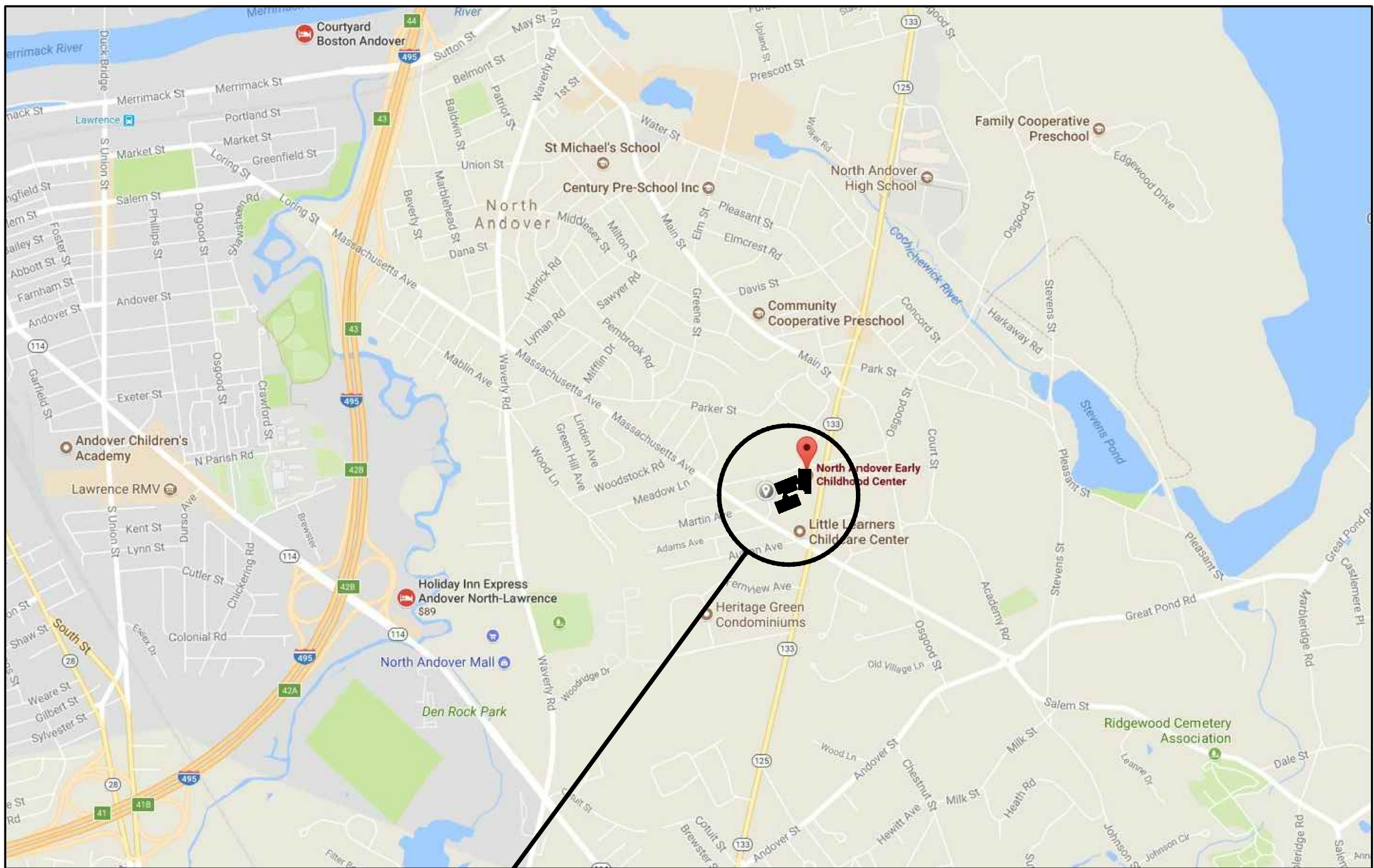


# KINDERGARTEN MODULAR CLASSROOM ADDITION TO THE EARLY CHILDHOOD CENTER

115 PHILLIPS BROOKS ROAD  
NORTH ANDOVER, MASSACHUSETTS 01845

RFP DOCUMENTS

## LOCATION PLAN



NORTH ANDOVER EARLY CHILDHOOD CENTER

## LIST OF DRAWINGS

DRAWING NO.	DESCRIPTION
<u>GENERAL</u>	
T1.00	TITLE SHEET
<u>CIVIL</u>	
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EX02	EXISTING CONDITIONS SURVEY PART 2
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C2	PROPOSED GRADING PLAN
<u>DEMOLITION</u>	
D1.01	FIRST FLOOR DEMOLITION PLAN
<u>ARCHITECTURAL</u>	
A0.01	LEGEND, NOTES & ABBREVIATIONS
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A1.11	FIRST FLOOR PLAN PART-A
A1.12A	FIRST FLOOR PLAN PART-B
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A1.20	ROOF PLAN
A1.31	ENLARGED PLANS AND DETAILS
A2.10	EXTERIOR ELEVATIONS
A4.10	BUILDING SECTIONS
A4.11	WALL SECTIONS
A4.12	WALL SECTIONS
A5.10	INTERIOR ELEVATIONS AND CASEWORK DETAILS
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A6.11	FIRST FLOOR RCP PART-A
A6.12	FIRST FLOOR RCP PART-B
A7.01	ROOM FINISH & DOOR SCHEDULE
<u>STRUCTURAL</u>	
S-0	GENERAL NOTES, TYPICAL DETAILS & SCHEDULES
S-1	FOUNDATION PLAN
S-2	SECTIONS

**KBA** ARCHITECTS  
KNIGHT, BAGGE AND ANDERSON, INC.

6 THIRTEENTH STREET  
CHARLESTOWN NAVY YARD  
CHARLESTOWN, MA 02129

Stamp:	
Drawing Name: <b>TITLE SHEET</b>	
Job No.: S123917	Drawing No. <b>T1.00</b>
Date: 11/01/2017	
RFP DOCUMENTS	



LEGEND:

CATCH BASIN	
CHAIN-LINK FENCE	
DRAIN LINE	
DRAIN MANHOLE	
EXISTING GRADES	
FIELD FLOOD LIGHT	
FIRE HYDRANT	
FLAG POLE	
GAS GATE	
GAS LINE	
GUY WIRE	
HANDICAP PARKING MARKING	
LIGHT POLE	
OVERHEAD WIRES	
SEWER LINE	
SEWER MANHOLE	
SHRUB	
SIGN	
TREE	
TREE LINE	
UTILITY POLE	
WATER GATE	
WATER SHUTOFF	

ABBREVIATIONS:

APPROX	APPROXIMATE
CB	CATCH BASIN
CCB	CAPE CODE BERM
CLF	CHAIN-LINK FENCE
CONC	CONCRETE
DMH	DRAIN MANHOLE
EL	ELEVATION
EXIST	EXISTING
INV	INVERT
LP	LIGHT POLE
MTL	METAL
SMH	SEWER MANHOLE
TYP	TYPICAL
VGC	VERTICAL GRANITE CURB

EXISTING CONDITIONS SURVEY

LOCATED IN  
**NORTH ANDOVER, MA.**

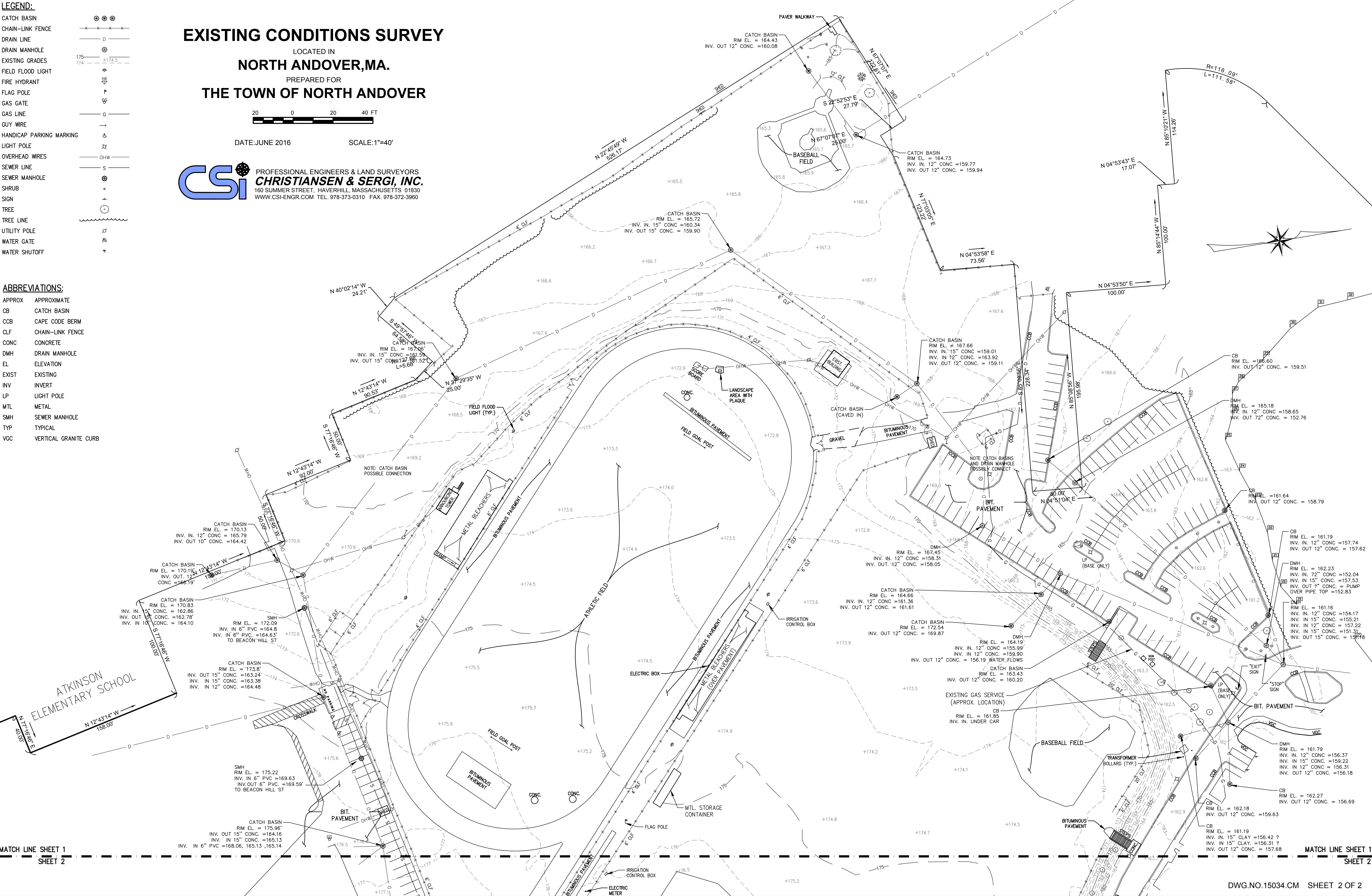
PREPARED FOR  
**THE TOWN OF NORTH ANDOVER**



DATE: JUNE 2016

SCALE: 1"=40'

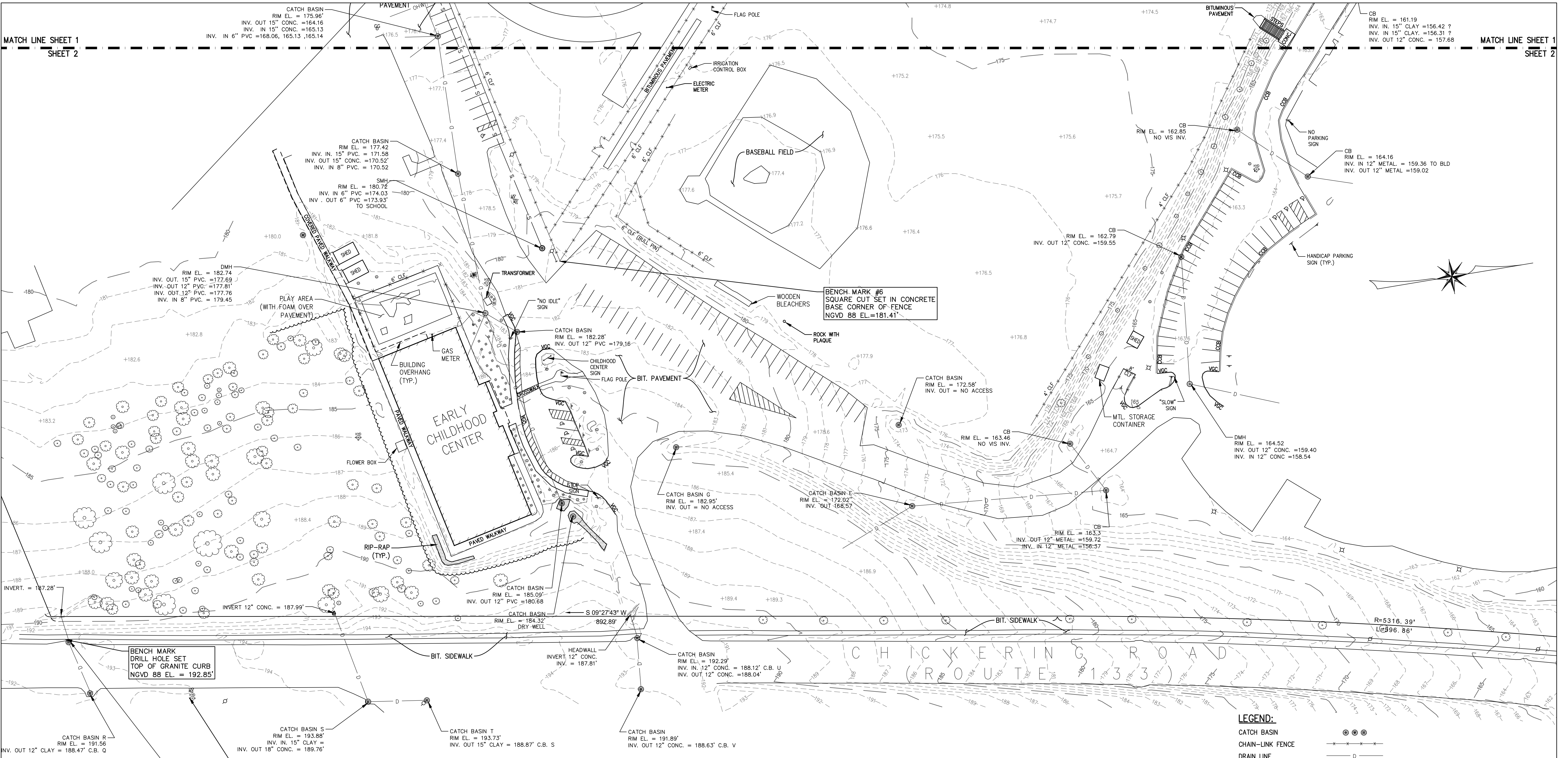
**CSI** PROFESSIONAL ENGINEERS & LAND SURVEYORS  
**CHRISTIENSEN & SERGI, INC.**  
160 SUMMER STREET, HAVERHILL, MASSACHUSETTS 01830  
WWW.CSI-ENGR.COM TEL. 978-373-0310 FAX. 978-372-3960



MATCH LINE SHEET 1  
SHEET 2

MATCH LINE SHEET 1  
SHEET 2





## EXISTING CONDITIONS SURVEY

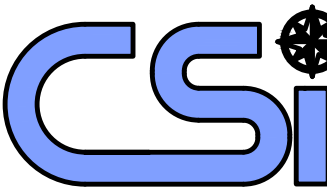
LOCATED IN  
**NORTH ANDOVER, MA.**

PREPARED FOR  
**THE TOWN OF NORTH ANDOVER**



DATE: JUNE 2016

SCALE: 1"=40'



PROFESSIONAL ENGINEERS & LAND SURVEYORS  
**CHRISTIENSEN & SERGI, INC.**  
160 SUMMER STREET, HAVERHILL, MASSACHUSETTS 01830  
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DWG. NO. 15034.CM SHEET 2 OF 2

### LEGEND:

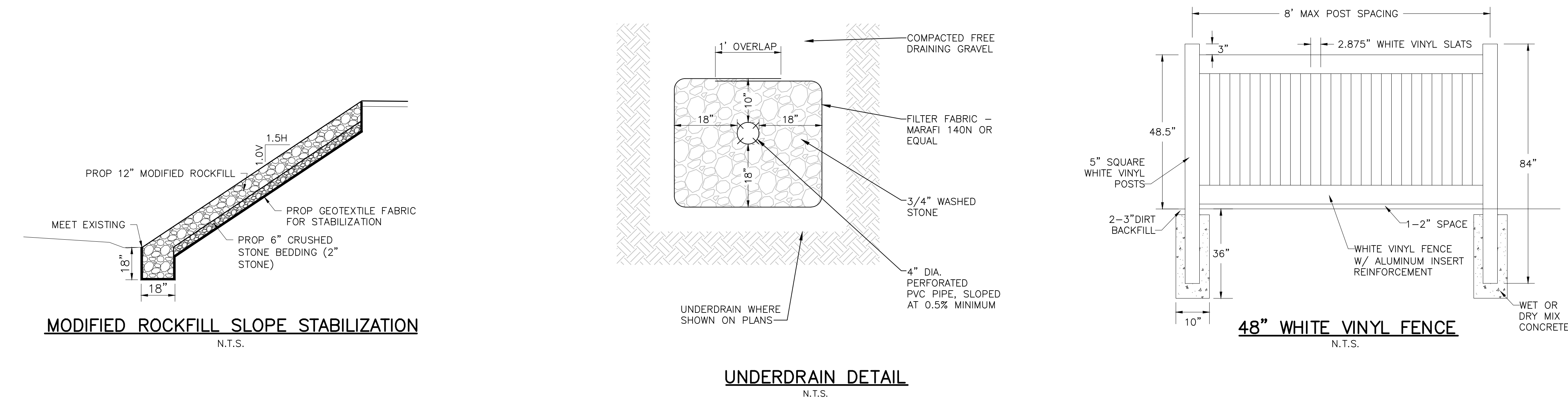
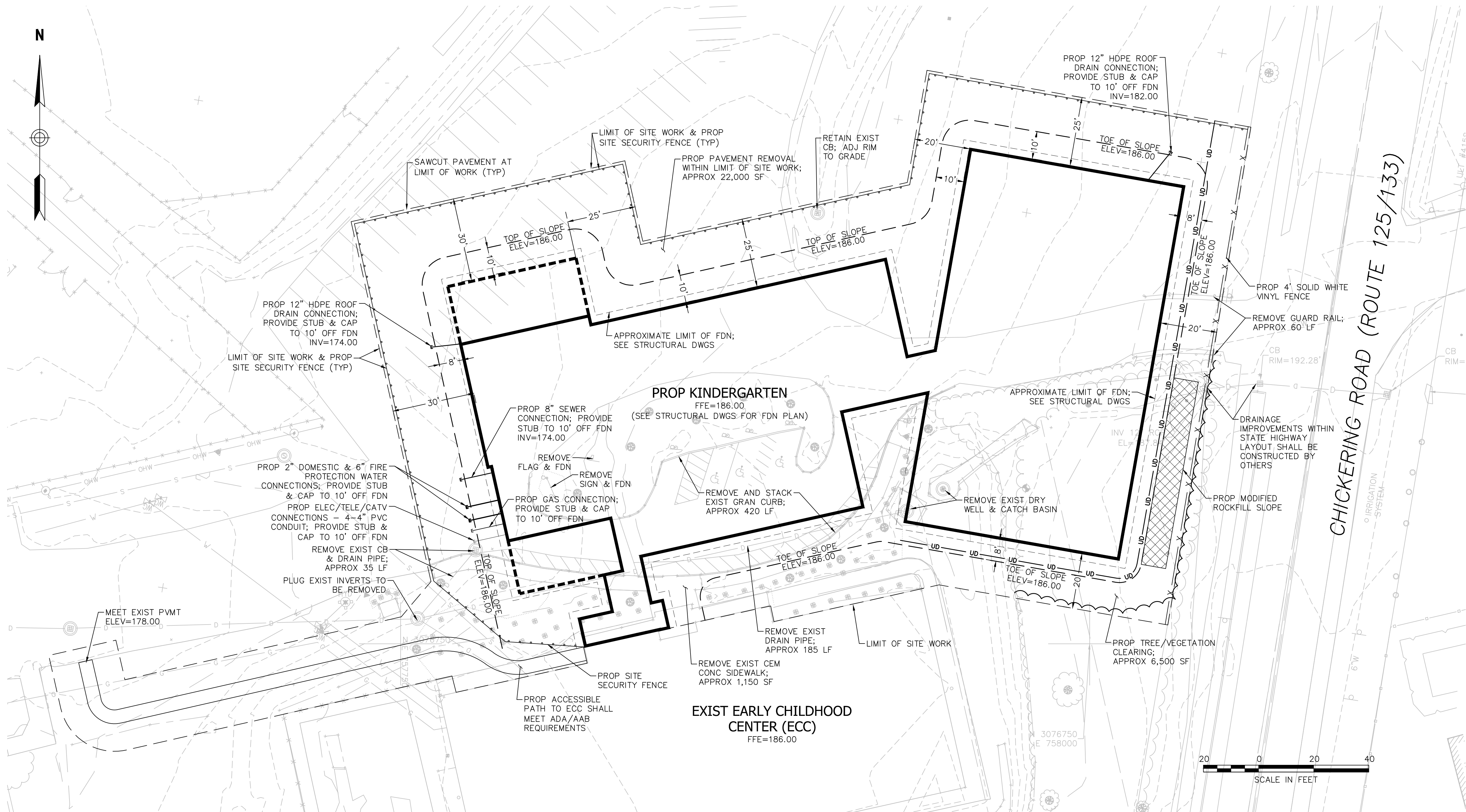
CATCH BASIN	⊙
CHAIN-LINK FENCE	— x — x — x —
DRAIN LINE	— D —
DRAIN MANHOLE	⊙
EXISTING GRADES	175 ——— +174.5 ———
FIELD FLOOD LIGHT	⊙
FIRE HYDRANT	⊙
FLAG POLE	⊙
GAS GATE	⊙
GAS LINE	— G —
GUY WIRE	—
HANDICAP PARKING MARKING	⊙
LIGHT POLE	⊙
OVERHEAD WIRES	— OHW —
SEWER LINE	— S —
SEWER MANHOLE	⊙
SHRUB	⊙
SIGN	⊙
TREE	⊙
TREE LINE	—
UTILITY POLE	⊙
WATER GATE	⊙
WATER SHUTOFF	⊙

### ABBREVIATIONS:

APPROX	APPROXIMATE
CB	CATCH BASIN
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EXIST	EXISTING
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LP	LIGHT POLE
MTL	METAL
SMH	SEWER MANHOLE
TYP	TYPICAL
VGC	VERTICAL GRANITE CURB

THE LOCATION OF ALL UNDERGROUND UTILITIES SHOWN HEREON ARE APPROXIMATE AND ARE BASED ON A COMBINATION OF FIELD LOCATIONS AND COMPILED INFORMATION FROM PLANS SUPPLIED BY VARIOUS UTILITY COMPANIES AND GOVERNMENT AGENCIES. IT IS ESSENTIAL THAT IN ACCORDANCE WITH M.G.L. CHAPTER 82 SECTION 40, INCLUDING AMENDMENTS, ALL CONTRACTORS SHOULD NOTIFY IN WRITING ALL UTILITY COMPANIES AND GOVERNMENT AGENCIES PRIOR TO ANY EXCAVATION WORK AND CALL DIG-SAFE AT 1-888-DIG-SAFE.





## GENERAL NOTES

- PROP UTILITY CONNECTIONS TO BUILDING ARE SHOWN APPROXIMATE. CUT/CAP LOCATIONS, FINAL ELEVATIONS, SIZING, AND DETAILS SHALL BE COORDINATED BY THE CONTRACTOR AND PRE-FAB/MODULAR BUILDING ENGINEERS.
- CONTRACTOR SHALL NOTIFY DIG-SAFE (1-888-344-7233) AND THE LOCAL MUNICIPAL WATER & SEWER DEPT. AT LEAST 72 HOURS BEFORE EXCAVATING.
- CONTRACTOR SHALL BE RESPONSIBLE FOR SITE SECURITY AND JOB SAFETY. CONSTRUCTION ACTIVITIES SHALL BE IN ACCORDANCE WITH OSHA STANDARDS AND LOCAL REQUIREMENTS. A 6-FOOT TEMPORARY CHAINLINK FENCE SHALL BE PROVIDED AROUND ALL CONSTRUCTION ACTIVITIES. CONTRACTOR SHALL LEAVE NO UNSECURED OPEN EXCAVATIONS.
- HANDICAP ACCESSIBLE ROUTES, PARKING SPACES, RAMPS, SIDEWALKS AND WALKWAYS SHALL BE CONSTRUCTED IN CONFORMANCE WITH THE FEDERAL AMERICANS WITH DISABILITIES ACT/ARCHITECTURAL ACCESS BOARD (AAB), AND WITH STATE AND LOCAL LAWS AND REGULATIONS (WHICHEVER ARE MORE STRINGENT).
- WITHIN THE LIMITS OF THE BUILDING FOOTPRINT, THE SITE CONTRACTOR SHALL PERFORM EARTHWORK OPERATIONS REQUIRED UP TO SUBGRADE ELEVATIONS. ALL EARTHWORK OPERATIONS (INCLUDING FOUNDATION CONSTRUCTION AND BACKFILL) SHALL MEET THE RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEER. PROJECT GEOTECHNICAL REPORT SHALL BE PROVIDED UNDER SEPARATE COVER.
- UPON AWARD OF CONTRACT, CONTRACTOR SHALL MAKE NECESSARY CONSTRUCTION NOTIFICATIONS AND APPLY FOR AND OBTAIN NECESSARY PERMITS, PAY FEES, AND POST BONDS ASSOCIATED WITH THE WORK INDICATED ON THE DRAWINGS, IN THE SPECIFICATIONS, AND IN THE CONTRACT DOCUMENTS. DO NOT CLOSE OR OBSTRUCT ROADWAYS, SIDEWALK, AND FIRE HYDRANTS, WITHOUT APPROPRIATE PERMITS.
- AREAS OUTSIDE THE LIMITS OF PROP WORK DISTURBED BY THE CONTRACTOR SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AT NO ADDITIONAL COST TO THE OWNER.
- IN THE EVENT THAT SUSPECTED CONTAMINATED SOIL, GROUNDWATER, AND OTHER MEDIA ARE ENCOUNTERED DURING EXCAVATION AND CONSTRUCTION ACTIVITIES BASED ON VISUAL, OLFACTORY, OR OTHER EVIDENCE, THE CONTRACTOR SHALL STOP WORK IN THE VICINITY OF THE SUSPECT MATERIAL TO AVOID FURTHER SPREADING OF THE MATERIAL, AND SHALL NOTIFY THE OWNER IMMEDIATELY SO THAT THE APPROPRIATE TESTING AND SUBSEQUENT ACTION CAN BE TAKEN.
- CONTRACTOR SHALL PREVENT DUST, SEDIMENT, AND DEBRIS FROM EXITING THE SITE AND SHALL BE RESPONSIBLE FOR CLEANUP, REPAIRS AND CORRECTIVE ACTION IF SUCH OCCURS.
- CONTRACTOR SHALL CONTROL STORMWATER RUNOFF DURING CONSTRUCTION TO PREVENT ADVERSE IMPACTS TO OFF SITE AREAS, AND SHALL BE RESPONSIBLE TO REPAIR RESULTING DAMAGES, IF ANY, AT NO COST TO THE OWNER.
- CONTRACTOR SHALL PREPARE AND MAINTAIN A STORMWATER POLLUTION PREVENTION PLAN (SWPPP) IN ACCORDANCE WITH THE US EPA CONSTRUCTION GENERAL PERMIT AND NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT REQUIREMENTS.
- EXISTING CONDITIONS PLAN PREPARED BY CHRISTIANSEN & SERGI, INC., HAVERHILL, MA, BY AN ON THE GROUND FIELD SURVEY PERFORMED IN JUNE 2016 AND SEPTEMBER 2017.
- CONTRACTOR TO FILE A NOTICE OF INTENT FOR COVERAGE UNDER THE CONSTRUCTION GENERAL PERMIT (CGP) AND PREPARE A STORMWATER POLLUTION PREVENTION PLAN (SWPPP) PRIOR TO START OF CONSTRUCTION.
- CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION AND MAINTENANCE OF SITE SECURITY FENCING AROUND THE ENTIRE PERIMETER OF THE WORK AREA. SITE SECURITY FENCING MAY NEED TO BE SHIFTED IN PHASES DURING CONSTRUCTION AND IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THE WORK AREA IS COMPLETELY SECURE.

## GRADING, DRAINAGE AND UTILITY NOTES

- THE LOCATIONS, SIZES, AND TYPES OF EXISTING UNDERGROUND UTILITIES ARE SHOWN AS AN APPROXIMATE REPRESENTATION ONLY. THE OWNER OR ITS REPRESENTATIVE(S) HAVE NOT INDEPENDENTLY VERIFIED THIS INFORMATION AS SHOWN ON THE PLANS. THE UTILITY INFORMATION SHOWN DOES NOT GUARANTEE THE ACTUAL EXISTENCE, SERVICEABILITY, OR OTHER DATA CONCERNING THE UTILITIES, NOR DOES IT GUARANTEE AGAINST THE POSSIBILITY THAT ADDITIONAL UTILITIES MAY BE PRESENT THAT ARE NOT SHOWN ON THE PLANS. PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION THE CONTRACTOR SHALL VERIFY AND DETERMINE THE EXACT LOCATION, SIZES, AND ELEVATION OF EXISTING UTILITIES.
- WHERE AN EXISTING UTILITY IS FOUND TO CONFLICT WITH THE PROP WORK, OR EXISTING CONDITIONS DIFFER FROM THOSE SHOWN SUCH THAT THE WORK CANNOT BE COMPLETED AS INTENDED, THE LOCATION, ELEVATION, AND SIZE OF THE UTILITY SHALL BE ACCURATELY DETERMINED WITHOUT DELAY BY THE CONTRACTOR, AND THE INFORMATION FURNISHED IN WRITING TO THE OWNER'S REPRESENTATIVE FOR THE RESOLUTION OF THE CONFLICT. FAILURE TO PROVIDE OR PERFORM THE ABOVE PRIOR TO PERFORMING ANY WORK SHALL NOT BE GROUNDS FOR EXTRA PAYMENTS TO THE CONTRACTOR.
- AT ALL LOCATIONS WHERE EXISTING CURBING OR PAVEMENT ABUTS NEW CONSTRUCTION, THE EDGE OF THE EXISTING CURB OR PAVEMENT SHALL BE SAW CUT TO A CLEAN, SMOOTH EDGE. BLEND NEW PAVEMENT, CURBS, AND EARTHWORK SMOOTHLY INTO EXISTING BY MATCHING LINES, GRADES, AND JOINTS.
- THE CONTRACTOR SHALL MAKE ALL ARRANGEMENTS FOR THE ALTERATION AND ADJUSTMENT OF GAS, ELECTRIC, TELEPHONE AND ANY OTHER PRIVATE UTILITIES BY THE UTILITY COMPANIES, AS REQUIRED.
- ALL UTILITY COVERS, GRATES, ETC. SHALL BE ADJUSTED TO BE FLUSH WITH THE PAVEMENT FINISH GRADE UNLESS OTHERWISE NOTED.
- INSTALL ALL UTILITIES (INCLUDING CONCRETE PADS) PER UTILITY COMPANY, DPW, AND STATE STANDARDS.
- EXISTING TREES AND SHRUBS OUTSIDE THE LIMITS OF GRADING SHALL BE REMOVED ONLY UPON PRIOR APPROVAL OF THE OWNER.
- ALL SANITARY SEWER PIPE SHALL BE SDR-35 PVC UNLESS OTHERWISE NOTED.
- WATER LINE SHALL BE CLASS 52 CEMENT LINED DUCTILE IRON.
- INSULATE SANITARY PIPES WHERE INVERT DEPTH IS LESS THAN FIVE (5) FEET BELOW FINISHED GRADE.
- CONTRACTOR SHALL PROTECT ALL UNDERGROUND DRAINAGE, SEWER AND UTILITY FACILITIES FROM EXCESSIVE VEHICULAR LOADS DURING CONSTRUCTION. ANY DAMAGE TO THESE FACILITIES RESULTING FROM CONSTRUCTION LOADS WILL BE RESTORED TO ORIGINAL CONDITION (AT NO ADDITIONAL COST TO THE OWNER) BY THE CONTRACTOR.
- ALL WATER AND SEWER UTILITY WORK SHALL CONFORM TO LOCAL DPW, WATER DIVISION SPECIFICATIONS, DETAILS, RULES AND REGULATIONS AND HAVE FIVE (5) FEET OF MINIMUM COVER. GAS, ELECTRIC, AND TELEPHONE LOCATIONS AND ROUTING ARE SUBJECT TO REVIEW AND APPROVAL BY THE APPROPRIATE UTILITY COMPANIES.
- FIRE ALARM CONNECTION LOCATIONS AND ROUTING ARE SUBJECT TO REVIEW AND APPROVAL BY THE FIRE DEPARTMENT OR STATE BUILDING INSPECTOR.
- THE CONTRACTOR SHALL REMOVE ALL EROSION CONTROL BARRIERS AFTER REVEGETATION OF DISTURBED AREAS AND AFTER APPROVAL BY THE LOCAL APPROVING AUTHORITY.
- EXCAVATION REQUIRED IN THE PROXIMITY OF EXISTING UTILITY LINES SHALL BE DONE BY HAND. CONTRACTOR SHALL REPAIR ANY DAMAGE TO EXISTING UTILITY LINES OR STRUCTURES INCURRED DURING CONSTRUCTION OPERATIONS AT NO COST TO THE OWNER.
- STOCKPILED TOPSOIL SHALL BE PLACED NEATLY IN AN AREA APPROVED BY THE OWNER/REPRESENTATIVE.
- THE CONTRACTOR SHALL SCHEDULE THEIR WORK TO ALLOW THE FINISHED SUBGRADE ELEVATIONS TO DRAIN PROPERLY WITHOUT PUDDLING. SPECIFICALLY, ALLOW WATER TO ESCAPE WHERE PROP CURB MAY RETAIN RUNOFF PRIOR TO APPLICATION OF THE FINISH SUBGRADE AND/OR SURFACE PAVING.
- UNLESS OTHERWISE INDICATED, ABANDONED EXISTING UTILITY LINES SHALL BE CAPPED AND ABANDONED IN PLACE UNLESS THEY CONFLICT WITH PROP IMPROVEMENTS, WHERE THEY SHALL THEN BE REMOVED. CAP REMAINING PORTIONS WHERE PARTIALLY REMOVED.



TEC, Inc.  
65 Glenn Street  
Lawrence, MA 01843  
(978) 794-1792  
www.TheEngineeringCorp.com

169 Ocean Boulevard  
Unit 101, PO Box 249  
Hampton, NH 03842  
(603) 601-8154

DESIGNED BY	PFE
DRAWN BY	PFE
CHECKED BY	KRD
DATE	11/1/2017
SCALE	1"=20'

PREPARED FOR

Town of North Andover  
120 Main Street  
North Andover, MA 01845

KBA Architects, Inc.  
6 Thirteenth Street  
Charlestown, MA 02129

## REVISIONS


ISSUED FOR

RFP Documents

PROJECT TITLE

Kindergarten Facility  
Site Design

PROJECT LOCATION

115 Phillips Brooks Rd  
N. Andover, MA 01845

DRAWING TITLE

Building Pad Prep &  
Site Work Plan

PROJECT NO.  
T0726  
TEC CAD FILE  
T0726.01\_Bldg Limits  
DRAWING NO.  
1  
SHEET 1 OF 2





TEC, Inc.

65 Glenn Street  
Lawrence, MA 01843  
(978) 794-1792  
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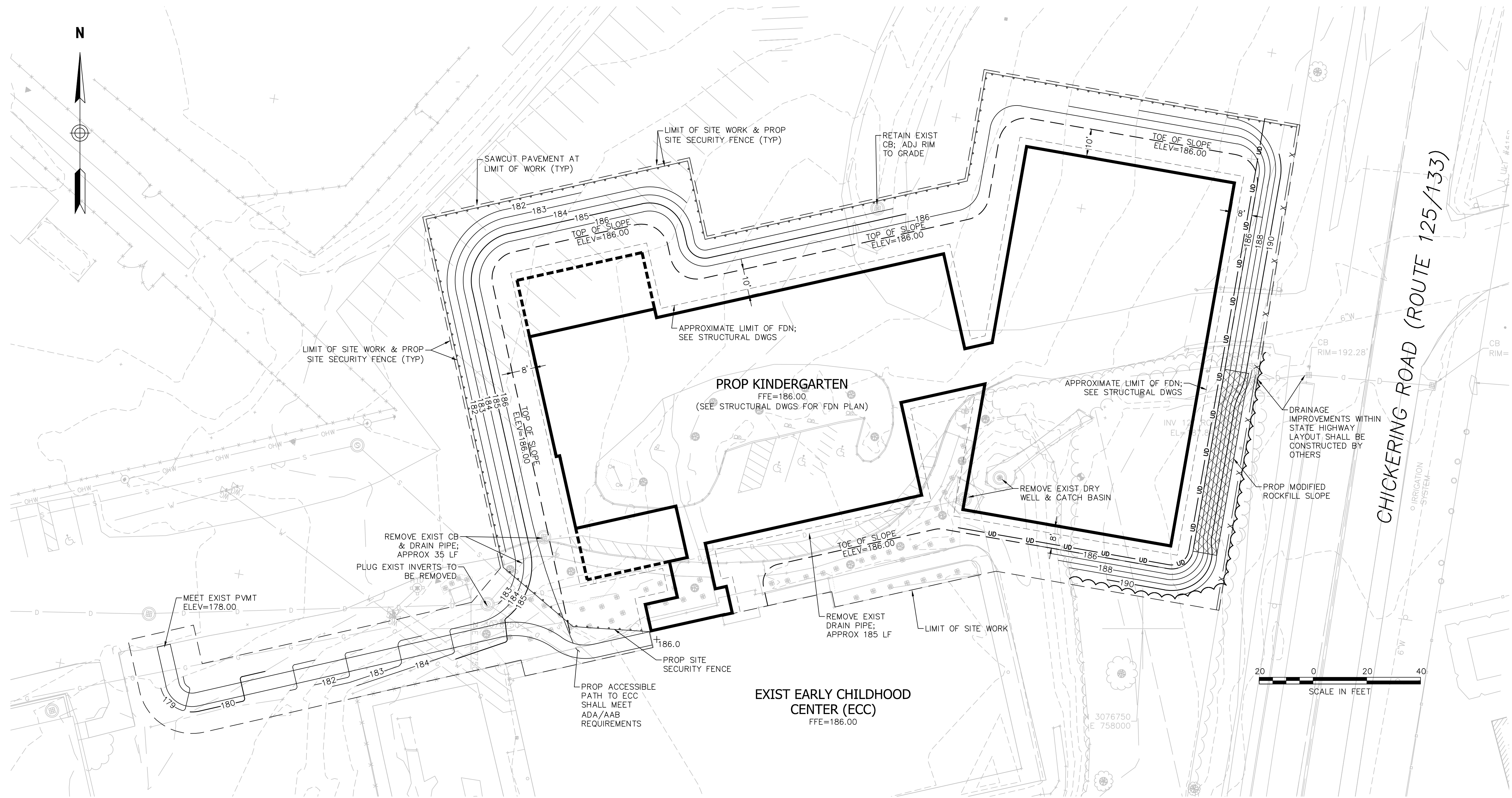
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REVISIONS

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PROJECT LOCATION

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N. Andover, MA 01845

DRAWING TITLE

Proposed Grading Plan

PROJECT NO.  
T0726

TEC CAD FILE  
T0726.01\_Bldg Limits  
DRAWING NO.

2

SHEET 2 OF 2

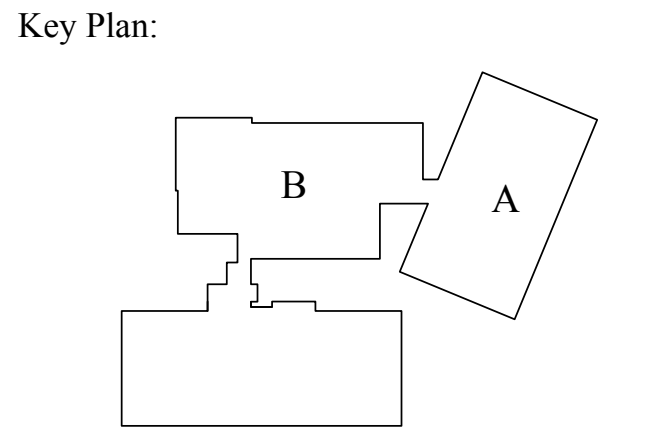
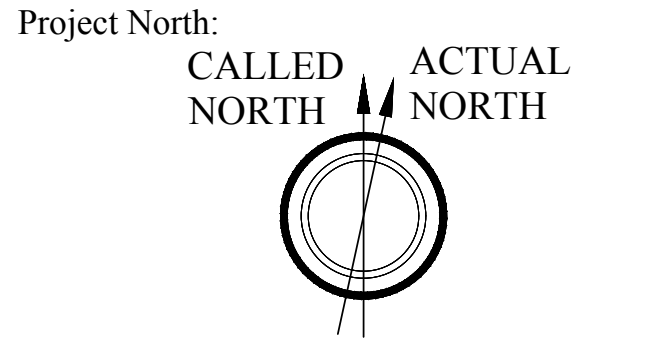


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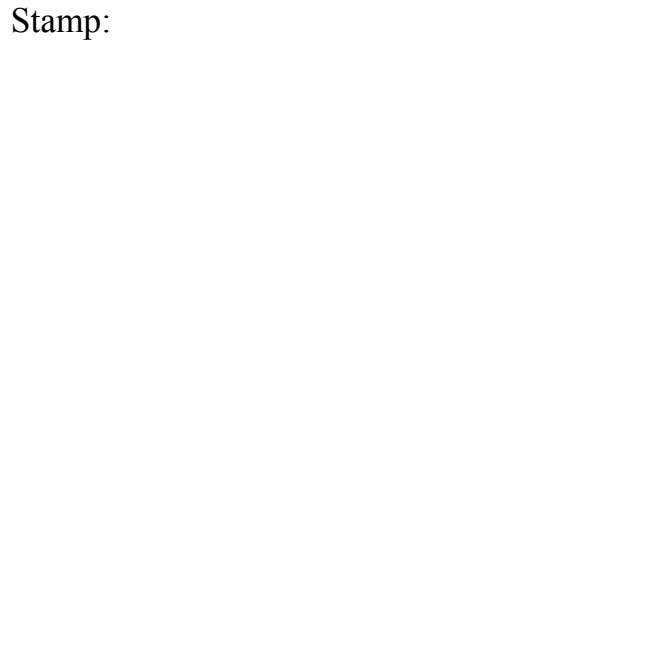
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KINDERGARTEN MODULAR CLASSROOM  
ADDITION TO THE NORTH ANDOVER  
EARLY CHILDHOOD CENTER

115 PHILIPS BROOK RD.  
NORTH ANDOVER, MA 01845



Drawing Name:

LEGENDS,  
NOTES &  
ABBREVIATIONS

Job No.: S123917	Drawing No. <b>A0.01</b>
Date: 11/01/2017	

RFP DOCUMENTS

ABBREVIATIONS:

@	-	AT
ACM	-	ASBESTOS CONTAINING MATERIAL
ACP	-	ACOUSTIC CEILING PANEL
ACT	-	ACOUSTIC CEILING TILE
AFF	-	ABOVE FINISH FLOOR
ALUM.	-	ALUMINUM
ABV.	-	ABOVE
BC	-	BOOK CASE
BL	-	BORROWED LIGHT
BO	-	BOTTOM OF
BR	-	BACKER ROD
BRD	-	BOARD
CEIL	-	CEILING
CH	-	CEILING HEIGHT
CG	-	CORNER GUARD
CJ	-	CONTROL JOINT
CL	-	CENTER LINE
CLOS	-	CLOSET
CMU	-	CONCRETE MASONRY UNITS
CONC.	-	CONCRETE
CONT.	-	CONTINUOUS
CPT	-	CARPET
CWG	-	CLEAR WIRE GLASS
DET	-	DETAIL
DF	-	DRINKING FOUNTAIN
DWG	-	DRAWING
ELEVEL	-	ELEVATION
EPDM	-	ETHYLENE PROPYLENE DIENE MONOMER
EQ.	-	EQUAL
EWD	-	EXISTING WOOD
EXIST	-	EXISTING
FB	-	FIRE BLANKET
FE	-	FIRE EXTINGUISHER
FEC	-	FIRE EXTINGUISHER CABINET
FLR/FL	-	FLOOR
FOC	-	FACE OF CONCRETE
FTR	-	FIN TUBE RADIATION
GA	-	GAUGE
GYP	-	GYPSUM
GWB	-	GYPSUM PARTITION TYPEBOARD
HC	-	HANDICAPPED
HCAP	-	HANDICAP
HDWR	-	HARDWARE
H.I.	-	HIGH IMPACT
INSUL	-	INSULATION
JT	-	JOINT
JAN	-	JANITOR
LAM	-	LAMINATE
LAV	-	LAVATORY
L.G.M.F.	-	LIGHT GAUGE METAL FRAMING
LSG	-	LAMINATED SAFETY GLASS
MATL	-	MATERIAL
MB	-	MARKER BOARD
MIN	-	MINIMUM
NIC	-	NOT IN CONTRACT
NO	-	NUMBER
OC	-	ON CENTER
OH	-	OPPOSITE HAND
OPP.	-	OPPOSITE
P-LAM	-	PLASTIC LAMINATE
PLYWD	-	PLYWOOD
PT	-	PRESSURE TREATED
PTD	-	PAINTED
QT	-	QUARRY TILE
RB	-	RUBBER WALL BASE
RCP	-	REFLECTED CEILING PLAN
REQ'D	-	REQUIRED
RS	-	REDUCER STRIP
SB	-	SMART BOARD
SR	-	SEAMLESS RESIN
STOR	-	STORAGE
STL	-	STEEL
TB	-	TACK BOARD
TBR	-	TO BE REMOVED
TBD	-	TO BE DETERMINED
THK	-	THICK
T.O.	-	TOP OF
TS	-	TRANSITION STRIP
TYP.	-	TYPICAL
UV	-	UNIT VENTILATOR
VCT	-	VINYL COMPOSITION TILE
V.I.F.	-	VERIFY IN FIELD
WC	-	WATER CLOSET
W/	-	WITH
WD	-	WOOD

SYMBOLS:

ROOM NAME ###	ROOM NAME AND NUMBER
	SECTION DETAIL
	DETAIL
	PLAN KEY / NOTE TAG
	DOOR TAG
	WINDOW TAG
	NEW PARTITION TAG
	FIXTURE/ACCESSORY TAG
	INTERIOR ELEVATIONS
	DATUM ELEVATION MARKER
	SINGLE CAT 6 NETWORK DROP. PROVIDE OUTLET (TYP.)
	CAT 6 NETWORK DROPS, #DENOTES QUANTITY. PROVIDE OUTLET BOX , 3/4" CONDUIT & PULL STRING TO ABOVE CEILING. OWNER WILL INSTALL CABLE & OUTLETS
	2 CAT NETWORK DROPS IN CEILING PROVIDE OUTLET (TYP.)
	DUPLEX ELEC OUTLET NEAR CEILING ON CENTER OF BOARD

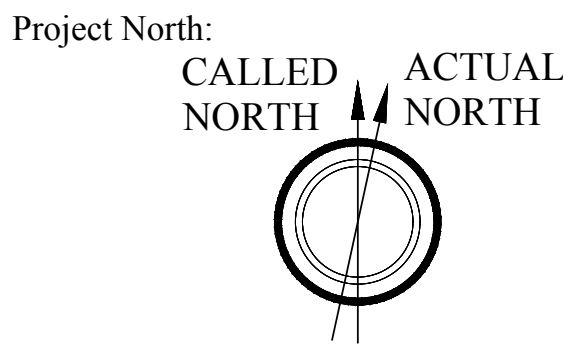


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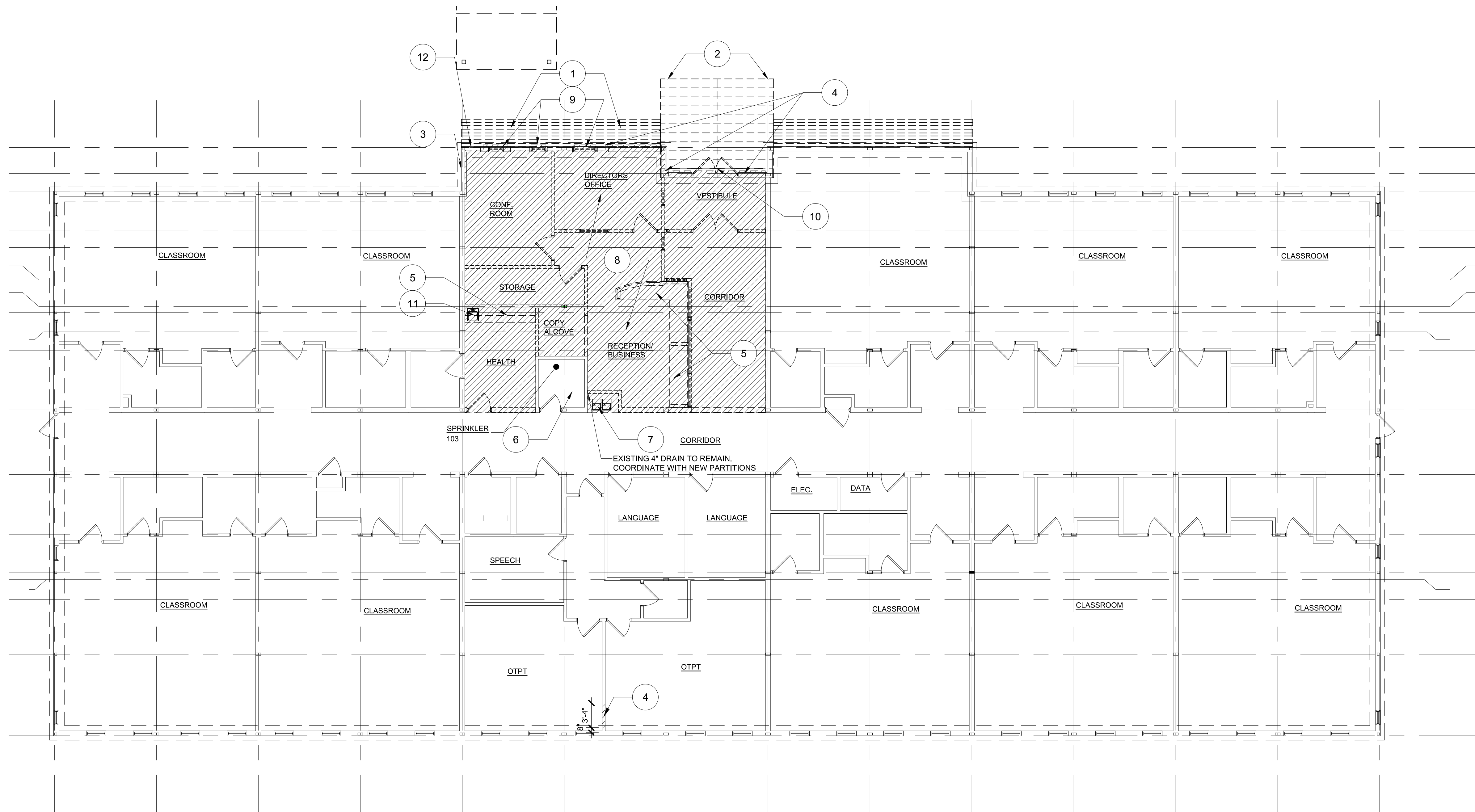
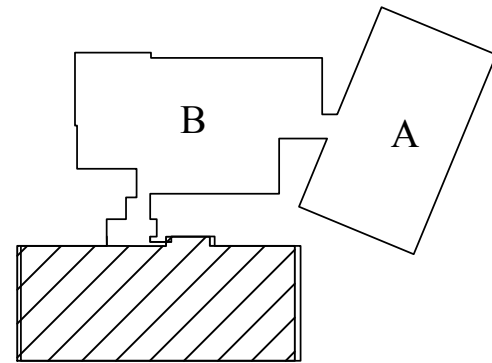
Drawn By: ERL

Checked By: MLW

REV	DATE	DESCRIPTION



Key Plan:



NOTE:  
THE AWARDING AUTHORITY WILL BE PERFORMING SOME LIMITED INTERIOR RENOVATION WORK WHILE THE MODULAR CONTRACTOR IS WORKING. THE SCOPE OF DEMOLITION NOTES DEFINE THOSE THAT ARE PART OF THE SCOPE FOR THE MODULAR CONTRACTOR.

- DEMOLITION KEY NOTES: (NIC)
1. DEMOLISH EXISTING TRELLIS/CANOPY/COLUMNS
  2. DEMOLISH EXISTING ENTRANCE CANOPY COLUMNS
  3. MAKE OPENING IN EXISTING EXTERIOR WALL TO ALLOW INSTALLATION FOR INSTALLATION OF A NEW TEMPORARY DOOR
  4. IN THE CRAWL SPACE CORE (2) 8" DIAMETER AND (2) 4" HOLES IN THE EXISTING FOUNDATION
  5. DEMO EXISTING CASEWORK
  6. SPRINKLER ROOM TO REMAIN FULLY INTACT.
  7. REMOVE EXISTING WATER FOUNTAINS, STORE FOR FUTURE INSTALLATION. RECONFIGURE WATER, DRAIN AND VENT FOR NEW WATER FOUNTAIN LOCATION.
  8. DEMO EXISTING CEILINGS, WALL BASE AND FLOORING.
  9. DEMO EXISTING WINDOW AND ACCESSORIES: TYP.
  10. DEMO EXISTING EXTERIOR WALL, WINDOW AND DOOR SYSTEMS AND ACCESSORIES.
  11. DEMO EXISTING SINK, CUT AND CAP WATER AND DRAIN BELOW SLAB AND PATCH EXISTING CONCRETE SLAB, CUT AND CAP VENT ABOVE GELING.
  12. REMOVE CLADDING OF EXISTING EXTERIOR WALL DOWN TO INSULATION. STUDS AND INSULATION TO REMAIN.

- GENERAL NOTES: (NIC)
- A. SAVE AND STORE ALL CEILING MOUNTED LIGHTING FOR FUTURE USE. COORDINATE WITH NEW PARTITION LAYOUT.
  - B. EXISTING SPRINKLER SYSTEM TO REMAIN. COORDINATE LOCATION OF HEADS WITH NEW PARTITION LAYOUT.
  - C. EXISTING HVAC SYSTEM TO REMAIN. COORDINATE NEW DUCTWORK AND DIFFUSERS WITH NEW PARTITION LAYOUT.
  - D. EXISTING ELECTRICAL AND TEL/DATA SYSTEMS TO REMAIN. COORDINATE LOCATION FOR NEW OUTLETS WITH NEW PARTITION LAYOUT.
  - E. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL CONDITIONS AND MATERIALS.
  - F. PATCH ALL WALLS TO MATCH WHERE DEMOLITION HAS OCCURRED.
  - G. MODULAR MANUFACTURER SHALL BE RESPONSIBLE FOR DEMOLITION AT THE EXISTING EXTERIOR WALL/NEW MODULAR LOCATION.

FIRST FLOOR DEMO PLAN

0 4' 8' 16'

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

KINDERGARTEN MODULAR CLASSROOM  
ADDITION TO THE NORTH ANDOVER  
EARLY CHILDHOOD CENTER

115 PHILIPS BROOK RD.  
NORTH ANDOVER, MA 01845

Stamp:

Drawing Name:

FIRST FLOOR  
DEMOLITION  
PLAN

Job No.:

S123917

Date:

11/01/2017

Drawing No.

D1.01

RFP DOCUMENTS

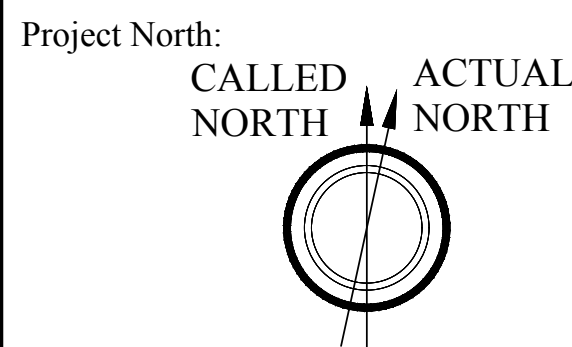


Designed By: DPB

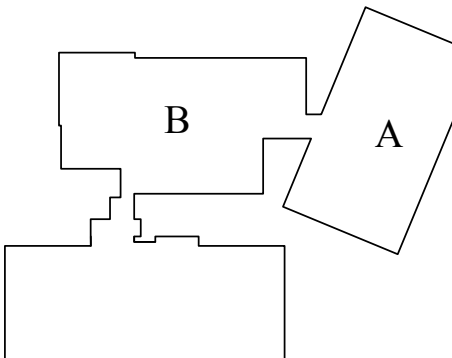
Drawn By: ERL

Checked By: MLW

REV	DATE	DESCRIPTION



Key Plan:



KINDERGARTEN MODULAR CLASSROOM  
ADDITION TO THE NORTH ANDOVER  
EARLY CHILDHOOD CENTER

115 PHILIPS BROOK RD.  
NORTH ANDOVER, MA 01845

Stamp:

Drawing Name:

FIRST  
FLOOR KEY PLAN

Job No.:

S123917

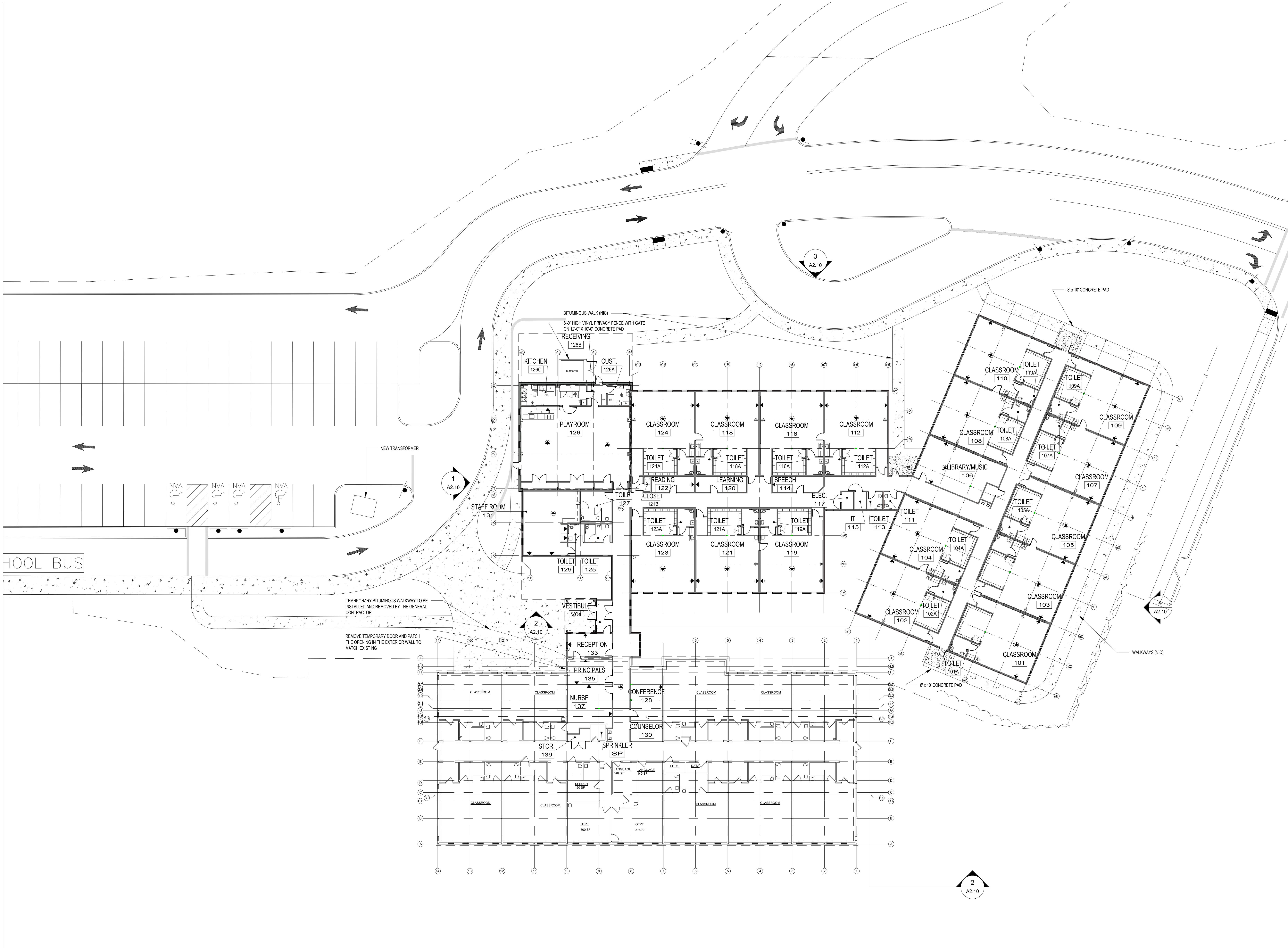
Date:

11/01/2017

Drawing No.

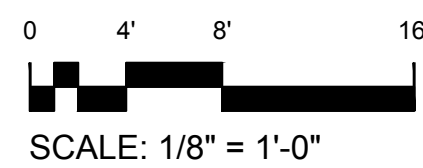
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RFP DOCUMENTS



0 8' 16' 32'  
SCALE: 1/16" = 1'-0"



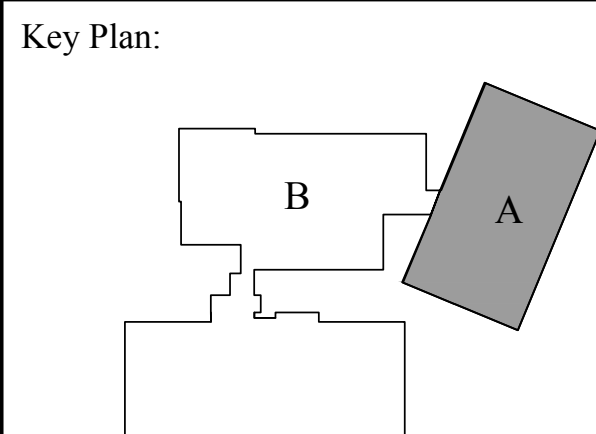
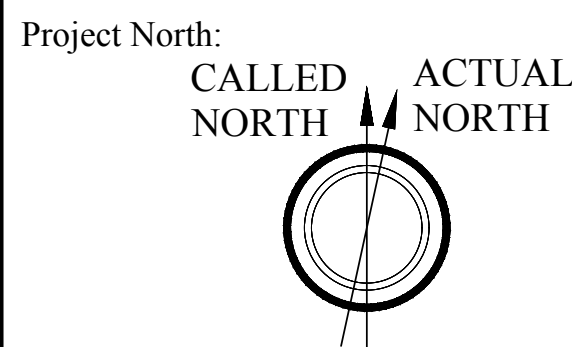


Designed By: DPB

Drawn By: ERL

Checked By: MLW

REV	DATE	DESCRIPTION



KINDERGARTEN MODULAR CLASSROOM  
ADDITION TO THE NORTH ANDOVER  
EARLY CHILDHOOD CENTER

115 PHILIPS BROOK RD.  
NORTH ANDOVER, MA 01845

Stamp:

Drawing Name:

FIRST  
FLOOR PLAN  
PART-A

Job No.:

S123917

Date:

11/01/2017

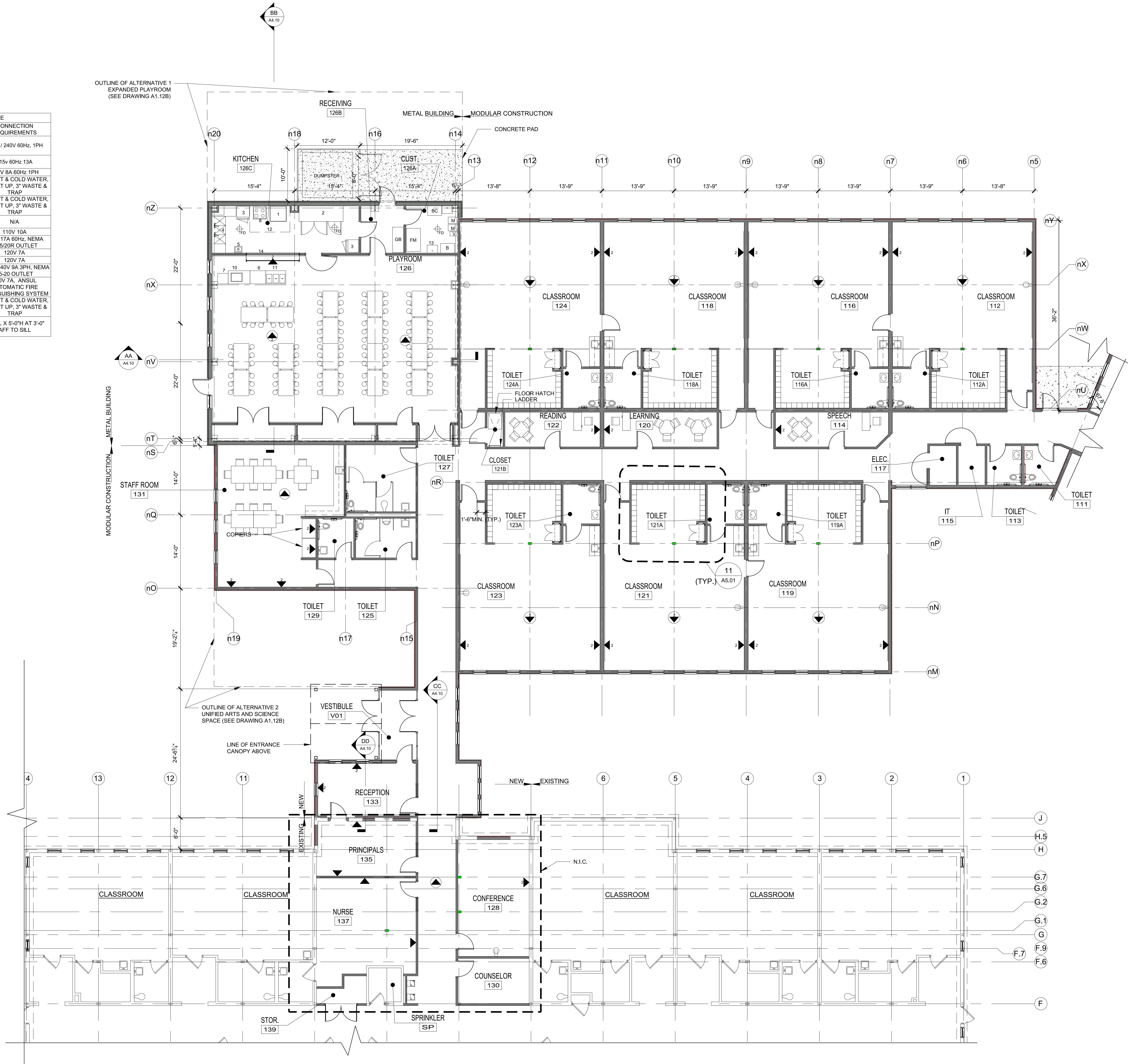
Drawing No.

A1.11

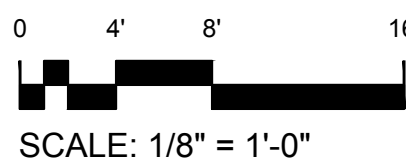
RFP DOCUMENTS



KITCHEN EQUIPMENT SCHEDULE		
ITEM #	DESCRIPTION	CONNECTION REQUIREMENTS
1	DOUBLE DECK CONVECTION OVEN	208V / 240V 60Hz 1PH
2	3-DOOR REACH IN REFRIGERATOR	115v 60Hz 13A
3	WARMING CABINET	208V 8A 60Hz 1PH
4	3 BAY STAINLESS STEEL SINK	1/2" HOT & COLD WATER, 2" VENT UP, 3" WASTE & TRAP
5	STAINLESS STEEL HAND SINK	1/2" HOT & COLD WATER, 2" VENT UP, 3" WASTE & TRAP
6	STAINLESS STEEL PREP TABLES	N/A
7	CASHIER'S CART	110V 10A
8	MICROWAVE OVEN	208V 17A 60Hz, NEMA 6-15/20R OUTLET
9	4 BURNER STOVE	120V 7A
10	MILK COOLER	120V 7A
11	MOBILE SERVING UNIT	208V / 240V 9A 3PH, NEMA 15-20 OUTLET
12	EXHAUST HOOD	120V 7A, ANSUL AUTOMATIC FIRE EXTINGUISHING SYSTEM
13	CUSTODIAN'S SINK	1/2" HOT & COLD WATER, 2" VENT UP, 3" WASTE & TRAP
14	STAINLESS STEEL OVERHEAD DOOR AND COUNTER	10'-0" L X 5'-0" H AT 3'-0" AFF TO SILL



FIRST FLOOR PLAN - PART B

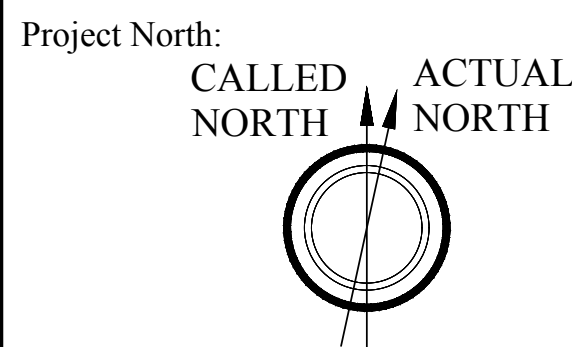


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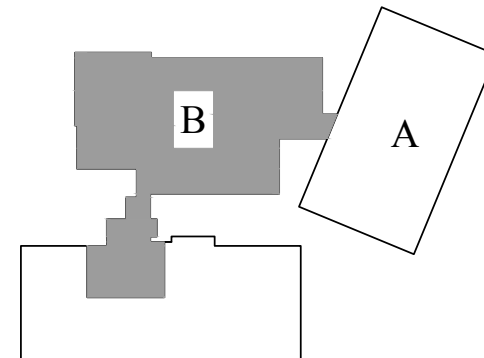
Drawn By: ERL

Checked By: MLW

REV	DATE	DESCRIPTION



Key Plan:



KINDERGARTEN MODULAR CLASSROOM  
ADDITION TO THE NORTH ANDOVER  
EARLY CHILDHOOD CENTER

115 PHILIPS BROOK RD.  
NORTH ANDOVER, MA 01845

Stamp:

Drawing Name:

FIRST  
FLOOR PLAN  
PART B

Job No.:

S123917

Date:

11/01/2017

Drawing No.

A1.12-A

RFP DOCUMENTS

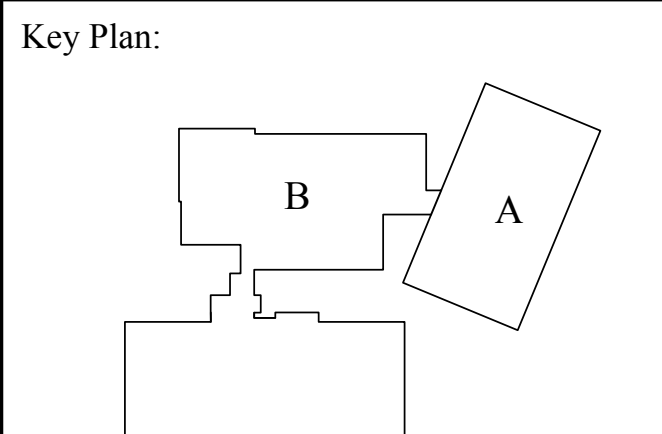
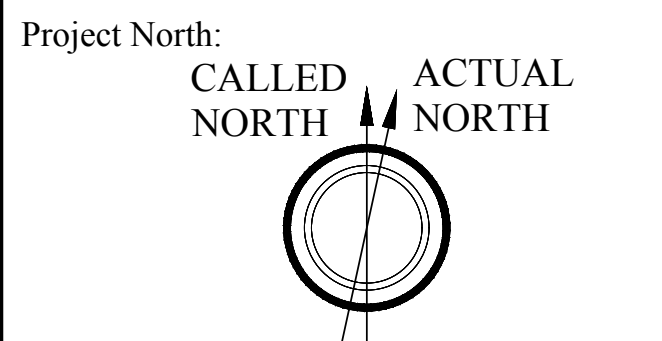


Designed By: DPB

Drawn By: ERL

Checked By: MLW

REV	DATE	DESCRIPTION



KINDERGARTEN MODULAR CLASSROOM  
ADDITION TO THE NORTH ANDOVER  
EARLY CHILDHOOD CENTER

115 PHILIPS BROOK RD.  
NORTH ANDOVER, MA 01845

Stamp:

Drawing Name:  
**FIRST  
FLOOR PLAN  
PART-B  
ALTERNATES**

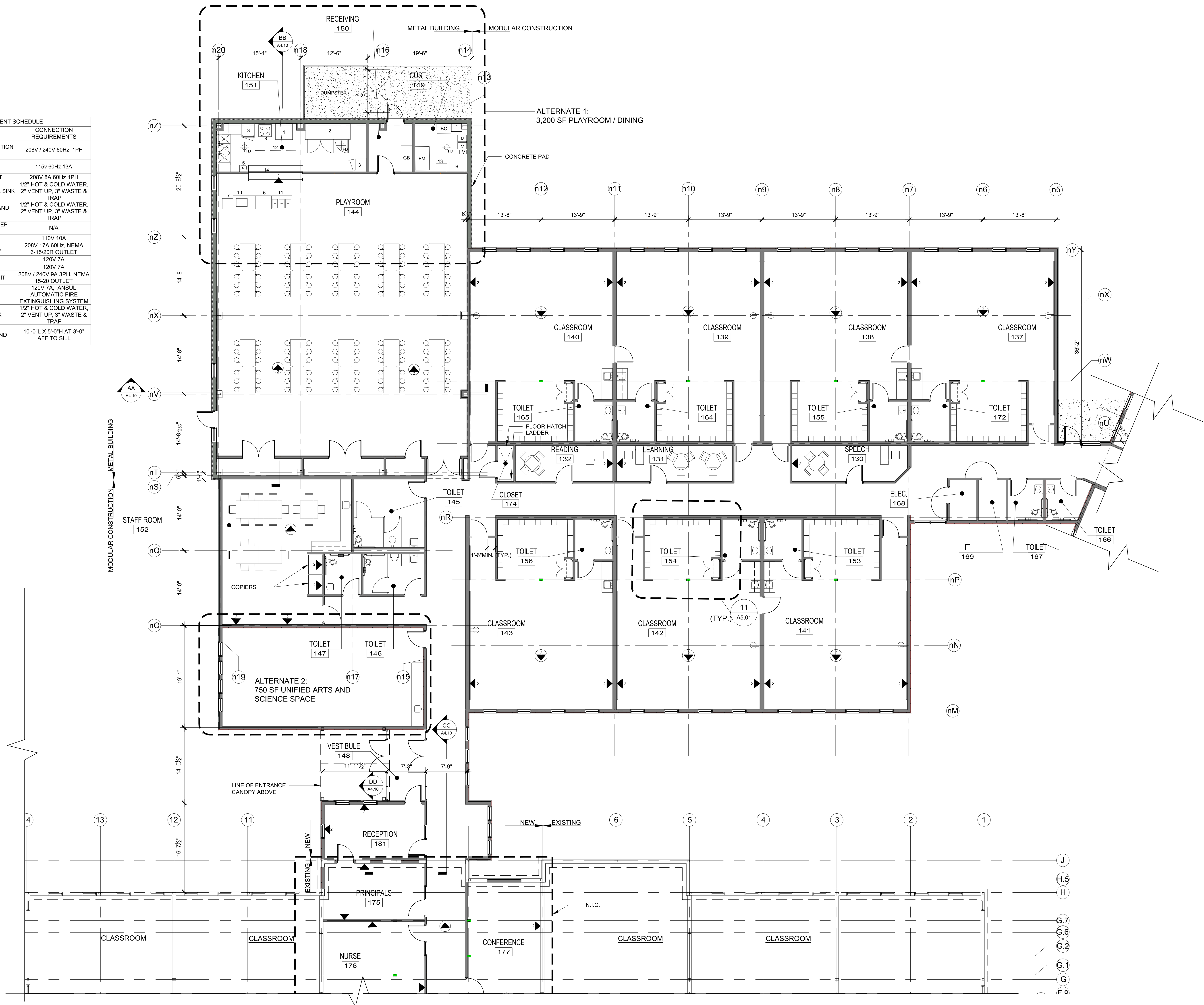
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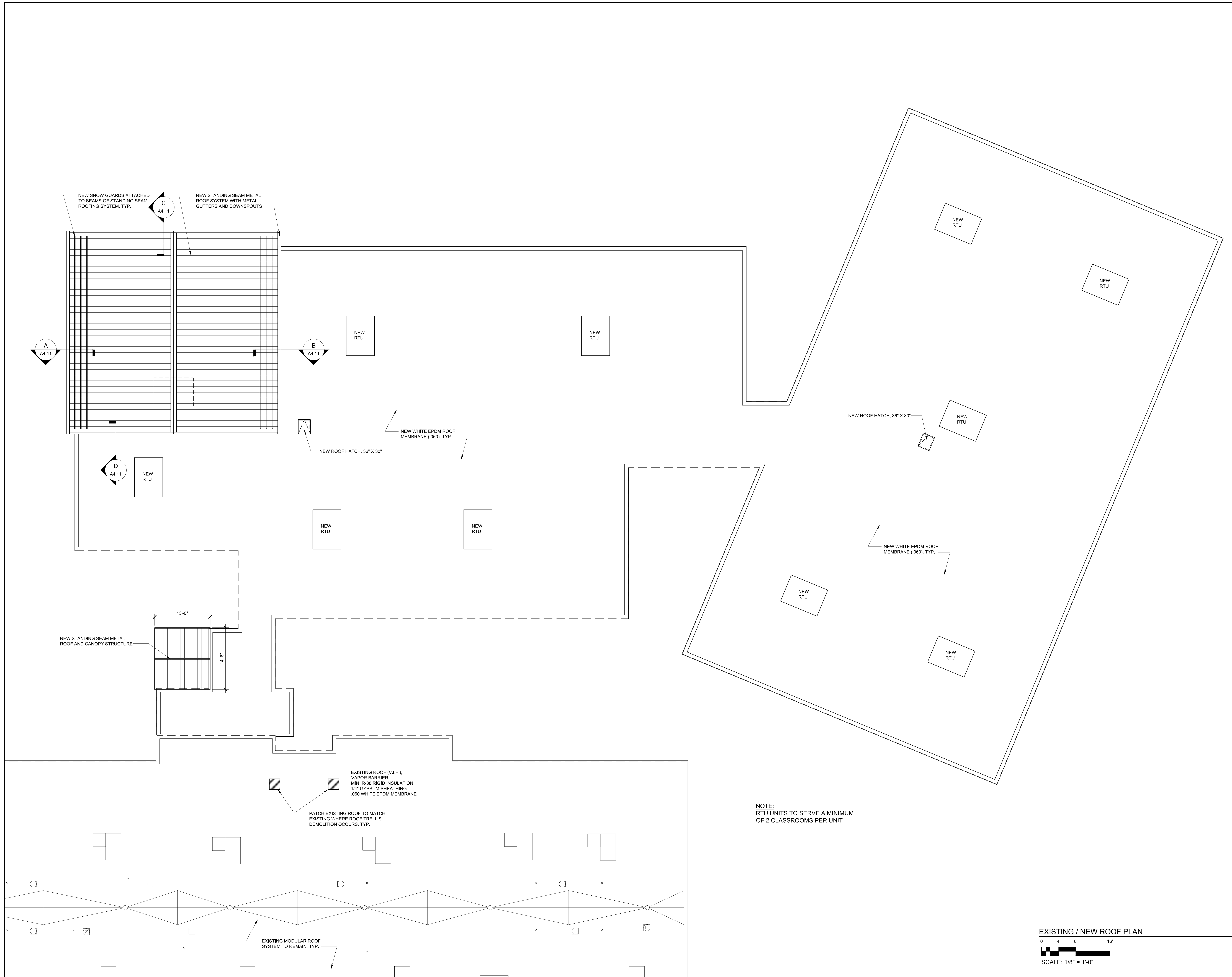
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RFP DOCUMENTS

KITCHEN EQUIPMENT SCHEDULE		
ITEM #	DESCRIPTION	CONNECTION REQUIREMENTS
1	DOUBLE DECK CONVECTION OVEN	208V / 240V 60Hz, 1PH
2	3-DOOR REACH IN REFRIGERATOR	115v 60Hz 13A
3	WARMING CABINET	208V 8A 60Hz 1PH
4	3 BAY STAINLESS STEEL SINK	1/2" HOT & COLD WATER, 2" VENT UP, 3" WASTE & TRAP
5	STAINLESS STEEL HAND SINK	1/2" HOT & COLD WATER, 2" VENT UP, 3" WASTE & TRAP
6	STAINLESS STEEL PREP TABLES	N/A
7	CASHIER'S CART	110V 10A
8	MICROWAVE OVEN	208V 17A 60Hz, NEMA 6-15/20R OUTLET
9	4 BURNER STOVE	120V 7A
10	MILK COOLER	120V 7A
11	MOBILE SERVING UNIT	208V / 240V 9A 3PH, NEMA 15-20 OUTLET
12	EXHAUST HOOD	120V 7A, ANSUL AUTOMATIC FIRE EXTINGUISHING SYSTEM
13	CUSTODIAN'S SINK	1/2" HOT & COLD WATER, 2" VENT UP, 3" WASTE & TRAP
14	STAINLESS STEEL OVERHEAD DOOR AND COUNTER	10'-0" L X 5'-0" H AT 3'-0" AFF TO SILL





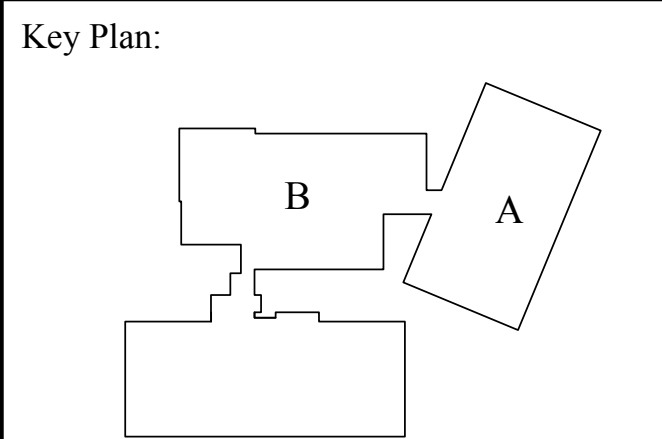
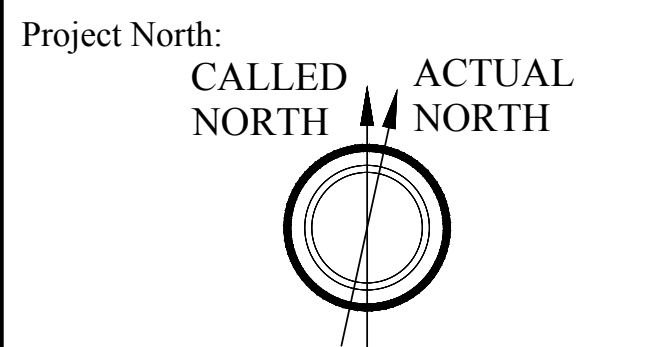


Designed By: DPB

Drawn By: DLH

Checked By: MLW

REV	DATE	DESCRIPTION

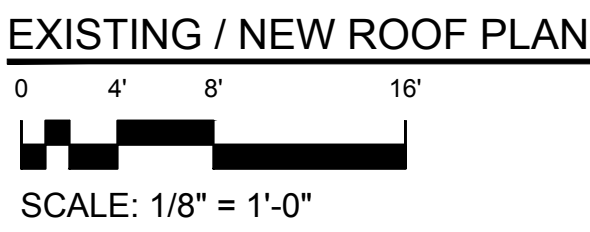


KINDERGARTEN MODULAR CLASSROOM  
ADDITION TO THE NORTH ANDOVER  
EARLY CHILDHOOD CENTER  
115 PHILIPS BROOK RD.  
NORTH ANDOVER, MA 01845

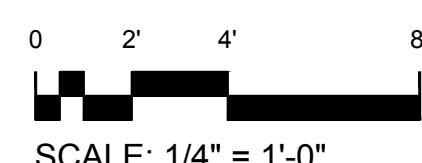
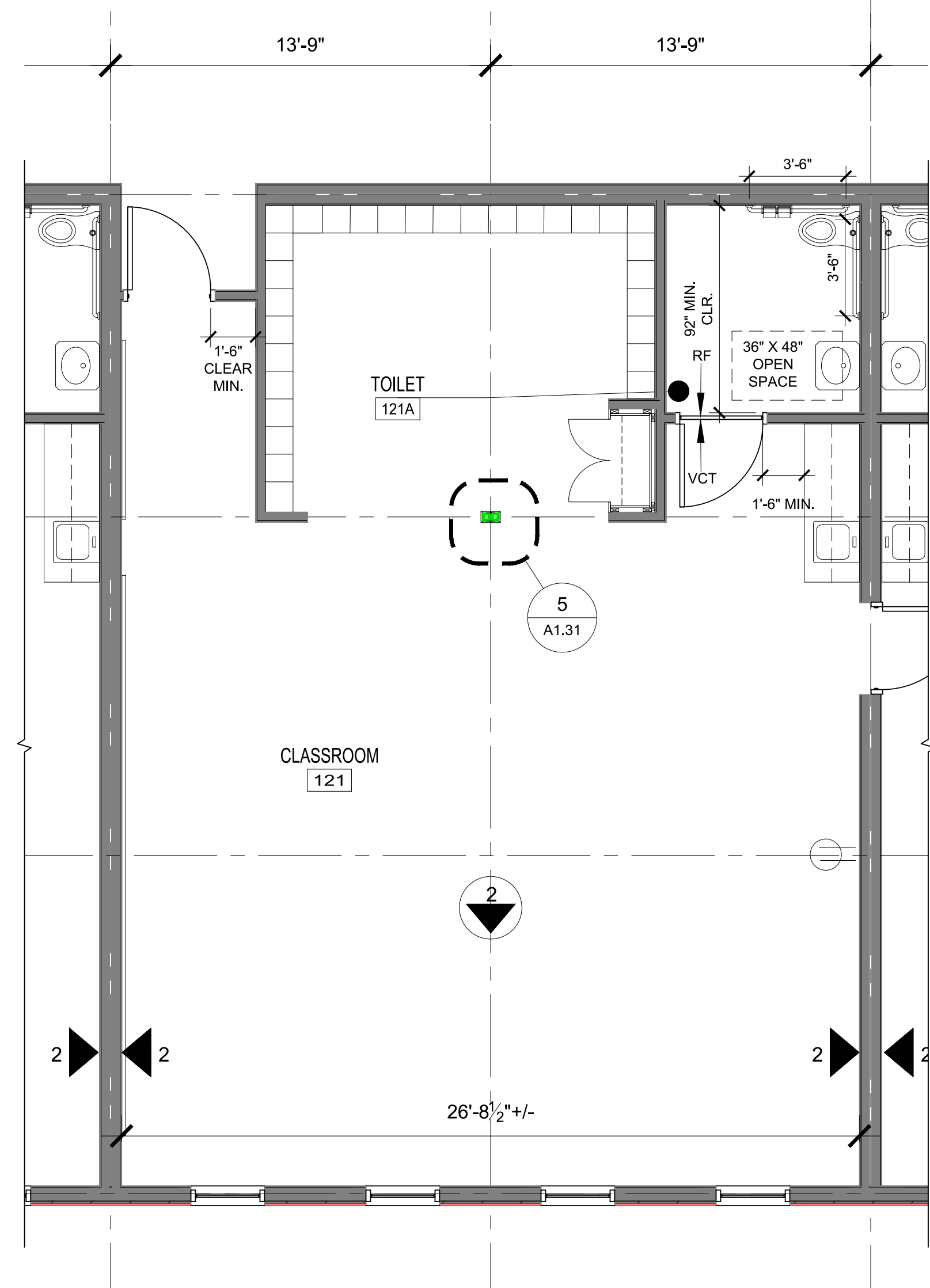
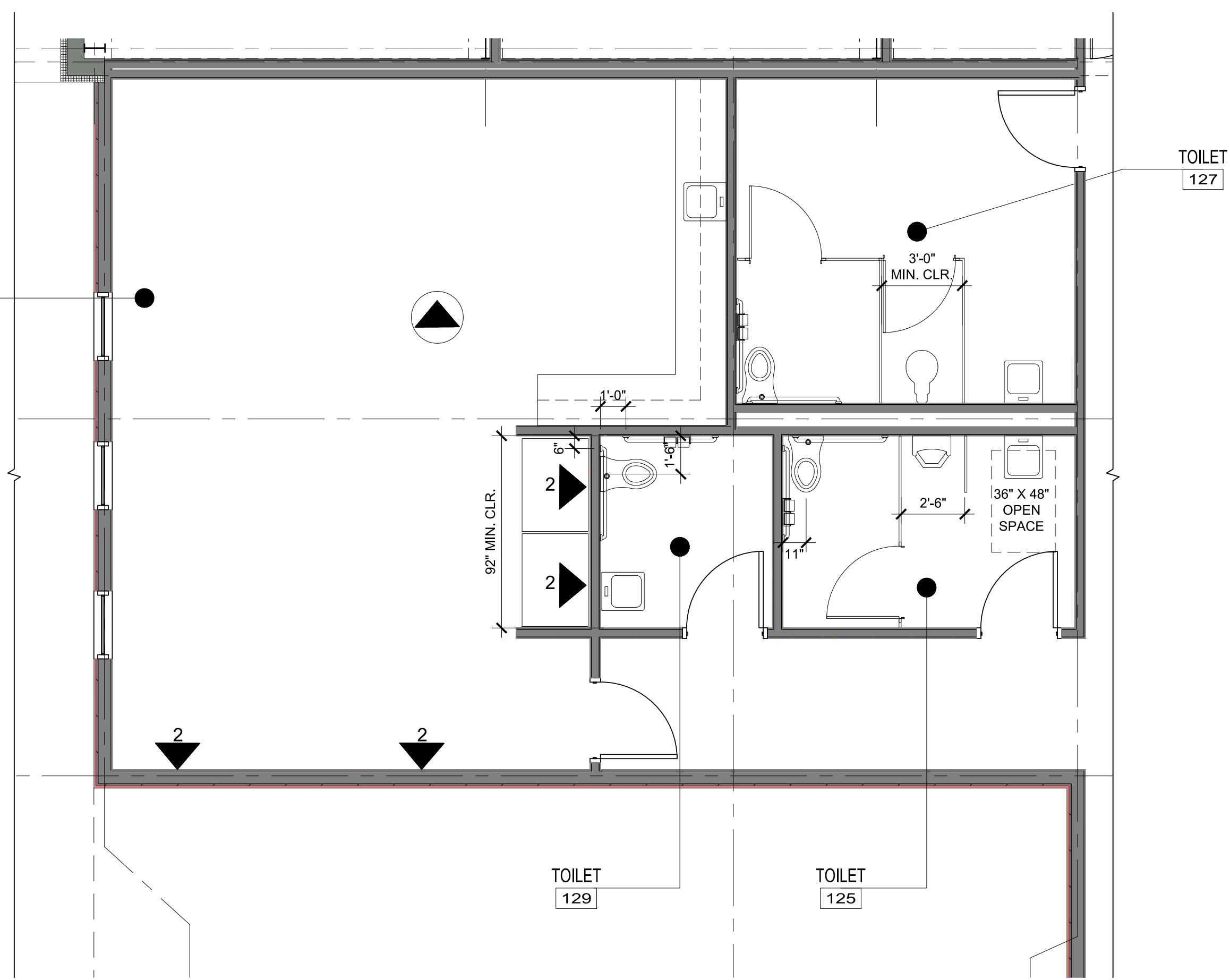
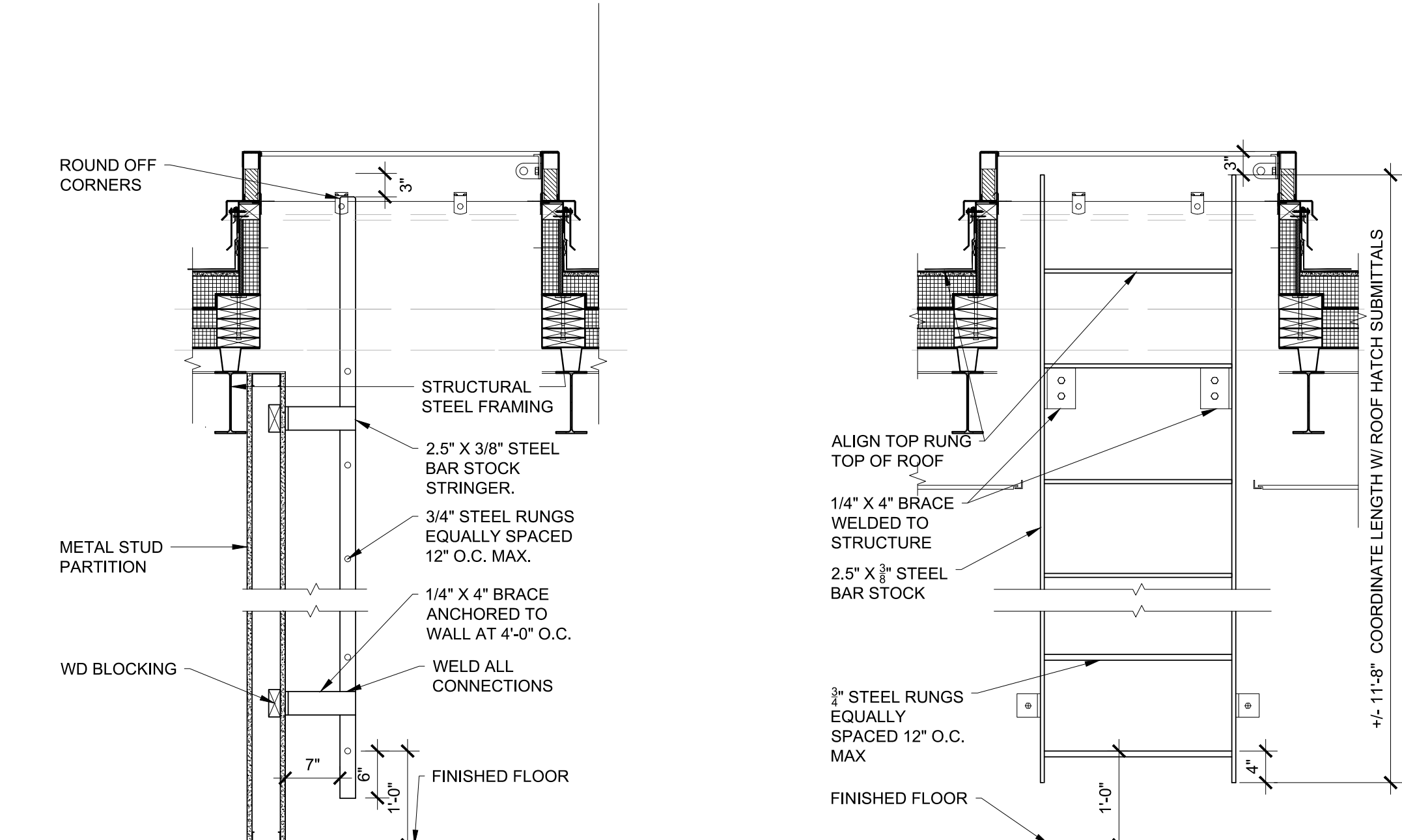
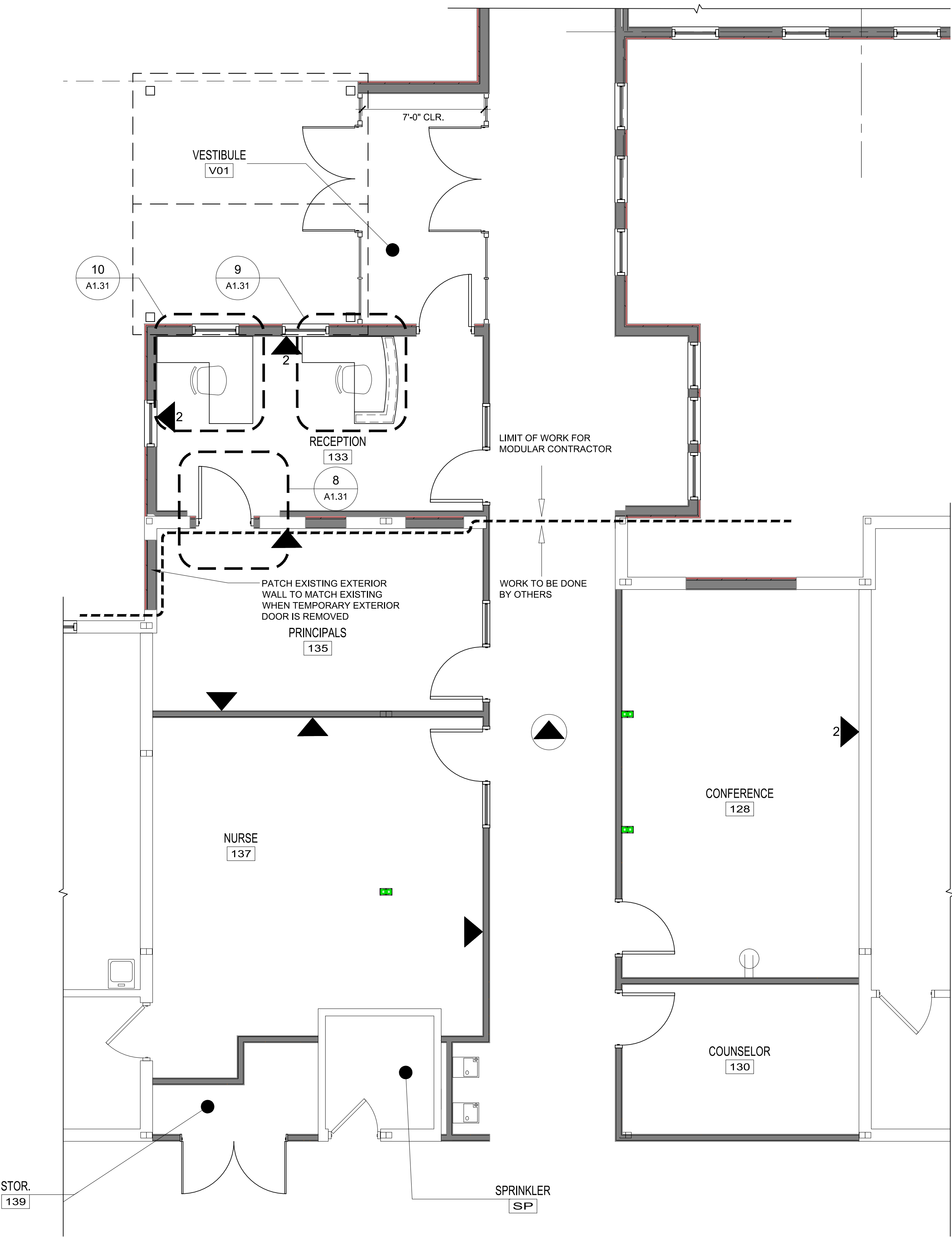
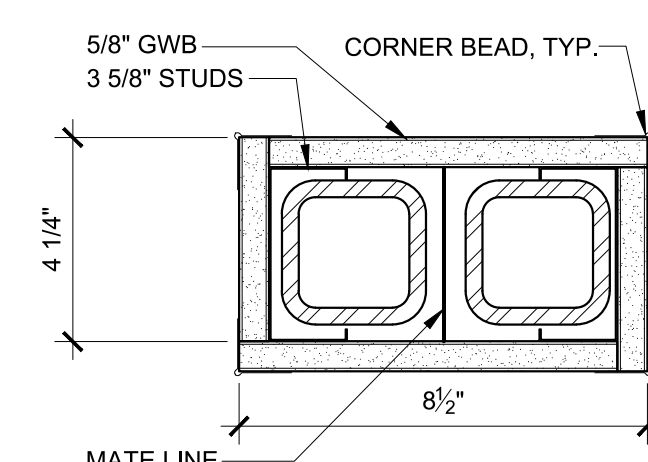
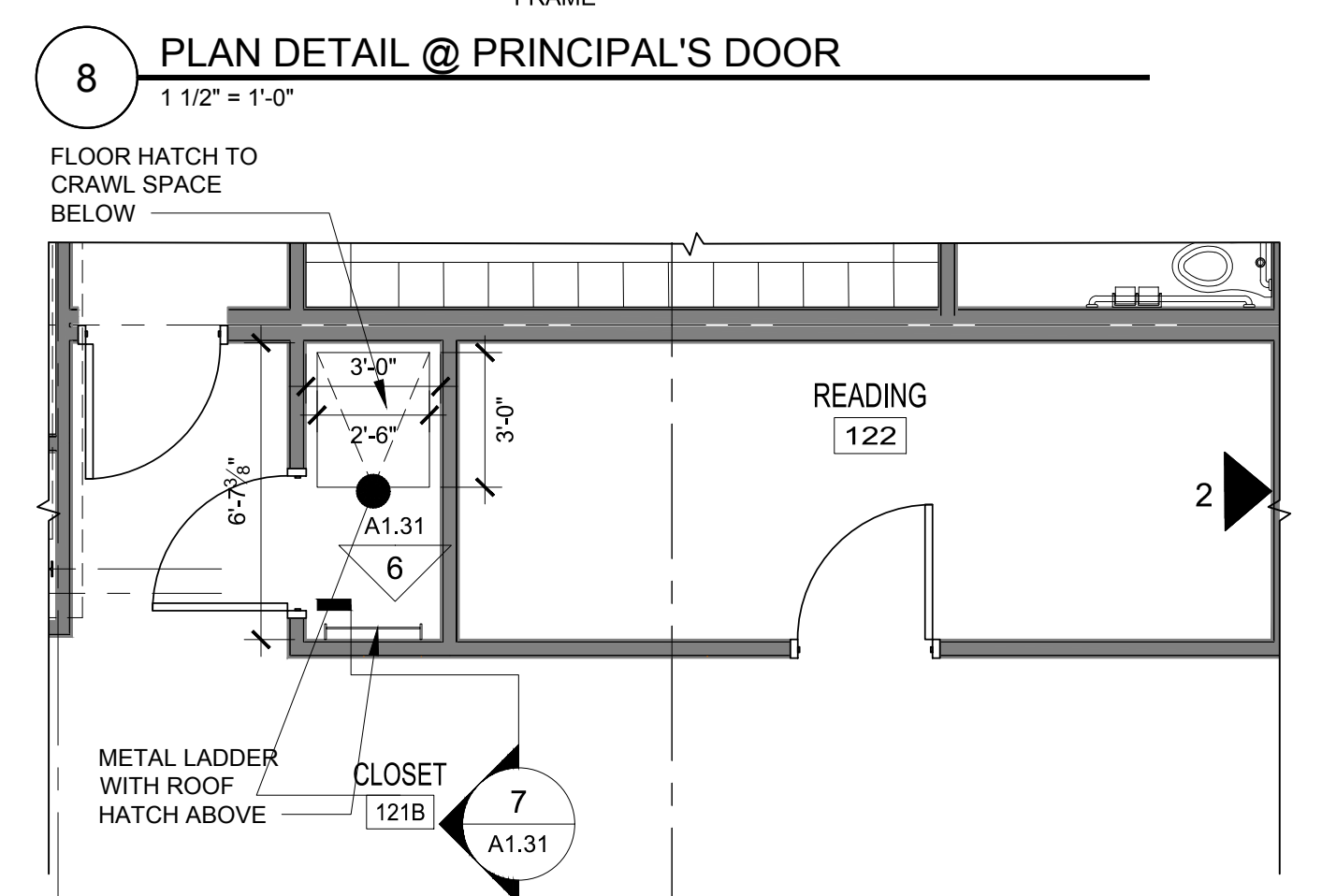
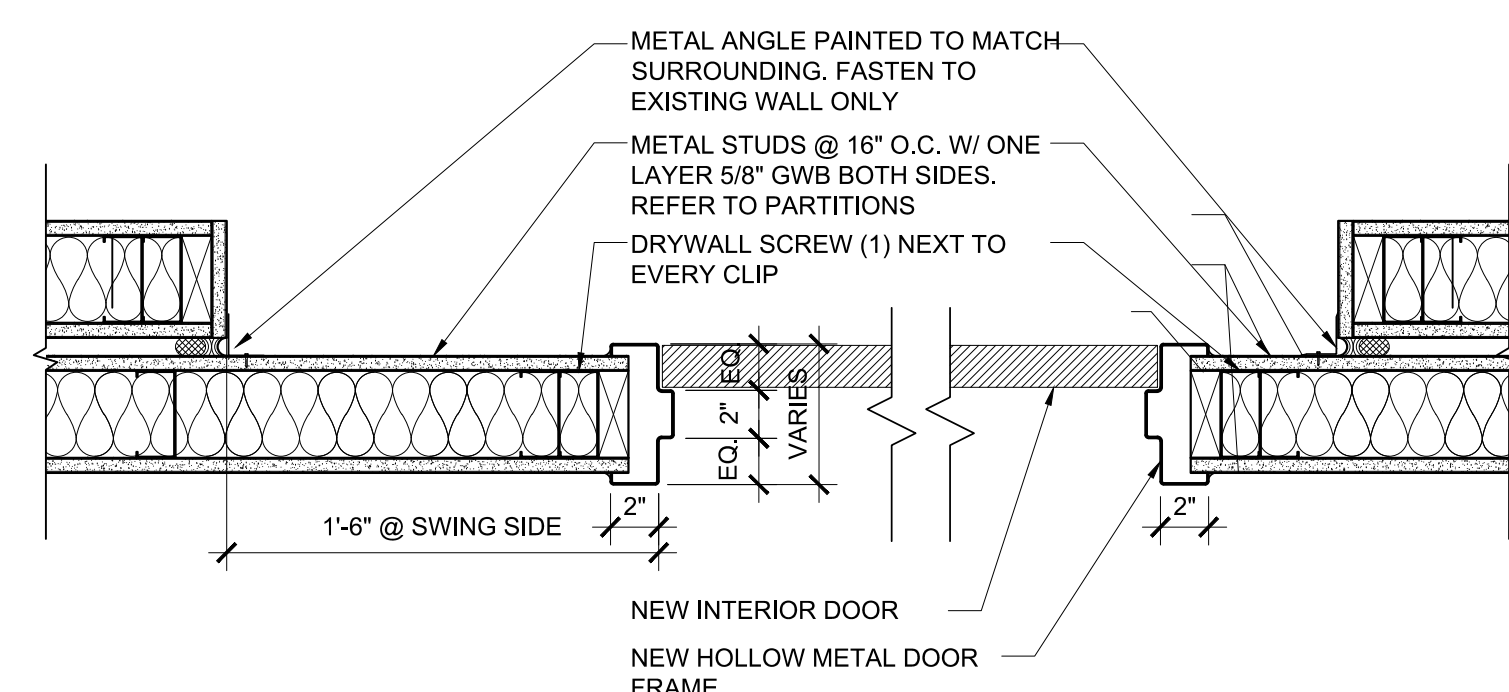
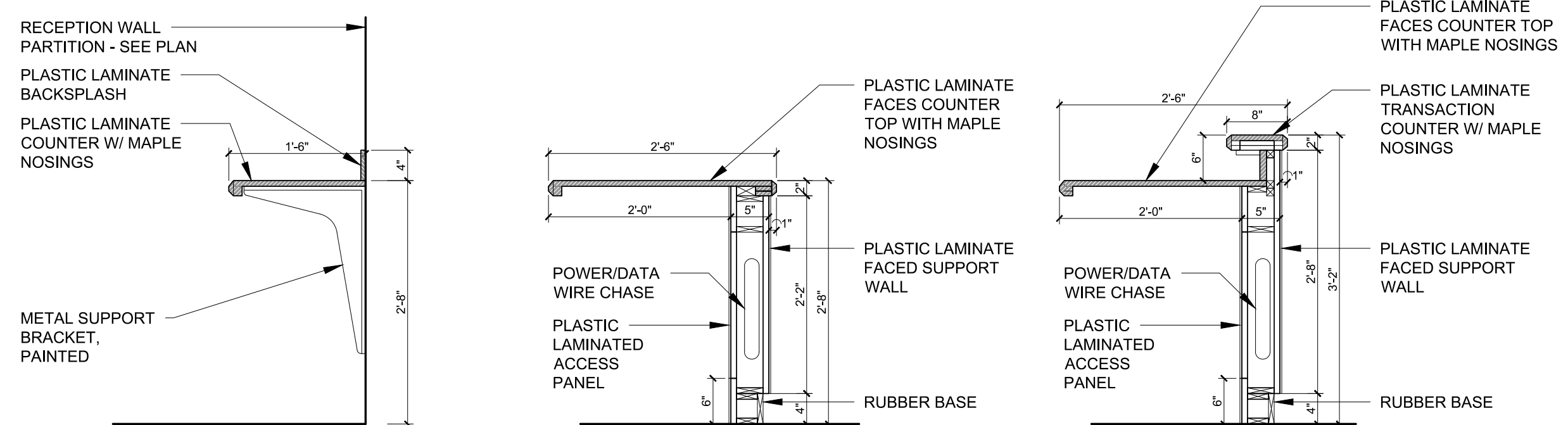
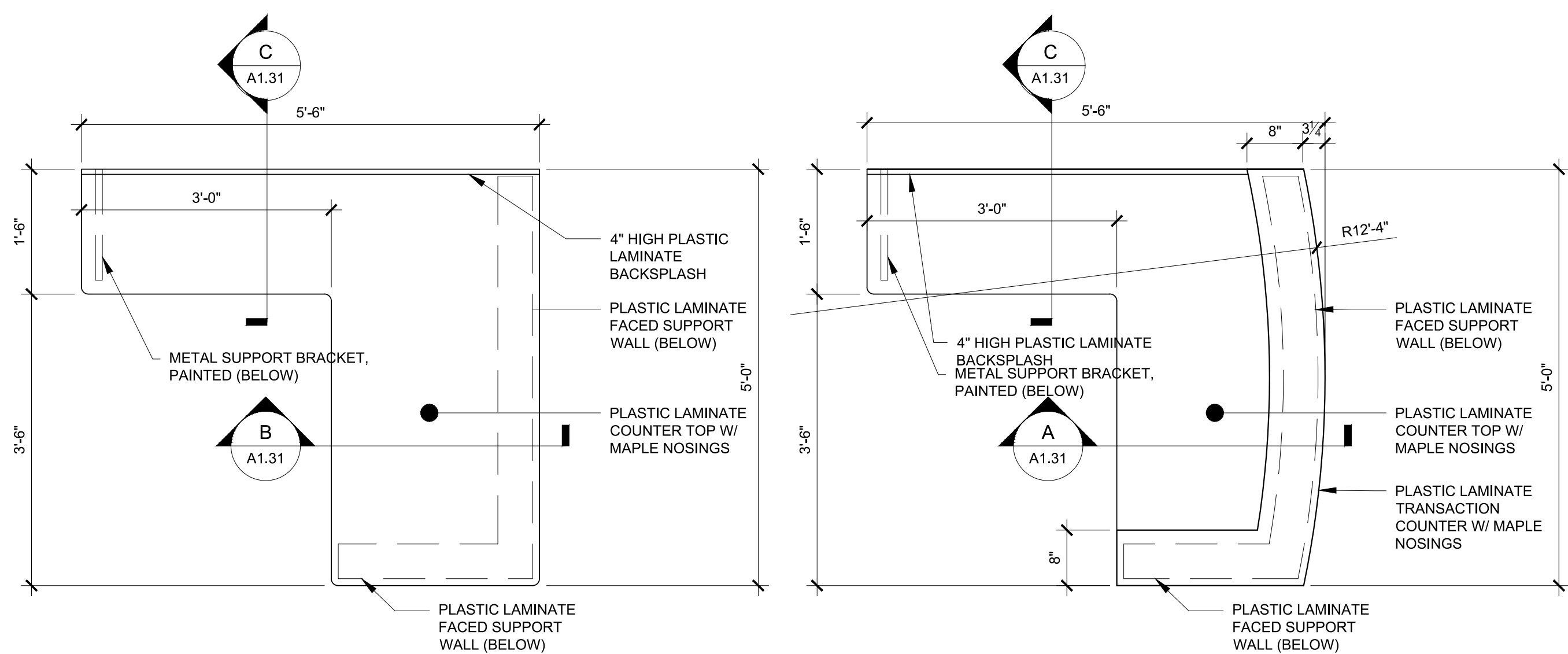
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Drawing Name:  
**ROOF PLAN**

Job No.: S123917	Drawing No. <b>A1.20</b>
Date: 11/01/2017	
RFP DOCUMENTS	







**KBA ARCHITECTS**  
KNIGHT, BAGGE AND ANDERSON, INC.  
6 THIRTEENTH STREET  
CHARLESTOWN, MA. 02129  
617-241-2807 (T)  
617-241-2857 (F)

Designed By: DPB  
Drawn By: ERL  
Checked By: MLW

REV	DATE	DESCRIPTION

Project North:  
CALLED NORTH  
ACTUAL NORTH

Key Plan:

**KINDERGARTEN MODULAR CLASSROOM  
ADDITION TO THE NORTH ANDOVER  
EARLY CHILDHOOD CENTER**  
115 PHILIPS BROOK RD.  
NORTH ANDOVER, MA 01845

Stamp:


Drawing Name:  
**ENLARGED PLANS AND DETAILS**

Job No.: S123917  
Date: 11/01/2017  
Drawing No.: **A1.31**  
RFP DOCUMENTS



Checked By: MLW

Project North:



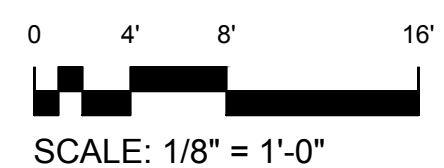
CALLED NORTH

ACTUAL NORTH

Key Plan:

KINDERGARTEN MODULAR CLASSROOM  
ADDITION TO THE NORTH ANDOVER  
EARLY CHILDHOOD CENTER  
115 PHILIPS BROOK RD.  
NORTH ANDOVER, MA 01845

RFP DOCUMENTS



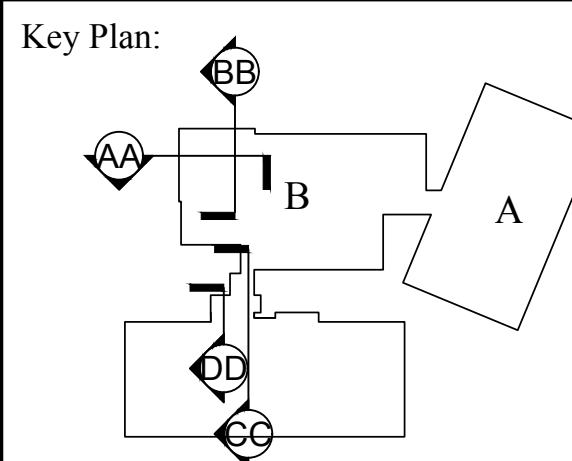
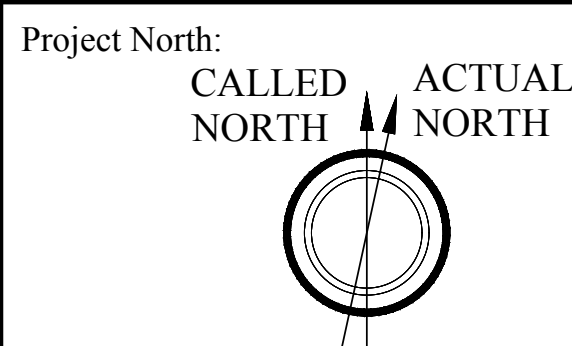


Designed By: DPB

Drawn By: ERL

Checked By: MLW

REV	DATE	DESCRIPTION



**KINDERGARTEN MODULAR CLASSROOM  
ADDITION TO THE NORTH ANDOVER  
EARLY CHILDHOOD CENTER**

115 PHILIPS BROOK RD.  
NORTH ANDOVER, MA 01845

Stamp:

Drawing Name:

**BUILDING SECTIONS**

Job No.:

S123917

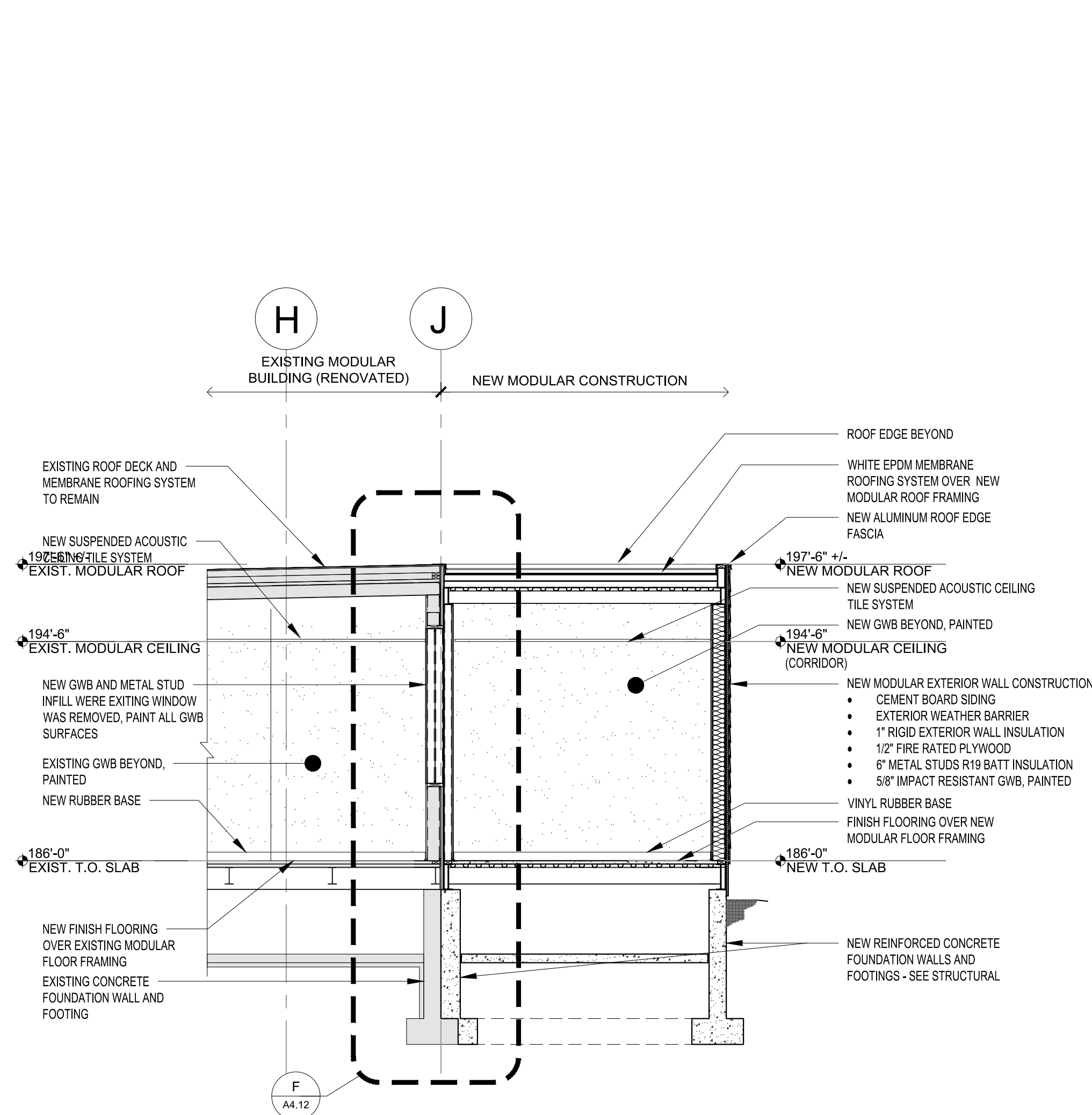
Date:

11/01/2017

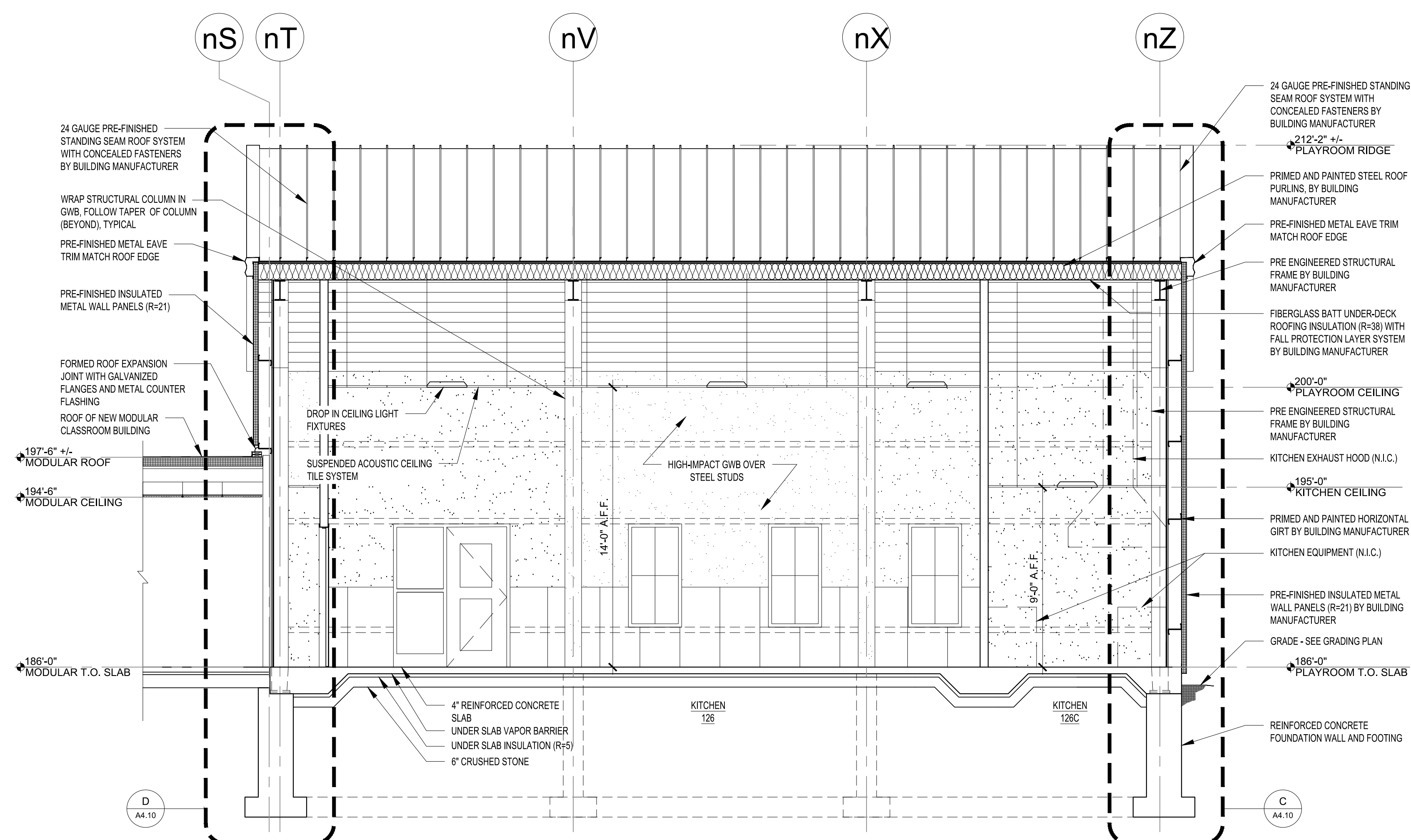
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**A4.10**

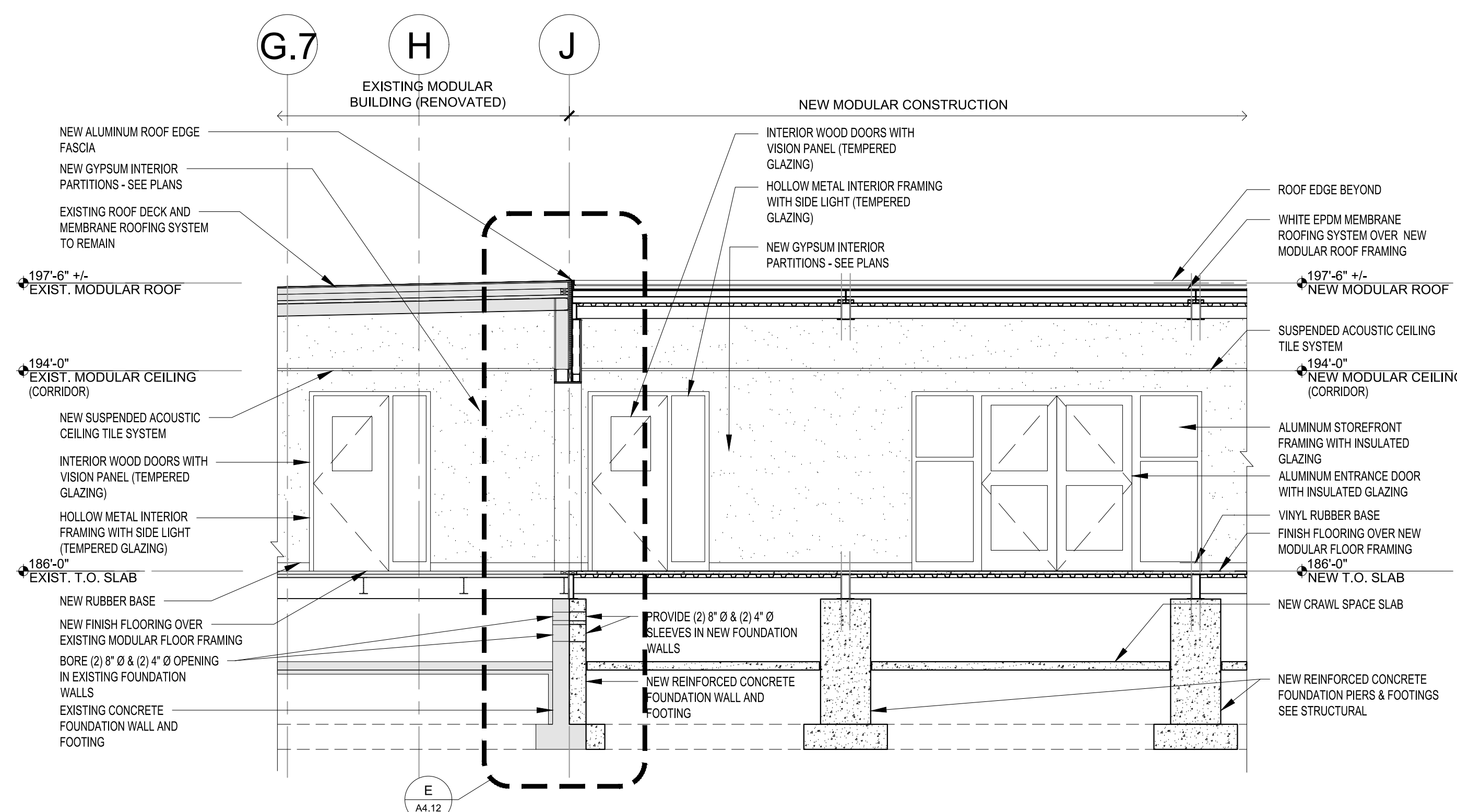
RFP DOCUMENTS



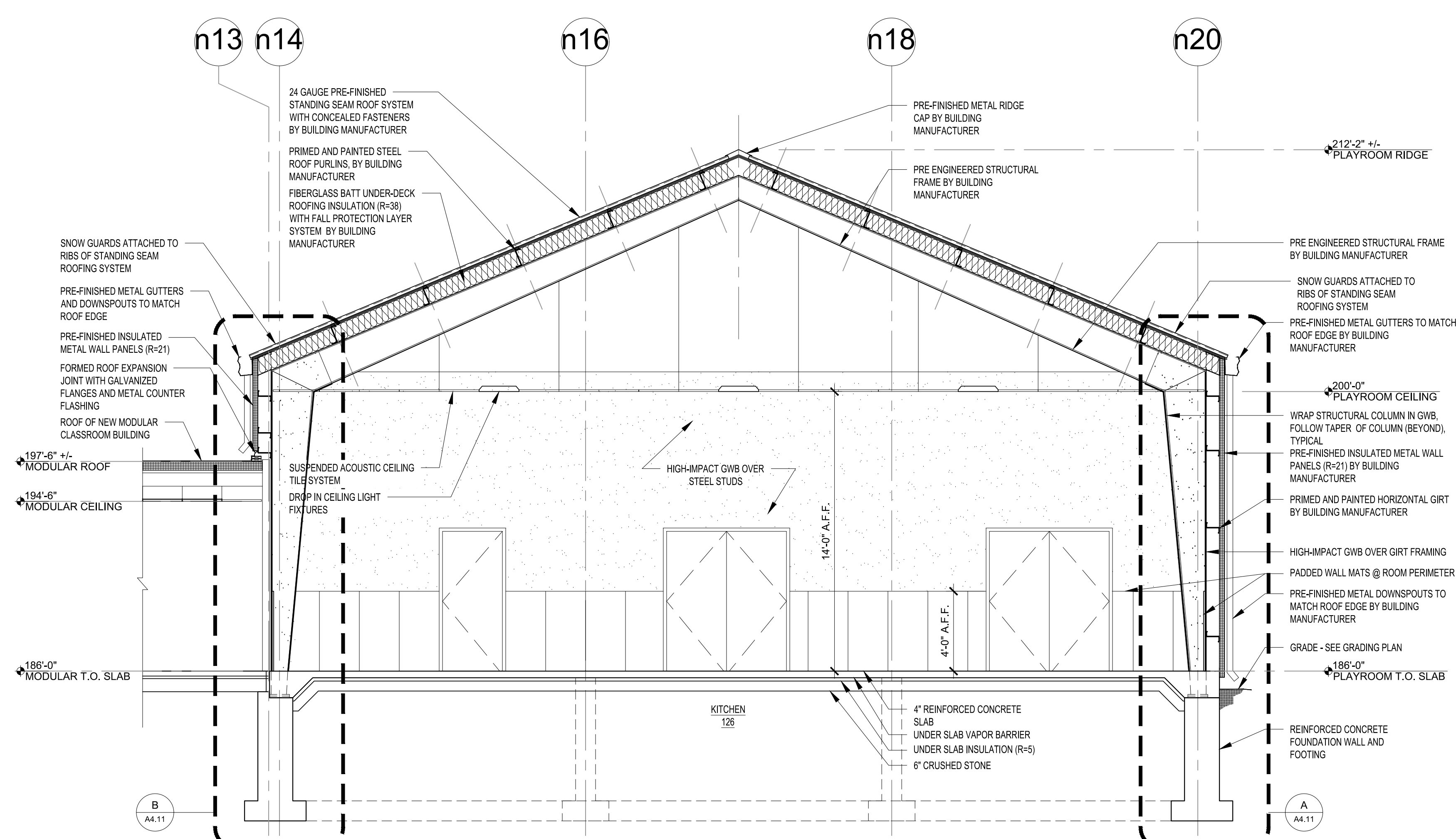
**DD BUILDING SECTION**  
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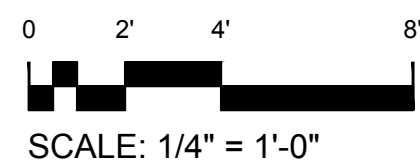
**BB BUILDING SECTION**  
1/4" = 1'-0"



**CC BUILDING SECTION**  
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**AA BUILDING SECTION**  
1/4" = 1'-0"





Checked By: MLW

[illegible]

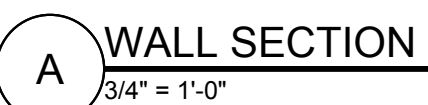
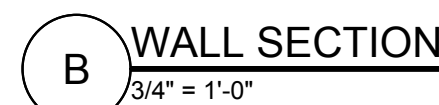
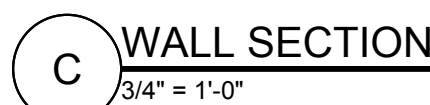
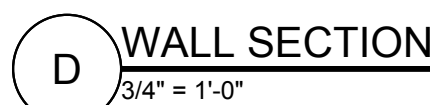
The diagram shows two mechanical parts, A and B, in contact. Part A is a rectangular block tilted at an angle. Part B is a more complex shape with a notch that fits into part of part A. Four reaction forces are indicated by arrows: (1) acts vertically upwards at the bottom of part B; (2) acts horizontally to the right at the left side of part B; (3) acts vertically downwards at the top of part B; and (4) acts horizontally to the left at the right side of part A.

KINDERGARTEN MODULAR CLASSROOM  
ADDITION TO THE NORTH ANDOVER  
EARLY CHILDHOOD CENTER  
115 PHILIPS BROOK RD.  
NORTH ANDOVER, MA 01845

WALL SECTIONS

A4.11

RFP DOCUMENTS



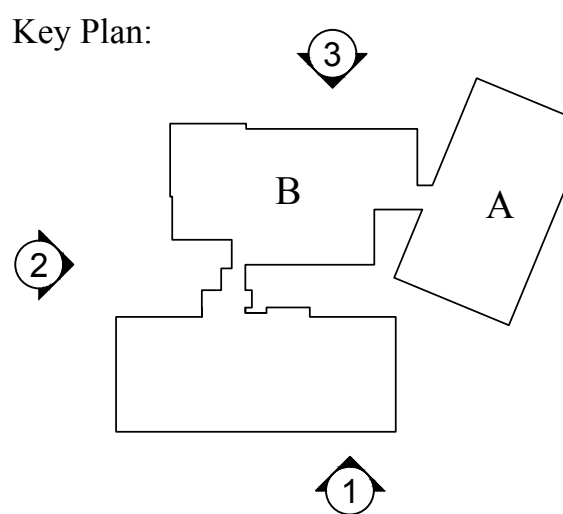
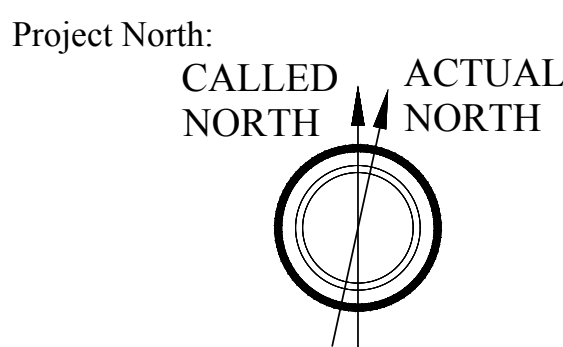


Designed By: DPB

Drawn By: ERL

Checked By: MLW

REV	DATE	DESCRIPTION



KINDERGARTEN MODULAR CLASSROOM  
ADDITION TO THE NORTH ANDOVER  
EARLY CHILDHOOD CENTER

115 PHILIPS BROOK RD.  
NORTH ANDOVER, MA 01845

Stamp:

Drawing Name:

WALL SECTIONS

Job No.:

S123917

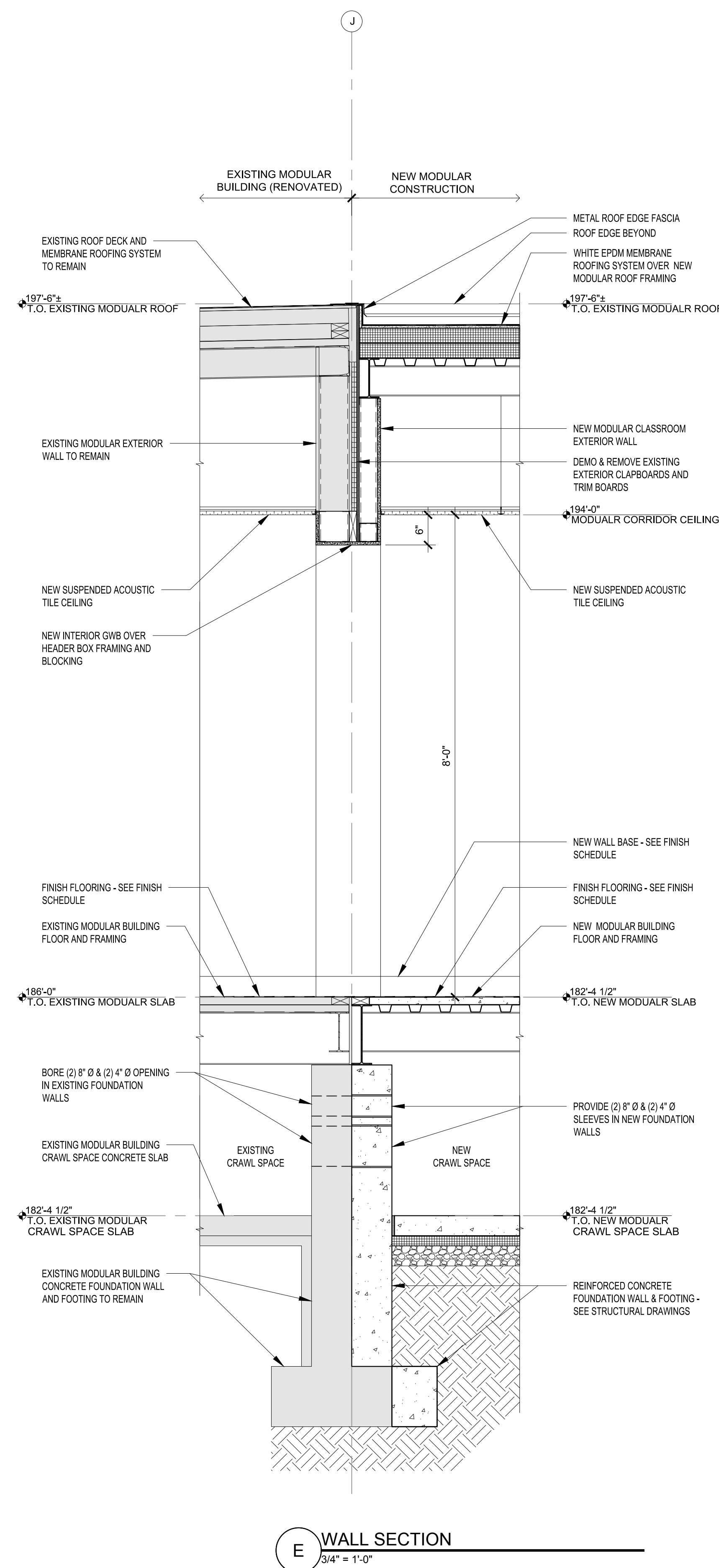
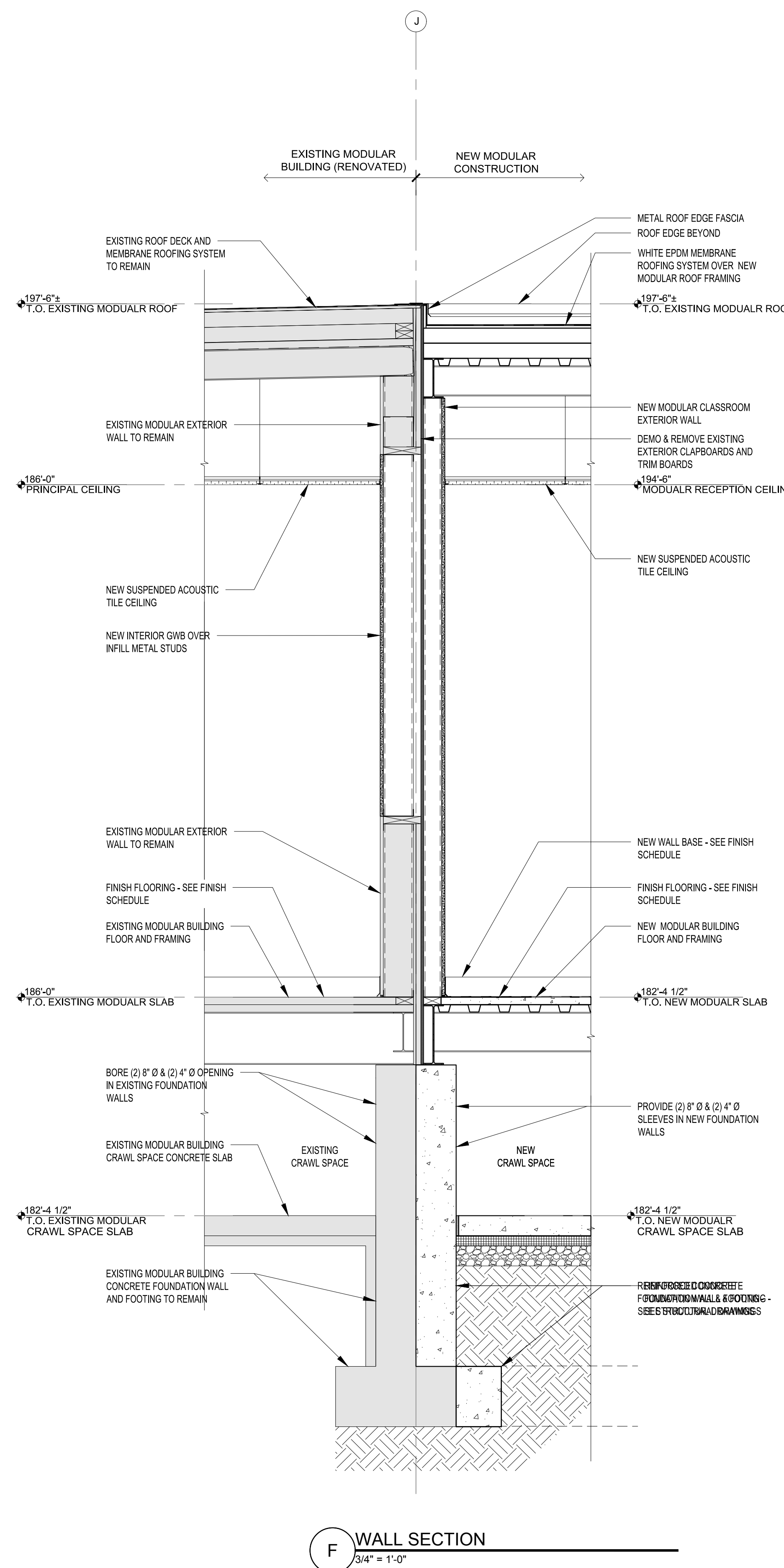
Date:

11/01/2017

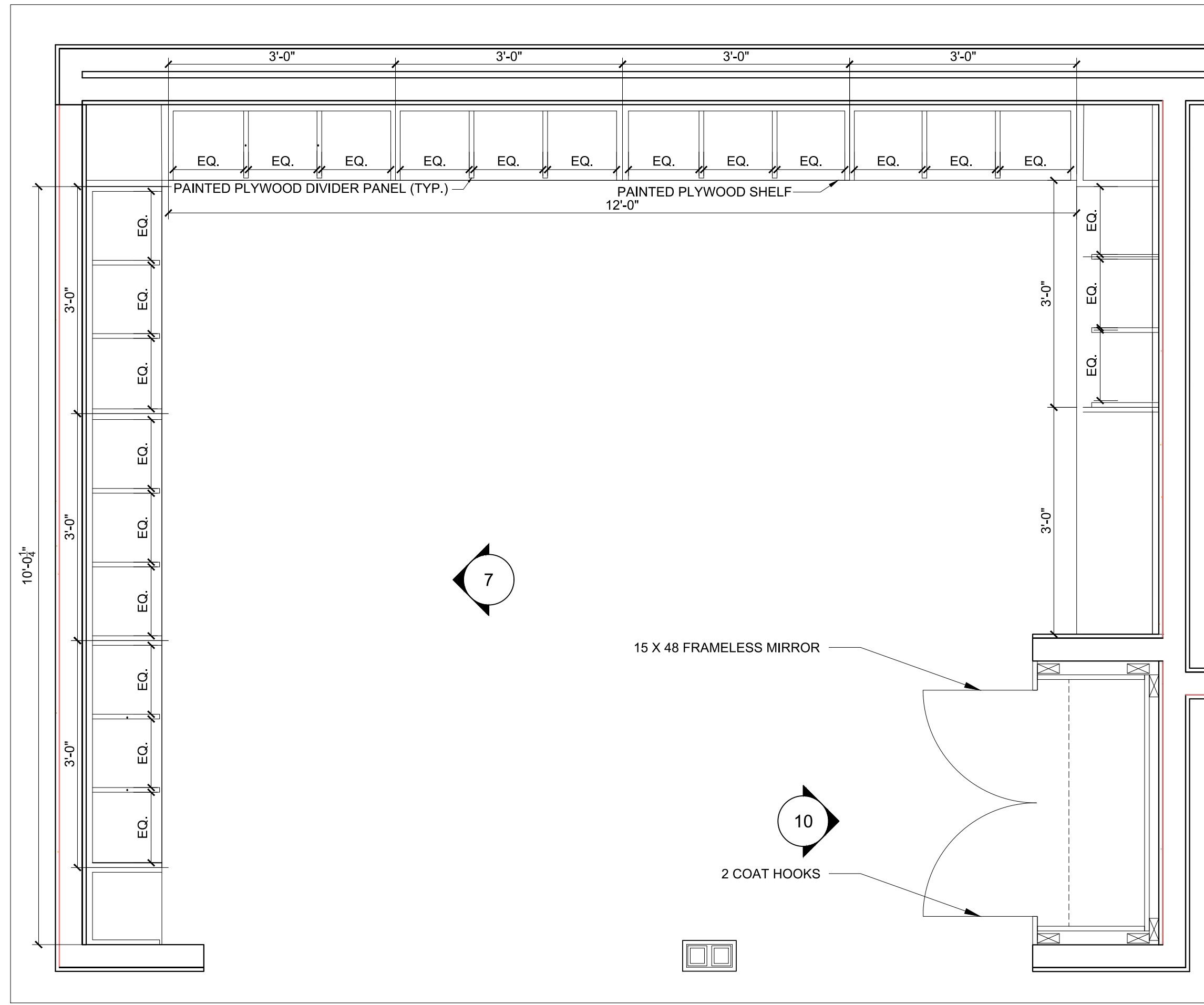
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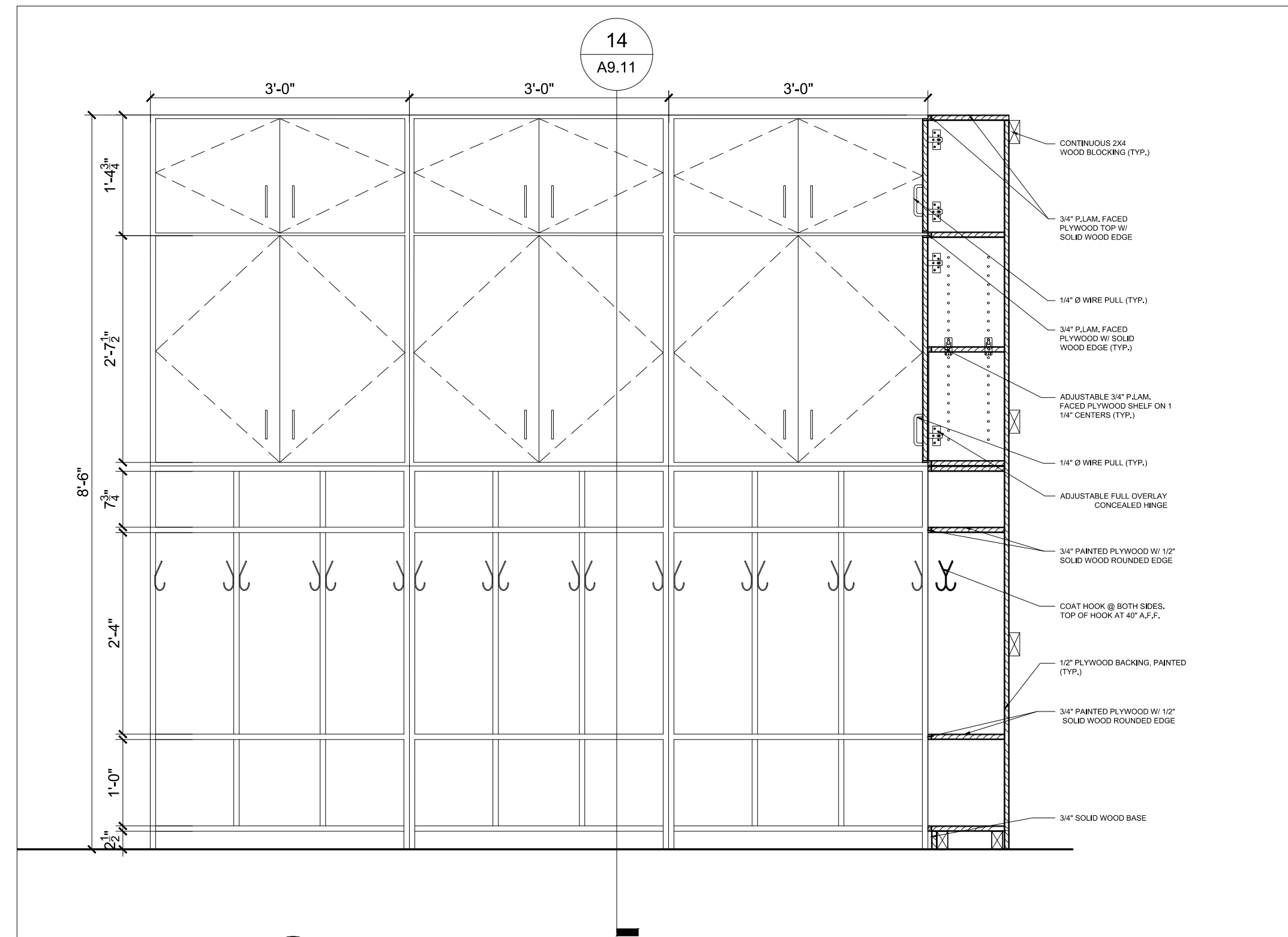
RFP DOCUMENTS



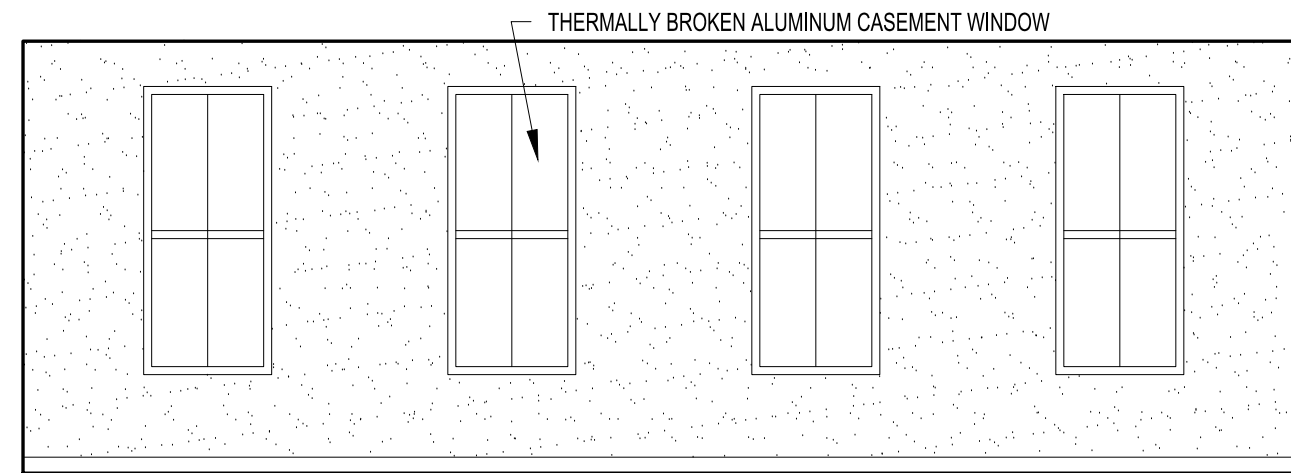




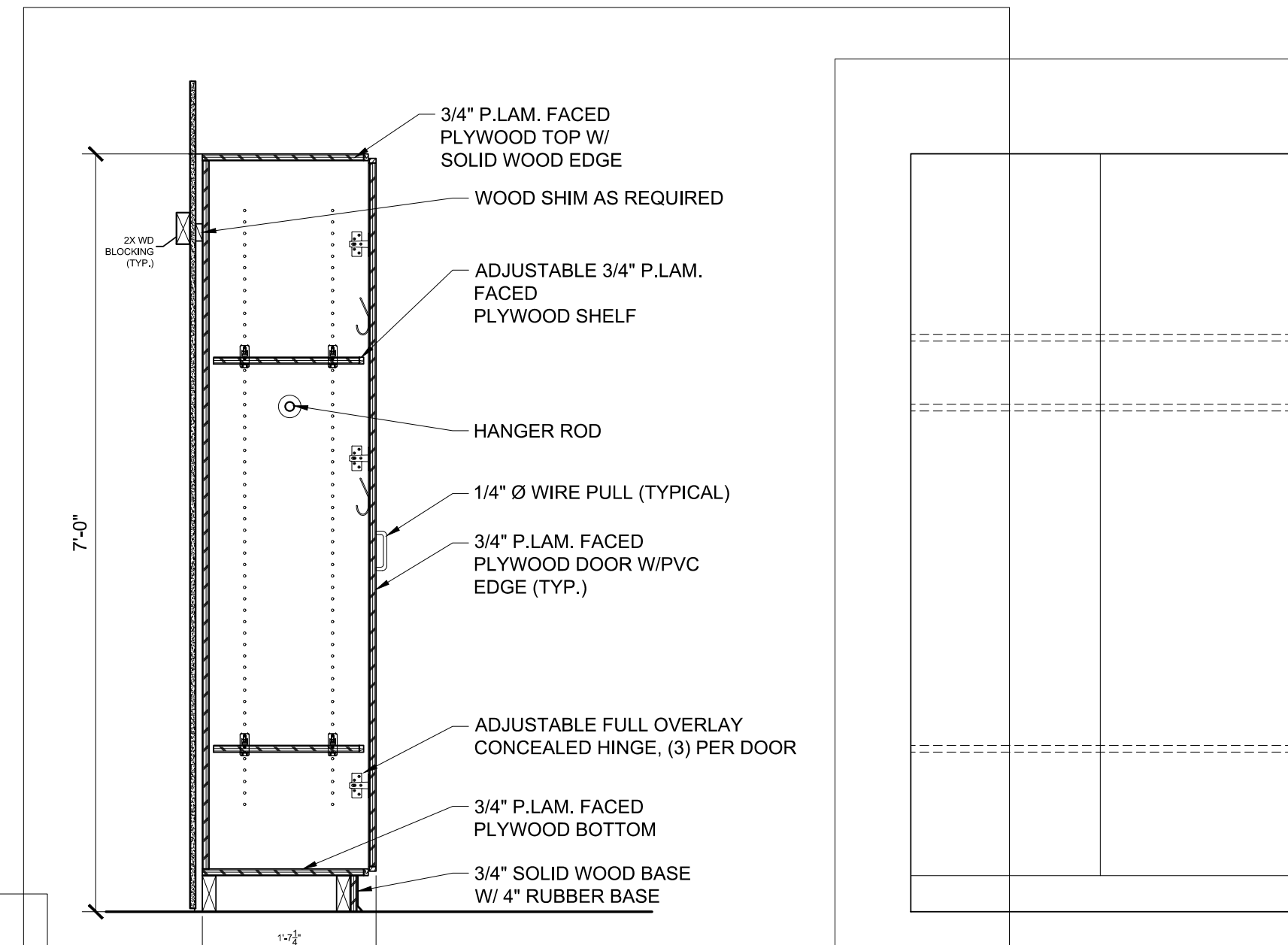
11 TYPICAL CLASSROOM CUBBY PLAN  
1/4"=1'-0"



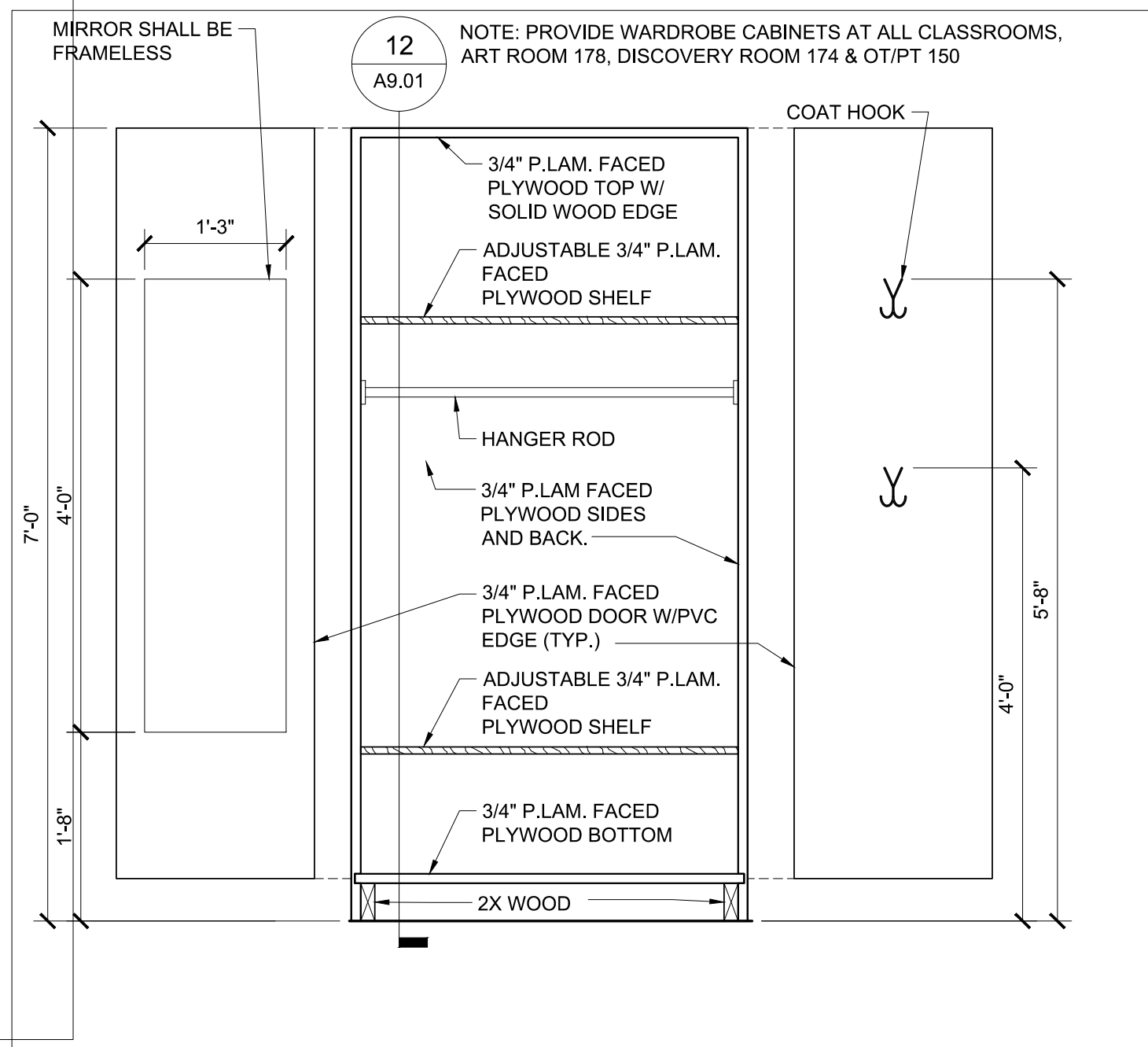
7 TYPICAL CLASSROOM CUBBIE ELEVATION  
3/4"=1'-0"



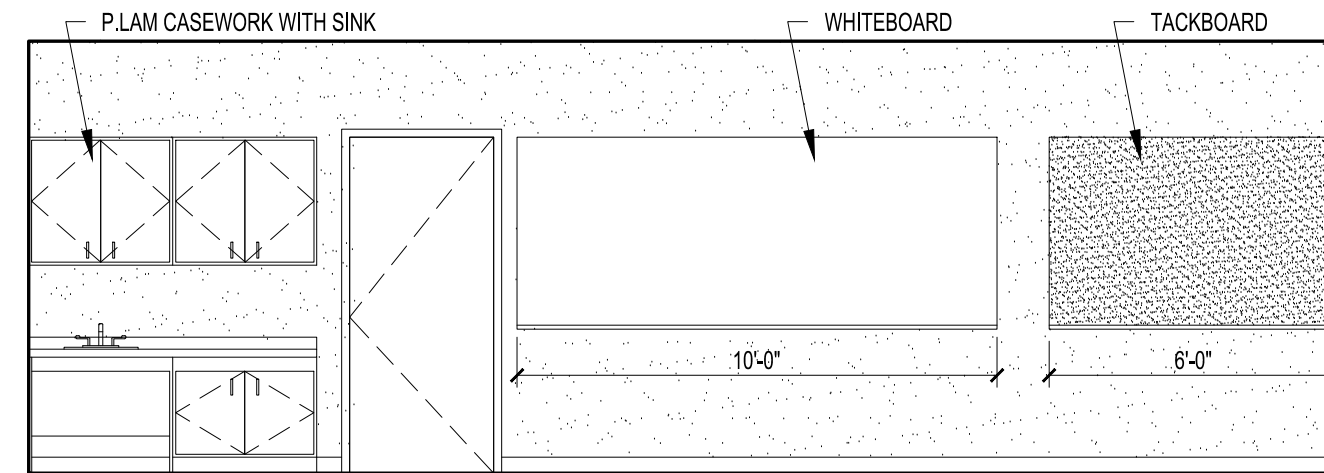
4 TYPICAL CLASSROOM ELEVATION  
1/4"=1'-0"



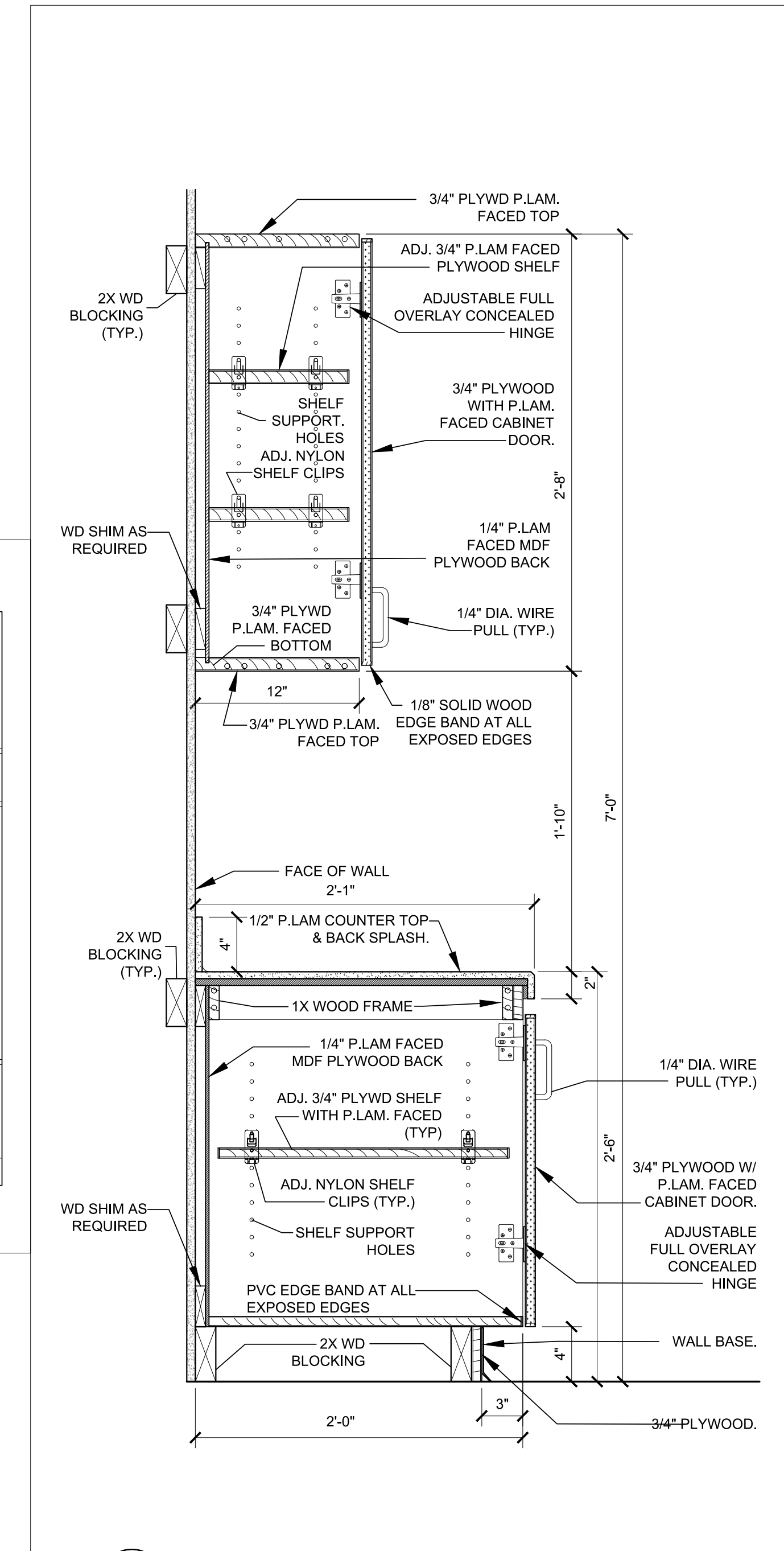
13 TYPICAL TEACHERS WARDROBE SECTION AND ELEVATION  
3/4"=1'-0"



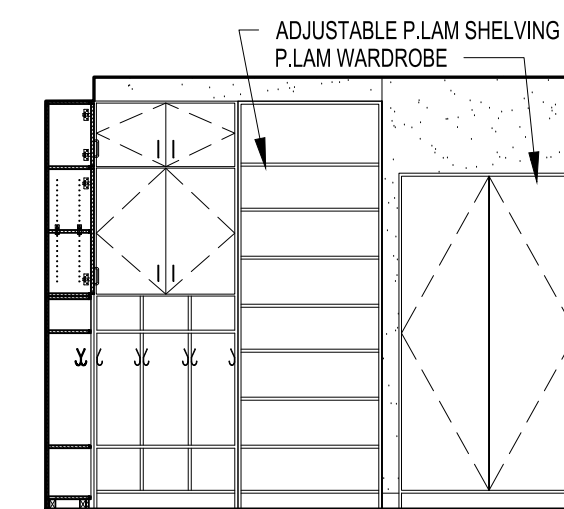
12 TYPICAL TEACHERS WARDROBE  
3/4"=1'-0"



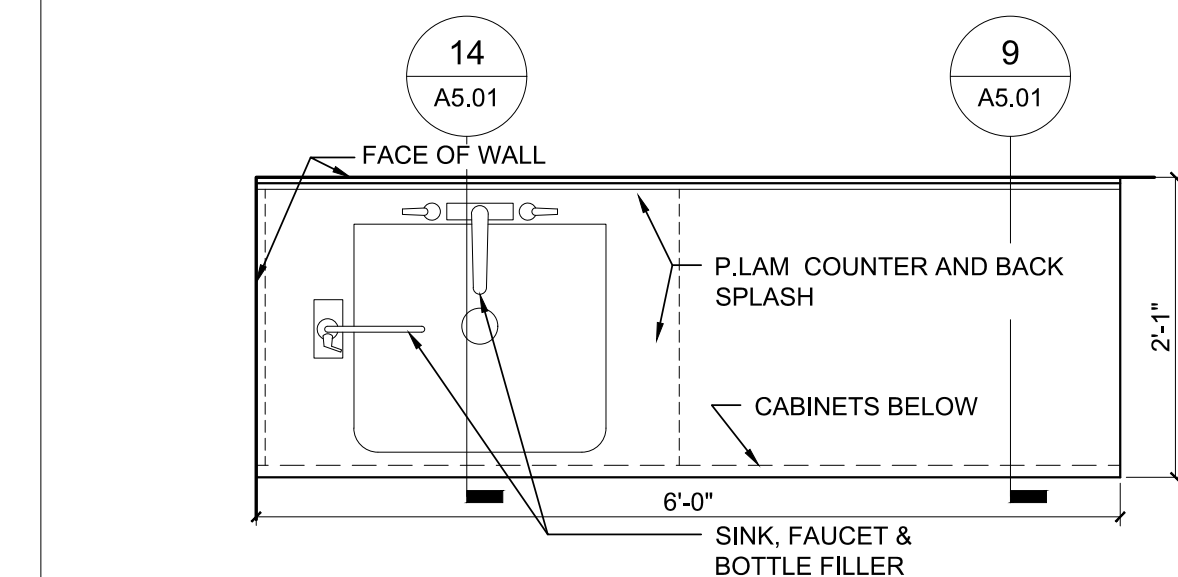
3 TYPICAL CLASSROOM ELEVATION  
1/4"=1'-0"



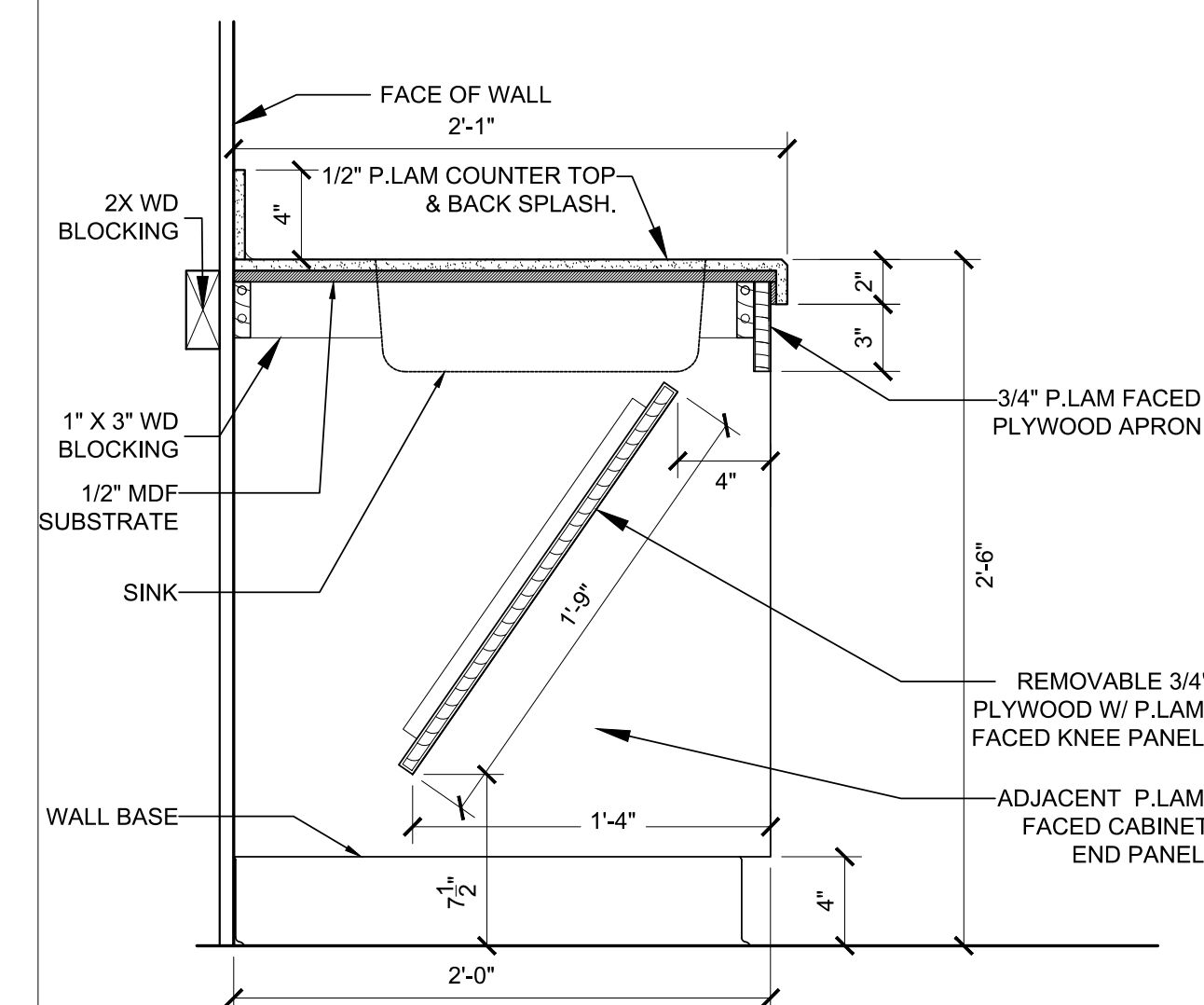
9 TYPICAL CLASSROOM CABINET SECTION  
3/4"=1'-0"



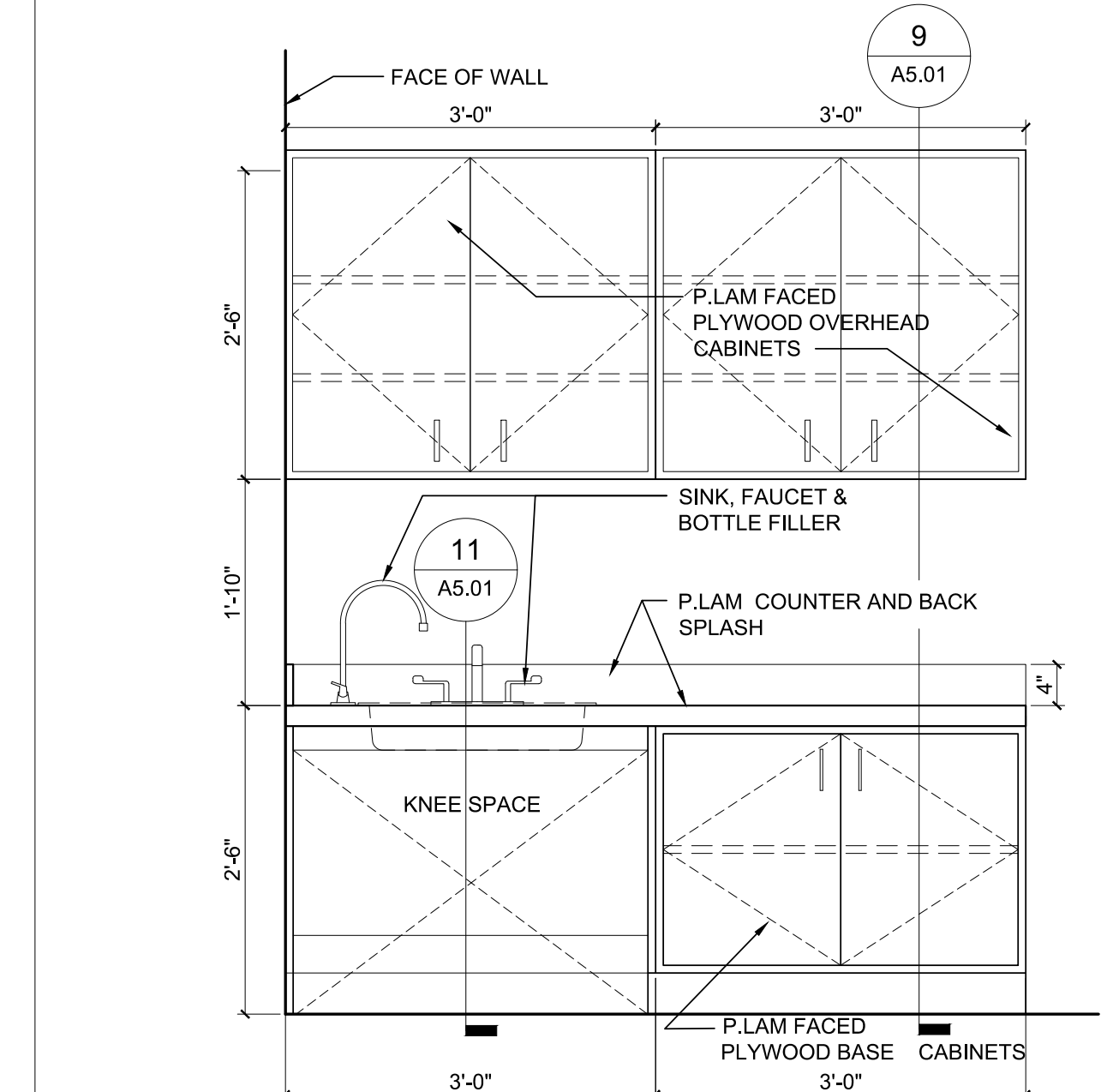
2 TYPICAL CLASSROOM ELEVATION  
1/4"=1'-0"



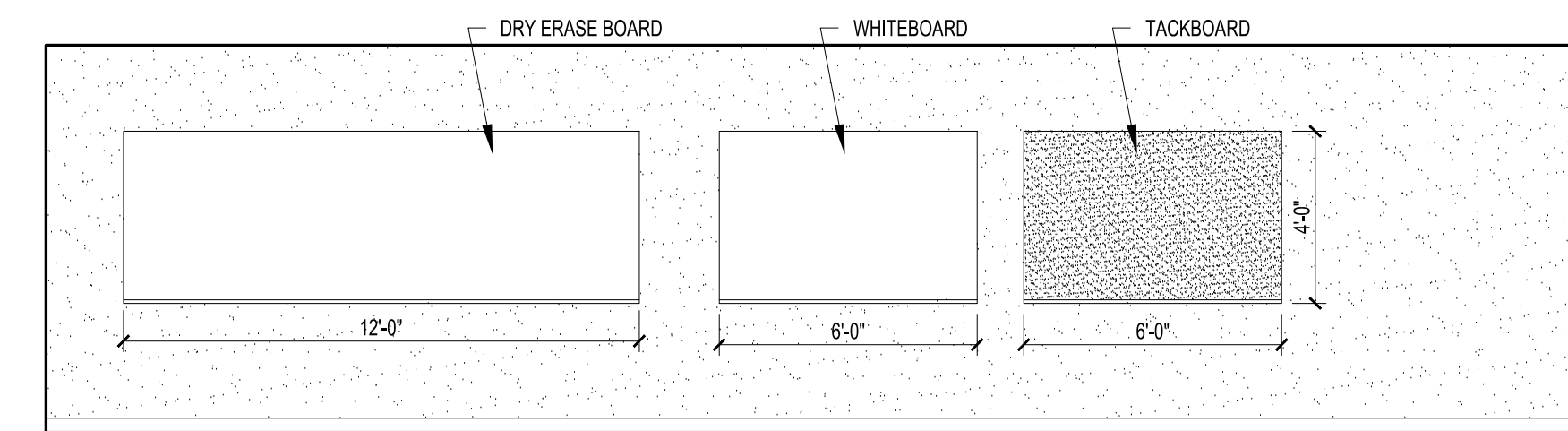
14 TYPICAL CLASSROOM CABINET PLAN  
3/4"=1'-0"



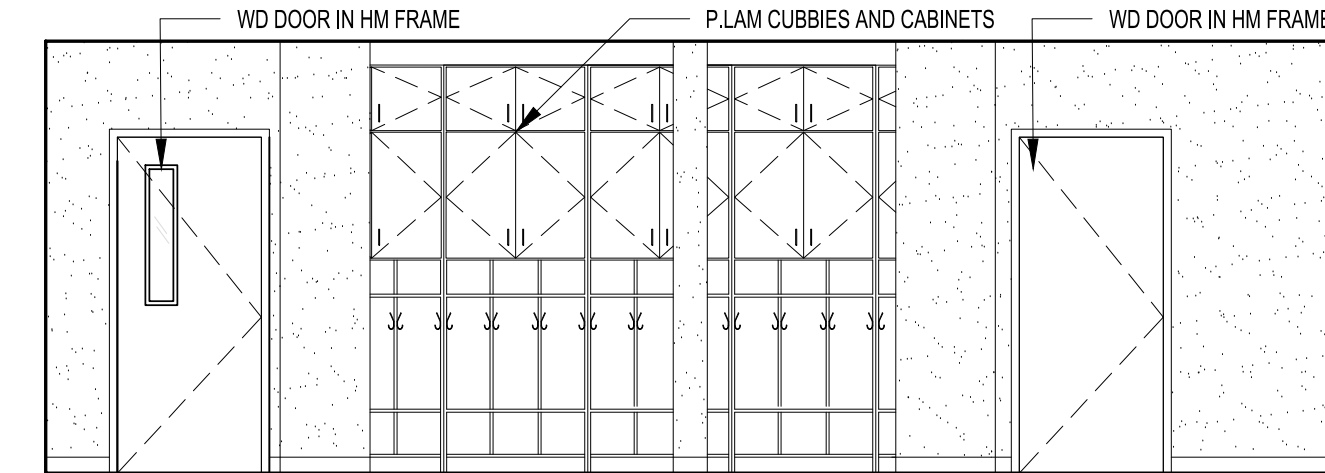
12 TYPICAL CLASSROOM CABINET SECTION @ SINK  
3/4"=1'-0"



8 TYPICAL CLASSROOM CABINET ELEVATION  
3/4"=1'-0"



5 TYPICAL CLASSROOM ELEVATION  
1/4"=1'-0"



1 TYPICAL CLASSROOM ELEVATION  
1/4"=1'-0"

Designed By: DPB

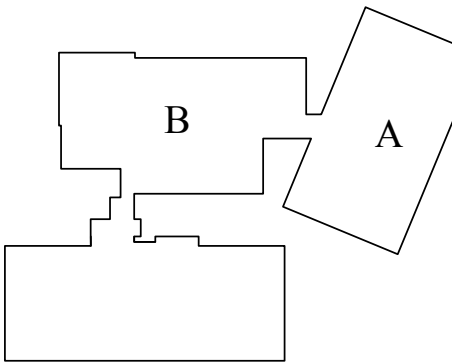
Drawn By: ERL

Checked By: MLW

REV	DATE	DESCRIPTION

Project North:  
CALLED  
NORTH  
ACTUAL  
NORTH

Key Plan:



KINDERGARTEN MODULAR CLASSROOM  
ADDITION TO THE NORTH ANDOVER  
EARLY CHILDHOOD CENTER

115 PHILIPS BROOK RD.  
NORTH ANDOVER, MA 01845

Stamp:

Drawing Name:

INTERIOR  
ELEVATIONS AND  
CASEWORK DETAILS

Job No.:

S123917

Date:

11/01/2017

Drawing No.

A5.01

RFP DOCUMENTS

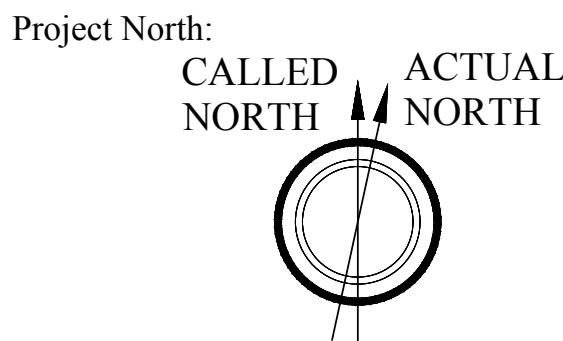


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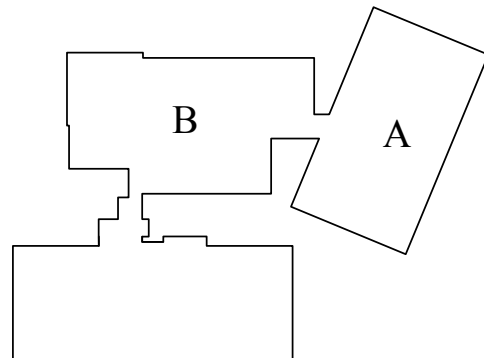
Drawn By: ERL

Checked By: MLW

REV	DATE	DESCRIPTION



Key Plan:



KINDERGARTEN MODULAR CLASSROOM  
ADDITION TO THE NORTH ANDOVER  
EARLY CHILDHOOD CENTER

115 PHILIPS BROOK RD.  
NORTH ANDOVER, MA 01845

Stamp:

Drawing Name:

FIRST FLOOR  
RCP KEY PLAN

Job No.:

S123917

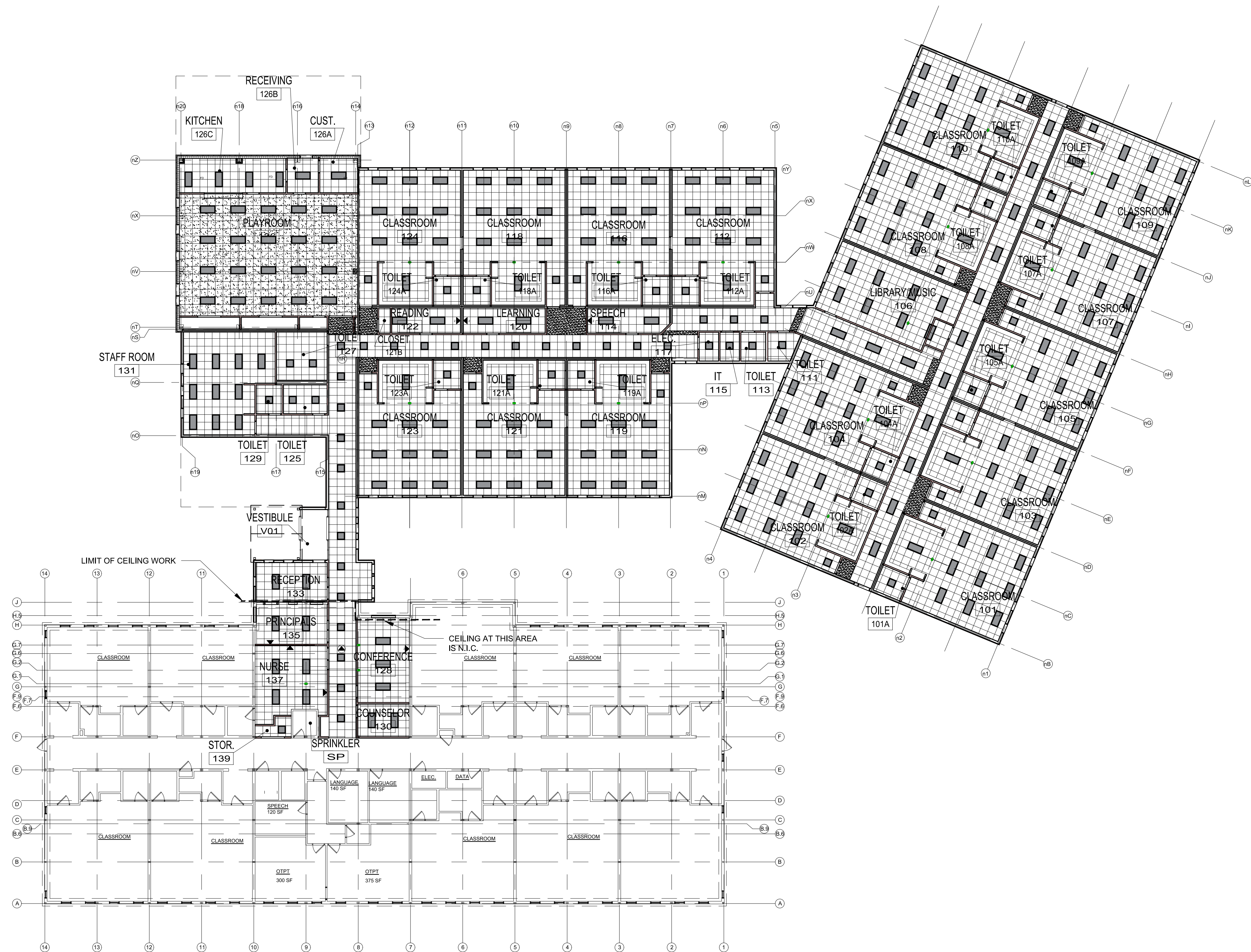
Date:

11/01/2017

Drawing No.

A6.01

RFP DOCUMENTS



OVERALL FIRST FLOOR RCP PLAN

0 8' 16' 32'

SCALE: 1/16" = 1'-0"

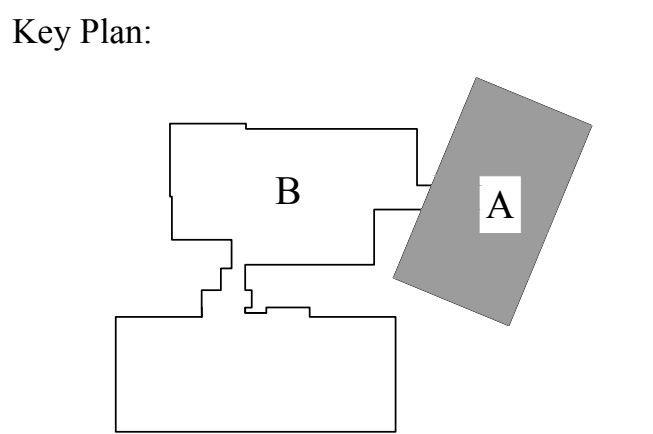
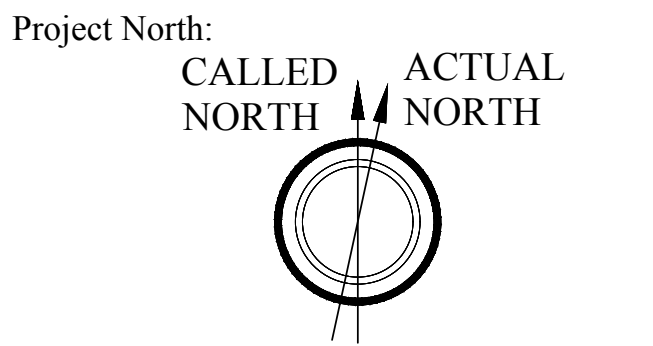


Designed By: DPB

Drawn By: ERL

Checked By: MLW

REV	DATE	DESCRIPTION



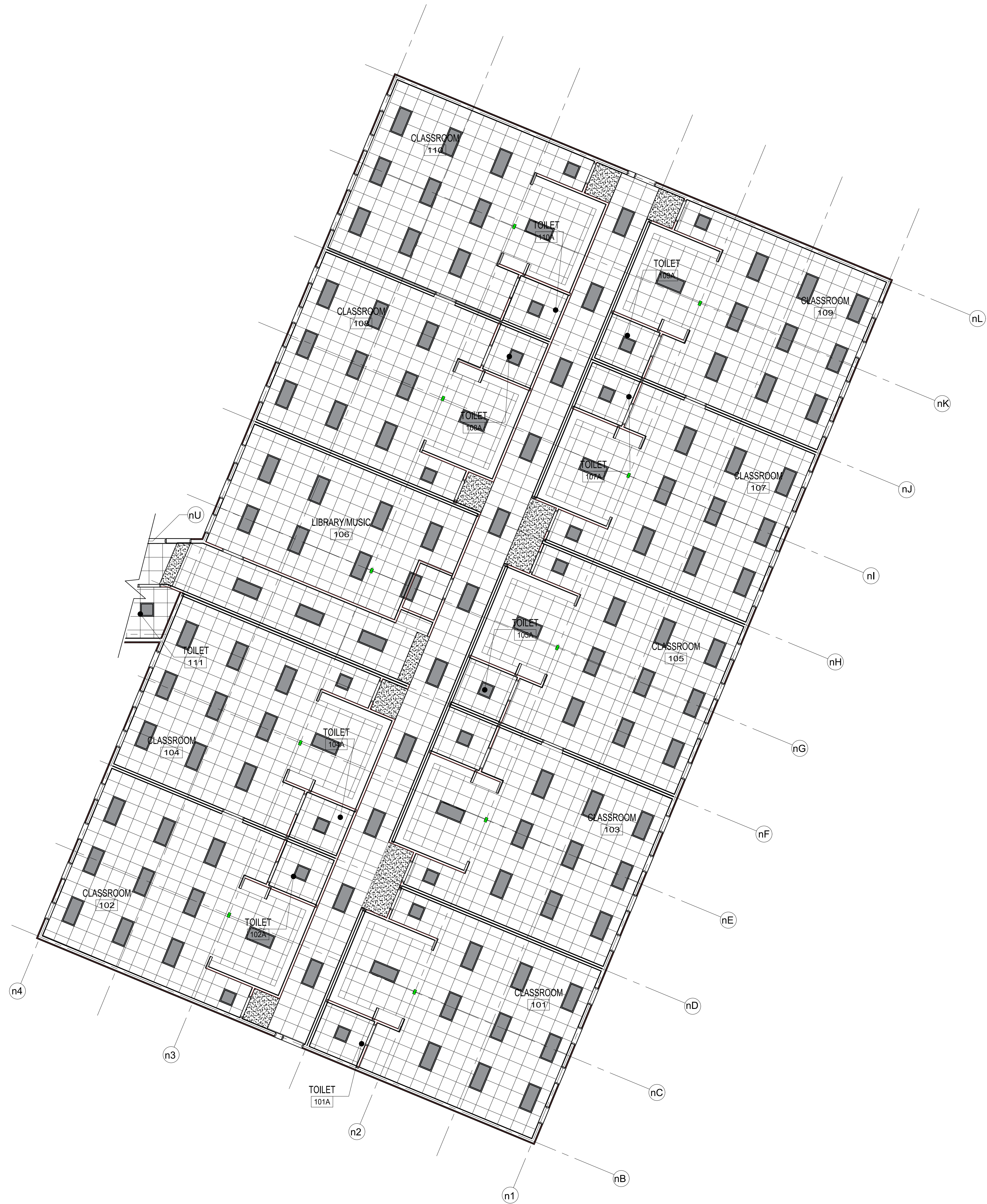
KINDERGARTEN MODULAR CLASSROOM  
ADDITION TO THE NORTH ANDOVER  
EARLY CHILDHOOD CENTER  
115 PHILIPS BROOK RD.  
NORTH ANDOVER, MA 01845

Stamp:

Drawing Name:  
**FIRST FLOOR RCP  
PART A**

Job No.: S123917	Drawing No. <b>A6.11</b>
Date: 11/01/2017	

RFP DOCUMENTS



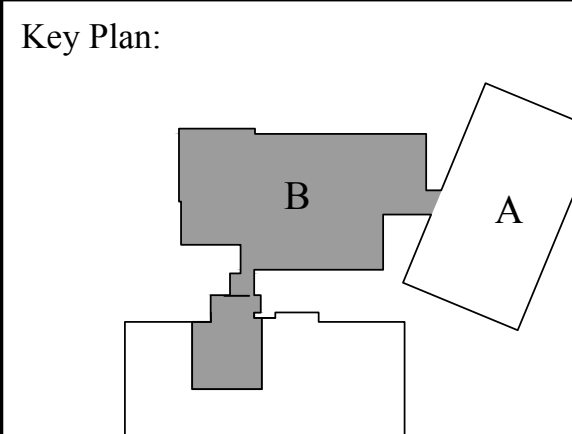
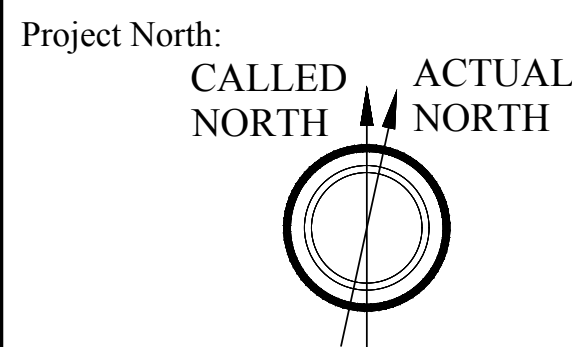


Designed By: DPB

Drawn By: ERL

Checked By: MLW

REV	DATE	DESCRIPTION



KINDERGARTEN MODULAR CLASSROOM  
ADDITION TO THE NORTH ANDOVER  
EARLY CHILDHOOD CENTER  
115 PHILIPS BROOK RD.  
NORTH ANDOVER, MA 01845

Stamp:

Drawing Name:

FIRST  
FLOOR RCP  
PART B

Job No.:

S123917

Date:

11/01/2017

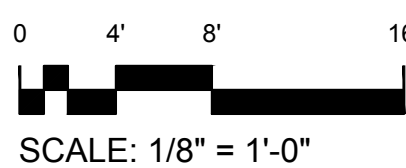
Drawing No.

A6.12

RFP DOCUMENTS



FIRST FLOOR PLAN - PART B





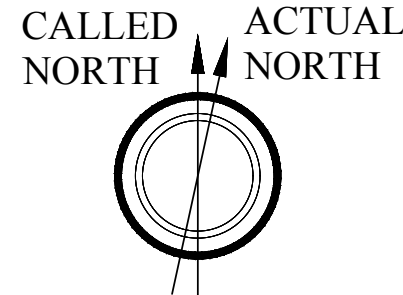
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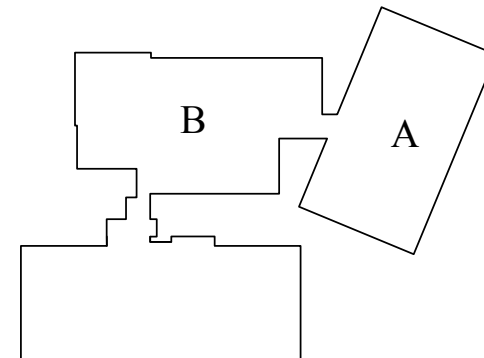
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REV	DATE	DESCRIPTION

Project North:



Key Plan:



KINDERGARTEN MODULAR CLASSROOM  
ADDITION TO THE NORTH ANDOVER  
EARLY CHILDHOOD CENTER

115 PHILIPS BROOK RD.  
NORTH ANDOVER, MA 01845

Stamp:

Drawing Name:

ROOM FINISH  
AND DOOR  
SCHEDULES

Job No.:

S123917

Date:

11/01/2017

Drawing No.

A7.01

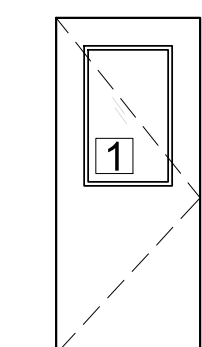
RFP DOCUMENTS

ROOM FINISH SCHEDULE

Number	ROOM NAME	FLOOR	WALLS				CEILING	NOTES
			N	S	E	W		
101	CLASSROOM	VCT	PT GWB	PT GWB	PT GWB	PT GWB	ACT	---
101A	TOILET	FT-1	CTPTD, GWB	CTPTD, GWB	CTPTD, GWB	CTPTD, GWB	ACT	---
102	CLASSROOM	VCT	PT GWB	PT GWB	PT GWB	PT GWB	ACT	---
102A	TOILET	FT-1	CTPTD, GWB	CTPTD, GWB	CTPTD, GWB	CTPTD, GWB	ACT	---
103	CLASSROOM	VCT	PT GWB	PT GWB	PT GWB	PT GWB	ACT	---
103A	TOILET	FT-1	CTPTD, GWB	CTPTD, GWB	CTPTD, GWB	CTPTD, GWB	ACT	---
104	CLASSROOM	VCT	PT GWB	PT GWB	PT GWB	PT GWB	ACT	---
104A	TOILET	FT-1	CTPTD, GWB	CTPTD, GWB	CTPTD, GWB	CTPTD, GWB	ACT	---
105	CLASSROOM	VCT	PT GWB	PT GWB	PT GWB	PT GWB	ACT	---
105A	TOILET	FT-1	CTPTD, GWB	CTPTD, GWB	CTPTD, GWB	CTPTD, GWB	ACT	---
106	LIBRARY/MUSIC	VCT	PT GWB	PT GWB	PT GWB	PT GWB	ACT	---
106A	MECH	RF	CTPTD, GWB	CTPTD, GWB	CTPTD, GWB	CTPTD, GWB	ACT-2	---
107	CLASSROOM	VCT	PT GWB	PT GWB	PT GWB	PT GWB	ACT	---
107A	TOILET	FT-1	CTPTD, GWB	CTPTD, GWB	CTPTD, GWB	CTPTD, GWB	ACT	---
108	CLASSROOM	VCT	PT GWB	PT GWB	PT GWB	PT GWB	ACT	---
108A	TOILET	FT-1	CTPTD, GWB	CTPTD, GWB	CTPTD, GWB	CTPTD, GWB	ACT	---
109	CLASSROOM	VCT	PT GWB	PT GWB	PT GWB	PT GWB	ACT	---
109A	TOILET	FT-1	CTPTD, GWB	CTPTD, GWB	CTPTD, GWB	CTPTD, GWB	ACT	---
110	CLASSROOM	VCT	PT GWB	PT GWB	PT GWB	PT GWB	ACT	---
110A	TOILET	FT-1	CTPTD, GWB	CTPTD, GWB	CTPTD, GWB	CTPTD, GWB	ACT	---
111	TOILET	FT-1	CTPTD, GWB	CTPTD, GWB	CTPTD, GWB	CTPTD, GWB	ACT	---
112	CLASSROOM	VCT	PT GWB	PT GWB	PT GWB	PT GWB	ACT	---
112A	TOILET	FT-1	CTPTD, GWB	CTPTD, GWB	CTPTD, GWB	CTPTD, GWB	ACT	---
113	TOILET	FT-1	CTPTD, GWB	CTPTD, GWB	CTPTD, GWB	CTPTD, GWB	ACT	---
114	SPEECH	VCT	PT GWB	PT GWB	PT GWB	PT GWB	ACT	---
115	IF	VCT	CTPTD, GWB	CTPTD, GWB	CTPTD, GWB	CTPTD, GWB	ACT	---
116	CLASSROOM	VCT	PT GWB	PT GWB	PT GWB	PT GWB	ACT	---
116A	TOILET	FT-1	CTPTD, GWB	CTPTD, GWB	CTPTD, GWB	CTPTD, GWB	ACT	---
117	SECT	VCT	CTPTD, GWB	CTPTD, GWB	CTPTD, GWB	CTPTD, GWB	ACT	---
118	CLASSROOM	VCT	PT GWB	PT GWB	PT GWB	PT GWB	ACT	---
118A	TOILET	FT-1	CTPTD, GWB	CTPTD, GWB	CTPTD, GWB	CTPTD, GWB	ACT	---
119	CLASSROOM	VCT	PT GWB	PT GWB	PT GWB	PT GWB	ACT	---
119A	TOILET	FT-1	CTPTD, GWB	CTPTD, GWB	CTPTD, GWB	CTPTD, GWB	ACT	---
120	LEARNING	VCT	PT GWB	PT GWB	PT GWB	PT GWB	ACT	---
121	CLASSROOM	VCT	PT GWB	PT GWB	PT GWB	PT GWB	ACT	---
121A	TOILET	FT-1	CTPTD, GWB	CTPTD, GWB	CTPTD, GWB	CTPTD, GWB	ACT	---
121B	CLOSET	VCT	CTPTD, GWB	CTPTD, GWB	CTPTD, GWB	CTPTD, GWB	ACT	---
122	READING	VCT	PT GWB	PT GWB	PT GWB	PT GWB	ACT	---
123	CLASSROOM	VCT	PT GWB	PT GWB	PT GWB	PT GWB	ACT	---
123A	TOILET	FT-1	CTPTD, GWB	CTPTD, GWB	CTPTD, GWB	CTPTD, GWB	ACT	---
124	CLASSROOM	VCT	PT GWB	PT GWB	PT GWB	PT GWB	ACT	---
124A	TOILET	FT-1	CTPTD, GWB	CTPTD, GWB	CTPTD, GWB	CTPTD, GWB	ACT	---
125	TOILET	FT-1	CTPTD, GWB	CTPTD, GWB	CTPTD, GWB	CTPTD, GWB	ACT	---
126	PLAYROOM	RUBBER TILE FLOORING	PT GWB	PT GWB	PT GWB	PT GWB	2X2 TECTUM W/ HOLD DOWN CLIPS	---
126A	CUST	SEAMLESS RESINOUS FLOORING	PT GWB	PT GWB	PTD, GWB	PT GWB	SCRUBABLE ACT	---
126B	RECEIVING	SEAMLESS RESINOUS FLOORING	PT GWB	PT GWB	PTD, GWB	PT GWB	ACT	---
126C	KITCHEN	SEAMLESS RESINOUS FLOORING	PT GWB	PT GWB	PTD, GWB	PT GWB	SCRUBABLE ACT	---
127	TOILET	FT-1	CTPTD, GWB	CTPTD, GWB	CTPTD, GWB	CTPTD, GWB	ACT	---
128	CONFERENCE	VCT	PT GWB	PT GWB	PT GWB	PT GWB	ACT	---
128A	TOILET	FT-1	CTPTD, GWB	CTPTD, GWB	CTPTD, GWB	CTPTD, GWB	ACT	---
130	COUNSELOR	VCT	PT GWB	PT GWB	PT GWB	PT GWB	ACT	---
131	STAFF ROOM	VCT	PT GWB	PT GWB	PT GWB	PT GWB	ACT	---
133	RECEPTION	VCT	PT GWB	PT GWB	PT GWB	PT GWB	ACT	---
135	PRINCIPALS	VCT	PT GWB	PT GWB	PT GWB	PT GWB	ACT	---
137	NURSE	VCT	PT GWB	PT GWB	PT GWB	PT GWB	ACT	---
139	STOR	VCT	PT GWB	PT GWB	PT GWB	PT GWB	ACT	---
SP	SPRINKLER	VCT	PT GWB	PT GWB	PT GWB	PT GWB	ACT	---
V01	VESTIBULE	RUBBER TILE	PT GWB	PT GWB	PT GWB	PT GWB	ACT	---

DOOR OPENING NOTES

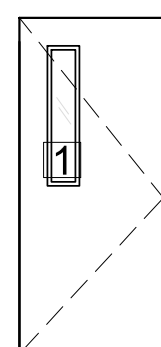
- ALL KEYING SHALL MATCH OWNER'S CURRENT KEY SYSTEM.
- EGRESS DOORS SHALL HAVE PANIC EXIT DEVICES VON DUPRIN, CD-89-L, OR APPROVED EQUAL.
- CLASSROOMS, OFFICES, STORAGE AND UTILITY ROOMS SHALL RECEIVE CYLINDRICAL LOCKSETS BY SCHLAGE ND SERIES, OR APPROVED EQUAL.
- ALL INTERIOR DOORS SHALL BE SOLID CORE WOOD DOORS WITH WOOD VENEER AND CLEAR SATIN FINISH.
- ALL EXTERIOR ENTRANCE DOORS SHALL BE WIDE STILE ALUMINUM.
- ALL EXTERIOR UTILITY DOORS SHALL BE FRP WITH METAL EDGE.



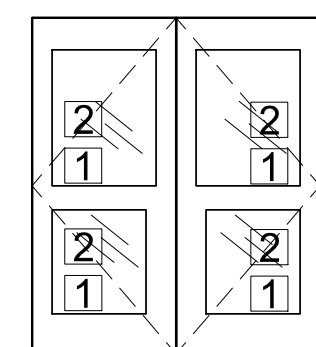
TYPICAL ADMIN. DOOR

1 GLASS TYPE = 1/4" TEMPERED GLASS

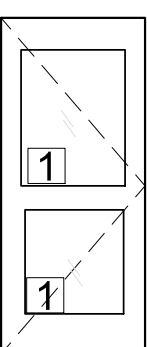
2 GLASS TYPE = 1" INSULATED LOW-E GLASS, WITH 1/4" TEMPERED AT BOTH PANES AND 1/2" AIR SPACE.



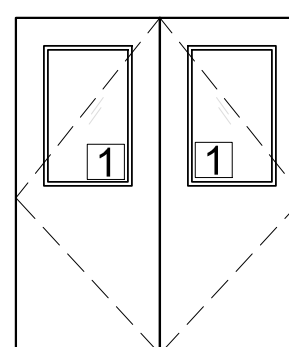
TYPICAL CLASSROOM DOOR



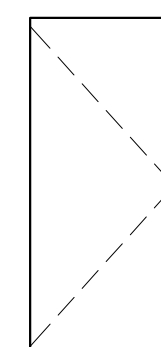
TYPICAL ENTRANCE, HALLWAY DOOR



EGRESS DOOR

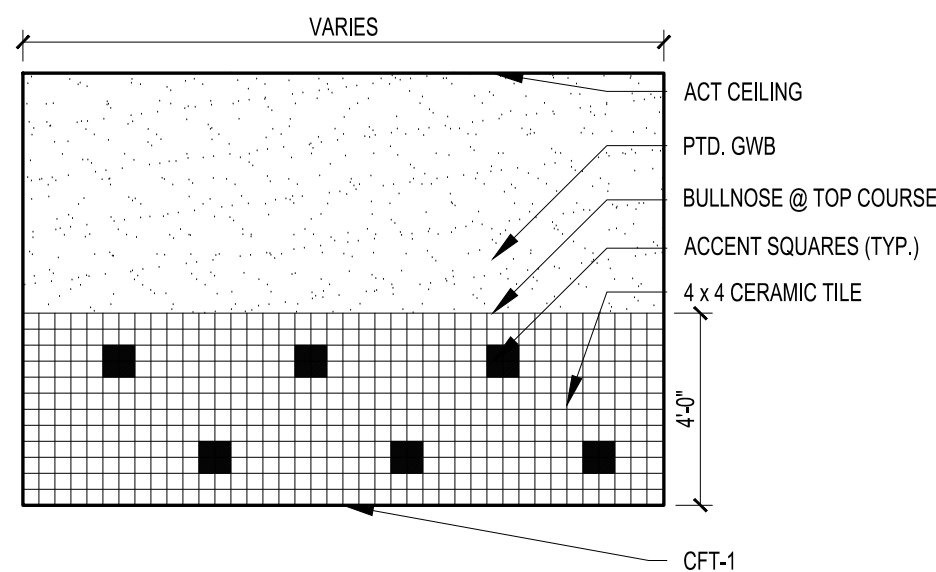


PLAYROOM DOOR

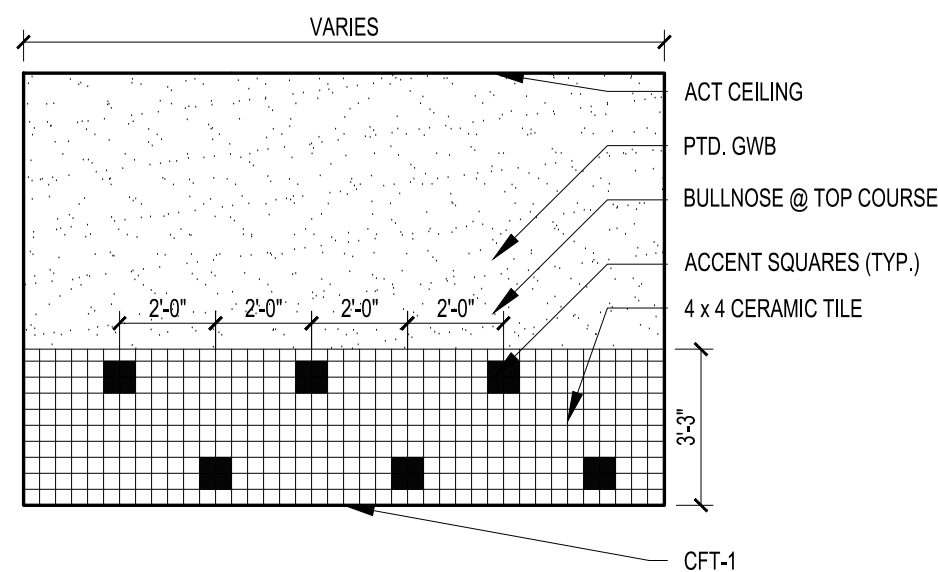


BATHROOM AND UTILITY DOORS

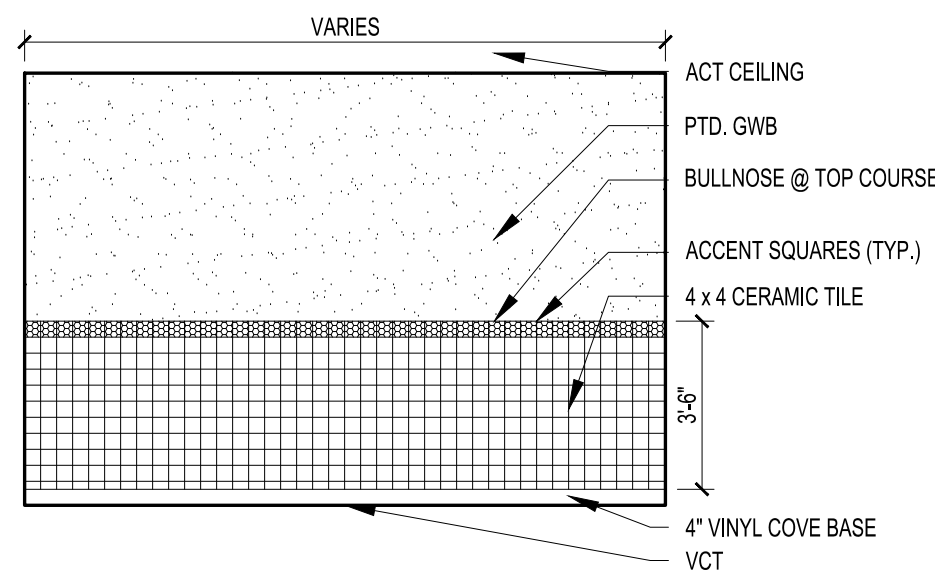
CHILDRENS TOILET ROOM TILE SCHEDULE	
CT FIELD TILE	■
ACCENT SQUARES	■
GROUT 1	
CERAMIC FLOOR TILE 1	



ADULT TOILET ROOM TILE SCHEDULE	
CT FIELD TILE	■
ACCENT SQUARES	■
GROUT 1	
CERAMIC FLOOR TILE 1	



TYPICAL CORRIDOR TILE SCHEDULE	
CT FIELD TILE	■
TOP 4 X 4 ACCENT BULLNOSE	■
GROUT 2	
VCT	





GENERAL:

- STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL, CIVIL, LANDSCAPE, AND SHOP DRAWINGS AND SPECIFICATIONS.
- ALL DIMENSIONS AND CONDITIONS MUST BE VERIFIED IN THE FIELD AND ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT BEFORE PROCEEDING WITH THE AFFECTED PORTION OF THE WORK.
- SHOP DRAWINGS FOR REINFORCING STEEL (INCLUDING ALL ACCESSORIES), AND POUR SCHEDULES SHALL BE SUBMITTED TO THE ARCHITECT AND A STAMPED ACCEPTANCE RECEIVED BEFORE FABRICATION CAN PROCEED.
- A COMPLETE CONCRETE SLAB-ON-GRADE PLACEMENT SCHEDULE SHALL BE SUBMITTED TO THE ARCHITECT AND A STAMPED REVIEWED RECEIVED BEFORE ANY CONCRETE PLACEMENT CAN BE MADE.
- UNLESS OTHERWISE NOTED, DETAILS SHOWN ON ANY DRAWINGS ARE TO BE CONSIDERED TYPICAL FOR ALL SIMILAR CONDITIONS.
- U.O.N. = UNLESS OTHERWISE NOTED.
- REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS AND/OR ELEVATIONS NOT SHOWN ON THE STRUCTURAL DRAWINGS.
- IN CASE OF CONFLICT AMONG CONTRACT DOCUMENTS (A. CONTRACT DOCUMENTS AND SPECIFICATIONS), THE MORE SPECIFIC AND LOCALIZED INFORMATION IN THE FOLLOWING ASCENDING ORDER SHALL GOVERN: SPECIFICATIONS, NOTES, PLANS, SCHEDULES AND DETAILS.
- THE CONTRACTOR SHALL PROVIDE ALL NECESSARY TEMPORARY SHORING AND BRACING FOR THE BUILDING DURING THE ENTIRE CONSTRUCTION.
- ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE LATEST EDITIONS (UNLESS NOTED OTHERWISE) OF THE FOLLOWING BUILDING CODES AND STANDARDS:
  - THE COMMONWEALTH OF MASSACHUSETTS STATE BUILDING CODE, 8TH EDITION
  - "ASBC" - CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES
  - ACI 318 - BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE

DESIGN LOADS PER MASSACHUSETTS STATE BUILDING CODE, (8TH EDITION)

1. ROOFS:  
GROUND SNOW LOAD,  $P_g = 50$  PSF  $C_e = 1.0$   $I_s = 1.1$   $C_t = 1.0$   
DESIGN (FLAT SNOW LOAD),  $P_f = 40$  PSF - DRIFT LOADS PER CODE

- ROOFING ..... 7 PSF  
SUSPENDED SERVICES ..... 5 PSF  
CEILING ..... 4 PSF  
STRUCTURE ..... ACTUAL WEIGHT

2. FLOORS:  
LIVE LOAD:  
CLASSROOMS (U.O.N.) ..... 50 PSF + 20 PSF PARTITIONS  
CORRIDORS ..... 80 PSF  
LOBBIES AND FLEXIBLE OPEN PLAN AREAS ..... 100 PSF  
MECHANICAL AREAS AND LIBRARIES ..... 150 PSF  
SUSPENDED SERVICES ..... 5 PSF  
CEILING ..... 4 PSF  
STRUCTURE ..... ACTUAL WEIGHT

3. PAYING SLABS (SLABS-ON-GRADE):

- LIVE LOADS:  
TYPICAL AREAS ..... 100 PSF  
MECHANICAL ROOMS ..... 150 PSF

4. WIND LOAD:

- BASIC WIND SPEED,  $V = 100$  MPH  $I_w = 1.15$  OCCUPANCY CATEGORY = III  
EXPOSURE CATEGORY = B  
INTERNAL PRESSURE COEFFICIENT,  $C_{pi} = +0.10$   
COMPONENTS AND JOINTS: LOADS PER TABLES BELOW:

5. SEISMIC LOAD:  
 $I_e = 1.25$   $S_s = 0.33$   $S_1 = 0.075$  SITE CLASS: ..... D  
 $S_{ds} = 0.338$   $S_{d1} = 0.12$   
SEISMIC DESIGN CATEGORY = B  
BASIC SEISMIC FORCE RESISTING SYSTEM: TO BE DETERMINED BY SUPER STRUCTURE MANUFACTURER.  
 $C_d = TBD$   $R = TBD$

STRUCTURAL ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE PROCEDURE

- PER ASCE 7 CH. 12.8  
SEISMIC BASE SHEAR,  $V = C_s \cdot W$   
 $C_s = TBD$   $W = TBD$

6. SOIL LOADS:

- A. EQUIVALENT FLUID PRESSURES:  
ACTIVE: 42 PCF  
AT-REST: 65 PCF  
PASSIVE: 413 PCF  
B. FRICTION COEFFICIENT: 0.50  
C. ALLOWABLE SLOPE: 2H:1V

QUALITY ASSURANCE:

- THE OWNER SHALL EMPLOY AND PAY FOR THE SERVICES OF AN INDEPENDENT TESTING AGENCY TO PROVIDE QUALITY ASSURANCE TESTING AND INSPECTIONS FOR WORK SPECIFIED IN CHAPTER 17 OF THE COMMONWEALTH OF MASSACHUSETTS STATE BUILDING CODE, 8TH EDITION, THE TESTING AGENCY SHALL BE LICENSED IN THE COMMONWEALTH OF MASSACHUSETTS AND ALL TESTING AND INSPECTIONS SHALL BE PERFORMED UNDER THE SUPERVISION OF AN ENGINEER REGISTERED IN THE COMMONWEALTH OF MASSACHUSETTS.
- FAILURE OF QUALITY ASSURANCE TESTING AND INSPECTIONS TO DETECT ANY DEFECTIVE WORK OR MATERIAL SHALL NOT IN ANY WAY PREVENT LATER REJECTION WHEN SUCH DEFECT IS NOTED, NOR SHALL IT OBLIGATE THE OWNER'S REPRESENTATIVE FOR FINAL ACCEPTANCE.
- THE TESTING AGENCY AND ITS REPRESENTATIVES ARE NOT AUTHORIZED TO REVOKE, ALTER, RELAX, ENLARGE OR RELEASE ANY PORTION OF THE WORK, PERFORM ANY DUTIES OF THE CONTRACTOR OR BE A PARTY TO SCHEDULING OF WORK.
- RECORDS OF INSPECTIONS SHALL BE KEPT AVAILABLE TO THE BUILDING OFFICIAL DURING PROGRESS OF THE WORK AND FOR TWO YEARS AFTER COMPLETION OF THE PROJECT. RECORDS SHALL BE PRESERVED BY THE INDEPENDENT TESTING AGENCY.
- CONTRACTOR SHALL SUBMIT A SCHEDULE OF SHOP DRAWING SUBMITTAL DATES AT LEAST 30 DAYS PRIOR TO FIRST SUBMITTAL. FAILURE TO SUBMIT DRAWINGS ON DESIGNATED DATE MAY IMPACT REVIEW SCHEDULE.

FOUNDATIONS AND SUBGRADE PREPARATION:

- ALL FOUNDATIONS SHALL BEAR ON COMPETENT NATURAL SOIL OR COMPACTED STRUCTURAL FILL HAVING A MINIMUM ALLOWABLE SOIL BEARING CAPACITY OF 3000 PSF. ALL FILLING AND GROUND PREPARATION WORK SHALL BE DONE UNDER THE SUPERVISION OF A REGISTERED GEOTECHNICAL ENGINEER WHO UPON COMPLETION OF THE GROUND PREPARATION WORK SHALL CERTIFY THAT THE SUBGRADE IS CAPABLE OF PROVIDING THE REQUIRED ALLOWABLE BEARING CAPACITY. SUBMIT REPORT FOR RECORD.
- THE ESTIMATED ELEVATION OF THE BOTTOM OF EACH FOOTING IS INDICATED THUS (Z-7), THE BOTTOM OF EACH EXTERIOR FOOTING SHALL BE A MINIMUM OF 4'-0" BELOW ADJACENT FINISHED GRADE.
- NO BACKFILL SHALL BE PLACED AGAINST FOUNDATION WALLS RETAINING EARTH UNLESS WALLS ARE SUFFICIENTLY BRACED TO PREVENT MOVEMENT OR STRUCTURAL DAMAGE AND THE SLAB-ON-GRADE IS IN PLACE.
- FOR TYPICAL SLAB-ON-GRADE CONSTRUCTION AND UNLESS OTHERWISE RECOMMENDED BY A REGISTERED GEOTECHNICAL ENGINEER OR DIRECTED IN THE GEOTECHNICAL REPORT, ALL STRUCTURAL FILL PLACED WITHIN THE FOOTPRINT OF THE PROPOSED ADDITION FOR SUPPORT OF FOOTINGS AND/OR THE SLAB-ON-GRADE SHALL BE PLACED IN LIFTS HAVING A MAXIMUM THICKNESS OF 6" INCHES AND BE COMPACTED TO A MINIMUM OF 95 PERCENT OF ITS MAXIMUM MODIFIED PROCTOR DRY DENSITY. STRUCTURAL FILL SHALL CONSIST OF SUITABLE EXCAVATED ON-SITE FILL OR THE NATURAL SAND DEPOSIT, OR AN OFF-SITE WELLY GRADED, NATURAL SAND AND GRAVEL CONTAINING LESS THAN 8% PASSING THE No. 200 SIEVE.

- UNLESS OTHERWISE RECOMMENDED BY A REGISTERED GEOTECHNICAL ENGINEER OR DIRECTED IN THE GEOTECHNICAL REPORT, ALL EXISTING SITE IMPROVEMENTS, TOPSOIL AND FILL, AND EXISTING UNDERGROUND UTILITIES WITHIN THE FOOTPRINT OF THE PROPOSED ADDITION SHALL BE REMOVED.
- PROVIDE PERIMETER FOUNDATION DRAINS WHERE THE EXTERIOR FINISHED GRADE IS ABOVE THE GROUND LEVEL FINISHED FLOOR ELEVATION. SEE TYPICAL DETAILS.
- FOR CONSTRUCTION UNDER WINTER CONDITIONS, FOUNDATION AND FLOOR SLABS SHALL BE PROTECTED FROM FREEZING TEMPERATURES UNTIL THE BUILDING IS ENCLOSED AND HEATED.
- THE DESIGN AND EXECUTION OF ALL TEMPORARY EARTH RETENTION SYSTEMS DURING CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.
- NO CONCRETE SHALL BE PLACED IN WATER, ICE, FROST, OR ON FROZEN SUBGRADE MATERIAL. PRECAUTIONS SHALL BE TAKEN BY THE CONTRACTOR TO PREVENT FROST FROM PENETRATING ANY FOOTING OR SUBGRADE MATERIAL BEFORE AND AFTER CONCRETE PLACEMENT UNTIL SUCH SUBGRADE MATERIAL IS FULLY PROTECTED BY THE PERMANENT STRUCTURAL SYSTEM.
- FOUNDATIONS SHALL BE CENTERED ON GRID INTERSECTIONS, U.O.N.
- UNLESS OTHERWISE NOTED, STRIP FOOTINGS BELOW FOUNDATION WALLS (BETWEEN COLUMN SPREAD FOOTINGS) SHALL BE AT LEAST 3'-0" WIDE X 1'-0" DEEP REINFORCED WITH (3#5S BOTTOM CONT.), THE TOP ELEVATION OF THE STRIP FOOTING SHALL MATCH THE TOP ELEVATION OF THE ADJACENT COLUMN STRIP FOOTING, U.O.N.
- ALL FOUNDATION RECOMMENDATIONS ARE BASED ON TYPICAL ASSUMPTIONS AND MUST BE CONFIRMED BY THE CONTRACTOR.
- A LICENSED GEOTECHNICAL ENGINEER SHALL OBSERVE THE EXPOSED SUBGRADES PRIOR TO FILL AND CONCRETE PLACEMENT TO VERIFY THAT THE EXPOSED BEARING MATERIALS ARE SUITABLE FOR THE DESIGN SOIL BEARING PRESSURE INDICATED IN NOTE #1. ALL OTHER DESIGN ASSUMPTIONS LISTED ABOVE MUST BE VERIFIED IN THE FIELD PRIOR TO CONSTRUCTION.

CONCRETE - (CAST-IN-PLACE)

- CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS. ALL CONCRETE SHALL BE NORMAL WEIGHT (150 PCF MAXIMUM), EXCEPT LIGHTWEIGHT (115 PCF MAXIMUM) CONCRETE SHALL BE USED ON ROOF DECKING SUPPORTING MECHANICAL UNITS.
- ALL REINFORCING BARS SHALL CONFORM TO ASTM A615, GRADE 60 (DEFORMED), AND SHALL BE FREE FROM LOOSE RUST AND SCALE.
- LAP ALL CONTINUOUS BARS 48 BAR DIAMETERS (MINIMUM) OR PER THE DEVELOPMENT AND SPLICE TABLE (WHICHEVER IS GREATER).
- ALL WELDED WIRE FABRIC (W.W.F.) SHALL CONFORM TO ASTM A186 (WITH A MINIMUM ULTIMATE TENSILE STRENGTH OF 70 KSI). LAP 2 SQUARES AT ALL JOINTS AND @ 3'-0" ON CENTER.
- CLEAR CONCRETE PROTECTION FOR REINFORCING: (UNLESS OTHERWISE NOTED).
  - FOOTINGS (AND OTHER CONCRETE ELEMENTS CAST AGAINST EARTH): 3"
  - FOUNDATION WALLS (AND OTHER CONCRETE ELEMENTS EXPOSED TO EARTH): 2"
  - SLABS-ON-GRADE: 1 1/2" FROM TOP (U.O.N.)
  - PIERS AND PILASTERS: 2" TO TIES
- NO BARS SHALL BE CUT OR OMITTED IN THE FIELD BECAUSE OF SLEEVES, DUCT OPENINGS OR RECESSES. BARS MAY BE MOVED ASIDE WITHOUT CHANGE IN LEVEL WITH THE APPROVAL OF THE ARCHITECT.
- NO PIPES SHALL PASS THROUGH CONCRETE WITHOUT THE PERMISSION OF THE ARCHITECT. STEEL PIPE SLEEVES SHALL BE PROVIDED AND SPACED A MINIMUM OF THREE PIPE DIAMETERS APART. ALL OTHER SLEEVE LOCATIONS MUST BE SUBMITTED FOR REVIEW. IN NO CASE SHALL SLEEVES BE PLACED IN CONCRETE BEAMS WITHOUT WRITTEN ACCEPTANCE FROM THE STRUCTURAL ENGINEER.

- ALL CONDUIT SHALL RUN ABOVE BOTTOM REINFORCING, BELOW TOP REINFORCING, AND INSIDE BEAM STRUTS AND WALL REINFORCING. LINES OF CONDUIT SHALL BE SPACED NOT CLOSER THAN THREE CONDUIT DIAMETERS ON CENTER. MAXIMUM SIZE OF CONDUIT IN SLAB SHALL BE EQUAL TO 1/3 OF THE SLAB OR WALL THICKNESS.
- ALL KEYS SHALL BE 2" BY 4" WITH BEVELED SIDES (UNLESS OTHERWISE NOTED).
- CONSTRUCTION JOINTS SHALL BE DETERMINED BY THE CONTRACTOR WITH LIMITS AS INDICATED ON THE DRAWINGS. ALL CONSTRUCTION JOINTS SHALL BE FORMED WITH A STANDARD KEY AND ALL REINFORCING EXTENDED 48 BAR DIAMETERS.
- THE CONTRACTOR SHALL SUBMIT DRAWINGS SHOWING THE COMPLETE LAYOUTS OF ALL CONTROL JOINTS, CONSTRUCTION JOINTS, AND ISOLATION JOINTS FOR SLABS-ON-GRADE. CONCRETE PLACEMENT SHALL NOT PROCEED UNTIL THESE DRAWINGS HAVE BEEN REVIEWED BY THE ARCHITECT. SEE PLAN FOR LOCATION RULES AND LIMITATIONS.
- DETAILS NOT SHOWN ON THE DRAWINGS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE ACI DETAILING MANUAL 315.
- SUPPORT BARS FOR SLAB REINFORCING SHALL BE #5 OR GREATER, AND SHALL BE SPACED NOT MORE THAN 4'-0" O.C. SUPPORT BARS AND ENDS OF MAIN REINFORCING BARS SHALL NOT EXTEND MORE THAN 1'-0" PAST THE OUTERMOST CHAIR OR SUPPORT BAR.
- ALL REINFORCING ACCESSORIES FOR EXPOSED SURFACES SHALL HAVE UPTURNED LEGS AND BE PLASTIC DIPPED AFTER FABRICATION. ACCESSORIES FOR REINFORCING STEEL SHALL BE IN ACCORDANCE WITH THE ACI LATEST EDITION.
- A PLASTIC "DOUGHNUT" TYPE OF SPACER SHALL BE PROVIDED FOR ALL VERTICAL COLUMNPIER REINFORCING STEEL, IN ORDER TO MAINTAIN MINIMUM CLEARANCE.
- PROVIDE ADDITIONAL REINFORCING AT ALL CONSTRUCTION JOINTS, AS REQUIRED, ACCORDING TO THE APPLICABLE CONSTRUCTION JOINT DETAILS SHOWN ON THESE DRAWINGS.
- UNLESS OTHERWISE NOTED, PROVIDE #4 @ 12" DOWNELS AND (1#4) CONT. IN ALL CONCRETE CURBS. FOR SIZE AND LOCATION OF CURBS, REFER TO ARCHITECTURAL DRAWINGS.
- ALL DOWNELS FOR COLUMN AND WALL REINFORCEMENT SHALL MATCH LAPPING BAR SIZE AND SPACING, U.O.N.
- ALUMINUM CONDUITS AND PIPES SHALL NOT BE EMBEDDED IN STRUCTURAL CONCRETE UNLESS EFFECTIVELY COATED OR COVERED TO PREVENT ALUMINUM-CONCRETE REACTION OR ELECTROLYTIC ACTION BETWEEN ALUMINUM AND STEEL.

CONCRETE - (CAST-IN-PLACE) (CONTIN.)

- SAMPLES FOR STRENGTH TESTS OF EACH CLASS OF CONCRETE PLACED EACH DAY SHALL BE TAKEN NOT LESS THAN ONCE A DAY, NOR LESS THAN ONCE FOR EACH 150 CUBIC YARDS OF CONCRETE, NOR LESS THAN ONCE FOR EACH 5000 SQUARE FEET OF SURFACE AREA FOR SLABS AND WALLS.
- UNLESS OTHERWISE NOTED AND WHERE REQUIRED, ALL PLASTERS AND PIERS SHALL BE 2 1/2" THICK AND REINFORCED WITH (8#6) VERTICAL AND 2 SETS OF #3 TIES @ 12".
- ALL CONCRETE EXPOSED TO WEATHER SHALL BE AIR-ENTRAINED (5% AIR).
- CONCRETE SHALL BE CAST MONOLITHICALLY, EXCEPT AS INDICATED ON THE DRAWINGS.

POST-INSTALLED ANCHORS:

- EXCEPT WHERE INDICATED ON THE DRAWINGS, POST-INSTALLED ANCHORS SHALL CONSIST OF THE FOLLOWING ANCHOR TYPES AS PROVIDED BY HILTI, INC. CONTACT HILTI AT (800) 679-8000 FOR PRODUCT RELATED QUESTIONS.
  - WHERE PLANS, SECTIONS, OR DETAILS REQUIRE ANCHORAGE TO CONCRETE OR SOLID GROUTED MASONRY WITH ADHESIVE ANCHORS, USE THE HILTI HIT-HY 200 SAFE SET SYSTEM WITH HILTI HOLLOW DRILL BIT (TE-CD OR TE-YD) WITH HASE T-THREADED RODS (SEE NOTE #2 BELOW) PER ICC ESR-1817, OR APPROVED EQUAL.
  - WHERE PLANS, SECTIONS, OR DETAILS REQUIRE ANCHORAGE TO CONCRETE OR SOLID GROUTED MASONRY WITH MECHANICAL OR EXPANSION ANCHORS, USE HILTI KWIK BOLT-TZ EXPANSION ANCHORS PER ICC ESR-1917.
- UNLESS OTHERWISE NOTED, threaded rod anchors shall conform to HAS-E STANDARD IS 898 CLASS 8.
- ANCHOR CAPACITY USED IN DESIGN SHALL BE BASED ON THE TECHNICAL DATA PUBLISHED BY HILTI OR SUCH OTHER METHOD AS APPROVED BY THE STRUCTURAL ENGINEER OF RECORD. SUBSTITUTION REQUESTS FOR ALTERNATE PRODUCTS MUST BE APPROVED IN WRITING BY THE STRUCTURAL ENGINEER OF RECORD PRIOR TO USE. CONTRACTOR SHALL PROVIDE CALCULATIONS DEMONSTRATING THAT THE SUBSTITUTED PRODUCT IS CAPABLE OF ACHIEVING THE PERFORMANCE VALUES OF THE SPECIFIED PRODUCT. SUBSTITUTIONS WILL BE EVALUATED BY THEIR HAVING AN ICC ESR SHOWING COMPLIANCE WITH THE RELEVANT BUILDING CODE FOR SEISMIC USES, LOAD RESISTANCE, INSTALLATION CATEGORY, AND AVAILABILITY OF COMPREHENSIVE INSTALLATION INSTRUCTIONS. ADHESIVE ANCHOR EVALUATION WILL ALSO CONSIDER CREEP, IN-SERVICE TEMPERATURE AND INSTALLATION TEMPERATURE.

- INSTALL ANCHORS PER THE MANUFACTURER INSTRUCTIONS, AS INCLUDED IN THE ANCHOR PACKAGING.
- OVERHEAD ADHESIVE ANCHORS MUST BE INSTALLED USING THE HILTI PROFIT SYSTEM.
- THE CONTRACTOR SHALL ARRANGE AN ANCHOR MANUFACTURER'S REPRESENTATIVE TO PROVIDE ONSITE INSTALLATION TRAINING FOR ALL OF THEIR ANCHORING PRODUCTS SPECIFIED. THE STRUCTURAL ENGINEER OF RECORD MUST RECEIVE DOCUMENTED CONFIRMATION THAT ALL OF THE CONTRACTOR'S PERSONNEL WHO INSTALL ANCHORS ARE TRAINED PRIOR TO THE COMMENCEMENT OF INSTALLING ANCHORS.
- ANCHOR CAPACITY IS DEPENDANT UPON SPACING BETWEEN ADJACENT ANCHORS AND PROXIMITY OF ANCHORS TO EDGE OF CONCRETE. INSTALL ANCHORS IN ACCORDANCE WITH SPACING AND EDGE CLEARANCES INDICATED ON THE DRAWINGS.
- EXISTING REINFORCING BARS IN THE CONCRETE STRUCTURE MAY CONFLICT WITH EXISTING ANCHOR LOCATIONS. NO EXISTING BARS MAY BE CUT OR REMOVED TO INSTALL ANCHORS. CONTRACTOR MAY RELOCATE ANCHORS TO AVOID EXISTING REINFORCEMENT PROVIDED MAXIMUM SPACING AND EDGE CLEARANCE DISTANCES ARE MAINTAINED.

GENERAL NOTES

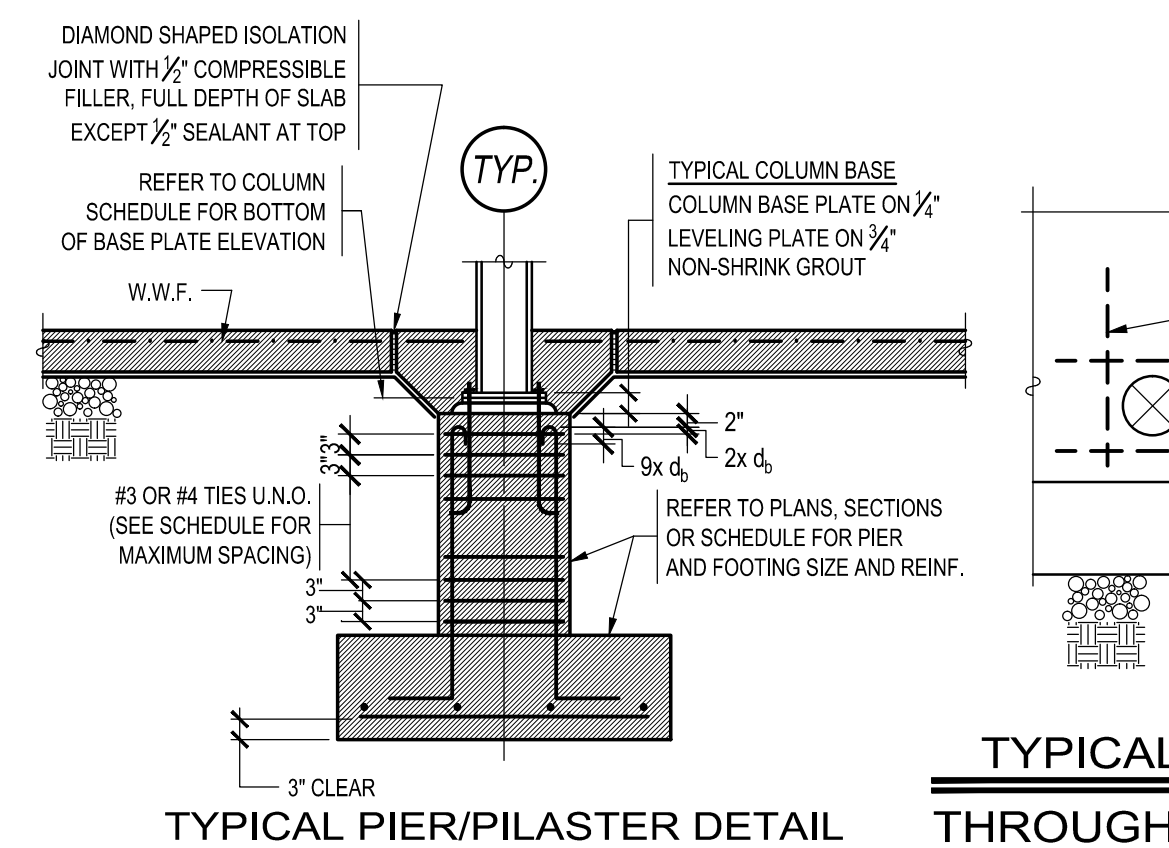
(UNLESS OTHERWISE NOTED IN SPECIFICATIONS)

SHOP DRAWINGS:

- SHOP DRAWINGS ARE DRAWINGS, DIAGRAMS, SCHEDULES, MATERIAL LISTS AND OTHER DATA SPECIFICALLY PREPARED FOR THE WORK FOR THE GENERAL CONTRACTOR OR ANY SUBCONTRACTOR, MANUFACTURER, SUPPLIER OR DISTRIBUTOR TO ILLUSTRATE SOME PORTION OF THE WORK. CONTRACT DRAWINGS ARE NOT TO BE REPRODUCED FOR USE AS SHOP DRAWINGS.
- WHEN APPLICABLE, SHOP DRAWINGS SHALL INCLUDE, BUT NOT BE LIMITED TO: ERECTION PLANS, NOTES AND BRACING DETAILS, ACCESSORIES, CONNECTION DETAILS, JOIST, BEAM AND COLUMN DETAILS, BENDING DETAILS FOR REINFORCING RODS, AND ANY OTHER ITEMS WHICH ARE TYPICAL OF INDUSTRY STANDARD FOR SHOP DRAWING SUBMITTALS. SUBMIT STAMPED STRUCTURAL CALCULATIONS WHERE NOTED ABOVE.
- NO PORTION OF THE WORK REQUIRING SUBMISSION OF A SHOP DRAWING SHALL BE STARTED UNTIL THE SUBMITTAL HAS BEEN SATISFACTORILY REVIEWED BY SOUZA, TRUE AND PARTNERS, INC. (STP) AND ALL OTHER PARTIES INVOLVED. ALL SUCH PORTIONS OF THE WORK SHALL BE IN ACCORDANCE WITH FINAL REVIEWED SUBMITTALS AND THE CONTRACT DOCUMENTS.
- ALL SHOP DRAWINGS SHALL BE SUBMITTED ELECTRONICALLY, UNLESS OTHERWISE NOTED IN THE CONTRACT DOCUMENTS. UNLESS OTHERWISE NOTED IN THE CONTRACT SPECIFICATIONS, THE FOLLOWING SEQUENCE SHALL BE FOLLOWED: MANUFACTURER/CONTRACTOR/ARCHITECT/ENGINEER/ARCHITECT/CONTRACTOR/MANUFACTURER.
- THE CONTRACTOR SHALL REVIEW, APPROVE AND SUBMIT ALL SHOP DRAWINGS REQUIRED BY THE CONTRACT DOCUMENTS IN AN ORDER WHICH IS SEQUENTIAL WITH THE PROGRESS OF THE WORK AND CONSISTANT WITH THE LEAD TIMES RELATED TO THE PRODUCTS. THE SHOP DRAWING SUBMITTAL SCHEDULE SHALL INCLUDE ADEQUATE TIME FOR A COMPLETE AND PROFESSIONAL REVIEW BY ALL PARTIES INVOLVED. IT SHALL BE NOTED THAT THE REVIEW TIME WILL VARY DEPENDING ON THE SIZE AND CONTENT OF THE SUBMITTAL. BY APPROVING AND SUBMITTING SHOP DRAWINGS, THE CONTRACTOR REPRESENTS THAT HE OR SHE HAS VERIFIED ALL MATERIALS, FIELD MEASUREMENTS AND FIELD CONSTRUCTION CRITERIA RELATED THERETO, OR WILL DO SO. IN ADDITION, THIS SHALL REPRESENT THAT HE OR SHE HAS CHECKED AND COORDINATED THE INFORMATION CONTAINED WITHIN SUCH SUBMITTALS WITH THE REQUIREMENTS OF THE WORK AND OF THE CONTRACT DRAWINGS. SOUZA, TRUE AND PARTNERS, INC. RESERVES THE RIGHT TO RETURN ANY SHOP DRAWINGS WHICH ARE JUDGED TO BE "RUBBER STAMP" APPROVED BY THE CONTRACTOR WITHOUT PROPER REVIEW AND EVALUATION.
- ALL SHOP DRAWINGS THAT ARE RECEIVED WITHOUT FIRST BEING REVIEWED AND STAMPED BY THE CONTRACTOR WILL BE RETURNED UNREVIEWED.
- THE CONTRACTOR SHALL NOT BE RELIEVED OF RESPONSIBILITY FOR ANY DEVIATION FROM THE REQUIREMENTS OF THE CONTRACT DOCUMENTS AS A RESULT OF STP'S (SOUZA, TRUE AND PARTNERS, INC.) REVIEW OF THE SHOP DRAWINGS UNLESS THE CONTRACTOR HAS SPECIFICALLY INFORMED STP, IN WRITING, OF SUCH DEVIATION AT THE TIME OF SUBMISSION AND STP HAS GIVEN WRITTEN ACCEPTANCE TO THE SPECIFIC DEVIATION. THE CONTRACTOR SHALL NOT BE RELIEVED FROM RESPONSIBILITY FOR ERRORS OR OMISSIONS IN THE SHOP DRAWINGS BY STP'S REVIEW THEREOF.
- THE CONTRACTOR SHALL DRAW ATTENTION TO ALL DEVIATIONS FROM THE CONTRACT DRAWINGS AND INCLUDE REASONS FOR SUCH DEVIATIONS WITH THE SUBMITTED SHOP DRAWINGS. IN ADDITION, THE CONTRACTOR SHALL DIRECT SPECIFIC ATTENTION, IN WRITING OR ON REQUESTED SHOP DRAWINGS, TO REVISIONS OTHER THAN THOSE REQUESTED BY STP ON PREVIOUS SUBMITTALS.
- REFER TO SAMPLE SHOP DRAWING STAMP AND ACTION LEGEND (BELOW) FOR FURTHER CLARIFICATION.

ACTION LEGEND

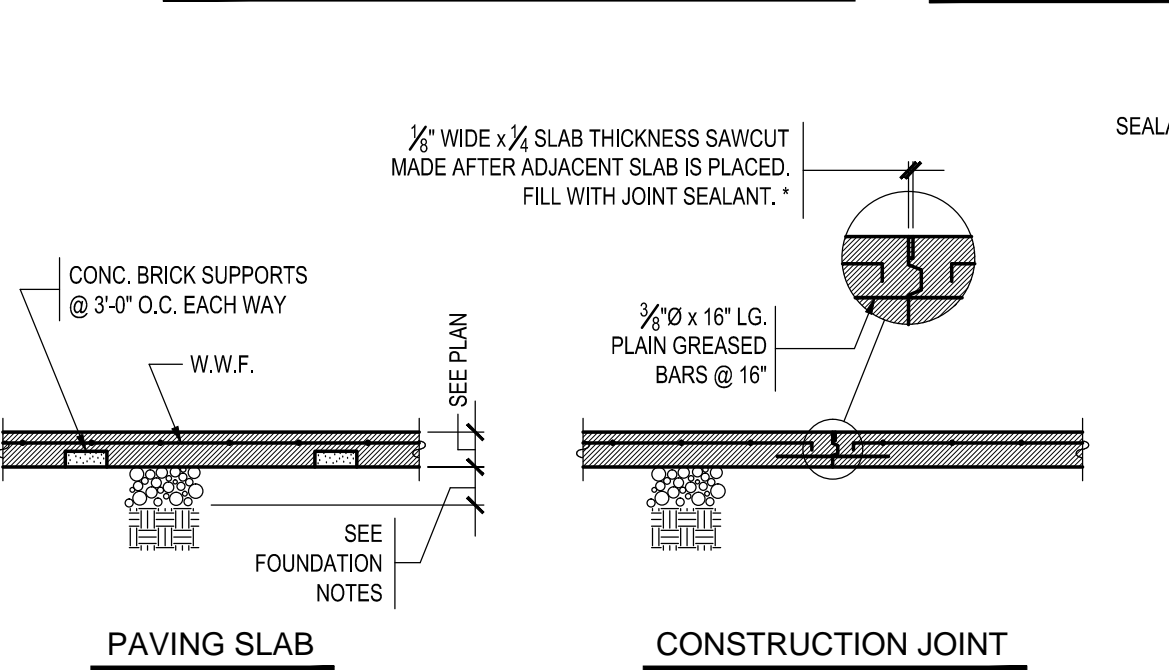
- SUBMITTAL ACCEPTED  
MATERIALS, SIZES, GENERAL ARRANGEMENT AND DETAILS SHOWN ON THIS DRAWING APPEAR TO BE IN SUBSTANTIAL COMPLIANCE WITH THE INTENT OF THE CONTRACT DRAWINGS.
- SUBMITTAL ACCEPTED, SUBJECT TO NOTATIONS  
CORRECTIONS NOTED WILL BRING THIS SUBMITTAL INTO SUBSTANTIAL COMPLIANCE WITH THE MATERIALS, SIZES, GENERAL ARRANGEMENTS AND DETAILS NOTED IN THE CONTRACT DOCUMENTS. PROVIDED THAT NO OTHER MODIFICATIONS ARE NECESSARY, RESUBMITTAL IS NOT REQUIRED. REVIEW IS COMPLETE AND ALL CORRECTIONS ARE DEEMED OBVIOUS WITH NO AMBIGUITY.
- SUBMITTAL ACCEPTED IN PART, RESUBMIT ITEMS NOTED  
CORRECTIONS NOTED WILL BRING THIS SUBMITTAL INTO SUBSTANTIAL COMPLIANCE WITH THE MATERIALS, SIZES, GENERAL ARRANGEMENTS AND DETAILS NOTED IN THE CONTRACT DOCUMENTS. PORTIONS OF THE DRAWINGS MUST BE REVISED AND REVIEWED PRIOR TO FABRICATION.
- SUBMITTAL NOT ACCEPTED, REVISE, REVIEW AND RESUBMIT  
FABRICATION SHALL NOT TAKE PLACE PRIOR TO THIS DRAWING BEING REVISED, RESUBMITTED AND REVIEWED BY SOUZA, TRUE AND PARTNERS, INC., AND ALL OTHER PARTIES INVOLVED. DETAILS OR ITEMS NOTED BY THE REVIEWER REQUIRE FURTHER CLARIFICATION.
- RESUBMITTED SHOP DRAWINGS THAT WERE PREVIOUSLY ACCEPTED WILL NOT BE REVIEWED UNLESS REVISIONS ARE CLOUSED. ONLY CLOUSED ITEMS WILL BE REVIEWED.
- CONTRACTOR SHALL SUBMIT A SCHEDULE OF SHOP DRAWING SUBMITTAL DATES AT LEAST 30 DAYS PRIOR TO FIRST SUBMITTAL. FAILURE TO SUBMIT DRAWINGS ON DESIGNATED DATE MAY IMPACT REVIEW SCHEDULE.



TYPICAL PIER/PIASTER DETAIL

TYPICAL DETAIL AT PIPES PASSING THROUGH/UNDER FOUNDATION WALLS

TYPICAL CONSTRUCTION JOINT DETAILS



PAVING SLAB

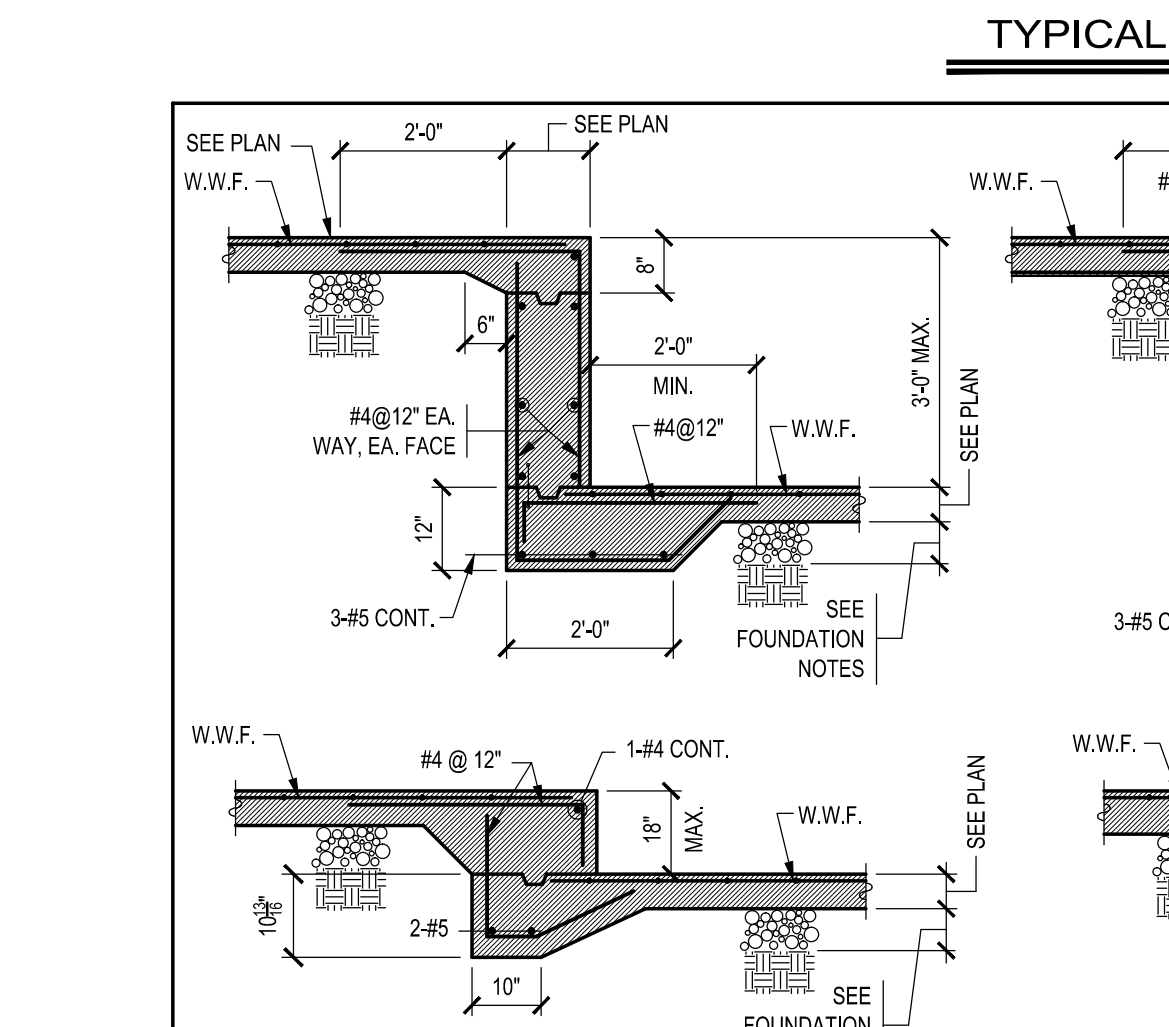
CONSTRUCTION JOINT

TYPICAL PAVING SLAB DETAILS

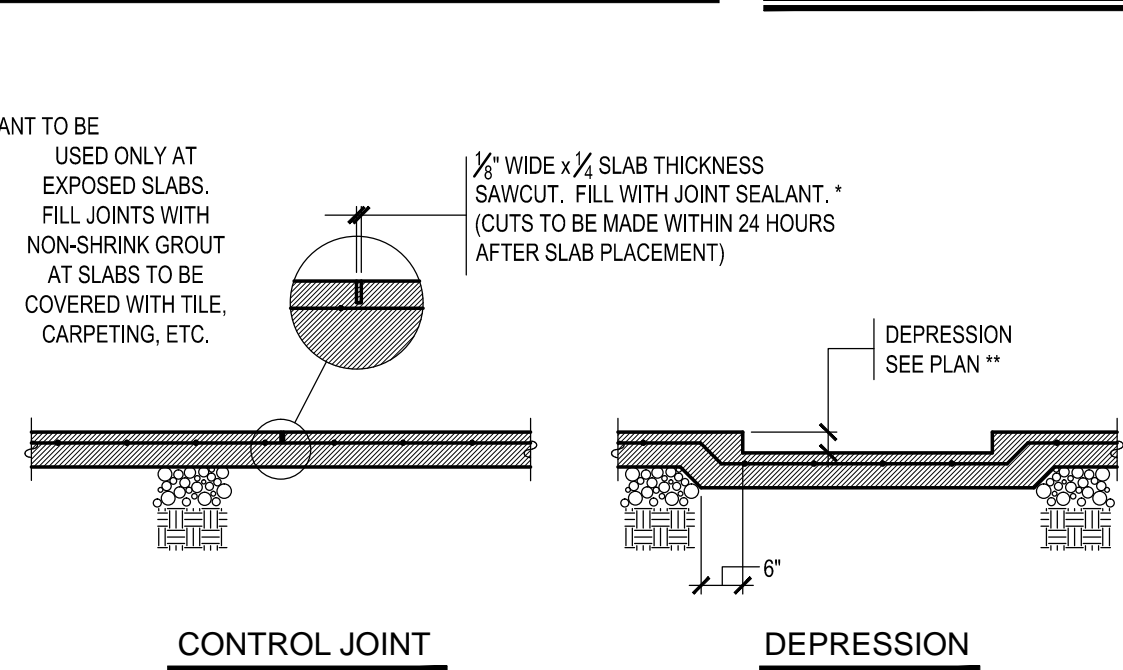
CONTROL JOINT

DEPRESSION

INSIDE CORNER SLAB EDGE PLAN



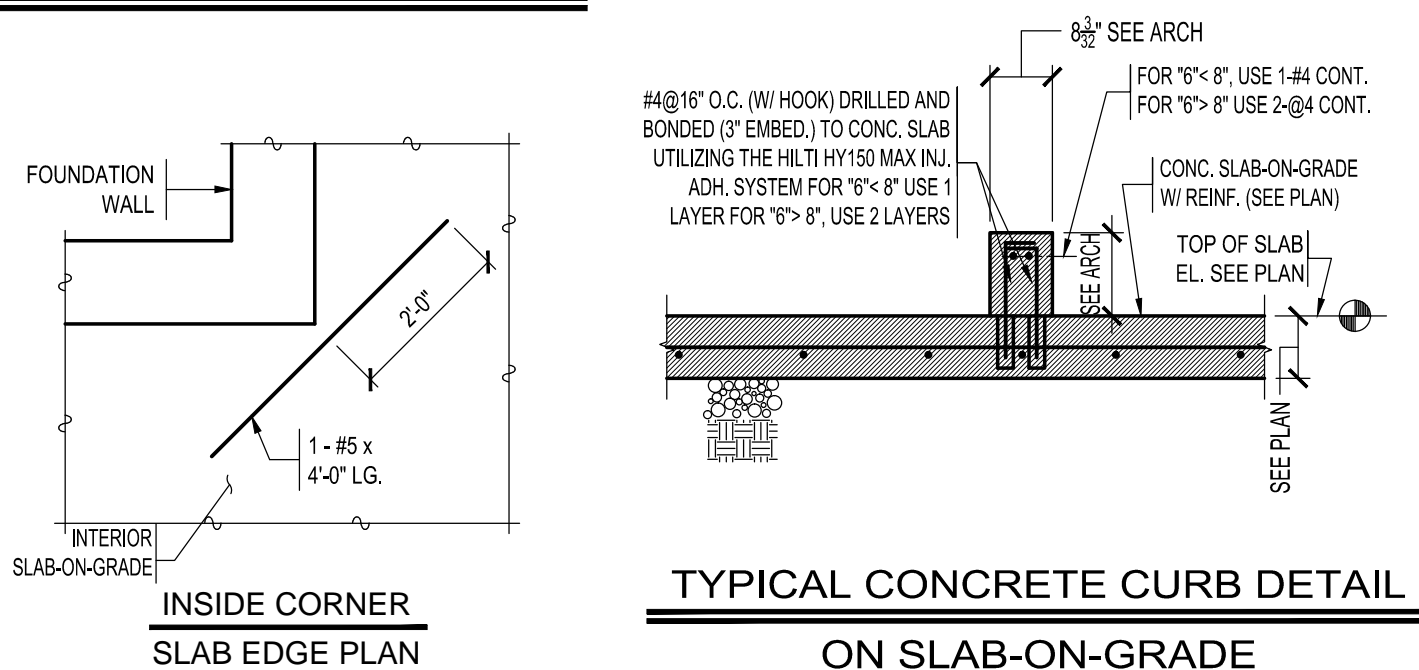
TYPICAL CHANGE IN ELEVATION AT SLAB-ON-GRADE



TYPICAL DETAIL AT PIPES PASSING THROUGH/UNDER FOUNDATION WALLS

TYPICAL CONSTRUCTION JOINT DETAILS

INSIDE CORNER SLAB EDGE PLAN



TYPICAL CONCRETE CURB DETAIL ON SLAB-ON-GRADE

(COORDINATE WITH MECHANICAL)

REBAR DEVELOPMENT AND LAP SPLICE LENGTHS

		LENGTHS (IN INCHES) BASED ON $f_c=3000$ PSI AND NORMAL WEIGHT CONCRETE										
		BAR TYPE	#3	#4	#5	#6	#7	#8	#9	#10	#11	
		TOP BARS	22	29	36	43	63	72	81	91	101	
DEVELOPMENT LENGTH	TENSION	OTHER BARS	17	22	28	33	48	55	62	70	78	
		COMPRESSION	ALL BARS	9	11	14	17	20	22	25	28	31
	LAP SPLICE LENGTH	TENSION	TOP BARS	28	36	47	56	81	93	105	116	131
OTHER BARS			22	29	36	43	63	72	81	91	101	
COMPRESSION		ALL BARS	12	15	19	23	27	30	34	39	43	

- NOTES:
- LENGTHS ARE BASED ON  $f_c = 60$  KSI,  $f_y = 3000$  PSI, AND NORMAL WEIGHT CONCRETE. WHERE LIGHTWEIGHT AGGREGATE CONCRETE IS SPECIFIED, MULTIPLY THE ABOVE TENSION VALUES BY A FACTOR OF 1.3.
  - TOP BARS ARE HORIZONTAL BARS SO PLACED THAT MORE THAN 12" OF FRESH CONCRETE IS PLACED IN THE MEMBER BELOW THE BAR.
  - DESIGN LAP SPLICE LENGTHS ARE FOR "CLASS B" SPLICES PER ACI 318. LESSER SPLICE LENGTHS MAY BE SUBMITTED BY THE CONTRACTOR PROVIDED FULL CALCULATIONS AND REFERENCE TO THE APPLICABLE PORTIONS OF THE LATEST EDITION OF ACI 318 ACCOMPANY THE SUBMITTAL.
  - WHERE BARS OF DIFFERENT SIZES ARE SPLICED, LAP SPLICE LENGTH SHALL BE AS REQUIRED FOR THE LARGEST BAR.

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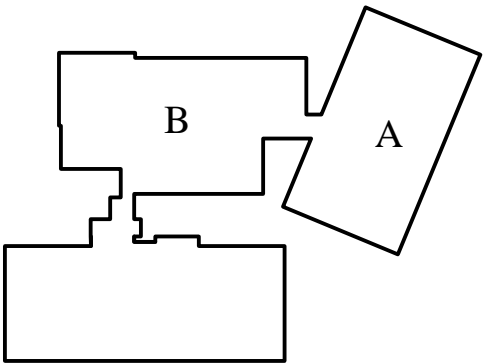
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REV DATE DESCRIPTION

Project North:

Key Plan:



KINDERGARTEN MODULAR CLASSROOM  
ADDITION TO THE NORTH ANDOVER  
EARLY CHILDHOOD CENTER

115 PHILIPS BROOK RD.  
NORTH ANDOVER, MA 01845

Stamp:

Drawing Name:

NORTH ANDOVER  
PRE-SCHOOL

GENERAL NOTES,  
TYPICAL DETAIL  
AND SCHEDULES

Job No.:

S123917

Date:

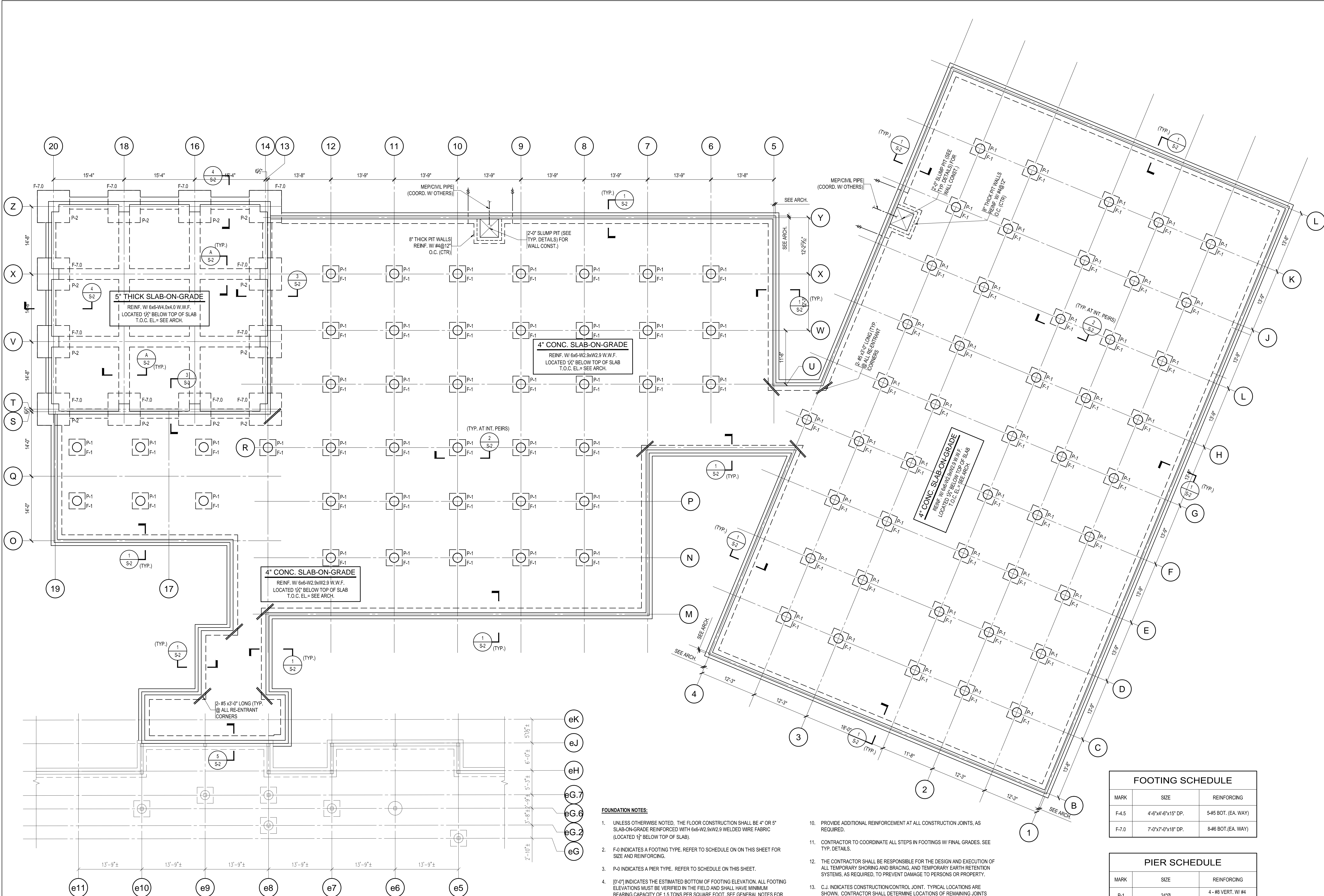
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RFP DOCUMENTS





FOUNDATION PLAN  
1/8"=1'-0"

FOUNDATION NOTES:

- UNLESS OTHERWISE NOTED, THE FLOOR CONSTRUCTION SHALL BE 4" OR 5" SLAB-ON-GRADE REINFORCED WITH 6x6-W2.9xW2.9 WELDED WIRE FABRIC (LOCATED 1/2" BELOW TOP OF SLAB).
- F-0 INDICATES A FOOTING TYPE. REFER TO SCHEDULE ON ON THIS SHEET FOR SIZE AND REINFORCING.
- P-0 INDICATES A PIER TYPE. REFER TO SCHEDULE ON THIS SHEET.
- [0'-0"] INDICATES THE ESTIMATED BOTTOM OF FOOTING ELEVATION. ALL FOOTING ELEVATIONS MUST BE VERIFIED IN THE FIELD AND SHALL HAVE MINIMUM BEARING CAPACITY OF 1.5 TONS PER SQUARE FOOT. SEE GENERAL NOTES FOR ADDITIONAL INFORMATION.
- CONTRACTOR SHALL COORDINATE ALL SLOTS, INSERTS, DOWELS, SLEEVES, ETC., AND ALL ANCHORS PRIOR TO PLACING CONCRETE.
- COORD. THE SIZE AND LOCATION OF ALL DEPRESSIONS, OPENINGS, CURBS, AND PADS WITH ARCHITECTURAL MEP DRAWINGS AND TYPICAL DETAIL SHEETS. COORDINATE PRIOR TO SHOP DRAWING SUBMITTALS.
- FOR DIMENSIONS NOT INDICATED, REFER TO ARCHITECTURAL DRAWINGS.
- REFER TO DWG. S-0 FOR GENERAL NOTES & TYPICAL DETAILS.
- CONSTRUCTION JOINTS IN ALL CONCRETE FOUNDATION WALLS SHALL NOT EXCEED 40 LINEAR FEET, UNLESS CONTROL JOINTS ARE PROVIDED TO MEET SAME.
- PROVIDE ADDITIONAL REINFORCEMENT AT ALL CONSTRUCTION JOINTS, AS REQUIRED.
- CONTRACTOR TO COORDINATE ALL STEPS IN FOOTINGS W/ FINAL GRADES. SEE TYP. DETAILS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN AND EXECUTION OF ALL TEMPORARY SHORING AND BRACING, AND TEMPORARY EARTH RETENTION SYSTEMS, AS REQUIRED, TO PREVENT DAMAGE TO PERSONS OR PROPERTY.
- C.J. INDICATES CONSTRUCTION/CONTROL JOINT. TYPICAL LOCATIONS ARE SHOWN. CONTRACTOR SHALL DETERMINE LOCATIONS OF REMAINING JOINTS FOLLOWING THESE RULES:
  - TOTAL AREA OF CONCRETE BETWEEN CONTROL JOINTS SHALL NOT EXCEED 280 SQUARE FEET.
  - MAXIMUM DISTANCE BETWEEN CONTROL JOINTS SHALL NOT EXCEED 18'-0".
  - ASPECT RATIO OF CONCRETE BETWEEN CONTROL JOINTS SHALL NOT EXCEED 1.5:1.
  - PROVIDE A CONTROL JOINT AT ALL REENTRANT CORNERS
- BOTTOM OF ALL FOOTINGS ARE A MINIMUM OF 4'-0" BELOW GRADE UNLESS NOTED OTHERWISE ON PLAN OR IN SECTION.
- WHEN COLUMN FOOTINGS ARE COMBINED WITH WALL FOOTINGS, THE TOP OF THE FOOTINGS SHALL MATCH.

FOOTING SCHEDULE		
MARK	SIZE	REINFORCING
F-4.5	4'-6"x4'-8"x15" DP.	5-#5 BOT. (EA. WAY)
F-7.0	7'-0"x7'-0"x18" DP.	8-#6 BOT. (EA. WAY)

PIER SCHEDULE		
MARK	SIZE	REINFORCING
P-1	24"Ø	4 - #8 VERT. W/ #4 TIES @12" O.C.
P-2	28"x28"	8 - #8 VERT. W/ #4 TIES @12" O.C.
P-3	18"x18"	4 - #8 VERT. W/ #4 TIES @12" O.C.

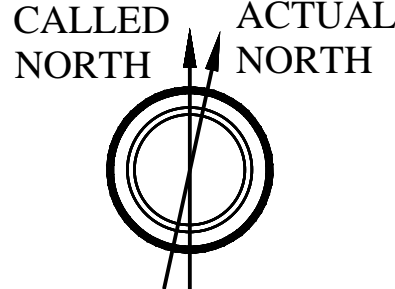
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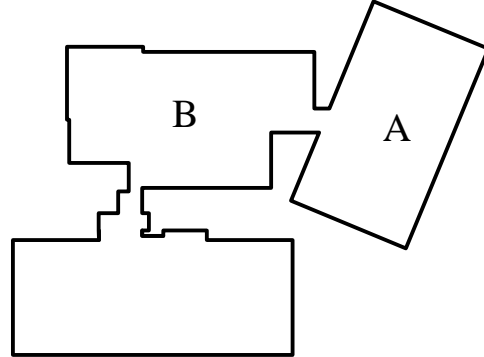
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REV	DATE	DESCRIPTION

Project North:



Key Plan:



KINDERGARTEN MODULAR CLASSROOM  
ADDITION TO THE NORTH ANDOVER  
EARLY CHILDHOOD CENTER

115 PHILIPS BROOK RD.  
NORTH ANDOVER, MA 01845

Stamp:

Drawing Name:

NORTH ANDOVER  
PRE-SCHOOL

FOUNDATION PLAN

Job No.:

S123917

Date:

11/01/2017

Drawing No.

S-1

RFP DOCUMENTS



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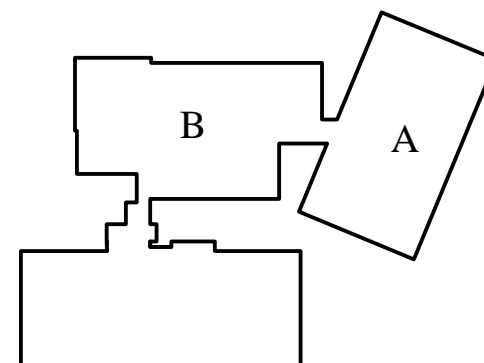
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Checked By:

REV	DATE	DESCRIPTION

Project North:

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**NORTH ANDOVER  
PRE-SCHOOL**

**SECTIONS**

Job No.:

S123917

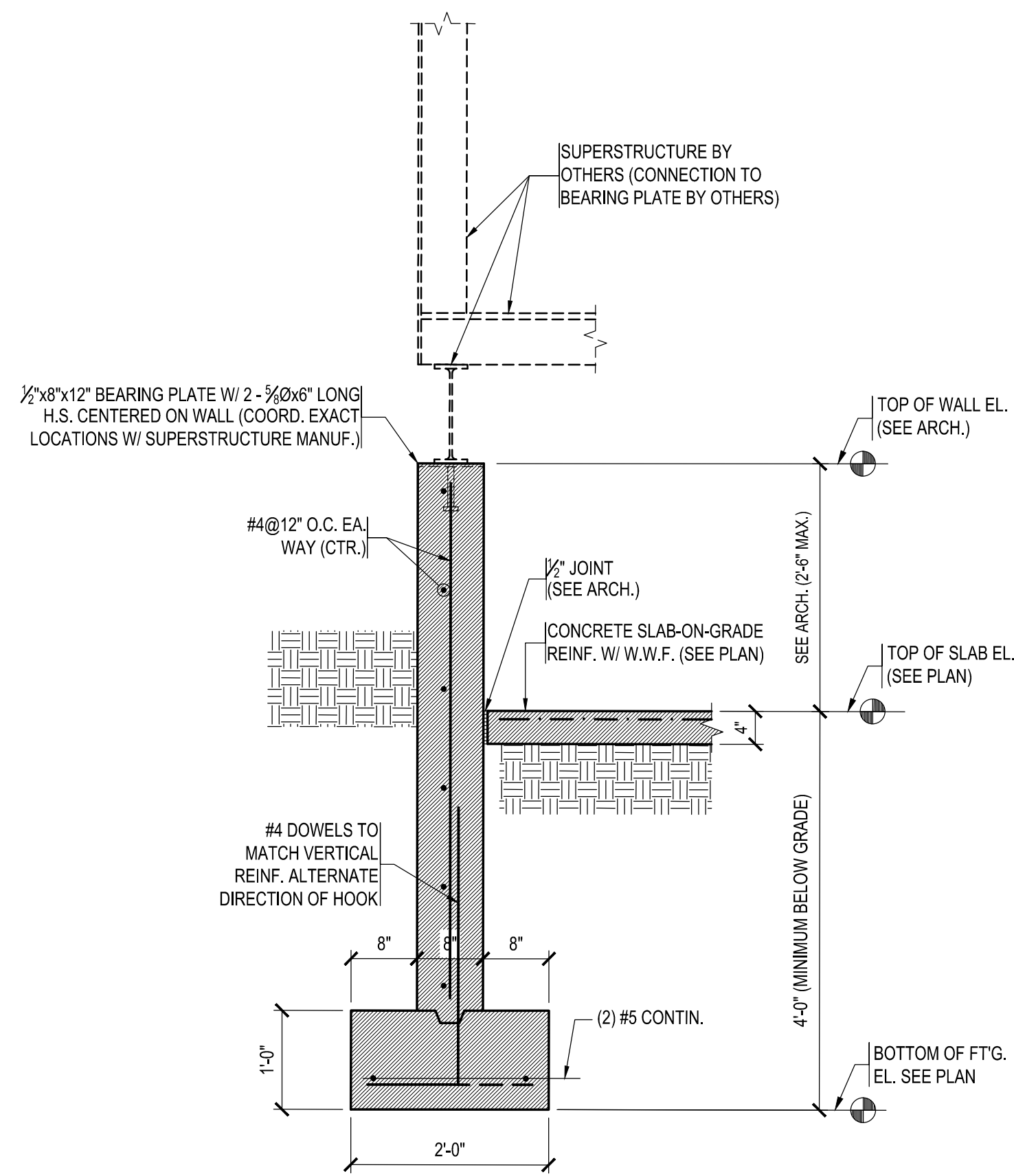
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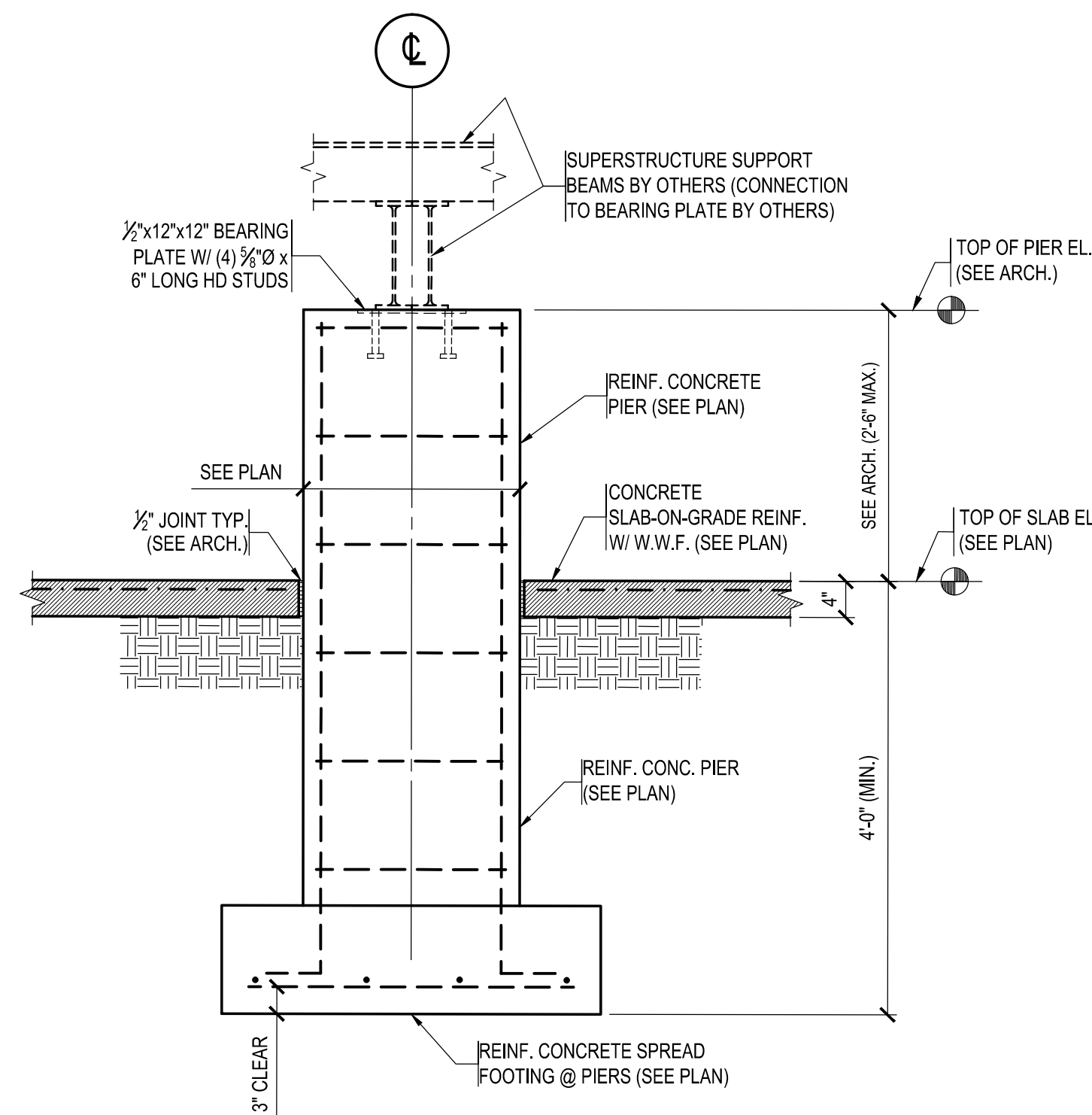
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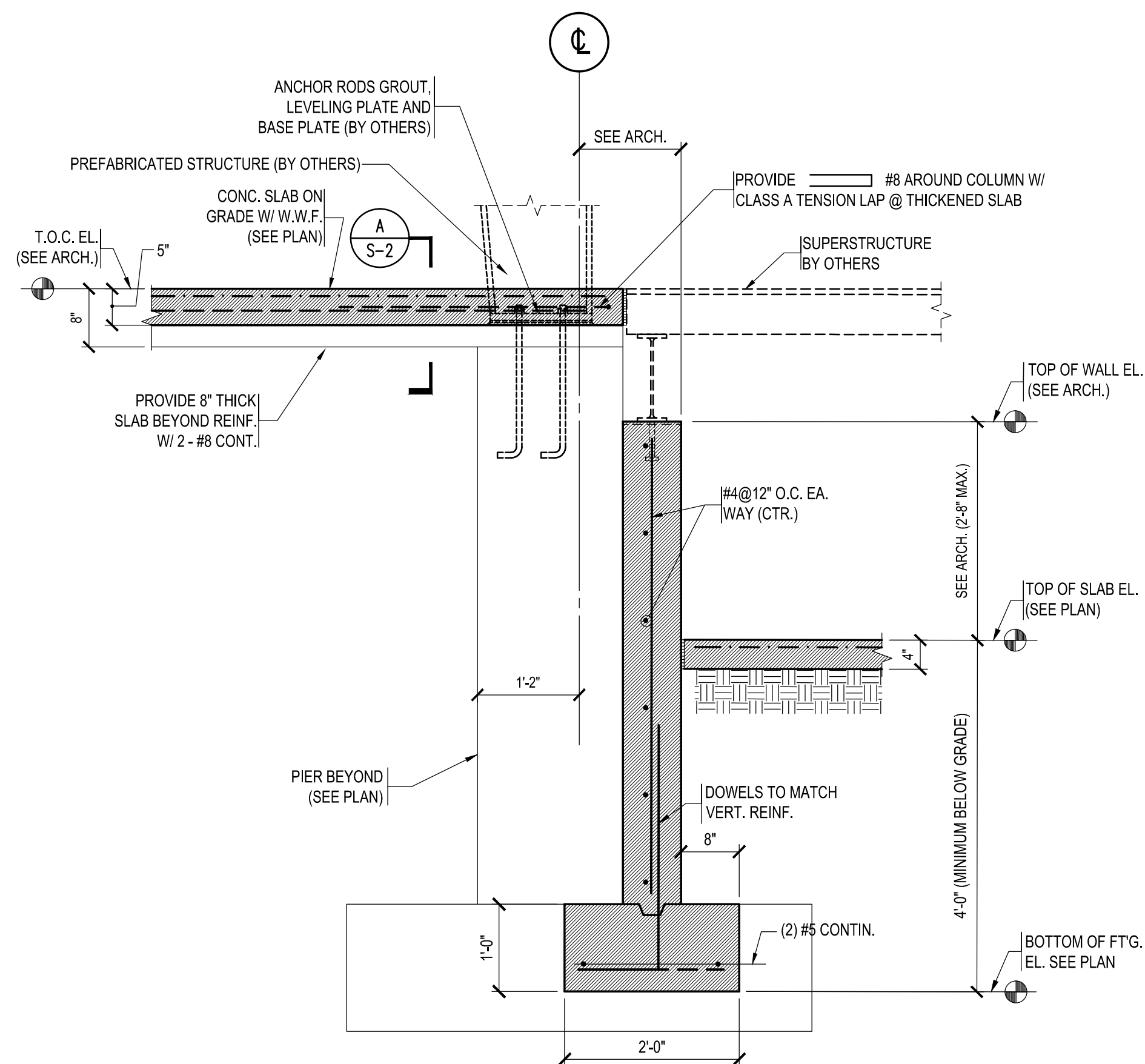
RFP DOCUMENTS



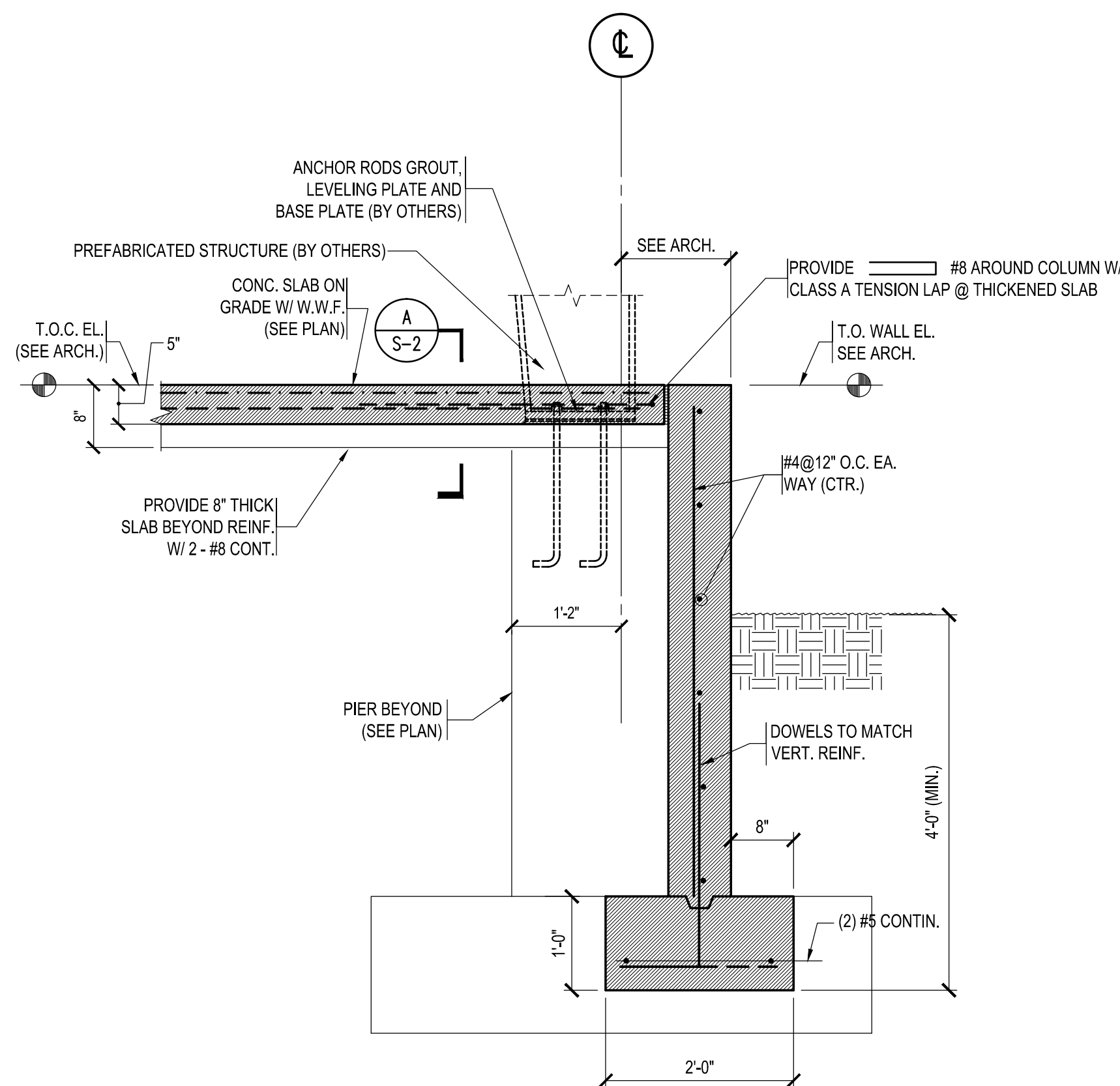
**SECTION 1**  
3/4"=1'-0"



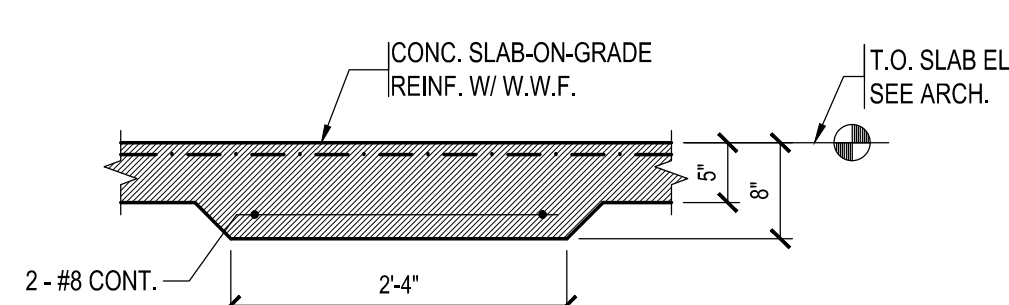
**SECTION 2**  
3/4"=1'-0"



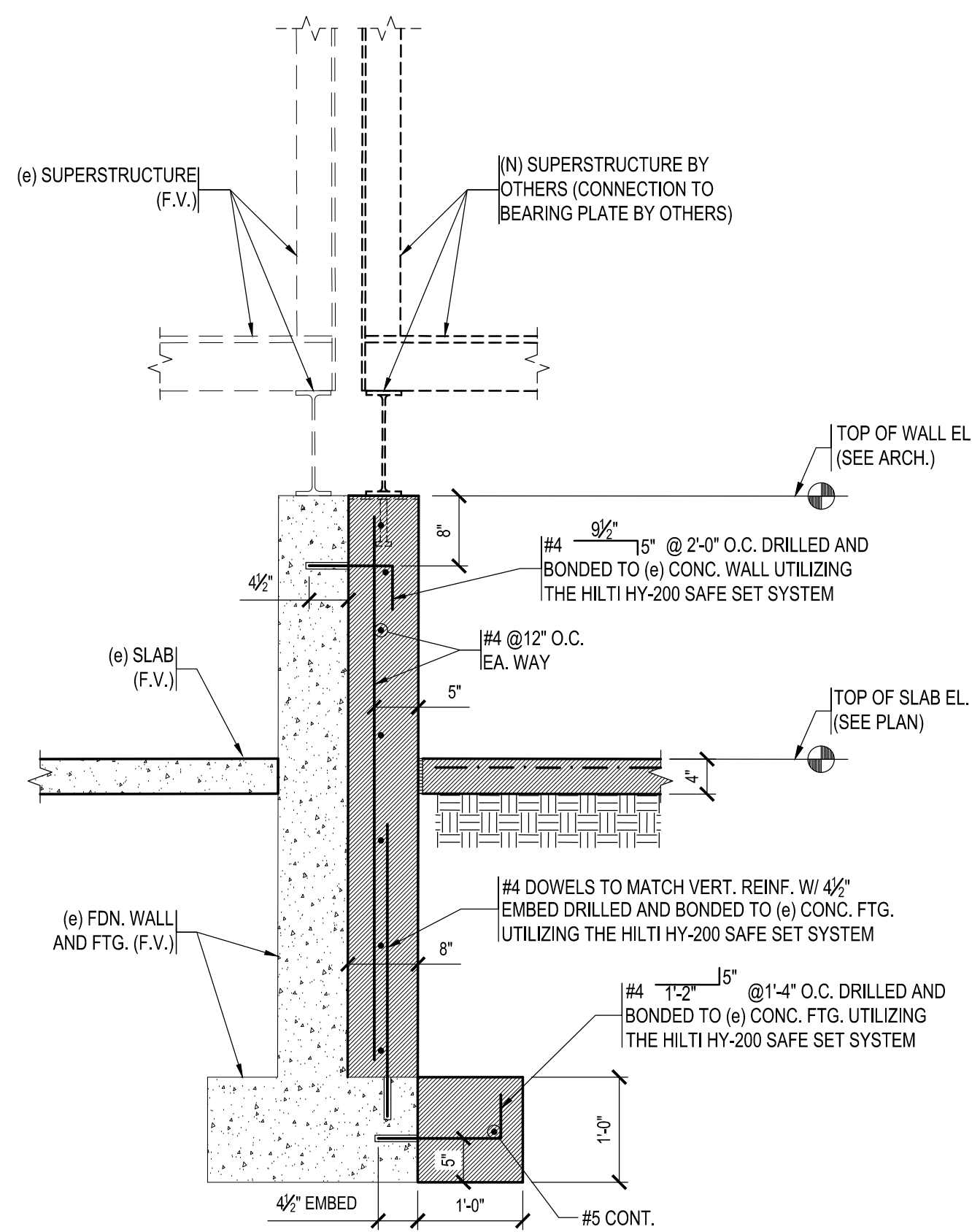
**SECTION 3**  
3/4"=1'-0"



**SECTION 4**  
3/4"=1'-0"



**SECTION A**  
3/4"=1'-0"



**SECTION 5**  
3/4"=1'-0"