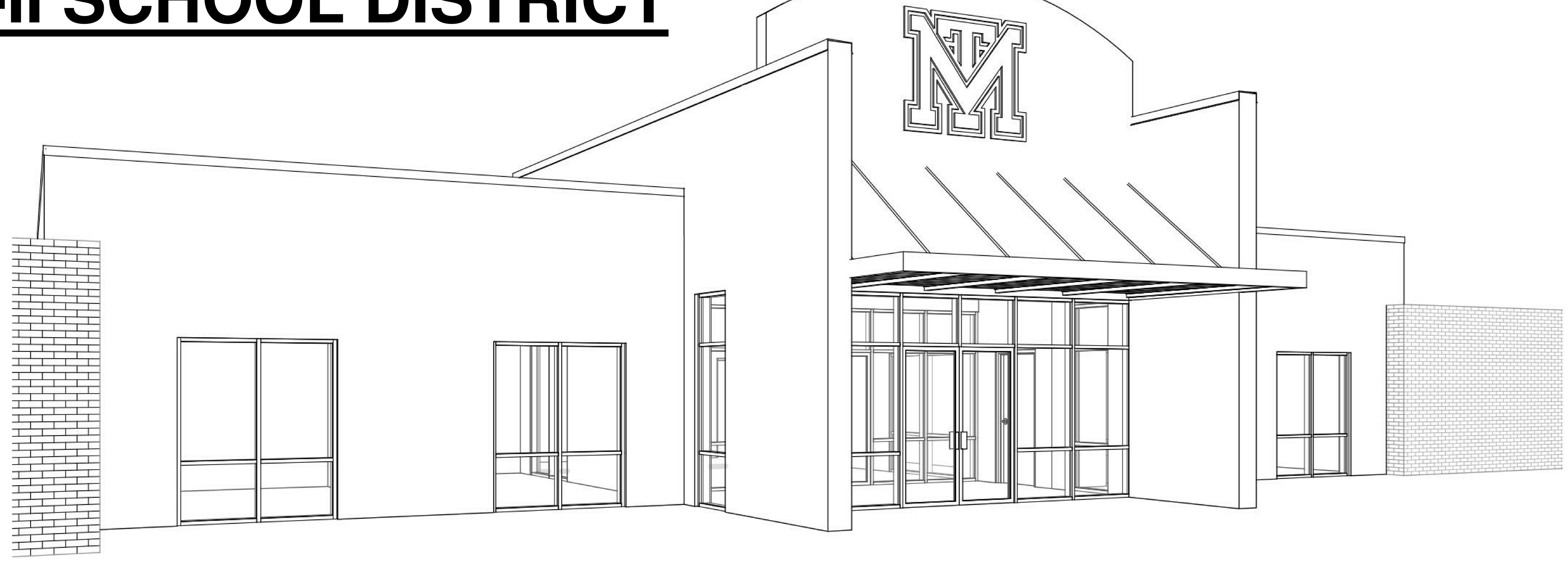
NEW HIGH SCHOOL ADDITIONS

RALLS COUNTY R-II SCHOOL DISTRICT

HIGHWAY 19, CENTER, MISSOURI 63436

ISSUED FOR BIDDING
5/8/2020



ARCHITECT OF RECORD:

ARCHITECHNICS
architects • engineers • interior designers

CONTACT PERSON: JACQUES REYNOLDS
PROJECT NO. 5910C
STATE OF MISSOURI
ENGINEERING DESIGN FIRM 2014009673
ARCHITECTURAL DESIGN FIRM 000423

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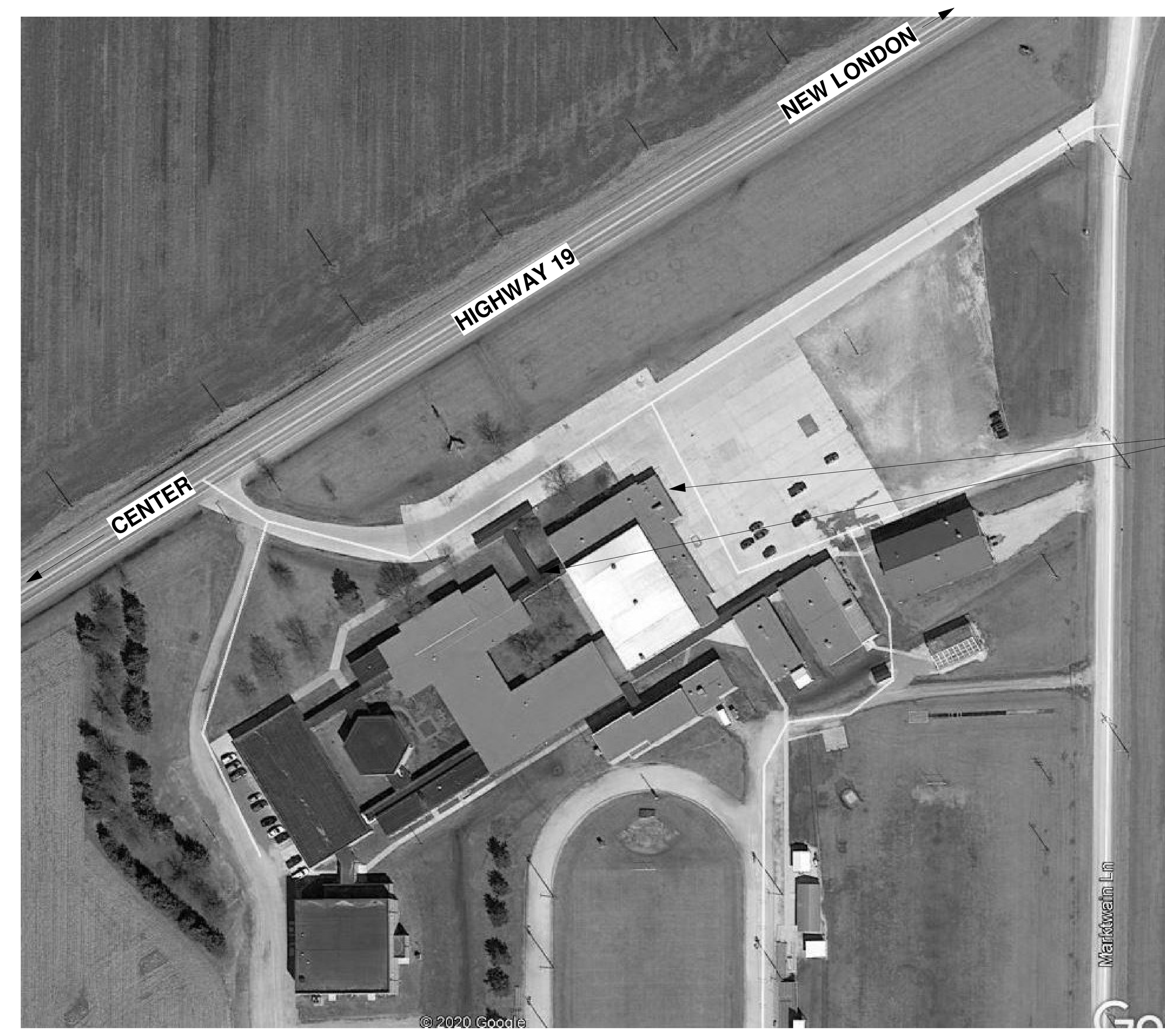
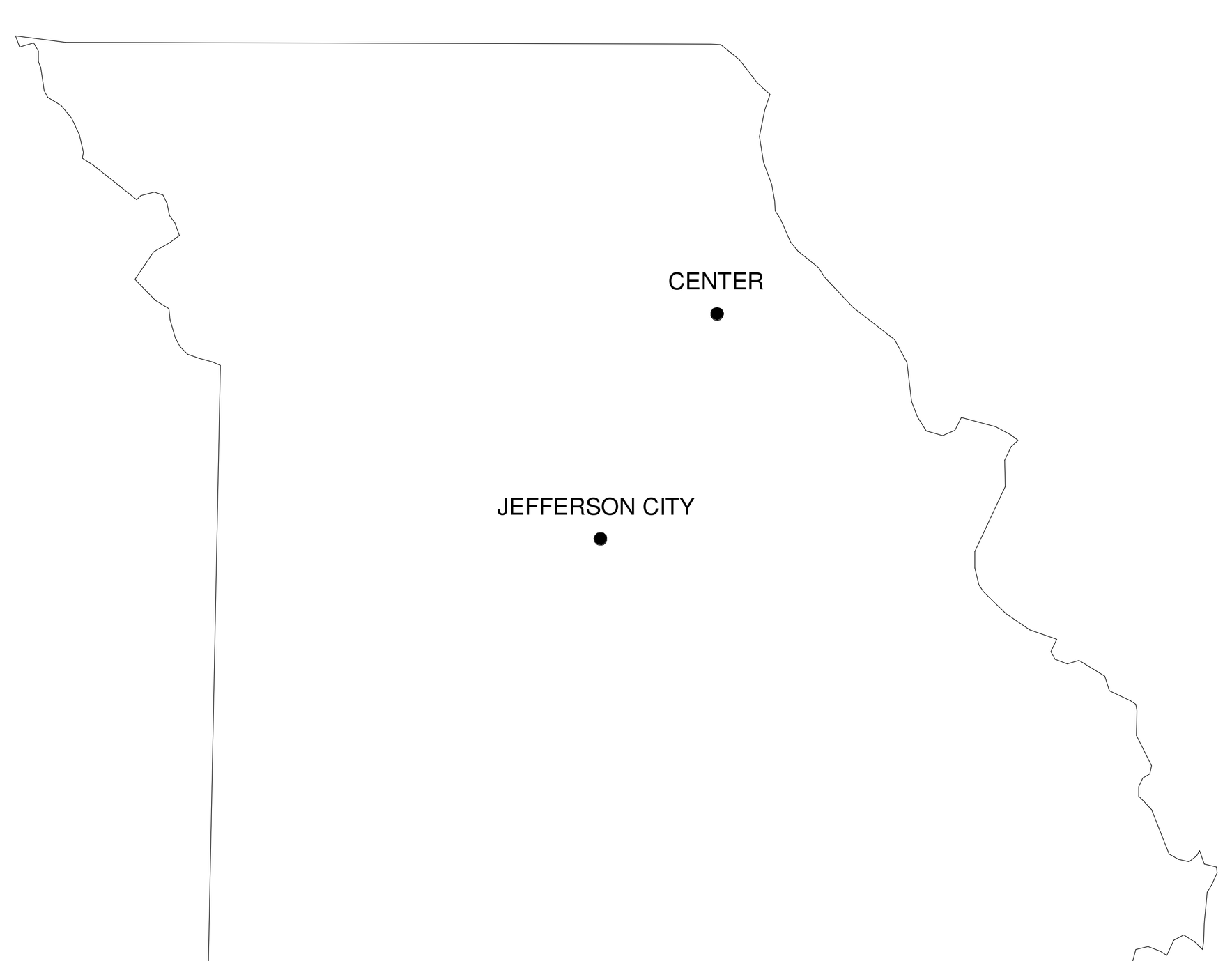


AREA OF WORK

AERIAL PHOTO

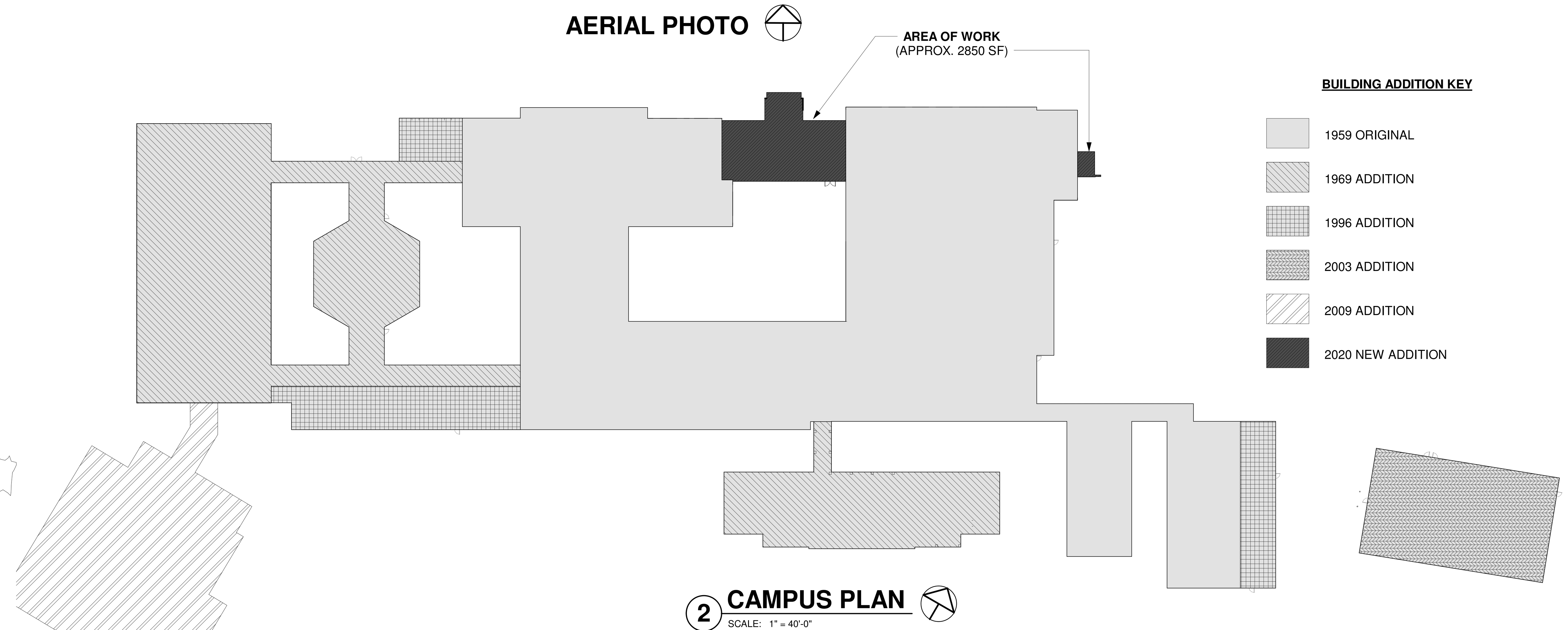
GENERAL NOTES

1. CONTRACTOR TO VERIFY ALL DIMENSIONS.
2. ANY DISCREPANCIES BETWEEN STATED AND EXISTING CONDITIONS SHALL BE REPORTED IMMEDIATELY TO THE ARCHITECT.
3. DISCREPANCIES OR CONFLICTS BETWEEN SPECIFICATIONS AND DRAWINGS SHALL BE MADE KNOWN TO THE ARCHITECT FOR CLARIFICATION.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING THOSE AREAS TO REMAIN UNDISTURBED DURING CONSTRUCTION.
5. THE CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS, AS PER THE WRITTEN SPECIFICATIONS, TO MAINTAIN SAFETY AT THE CONSTRUCTION SITE, AND HE IS SOLELY RESPONSIBLE FOR SAFETY MEASURES. THE CONTRACTOR IS ALSO SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, AND TECHNIQUES REGARDING EXECUTION OF THE WORK.
6. THE CONTRACTOR SHALL CONFORM TO ALL LOCAL AND STATE CODES AND RECEIVE LOCAL AND STATE APPROVAL WHERE NECESSARY PRIOR TO CONSTRUCTION.
7. THE CONTRACTOR SHALL GIVE ALL NECESSARY NOTICES AND OBTAIN ALL PERMITS AND PAY ALL LEGAL FEES. HE SHALL ALSO COMPLY WITH ALL CITY, COUNTY, AND STATE BUILDING LAWS, ORDINANCES, OR REGULATIONS.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE DONE TO THE PREMISES OR ADJACENT PREMISES, OR INJURIES TO THE PUBLIC DURING THE CONSTRUCTION OF THE WORK, CAUSED BY HIMSELF, HIS SUBCONTRACTORS, OR THE CARELESSNESS OF ANY OF HIS EMPLOYEES.
9. THE CONTRACTOR MUST UNDERSTAND THAT THE WORK IS ENTIRELY AT HIS RISK UNTIL SAME IS ACCEPTED, AND HE WILL BE HELD RESPONSIBLE FOR ITS SAFETY.
10. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL NECESSARY TEMPORARY MEASURES FOR THE PROTECTION OF THE WORK, INCLUDING BARRICADES, WARNING SIGNS, LIGHTS, ETC.



STATE OF MISSOURI

1 STATE OF MISSOURI
SCALE: 12" = 1'-0"



BUILDING ADDITION KEY

1959 ORIGINAL
1969 ADDITION
1996 ADDITION
2003 ADDITION
2009 ADDITION
2020 NEW ADDITION

2 CAMPUS PLAN
SCALE: 1" = 40'-0"

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STATE OF MISSOURI • JACQUES L. REYNOLDS • NUMBER A-2007030508 • ARCHITECT

RALLS COUNTY R-II SCHOOL DISTRICT
NEW HIGH SCHOOL ADDITIONS
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REVISIONS

NO.	Date	Description

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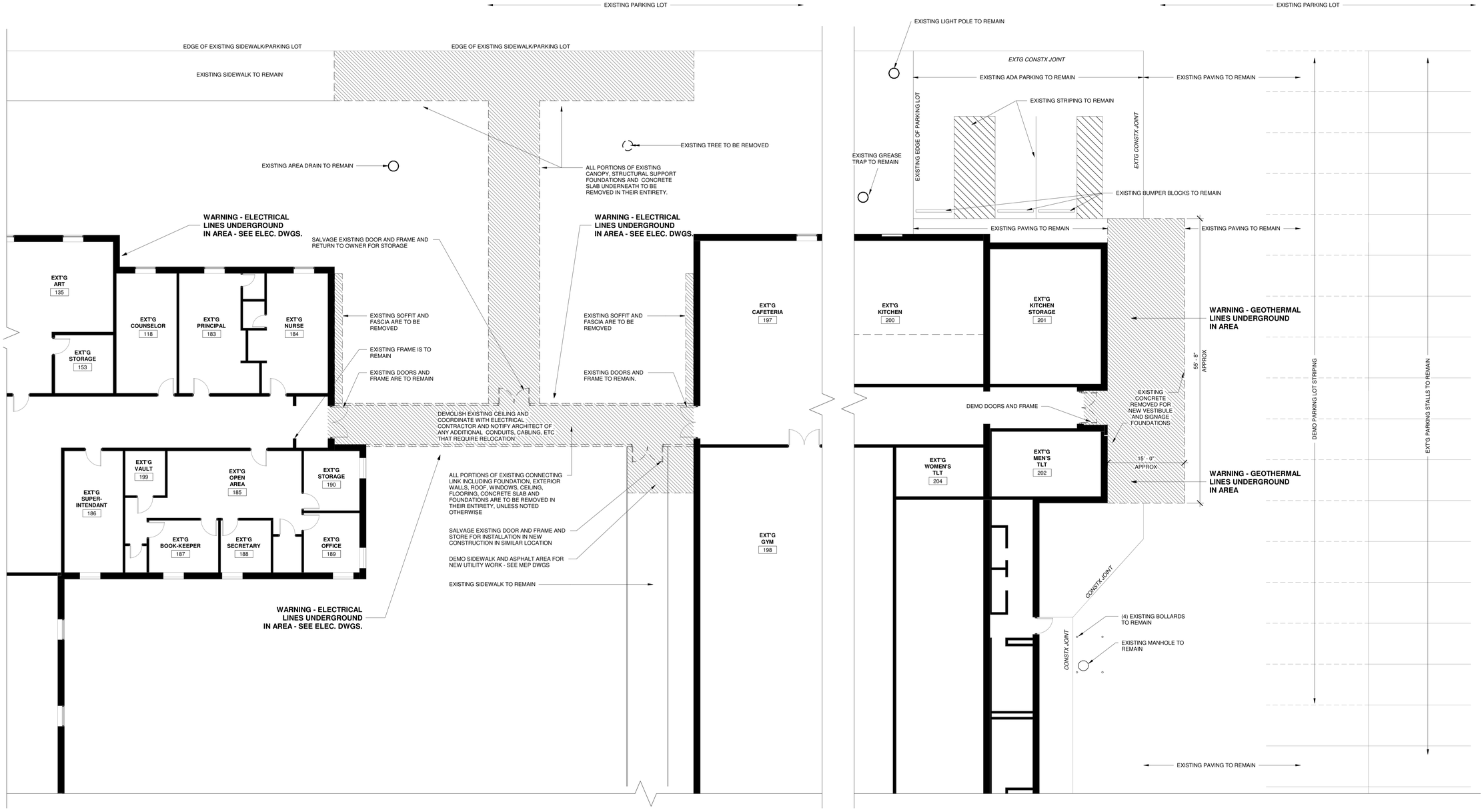
G000



1 ENLARGED PARTIAL DEMO PLAN

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

0 4" 8" 16"

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DEMOLITION PLAN

DWG. NO.

D100

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GENERAL NOTES

1. STRUCTURAL DRAWINGS ARE TO BE COORDINATED AND USED IN CONJUNCTION WITH THE ARCHITECTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS. SEE MECHANICAL DRAWINGS FOR EQUIPMENT PADS, BASES, SUPPORTS, AND DUCT PENETRATIONS.

2. ARCHITECHNICS, INC. SHALL NOT BE RESPONSIBLE FOR, NOR HAVE CONTROL OR CHARGE OF CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES FOR THE SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THIS PROJECT, AND SHALL NOT BE RESPONSIBLE FOR CONTRACTOR'S FAILURE TO CARRY OUT HIS WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

3. ARCHITECHNICS, INC. SHALL NOT BE RESPONSIBLE FOR, NOR HAVE CONTROL OVER, THE ACTS OR OMISSIONS OF THE CONTRACTOR, SUBCONTRACTORS, ANY OF THEIR AGENTS, OR EMPLOYEES, OR ANY OTHER PERSONS PERFORMING ANY OF THE WORK, OR FOR THE FAILURE OF ANY OF THEM TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

4. THE CONTRACTOR SHALL PROVIDE AND BE RESPONSIBLE FOR ALL TEMPORARY SHORING AND BRACING REQUIRED FOR THE CONSTRUCTION OF THIS PROJECT. ALL SHORING AND BRACING MEMBERS AND CONNECTIONS SHALL BE OF SUFFICIENT STRENGTH TO SUPPORT THE IMPOSED LOADS. TEMPORARY MEMBERS AND CONNECTIONS SHALL NOT BE REMOVED UNTIL PERMANENT MEMBERS ARE IN PLACE AND FINAL CONNECTIONS ARE MADE.

5. CONTRACTOR SHALL VERIFY IN FIELD ALL DIMENSIONS, ELEVATIONS AND MEMBER SIZES AS SHOWN ON THE CONTRACT DRAWINGS FOR THE EXISTING CONSTRUCTION, PRIOR TO THE DETAILING OR FABRICATION OF ANY NEW STRUCTURAL ELEMENT. CONTRACTOR SHALL DOCUMENT ANY CONSTRUCTION-RELATED DISCREPANCIES. CONTRACTOR SHALL FURNISH THE ABOVE INFORMATION IN THE FORM OF DETAILED SKETCHES TO THE ARCHITECT / STRUCTURAL ENGINEER FOR REVIEW (28) CALENDAR DAYS PRIOR TO THE SCHEDULED START OF ANY DETAILING OR FABRICATION.

6. THE CONTRACTOR SHALL PROVIDE ALL MEASURES AND PRECAUTIONS NECESSARY TO PREVENT DAMAGE AND SETTLEMENT OF EXISTING OR NEW CONSTRUCTION INSIDE OR OUTSIDE THE PROJECT LIMITS DURING EXCAVATION AND FOUNDATION CONSTRUCTION. ANY DAMAGE TO NEW OR EXISTING CONSTRUCTION INSIDE OR OUTSIDE OF THE PROJECT LIMITS, CAUSED BY CONSTRUCTION TECHNIQUES IS THE RESPONSIBILITY OF THE CONTRACTOR.

7. NO FIELD MODIFICATIONS TO ANY STRUCTURAL COMPONENTS SHALL BE MADE WITHOUT PRIOR APPROVAL BY THE ARCHITECT / STRUCTURAL ENGINEER. THIS INCLUDES, BUT IS NOT LIMITED TO REVISIONS DUE TO MISLOCATION, MISFIT, OR ANY OTHER CONSTRUCTION ERRORS.

8. NO OPENING SHALL BE PLACED IN ANY STRUCTURAL MEMBER (OTHER THAN AS INDICATED ON APPROVED SHOP DRAWINGS) UNTIL THE LOCATION HAS BEEN APPROVED BY THE ARCHITECT / STRUCTURAL ENGINEER.

9. PROVIDE SLEEVE LAYOUTS FOR ALL PENETRATIONS THROUGH STRUCTURAL MEMBERS (ALL TRADES ARE INCLUDED). LAYOUTS ARE TO BE SUBMITTED TO THE ARCHITECT / STRUCTURAL ENGINEER FOR REVIEW PRIOR TO CONSTRUCTION.

10. SUPPORT ALL ROOF MOUNTED EQUIPMENT OR EQUIPMENT SUSPENDED FROM FLOORS OR THE ROOF ONLY ON/FROM BEAMS DESIGNATED FOR SUCH PURPOSE. IF NO SUPPORT HAS BEEN DESIGNATED, OR IF A QUESTION ARISES, NOTIFY ARCHITECT / STRUCTURAL ENGINEER PRIOR TO ERECTION OF EQUIPMENT.

11. ALL DETAILS, SECTIONS, AND NOTES ON THE DRAWINGS ARE INTENDED TO BE TYPICAL FOR SIMILAR SITUATIONS ELSEWHERE, UNLESS OTHERWISE NOTED. FOR DETAILS AND DIMENSIONS NOT INDICATED ON THE STRUCTURAL DRAWINGS, SEE THE ARCHITECTURAL DRAWINGS.

12. MATERIALS AND EQUIPMENT SHALL BE STORED AND TRANSPORTED IN A MANNER SO AS NOT TO EXCEED THE ALLOWABLE FLOOR OR ROOF LOADING INDICATED IN THE "SCHEDULE OF BUILDING DESIGN LOADS" ON THE CONSTRUCTION DOCUMENTS OR THE ALLOWABLE CAPACITY OF THE CONSTRUCTED MEMBER, WHICHEVER IS SMALLER.

SHOP DRAWINGS

1. ALL SHOP DRAWING SUBMITTALS SHALL BE AS DESCRIBED IN THE PROJECT SPECIFICATIONS OR IN THESE NOTES IF THERE IS NO PROJECT SPECIFICATION.

2. SHOP DRAWINGS AND RELATED MATERIALS PREPARED BY SUPPLIERS AND SUBCONTRACTORS SHALL BE REVIEWED BY THE GENERAL CONTRACTOR PRIOR TO SUBMITTING TO THE ARCHITECT / STRUCTURAL ENGINEER. THE GENERAL CONTRACTOR SHALL REVIEW ALL SUBMISSIONS FOR CONFORMANCE WITH THE CONTRACT DOCUMENTS, MEANS, METHODS, TECHNIQUES, SEQUENCES, AND OPERATION OF CONSTRUCTION, TECHNICAL CONTENT, COORDINATION OF TRADES, DIMENSIONAL ACCURACY, SAFETY PRECAUTIONS AND PROGRAMS INCIDENTAL THERETO, ALL OF WHICH ARE THE SOLE RESPONSIBILITY OF THE GENERAL CONTRACTOR. THE GENERAL CONTRACTOR SHALL APPROVE AND SO STAMP EACH SUBMISSION

3. THE STRUCTURAL DRAWINGS SHALL NOT BE USED AS THE BACKGROUNDS FOR THE PRODUCTION OF ANY SHOP DRAWINGS THAT ARE SUBMITTED FOR REVIEW.

4. SUBMIT (1) ONE REPRODUCIBLE AND (1) PRINT FOR REVIEW. (1) ONE REPRODUCIBLE WILL BE RETURNED UPON COMPLETION OF REVIEW. MULTIPLE COPIES OF DRAWINGS WILL NOT BE MARKED-UP WITH REVIEW COMMENTS.

5. ANY DEVIATIONS FROM THE ORIGINAL DESIGN OR DESIGN CRITERIA AS SPECIFIED ON THE CONTRACT DOCUMENTS OF THE PROJECT SHALL BE NOTED (BUBBLED, NOTE, ETC.) ON THE SHOP DRAWINGS THAT ARE SUBMITTED FOR APPROVAL.

6. ALL CHANGES TO RESUBMITTED SHOP DRAWINGS SHALL BE BUBBLED.

FOUNDATIONS

1. FOUNDATION STRUCTURE IS BASED ON THE USE OF CONTINUOUS STRIP FOOTINGS AND/OR SPREAD FOOTINGS APPLYING A MAXIMUM PRESSURE OF 1500 POUNDS PER SQUARE FOOT TO THE SOIL.

2. ALL ENGINEERED FILL IS TO BE COMPACTED TO ACHIEVE THIS BEARING PRESSURE AS VERIFIED BY FIELD TESTING BY A LICENSED GEOTECHNICAL ENGINEER. IF FIELD CONDITIONS DO NOT PROVIDE THIS MINIMUM VALUE, THE ARCHITECT AND ARCHITECT / STRUCTURAL ENGINEER SHOULD BE NOTIFIED IMMEDIATELY.

3. SHOULD UNSUITABLE BEARING CONDITIONS BE ENCOUNTERED DURING EXCAVATION, NOTIFY THE OWNER, ARCHITECT, AND ARCHITECT / STRUCTURAL ENGINEER BEFORE CONTINUING WITH CONSTRUCTION.

4. THE CONCRETE FOR EACH ISOLATED FOOTING SHALL BE PLACED IN ONE (1) CONTINUOUS PLACEMENT.

5. ALL SLABS-ON-GRADE SHALL BE PLACED OVER AN EXTREME LOW PERMEANCE VAPOR BARRIER, 15 MIL MINIMUM THICKNESS, OVER A BASE/SUBBASE AS SPECIFIED BY THE GEOTECHNICAL ENGINEER FOR THE PROJECT. EXISTING SUBBASE WILL BE COMPACTED IN PLACE OR WILL BE CUT OUT AND REPLACED WITH AN ENGINEERED FILL AS SPECIFIED BY A GEOTECHNICAL ENGINEER.

6. DO NOT BACKFILL AGAINST BASEMENT WALLS UNTIL THE PERMANENT BELOW GRADE LATERAL BRACING SYSTEM AND THE FIRST FLOOR FRAMING AND SLAB ABOVE THE BASEMENT IS IN PLACE AND THE CONCRETE HAS ATTAINED FULL DESIGN STRENGTH.

7. THE CONTRACTOR MUST PROVIDE SURFACE DRAINAGE AND PUMPS TO PROTECT ALL EXCAVATION FROM FLOODING. FLOODING OF ANY EXCAVATION AFTER APPROVAL OF THE SUBGRADE WILL BE CAUSE FOR COMPLETE RE-PREPARATION AND RE-APPROVAL OF THE SUBGRADE.

FOUNDATIONS (con't.)

8. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY MEASURES TO PREVENT ANY WATER, FROST OR ICE FROM PENETRATING ANY FOOTING OR SLAB SUBGRADE BEFORE AND AFTER PLACING OF CONCRETE AND UNTIL SUCH SUBGRADES ARE FULLY PROTECTED BY THE PERMANENT BUILDING STRUCTURE.

9. THE CONTRACTOR SHALL REVIEW ALL EXISTING SITE CONDITIONS AND THE SUBSURFACE SOILS EXPLORATION REPORT AND ESTABLISH SPECIFIC "CONSTRUCTION PROCEDURES AND SEQUENCES" FOR THE EXCAVATION, COMPACTION, FILL AND INSTALLATION OF THE NEW BUILDING FOUNDATION. SUBMIT THESE FOR REVIEW TO THE OWNER'S SOIL TESTING LABORATORY, OWNER'S REPRESENTATIVE, ARCHITECT / STRUCTURAL ENGINEER. THE CONTRACTOR'S DESIGN, MEANS AND METHODS FOR FOUNDATION CONSTRUCTION SHALL MINIMIZE SETTLEMENT OF ADJACENT CONSTRUCTION. THE CONTRACTOR SHALL BEAR SOLE RESPONSIBILITY FOR ALL REMEDIAL WORK RESULTING FROM SUCH SETTLEMENT.

10. RECORDS OF ANY EXISTING SUBGRADE INTERFERENCES OTHER THAN THOSE INTERFERENCES SHOWN OR INDICATED ON THE CONSTRUCTION DOCUMENTS, ARE NOT CURRENTLY AVAILABLE. DURING EXCAVATION WORK, INTERFERENCES MAY BE DISCOVERED. CONTRACTOR SHALL DOCUMENT CONSTRUCTION-RELATED DIMENSIONS OF ALL INTERFERENCES. CONTRACTOR TO FURNISH THE ABOVE INFORMATION IN THE FORM OF DETAILED SKETCHES TO THE ARCHITECT / STRUCTURAL ENGINEER FOR REVIEW.

11. REFER TO THE <u>TESTING AND INSPECTION</u> SECTION OF THESE NOTES FOR THE FOUNDATION TESTING AND INSPECTION REQUIREMENTS.

STRUCTURAL CONCRETE

1. CONCRETE MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE AMERICAN CONCRETE INSTITUTE PUBLICATIONS:

A. ACI 301 - "SPECIFICATIONS FOR STRUCTURAL CONCRETE A FOR BUILDINGS"
B. ACI 302 - "RECOMMENDED PRACTICE FOR CONCRETE FLOOR AND SLAB CONSTRUCTION"
C. ACI 304 - "ACI MANUAL OF CONCRETE INSPECTION"
D. ACI 311 - "RECOMMENDED PRACTICE FOR MEASURING, MIXING, TRANSPORTING AND PLACING CONCRETE"
E. ACI 315 - "DETAILS AND DETAILING OF CONCRETE REINFORCEMENT"
F. ACI 318 - "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE"
G. ACI 347 - "RECOMMENDED PRACTICE FOR CONCRETE FORMWORK"

2. PROVIDE CONCRETE TO OBTAIN THE FOLLOWING MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS:

A. SPREAD FOOTINGS........................f'c = 4000 PSI
B. WALL FOOTINGS........................f'c = 4000 PSI
C. COLUMNS........................f'c = 4000 PSI
D. SHEAR WALLS........................f'c = 4000 PSI
E. BEAMS AND GIRDERS........................f'c = 4000 PSI
F. STRUCTURAL SLABS........................f'c = 4000 PSI
G. SLABS-ON-METAL DECK....................f'c = 4000 PSI, LIGHTWEIGHT
H. INTERIOR CONCRETE STAIRS....................f'c = 4000 PSI
I. INTERIOR SLABS-ON-GRADE....................f'c = 4000 PSI
J. CAISSONS........................f'c = 4000 PSI
K. PILE CAPS........................f'c = 4000 PSI

3. EXTERIOR FLATWORK, STAIRS, RAMPS, ETC. SHALL HAVE A WATER/CEMENT RATIO$\leq$ 0.40

4. LABORATORY TEST REPORTS OR MATERIAL CERTIFICATES FOR CONCRETE MATERIALS AND MIX DESIGN TEST DATA, IN CONFORMANCE WITH ACI STANDARDS, SHALL BE SUBMITTED FOR REVIEW FOR EACH TYPE OF CONCRETE TO BE USED. EACH SUBMITTED MIX DESIGN SHALL IDENTIFY THE APPLICATION FOR WHICH THE MIX WILL BE USED.

5. ALL CONCRETE SHALL BE NORMAL WEIGHT UNLESS NOTED OTHERWISE.

6. ALL LIGHTWEIGHT CONCRETE SHALL HAVE A DENSITY OF 110 PCF ± 3 PCF UNLESS NOTED OTHERWISE.

7. ALL CONCRETE ELEMENTS SUBJECT TO FREEZING AND THAWING DURING CONSTRUCTION OR OVER THE SERVICE LIFE OF THE STRUCTURE SHALL CONTAIN AN AIR ENTRAINMENT ADMIXTURE AS SPECIFIED IN ACI-318, PART 3.

8. NO CALCIUM CHLORIDE SHALL BE USED IN ANY CONCRETE.

9. THE CONTRACTOR SHALL SUBMIT CHECKED, DETAILED REINFORCEMENT SHOP DRAWINGS SHOWING THE LOCATIONS AND DETAILING OF ALL FOOTINGS, WALLS, PIERS, BEAMS, COLUMNS, SLABS, CONSTRUCTION JOINTS, CONTROL JOINTS, ETC., PRIOR TO FABRICATION. DETAILS SHALL INCLUDE STEEL SIZES, LAPS, SPACING AND PLACEMENT.

10. THE MINIMUM CONCRETE COVER FOR CAST-IN-PLACE (NON-PRESTRESSED) CONCRETE SHALL BE IN ACCORDANCE WITH THE FOLLOWING:

A. CONCRETE CAST AGAINST AND
PERMANENTLY EXPOSED TO EARTH........................3"

B. CONCRETE EXPOSED TO EARTH OR WEATHER:
i. NO. 6 THROUGH NO. 18 BARS........................2"
ii. NO. 5 BAR, W31 OR D31 WIRE,
AND SMALLER........................1 1/2"

C. CONCRETE NOT EXPOSED TO WEATHER
OR IN CONTACT WITH GROUND:
i. SLABS, WALLS, JOISTS:
NO. 14 AND NO. 18 BARS........................1 1/2"
NO. 11 BAR AND SMALLER........................3/4"
ii. BEAMS, COLUMNS:
PRIMARY REINFORCEMENT, TIES,
STIRRUPS, SPIRALS........................1 1/2"
iii. SHELLS, FOLDED PLATE MEMBERS:
NO. 6 THROUGH NO. 18 BARS........................2"
NO. 5 BAR, W31 OR D31 WIRE,
AND SMALLER........................1 1/2"

11. PROVIDE ADEQUATE BOLSTERS, HI-CHAIRS, SUPPORT BARS, ETC., TO MAINTAIN SPECIFIED CLEARANCES FOR THE ENTIRE LENGTH OF ALL REINFORCING BARS. PROVIDE CONTINUOUS #4 SPACER BARS IN WALLS AND SLABS TO SUPPORT DOWELS.

12. PROVIDE PLASTIC TIPPED ACCESSORIES FOR REINFORCEMENT AT ALL FACES OF EXPOSED CONCRETE, INTERIOR OR EXTERIOR.

13. ALL FIELD BENDING OF REINFORCEMENT SHALL BE DONE COLD. HEATING OF BARS WILL NOT BE PERMITTED.

14. ALL CONSTRUCTION JOINTS, EXCLUDING SLAB-ON-GRADE CONSTRUCTION JOINTS, SHALL BE WIRE BRUSHED, CLEANED, MOISTENED AND A CONCRETE SLURRY APPLIED IMMEDIATELY PRIOR TO PLACING NEW CONCRETE.

15. CONTROL AND CONSTRUCTION JOINTS IN NON-STRUCTURAL SLABS-ON-GRADE SHALL BE PROVIDED AS SHOWN ON DRAWINGS AND DETAILS. CONTROL JOINTS SHALL BE SPACED AT A MAXIMUM OF 15'-0" ON CENTER IN ANY DIRECTION. SAWED CONTROL JOINTS SHALL BE OF THE SOFT-CUT TYPE, 0.25 TIMES THE SLAB THICKNESS DEEP, AND CUT AS SOON AS PRACTICAL WITHOUT DISLODGING THE COARSE AGGREGATE AS PART OF THE FINISHING OPERATION. CONTRACTOR SHALL SUBMIT DETAILED SHOP DRAWINGS INDICATING ALL CONTROL JOINTS FOR ALL SLAB-ON-GRADE CONSTRUCTION FOR REVIEW PRIOR TO CONSTRUCTING ALL SLABS-ON-GRADE.

16. CONCRETE SLABS-ON-GRADE SHALL BE A MINIMUM OF 5 INCH THICKNESS UNLESS NOTED OTHERWISE. CONCRETE FOR SLAB-ON-GRADE CONSTRUCTION SHALL USE A DESIGN MIX THAT INCORPORATES 1-1/2" MAXIMUM SIZE AGGREGATE, WELL GRADED AND TYPE I/II CEMENT. THE MIX SHALL CONTAIN NO ADMIXTURES THAT EXACERBATE SHRINKAGE. PLACEMENT SLUMP FOR THE CONCRETE SHALL BE 5" (+/- 1") MAX. AT THE POINT OF PLACEMENT.

17. CONSTRUCTION JOINTS SHALL CONTAIN 1/4"x4-1/2" DIAMOND DOWEL PLATES SPACED AT 18" ON CENTER AND PLACED AT 1/2 OF THE SLAB DEPTH PERPENDICULAR TO THE PLANE OF THE JOINT.

STRUCTURAL CONCRETE (con't.)

19. AT EXPOSED CONCRETE ELEMENTS, SEE PROJECT SPECIFICATIONS FOR TYPE OF CONCRETE FINISHING REQUIRED.

20. AT ALL EXPOSED TO VIEW CONCRETE ELEMENTS (i.e. BEAMS, GIRDERS, COLUMNS, TOP OF RETAINING WALLS.ETC.), PROVIDE 3/4" CHAMFER AT EDGES.

21. IF STRUCTURAL CONCRETE MEMBERS (FRAMED SLABS, WALLS, AND BEAMS) ARE NOT CONSTRUCTED IN ONE CONTINUOUS POUR THE VERTICAL CONSTRUCTION JOINT BETWEEN POURS SHALL BE CONTINUOUSLY KEYED, INTERMITENTLY KEYED FOR WALLS, AND PLACED WITHIN THE MIDDLE FIFTH OF SPANS AND SHALL BE SHORED UNTIL THE MEMBER HAS ATTAINED MINIMUM 28 DAY STRENGTH. SEE TYPICAL CONSTRUCTION JOINT DETAIL. OTHER LOCATIONS MUST BE REVIEWED BY THE ARCHITECT / STRUCTURAL ENGINEER. NO HORIZONTAL CONSTRUCTION JOINTS WILL BE PERMITTED IN BEAMS AND SLABS UNLESS SPECIFICALLY SHOWN ON THE DRAWINGS.

22. PITCH ALL SLABS TO DRAINS WHERE DRAINS ARE INDICATED ON CONTRACT DRAWINGS.

23. ADDITIONAL BARS SHALL BE PROVIDED AT ALL OPENINGS IN SLABS-ON-GRADE AND CONCRETE WALLS. AT ALL OPENINGS, PROVIDE MINIMUM OF (2) - #4 BARS AT EACH SIDE EXTENDING 2'-0 BEYOND EACH SIDE OF OPENING.

24. ADDITIONAL BARS PROVIDED: CORNER BARS MATCHING TO HORIZONTAL BARS SHALL BE PROVIDED AT ALL WALL CORNERS AND INTERSECTIONS.

25. AT SLABS-ON-GRADE PROVIDE ADDITIONAL REINFORCING AT RE-ENTRANT CORNERS. PROVIDE MINIMUM OF (2) - #4 BARS, 4'-0 LONG CENTERED ABOUT CORNER.

26. NO ALUMINUM OF ANY TYPE SHALL BE ALLOWED IN THE CONCRETE WORK, UNLESS COATED TO PREVENT ALUMINUM CONCRETE REACTION.

27. IN NO CASE SHALL EMBEDDED CONDUIT BE PLACED ABOVE REINFORCING IN SLAB-ON-GRADE CONSTRUCTION. MINIMUM SPACING OF ADJACENT CONDUITS SHALL BE 3 TIMES THE DIAMETER OR WIDTH OF THE LARGEST CONDUIT. MAXIMUM OUTSIDE DIAMETER OF EMBEDDED CONDUIT SHALL BE NO LARGER THAN ONE-THIRD OF THE SLAB THICKNESS.

28. IN ELEVATED STRUCTURAL SLABS, NO CONDUITS SHALL BE PLACED CLOSER TO A COLUMN FACE THAN TWELVE INCHES.

29. ELECTRICAL CONDUITS AND PLUMBING PIPES IN ELEVATED STRUCTURAL SLABS SHALL BE PLACED BETWEEN THE TOP AND BOTTOM LAYERS OF REINFORCEMENT AND SHALL NOT HAVE AN OUTSIDE DIAMETER GREATER THAN ONE-THIRD THE SLAB THICKNESS. CROSSOVERS OF CONDUITS AND/OR PIPES SHALL NOT BE PERMITTED. THE CENTER-TO-CENTER DISTANCE BETWEEN CONDUITS AND/OR PLUMBING PIPES SHALL NOT BE LESS THAN 3 TIMES THE LARGEST CONDUIT OR PIPE DIAMETER OR WIDTH.

30. UNLESS OTHERWISE NOTED ON THE DRAWINGS, SLEEVES FOR PIPES AND CONDUITS PENETRATING GRADE BEAMS AND CONCRETE WALLS SHALL BE STEEL PIPE SLEEVES OF NOMINAL DIAMETER 2 INCHES LARGER THAN THE NOMINAL SIZE OF THE PIPE PENETRATING THE STRUCTURAL MEMBER. THE THICKNESS OF THE SLEEVE SHALL CONFORM TO SCHEDULE 40 BUT NEED NOT BE MORE THAN 3/8 INCH. ALL SUCH SLEEVE LOCATIONS SHALL BE REVIEWED BY THE ARCHITECT/ENGINEER PRIOR TO INSTALLATION.

31. PROVIDE WATERSTOPS AT ALL CONSTRUCTION JOINTS LOCATED BELOW GRADE AS SHOWN ON THE DRAWINGS.

32. CONCRETE SLAB OPENINGS SHOWN ON STRUCTURAL DRAWINGS ARE TO BE CONFIRMED WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS PRIOR TO CONSTRUCTION. ALL SLAB OPENINGS ARE TO BE DETAILED AND DIMENSIONED (I.E. SIZED AND LOCATED) ON REBAR SHOP DRAWING SUBMITTALS FOR CONFIRMATION WITH STRUCTURAL DRAWINGS. SHOULD ANY OPENING LOCATION OR DIMENSION CHANGE FROM LOCATIONS AND DIMENSIONS SHOWN ON THE STRUCTURAL DRAWINGS, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT / STRUCTURAL ENGINEER AND ARCHITECT PRIOR TO PROCEEDING. ANY NECESSARY DESIGN REVISIONS WILL BE ISSUED BY THE ARCHITECT / STRUCTURAL ENGINEER OF RECORD.

33. WHERE SLABS ARE TO BE CAMBERED, THE CONSTRUCTED THICKNESS SHALL BE CONSTANT THROUGHOUT THE SPAN AS SHOWN ON THE STRUCTURAL DRAWINGS.

34. SLABS AND BEAMS SHALL BE CAMBERED TO COMPENSATE FOR CONSTRUCTION LOADS AND ANY DEFLECTION OF THE SHORING/FORMWORK SYSTEM. THIS CAMBER SHALL BE IN ADDITION TO ANY CAMBER SHOWN ON THE STRUCTURAL DRAWINGS.

35. REFER TO THE SPECIFICATION FOR FLOOR FLATNESS AND FLOOR LEVELNESS REQUIREMENTS.

36. NO CONSTRUCTION SHALL BE MADE WITHOUT REINFORCEMENT. UNLESS OTHERWISE NOTED, THE FOLLOWING PERCENTAGE OF THE GROSS CROSS SECTIONAL AREA SHALL BE PROVIDED AS MINIMUM REINFORCEMENT:

A. SLABS: TOP & BOTTOM........................0.20%
B. BEAMS: TOP & BOTTOM........................0.33%
STIRRUPS........................#3@D" (D=MEMBER DEPTH)
C. COLUMNS: VERTICAL........................1.00%
TIES........................#3@10"
D. WALLS: VERTICAL........................0.12% (#5's)
HORIZONTAL........................0.20% (#5's)
E. FOOTINGS: HORIZONTAL........................0.18% (#5's)

37. ALL REINFORCING STEEL SHALL BE HIGH STRENGTH NEW BILLET STEEL, CONFORMING TO ASTM A615 GRADE 60 UNLESS NOTED OTHERWISE.

38. ALL BAR DETAILING AND ACCESSORIES TO BE FURNISHED SHALL CONFORM TO TYPICAL DETAILS IN THE LATEST ACI STANDARD 315 DETAILING MANUAL, EXCEPT AS OTHERWISE SHOWN, NOTED, OR SPECIFIED.

39. WELDED WIRE FABRIC SHALL CONFORM TO ASTM SPECIFICATIONS A185. ALL WELDED WIRE FABRIC SHALL BE LAPPED TWO PANELS AT EDGES AND ENDS, AND TIED SECURELY. AT EXTERIOR SLABS PROVIDE EPOXY COATED WELDED WIRE FABRIC CONFORMING TO ASTM A884, CLASS A.

40. DETAILING AND ACCESSORIES SHALL CONFORM TO THE ACI DETAILING MANUAL AND TO THE CRSI MANUAL OF STANDARD PRACTICE. CURRENT EDITIONS, UNLESS OTHERWISE NOTED BELOW, ON THE DRAWINGS, OR IN THE SPECIFICATIONS.

41. ALL HOOKS SHALL BE "STANDARD" AS PER ACI STANDARD.

42. THE MINIMUM LENGTH OF ALL SPLICES NOT DIMENSIONED ON THE DRAWINGS SHALL BE AS FOLLOWS:

BAR SIZE	f'c	SLAB/BEAM		WALL		COLUMN VERTICAL
		TOP	OTHER	VERT.	HORIZ.	
#4	4000	26"	21"	21"	26"	-
	5000	24"	19"	19"	24"	
	6000	23"	17"	17"	23"	
#5	4000	33"	25"	25"	33"	19"
	5000	30"	23"	23"	30"	
	6000	28"	21"	21"	28"	
#6	4000	39"	30"	30"	39"	23"
	5000	36"	28"	28"	36"	
	6000	33"	25"	25"	33"	
#7	4000	71"	55"	55"	71"	27"
	5000	64"	50"	50"	64"	
	6000	59"	45"	45"	59"	
#8	4000	81"	63"	63"	81"	30"
	5000	73"	56"	56"	73"	
	6000	67"	51"	51"	67"	
#9	4000	91"	71"	71"	91"	34"
	5000	82"	63"	63"	82"	
	6000	75"	58"	58"	75"	
#10	4000	102"	78"	78"	102"	38"
	5000	90"	71"	71"	90"	
	6000	82"	64"	64"	82"	
#11	4000	111"	86"	86"	111"	42"
	5000	99"	77"	77"	99"	
	6000	91"	71"	71"	91"	

<u>NOTES:</u>
A. TOP BARS ARE HORIZONTAL BARS PLACED SUCH THAT MORE THAN 12" OF CONCRETE IS CAST IN THE MEMBER BELOW THE SPLICE.

B. FOR EPOXY COATED BARS MULTIPLY THE LAP LENGTHS SHOWN IN THE TABLE ABOVE BY 1.3 FOR TOP BARS AND 1.5 FOR OTHER BARS.

C. WHERE BARS OF DIFFERENT SIZE ARE TO BE SPLICED, THE SPLICE LENGTH FOR ALL BARS SHALL BE THAT REQUIRED FOR THE LARGER BAR.

D. SPLICE LENGTHS SHALL BE SPECIFICALLY DIMENSIONED AT ALL LOCATIONS ON THE SHOP DRAWINGS.

E. FOR CONCRETE STRENGTH BETWEEN LISTED VALUES, USE MINIMUM SPLICE LENGTH OF HIGHER LISTED VALUE.

43. MECHANICAL COUPLERS MAY BE USED IN LIEU OF LAP SPLICES. MECHANICAL COUPLERS MUST BE CAPABLE OF SUSTAINING 125% OF THE BAR CAPACITY

44. CONTINUOUS TOP AND BOTTOM BARS, OTHER THAN IN FOOTINGS, WHEN SHOWN IN CROSS SECTION ONLY, SHALL BE LAPPED AS FOLLOWS:

A. TOP BARS AT MID SPANS
B. BOTTOM BARS CENTERED OVER SUPPORTS.

45. EPOXY ADHESIVE EMBEDDED DOWELS SHALL USE HILTI HY 150 ADHESIVE WITH THE FOLLOWING MINIMUM EMBEDDMENT DEPTHS, UNLESS NOTED OTHERWISE:

#3 - 3"	#8 - 9"
#4 - 5"	#9 - 10"
#5 - 6"	#10 - 12"
#6 - 7"	#11 - 14"
#7 - 8"	

46. REFER TO THE <u>TESTING AND INSPECTION</u> SECTION OF THESE NOTES FOR THE CONCRETE TESTING AND INSPECTION REQUIREMENTS.

POST INSTALLED ANCHORS

1. WHERE EPOXY SYSTEM IS INDICATED ON THE PLANS OR DETAILS, USE HILTI HY-150 ADHESIVE IN CONCRETE AND SOLID GROUTED MASONRY UNLESS NOTED OTHERWISE. THE CONTRACTOR MAY SUBMIT SUBSTITUTE EPOXY SYSTEMS FOR APPROVAL PROVIDED THEY MEET OR EXCEED THE CAPACITY OF HILTI HY-150 ADHESIVE.

2. DRILL HOLES TO EPOXY MANUFACTURER'S RECOMMENDED SIZE. CLEAN HOLES WITH A CIRCULAR WIRE OR NYLON BRUSH AND BLOW OUT WITH COMPRESSED AIR.

3. WHERE MECHANICAL EXPANSION ANCHORS ARE INDICATED ON THE PLANS OR DETAILS, USE HILTI KWIK BOLT-III IN CONCRETE UNLESS NOTED OTHERWISE. THE CONTRACTOR MAY SUBMIT SUBSTITUTE EXPANSION ANCHOR SYSTEMS FOR APPROVAL PROVIDED THEY MEET OR EXCEED THE CAPACITY OF HILTI KWIK BOLT III'S.

4. POST INSTALLED ANCHORS MUST BE INSTALLED USING THE SPACING AND EDGE DISTANCES GIVEN ON THE PLANS OR DETAILS. IF FIELD CONDITIONS DICTATE THAT THE ANCHOR SPACING OR EDGE DISTANCES BE MODIFIED, THE CONTRACTOR SHALL SUBMIT A FIELD SKETCH TO THE ARCHITECT / STRUCTURAL ENGINEER FOR REVIEW PRIOR TO MAKING ANY MODIFICATIONS.

STRUCTURAL STEEL

1. FURNISH STRUCTURAL STEEL IN ACCORDANCE WITH AISC SPECIFICATIONS FOR THE DESIGN (ASD OR LRFD), FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS AND AISC CODE OF STANDARD PRACTICE, LATEST EDITIONS.

2. THE STEEL FABRICATOR/ERECTOR SHALL VERIFY IN FIELD ALL DIMENSIONS, ELEVATIONS AND MEMBER SIZES AS SHOWN ON THE CONTRACT DRAWINGS FOR THE EXISTING CONSTRUCTION, PRIOR TO THE DETAILING OR FABRICATION OF ANY NEW STRUCTURAL ELEMENT. THE STEEL FABRICATOR/ERECTOR SHALL DOCUMENT ANY CONSTRUCTION RELATED DISCREPANCIES. THE STEEL FABRICATOR/ERECTOR SHALL FURNISH THE ABOVE INFORMATION IN THE FORM OF DETAILED SKETCHES TO THE ARCHITECT / STRUCTURAL ENGINEER FOR REVIEW. THERE SHALL BE RESOLUTION TO THE NOTED DISCREPANCIES PRIOR TO FABRICATION OF ANY NEW STRUCTURAL ELEMENTS.

3. STRUCTURAL STEEL SHALL BE AS INDICATED BELOW U.N.O.:

STRUCTURAL SHAPE/MATERIAL	ASTM SPECIFICATION
W-SHAPE	A992
CHANNELS	A36
ANGLES	A36
STEEL PIPE	A53, GRADE B
ROUND HSS	A500, GRADE B
SQUARE & RECTANGULAR HSS	A500, GRADE B
PLATE MATERIAL	A36
ANCHOR BOLT ASSEMBLIES	F1554, GRADE 36

4. ALL STRUCTURAL STEEL FRAMEWORK INCLUDED IN THESE DOCUMENTS ARE CLASSIFIED AS NON-SELF-SUPPORTING. ALL CONNECTIONS SPECIFIED HEREIN ARE BASED ON LOADING CONDITIONS OF THE FULLY COMPLETED STRUCTURE IN ITS ENTIRETY INCLUDING THE FUNCTIONS OF THE COLUMN BASE PLATES AND ANCHOR BOLTS. INSTABILITIES CAN BE EXPECTED DURING THE ERECTION PROCESS DUE TO LACK OF INSTALLED ROOF, FLOOR, WALL AND SLAB DIAPHRAGMS AS WELL AS STEEL BRACINGS, CONNECTION RIDIGITIES AND OTHER SUCH STABILIZING ELEMENTS. THE GENERAL CONTRACTORRS, OTHERÛ SHALL IDENTIFY THE SEQUENCE AND SCHEDULING OF CONSTRUCTION ITEMS AND COORDINATE THE ACTIVITIES OF ALL TRADES INCLUDING THE STEEL FABRICATOR AND ERECTOR. THE ERECTOR SHALL SUBMIT AN ERECTION PLAN AND A TEMPORARY BRACING SCHEME TO THE CONTRACTOR AND OWNER WHICH IS FOR RECORD PURPOSES ONLY. THIS SUBMITTAL WILL NOT BE REVIEWED AND IS NOT A DESIGN FUNCTION OF THE ARCHITECT / STRUCTURAL ENGINEEROF RECORD.

5. THE FABRICATOR/ERECTOR SHALL SUBMIT TO THE ARCHITECT/STRUCTURAL ENGINEER, FOR REVIEW, ENGINEERED AND CHECKED DRAWINGS SHOWING FABRICATION DETAILS, FIELD ASSEMBLY DETAILS AND ERECTION DIAGRAMS FOR ALL STRUCTURAL STEEL ELEMENTS.

6. ALL BEAMS AND JOISTS SHALL BE FABRICATED WITH THE NATURAL CAMBER UP. PROVIDE FABRICATED CAMBERS AS INDICATED ON THE DRAWINGS.

7. AFTER FABRICATION, ALL STEEL SHALL BE CLEANED OF ALL RUST, LOOSE MILL SCALE, AND OTHER FOREIGN MATERIALS. STEEL SHALL BE PRIMED AND PAINTED AS OUTLINED IN THE PROJECT SPECIFICATIONS. STEEL TO RECEIVE SPRAY-ON FIREPROOFING SHALL NOT BE PRIMED OR PAINTED.

8. WELDING SHALL BE PERFORMED WITH E70XX LOW HYDROGEN ELECTRODES. ALL WELDING SHALL BE PERFORMED BY CERTIFIED/QUALIFIED WELDERS AND SHALL CONFORM TO THE AWS D1.1," STRUCTURAL WELDING CODE-STEEL," LATEST EDITION.

9. MINIMUM FILLET WELD SIZE SHALL COMPLY WITH THE AISC SPECIFICATION REQUIREMENTS, BUT SHALL NOT BE LESS THAN 3/16 INCH UNLESS NOTED OTHERWISE.

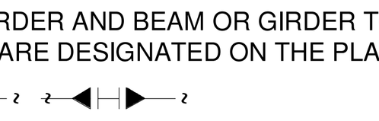
10. ALL BOLTS, NUTS AND WASHERS SHALL CONFORM TO THE REQUIREMENTS OF "AISC SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS," LATEST EDITION. ALL BOLT HOLES SHALL BE "SHORT SLOTTED", UNLESS NOTED OTHERWISE.

11. ALL STEEL BEAM AND GIRDER CONNECTIONS SHALL BE SIMPLE SHEAR CONNECTIONS UTILIZING HIGH STRENGTH BOLTS IN BEARING-TYPE CONNECTIONS WITH THREADS EXCLUDED FROM THE SHEAR PLANE UNLESS NOTED OTHERWISE. BOLTS ARE TO BE TIGHTENED TO THE "SNUG TIGHT" CONDITION UNLESS NOTED AS "SLIP CRITICAL (SC)". BOLTS DESIGNATED AS "SLIP CRITICAL" ARE TO BE TIGHTENED PER THE ABOVE MENTIONED BOLT SPECIFICATION.

12. BOLTED CONNECTIONS SHALL USE A MINIMUM OF (2) 3/4"∅ BOLTS UNLESS NOTED OTHERWISE.

13. PROVIDE CONNECTIONS AS DETAILED ON THE DESIGN DRAWINGS. ALTERNATE CONNECTION DESIGNS MAY BE SUBMITTED BY THE CONTRACTOR. THE ALTERNATE DESIGNS MUST BE PROPERLY ENGINEERED AND CALCULATIONS SEALED BY A QUALIFIED ARCHITECT / STRUCTURAL ENGINEER LICENSED IN THE STATE IN WHICH THE PROJECT IS LOCATED. THE DESIGN BY THE SPECIALTY ARCHITECT / STRUCTURAL ENGINEER AND THE REVIEW BY THE ARCHITECT / STRUCTURAL ENGINEER OF RECORD OF ANY ALTERNATE CONNECTIONS WILL BE AT THE CONTRACTOR'S EXPENSE.

14. BEAM TO GIRDER AND BEAM OR GIRDER TO COLUMN MOMENT CONNECTIONS ARE DESIGNATED ON THE PLANS AS THUS:



15. AT COMPOSITE BEAM CONSTRUCTION PROVIDE 3/4"∅ HEADED SHEAR STUDS UNIFORMLY SPACED AT 1'-0" ON CENTER MINIMUM ON ALL BEAMS UNLESS NOTED OTHERWISE.

16. THERE SHALL BE NO FIELD CUTTING OF STRUCTURAL STEEL MEMBERS FOR THE WORK OF OTHER TRADES WITHOUT THE PRIOR APPROVAL OF THE ARCHITECT / STRUCTURAL ENGINEER OF RECORD.

17. STEEL WORK TO SLOPE IN ACCORDANCE WITH ELEVATIONS GIVEN ON STRUCTURAL DRAWINGS.

18. REFER TO ARCHITECTURAL DRAWINGS FOR MISCELLANEOUS STEEL NOT SHOWN ON STRUCTURAL DRAWINGS.

19. ALL STEEL INDICATED TO BE ARCHITECTURALLY EXPOSED STRUCTURAL STEEL (AESS) SHALL CONFORM TO THE AESS REQUIREMENTS OF THE AISC CODE OF STANDARD PRACTICE.

20. PAINT SYSTEM FOR "EXPOSED TO OUTSIDE ATMOSPHERE" STRUCTURAL STEEL COMPONENTS:

A. SURFACE PREPARATION - CLEAN SURFACES PER SSPC SP NO. 6 POWER TOOL CLEANING.
B. PRIME COAT: MINIMUM DRY FILM THICKNESS = 1.75 MILS. SHOP PRIME SURFACES OF STEEL AS REQUIRED BY PROJECT SPECIFICATIONS. USE PRIME COAT COMPATIBLE WITH FIREPROOFING SYSTEM WHERE APPLICABLE.
C. FINISH COAT: SEE PROJECT SPECIFICATIONS.

21. REFER TO THE <u>TESTING AND INSPECTION</u> SECTION OF THESE NOTES FOR THE STRUCTURAL STEEL TESTING AND INSPECTION REQUIREMENTS.

TESTING AND INSPECTIONS

1. ALL TESTING SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THE DESIGN CODE REFERENCED IN ITEM 1. OF THE STRUCTURAL LOADING SECTION OF THESE NOTES.

2. ALL TESTING SHALL BE PERFORMED BY A QUALIFIED <u>TESTING AGENCY</u> HIRED BY THE OWNER.

3. THE ARCHITECT / STRUCTURAL ENGINEER SHALL BE NOTIFIED OF ANY ITEM FOUND NOT TO BE IN COMPLIANCE WITH THE DESIGN INTENT OF THESE DOCUMENTS.

FOUNDATIONS

4. ALL FOUNDATION EXCAVATIONS SHALL BE OBSERVED AND TESTED BY A REPRESENTATIVE OF A QUALIFIED GEOTECHNICAL ENGINEERING FIRM. DAILY REPORTS OF OBSERVATIONS SHALL BE PREPARED. ALL REPORTS ARE TO BE SUBMITTED TO THE ARCHITECT / STRUCTURAL ENGINEER FOR REVIEW. THE REQUIRED TEST TYPE AND FREQUENCY SHALL BE AS SPECIFIED IN THE PROJECT SPECIFICATIONS.

CONCRETE

5. ALL CONCRETE PLACED ON THE PROJECT SHALL BE TESTED FOR SLUMP, AIR CONTENT AND STRENGTH. THE FREQUENCY OF TESTING SHALL BE AS SPECIFIED IN THE PROJECT SPECIFICATION.

6. REINFORCEMENT PLACEMENT SHALL BE INSPECTED BY THE OWNER'S TESTING LABORATORY PRIOR TO ALL CONCRETE POURS. SEE THE SPECIFICATIONS FOR REQUIREMENTS.

STRUCTURAL STEEL

7. THE OWNER'S TESTING AGENCY SHALL PERFORM ALL SHOP AND FIELD INSPECTION AND TESTING AS OUTLINED BELOW. REPORTS ARE TO BE SUBMITTED TO THE OWNER, ARCHITECT / STRUCTURAL ENGINEER AND CONTRACTOR FOR REVIEW. THE STRUCTURAL STEEL FABRICATOR AND ERECTOR SHALL SCHEDULE ALL WORK TO ALLOW THE FOLLOWING TESTING REQUIREMENTS.

A. ALL WELDS SHALL BE VISUALLY INSPECTED. 15% AT RANDOM SHALL BE MEASURED.
B. FILLET WELDS FOR BEAM AND GIRDER SHEAR CONNECTION PLATES, 15% AT RANDOM, SHALL BE CHECKED BY MAGNETIC PARTICLE FOR FINAL PASS ONLY.
C. 100% OF ALL FULL PENETRATION WELDS SHALL BE ULTRASONICALLY TESTED.
D. 25% OF THE BOLTS, NO LESS THAN (2) BOLTS, IN EACH "SLIP CRITICAL" CONNECTIONS SHALL BE CHECKED BY CALIBRATED TORQUE WRENCH.
E. FOR NON-"SLIP CRITICAL" CONNECTIONS, INSPECT CONNECTION TO INSURE THE PLIES OF THE CONNECTED ELEMENTS HAVE BEEN BROUGHT INTO SNUG CONTACT.
F. ULTRASONICALLY TEST FOR LAMINATIONS IN ALL COLUMN FLANGES GREATER THAN 1.5 INCHES THICK AT ALL MOMENTS CONNECTION AREAS.

COLD FORMED STEEL FRAMING

1. FURNISH COLD FORM STEEL FRAMING IN ACCORDANCE WITH AMERICAN IRON AND STEEL INSTITUTE, "SPECIFICATION FOR THE DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS," LATEST EDITION.

2. COLD FORM STEEL FRAMING SHALL BE MANUFACTURED BY UNIMAST OR APPROVED EQUAL.

MEMBER DESIGNATION IS AS SUCH:
600S200-54
SIZE: 600 = 6" WEB
200 = 2" FLANGE
TYPE: S = STUD OR JOIST
GAUGE: 54 = 16 GAUGE

3. ALL MEMBERS SHALL BE FORMED FROM CORROSION RESISTANT STEEL CORRESPONDING TO THE REQUIREMENTS OF ASTM A446, WITH MINIMUM YIELD STRENGTH OF 50 KSI.

4. ALL MEMBERS SHALL BE ZINC COATED MEETING ASTM A525.

5. FASTENING OF COMPONENTS SHALL BE WITH SELF DRILLING SCREWS OR WELDING. SCREWS AND WELDING SHALL BE SUFFICIENT SIZE TO ENSURE THE STRENGTH OF THE CONNECTION. WIRE TYING OF COMPONENTS SHALL NOT BE PERMITTED. ALL WELDS SHALL BE TOUCHED-UP WITH A ZINC RICH PAINT.

6. ALL WELDING SHALL BE PERFORMED BY QUALIFIED WELDERS AND SHALL CONFORM TO THE AWS D1.3," STRUCTURAL WELDING CODE-SHEET STEEL," LATEST EDITION.

7. CONNECTIONS OF ALL LIGHT GAUGE FRAMING TO LIGHT GAUGE FRAMING SHALL BE WITH MINIMUM OF THREE (3) #10 SELF TAPPING SHEET METAL SCREWS WITH LOW PROFILE HEAD, UNLESS NOTED OTHERWISE.

8. CONTRACTOR SHALL SUBMIT COLD FORM STEEL FRAMING SHOP DRAWINGS TO THE ARCHITECT / STRUCTURAL ENGINEER FOR REVIEW PRIOR TO COMMENCING CONSTRUCTION.

9. CONNECTIONS OF ALL LIGHT GAUGE FRAMING TO STRUCTURAL STEEL FRAMING SHALL BE WITH MINIMUM OF THREE (3) 0.145"∅ POWDER-ACTUATED FASTENING PINS, UNLESS NOTED OTHERWISE.

10. CONTRACTOR SHALL SUBMIT EXTERIOR WALL COLD FORM STEEL FRAMING SHOP DRAWINGS TO THE ARCHITECT / STRUCTURAL ENGINEER FOR REVIEW PRIOR TO COMMENCING CONSTRUCTION.

11. DEFLECTION OF COLD FORM STEEL MEMBERS SHALL BE LIMITED TO L/360 OR 3/8 INCH, WHICHEVER IS SMALLER, EXCEPT IN LOCATIONS WHERE BRICK VENEER IS INDICATD IN WHICH CASE DEFLECTION SHALL BE LIMITED TO L/600 OR 0.3 INCH, WHICHEVER IS SMALLER.

PLYWOOD

1. ALL STRUCTURAL PLYWOOD SHALL BE GRADE CC EXTERIOR OR CD INTERIOR WITH EXTERIOR GLUE. ALL PLYWOOD SHALL CONFORM TO U.S. PRODUCT STANDARD PS1-83, AND SHALL BE IDENTIFIED WITH THE GRADE TRADEMARK OF THE AMERICAN PLYWOOD ASSOCIATION.

2. ALL STRUCTURAL PLYWOOD NOTED ON THE DRAWINGS SHALL CONFORM TO THE FOLLOWING:

A. ROOF SHEATHING - 3/4" THICKNESS - 32/16 SPAN RATING
B. WALL SHEATHING - 5/8" THICKNESS - 24/0 SPAN RATING

3. UNLESS OTHERWISE NOTED, PLYWOOD NAILS SHALL BE COMMON. APPROVED FASTENERS TO BE SUBSTITUTED SHALL BE EQUIVALENT IN LATERAL AND WITHDRAWAL STRENGTH TO THE SIZE COMMON NAIL SPECIFIED.

4. ROOF SHEATHING: PLYWOOD ROOF SHEATHING SHALL BE LAID WITH THE GRAIN OF THE OUTER PLIES PERPENDICULAR TO THE FRAMING MEMBERS AND END JOINTS SHALL BE STAGGERED. EDGE BLOCKING OF UNSUPPORTED EDGES OF PLYWOOD SHEATHING MAY BE OMITTED. PLYCLIPS OR APPROVED EQUAL CONNECTORS SHALL BE INSTALLED AT MIDSPAN BETWEEN EACH SUPPORT WHEN RAFTER SPACING EXCEEDS 16", ----- OR ----- BLOCK ALL UNSUPPORTED EDGES OF PLYWOOD SHEATHING WHERE SHOWN ON PLANS. TYPICAL NAILING SHALL BE 8d AT 6" O.C. AT ALL SUPPORTED EDGES AND WHERE EDGE NAILING IS NOTED, AND 8d AT 12" O.C. AT ALL INTERMEDIATE SUPPORTS.

5. WALL SHEATHING: WALL SHEATHING MAY BE APPLIED HORIZONTALLY OR VERTICALLY. BLOCK ALL UNSUPPORTED EDGES OF PLYWOOD SHEATHING. TYPICAL NAILING SHALL BE #10 SCREW AT 6" O.C. ALL EDGES, AND #10 SCREW AT 12" O.C. ALL INTERMEDIATE SUPPORTS, UNLESS OTHERWISE NOTED.

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RALLS COUNTY R-II SCHOOL DISTRICT
NEW HIGH SCHOOL ADDITIONS
HIGHWAY 19, CENTER, MISSOURI 63436

ISSUED FOR BIDDING

NOT FOR CONSTRUCTION

ISSUE DATE: **5/8/20**

REVISIONS

NO.	Date	Description

PROJECT NUMBER: **5910**

STRUCTURAL NOTES

DWG. NO.
S001

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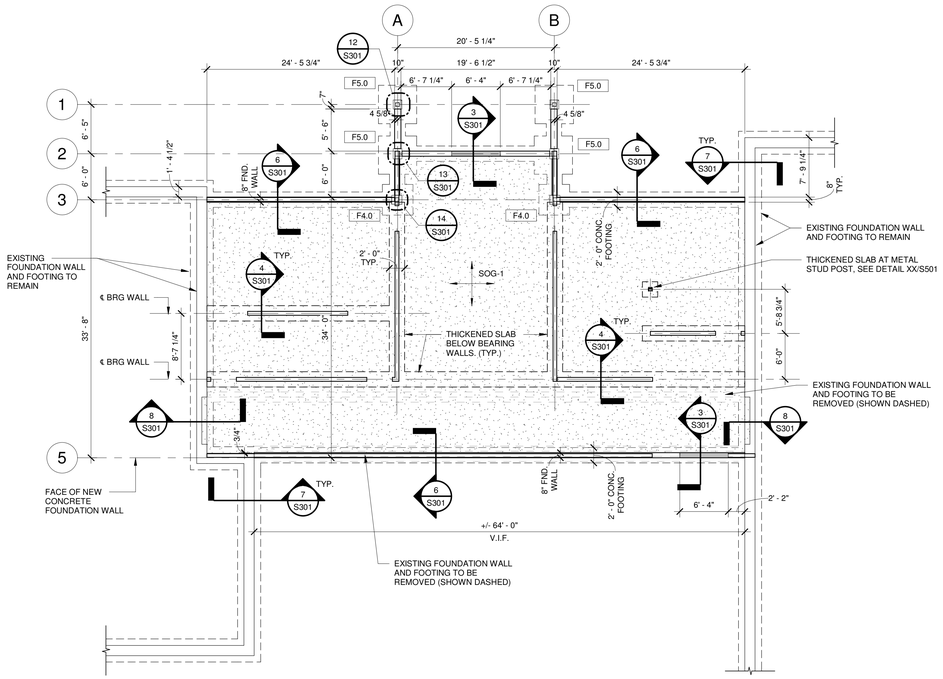

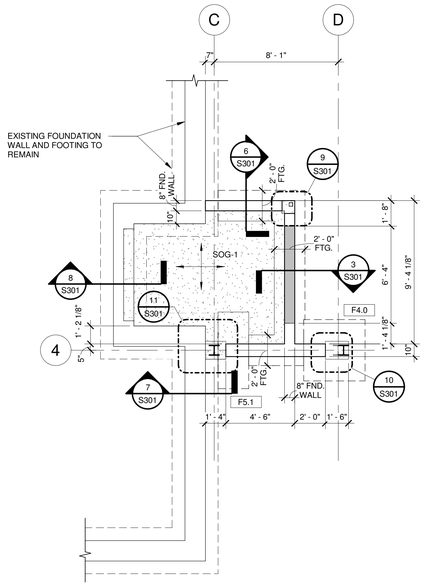

1 FOUNDATION PLAN - MAIN ENTRANCE

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

0 4' 8' 16'

2 FOUNDATION PLAN - EAST ENTRANCE

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

0 4' 8' 16'

GENERAL NOTES:

1. T.O. CONCRETE SLAB @ MAIN LEVEL EL: = 100'-0" (U.N.O.)
2. B.O. FOOTING EL: = 96'-0" (U.N.O.)
3. SOG-1 - INDICATES 5" SLAB ON GRADE CONSTRUCTION REINFORCED WITH 6x6 - W2.9xW2.9 W.W.F. ATOP 6" COMPACTED GRANULAR FILL (OA-6), SEE DETAILS 1/S301 AND 2/S301 FOR TYPICAL SLAB ON GRADE CONSTRUCTION, AND CONTROL JOINT DETAILS.
4. F.X.X - INDICATES REINFORCED CONCRETE SPREAD FOOTING, SEE SCHEDULE ON DRAWING S301

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FOUNDATION PLANS

DWG. NO.
S101

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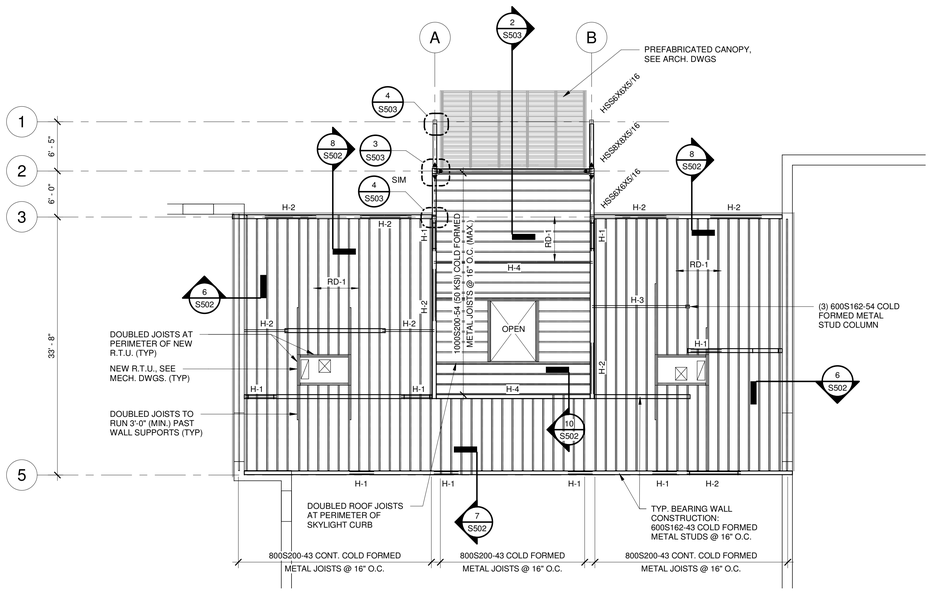


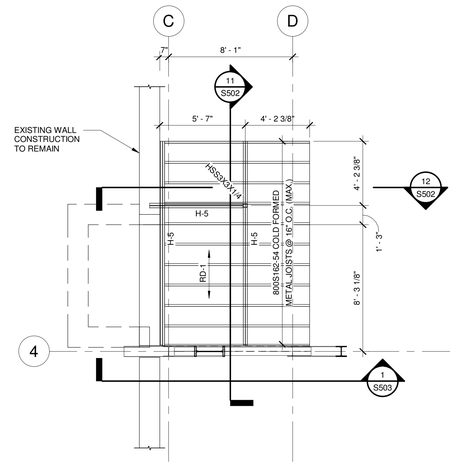
1 ROOF FRAMING PLAN - MAIN ENTRANCE

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

0 4' 8' 16'

GENERAL NOTES:

1. T.O. STEEL JOISTS @ LOW ROOF EL: = 112'-0" (U.N.O.)
2. T.O. STEEL JOISTS @ HIGH ROOF EL: = 116'-0" (U.N.O.)
3. RD-1 - INDICATES 3/4" PLYWOOD ROOF DECK, SPAN AS INDICATED.
4. COLD FORMED STEEL JOISTS SHALL RUN CONTINUOUS ATOP SUPPORTS, PROVIDE WEB STIFFENERS AT ALL BEARING LOCATIONS (TYP)
5. H-X INDICATES COLD FORMED STEEL JOIST BOX HEADER, SEE SCHEDULE AND DETAILS ON DRAWING S502



2 ROOF FRAMING PLAN - EAST ENTRANCE

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

0 2' 4' 8'

GENERAL NOTES:

1. T.O. STEEL JOISTS @ LOW ROOF EL: = 112'-0" (U.N.O.)
2. T.O. STEEL JOISTS @ HIGH ROOF EL: = 116'-0" (U.N.O.)
3. RD-1 - INDICATES 3/4" PLYWOOD ROOF DECK, SPAN AS INDICATED.
4. COLD FORMED STEEL JOISTS SHALL RUN CONTINUOUS ATOP SUPPORTS, PROVIDE WEB STIFFENERS AT ALL BEARING LOCATIONS (TYP)
5. H-X INDICATES COLD FORMED STEEL JOIST BOX HEADER, SEE SCHEDULE AND DETAILS ON DRAWING S502

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RALLS COUNTY R-II SCHOOL DISTRICT

NEW HIGH SCHOOL ADDITIONS

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ISSUED FOR BIDDING

NOT FOR CONSTRUCTION

ISSUE DATE: **5/8/20**

REVISIONS

NO.	Date	Description

PROJECT NUMBER: **5910**

ROOF FRAMING PLANS

DWG. NO.

S102

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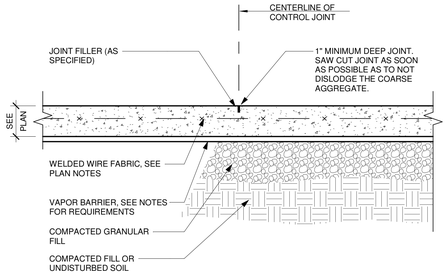
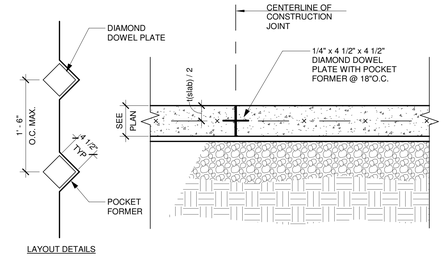


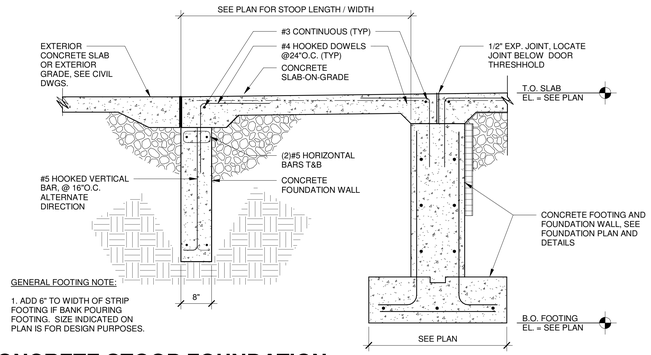
1 TYPICAL SLAB-ON-GRADE DETAIL

SCALE: 1" = 1'-0"



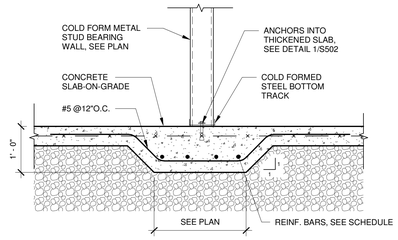
2 TYPICAL SLAB-ON-GRADE DETAIL

SCALE: 1" = 1'-0"



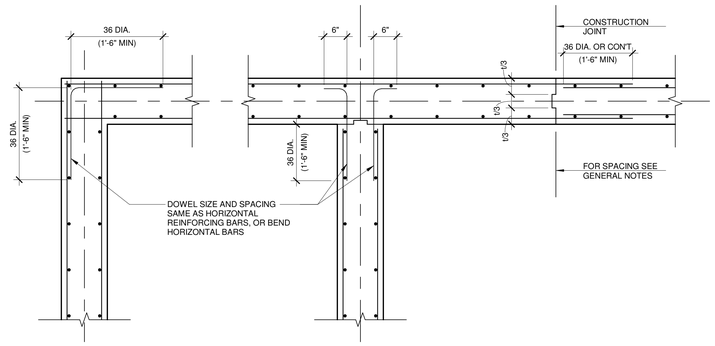
3 CONCRETE STOOP FOUNDATION

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



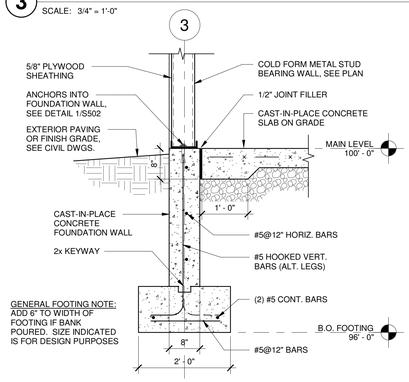
4 INTERIOR THICKENED SLAB DETAIL

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



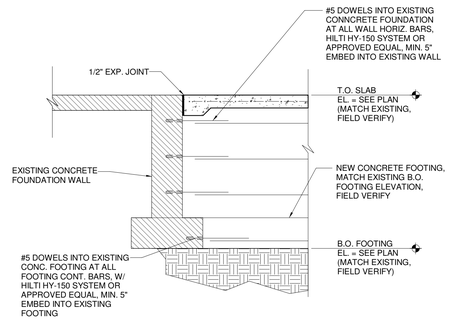
5 TYP. CONC. WALL CORNER, INTERSECTION AND CONSTRUCTION JOINT DETAILS

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



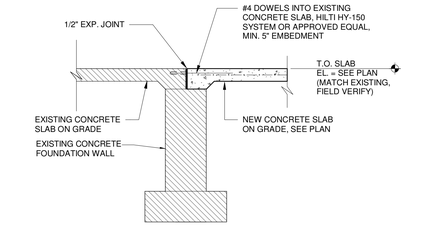
6 FOUNDATION WALL DETAIL

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



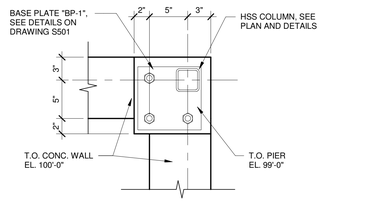
7 FOUNDATION WALL DETAIL

SCALE: 1/2" = 1'-0"



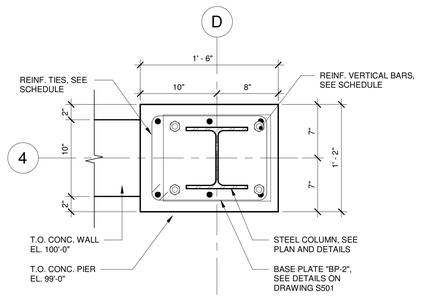
8 FOUNDATION WALL DETAIL

SCALE: 1/2" = 1'-0"



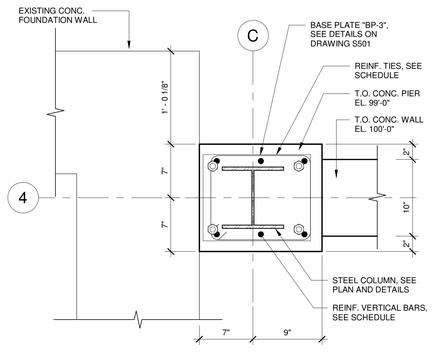
9 PIER P1 DETAIL

SCALE: 1 1/2" = 1'-0"



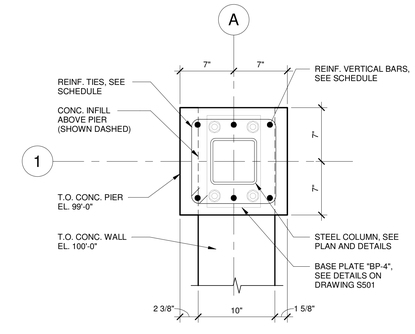
10 PIER P2 DETAIL

SCALE: 1 1/2" = 1'-0"



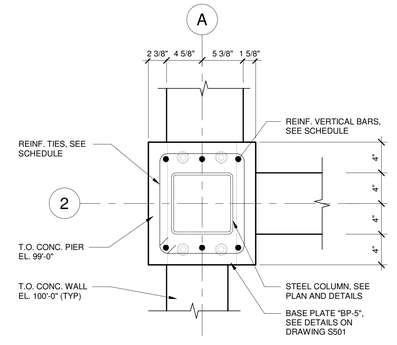
11 PIER P3 DETAIL

SCALE: 1 1/2" = 1'-0"



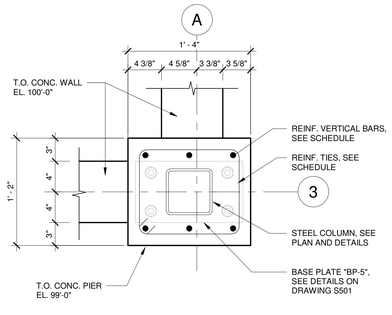
12 PIER P4 DETAIL

SCALE: 1 1/2" = 1'-0"



13 PIER P5 DETAIL

SCALE: 1 1/2" = 1'-0"



14 PIER P6 DETAIL

SCALE: 1 1/2" = 1'-0"

PIER SCHEDULE

PIER MARK	WIDTH	LENGTH	VERTICAL REINF. BARS, EXTEND INTO FOOTING	HORIZ. TIES	REMARKS
P1.0	8"	8"	WALL BARS CONTINUOUS BENEATH COLUMN	----	SEE DETAIL 9/S301
P2.0	1'-6"	1'-2"	(6) #6	#4 @ 10" (3) #4 @ 3" AT TOP	SEE DETAIL 10/S301
P3.0	1'-4"	1'-2"	(6) #6	#4 @ 10" (3) #4 @ 3" AT TOP	SEE DETAIL 11/S301
P4.0	1'-2"	1'-2"	(6) #5	#4 @ 10" (3) #4 @ 3" AT TOP	SEE DETAIL 12/S301
P5.0	1'-2"	1'-4"	(6) #6	#4 @ 10" (3) #4 @ 3" AT TOP	SEE DETAIL 13/S301
P6.0	1'-4"	1'-2"	(6) #6	#4 @ 10" (3) #4 @ 3" AT TOP	SEE DETAIL 14/S301

15 PIER SCHEDULE

SCALE: 1" = 1'-0"

FOOTING SCHEDULE

$f_{bearing}$ = 1,500 psf

FOOTING MARK	WIDTH - W (FT)	LENGTH - L (FT)	THICKNESS (FT)	BOTTOM REINFORCING	TOP REINFORCING	
F3.0	3'-0"	3'-0"	1'-0"	(4) #5 EACH WAY	----	B.O. FOOTING EL. 96'-0"
F4.0	4'-0"	4'-0"	1'-0"	(5) #5 EACH WAY	----	B.O. FOOTING EL. 96'-0"
F5.0	5'-0"	5'-0"	1'-0"	(6) #5 EACH WAY	----	B.O. FOOTING EL. 96'-0"
F5.1	2'-0"	5'-0"	1'-0"	(3) #5 (N-S) (6) #5 (E-W)	----	B.O. FOOTING EL. 96'-0" DOWEL E-W BARS INTO EXISTING FOOTING

GENERAL FOOTING NOTES:

1. ADD 6" TO WIDTH AND LENGTH OF FOOTING IF BANK POURING FOOTING. SIZE INDICATED ABOVE IS FOR DESIGN PURPOSES.
2. BOTTOM OF FOOTING ELEVATIONS NOTED ABOVE ARE UNLESS OTHERWISE NOTED ON FOUNDATION PLANS OR DETAILS.

16 FOOTING SCHEDULE

SCALE: 1" = 1'-0"

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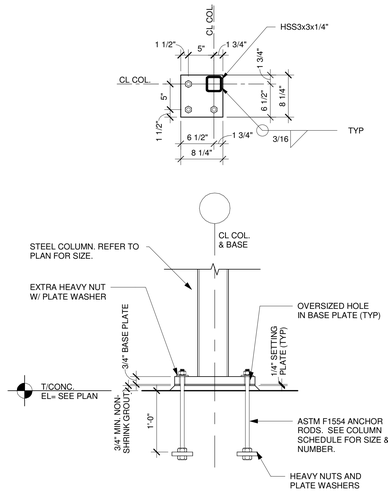
FOUNDATION DETAILS

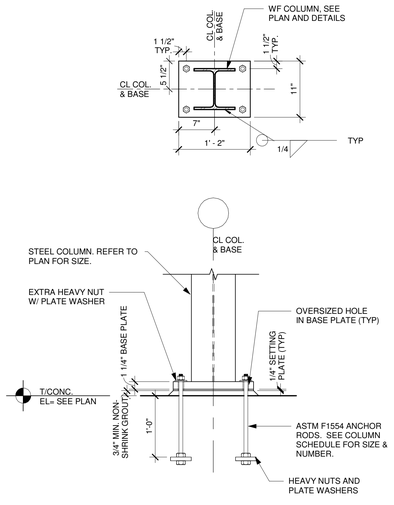
DWG. NO.

S301



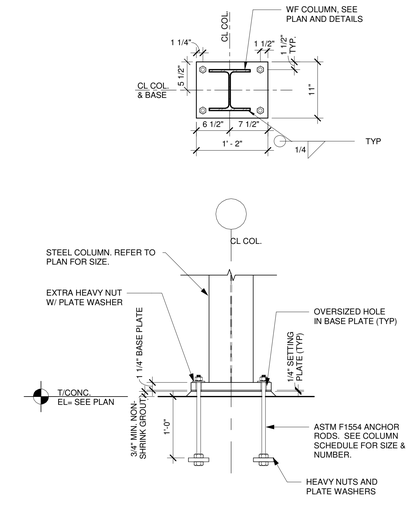
1 COLUMN BASE PLATE DETAIL - BP-1

SCALE: 1" = 1'-0"



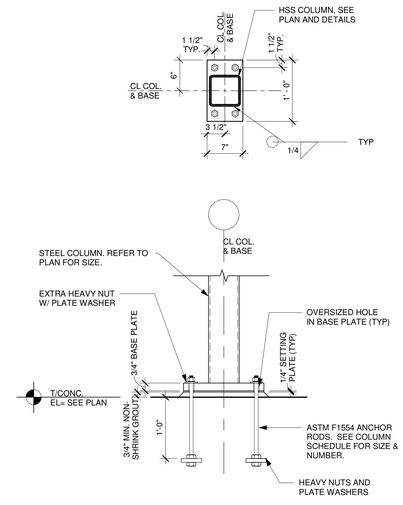
2 COLUMN BASE PLATE DETAIL - BP-2

SCALE: 1" = 1'-0"



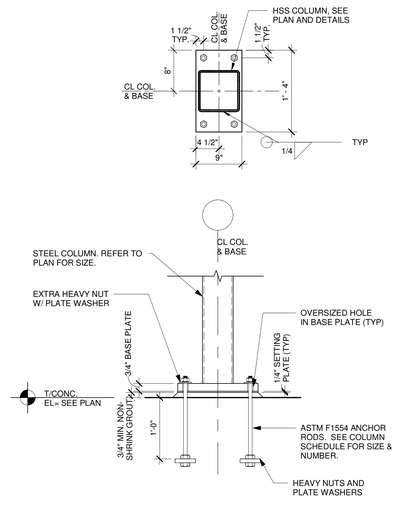
3 COLUMN BASE PLATE DETAIL - BP-3

SCALE: 1" = 1'-0"



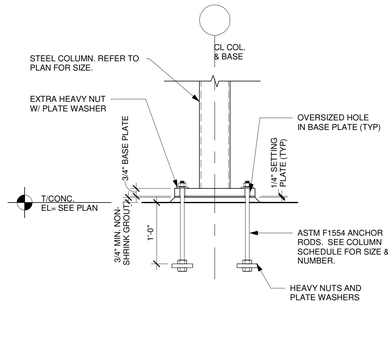
4 COLUMN BASE PLATE DETAIL - BP-4

SCALE: 1" = 1'-0"



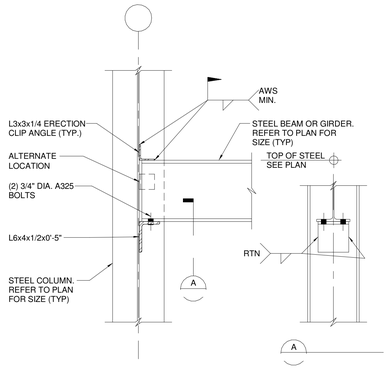
5 COLUMN BASE PLATE DETAIL - BP-5

SCALE: 1" = 1'-0"



6 COLUMN BASE PLATE DETAIL - BP-6

SCALE: 1" = 1'-0"



7 BEAM CONNECTION DETAIL

SCALE: 1" = 1'-0"

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FRAMING DETAILS

DWG. NO.

S501

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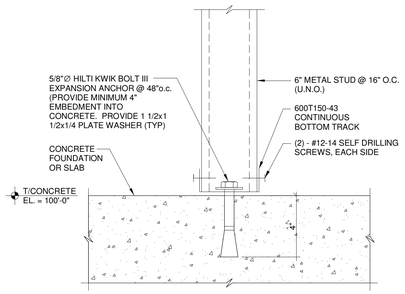
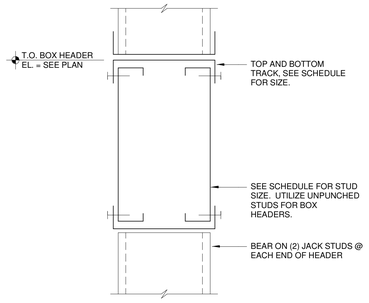


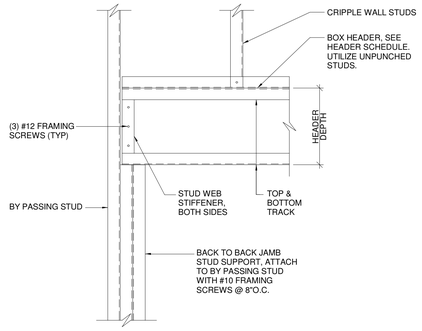
1 COLD FORMED METAL STUD WALL BASE DETAIL

SCALE: 3" = 1'-0"



2 BOX HEADER DETAIL

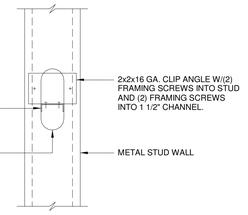
SCALE: 3" = 1'-0"



3 BOX HEADER DETAIL

SCALE: 1 1/2" = 1'-0"

NOTES:
1. PROVIDE LATERAL BRACING @ 48" O.C. MAX VERTICAL SPACING.



4 LATERAL BRACING DETAIL

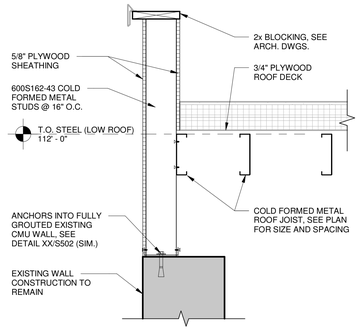
SCALE: 3" = 1'-0"

STEEL STUD BOX HEADER SCHEDULE

HEADER	BOX HEADER	REMARKS
H-1	PR. 600S162-43 AND 600T162-43's TO BEAR ATOP DOUBLE STUDS, WEB STIFFENERS AT SUPPORTS	
H-2	PR. 600S200-54 AND 600T162-43's TO BEAR ATOP DOUBLE STUDS, WEB STIFFENERS AT SUPPORTS	
H-3	PR. 1200S200-54 (50 KSI) AND 600T162-43's TO BEAR ATOP DOUBLE STUDS, WEB STIFFENERS AT SUPPORTS	
H-4	(3) 1200S200-54 (50 KSI) AND 600T162-43's TO BEAR ATOP DOUBLE STUDS, WEB STIFFENERS AT SUPPORTS	
H-5	PR. 800S162-54 AND 362T162-33's TO BEAR ATOP DOUBLE STUDS, WEB STIFFENERS AT SUPPORTS	

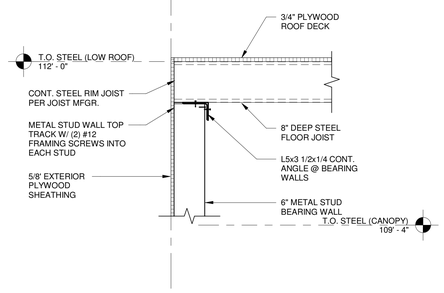
5 BOX HEADER SCHEDULE

SCALE: 1" = 1'-0"



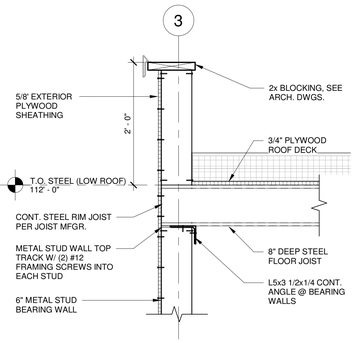
6 ROOF FRAMING DETAIL

SCALE: 1" = 1'-0"



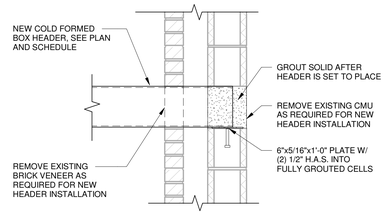
7 ROOF FRAMING DETAIL

SCALE: 1" = 1'-0"



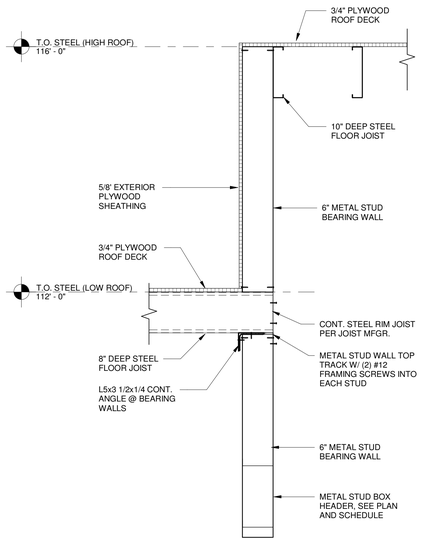
8 ROOF FRAMING DETAIL

SCALE: 1" = 1'-0"



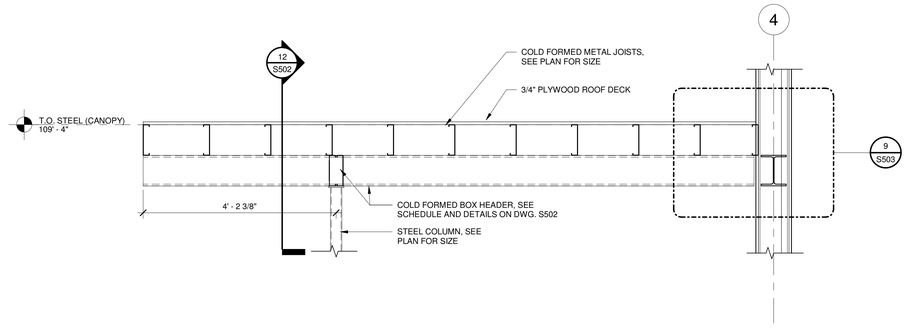
9 BOX HEADER DETAIL

SCALE: 1" = 1'-0"



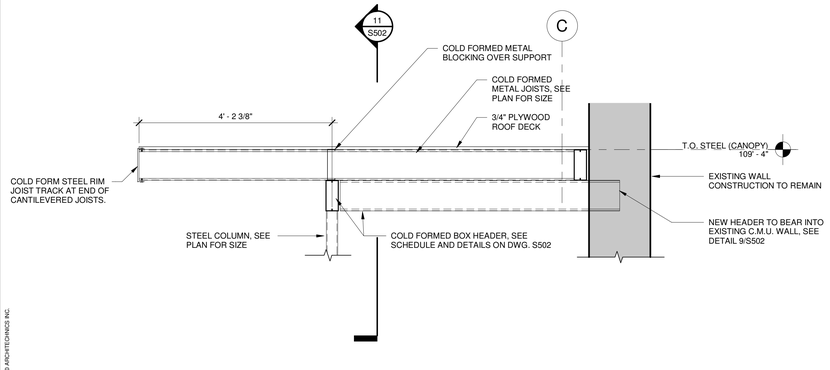
10 ROOF FRAMING DETAIL

SCALE: 1" = 1'-0"



11 CANOPY FRAMING DETAIL

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



12 CANOPY FRAMING DETAIL

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

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FRAMING DETAILS

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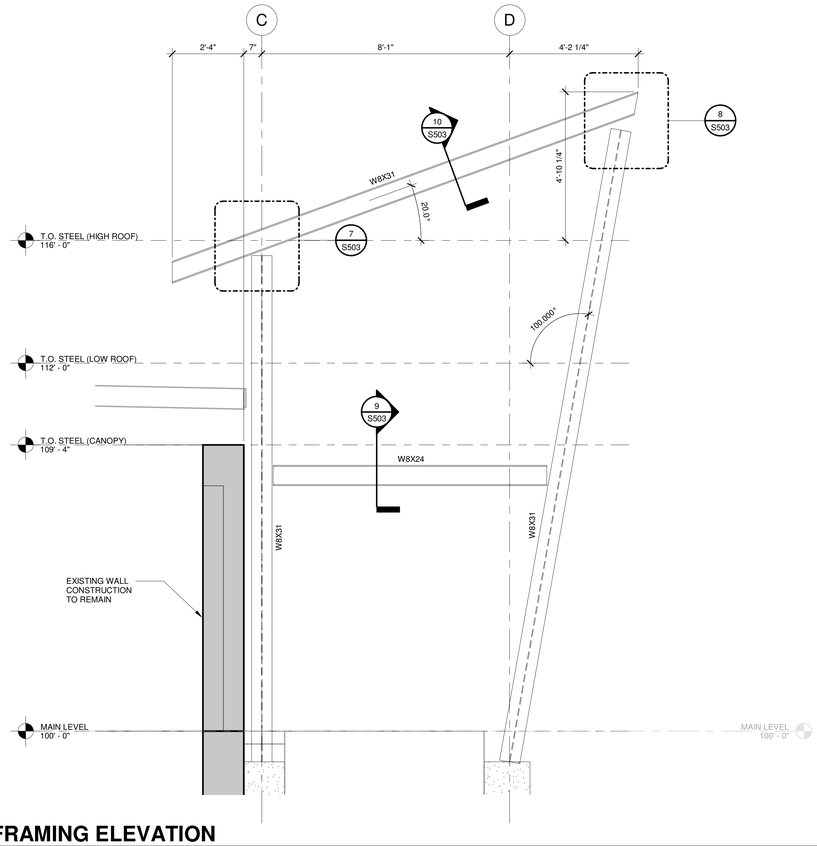
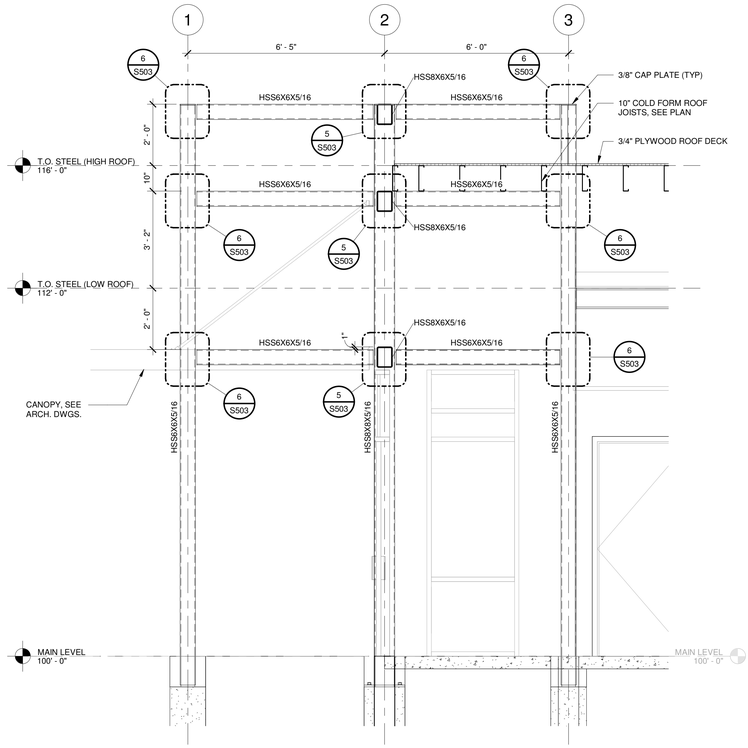


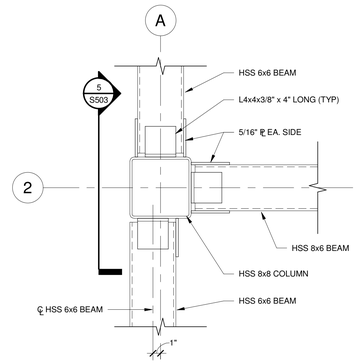
1 FRAMING ELEVATION

SCALE: 1/2" = 1'-0"



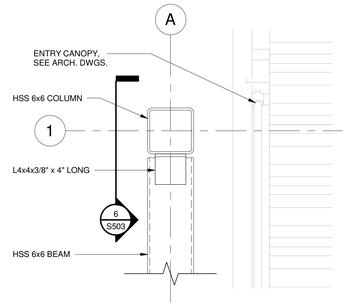
2 FRAMING ELEVATION

SCALE: 1/2" = 1'-0"



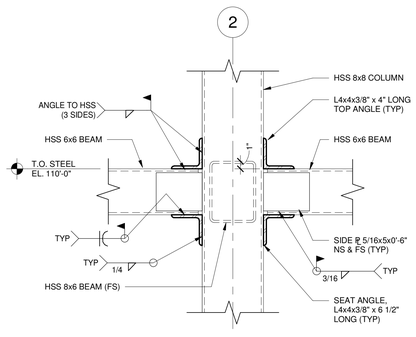
3 ROOF FRAMING DETAIL

SCALE: 1 1/2" = 1'-0"



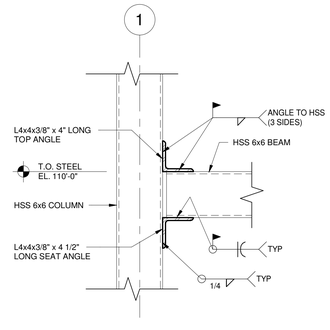
4 ROOF FRAMING DETAIL

SCALE: 1 1/2" = 1'-0"



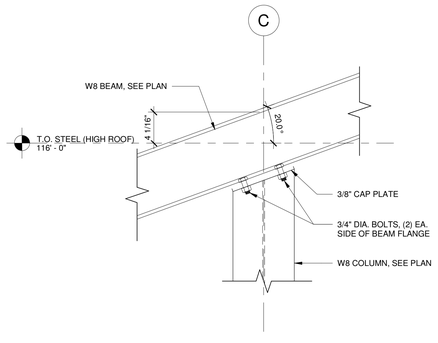
5 CANOPY FRAMING DETAIL

SCALE: 1 1/2" = 1'-0"



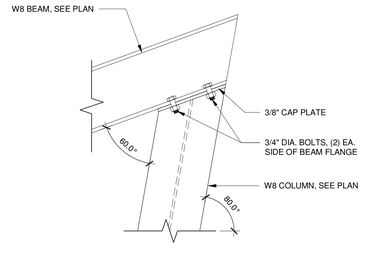
6 CANOPY FRAMING DETAIL

SCALE: 1 1/2" = 1'-0"



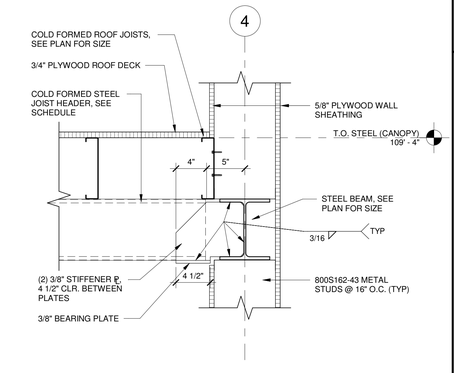
7 FRAMING DETAIL

SCALE: 1 1/2" = 1'-0"



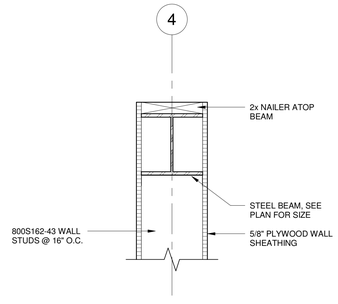
8 FRAMING DETAIL

SCALE: 1 1/2" = 1'-0"



9 FRAMING DETAIL

SCALE: 1 1/2" = 1'-0"



10 FRAMING DETAIL

SCALE: 1 1/2" = 1'-0"

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RALLS COUNTY R-II SCHOOL DISTRICT

NEW HIGH SCHOOL ADDITIONS

HIGHWAY 19, CENTER, MISSOURI 63436

ISSUED FOR BIDDING

NOT FOR CONSTRUCTION

ISSUE DATE: **5/8/20**

REVISIONS

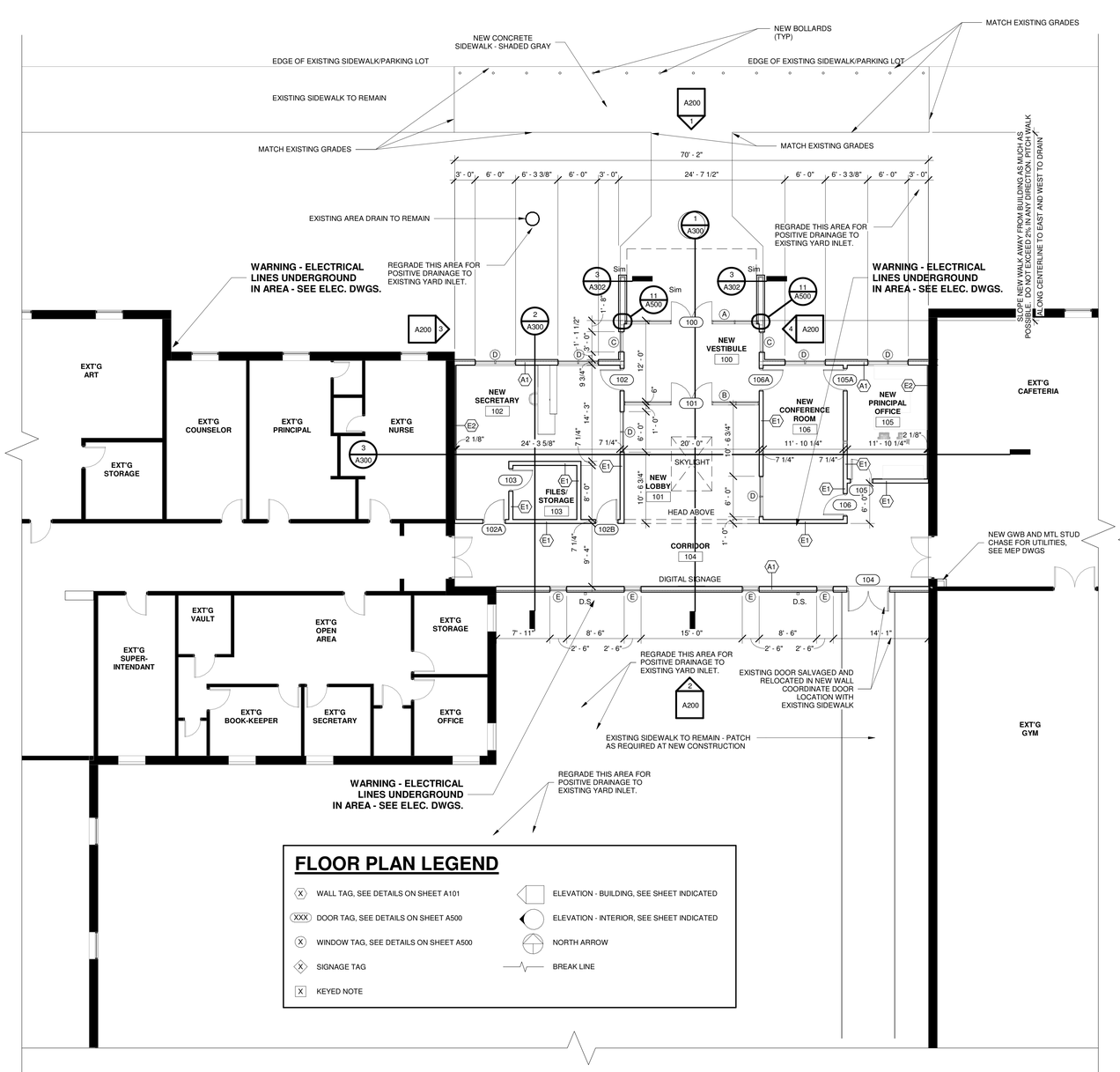
NO.	Date	Description

PROJECT NUMBER: **5910**

FRAMING DETAILS

DWG. NO.

S503

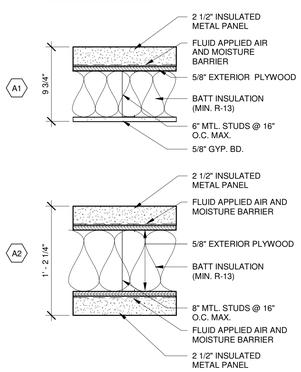


FLOOR PLAN LEGEND

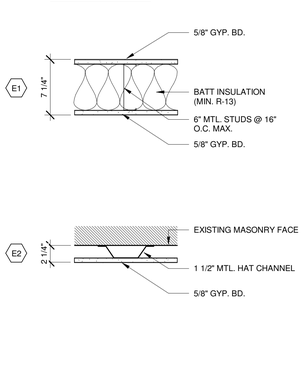
- (X) WALL TAG, SEE DETAILS ON SHEET A101
- (XXX) DOOR TAG, SEE DETAILS ON SHEET A500
- (X) WINDOW TAG, SEE DETAILS ON SHEET A500
- (X) SIGNAGE TAG
- [X] KEYED NOTE
- ELEVATION - BUILDING, SEE SHEET INDICATED
- ELEVATION - INTERIOR, SEE SHEET INDICATED
- NORTH ARROW
- BREAK LINE

PARTITION TYPE LEGEND

EXTERIOR WALLS TYPES



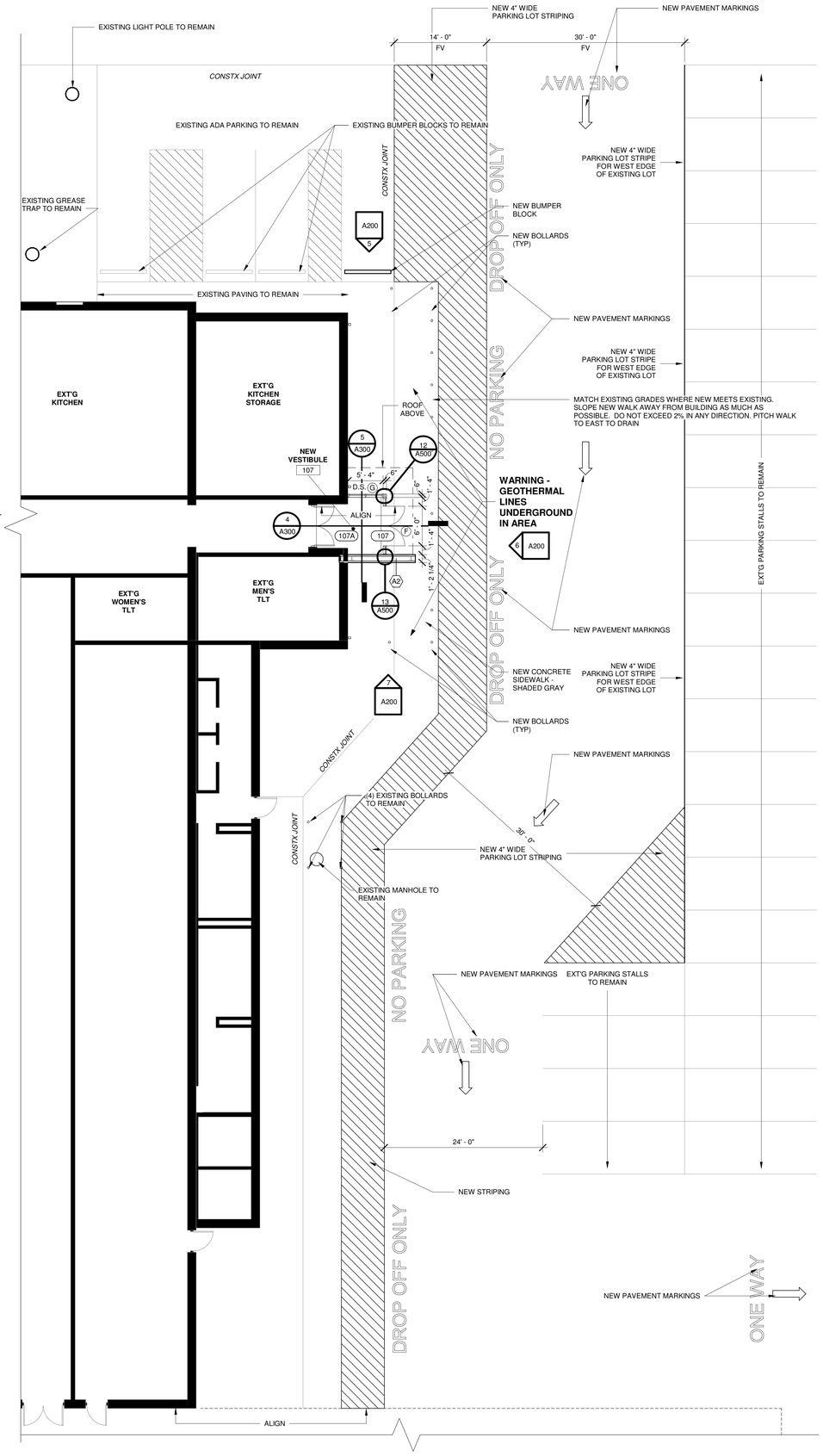
INTERIOR WALLS TYPES



1 ENLARGED PARTIAL FLOOR PLAN

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

0 4" 8" 16"



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PROJECT NUMBER: 5910C

ENLARGED PARTIAL FLOOR PLAN

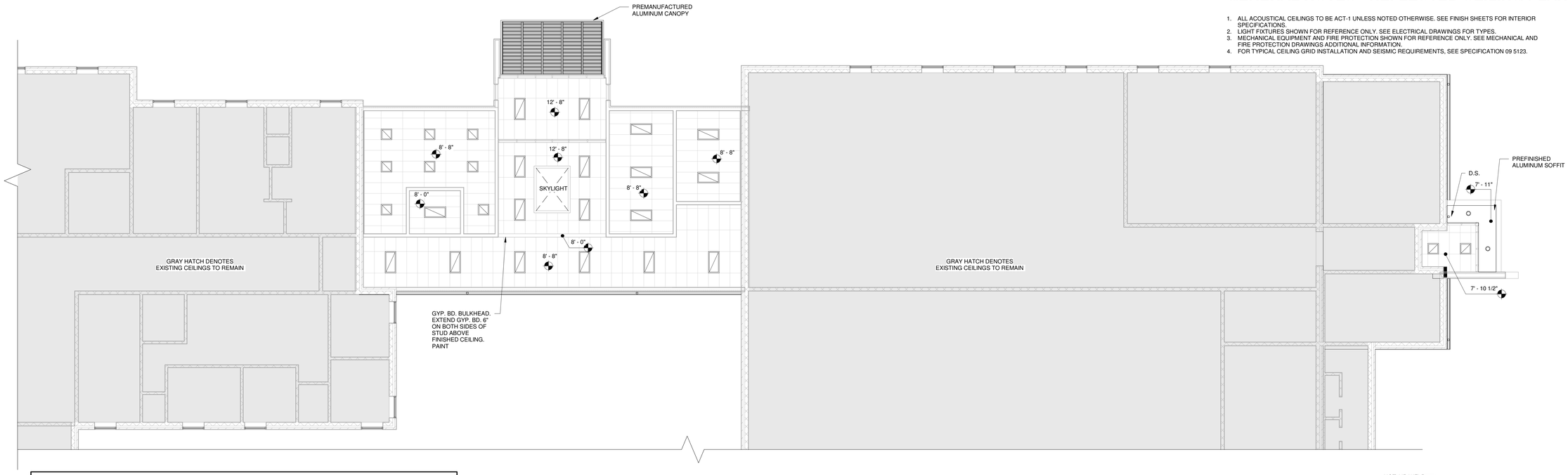
DWG. NO.

A101

5/12/2020 10:49:20 AM © ARCHITECHNICS INC.

GENERAL NOTES - REFLECTED CEILING PLAN

1. ALL ACOUSTICAL CEILINGS TO BE ACT-1 UNLESS NOTED OTHERWISE. SEE FINISH SHEETS FOR INTERIOR SPECIFICATIONS.
2. LIGHT FIXTURES SHOWN FOR REFERENCE ONLY. SEE ELECTRICAL DRAWINGS FOR TYPES.
3. MECHANICAL EQUIPMENT AND FIRE PROTECTION SHOWN FOR REFERENCE ONLY. SEE MECHANICAL AND FIRE PROTECTION DRAWINGS ADDITIONAL INFORMATION.
4. FOR TYPICAL CEILING GRID INSTALLATION AND SEISMIC REQUIREMENTS, SEE SPECIFICATION 09 5123.



REFLECTED CEILING PLAN LEGEND

(REFER TO ELECTRICAL PLANS FOR ADDITIONAL SYMBOLS)

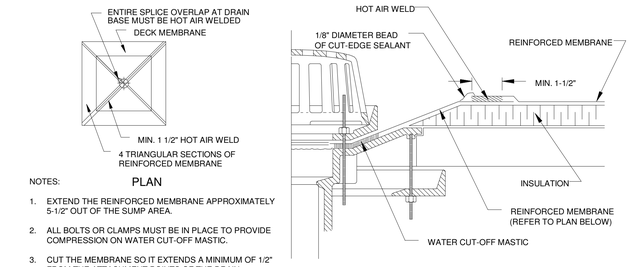
- ACOUSTIC CEILING REFER TO FINISH SPECIFICATIONS
- 2X4 LED LAY-IN FIXTURE
- HVAC GRILLES - SEE MECHANICAL DRAWINGS
- CEILING MOUNTED HVAC UNIT
- (S) SMOKE DETECTOR
- (H) HEAT DETECTOR
- (SP) SPEAKER
- (OS) OCCUPANCY SENSOR
- SPRINKLER HEAD, SEE FIRE PROTECTION DWGS

1 MAIN LEVEL RCP

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

0 4' 8' 16'

REFER TO ELECTRICAL DWGS FOR ADDITIONAL CEILING MOUNTED ITEMS

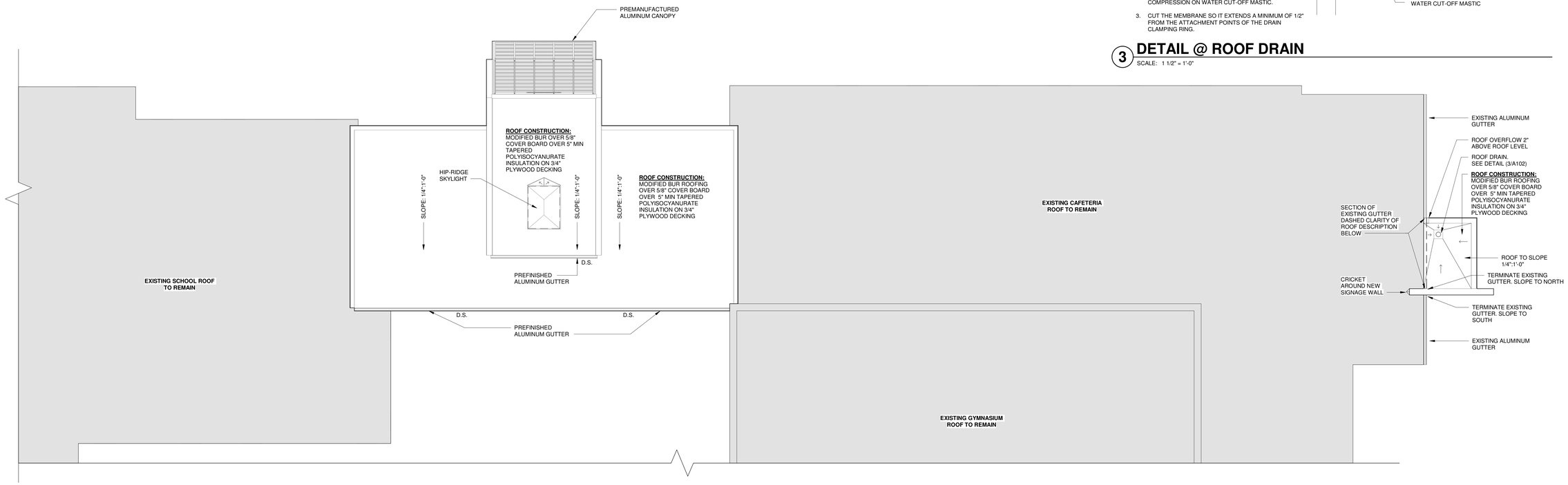


NOTES:

1. EXTEND THE REINFORCED MEMBRANE APPROXIMATELY 5-1/2" OUT OF THE SUMP AREA.
2. ALL BOLTS OR CLAMPS MUST BE IN PLACE TO PROVIDE COMPRESSION ON WATER CUT-OFF MASTIC.
3. CUT THE MEMBRANE SO IT EXTENDS A MINIMUM OF 1/2" FROM THE ATTACHMENT POINTS OF THE DRAIN CLAMPING RING.

3 DETAIL @ ROOF DRAIN

SCALE: 1 1/2" = 1'-0"



2 ROOF PLAN

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

0 4' 8' 16'

PAINT GAS PIPING ON ROOF, SEE MP 101

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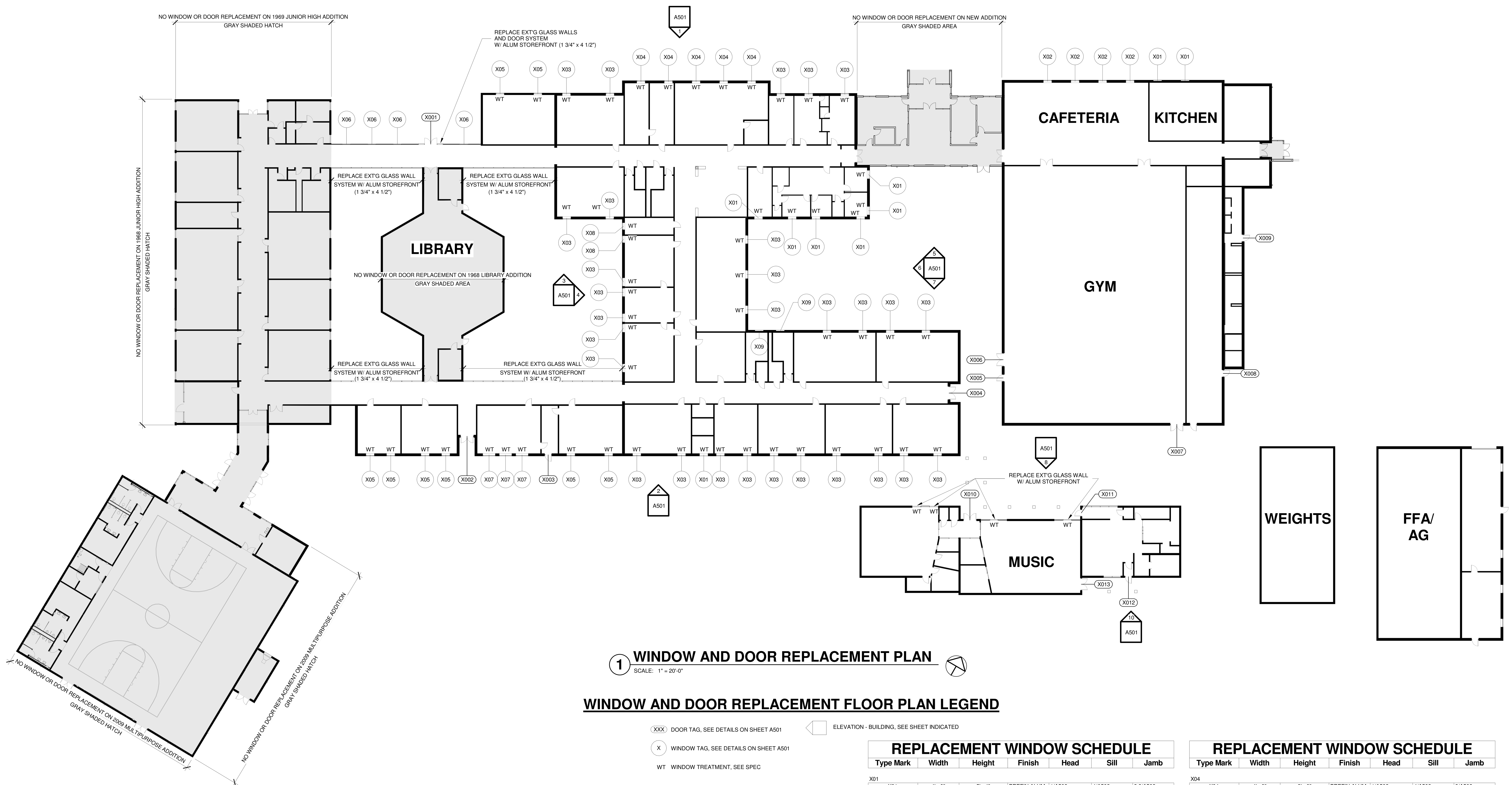
ROOF PLAN / REFLECTED CEILING PLAN

DWG. NO.
A102

5/12/2020 11:55:07 AM © ARCHITECHNICS INC.



1 WINDOW AND DOOR REPLACEMENT PLAN

SCALE: 1" = 20'-0"

WINDOW AND DOOR REPLACEMENT FLOOR PLAN LEGEND

- XXX — DOOR TAG, SEE DETAILS ON SHEET A501
- X — WINDOW TAG, SEE DETAILS ON SHEET A501
- WT — WINDOW TREATMENT, SEE SPEC
- ELEVATION - BUILDING, SEE SHEET INDICATED

DOOR SCHEDULE - REPLACEMENT

MARK	SIZE			DOOR		FRAME				HARDWARE	COMMENTS
	WIDTH	HEIGHT	THICKNESS	TYPE	FINISH	TYPE	FINISH	HEAD	JAMB		
X001	6' - 0"	7' - 0"	1 3/4"	1A/A500	PREFIN	2A/A500	PREFIN	9/A502 SIM	10, 11/A502 SIM	1	ACCESS CONTROL BY OWNER - SEE ALLOWANCES
X002	6' - 0"	7' - 0"	1 3/4"	1B/A500	PAINT	2C/A500	PAINT	13/A502 SIM	14/A502 SIM	1	ACCESS CONTROL BY OWNER - SEE ALLOWANCES
X003	3' - 0"	7' - 0"	1 3/4"	1B/A500	PAINT	2C/A500	PAINT	13/A502 SIM	14/A502 SIM	1A	ACCESS CONTROL BY OWNER - SEE ALLOWANCES
X004	6' - 0"	7' - 0"	1 3/4"	1B/A500	PAINT	2C/A500	PAINT	5/A502 SIM	2/A502 SIM	1	ACCESS CONTROL BY OWNER - SEE ALLOWANCES
X005	3' - 0"	7' - 0"	1 3/4"	1B/A500	PAINT	2C/A500	PAINT	5/A502 SIM	2/A502 SIM	1A	ACCESS CONTROL BY OWNER - SEE ALLOWANCES
X006	6' - 0"	7' - 0"	1 3/4"	1B/A500	PAINT	2C/A500	PAINT	5/A502 SIM	2/A502 SIM	1	ACCESS CONTROL BY OWNER - SEE ALLOWANCES
X007	6' - 0"	7' - 0"	1 3/4"	1B/A500	PAINT	2C/A500	PAINT	5/A502 SIM	2/A502 SIM	1	ACCESS CONTROL BY OWNER - SEE ALLOWANCES
X008	3' - 0"	7' - 0"	1 3/4"	1B/A500	PAINT	2C/A500	PAINT	5/A502 SIM	2/A502 SIM	1A	ACCESS CONTROL BY OWNER - SEE ALLOWANCES
X009	3' - 0"	7' - 0"	1 3/4"	1B/A500	PAINT	2C/A500	PAINT	13/A502 SIM	14/A502 SIM	1A	ACCESS CONTROL BY OWNER - SEE ALLOWANCES
X010	6' - 0"	7' - 0"	1 3/4"	1B/A500	PAINT	8/A501	PAINT	1, 5/A502 SIM	2/A502 SIM	1	ACCESS CONTROL BY OWNER - SEE ALLOWANCES
X011	3' - 0"	7' - 0"	1 3/4"	1B/A500	PAINT	2C/A500	PAINT	1, 5/A502 SIM	2/A502 SIM	1A	ACCESS CONTROL BY OWNER - SEE ALLOWANCES
X012	3' - 0"	7' - 0"	1 3/4"	1B/A500	PAINT	10/A501	PAINT	1, 5/A502 SIM	2/A502 SIM	1A	ACCESS CONTROL BY OWNER - SEE ALLOWANCES
X013	5' - 6"	7' - 0"	1 3/4"	1B/A500	PAINT	2C/A500	PAINT	1, 5/A502 SIM	2/A502 SIM	1	ACCESS CONTROL BY OWNER - SEE ALLOWANCES

NOTE: HARDWARE SET 1A IS THE SAME AS HARDWARE SET 1, MODIFIED FOR SINGLE LEAF OPENING.

REPLACEMENT WINDOW SCHEDULE

Type Mark	Width	Height	Finish	Head	Sill	Jamb
X01						
X01	4' - 0"	5' - 4"	PREFIN ALUM	1/A502	4/A502	2,3/A502
X01	4' - 0"	5' - 4"	PREFIN ALUM	1/A502	4/A502	2,3/A502
X01	4' - 0"	5' - 4"	PREFIN ALUM	1/A502	4/A502	2,3/A502
X01	4' - 0"	5' - 4"	PREFIN ALUM	1/A502	4/A502	2,3/A502
X01	4' - 0"	5' - 4"	PREFIN ALUM	1/A502	4/A502	2,3/A502
X01	4' - 0"	5' - 4"	PREFIN ALUM	1/A502	4/A502	2,3/A502
X01	4' - 0"	5' - 4"	PREFIN ALUM	1/A502	4/A502	2,3/A502
X01	4' - 0"	5' - 4"	PREFIN ALUM	1/A502	4/A502	2,3/A502
X01	4' - 0"	5' - 4"	PREFIN ALUM	1/A502	4/A502	2,3/A502
X02						
X02	4' - 0"	6' - 8"	PREFIN ALUM	1/A502	4/A502	3,6/A502
X02	4' - 0"	6' - 8"	PREFIN ALUM	1/A502	4/A502	3,6/A502
X02	4' - 0"	6' - 8"	PREFIN ALUM	1/A502	4/A502	3,6/A502
X02	4' - 0"	6' - 8"	PREFIN ALUM	1/A502	4/A502	3,6/A502
X03						
X03	4' - 0"	6' - 6"	PREFIN ALUM	1/A502	4/A502	2,3/A502
X03	4' - 0"	6' - 6"	PREFIN ALUM	1/A502	4/A502	2,3/A502
X03	4' - 0"	6' - 6"	PREFIN ALUM	1/A502	4/A502	2,3/A502
X03	4' - 0"	6' - 6"	PREFIN ALUM	1/A502	4/A502	2,3/A502
X03	4' - 0"	6' - 6"	PREFIN ALUM	1/A502	4/A502	2,3/A502
X03	4' - 0"	6' - 6"	PREFIN ALUM	1/A502	4/A502	2,3/A502
X03	4' - 0"	6' - 6"	PREFIN ALUM	1/A502	4/A502	2,3/A502
X03	4' - 0"	6' - 6"	PREFIN ALUM	1/A502	4/A502	2,3/A502
X03	4' - 0"	6' - 6"	PREFIN ALUM	1/A502	4/A502	2,3/A502
X03	4' - 0"	6' - 6"	PREFIN ALUM	1/A502	4/A502	2,3/A502
X03	4' - 0"	6' - 6"	PREFIN ALUM	1/A502	4/A502	2,3/A502
X03	4' - 0"	6' - 6"	PREFIN ALUM	1/A502	4/A502	2,3/A502
X03	4' - 0"	6' - 6"	PREFIN ALUM	1/A502	4/A502	2,3/A502
X03	4' - 0"	6' - 6"	PREFIN ALUM	1/A502	4/A502	2,3/A502
X03	4' - 0"	6' - 6"	PREFIN ALUM	1/A502	4/A502	2,3/A502
X03	4' - 0"	6' - 6"	PREFIN ALUM	1/A502	4/A502	2,3/A502
X03	4' - 0"	6' - 6"	PREFIN ALUM	1/A502	4/A502	2,3/A502
X03	4' - 0"	6' - 6"	PREFIN ALUM	1/A502	4/A502	2,3/A502
X03	4' - 0"	6' - 6"	PREFIN ALUM	1/A502	4/A502	2,3/A502
X03	4' - 0"	6' - 6"	PREFIN ALUM	1/A502	4/A502	2,3/A502
X03	4' - 0"	6' - 6"	PREFIN ALUM	1/A502	4/A502	2,3/A502
X03	4' - 0"	6' - 6"	PREFIN ALUM	1/A502	4/A502	2,3/A502
X03	4' - 0"	6' - 6"	PREFIN ALUM	1/A502	4/A502	2,3/A502
X03	4' - 0"	6' - 6"	PREFIN ALUM	1/A502	4/A502	2,3/A502
X03	4' - 0"	6' - 6"	PREFIN ALUM	1/A502	4/A502	2,3/A502
X03	4' - 0"	6' - 6"	PREFIN ALUM	1/A502	4/A502	2,3/A502
X03	4' - 0"	6' - 6"	PREFIN ALUM	1/A502	4/A502	2,3/A502
X03	4' - 0"	6' - 6"	PREFIN ALUM	1/A502	4/A502	2,3/A502
X03	4' - 0"	6' - 6"	PREFIN ALUM	1/A502	4/A502	2,3/A502

REPLACEMENT WINDOW SCHEDULE

Type Mark	Width	Height	Finish	Head	Sill	Jamb
X04						
X04	4' - 0"	8' - 0"	PREFIN ALUM	1/A502	4/A502	3/A502
X04	4' - 0"	8' - 0"	PREFIN ALUM	1/A502	4/A502	3/A502
X04	4' - 0"	8' - 0"	PREFIN ALUM	1/A502	4/A502	3/A502
X04	4' - 0"	8' - 0"	PREFIN ALUM	1/A502	4/A502	3/A502
X04	4' - 0"	8' - 0"	PREFIN ALUM	1/A502	4/A502	3/A502
X05						
X05	4' - 0"	5' - 4"	PREFIN ALUM	13/A502	15/A502	14/A502
X05	4' - 0"	5' - 4"	PREFIN ALUM	13/A502	15/A502	14/A502
X05	4' - 0"	5' - 4"	PREFIN ALUM	13/A502	15/A502	14/A502
X05	4' - 0"	5' - 4"	PREFIN ALUM	13/A502	15/A502	14/A502
X05	4' - 0"	5' - 4"	PREFIN ALUM	13/A502	15/A502	14/A502
X05	4' - 0"	5' - 4"	PREFIN ALUM	13/A502	15/A502	14/A502
X05	4' - 0"	5' - 4"	PREFIN ALUM	13/A502	15/A502	14/A502
X05	4' - 0"	5' - 4"	PREFIN ALUM	13/A502	15/A502	14/A502
X05	4' - 0"	5' - 4"	PREFIN ALUM	13/A502	15/A502	14/A502
X05	4' - 0"	5' - 4"	PREFIN ALUM	13/A502	15/A502	14/A502
X05	4' - 0"	5' - 4"	PREFIN ALUM	13/A502	15/A502	14/A502
X05	4' - 0"	5' - 4"	PREFIN ALUM	13/A502	15/A502	14/A502
X06						
X06	4' - 0"	7' - 4"	PREFIN ALUM	9/A502	12/A502	10,11/A502
X06	4' - 0"	7' - 4"	PREFIN ALUM	9/A502	12/A502	10,11/A502
X06	4' - 0"	7' - 4"	PREFIN ALUM	9/A502	12/A502	10,11/A502
X06	4' - 0"	7' - 4"	PREFIN ALUM	9/A502	12/A502	10,11/A502
X07						
X07	6' - 0"	5' - 4"	PREFIN ALUM	13/A502	15/A502	14/A502
X07	6' - 0"	5' - 4"	PREFIN ALUM	13/A502	15/A502	14/A502
X07	6' - 0"	5' - 4"	PREFIN ALUM	13/A502	15/A502	14/A502
X08						
X08	3' - 4"	6' - 6"	PREFIN ALUM	1/A502	4/A502	2,3/A502
X08	3' - 4"	6' - 6"	PREFIN ALUM	1/A502	4/A502	2,3/A502
X09						
X09	4' - 0"	4' - 0"	PREFIN ALUM	5/A502	4/A502	2,3/A502
X09	4' - 0"	4' - 0"	PREFIN ALUM	5/A502	4/A502	2,3/A502

THE HEAD, JAMB AND SILL DETAILS IN THE SCHEDULE ABOVE ARE THE TYPICAL CONDITION. REFER TO THE ELEVATIONS ON SHEET (A501) FOR OTHER ASSOCIATED DETAILS.

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RALLS COUNTY R-II SCHOOL DISTRICT

NEW HIGH SCHOOL ADDITIONS

HIGHWAY 19, CENTER, MISSOURI 63436

ISSUED FOR BIDDING

NOT FOR CONSTRUCTION

ISSUE DATE: 5/8/20

REVISIONS

NO.	Date	Description

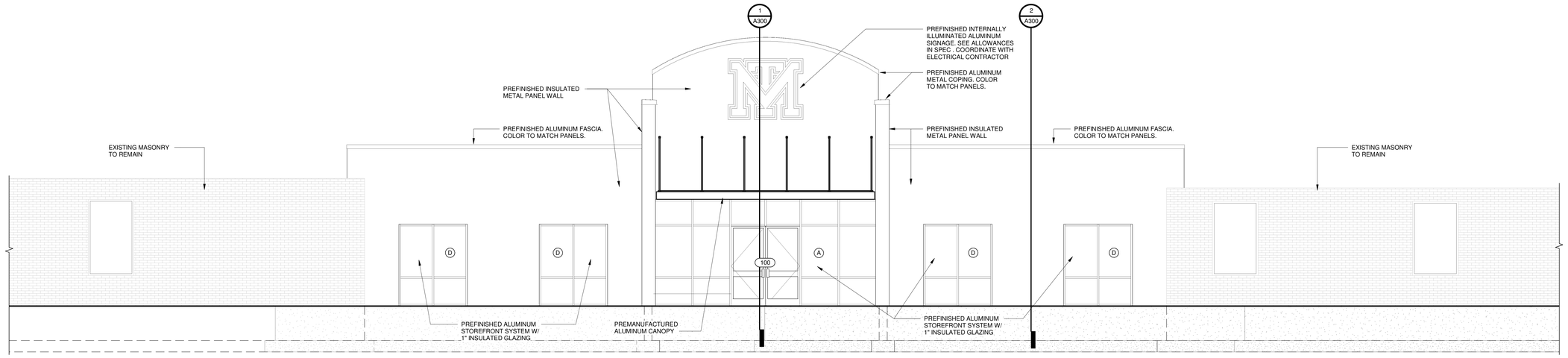
PROJECT NUMBER: 5910C

WINDOW AND DOOR REPLACEMENT PLAN

DWG. NO.

A103

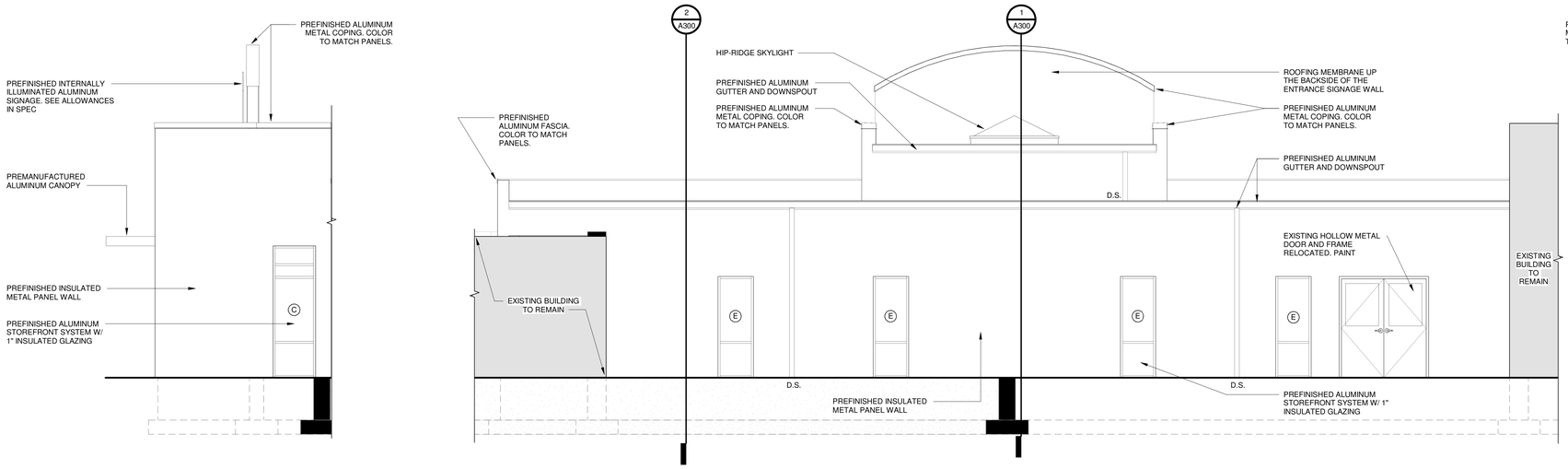
5/12/2020 10:49:25 AM © ARCHITECHNICS INC.



1 MAIN ENTRY NORTH ELEVATION

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

ALL GLAZING IN EXTERIOR DOORS AND EXTERIOR WINDOWS TO RECEIVE SECURITY FILM EQ. TO 3M ULTRA NIGHT VISION S25 OR EQUAL.



3 MAIN ENTRY WEST PARTIAL ELEVATION

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

ALL GLAZING IN EXTERIOR DOORS AND EXTERIOR WINDOWS TO RECEIVE SECURITY FILM EQ. TO 3M ULTRA NIGHT VISION S25 OR EQUAL.

2 MAIN ENTRY SOUTH ELEVATION

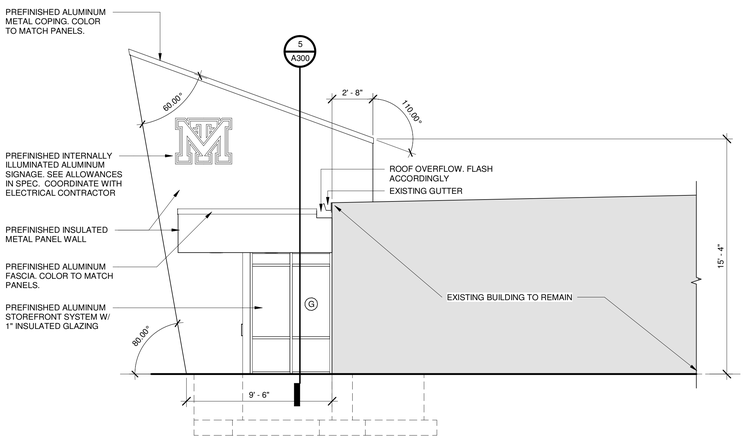
SCALE: 1/4" = 1'-0"

ALL GLAZING IN EXTERIOR DOORS AND EXTERIOR WINDOWS TO RECEIVE SECURITY FILM EQ. TO 3M ULTRA NIGHT VISION S25 OR EQUAL.

4 MAIN ENTRY EAST PARTIAL ELEVATION

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

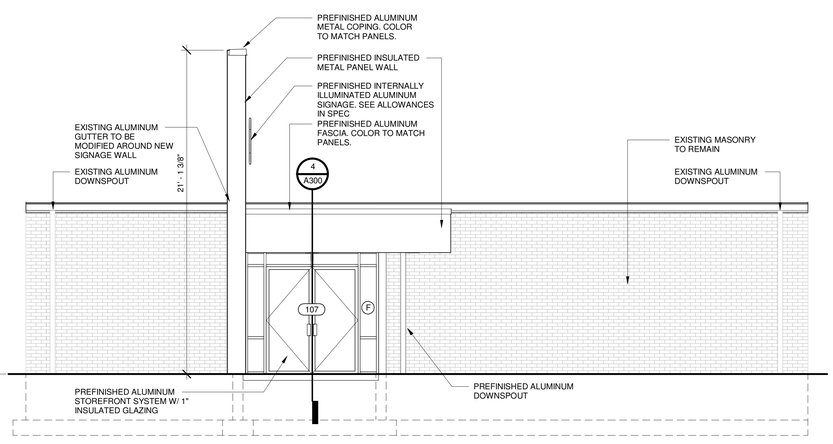
ALL GLAZING IN EXTERIOR DOORS AND EXTERIOR WINDOWS TO RECEIVE SECURITY FILM EQ. TO 3M ULTRA NIGHT VISION S25 OR EQUAL.



5 GYM ENTRY NORTH ELEVATION

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

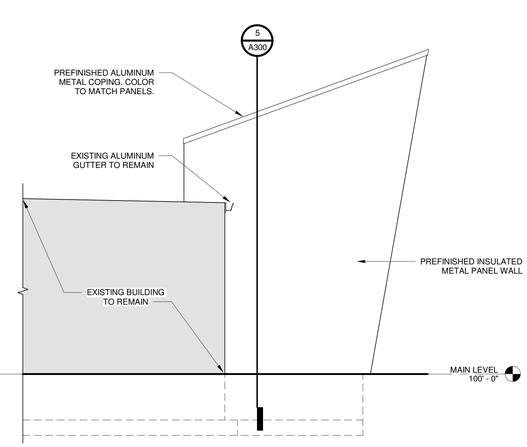
ALL GLAZING IN EXTERIOR DOORS AND EXTERIOR WINDOWS TO RECEIVE SECURITY FILM EQ. TO 3M ULTRA NIGHT VISION S25 OR EQUAL.



6 GYM ENTRY EAST ELEVATION

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

ALL GLAZING IN EXTERIOR DOORS AND EXTERIOR WINDOWS TO RECEIVE SECURITY FILM EQ. TO 3M ULTRA NIGHT VISION S25 OR EQUAL.



7 GYM ENTRY SOUTH ELEVATION

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

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EXTERIOR ELEVATIONS

DWG. NO.

A200

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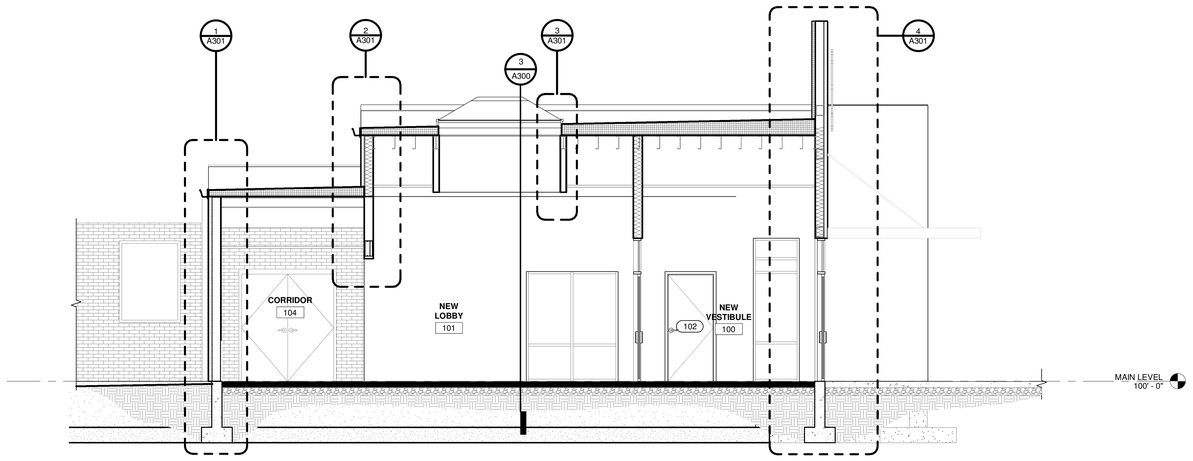
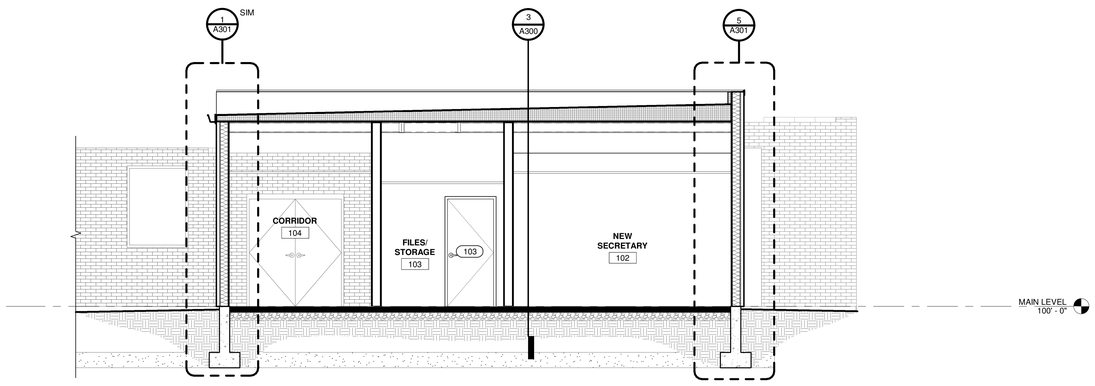


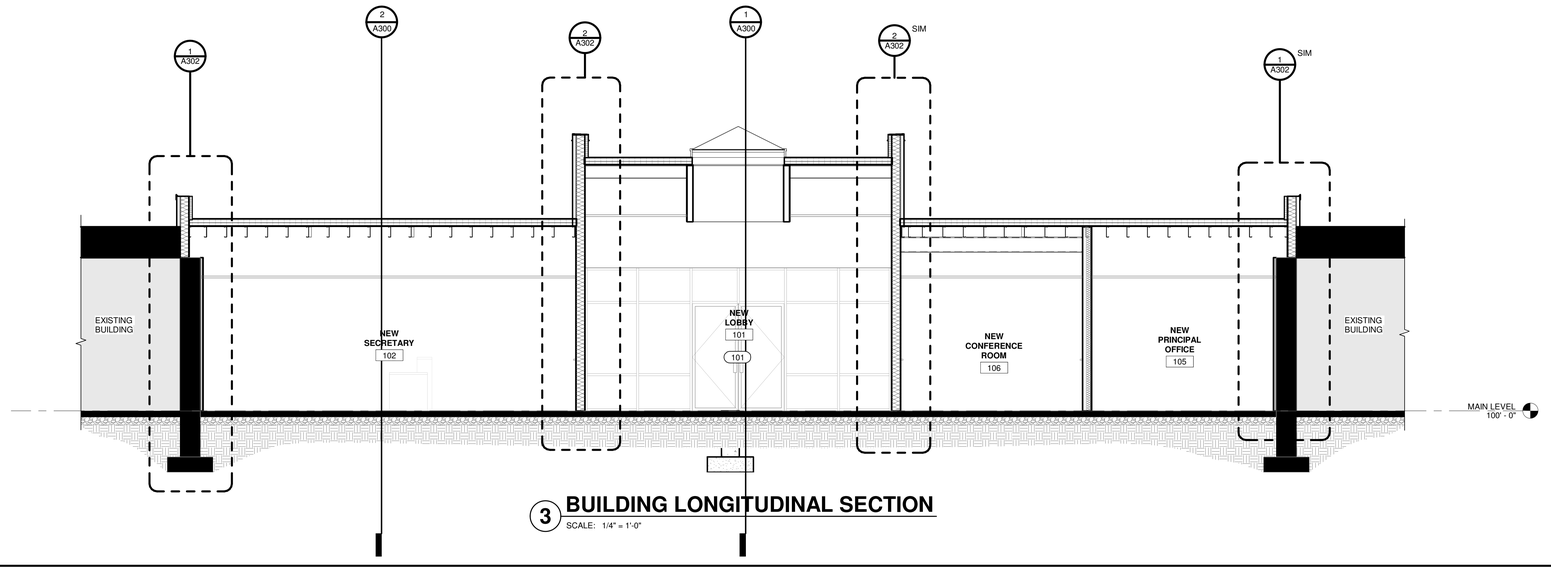
1 BUILDING CROSS SECTION

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



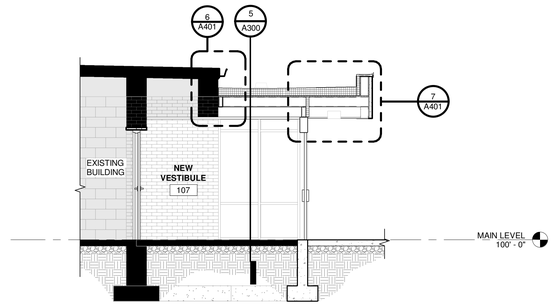
2 BUILDING CROSS SECTION

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



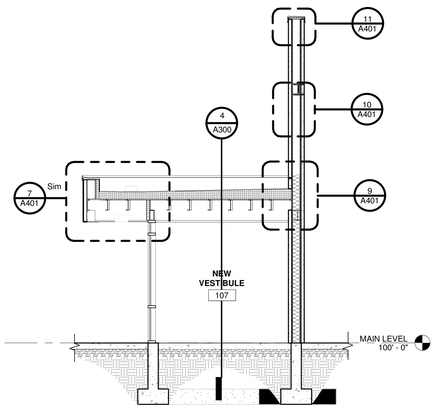
3 BUILDING LONGITUDINAL SECTION

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



4 GYM ENTRY CROSS SECTION

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



5 GYM ENTRY CROSS SECTION

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

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BUILDING SECTIONS

DWG. NO.
A300

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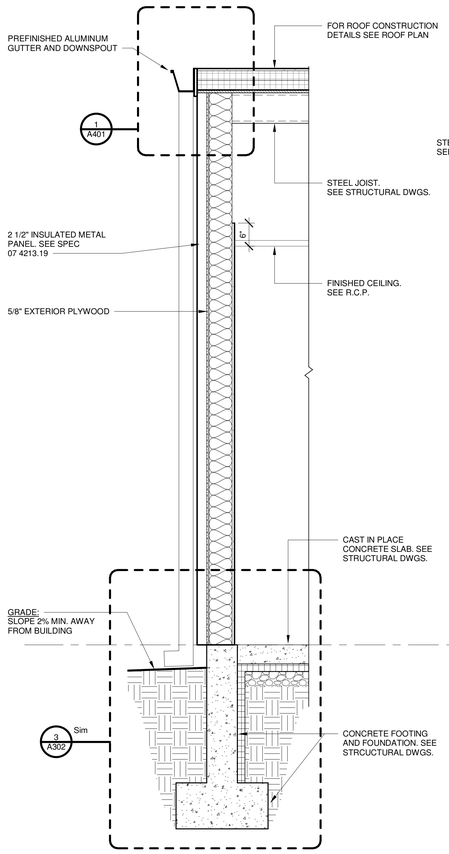
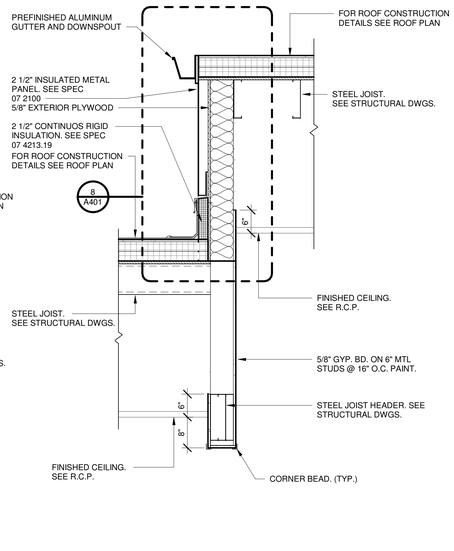
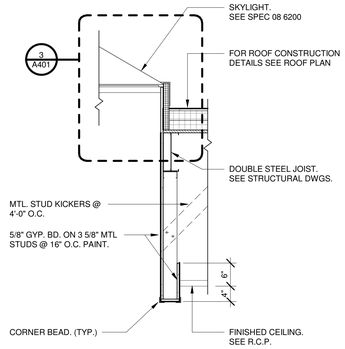


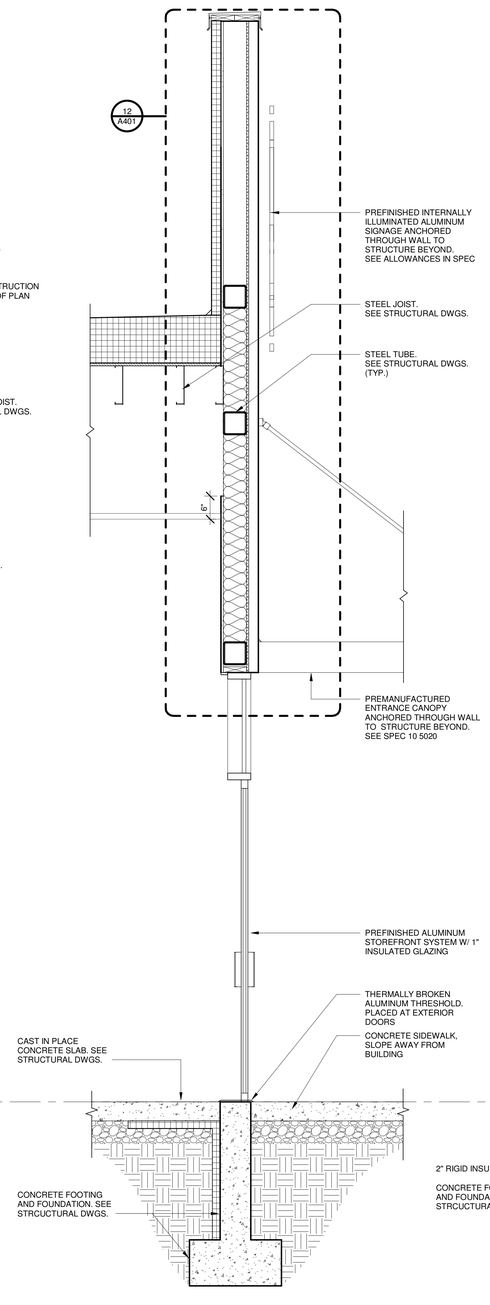
1 WALL SECTION
SCALE: 3/4" = 1'-0"



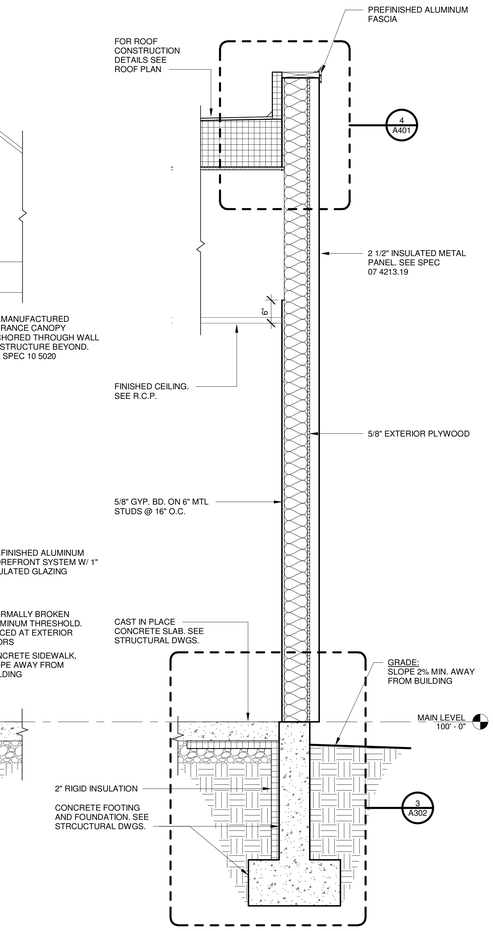
2 WALL SECTION
SCALE: 3/4" = 1'-0"



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



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



5 WALL SECTION
SCALE: 3/4" = 1'-0"

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WALL SECTIONS

DWG. NO.
A301

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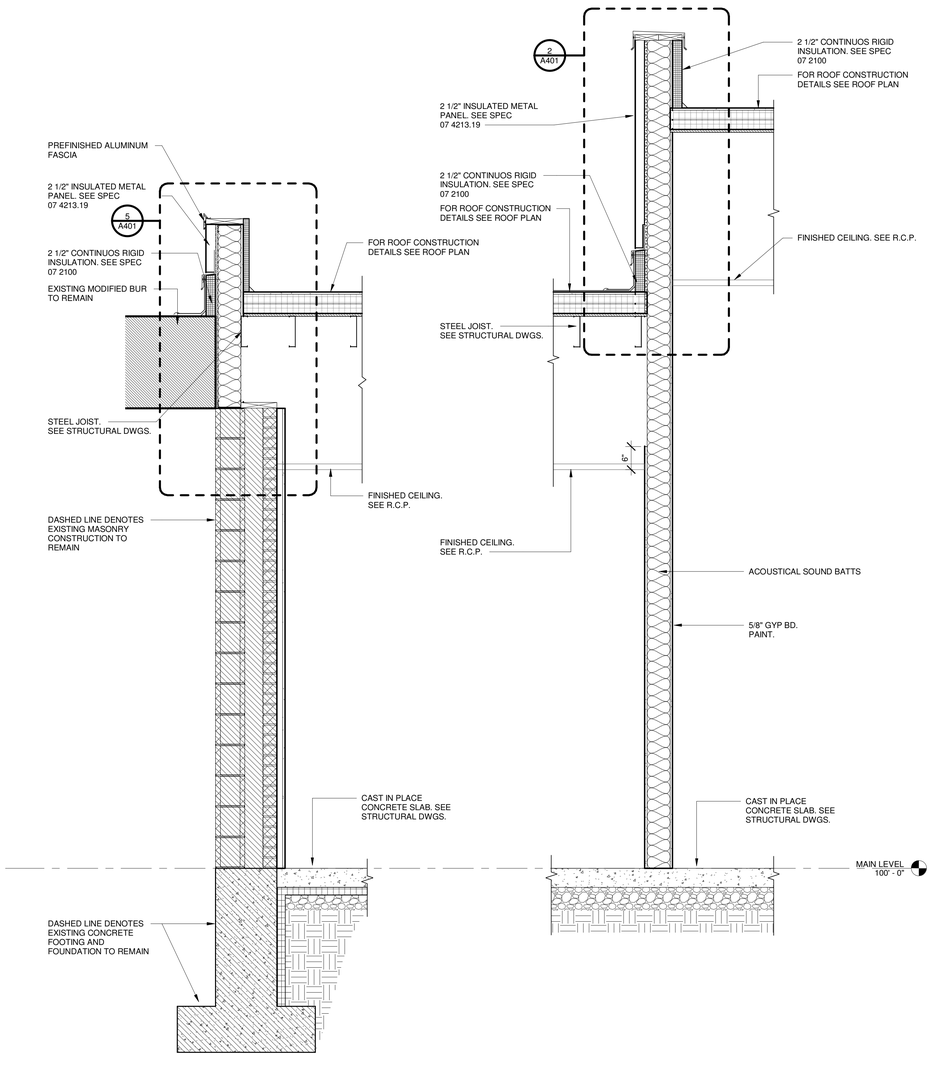
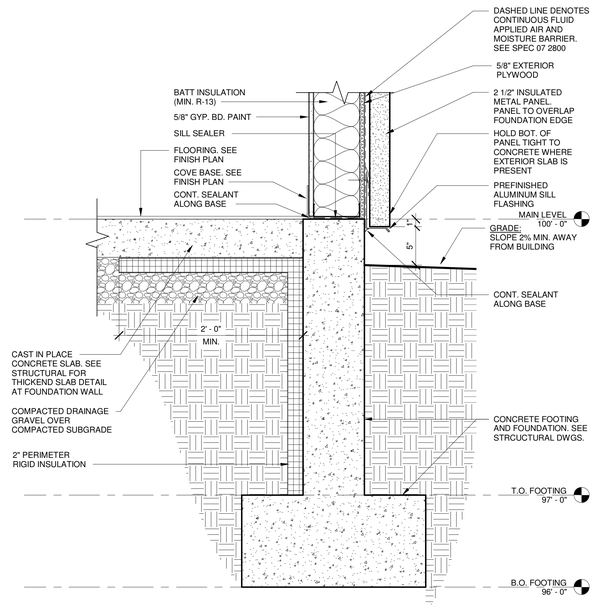
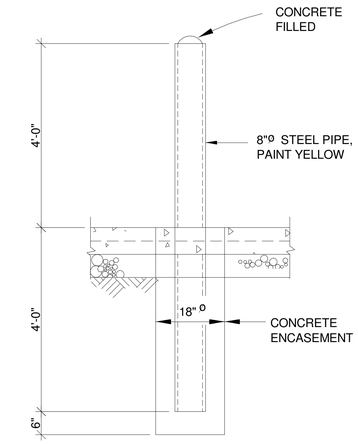


1 WALL SECTION
SCALE: 3/4" = 1'-0"

2 WALL SECTION
SCALE: 3/4" = 1'-0"



3 DETAIL @ METAL PANEL SILL
SCALE: 1 1/2" = 1'-0"



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

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PROJECT NUMBER: **5910C**

WALL SECTIONS

DWG. NO.
A302

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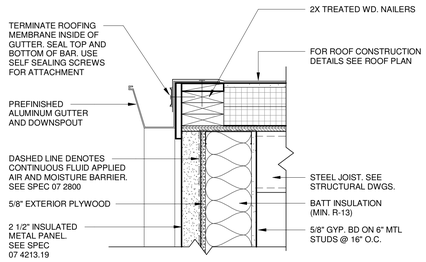
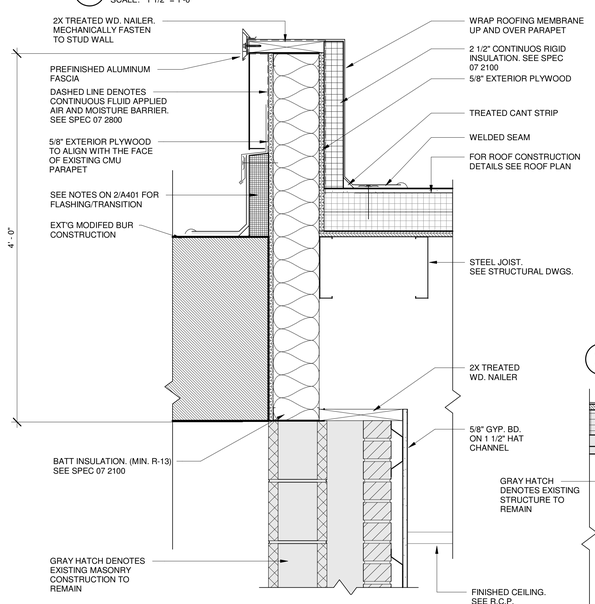
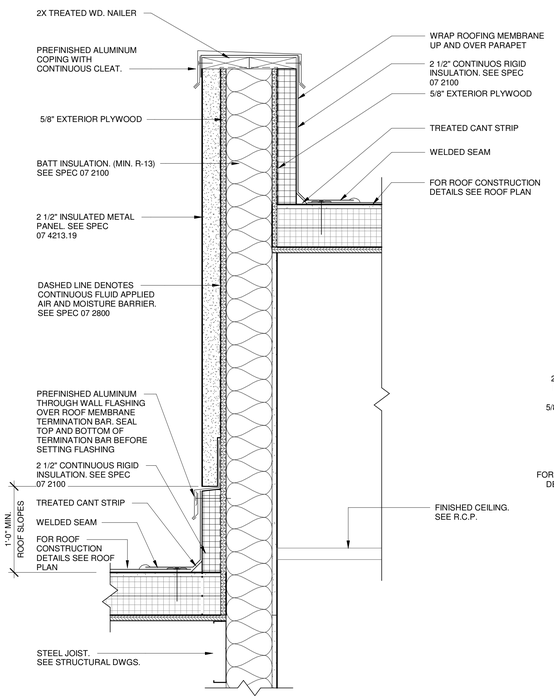


1 DETAIL @ GUTTER TERMINATION

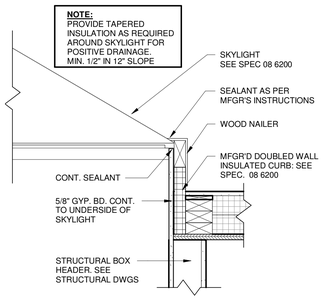
SCALE: 1 1/2" = 1'-0"





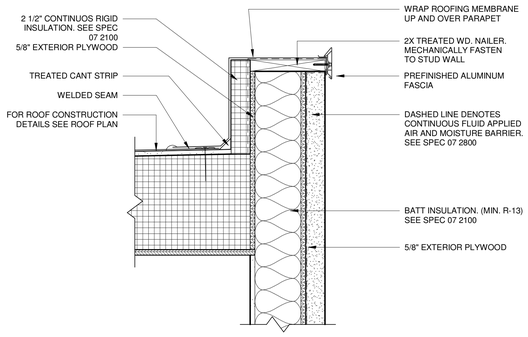
2 DETAIL @ NEW LOW TO HIGH ROOF

SCALE: 1 1/2" = 1'-0"



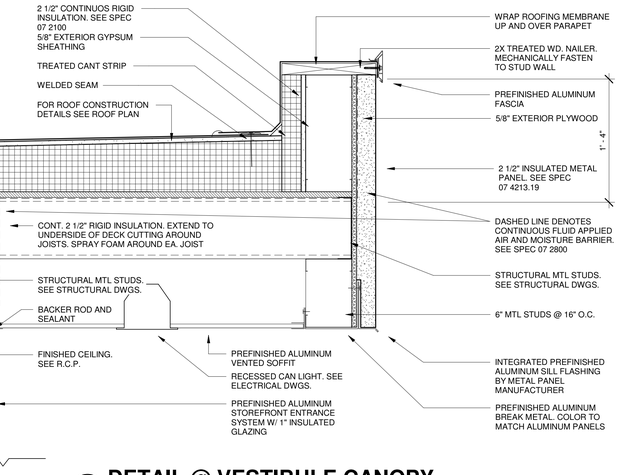
3 DETAIL @ SKYLIGHT

SCALE: 1 1/2" = 1'-0"



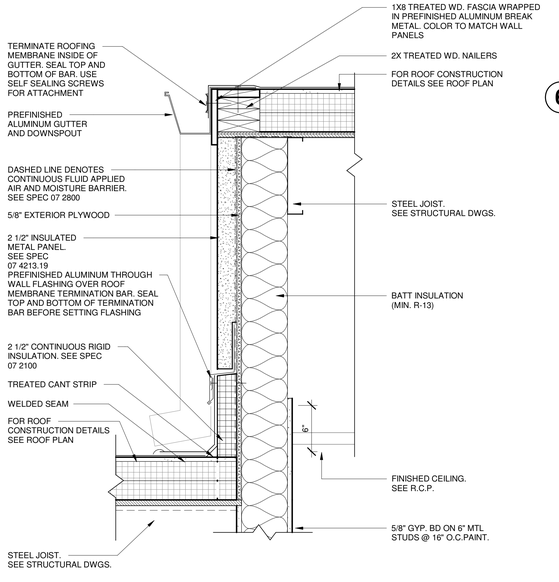
4 DETAIL @ TYP. PARAPET

SCALE: 1 1/2" = 1'-0"



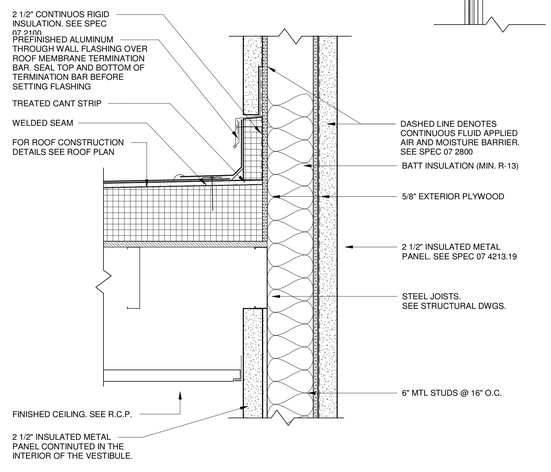
5 DETAIL @ NEW PARAPET TO EXISTING PARAPET

SCALE: 1 1/2" = 1'-0"



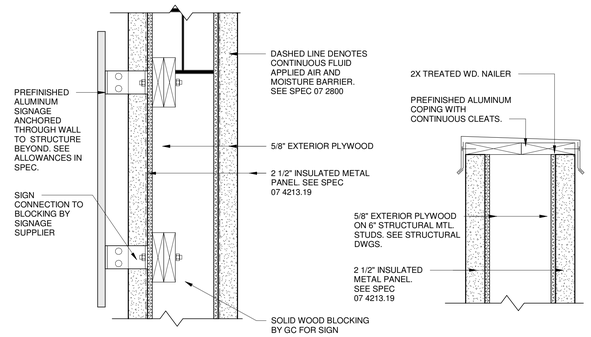
6 DETAIL @ VEST. ROOF TO EXIST. BLDG.

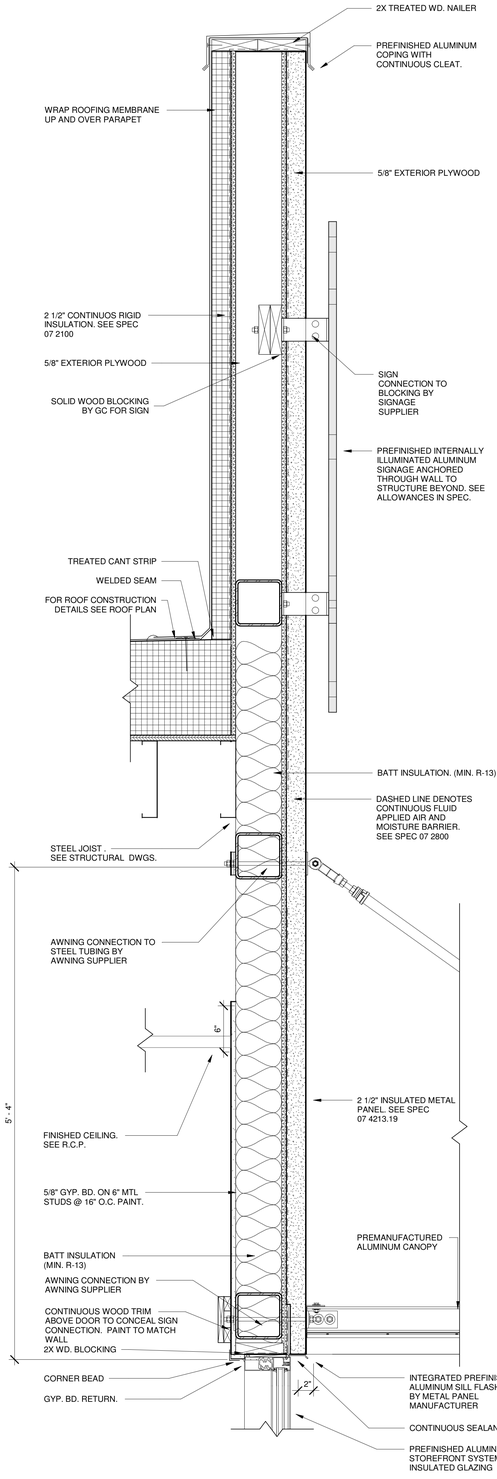
SCALE: 1 1/2" = 1'-0"



7 DETAIL @ VESTIBULE CANOPY

SCALE: 1 1/2" = 1'-0"





8 DETAIL @ HIGH ROOF GUTTER

SCALE: 1 1/2" = 1'-0"

9 DETAIL @ VEST. ROOF TO SIGNAGE WALL

SCALE: 1 1/2" = 1'-0"

10 DETAIL @ SIGN ATTACHMENT

SCALE: 1 1/2" = 1'-0"

11 DETAIL @ SIGN COPING

SCALE: 1 1/2" = 1'-0"

12 DETAIL @ ENTRANCE CANOPY

SCALE: 1 1/2" = 1'-0"

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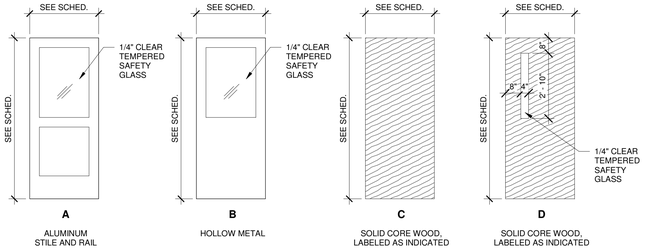
DETAILS

DWG. NO.
A401

5/12/2020 11:00:09 AM G:\ARCHITECHNICS INC.

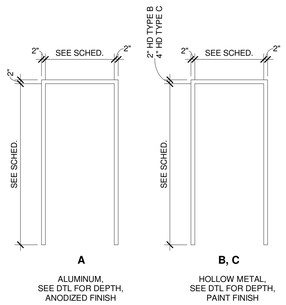
DOOR SCHEDULE - ADDITION

MARK	SIZE			DOOR		FRAME				HARDWARE	COMMENTS
	WIDTH	HEIGHT	THICKNESS	TYPE	FINISH	TYPE	FINISH	HEAD	JAMB		
100	6' - 0"	7' - 0"	1 3/4"	1A/A500	ANODIZED	2A/A500	SEE DTLS	MANUF.	MANUF.	1	ACCESS CONTROL BY OWNER - SEE ALLOWANCES
101	6' - 0"	7' - 0"	1 3/4"	1A/A500	ANODIZED	2A/A500	SEE DTLS	MANUF.	MANUF.	2	ACCESS CONTROL BY OWNER - SEE ALLOWANCES
102	3' - 0"	7' - 0"	1 3/4"	1D/A500	STAIN	2B/A500	PAINT	4/A500	5/A500	3a	ACCESS CONTROL BY OWNER - SEE ALLOWANCES
102A	3' - 0"	7' - 0"	1 3/4"	1D/A500	STAIN	2B/A500	PAINT	4/A500	5/A500	3b	ACCESS CONTROL BY OWNER - SEE ALLOWANCES
102B	3' - 0"	7' - 0"	1 3/4"	1D/A500	STAIN	2B/A500	PAINT	4/A500	5/A500	3b	ACCESS CONTROL BY OWNER - SEE ALLOWANCES
103	3' - 0"	7' - 0"	1 3/4"	1C/A500	STAIN	2B/A500	PAINT	4/A500	5/A500	4	
104	6' - 0"	7' - 0"	1 3/4"	EXTG	PAINT	EXTG	PAINT	6/A500	7/A500	EXTG	EXISTING DOOR RELOCATED, ACCESS CONTROL BY OWNER, SEE ALLOWANCES
105	3' - 0"	7' - 0"	1 3/4"	1D/A500	STAIN	2B/A500	PAINT	4/A500	5/A500	5	
105A	3' - 0"	7' - 0"	1 3/4"	1D/A500	STAIN	2B/A500	PAINT	4/A500	5/A500	5	
106	3' - 0"	7' - 0"	1 3/4"	1D/A500	STAIN	2B/A500	PAINT	4/A500	5/A500	5	
106A	3' - 0"	7' - 0"	1 3/4"	1D/A500	STAIN	2B/A500	PAINT	4/A500	5/A500	5	
107	6' - 0"	7' - 0"	1 3/4"	1A/A500	ANODIZED	2A/A500	SEE DTLS	MANUF.	MANUF.	1	ACCESS CONTROL BY OWNER - SEE ALLOWANCES
107A	6' - 0"	7' - 0"	1 3/4"	1A/A500	ANODIZED	2A/A500	SEE DTLS	8/A500	9/A500	2	ACCESS CONTROL BY OWNER - SEE ALLOWANCES

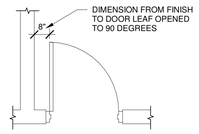


1 DOOR TYPES
SCALE: 3/8" = 1'-0"

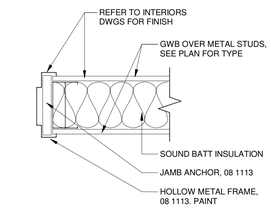
ALL GLAZING IN EXTERIOR DOORS TO RECEIVE SECURITY FILM EQ. TO 3M ULTRA NIGHT VISION S25 OR EQUAL.



2 DOOR FRAME TYPES
SCALE: 3/8" = 1'-0"

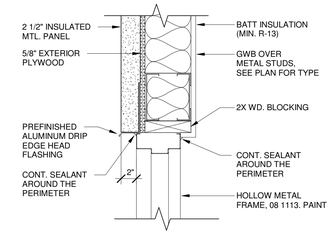


3 CLEARANCE DTL.
SCALE: 3/8" = 1'-0"

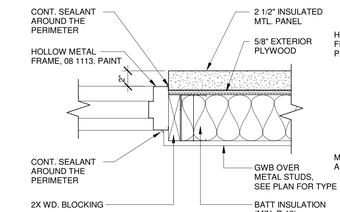


4 GYP. BD. HEAD DETAIL
SCALE: 1 1/2" = 1'-0"

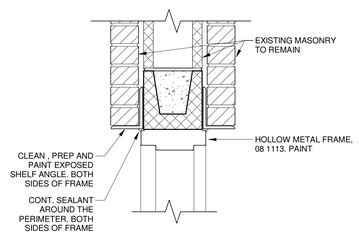
5 GYP. BD. JAMB DETAIL
SCALE: 1 1/2" = 1'-0"



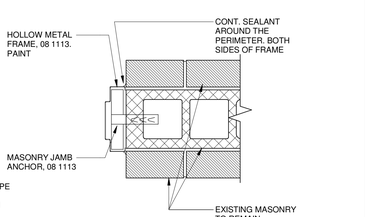
6 METAL PANEL HEAD DETAIL
SCALE: 1 1/2" = 1'-0"



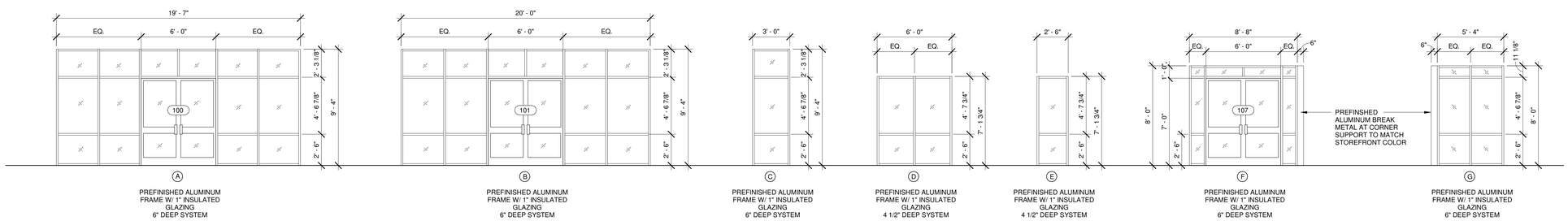
7 METAL PANEL JAMB DETAIL
SCALE: 1 1/2" = 1'-0"



8 MASONRY HEAD DETAIL
SCALE: 1 1/2" = 1'-0"

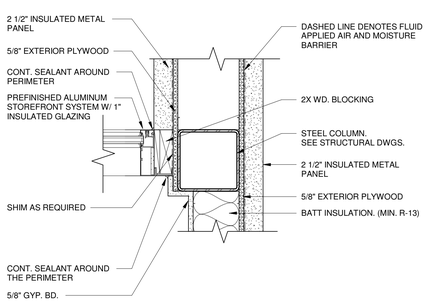


9 MASONRY JAMB DETAIL
SCALE: 1 1/2" = 1'-0"

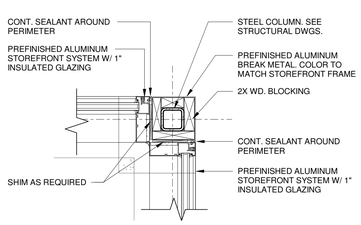


10 WINDOW FRAME TYPES
SCALE: 1/4" = 1'-0"

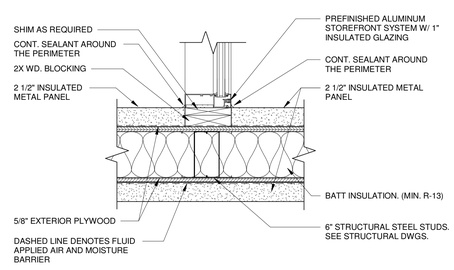
ALL GLAZING IN EXTERIOR DOORS AND EXTERIOR WINDOWS TO RECEIVE SECURITY FILM EQ. TO 3M ULTRA NIGHT VISION S25 OR EQUAL.



11 PLAN DETAIL @ ENTRY
SCALE: 1 1/2" = 1'-0"



12 PLAN DETAIL @ STOREFRONT CORNER
SCALE: 1 1/2" = 1'-0"



13 PLAN DETAIL @ SIGNAGE WALL
SCALE: 1 1/2" = 1'-0"

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DOOR AND WINDOW SCHEDULE AND DETAILS

DWG. NO.
A500

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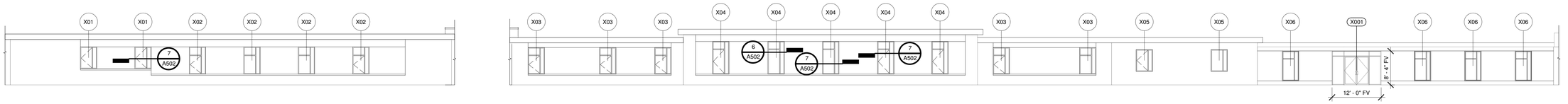
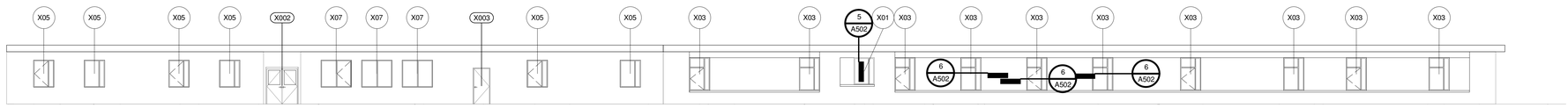


1 NORTH ELEVATION

SCALE: 3/32" = 1'-0"

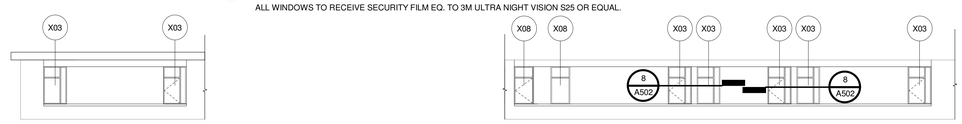
ALL WINDOWS TO RECEIVE SECURITY FILM EQ. TO 3M ULTRA NIGHT VISION S25 OR EQUAL.



2 SOUTH ELEVATION

SCALE: 3/32" = 1'-0"

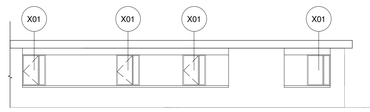
ALL WINDOWS TO RECEIVE SECURITY FILM EQ. TO 3M ULTRA NIGHT VISION S25 OR EQUAL.

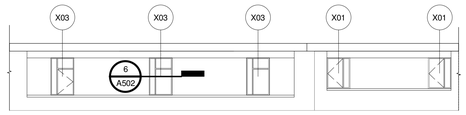


3 LIBRARY COURT SOUTH ELEVATION

SCALE: 3/32" = 1'-0"

ALL WINDOWS TO RECEIVE SECURITY FILM EQ. TO 3M ULTRA NIGHT VISION S25 OR EQUAL.

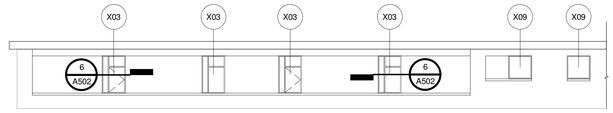




4 LIBRARY COURT EAST ELEVATION

SCALE: 3/32" = 1'-0"

ALL WINDOWS TO RECEIVE SECURITY FILM EQ. TO 3M ULTRA NIGHT VISION S25 OR EQUAL.



5 ADMIN COURT SOUTH ELEVATION

SCALE: 3/32" = 1'-0"

ALL WINDOWS TO RECEIVE SECURITY FILM EQ. TO 3M ULTRA NIGHT VISION S25 OR EQUAL.

6 ADMIN COURT WEST ELEVATION

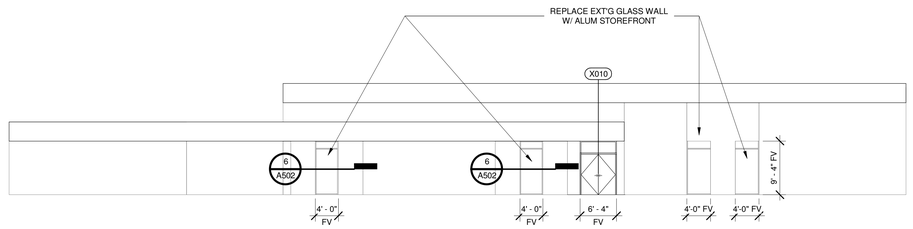
SCALE: 3/32" = 1'-0"

ALL WINDOWS TO RECEIVE SECURITY FILM EQ. TO 3M ULTRA NIGHT VISION S25 OR EQUAL.

7 ADMIN COURT NORTH ELEVATION

SCALE: 3/32" = 1'-0"

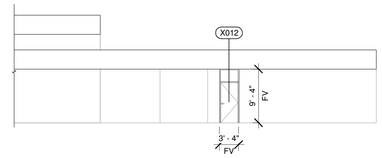
ALL WINDOWS TO RECEIVE SECURITY FILM EQ. TO 3M ULTRA NIGHT VISION S25 OR EQUAL.



8 MUSIC BUILDING NORTH ELEVATION

SCALE: 3/32" = 1'-0"

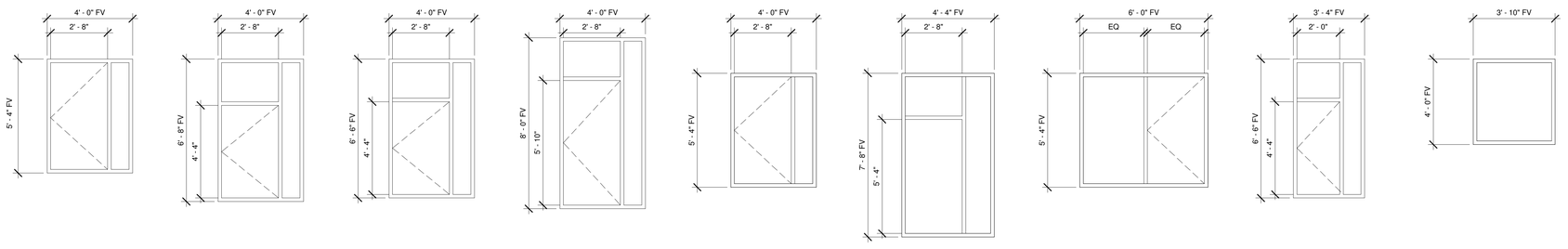
ALL WINDOWS TO RECEIVE SECURITY FILM EQ. TO 3M ULTRA NIGHT VISION S25 OR EQUAL.



10 MUSIC BUILDING SOUTH ELEVATION

SCALE: 3/32" = 1'-0"

ALL WINDOWS TO RECEIVE SECURITY FILM EQ. TO 3M ULTRA NIGHT VISION S25 OR EQUAL.



X01	X02	X03	X04	X05	X06	X07	X08	X07
ALUMINUM, OPERABLE AND FIXED AS INDICATED ON ELEVATION SEE SPEC 08 5113	ALUMINUM, OPERABLE AND FIXED AS INDICATED ON ELEVATION SEE SPEC 08 5113	ALUMINUM, OPERABLE AND FIXED AS INDICATED ON ELEVATION SEE SPEC 08 5113	ALUMINUM, OPERABLE AND FIXED AS INDICATED ON ELEVATION SEE SPEC 08 5113	ALUMINUM, OPERABLE AND FIXED AS INDICATED ON ELEVATION SEE SPEC 08 5113	ALUMINUM, FIXED SEE SPEC 08 5113	ALUMINUM, OPERABLE AND FIXED AS INDICATED ON ELEVATION SEE SPEC 08 5113	ALUMINUM, OPERABLE AND FIXED AS INDICATED ON ELEVATION SEE SPEC 08 5113	ALUMINUM, FIXED SEE SPEC 08 5113

9 WINDOW TYPES

SCALE: 3/8" = 1'-0"

ALL WINDOWS TO RECEIVE SECURITY FILM EQ. TO 3M ULTRA NIGHT VISION S25 OR EQUAL.

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WINDOW AND DOOR REPLACEMENT ELEVATIONS

DWG. NO.

A501

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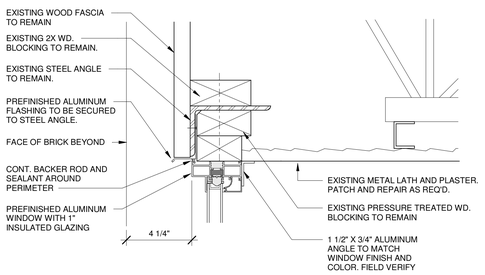
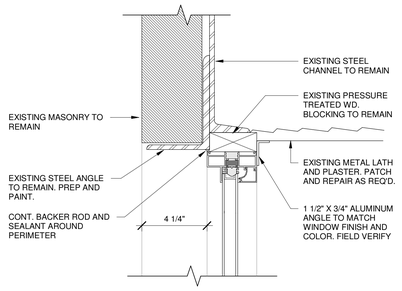


1 WINDOW HEAD DETAIL
SCALE: 3" = 1'-0"



5 WINDOW HEAD DETAIL
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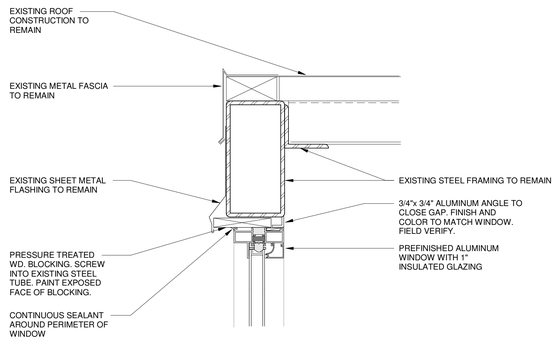
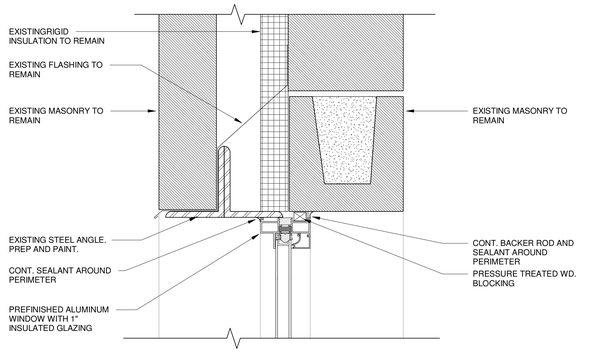
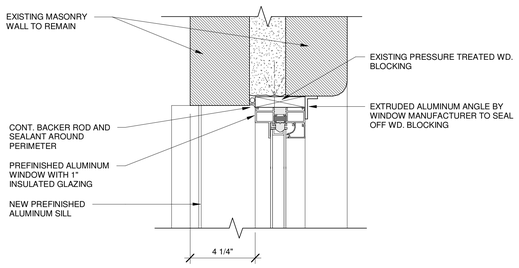


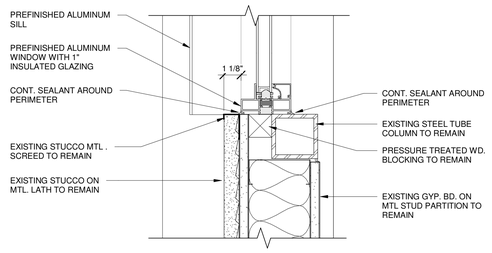
9 WINDOW HEAD DETAIL
SCALE: 3" = 1'-0"



13 WINDOW HEAD DETAIL
SCALE: 3" = 1'-0"



2 WINDOW JAMB DETAIL
SCALE: 3" = 1'-0"



6 WINDOW JAMB DETAIL
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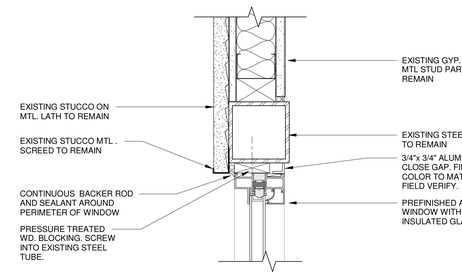
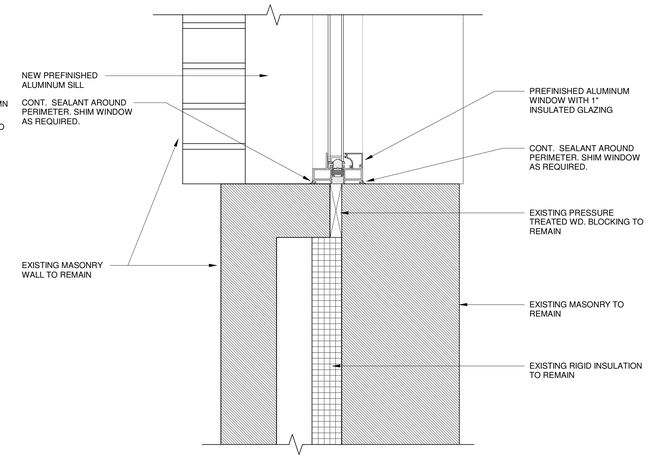
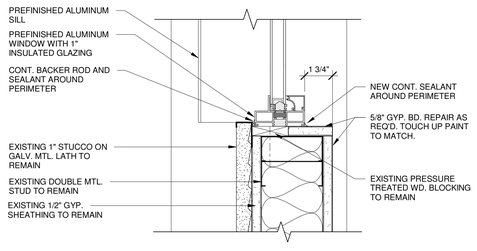


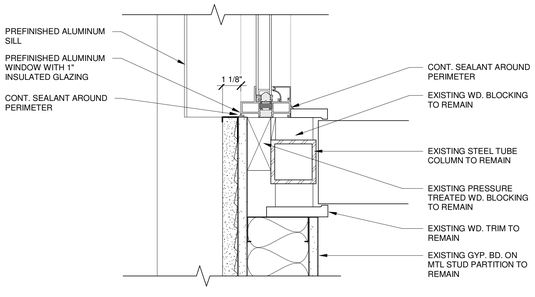
10 WINDOW JAMB DETAIL
SCALE: 3" = 1'-0"



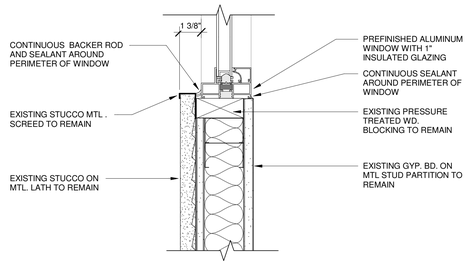
14 WINDOW JAMB DETAIL
SCALE: 3" = 1'-0"



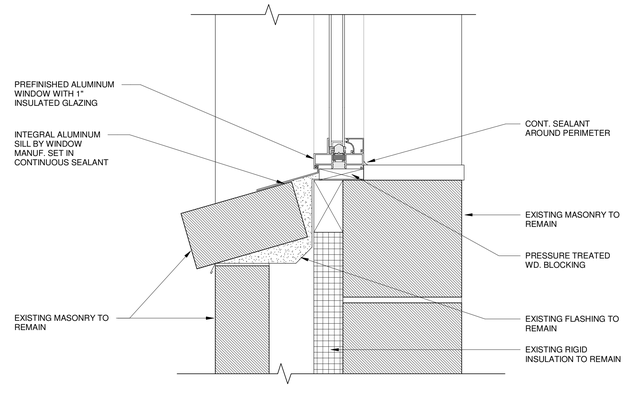
3 WINDOW JAMB DETAIL
SCALE: 3" = 1'-0"



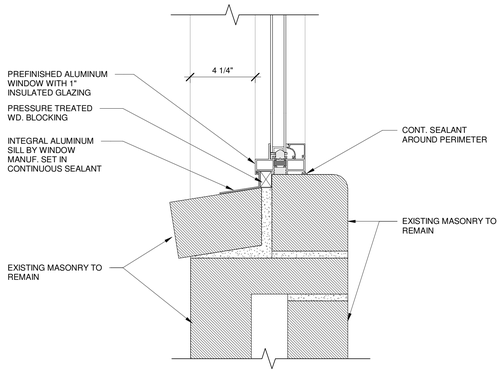
7 WINDOW JAMB DETAIL
SCALE: 3" = 1'-0"



11 WINDOW JAMB DETAIL
SCALE: 3" = 1'-0"



15 WINDOW SILL DETAIL
SCALE: 3" = 1'-0"



4 WINDOW SILL DETAIL
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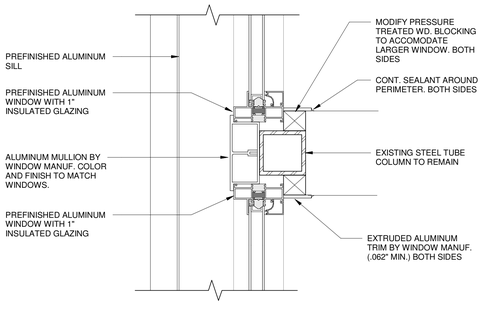

8 WINDOW JAMB DETAIL
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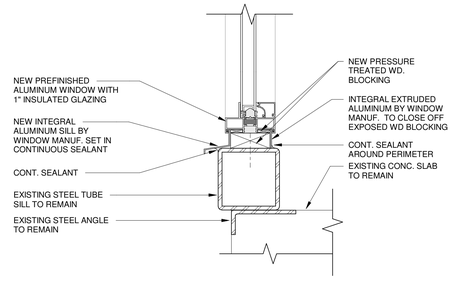

12 WINDOW SILL DETAIL
SCALE: 3" = 1'-0"

15 WINDOW SILL DETAIL
SCALE: 3" = 1'-0"

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WINDOW AND DOOR REPLACEMENT DETAILS

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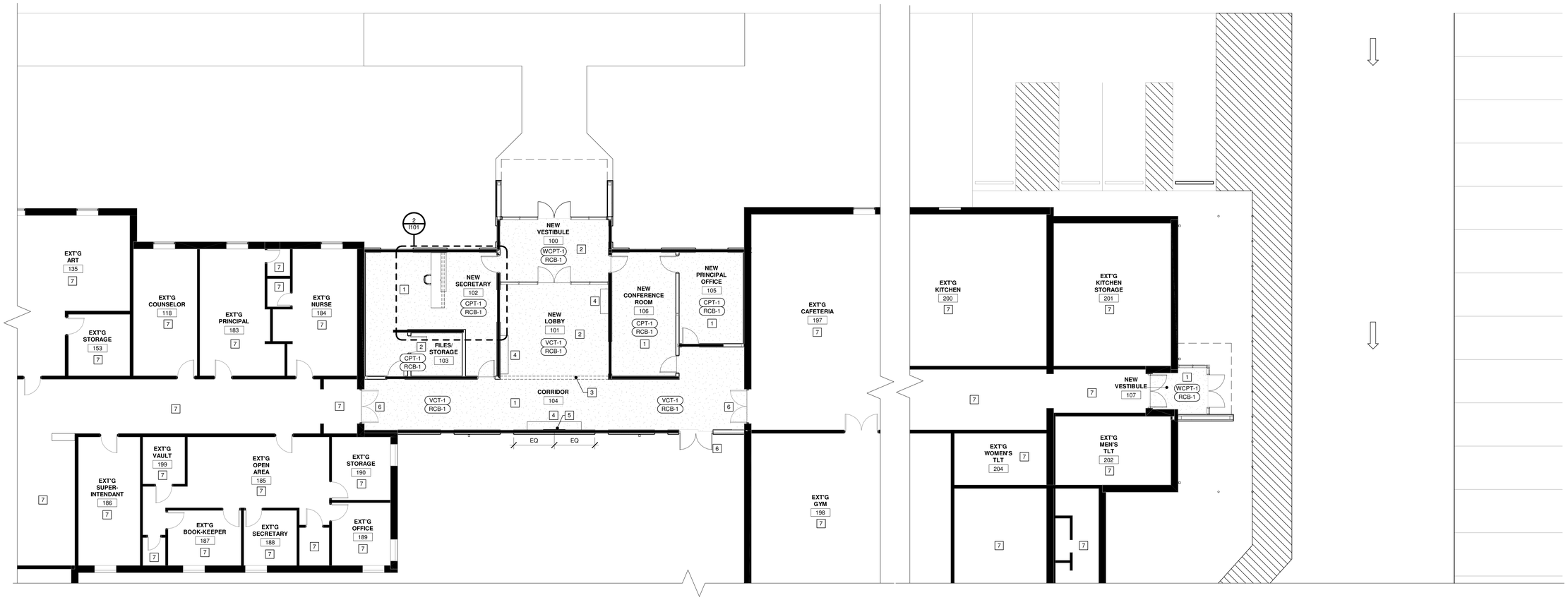


1 INTERIOR FINISH AND CASEWORK PLAN

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

0 4' 8' 16'

GENERAL FINISH NOTES

1. WORKMANSHIP SHALL BE THE BEST OF ITS RESPECTIVE KINDS FOR EACH OF THE VARIOUS TRADES EMPLOYED.
2. FINISH SUBSTITUTIONS SHALL BE APPROVED BY INTERIOR DESIGNER ONLY. SUBMIT IN WRITING THE SPECIFIED PRODUCT AND INFORMATION ALONG WITH THE SUBSTITUTED ITEM FOR REVIEW & APPROVAL.
3. PROVIDE AND CONTINUE SCHEDULED FLOORING FROM PARTITION TO PARTITION AND UNDER MILLWORK UNLESS OTHERWISE NOTED.
4. FLOOR TRANSITIONS SHALL OCCUR AT THE CENTERLINE OF DOOR LEAF, UNLESS OTHERWISE NOTED. TRANSITIONS TO BE LOW PROFILE SCHLUTER PRODUCTS, ANODIZED ALUMINUM FINISH.
5. ALL WALLS SHALL BE PAINTED (P1) UNLESS OTHERWISE NOTED ON PLANS.
6. ALL DOOR FRAMES TO BE PAINTED (P1) UNLESS NOTED OTHERWISE.
7. ALL ACOUSTICAL CEILINGS TO BE ACT-1 UNLESS NOTED OTHERWISE.
8. ALL OUTLET COVERS, RECEPTACLES, AND TRIMS TO BE WHITE.
9. ALL WALL MOUNTED ITEMS IN OCCUPIED SPACES INCLUDING ELECTRICAL, MECHANICAL, ETC. TO BE PAINTED TO MATCH WALL.

KEYED NOTE - FINISH PLAN [X]

1 ALL WALLS TO BE PAINTED (P1) WITH ONE ACCENT WALL PAINTED (P2).
2 ALL WALLS TO BE PAINTED (P1).
3 HEADER ABOVE TO BE PAINTED (P3).
4 DISPLAY UNIT BY OWNER.
5 FLAT PANEL TV, PROVIDED BY OWNER, INSTALLED BY CONTRACTOR. VERIFY FINAL LOCATION WITH OWNER AND DESIGNER.
6 PAINT EXISTING DOORS (P1).
7 EXISTING FINISHES TO REMAIN, NOT IN SCOPE.

PLAN LEGEND

FLOOR MATERIAL
BASE MATERIAL

FLOORING INSTALLATION DIRECTION, TBD

ABBREVIATIONS

ACT	ACOUSTIC CEILING TILE
CPT	CARPET TILE
MFG	MANUFACTURER
P	PAINT
PL	PLASTIC LAMINATE
RCB	RUBBER COVE BASE
VCT	VINYL COVE BASE
WCT	WALK OFF CARPET TILE

INTERIOR FINISH SPECIFICATIONS

ACOUSTICAL CEILING TILE
ACT-1 (MAIN)
MFG: ARMSTRONG
STYLE: FINE FISSURED 1733
EDGE: 15/16" ANGLED TEGULAR
SIZE: 24" X 48"
COLOR: WHITE
GRID: PRELUDE XL, 15/16", WHITE

CARPET TILE
CPT-1
STYLE TBD. PROVIDE ALLOWANCE OF $2.50/SF MATERIAL ONLY FOR SELECTION AT LATER DATE.

PAINT
P1
MFG: SHERWIN WILLIAMS
COLOR: TBD
NO: TBD

P2
MFG: SHERWIN WILLIAMS
COLOR: TBD
NO: TBD

P3
MFG: SHERWIN WILLIAMS
COLOR: GREEK VILLA
NO: SW 7551

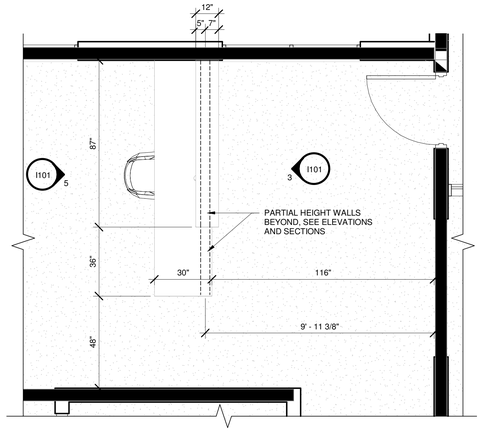
PLASTIC LAMINATE
PL-1
MFG: TBD
STYLE: TBD
STYLE #: TBD

PL-2
MFG: TBD
STYLE: TBD
STYLE #: TBD

RUBBER COVE BASE
RCB-1
MFG: TARKETT
COLOR: TBD
SIZE: 4"
REP: ADAM GLASER - 314.405.0147

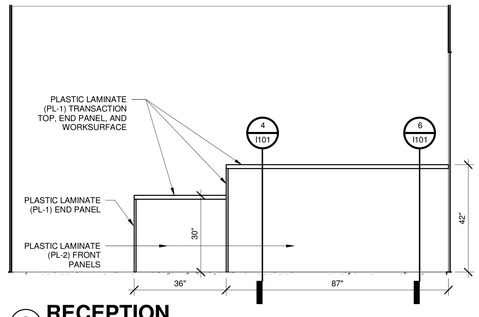
VINYL COMPOSITION TILE
VCT-1
MFG: ARMSTRONG
STYLE: STANDARD EXCELON
COLOR: TBD
SIZE: 12"X12"
INSTALL: TBD
REP: NANCY WASER - 636.448.9409

WALK - OFF CARPET TILE
WCT-1
STYLE TBD. PROVIDE ALLOWANCE OF $3.50/SF MATERIAL ONLY FOR SELECTION AT LATER DATE.



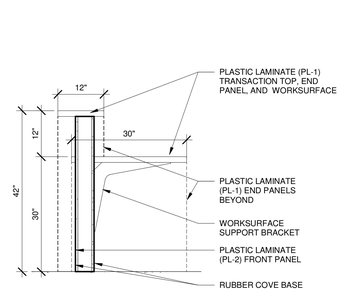
2 RECEPTION CASEWORK

SCALE: 3/8" = 1'-0"



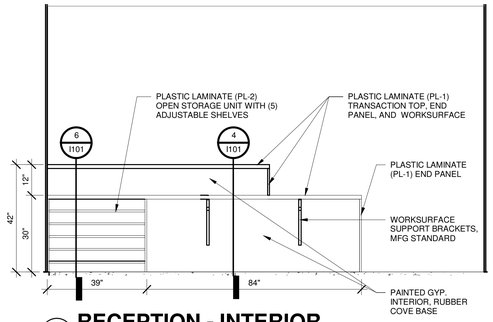
3 RECEPTION

SCALE: 1/2" = 1'-0"



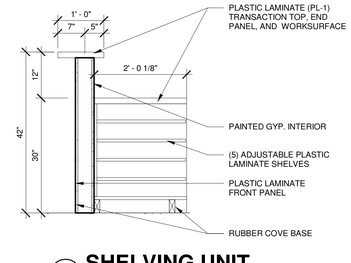
4 RECEPTION SECTION

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



5 RECEPTION - INTERIOR

SCALE: 1/2" = 1'-0"



6 SHELVING UNIT

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

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RALLS COUNTY R-II SCHOOL DISTRICT
NEW HIGH SCHOOL ADDITIONS
HIGHWAY 19, CENTER, MISSOURI 63436

ISSUED FOR BIDDING

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ISSUE DATE: **5/8/20**

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PROJECT NUMBER: **5910C**

INTERIOR FINISH AND CASEWORK PLAN

DWG. NO.
I101

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MECHANICAL NOTES

1. INSTALL NEW 24X24 ALUMINUM CEILING DIFFUSER WITH 10" DUCT CONNECTION. BALANCE TO CFM INDICATED.
2. INSTALL NEW 20X10 SINGLE DEFLECTION ALUMINUM WALL GRILLE AT ~10'-4" A.F.F. INSTALL OPPOSED BLADE DAMPER IN DUCT AND BALANCE TO CFM INDICATED.
3. ROUTE DUCT DOWN AND UNDER BOX HEADER AS REQUIRED.
4. FLARE RA DUCT TO 36/14 AND TERMINATE OPEN FOR PLENUM RETURN.
5. REMOVE EXISTING HVAC CONTROL CABLING CROSSING CORRIDOR TO BE DEMOLISHED. RELOCATE/INSTALL NEW CABLING AS REQUIRED TO RECONNECT EXISTING UNITS TO EXISTING SYSTEM. SEE DWG. E102 FOR NEW 2" CONDUIT BY OTHERS.
6. INSTALL 24/24 EGG CRATE RA GRILL WITH FULL SIZE PLENUM AND MINIMUM 1 ELBOW AND TERMINATE OPEN FOR PLENUM RETURN.
7. INSTALL 10/10 TRANSFER DUCT WITH MINIMUM 2 ELBOWS AS SHOWN AND TERMINATE OPEN ON EACH END.

PLUMBING NOTES

1. MODIFY EXISTING 2" GAS PIPE NEAR GROUND AND EXTEND NEW 1" PIPE UP WITH ISOLATION VALVE TO ABOVE CANOPY.
2. EXTEND GAS PIPING ALONG WALL AS SHOWN. INSTALL ROOF OR WALL PIPE SUPPORTS AS REQUIRED.
3. OFFSET GAS PIPING AS REQUIRED TO CLEAR WINDOWS
4. EXTEND 3/4" GAS PIPING AND INSTALL REGULATOR (150 MBH 2LB TO 7" WC), EXTEND 3/4" GAS PIPING TO SERVE UNIT.
5. INSTALL SIOUX CHIEF OR EQUAL 868-1504 4" ROOF DRAIN. COORDINATE CONNECTION TO SHEET METAL DOWNSPOUT BY OTHERS.

RTU-1,2
LENNOX OR EQUAL BY CARRIER OR DAIKIN
LGH074U4E
6 TON VARIABLE SPEED, 2200 CFM
150 MBH, 4 STAGE NATURAL GAS HEAT
208V, 33 MCA
DIRECT DRIVE MOTOR,
PHASE LOSS PROTECTION
FACTORY DISCONNECT
POWERED CONVENIENCE OUTLET,
ENTHALPY ECONOMIZER
CO2 SENSOR FOR DEMAND CONTROL VENTILATION
365 DAY PROGRAMMABLE THERMOSTAT
RA SMOKE DETECTOR
INSTALL FULL SIZE SA/RA DUCT DOWN FROM UNIT WITH FLEX CONNECTION

1 MECHANICAL / PLUMBING PLAN
SCALE: 1/8" = 1'-0"

0 4" 8" 16"

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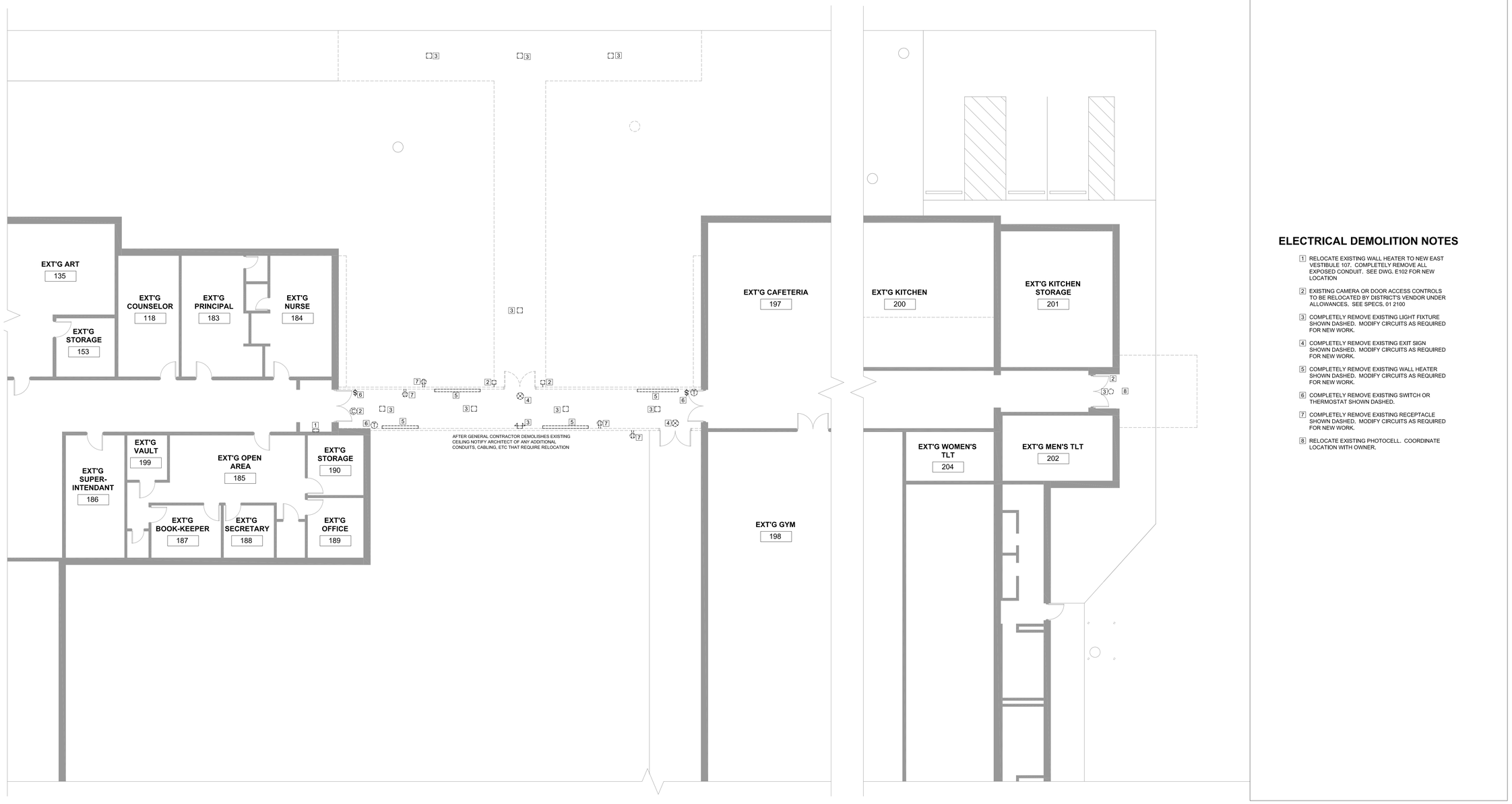
MECHANICAL / PLUMBING PLAN

DWG. NO.
MP101



1 ELECTRICAL DEMOLITION PLAN

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

0 4' 8' 16'

ELECTRICAL DEMOLITION NOTES

1. RELOCATE EXISTING WALL HEATER TO NEW EAST VESTIBULE 107. COMPLETELY REMOVE ALL EXPOSED CONDUIT. SEE DWG. E102 FOR NEW LOCATION
2. EXISTING CAMERA OR DOOR ACCESS CONTROLS TO BE RELOCATED BY DISTRICT'S VENDOR UNDER ALLOWANCES. SEE SPECS, 01 2100
3. COMPLETELY REMOVE EXISTING LIGHT FIXTURE SHOWN DASHED. MODIFY CIRCUITS AS REQUIRED FOR NEW WORK.
4. COMPLETELY REMOVE EXISTING EXIT SIGN SHOWN DASHED. MODIFY CIRCUITS AS REQUIRED FOR NEW WORK.
5. COMPLETELY REMOVE EXISTING WALL HEATER SHOWN DASHED. MODIFY CIRCUITS AS REQUIRED FOR NEW WORK.
6. COMPLETELY REMOVE EXISTING SWITCH OR THERMOSTAT SHOWN DASHED.
7. COMPLETELY REMOVE EXISTING RECEPTACLE SHOWN DASHED. MODIFY CIRCUITS AS REQUIRED FOR NEW WORK.
8. RELOCATE EXISTING PHOTOCELL. COORDINATE LOCATION WITH OWNER.

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ELECTRICAL DEMOLITION PLAN

DWG. NO.
ED101

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ELECTRICAL NOTES

1. MODIFY EXISTING NEARBY CIRCUIT OR EXTEND NEW FROM EXISTING PANEL TO SERVE NEW LITHONIA OR EQUAL EPANL2X4ZTMVOLT 2X4 DIMMABLE LED PANEL LIGHT FIXTURE. INSTALL NEW DIMMING SWITCHING AS INDICATED. FIXTURES 1E SHALL BE EMERGENCY BACKUP FIXTURES.
2. MODIFY EXISTING NEARBY CIRCUIT OR EXTEND NEW FROM EXISTING PANEL TO SERVE NEW LITHONIA OR EQUAL EPANL2X2ZTMVOLT 2X2 DIMMABLE LED PANEL LIGHT FIXTURE. INSTALL NEW DIMMING SWITCHING AS INDICATED. FIXTURES 1E SHALL BE EMERGENCY BACKUP FIXTURES.
3. MODIFY EXISTING NEARBY CIRCUIT OR EXTEND NEW FROM EXISTING PANEL TO SERVE NEW LITHONIA OR EQUAL LQMSWR120/277ELNSD EMERGENCY EXIT SIGN. SEE PLAN FOR CONFIGURATION
4. MODIFY EXISTING NEARBY CIRCUIT OR EXTEND NEW FROM EXISTING PANEL TO SERVE NEW LITHONIA OR EQUAL WSTLEDP340KWWMVOLTPE WALL MOUNTED EXTERIOR LIGHT FIXTURE.
5. MODIFY EXISTING NEARBY PHOTOCELL CONTROLLED CIRCUIT OR EXTEND NEW WITH PHOTOCELL FROM EXISTING PANEL TO SERVE NEW LITHONIA OR EQUAL OLLWULEDP140KMVOLTDOB EXTERIOR LED WALL CYLINDER LIGHT
7. RELOCATE EXISTING PHOTOCELL AND EXTEND EXISTING CIRCUIT AS REQUIRED TO SERVE NEW LITHONIA OR EQUAL LDN640/40LO6WRLSSMVOLTGZ10 EXTERIOR LED RECESSED CAN LIGHT
8. EXTEND 3/4" EMPTY CONDUIT FROM EXISTING CAMERA TO LOCATION OF NEW CAMERA TO BE INSTALLED BY DISTRICT VENDOR.
9. EXTEND EXISTING NEARBY PHOTOCELL CONTROLLED CIRCUIT TO NEW JUNCTION BOX FOR BACKLIT SIGN. COORDINATE WITH GENERAL CONTRACTOR. SEE DWG. A300.

1 **ELECTRICAL LIGHTING PLAN**
SCALE: 1/8" = 1'-0"

0 4" 8" 16"

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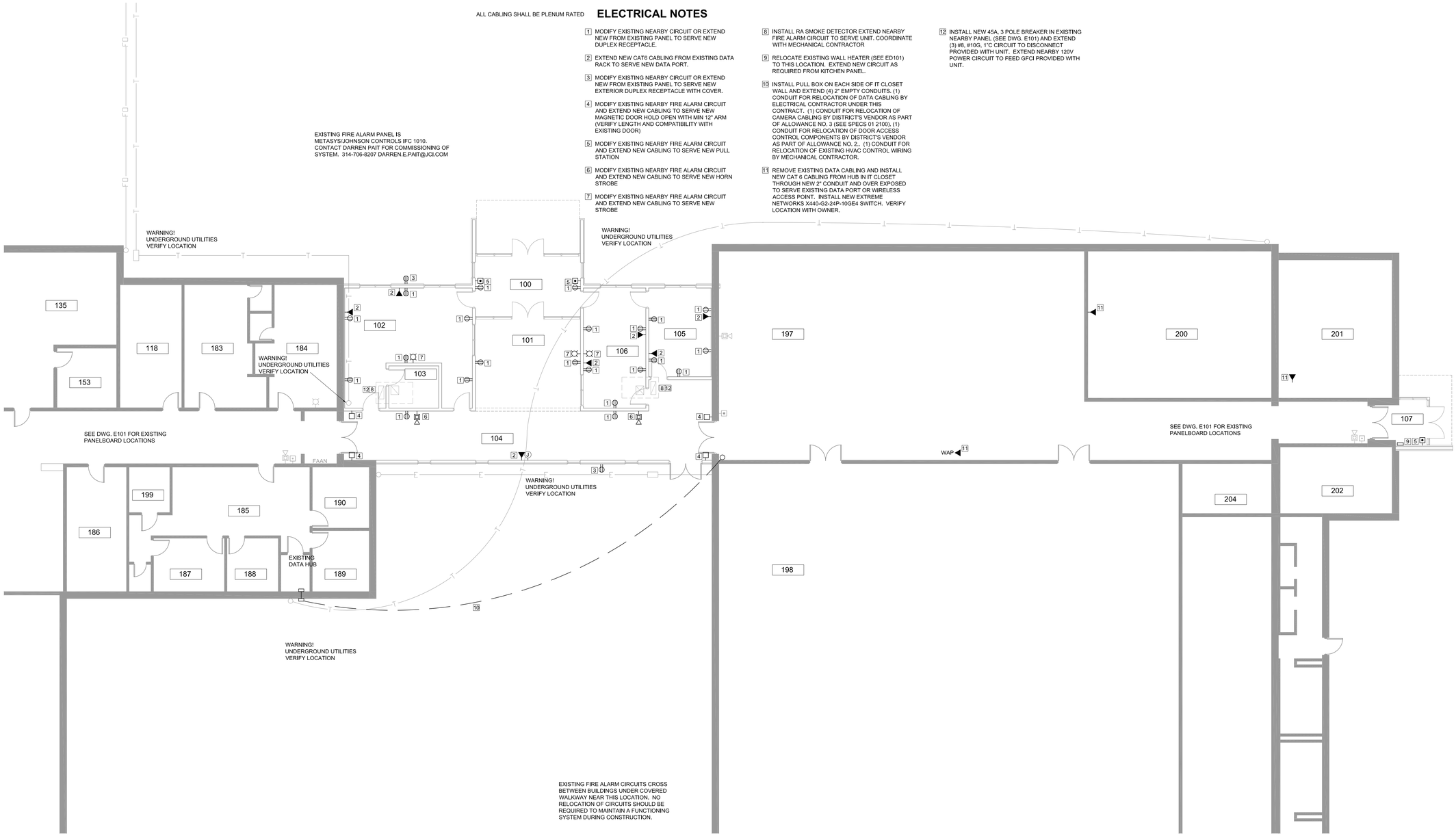
ELECTRICAL LIGHTING PLAN

DWG. NO.
E101

ALL CABLING SHALL BE PLENUM RATED

ELECTRICAL NOTES

1. MODIFY EXISTING NEARBY CIRCUIT OR EXTEND NEW FROM EXISTING PANEL TO SERVE NEW DUPLEX RECEPTACLE.
2. EXTEND NEW CAT6 CABLING FROM EXISTING DATA RACK TO SERVE NEW DATA PORT.
3. MODIFY EXISTING NEARBY CIRCUIT OR EXTEND NEW FROM EXISTING PANEL TO SERVE NEW EXTERIOR DUPLEX RECEPTACLE WITH COVER.
4. MODIFY EXISTING NEARBY FIRE ALARM CIRCUIT AND EXTEND NEW CABLING TO SERVE NEW MAGNETIC DOOR HOLD OPEN WITH MIN 12" ARM (VERIFY LENGTH AND COMPATIBILITY WITH EXISTING DOOR)
5. MODIFY EXISTING NEARBY FIRE ALARM CIRCUIT AND EXTEND NEW CABLING TO SERVE NEW PULL STATION
6. MODIFY EXISTING NEARBY FIRE ALARM CIRCUIT AND EXTEND NEW CABLING TO SERVE NEW HORN STROBE
7. MODIFY EXISTING NEARBY FIRE ALARM CIRCUIT AND EXTEND NEW CABLING TO SERVE NEW STROBE
8. INSTALL RA SMOKE DETECTOR EXTEND NEARBY FIRE ALARM CIRCUIT TO SERVE UNIT. COORDINATE WITH MECHANICAL CONTRACTOR
9. RELOCATE EXISTING WALL HEATER (SEE ED101) TO THIS LOCATION. EXTEND NEW CIRCUIT AS REQUIRED FROM KITCHEN PANEL.
10. INSTALL PULL BOX ON EACH SIDE OF IT CLOSET WALL AND EXTEND (4) 2" EMPTY CONDUITS. (1) CONDUIT FOR RELOCATION OF DATA CABLING BY ELECTRICAL CONTRACTOR UNDER THIS CONTRACT. (1) CONDUIT FOR RELOCATION OF CAMERA CABLING BY DISTRICT'S VENDOR AS PART OF ALLOWANCE NO. 3 (SEE SPECS 01 2100). (1) CONDUIT FOR RELOCATION OF DOOR ACCESS CONTROL COMPONENTS BY DISTRICT'S VENDOR AS PART OF ALLOWANCE NO. 2. (1) CONDUIT FOR RELOCATION OF EXISTING HVAC CONTROL WIRING BY MECHANICAL CONTRACTOR.
11. REMOVE EXISTING DATA CABLING AND INSTALL NEW CAT 6 CABLING FROM HUB IN IT CLOSET THROUGH NEW 2" CONDUIT AND OVER EXPOSED TO SERVE EXISTING DATA PORT OR WIRELESS ACCESS POINT. INSTALL NEW EXTREME NETWORKS X440-G2-24P-10GE4 SWITCH. VERIFY LOCATION WITH OWNER.
12. INSTALL NEW 45A, 3 POLE BREAKER IN EXISTING NEARBY PANEL (SEE DWG. E101) AND EXTEND (3) #8, #10G, 1"C CIRCUIT TO DISCONNECT PROVIDED WITH UNIT. EXTEND NEARBY 120V POWER CIRCUIT TO FEED GFCI PROVIDED WITH UNIT.



1 ELECTRICAL POWER PLAN

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

0 4" 8" 16"

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ELECTRICAL POWER PLAN

DWG. NO.
E102