "ARI", "ASME", "ASTM", "CTI", "NFPA", "SMACNA", "UL".

B. THE ABOVE STANDARDS AND CODES ARE USED AS A MINIMUM DESIGN CRITERIA AND NO REDUCTIONS WILL BE PERMITTED, EVEN IF ALLOWED BY APPLICABLE CODES, WITHOUT WRITTEN PERMISSION BY ENGINEER, DRAWINGS:
A. IN GENERAL, MECHANICAL PLANS ARE DIAGRAMMATIC IN NATURE AND SHALL BE READ IN CONJUNCTION WITH THE ARCHITECTURAL, PLUMBING, ELECTRICAL, FIRE PROTECTION, STRUCTURAL AND ALL OTHER ASSOCIATED PLANS AND SHALL BE CONSTRUED AS ONE SET OF DOCUMENTS. DUCTWORK AND PIPING OFFSETS, BENDS AND TRANSITIONS OF EQUIVALENT SIZE WILL BE REQUIRED IN ORDER TO PROVIDE A COMPLETE, FUNCTIONAL MECHANICAL SYSTEM AND SHALL BE PROVIDED BY THE CONTRACTOR WITH NO ADDITIONAL COST TO THE OWNER. PLANS SHALL NOT BE SCALED.

B. AS-BUILT DRAWINGS AND RECORDS: CONTRACTOR SHALL PROVIDE "AS-BUILT" DRAWINGS TO THE ARCHITECT/OWNER AT THE COMPLETION OF THE PROJECT REFLECTING THE ACTUAL CONDITION OF THE MECHANICAL SYSTEM INSTALLATION AND ANY DEVIATION FROM THE ORIGINAL CONSTRUCTION DOCUMENTS. MAINTAIN A COMPLETE SET OF MECHANICAL PRINTS FOR INDICATING ALL CHANGES. USE COLORS TO MAKE CHANGES AT THE TIME OF EXECUTION. DELIVER SET TO ARCHITECT PRIOR TO ISSUANCE OF FINAL PAYMENT AND/OR CERTIFICATE OF OCCUPANCY. ELEVATIONS, INVERTS AND DIMENSIONED LOCATIONS OF UNDERGROUND WORK SHALL BE INDICATED, DIMENSION TO PERMANENT REFERENCES.

SUBMITTALS:

A. SHOP DRAWINGS: CONTRACTOR SHALL SUBMIT TO THE ENGINEER FOR REVIEW AND APPROVAL 7 (SEVEN) COPIES, INCLUDING MANUFACTURER SUBMITTAL DATA SHEET (MSDS) OF ALL EQUIPMENT, MATERIALS, DEVICES, ACCESSORIES AND FINISHES AS SPECIFIED BY THE ENGINEERING CONSTRUCTION DOCUMENTS. REVIEW OF EQUIPMENT AND MATERIAL SUBMITTALS SHALL IN NO WAY RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY TO COMPLY WITH PLANS, SPECIFICATIONS AND CODE REQUIREMENTS. ANY SUBSTITUTIONS SHALL BE PRE-APPROVED BY ARCHITECT AND OWNER AND SHALL BE CONTRACTOR'S RESPONSIBILITY TO INSURE FULL COMPLIANCE WITH THE ORIGINAL DESIGN PER PLANS AND SPECIFICATIONS.

B. MANUFACTURER'S MANUALS: SUBMIT MANUALS FOR APPROVAL AS INDICATED. MANUALS SHALL INCLUDE OPERATING AND MAINTENANCE INSTRUCTIONS, PARTS LISTS, MANUFACTURERS' AND LOCAL SUPPLIERS' ADDRESSES AND PERTINENT DESCRIPTIVE DATA. MANUALS SHALL BE LOOSE-LEAF BOUND AND INDEXED.

PERMITS AND FEES:

A. THE CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, EQUIPMENT AND NECESSARY ACCESSORIES (IE, WIRING, CONTROLS, DEVICES, ETC.) AND SHALL PAY FOR ALL PERMITS, FEES, INSPECTIONS AND ALL OTHER INCIDENTAL COSTS AND SERVICES NECESSARY FOR THE INSTALLING AND TESTING OF A COMPLETE OPERABLE AND SERVICEABLE MECHANICAL SYSTEM.

MANUFACTURER'S WARRANTY:

A. CONTRACTOR SHALL PROVIDE WARRANTY FOR A PERIOD OF (1) ONE YEAR AFTER BUILDING C.O. FOR ALL MECHANICAL SYSTEMS, DUCTWORK, CONTROLS, ACCESSORIES AND ALL OTHER EQUIPMENT, PARTS AND LABOR UNDER THESE DRAWINGS AND SPECIFICATIONS. CONTRACTOR SHALL PROVIDE WARRANTY FOR COMPRESSORS FOR (5) FIVE YEARS. ANY REPAIRS REQUIRING SYSTEM SHUT DOWN WILL BE DONE DURING NON-OPERATIONAL PERIODS OR AS AGREED WITH OWNER.

CONTRACTOR'S GUARANTEE:

A. ALL WORK AND MATERIALS TO BE PROVIDED UNDER THESE PLANS AND SPECIFICATIONS SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR FROM DATE OF BENEFICIAL OCCUPANCY.

B. CONTRACTOR SHALL PROVIDE MAINTENANCE AND OPERATION MANUAL ON ALL MECHANICAL EQUIPMENT AND SYSTEMS, AND TRAINING TO THE OWNER'S PERSONNEL AS NECESSARY OR REQUIRED FOR PROPER OPERATION.

PART 2 PRODUCTS

MATERIALS:

A. ALL MATERIALS SHALL BE NEW AND OF GOOD QUALITY OF U.S. MANUFACTURING WHENEVER POSSIBLE. ALL WORKMANSHIP AND MATERIALS SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, PRODUCT APPROVALS, RULES AND ORDINANCES. ALL EMPLOYED INSTALLING PROCEDURES, METHODS AND TECHNOLOGIES SHALL CONFORM TO ESTABLISHED INDUSTRY STANDARDS AND GOOD ENGINEERING PRACTICE. ANY DAMAGED EQUIPMENT SHALL BE REPLACED OR RESTORED TO ITS ORIGINAL CONDITION WITH NO ADDITIONAL COST TO THE OWNER.

B. ALL MECHANICAL EQUIPMENT AND MATERIALS SHALL BE RATED FOR THE REQUIRED SERVICE, PRESSURES, TEMPERATURES, VOLTAGE, ETC. AND SHALL BE CERTIFIED AND/OR LISTED WHERE APPLICABLE. PROVIDE ALL NECESSARY ACCESSORIES, CONTROLS, TRANSFORMERS, VALVES, CONNECTIONS, GAUGES, ETC. FOR PROPER OPERATION AND SERVICE.

C. SUBSTITUTIONS MUST BE REQUESTED IN CONFORMANCE WITH GENERAL CONDITIONS PER ARCH. SPECIFICATIONS.

D. ALL HARDWARE AND ACCESSORY FITTINGS SHALL BE OF A TYPE DESIGNED, INTENDED OR APPROPRIATE FOR USE AND COMPLEMENT ITEMS WITH WHICH THEY ARE USED, AND SHALL HAVE CORROSION PROTECTION SUITABLE FOR ATMOSPHERE IN WHICH THEY ARE INSTALLED. ALL SUCH HARDWARE SHALL BE U.S. STANDARD SIZES.

E. EQUIPMENT OF A SIMILAR NATURE SHALL BE IDENTICAL AND FIT ALLOTTED SPACE PROVIDED.

F. STORE AND PROTECT ALL MATERIALS FROM DAMAGE. MATERIALS SHALL NOT BE STORED DIRECTLY ON GROUND OR FLOOR AND SHALL BE KEPT CLEAN AND DRY, FREE FROM DETERIORATION BY ELEMENTS. DAMAGED MATERIALS SHALL NOT BE INSTALLED.

G. ALL EQUIPMENT AND MATERIALS SHALL BE SET LEVEL, PROPERLY ALIGNED, SECURED FIRMLY IN PLACE AND BOLTED TOGETHER WHERE IN SECTIONS, AND INSTALLED COMPLETE.

H. ALL OUTSIDE EXPOSED, VISIBLE MECHANICAL EQUIPMENT AND DEVICES SUCH AS GRILLES, PIPING, ETC. SHALL BE PAINTED TO MATCH SURROUNDING TEXTURES AND COLOR AS REQUIRED BY ARCHITECT AND/OR OWNER. PAINT ALL OUTSIDE EXPOSED MECHANICAL EQUIPMENT WITH CORROSION PROTECTIVE PAINT WHENEVER NECESSARY OR REQUIRED. ALL EXPOSED FASTENERS SHALL BE STAINLESS STEEL OR CADMIUM PLATED. ALL FASTENING DEVICES SHALL BE MADE UP TIGHT.

I. FOLLOW INSTALLATION DIRECTIONS AND RECOMMENDATIONS OF MATERIAL AND EQUIPMENT MANUFACTURERS.

J. MATERIALS DAMAGED DURING INSTALLATION SHALL BE REPAIRED TO A NEW

CONDITION OR SHALL BE REPLACED. FINISHES ON EQUIPMENT WHICH HAVE BEEN SCRATCHED OR MARRED SHALL BE TOUCHED UP TO MATCH ORIGINAL FINISH OR SHALL BE COMPLETELY REFINISHED.

K. ALL ENCLOSURES, ACCESS PANELS, CABINETS, FIXTURES AND ALL OTHER EXPOSED EQUIPMENT OR ACCESSORIES SHALL BE FACTORY PAINTED OR FINISHED EXCEPT AS INDICATED ON DRAWINGS.

L. GROUP MOUNTED ITEMS SHALL BE SIMILAR IN FINISH AND COLOR.

PART 3 EXECUTION

GENERAL:

A. CONTRACTOR MUST COMMENCE HIS WORK AS SOON AS BUILDING HAS SUFFICIENTLY ADVANCED IN CONSTRUCTION LAYOUT.

B. LOCATIONS OF EQUIPMENT AND PIPING MAY BE SHOWN ON DRAWINGS IN CERTAIN POSITIONS. CONTRACTOR SHALL BE GUIDED BY ARCHITECTURAL DETAILS AND CONDITIONS EXISTING AT JOB, CORRELATING THIS WORK WITH THAT OF OTHERS AND SHALL CAREFULLY EXAMINE ANY EXISTING CONDITIONS, EXISTING PIPING AND PREMISES AND COMPARE THE CONTRACT DOCUMENTS WITH EXISTING CONDITIONS.

C. LOCATION OF ELECTRICAL OUTLETS, PIPING, DUCTS, CEILING DIFFUSERS, ETC. SHALL BE COORDINATED BEFORE MATERIAL OR EQUIPMENT IS INSTALLED SO THAT THERE WILL BE NO INTERFERENCE. IN CASE ANY INTERFERENCE DEVELOPS, THE ARCHITECT/ENGINEER WILL DECIDE WHICH EQUIPMENT SHALL BE RELOCATED AT NO COST TO OWNER, REGARDLESS OF WHICH EQUIPMENT WAS INSTALLED FIRST.

D. CONTRACTOR SHALL CHECK ALL ELECTRICAL CONTROL CONNECTIONS OF EQUIPMENT FURNISHED UNDER THIS SECTION OF THE SPECIFICATIONS TO INSURE PROPER OPERATION OF EQUIPMENT.

E. CONTRACTOR SHALL VERIFY FIELD CONDITIONS PRIOR TO BIDDING, ORDERING, FABRICATION AND INSTALLATION OF MATERIALS AND EQUIPMENT AND SHALL BRING ANY DISCREPANCIES TO THE ATTENTION OF ARCHITECT AND ENGINEER.

F. SUBMITTAL OF BID SHALL INDICATE THE CONTRACTOR HAS INCLUDED ALL REQUIRED ALLOWANCE IN HIS BID. NO ALLOWANCE SHALL BE MADE FOR ANY ERROR RESULTING FROM CONTRACTOR'S FAILURE TO VISIT JOB SITE AND TO REVIEW DRAWINGS.

G. LAYOUT: WORK LINES AND ESTABLISHED HEIGHTS SHALL BE IN STRICT ACCORDANCE WITH PLANS AND SPECIFICATIONS. SET ALL SLEEVES, ANCHORS, BOLTS, AND/OR INSERTS BEFORE CONCRETE IS POURED.

H. ALL MATERIALS AND LABOR REGARDING SITE WORK, STRUCTURAL STEEL, WEATHER PROOFING, PAINTING, WALL AND ROOF OPENINGS, CUTTING, PATCHING, ETC. SHALL BE DONE BY THE GENERAL CONTRACTOR.

I. WATERPROOFING: WHERE WORK MUST PIERCE WATERPROOFING, IT SHALL BE DONE WITH CARE AND AFTER ITEM PIERCING WATERPROOFING HAS BEEN SET IN PLACE, THE OPENING MADE FOR THIS PURPOSE SHALL BE SEALED AND MADE ABSOLUTELY WATERPROOF.

J. BALANCING: ALL SYSTEMS UNDER THIS SECTION SHALL BE FULLY BALANCED BEFORE FINAL ACCEPTANCE TO ACHIEVE OPTIMUM PERFORMANCE CHARACTERISTICS. ALL WATER SYSTEMS SHALL BE FREE FROM WATER HAMMER UPON COMPLETION OF WORK.

K. PROVIDE CONNECTIONS TO ALL EQUIPMENT FURNISHED BY OWNER OR OTHER CONTRACTORS, INCLUDING MATERIALS AND NECESSARY APPURTENANCES REQUIRED TO COMPLETE THE INSTALLATION.

L. ALL OPENINGS IN BUILDING STRUCTURES FOR PASSING OF MECHANICAL DUCTWORK, PIPING, ETC. SHALL BE 1/2" LARGER ON ALL SIDES (OR AS REQUIRED FOR FIRE-STOPPING) THAN OUTSIDE DIMENSIONS OF PASSING ELEMENT. INTERSTITIAL VOIDS SHALL BE FILLED WITH FIRE RETARDANT MATERIAL AS MANUFACTURED BY "PYROSAFE", "THERMOFIRE", "3M" OR OTHER APPROVED MANUFACTURER.

M. CONTRACTOR SHALL UNDERCUT DOORS 1/2" (MAX. 50 CFM) TO PROVIDE REQUIRED VENTILATION FOR UTILITY ROOMS, STORAGE ROOMS, ELECTRICAL ROOMS, TOILETS, ETC. WHEN TRANSFER GRILLES OR DUCTS ARE NOT PROVIDED.

II. HEATING, VENTILATION AND AIR CONDITIONING

PART 1 GENERAL

WORK INCLUDED:

A. GENERAL REQUIREMENTS: THE GENERAL CONDITIONS AND PROVISIONS ARE HEREBY MADE A PART OF THIS SECTION OF THE SPECIFICATIONS.

B. WORK INCLUDED: THIS SECTION IS INTENDED TO DESCRIBE A COMPLETE SYSTEM OF AIR CONDITIONING, VENTILATING, AND ALL COMPONENTS THEREOF. SYSTEMS SHALL MEET REQUIREMENTS OF APPLICABLE CODES AND REGULATIONS AND SHALL BE COMPLETE IN EVERY RESPECT.

PROVISIONS:

A. THE FOLLOWING CODES AND REGULATIONS SHALL, IN ADDITION TO THOSE LISTED ABOVE, APPLY TO WORK AND SYSTEMS COVERED BY THIS SECTION.
1. NFPA 90A & 90B - AIR CONDITIONING AND VENTILATION SYSTEMS, LATEST ED.
2. NFPA 91 - BLOWER AND EXHAUST SYSTEMS, LATEST ED.
3. NFPA 101 - LIFE SAFETY CODE, LATEST ED.
4. NFPA 703 - FIRE RETARDANT TREATMENTS OF BUILDING MATERIALS.
5. NFPA 255 - BUILDING MATERIALS TEST OF SURFACE BURNING CHARACTERISTICS.
6. MECHANICAL REFRIGERATION CODE.
7. ASTM. E8475 - METHOD OF TEST FOR SURFACE BURNING CHARACTERISTICS OF BUILDING MATERIALS
8. UL - 723.

B. ALL THERMOSTATS SHALL BE INSTALLED AS INDICATED ON PLANS OR AS REQUIRED/APPROVED BY OWNER AND ENGINEER. ALL THERMOSTATS SHALL BE INSTALLED AS PER THE A.D.A. CODE REQUIREMENTS WHERE APPLICABLE.

C. PROVIDE HIGH EFFICIENCY MOTORS WITH MATCHING NON- FUSIBLE DISCONNECT SWITCH TYPE COMBINATION MOTOR STARTERS (AS COORDINATED WITH ELECTRICAL CONTRACTOR) AS FOLLOWS, UNLESS OTHERWISE RECOMMENDED BY MOTOR OR EQUIPMENT MANUFACTURER:

- ACROSS THE LINE VOLTAGE STARTING BELOW 25 HP
- OVERLOAD PROTECTION - 1/3 HP AND ABOVE FOR ALL PHASES WHERE SPECIFIED. ALL STARTERS SHALL HAVE PHASE LOSS AND UNBALANCE PROTECTION.

D. PROVIDE A MIN. OF 36" CLEARANCE IN FRONT OF ALL 120-208 VOLT PANELS AND 42" CLEARANCE IN FRONT OF ANY 240-480 VOLT PANELS WITH ADEQUATE SIDE CLEARANCE PER NEC REQUIREMENTS.

E. PROVIDE MIN. 10"-0" CLEARANCE BETWEEN OUTSIDE AIR INTAKES AND ANY EXHAUST OPENINGS, EQUIPMENT, ETC., COORDINATE WITH PREVAILING WIND DIRECTION FOR THE DESIGN AREA.

F. FOR ALL EXHAUST FANS PROVIDE BACK-DRAFT DAMPERS WITH TIGHT SEAL IF NOT OTHERWISE SPECIFIED ON SCHEDULES AND PLANS.

G. ALL MECHANICAL EQUIPMENT SHALL BE PROVIDED WITH VIBRATION ISOLATORS AS SPECIFIED ON SCHEDULES AND PLANS OR AS RECOMMENDED BY MANUFACTURER FOR NORMAL OPERATION WITHIN PRESCRIBED NOISE AND VIBRATION LIMITS.

H. PROVIDE FLEXIBLE CONNECTORS BETWEEN DISTRIBUTION SYSTEM AND AIR OR WATER MOVING EQUIPMENT: AHU'S, FANS, PUMPS, ETC.

I. OUTDOOR INSTALLED EQUIPMENT SHALL COMPLY WITH ALL LOCAL NOISE REGULATIONS AND ORDINANCES. IT SHALL NOT EXCEED A NOISE LEVEL OF 65 DECIBELS AS MEASURED RADIALY 30 FEET FROM THE EQUIPMENT IN ALL

DIRECTIONS. IF REQUIRED, PROVIDE ACOUSTIC INSULATION.

PRODUCT DELIVERY, STORAGE AND HANDLING

A. DELIVERY: DELIVER PRODUCTS TO JOB SITE IN THEIR ORIGINAL UNOPENED CONTAINERS CLEARLY LABELED WITH THE MANUFACTURER'S NAME AND BRAND DESIGNATION, REFERENCED SPECIFICATION NUMBER, TYPE, AND CLASS AS APPLICABLE.

B. STORAGE: STORE PRODUCTS IN AN APPROVED DRY AREA; PROTECT FROM CONTACT WITH SOIL AND FROM EXPOSURE TO THE ELEMENTS. KEEP PRODUCTS DRY AT ALL TIMES.

C. HANDLING: HANDLE PRODUCTS IN A MANNER THAT WILL PREVENT BREAKAGE OF CONTAINERS AND DAMAGE TO PRODUCTS.

PART 2 - PRODUCTS

FIRE DAMPERS

PROVIDE FIRE DAMPERS CONFORMING TO THE REQUIREMENTS OF NFPA 90A AND UL LISTED, LABELED AND RATED 1-1/2 HOURS. PROVIDE FUSIBLE LINKS 165°F. VIBRATION PROOF AND SECURED WITH CLINCHED "S" HOOKS OR STAINLESS STEEL BOLTS AND LOCK NUTS. ALL FIRE DAMPERS SHALL HAVE THE BLADES OUT OF THE AIR STREAM (TYPE B FIRE DAMPERS) EXCEPT FIRE DAMPERS LOCATED AT WALL GRILLES. THESE DAMPERS SHALL BE TYPE.

EXHAUST FANS

E. GENERAL: PROVIDE DIRECT DRIVE PROPELLER SIDEWALL FANS OF QUANTITIES, SIZES, ARRANGEMENTS, AND TYPES AS INDICATED ON THE DRAWINGS, AS SCHEDULED AND SPECIFIED.

F. COMPLETE FAN UNITS: PROVIDE FACTORY DESIGNED, ASSEMBLED, AND TESTED FANS, EACH CONSISTING OF A HOUSING, FAN, SHAFT, BEARINGS, STRUCTURAL SUPPORTS, MOTOR, AND ACCESSORIES SPECIFIED OR SCHEDULED.

G. HOUSINGS: PROVIDE HEAVY GAUGE ALUMINUM HOUSINGS WITH EXTERNAL FASTENERS OF STAINLESS STEEL. ALL OTHER PARTS SHALL BE ZINC PLATED AND CHROMATE TREATED STEEL TO PREVENT CORROSION.

H. FIN: ALUMINUM BLADE PROPELLER WITH GALVANIZED STEEL FAN PANELS AND CORROSION RESISTANT FASTENERS.

I. MOTORS: PROVIDE EACH FAN WITH AN EXPLOSION-PROOF SQUIRREL CAGE INDUCTION MOTOR WITH BALL OR SLEEVE BEARINGS, CONFORMING TO NEMA MG 1.

J. PROVIDE NON-FUSED DISCONNECT SWITCH COMPLETE WITH FACTORY WIRING AND MOUNTING.

G. PROVIDE ACCESSORIES AS SCHEDULED.

PART 3 - EXECUTION

A. INSTALL ALL EQUIPMENT, ACCESSORIES AND MATERIALS IN ACCORDANCE WITH MANUFACTURERS PUBLISHED RECOMMENDATIONS.

TESTING AND BALANCING:

GENERAL:

A. MECHANICAL CONTRACTOR SHALL PROVIDE AN INDEPENDENT TEST AND BALANCE OF ALL MECHANICAL EQUIPMENT (AHU'S, FANS, ETC.), TO ACHIEVE THE DESIGN QUANTITIES AND FLOW RATES AS NOTED ON THE PLANS AND SCHEDULES. THE SUBMITTED T & B REPORT SHALL BE IN ACCORDANCE WITH THE AIR BALANCE COUNCIL STANDARDS INCLUDING, BUT NOT LIMITED TO, AIR AND WATER FLOW QUANTITIES AND SHALL BE SIGNED AND SEALED BY A STATE REGISTERED PROFESSIONAL ENGINEER. CONTRACTOR SHALL PROVIDE ALL DEVICES AND ACCESSORIES AS NECESSARY FOR FINAL BALANCING OF ALL SYSTEMS FOR PROPER OPERATION TO THE SATISFACTION OF OWNER AND ENGINEER.

B. TESTING AND BALANCING OF AIR CONDITIONING SYSTEMS AS DESCRIBED IN THIS SECTION SHALL NOT BE PERFORMED UNTIL ALL SYSTEM COMPONENTS HAVE BEEN INSTALLED INCLUDING CONTROL DEVICES.

C. AFTER COMPLETION OF TESTS, 7 COPIES OF A TEST REPORT INCLUDING PROCEDURES, METHODS AND RECORDED RESULTS SHALL BE DELIVERED TO THE ARCHITECT/ENGINEER.

AIR BALANCING:

A. THE CONTRACTOR SHALL PERFORM THE FOLLOWING TEST AND BALANCE OF THE SYSTEM IN ACCORDANCE WITH THE FOLLOWING REQUIREMENTS (PROVIDE WRITTEN SUBSTANTIATING DATA).

B. SYSTEM COMPONENT CAPACITY: RECORD AND CALCULATE ALL DATA NECESSARY TO DEMONSTRATE CAPACITY UNDER ACTUAL OPERATING CONDITIONS, AND ADJUST FAN SPEED, TO OBTAIN A SUITABLE OPERATING BALANCE FOR EACH SYSTEM. RECORD DATA FOR EACH PIECE OF EQUIPMENT, TO PERMIT EVALUATION OF TOTAL SYSTEM PERFORMANCE.

INSTRUCTIONS TO OWNER:

A. THE AIR CONDITIONING SUB CONTRACTOR SHALL DEMONSTRATE THAT ALL SYSTEMS ARE FUNCTIONAL DURING THE HEATING AND COOLING SEASONS, IN FULL ACCORDANCE WITH THE INTENT OF THE PLANS AND SPECIFICATIONS, AND SHALL INSTRUCT THE OWNER OR HIS REPRESENTATIVE IN THE OPERATION OF THE SYSTEMS.

AIR DISTRIBUTION SCHEDULE

MARK	TYPE	FACE SIZE	BORDER TYPE	MANUFACTURER	MODEL NO.	NOTES
A	LOUVER	SEE DWGS.	SURFACE	RUSKIN	ELF6375DFL	1, 2

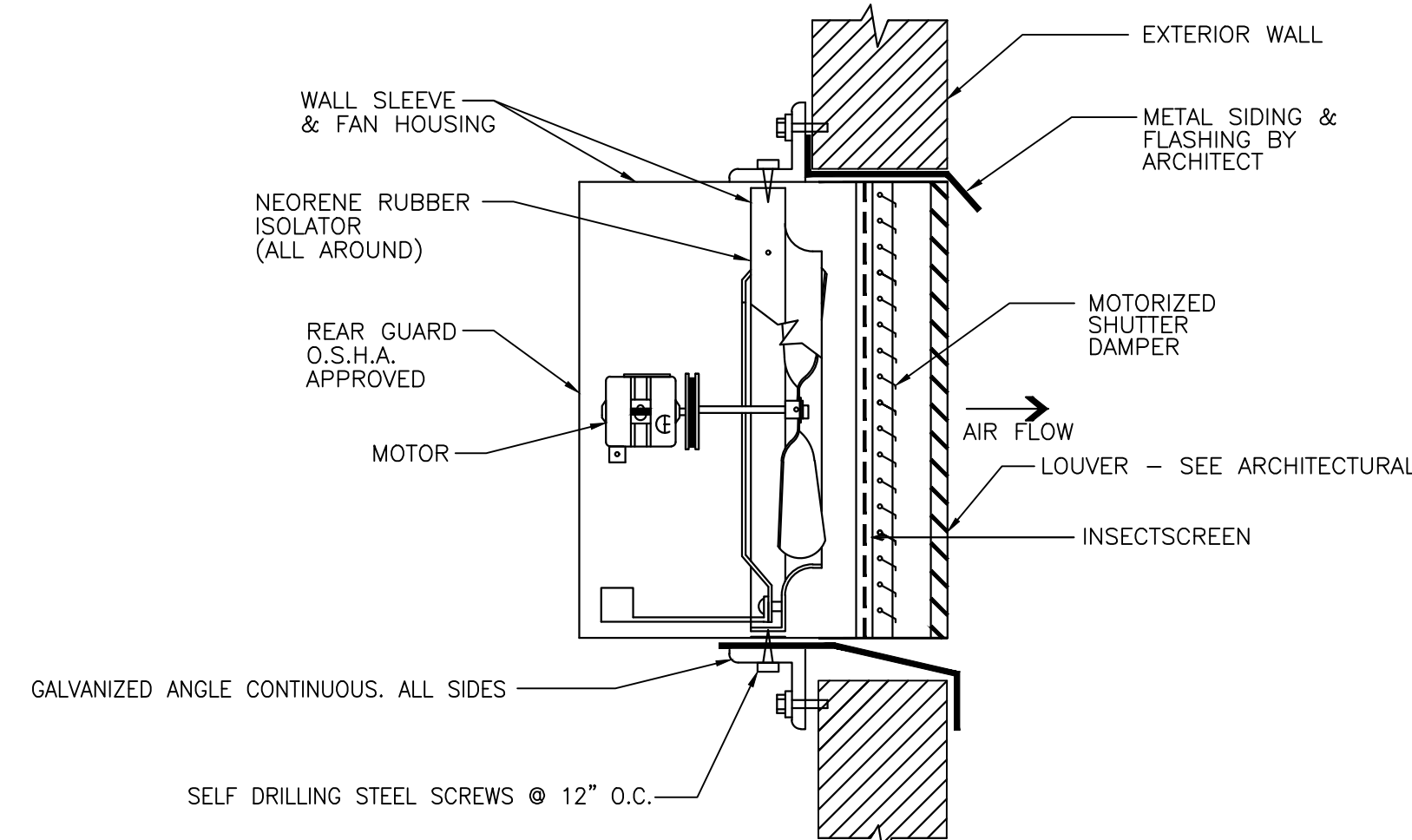
NOTES:

1. BASIS OF DESIGN FLORIDA PRODUCT APPROVAL #FL6068.
2. PROVIDE 6" DEEP PLENUM FULLY SIZED OF LOUVER. INSULATE SIMILAR TO DUCTWORK.

HVAC GENERAL NOTES

- CONNECTION TO EQUIPMENT SHALL BE VERIFIED WITH MANUFACTURER CERTIFIED DRAWINGS. VERIFY AND PROVIDE DUCT TRANSITIONS TO FURNISHED EQUIPMENT. FIELD VERIFY AND COORDINATE ALL DIMENSIONS BEFORE FABRICATION.
- ALL DUCTS AND PIPING SHALL BE INSTALLED AS TIGHT AS POSSIBLE TO WALLS AND BEAMS.
- ALL EQUIPMENT, PIPING, AND DUCTWORK SHALL BE SUPPORTED AS DETAILED AND SPECIFIED. ADDITIONAL SUPPORTS SHALL BE PROVIDED AS REQUIRED TO PROVIDE A VIBRATION FREE INSTALLATION.
- COORDINATE WITH ALL TRADES INVOLVED. PROVIDE OFFSETS AND TRANSITIONS AROUND OBSTRUCTIONS AT NO ADDITIONAL COST TO THE OWNER.
- REFER TO TYPICAL DETAILS FOR INSTALLATION OF EQUIPMENT.
- ALL FINISHES DAMAGED OR REMOVED FOR THE INSTALLATION OF WORK SHALL BE REPLACED TO MATCH ADJACENT FINISHES.
- ALL PIPE PENETRATIONS THROUGH FIRE WALLS TO BE AIR TIGHT AND SEALED WITH FIRE-PROOF SEALANT. ALL DUCT PENETRATIONS THROUGH FIRE WALLS TO BE PROVIDED WITH FIRE DAMPERS INSTALLED IN ACCORDANCE WITH NFPA.
- OUTDOOR DESIGN AMBIENT FOR ALL EQUIPMENT IS 95 DEGREES FdB/ 77 DEGREES FwB IN SUMMER AND 32 DEGREES FAHRENHEIT IN WINTER.
- SET ALL HVAC SUPPLY, RETURN, AND EXHAUST SYSTEM AIR FLOW RATE TOLERANCES TO WITHIN PLUS 10 PERCENT (10%) OR MINUS ZERO PERCENT (0%).
- MECHANICAL CONTRACTOR SHALL COORDINATE ALL ELECTRICAL REQUIREMENTS AND ACCESSORIES WITH ELECTRICAL CONTRACTOR PRIOR TO PURCHASE AND INSTALLATION AND SHALL BRING ANY DISCREPANCIES TO THE ATTENTION OF ENGINEER.

NOTE: DEPTH OF MOUNTING BOX OR SLEEVE TO SUIT DIMENSIONS OF SIDING & CHANNEL FRAMING. MOUNTING BOX OR SLEEVE FURNISHED WITH FAN.



SIDEWALL FAN DETAIL

NOT TO SCALE

1
M1.0

HVAC LEGEND

ASHRAE	AMERICAN SOCIETY OF HEATING REFRIGERATION AND AIR CONDITIONING ENGINEERS	LVG	LEAVING
CFM	CUBIC FEET PER MINUTE	SP	STATIC PRESSURE
EF-1	EXHAUST FAN #1	TYP.	TYPICAL
ESP	EXTERNAL STATIC PRESSURE	UL	UNDERWRITERS LABORATORIES
F.	FAHRENHEIT	W/	WITH
HP	HORSEPOWER	⊖	THERMOSTAT
HVAC	HEATING, VENTILATION, AND AIR CONDITIONING	M	MOTORIZED DAMPER
	KILOWATTS		

EXHAUST FAN SCHEDULE

UNIT NO.	EF-1
TYPE	WALL
SERVES	EQUIPMENT SHED
AIR FLOW (CFM)	850
EXTERNAL S.P. (IN. W.G.)	0.125
FAN DATA	
HORSEPOWER	1/8
DRIVE	DIRECT
SPEED (RPM)	1430
MAXIMUM SONES	9
VOLTS/PHASE/HERTZ	115/1/60
MANUFACTURER	GREENHECK
MODEL NO.	SE1-12-432-D
NOTES	1, 2, 3, 4, 5

NOTES:

- PROVIDE WITH: BACKDRAFT DAMPER, WALL HOUSING, AND GUARD.
- ACCEPTABLE ALTERNATE MANUFACTURERS: LOREN COOK, CARNES, OR ACME.
- PROVIDE EXPLOSION PROOF LINE VOLTAGE THERMOSTAT FOR CONTROL
- FAN, MOTOR, AND ALL ASSOCIATED CONTROLS TO BE EXPLOSION PROOF.
- PART OF ALTERNATE NO. 1

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SAFETY DEFICIENCIES AT BASEBALL AND SOFTBALL FIELDHOUSES AT WOLFSON HIGH SCHOOL NO. 224

S: ANNE LEVISEUR P.E.
LICENSE NO. 36120

REVISIONS

MECHANICAL LEGEND, SCHEDULE, NOTES AND SPECIFICATIONS

DATE APRIL 22, 2020

C.B. NH

S.L.

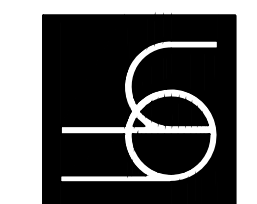
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PERMIT SET

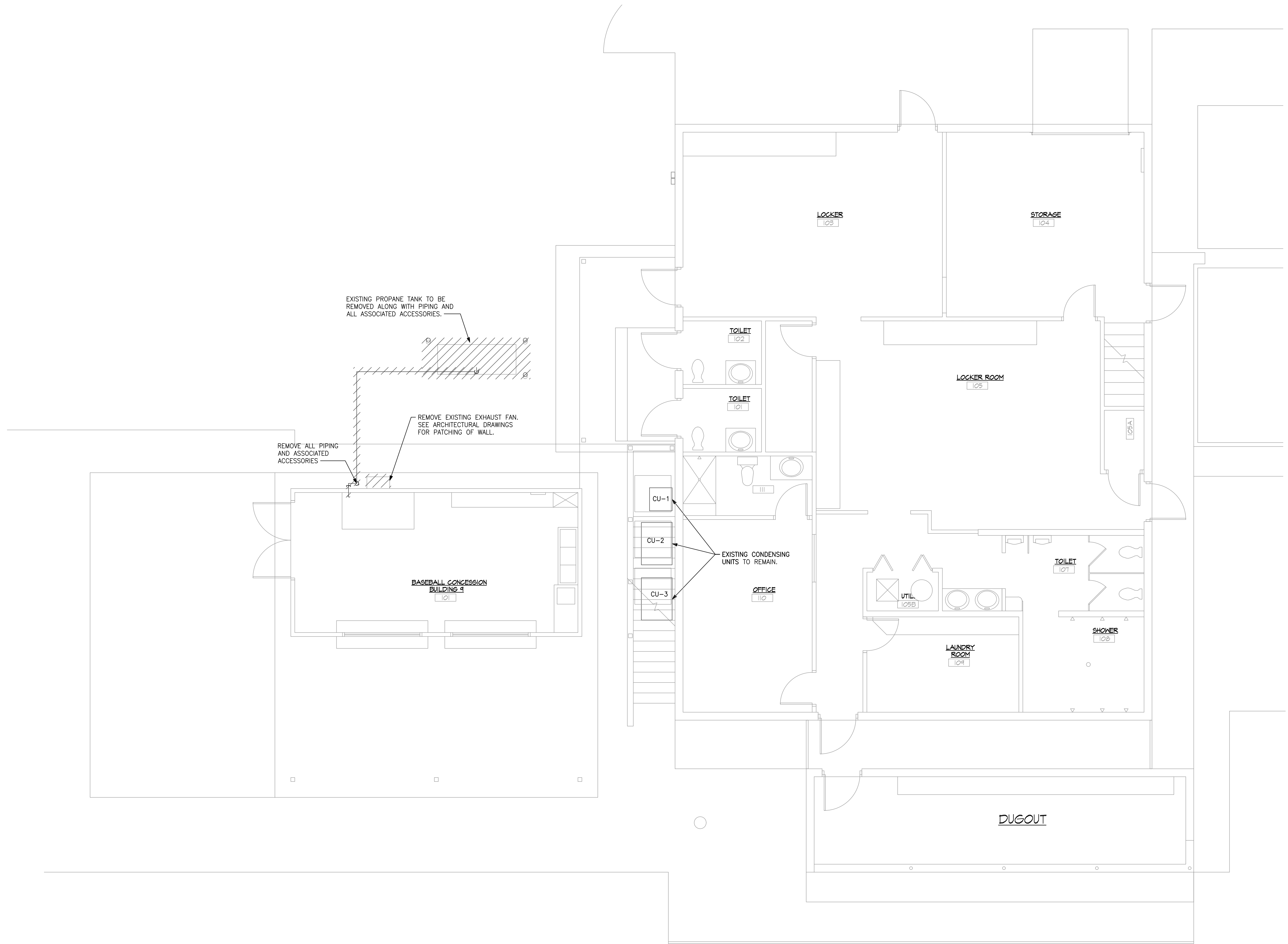
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BHIDE & HALL ARCHITECTS, P.A.
1529 KINGSLEY AVENUE, SUITE C ORANGE PARK, FLORIDA 32067
PH: (904) 284-1919 LIC. NO. AC000669

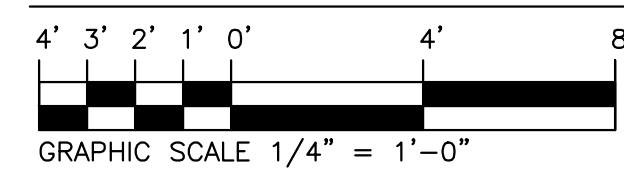
HADDAD ENGINEERING, INC.
3800 HARVEY ROAD, SUITE 205
PENSACOLA, FLORIDA 32507
TEL: (904) 282-9242
LIC. NO. EC00000001



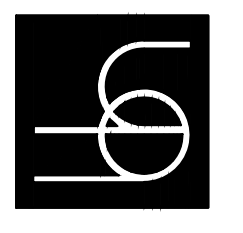
7000 POWERS AVENUE
JACKSONVILLE, FLORIDA 32217



DEMOLITION FLOOR PLAN BLDGS 9 & 10 - HVAC



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SU-ANNE LEVEISUR P.E.
 LICENSE NO. 38120

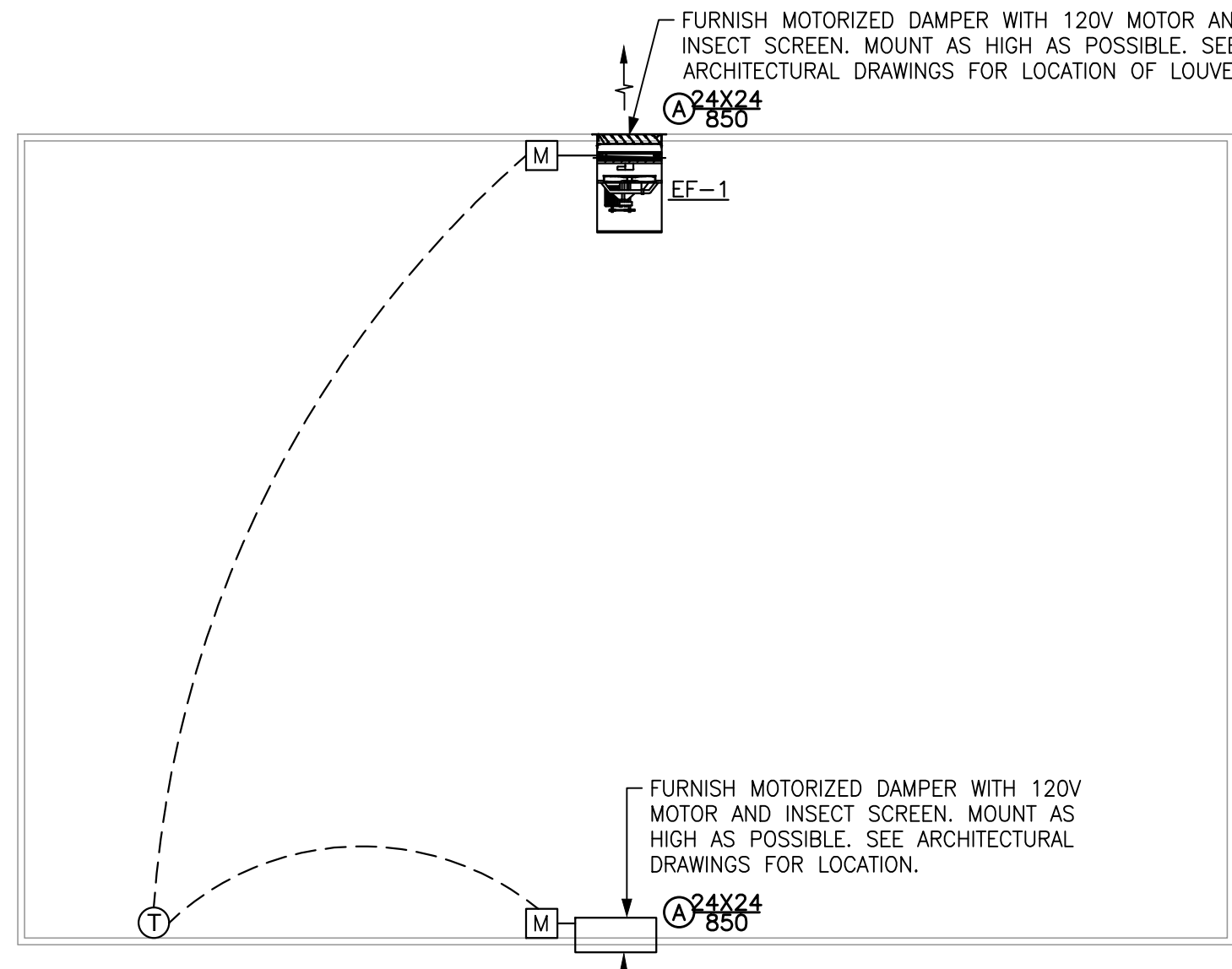
REVISIONS

DEMO HVAC FLOOR PLAN BLDGS 9 & 10

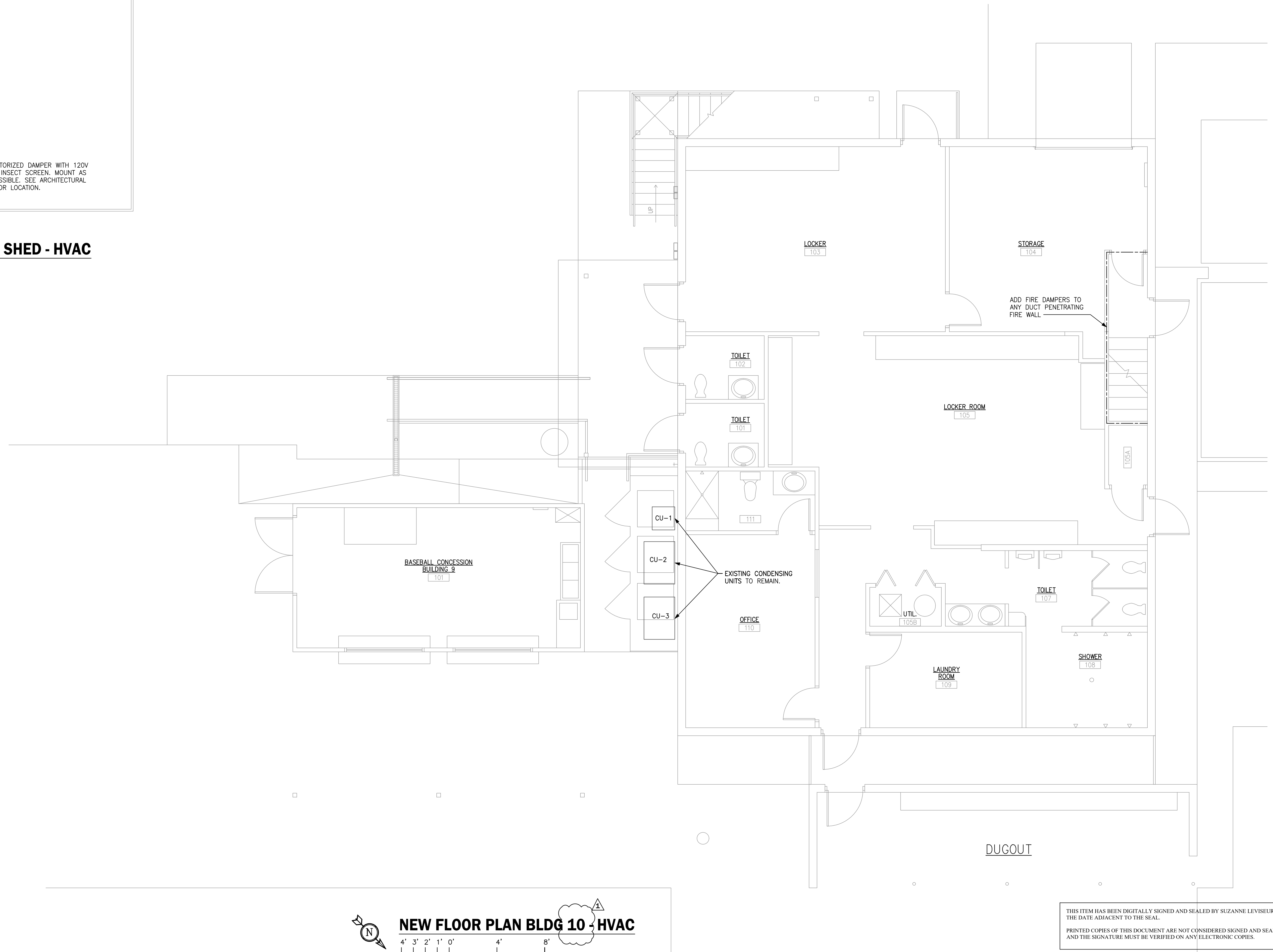
DATE APRIL 22, 2020
 D.B. NH
 C.B. SL
 JOB NO. 15054

PERMIT SET



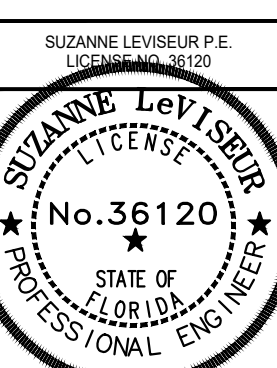
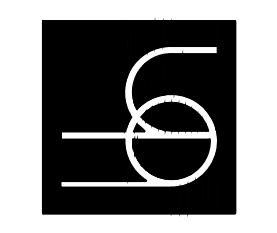


NEW FLOOR PLAN EQUIPMENT SHED - HVAC
 GRAPHIC SCALE 1/4" = 1'-0"



NEW FLOOR PLAN BLDG 10 - HVAC
 GRAPHIC SCALE 1/4" = 1'-0"

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REVISIONS	
Δ	OBCE COM. AND ADDENDUM 2 05.13.2020

NEW HVAC FLOOR PLAN BLDG 10 & EQUIPMENT SHED

DATE	MAY 13, 2020
D.B.	NH
C.B.	SL
JOB NO.	15054

PERMIT SET
M2.1