

CITY OF NEWTON

IN BOARD OF ALDERMEN

PUBLIC FACILITIES COMMITTEE REPORT

WEDNESDAY, JUNE 5, 2013

Present: Ald. Salvucci (Chairman), Lennon, Albright, Crossley, Danberg, and Laredo

Absent: Ald. Gentile and Lappin

Also present: John Daghlian (Associate City Engineer), Josh Morse (Interim Commissioner of Public Buildings)

#190-13 HPC WIRELESS petitioning for a grant of location to install 4” fiber optic cable duct bank in WEBSTER STREET from an existing pole to the Massachusetts Turnpike Property. (Ward 3) [05-01-13 @ 10:07]

ACTION: **APPROVED 6-0**

NOTE: Rich Pasciuto, Representative of HPC Wireless, presented the request for a grant of location to install underground fiber optic cable in new duct bank in Webster Street to provide better mobile telephone services. There is a large tower located on Massachusetts Turnpike authority property, which the fiber needs to reach to provide increased capacity to support mobile phones. The installation will begin at an existing utility pole near Webster Park to the driveway to the Massachusetts Turnpike Authority property.

The Department of Public Works has reviewed and recommended approval of the project. The City is reconstructing Webster Street this construction season and would like HPC Wireless to complete all of its work as soon as possible so the street reconstruction is not delayed.

The public hearing was opened and no one spoke for or against the petition. A Committee member questioned whether the project would improve cell service in the Waban area around Cold Spring Park. Mr. Pasciuto stated that the above project would not affect cell service in the Waban area but there are Sprint upgrade projects planned in that area of the City to improve coverage and increase capacity. However, the upgrades would only improve service for residents that subscribe to Sprint for service. With that, Ald. Crossley moved approval, which carried unanimously.

REFERRED TO PUBLIC FACILITIES AND FINANCE COMMITTEES

#211-13 HIS HONOR THE MAYOR requesting authorization to appropriate and expend the sum of two hundred seventy-five thousand dollars (\$275,000) from bonded indebtedness to fund accessibility improvements at the Lower Falls Community Center. 05/28/13 @ 3:51 PM]

ACTION: **APPROVED 6-0**

NOTE: Interim Public Buildings Commissioner Josh Morse presented the request for \$275,000 for accessibility improvements at the Lower Falls Community Center. The total project cost is \$300,000, which includes \$25,000 for design that was previously approved by the Board of Aldermen. The attached project budget breakdown provides further detail on the costs for the accessibility improvements.

The proposed improvements include renovations to all bathrooms, the addition of a vertical lift between the main floor and the gym, replacement of the water bubbler, hardware replacement, signage and other minor improvements. The community and city groups heavily use the Lower Falls Community Center and it is a polling location as well. It will be a benefit to all users when the building is accessible. Commissioner Morse presented the attached plans at the meeting. Once the accessibility improvements are done, the building will be complete in terms of capital improvements.

Accessibility improvements related to building renovations are triggered when the renovation of a building results in 33% increase to the valuation of the property within a three-year period. There have been improvements to the Lower Falls Community Center over the past three years that have triggered the accessibility requirement. Once the work is complete, the building will meet all the accessibility requirements under the Architectural Access Board standard.

The project was sent out to bid and three contractors bid on the project. Two bidders came in below the estimated cost of the project. The bid results are attached. The project was awarded to Barbato Construction, as the low bidder. The Public Buildings Department has worked with Barbato Construction a number of times and has been pleased with their work.

Ald. Danberg moved approval, which carried unanimously.

REFERRED TO PUBLIC FACILITIES AND FINANCE COMMITTEES

#212-13 HIS HONOR THE MAYOR requesting authorization to transfer the sum of sixty-five thousand dollars (\$65,000) from the Public Buildings Department Full-time Salaries Account and appropriate the sum of thirty-five thousand dollars from Free Cash to fund the purchase of vehicles for the Public Buildings Department.
[05/28/13 @ 3:50 PM]

ACTION: **APPROVED 6-0**

NOTE: Interim Public Buildings Commissioner Josh Morse presented the request for \$100,000 to purchase two vans and two cars at auction. The Public Buildings Department will also be purchasing one natural gas pick-up truck. Over the past year, the department has lost three vehicles that were considered not worth repairing and surplus. A fourth vehicle will require replacement in the very near future as it will not pass inspection without extensive repairs like the replacement of a rotted frame.

The Commissioner explained that the purchase is being funded through a combination of \$35,000 from Free Cash and \$65,000 from unexpended salary funds within the Public Buildings

Department due to vacant positions. The new vehicles will not go home with employees overnight.

Commissioner Morse explained that the City would be looking at using natural gas vehicles in the future. The cost of natural gas fuel is less expensive and it burns cleaner than gasoline. The Committee requested further information on natural gas vehicles.

Ald. Laredo moved approval of the item, which carried unanimously.

REFERRED TO PROGRAMS & SERV. AND PUBLIC FACILITIES COMMITTEES

#315-12 ALD. FULLER, RICE AND GENTILE of the Angier School Building Committee providing updates and discussion on the Angier School Building project as it develops through the site plan approval process. [10-02-12 @ 3:37PM]

ACTION: **HELD 6-0**

NOTE: The item was held without discussion.

Respectfully submitted,

Anthony J. Salvucci, Chairman

Lower Falls Community Center Accessibility Project Budget Breakdown

Construction	\$ 263,164.00
Contingency(4.3%)	\$ 11,836.00
Total Funding Request	\$ 275,000.00
Design(previously approved)	\$ 25,000.00
Total Project Cost	\$300,000.00

City of Newton, Massachusetts
 Purchasing Department
 Comparison of Bids

INVITATION FOR BID #13-75
 Lower Falls Community Center Accessibility Upgrades

Bid Opening Time: 10:30 AM, May 3, 2013
 Public Buildings - Maciej Konieczny

BIDDERS	Barbato Construction	Seaver Construction	EaglePoint Builders
Lower Falls Community Center Accessibility Upgrades	\$244,464.00	\$247,000.00	\$297,321.00
<i>Alternate 1</i>	\$8,800.00	\$6,200.00	\$5,763.00
<i>Total with Alternate 1</i>	\$253,264.00	\$253,200.00	\$303,084.00
<i>Alternate 2</i>	\$9,900.00	\$10,200.00	\$12,250.00
<i>Total with Alternate 1 & 2</i>	\$263,164.00	\$263,400.00	\$315,334.00

Award Recommended to:

 Chief Procurement Officer

 Date

Alternate 1

Alternate 2

Department Head

 Date

 Mayor or his designee

 Date

Notes Regarding Specific Bids

CITY OF NEWTON, MASSACHUSETTS
PURCHASING DEPARTMENT
COMPARISON OF BIDS

INVITATION #13-75

Filed Sub Bidders - Lower Falls Community Center

Filed Sub Bid Opening: April 26, 2013 at 10:30 am
Project Manager: Maciej Konieczny

Company Name of Filed Sub Bidders	Base Bid	5% Bid Dep.	Alt. 1	Alt. 2	Alt. 3	Alt. 4	Addendum	Bid Form Sign	Elig. Cert.	Update Stmt	may be used by any general bidder except	may be used by the following general bidders
ELECTRICAL												
Young Electrical Services	\$28,758.00	Y	\$1,163.00				1	Y	Y	Y		
Company Name and Address of Filed Sub Bidders	Base Bid	5% Bid Dep.	Alt. 1	Alt. 2	Alt. 3	Alt. 4	Addendum	Bid Form Sign	Elig. Cert.	Update Stmt	may be used by any general bidder except	may be used by the following general bidders
PLUMBING												
P.J. Dionne Co., Inc.	\$32,000.00	Y	\$4,900.00				1,2	Y	Y	Y		
Robert W. Irvine & Sons	\$32,000.00	Y	\$3,200.00	\$1,800.00			1,2	Y	Y	Y		

LOWER FALLS COMMUNITY CENTER ACCESSIBILITY IMPROVEMENTS

545 GROVE STREET
NEWTON LOWER FALLS, MA 02462

LOCATION PLAN



LOWER FALLS COMMUNITY CENTER

LIST OF DRAWINGS

GENERAL

T1.1 TITLE SHEET

ARCHITECTURAL

D1 DEMOLITION - FLOOR PLAN
A1 NEW WORK - FLOOR PLAN
A2 ENLARGED FLOOR PLANS AND ELEVATIONS
A3 ENLARGED PLANS AND SECTIONS
A4 REFLECTED CEILING PLAN, DOOR SCHEDULE AND DETAILS

STRUCTURAL

S0 GENERAL NOTES
S1 PARTIAL FLOOR PLAN AND SECTIONS
S3 PARTIAL ROOF PLAN AND SECTIONS

PLUMBING

P1.0 PLUMBING LEGEND
PD2.0 PLUMBING FIRST FLOOR DEMOLITION PLAN
P2.0 PLUMBING FIRST FLOOR PLAN

MECHANICAL

H1 HVAC FIRST FLOOR PLAN

ELECTRICAL

ED1.0 EXISTING & DEMOLITION PLAN-FIRST FLOOR
E1.0 ELECTRICAL LEGEND AND DETAILS
E2.0 NEW POWER, LIGHTING & FIRE ALARM PLAN
E3.0 ELECTRICAL SCHEDULES

KBA ARCHITECTS
KNIGHT, BAGGE AND ANDERSON, INC.

6 THIRTEENTH STREET
CHARLESTOWN, MA. 02129
617-241-2807 (T)
617-241-2857 (F)

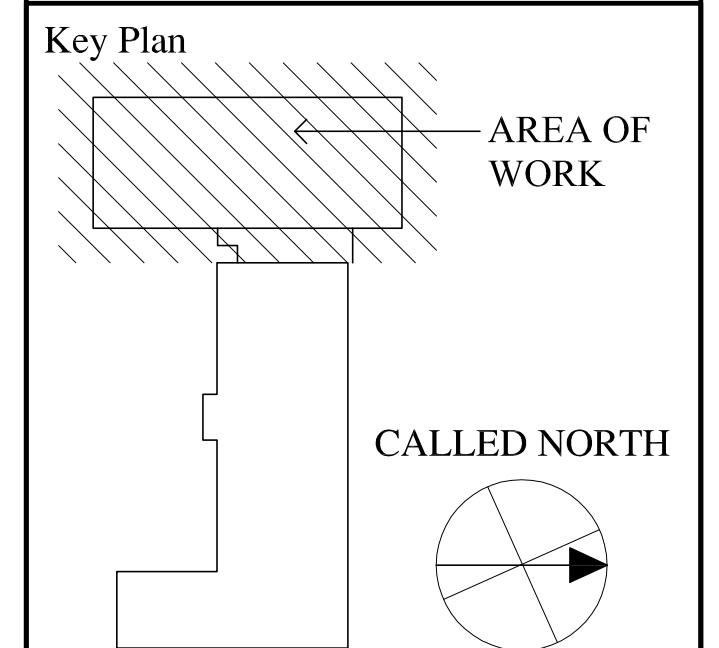
Designed By: Daniel P. Bradford

Drawn By: E.L. / T.K.

Checked By: Daniel P. Bradford

REV	DATE	DESCRIPTION

Stamp:



Lower Falls
Community Center
Accessibility
Improvements
545 Grove Street
Newton Lower Falls
MA. 02462

Drawing Name:

TITLE
SHEET

Job No.:
S116911-H

Date:
4-4-13

Drawing No.

T1

BID DOCUMENTS

PREPARED BY:

KBA ARCHITECTS
KNIGHT, BAGGE AND ANDERSON, INC.

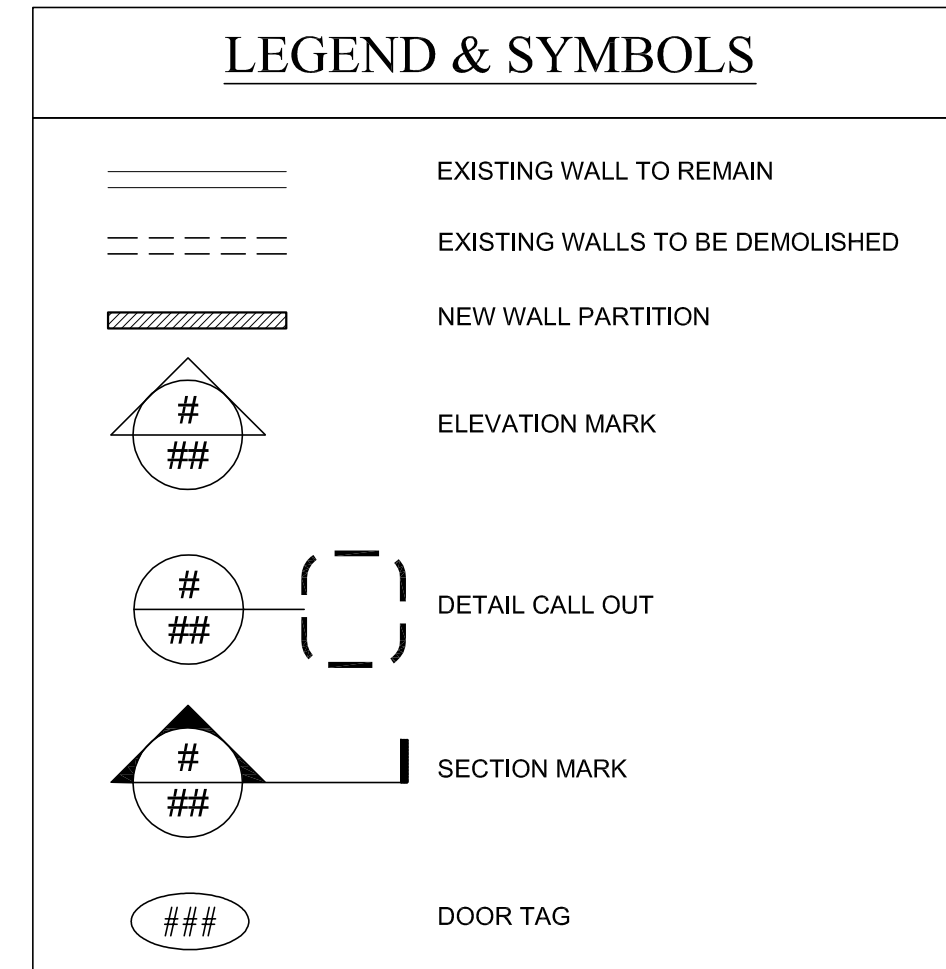
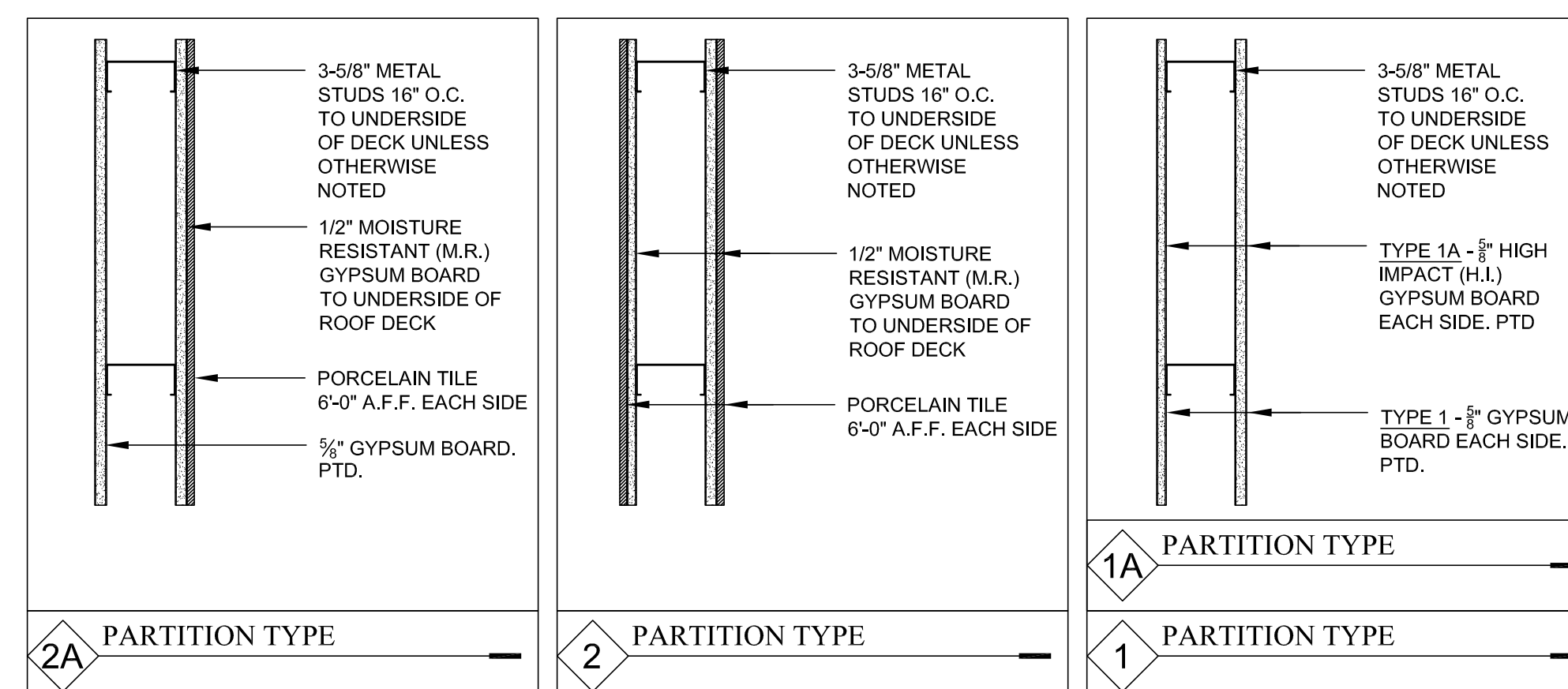
6 THIRTEENTH STREET
CHARLESTOWN NAVY YARD
CHARLESTOWN, MA 02129
Office: 617-241-2807

STRUCTURAL ENGINEERS
SOUZA, TRUE & PARTNERS, INC.

653 MT. AUBURN STREET
WATERTOWN, MA 02472
Office: 617-926-6100

MEP ENGINEERS
CSI ENGINEERS

999 Broadway, Suite 206
Saugus, MA 01906
Office: 781-233-4808



Designed By: Daniel P. Bradford

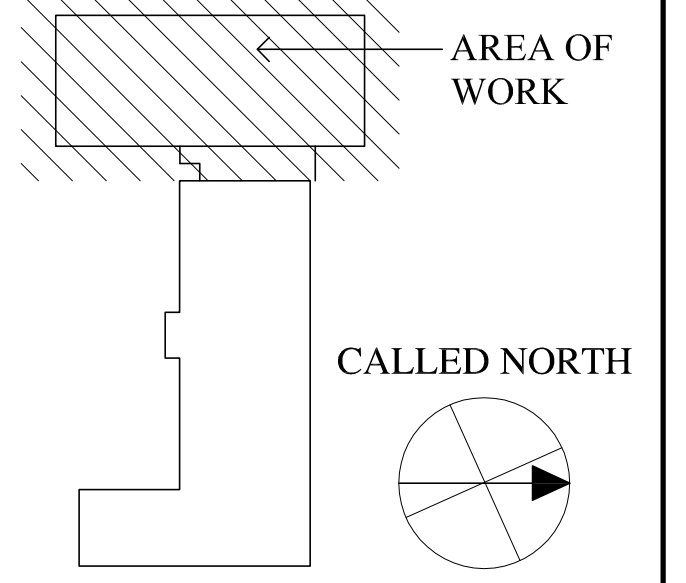
Drawn By: E.L. / T.K.

Checked By: Daniel P. Bradford

REV	DATE	DESCRIPTION

Stamp:

Key Plan



**Lower Falls
Community Center
Accessibility
Improvements**

545 Grove Street
Newton Lower Falls
MA. 02462

Drawing Name:

**DEMOLITION
FLOOR PLANS**

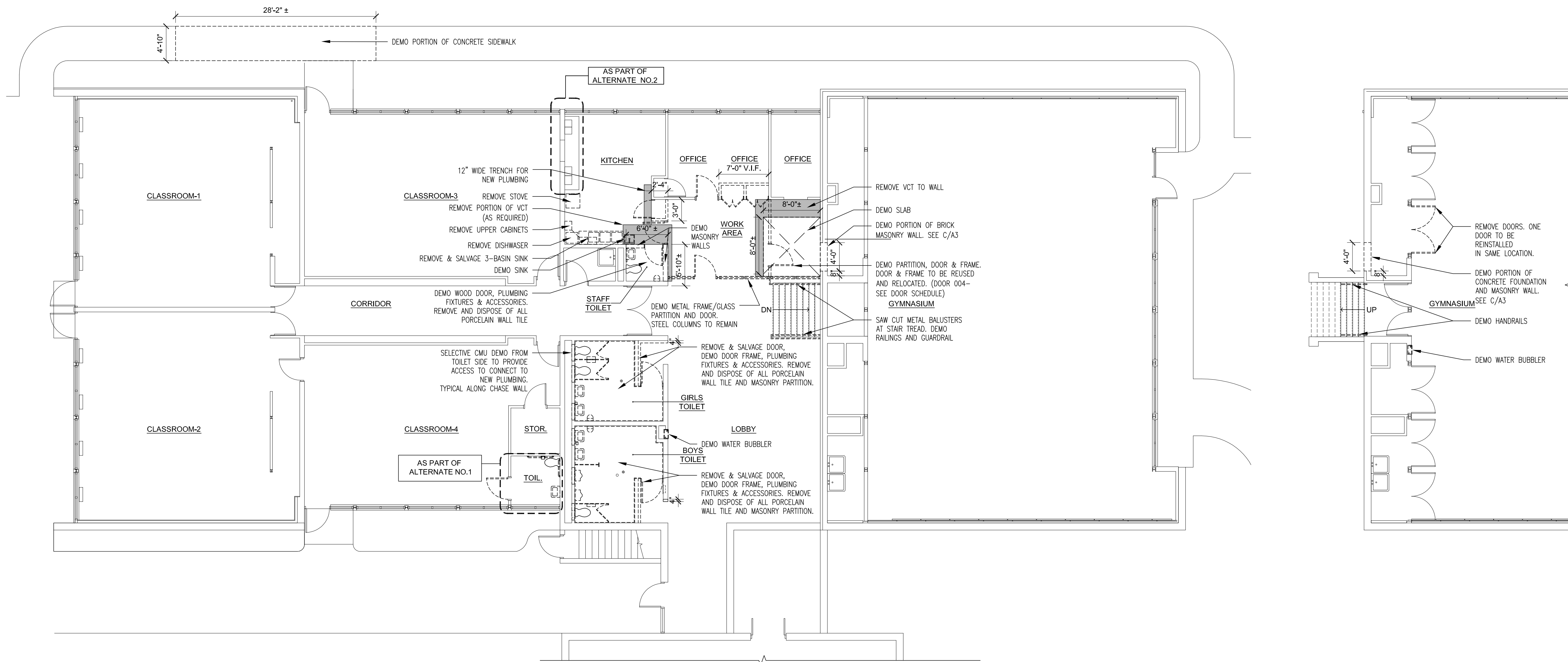
Job No.:
S116911-H

Date:
4-4-13

Drawing No.

D1

BID DOCUMENTS



B
D1 DEMO WORK PLAN-FIRST FLOOR
SCALE: 1/8"=1'-0"

A
D1 DEMO WORK PLAN-LOWER GYM
SCALE: 1/8"=1'-0"

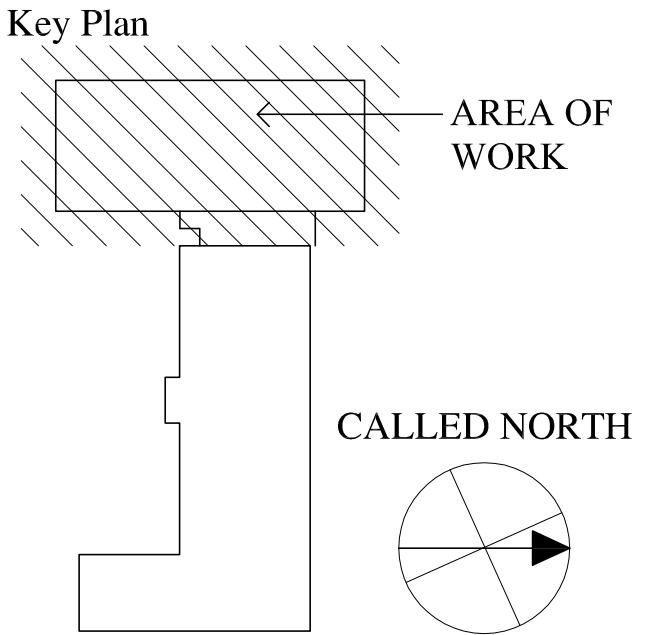
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Drawn By: E.L. / T.K.

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REV	DATE	DESCRIPTION

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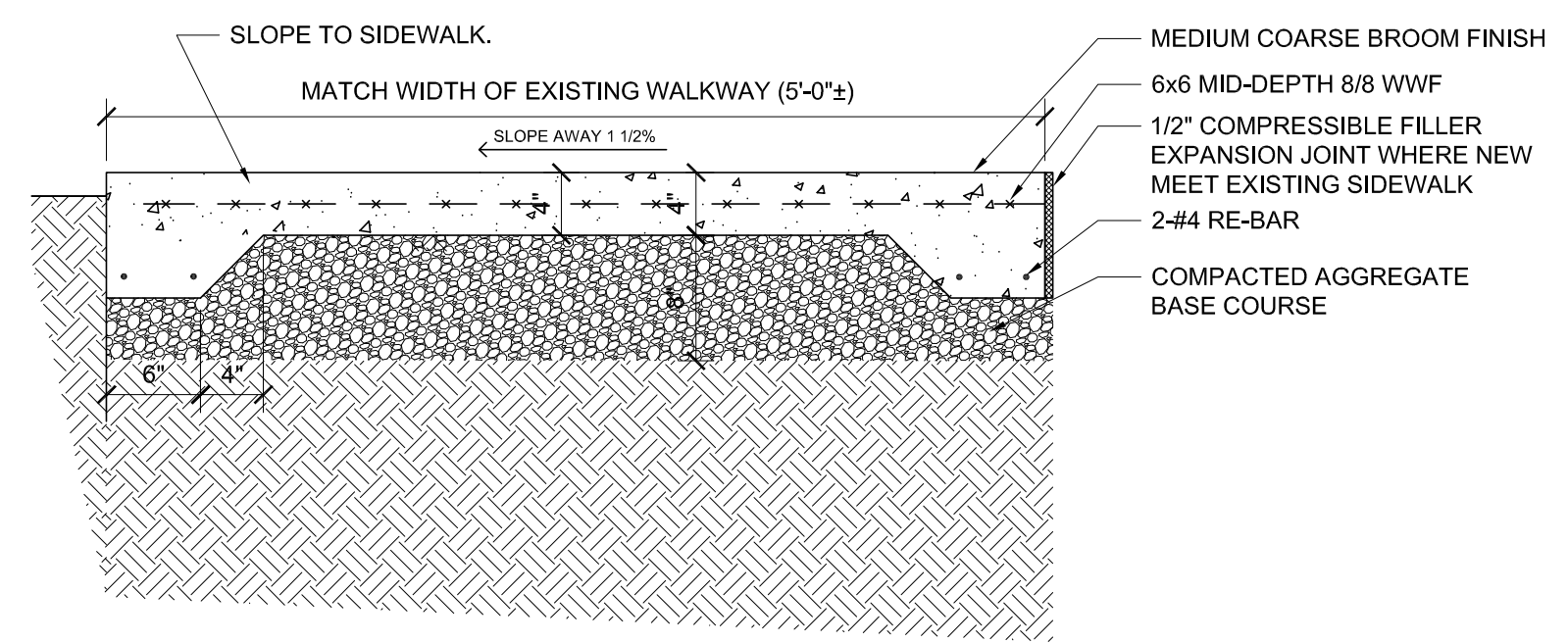
**Lower Falls
Community Center
Accessibility
Improvements**
545 Grove Street
Newton Lower Falls
MA. 02462

Drawing Name:

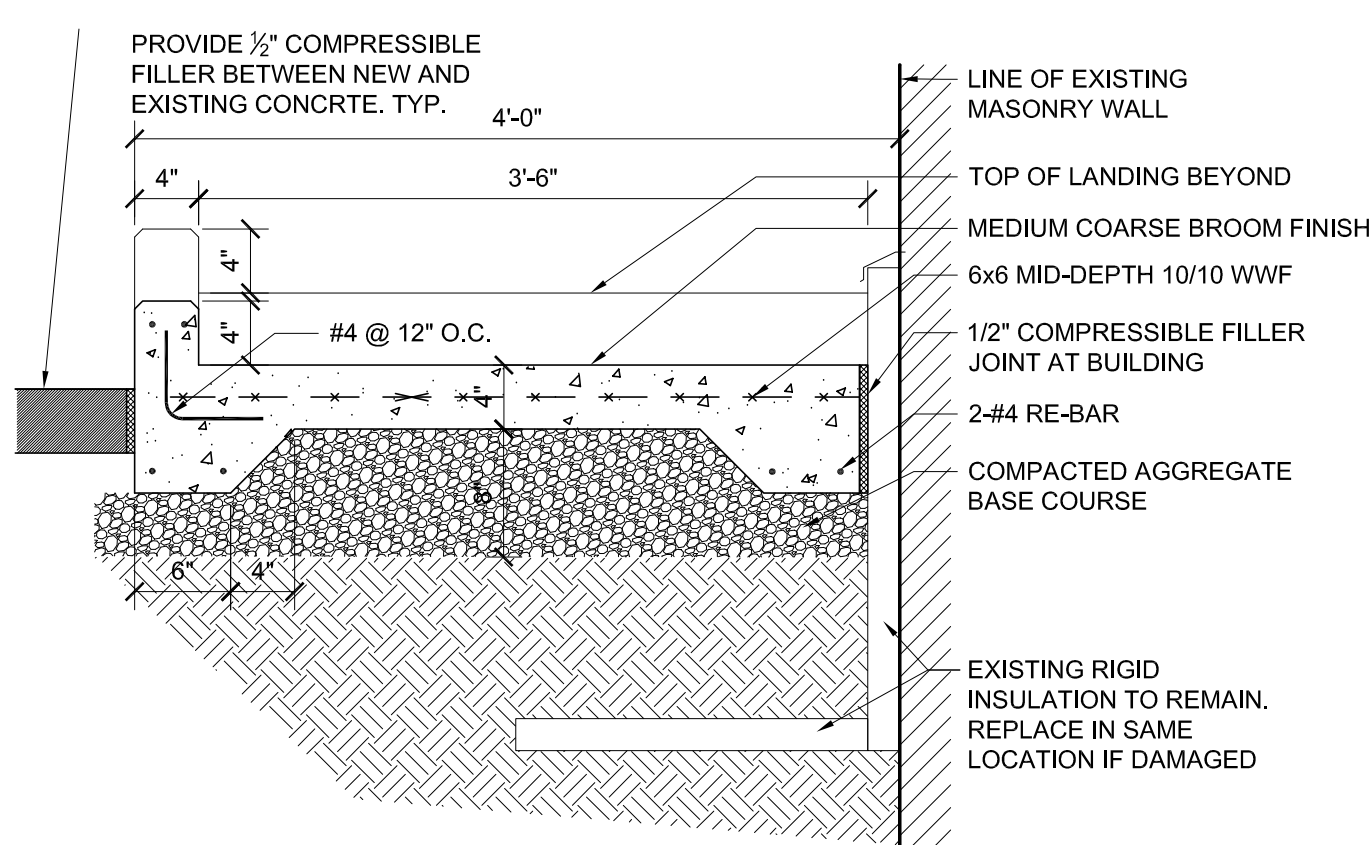
**NEW WORK
FLOOR PLANS**

Job No.: S116911-H	Drawing No.:
Date: 4-4-13	A1

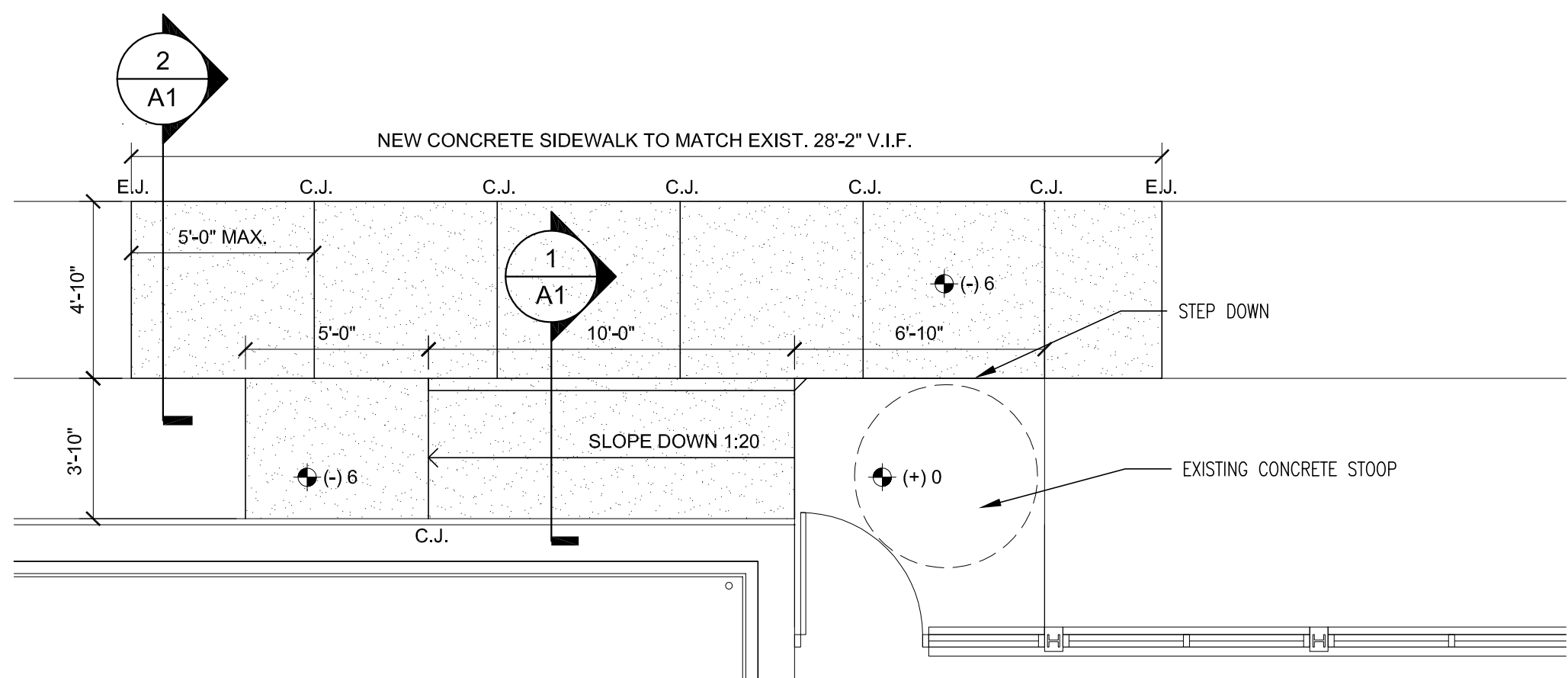
BID DOCUMENTS



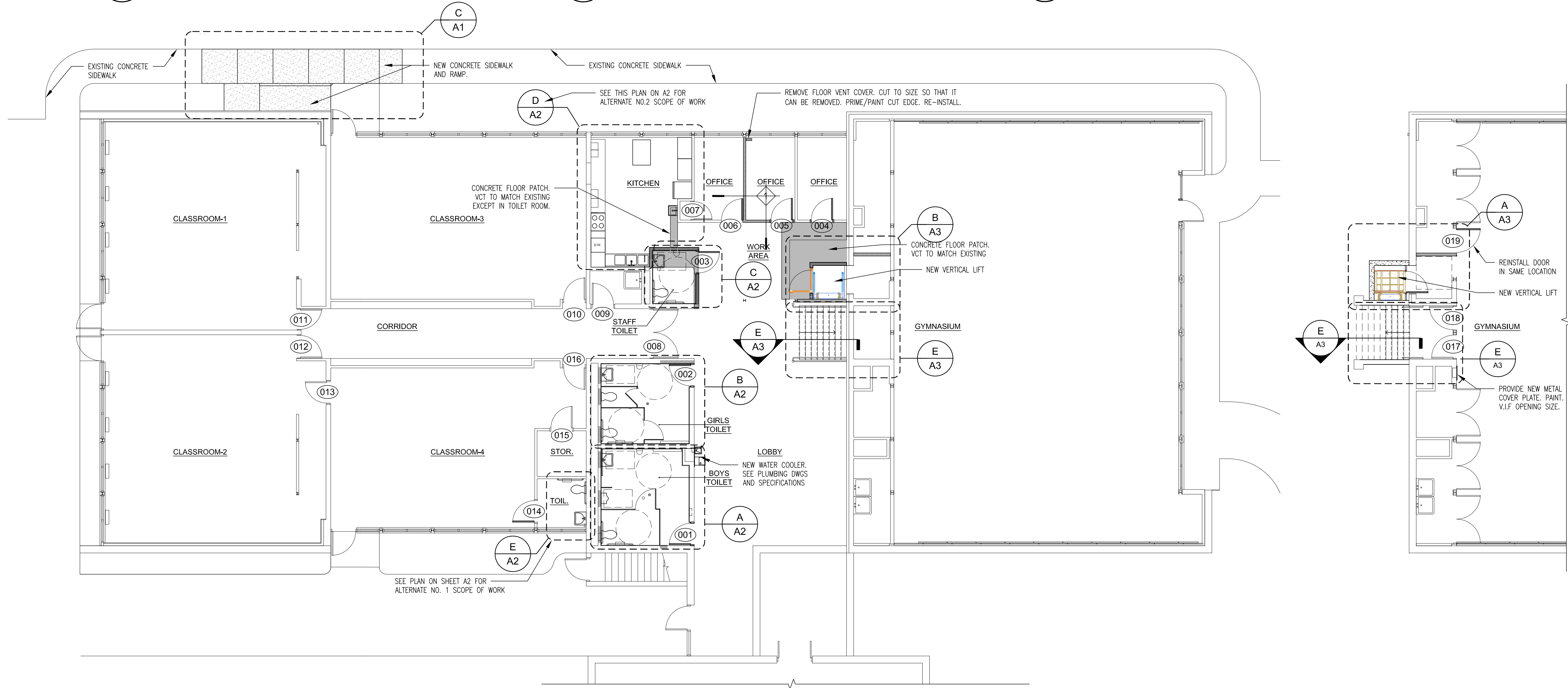
2
A1 CONCRETE SIDEWALK
SCALE: 1"=1'-0"



1
A1 CONCRETE SLOPE SECTION
SCALE: 1"=1'-0"



C
A3 NEW CONCRETE SLOPE & SIDEWALK PLAN
SCALE: 1/4"=1'-0"



A
A1 NEW WORK PLAN-UPPER LEVEL (LOBBY)
SCALE: 1/8"=1'-0"

B
A1 LOWER LEVEL (GYM) PLAN
SCALE: 1/8"=1'-0"

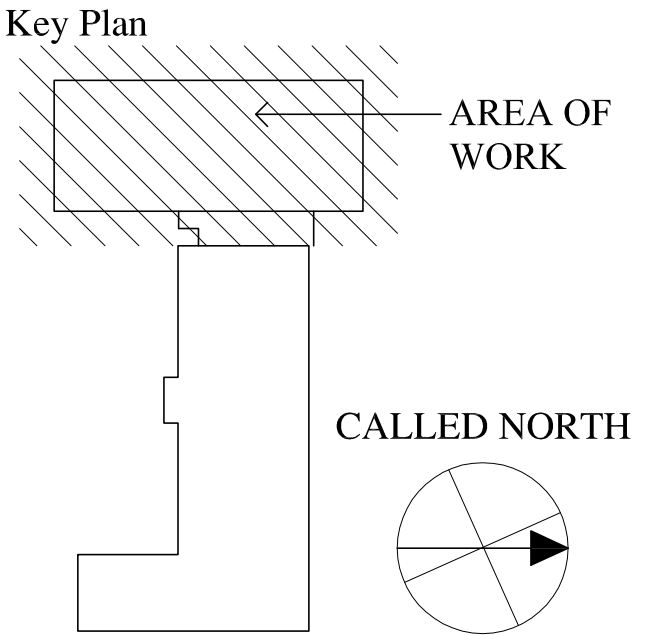
Designed By: Daniel P. Bradford

Drawn By: E.L. / T.K.

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Lower Falls Community Center Accessibility Improvements

545 Grove Street
Newton Lower Falls
MA. 02462

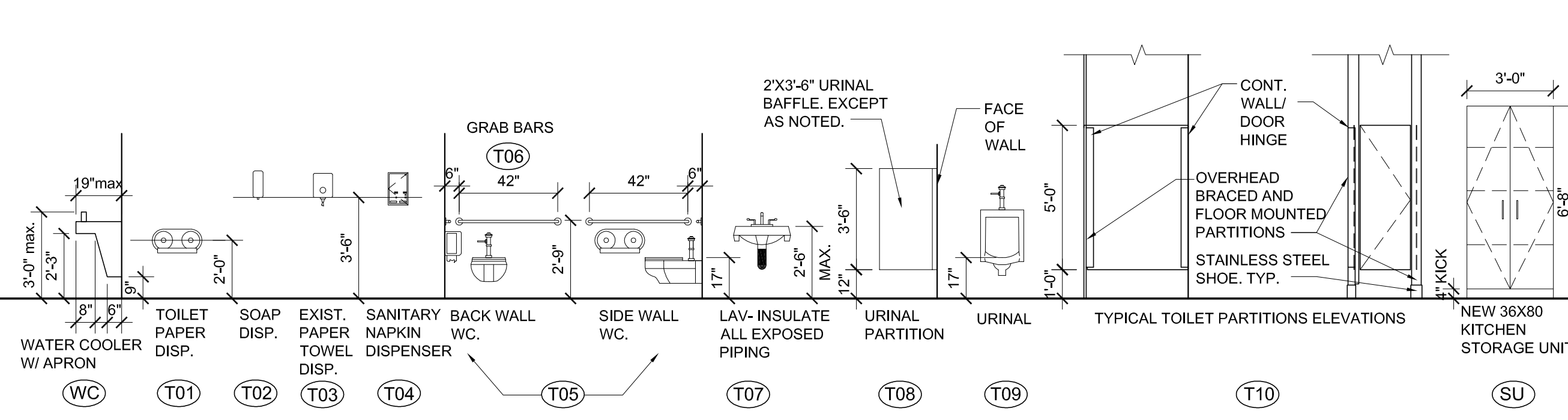
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ENLARGED FLOOR PLANS AND ELEVATIONS

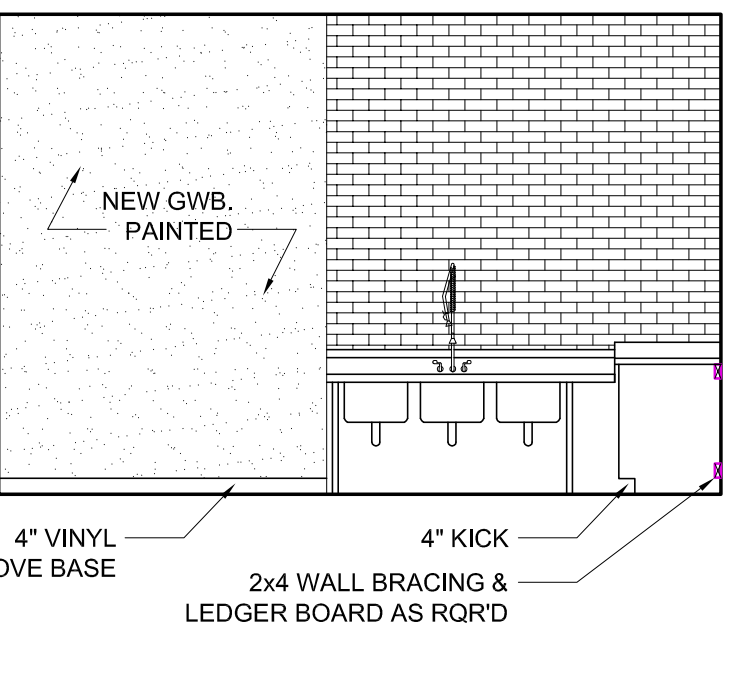
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Date: 4-4-13

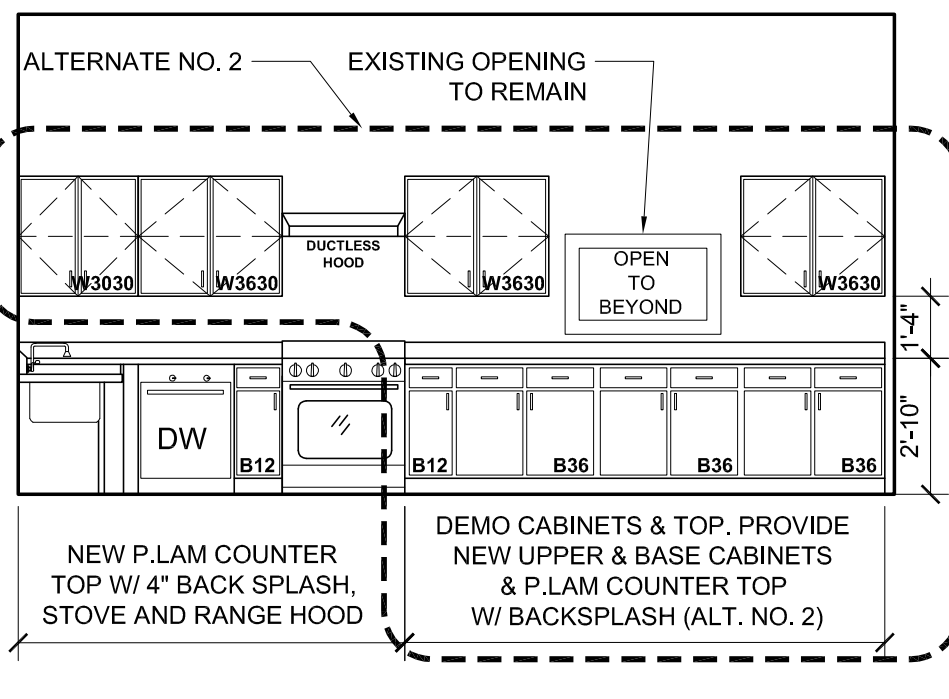
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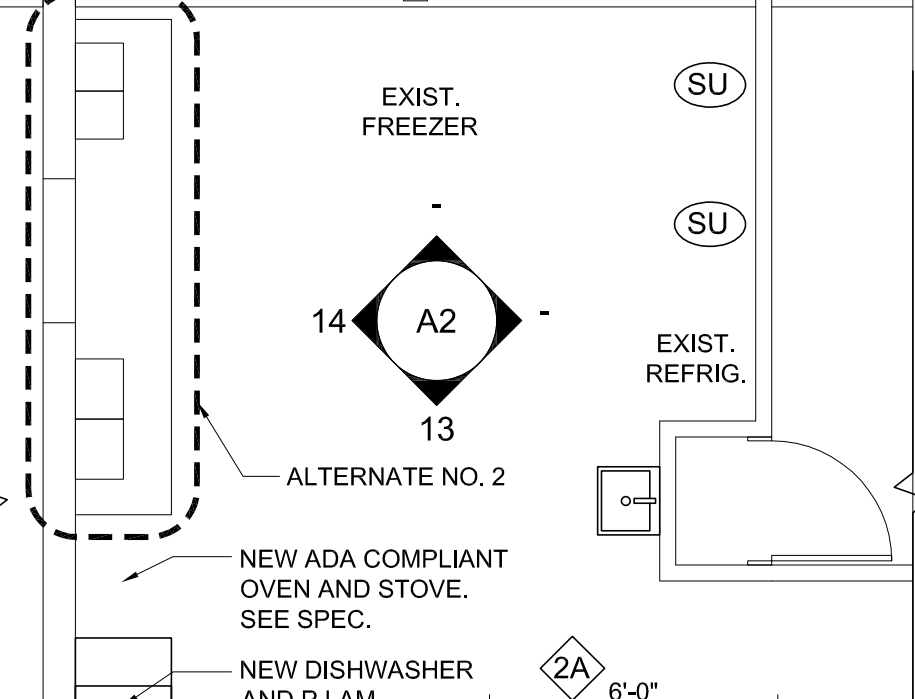
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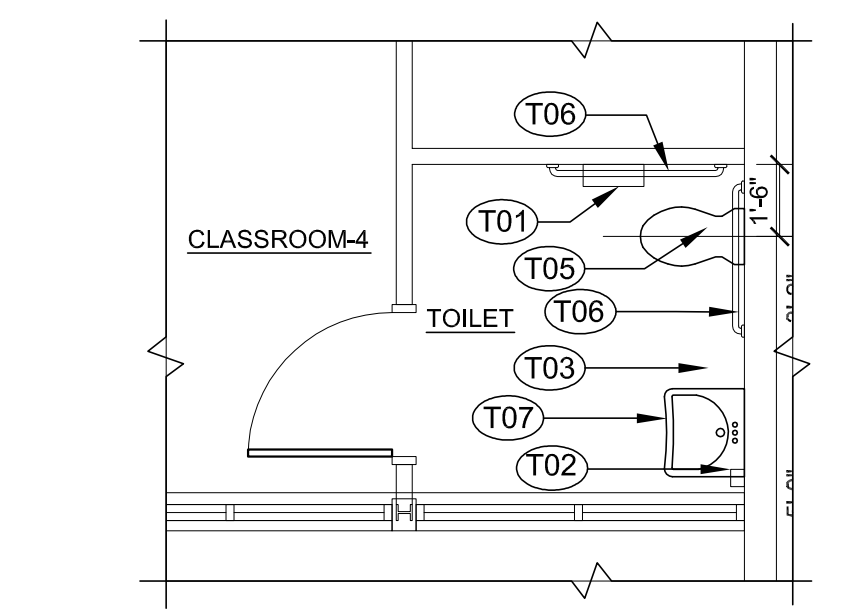
13 KITCHEN
SCALE: 1/4"=1'-0"



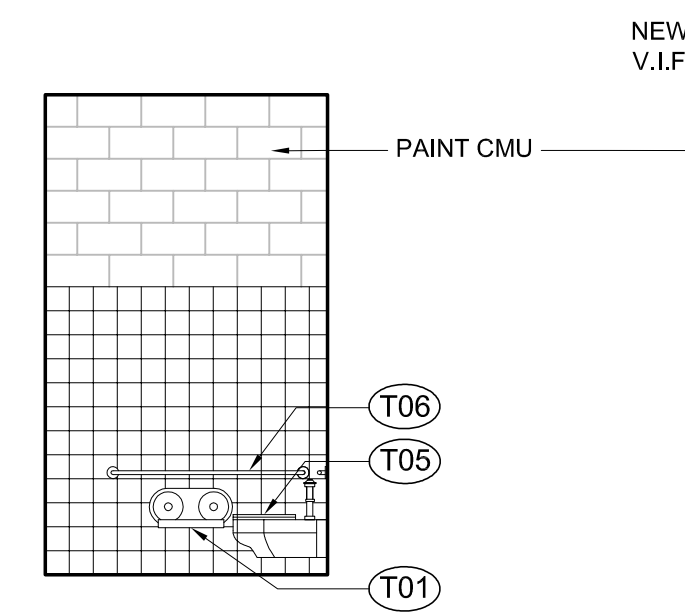
14 KITCHEN
SCALE: 1/4"=1'-0"



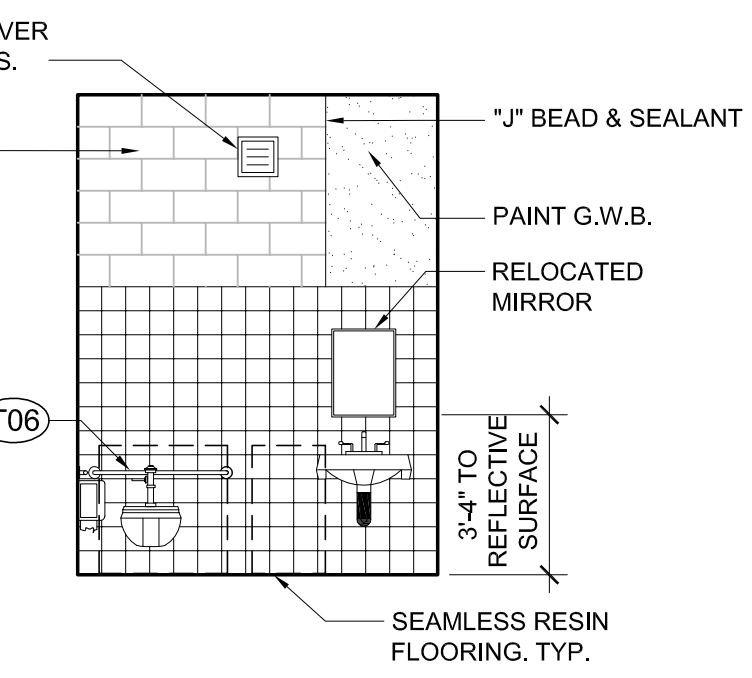
D KITCHEN PLAN
SCALE: 1/4"=1'-0"



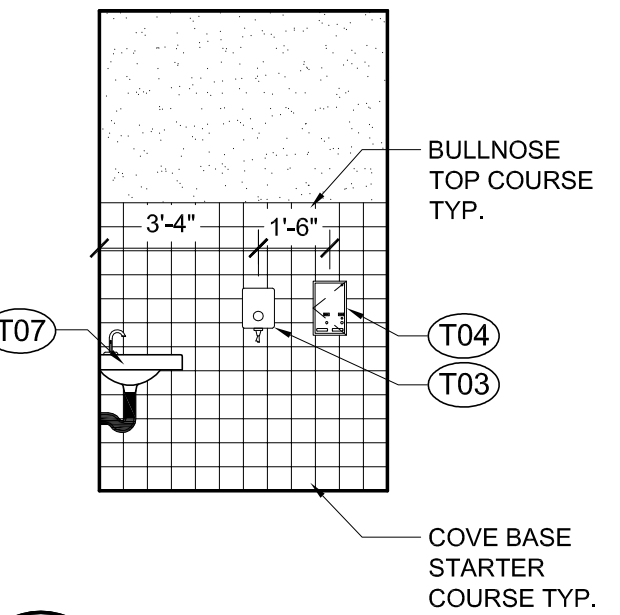
E ALTERNATE NO. 1 CLASSROOM-4 TOILET
SCALE: 1/4"=1'-0"



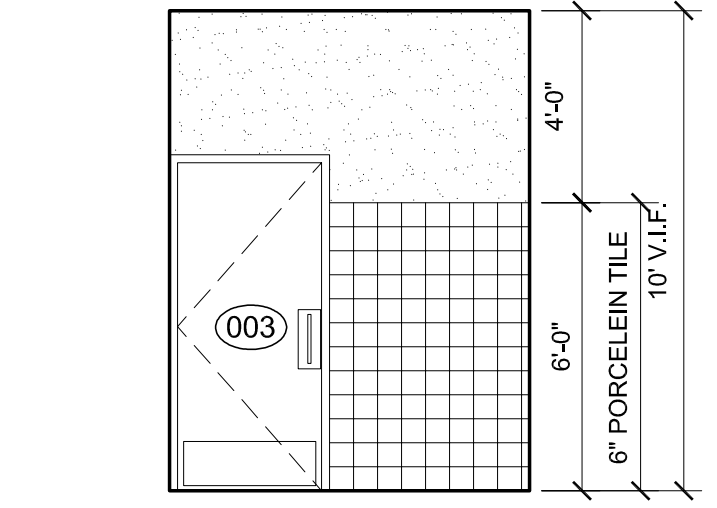
9 STAFF TOILET
SCALE: 1/4"=1'-0"



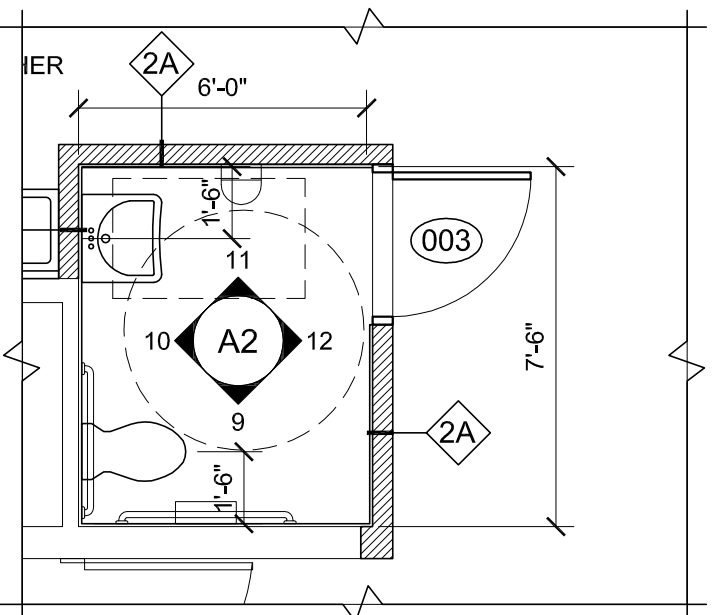
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SCALE: 1/4"=1'-0"



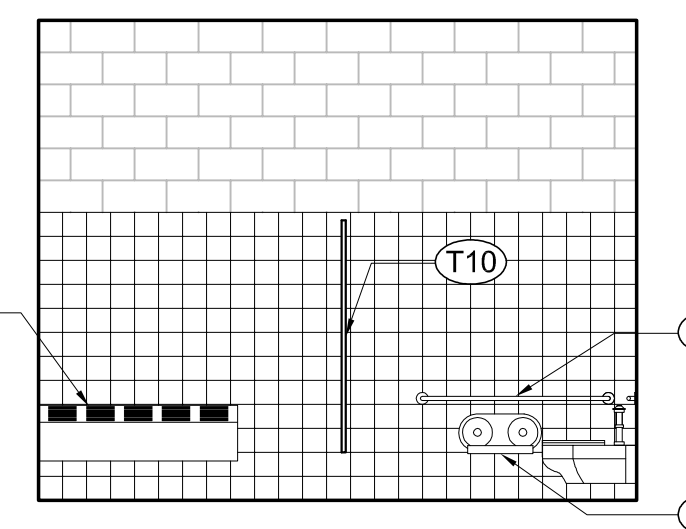
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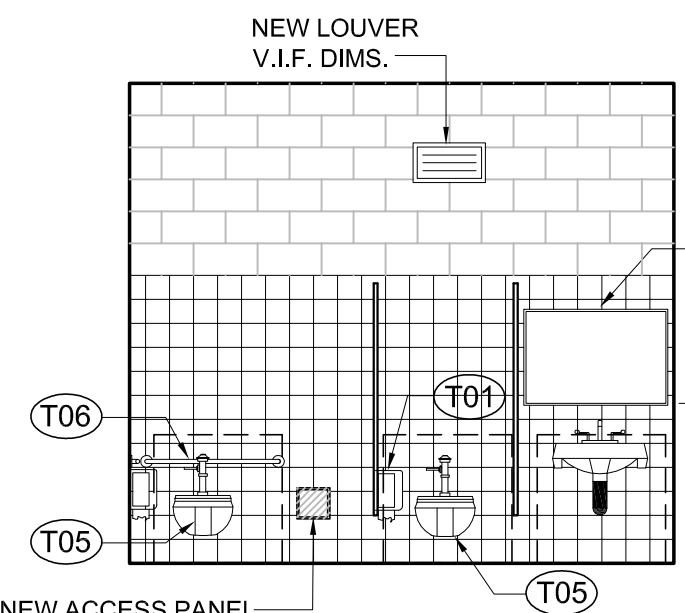
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SCALE: 1/4"=1'-0"



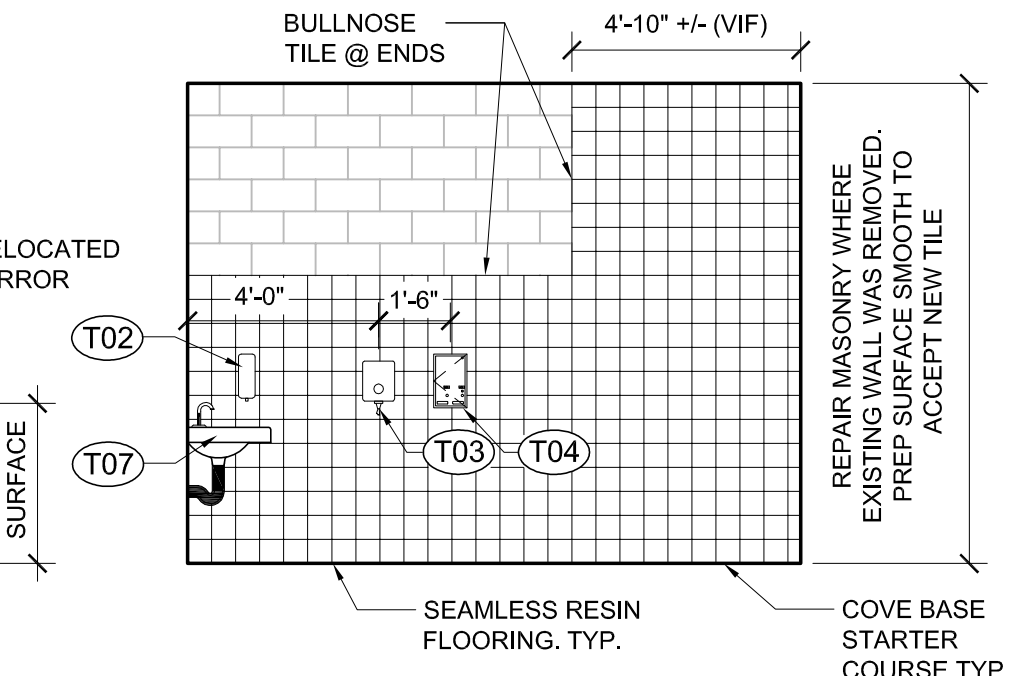
C STAFF TOILET PLAN
SCALE: 1/4"=1'-0"



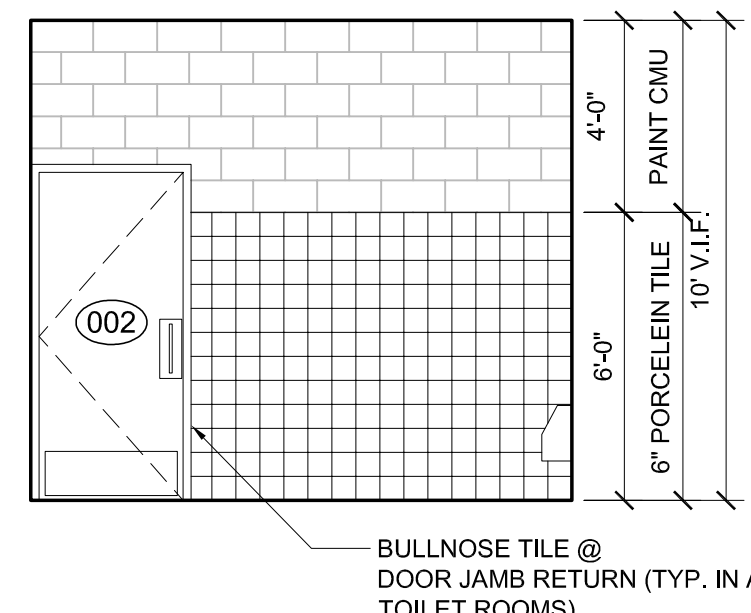
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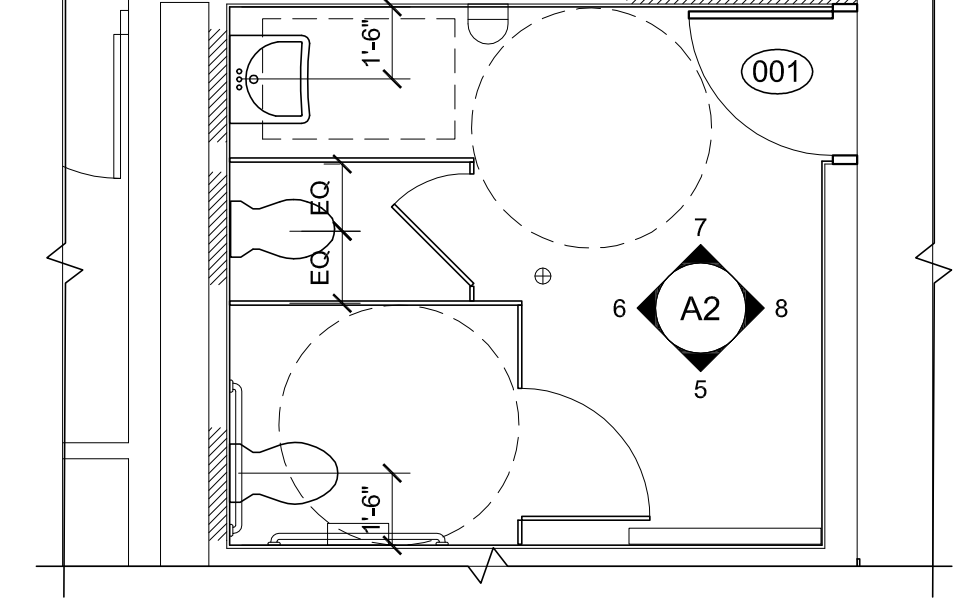
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SCALE: 1/4"=1'-0"



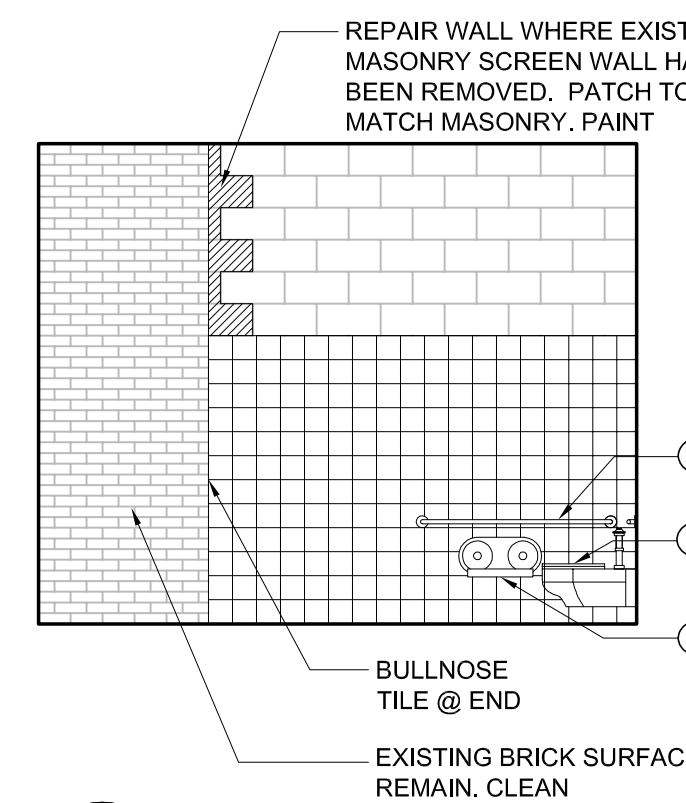
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SCALE: 1/4"=1'-0"



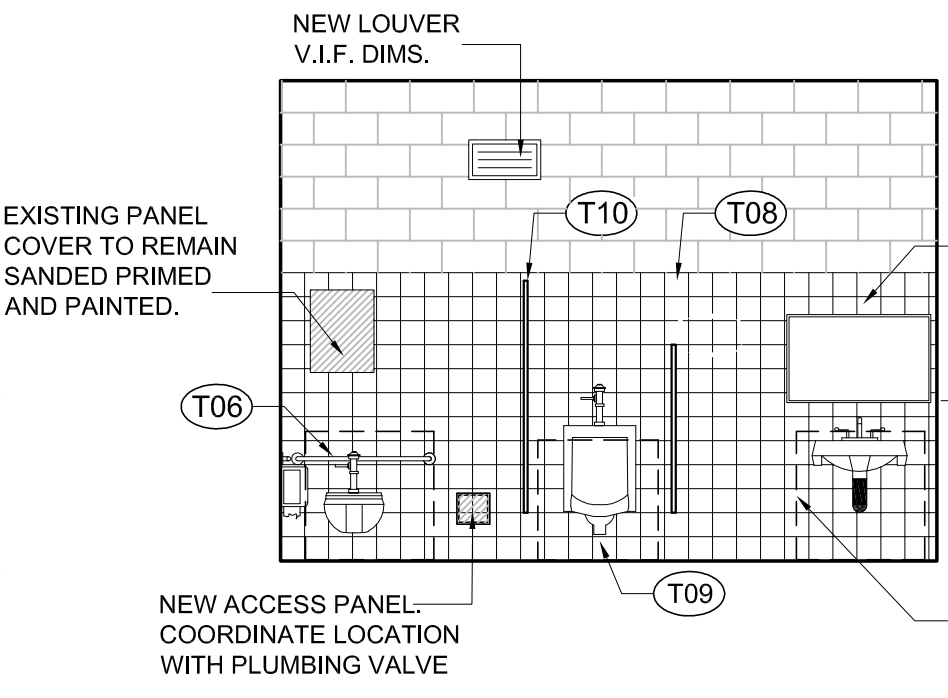
8 GIRLS TOILET
SCALE: 1/4"=1'-0"



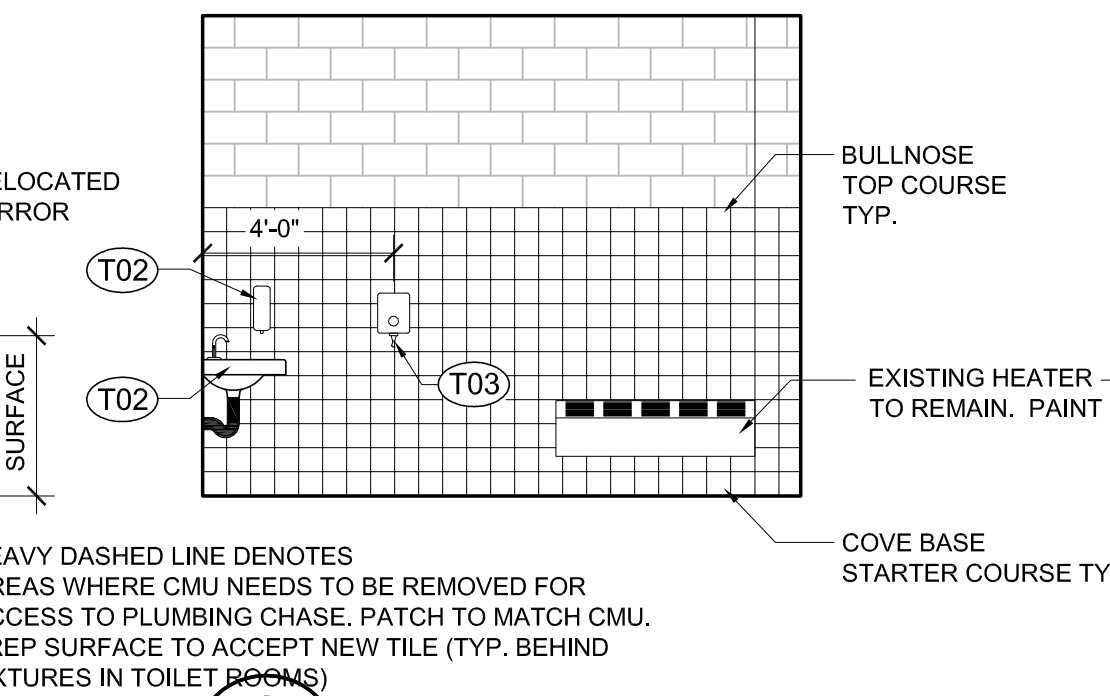
B GIRLS TOILET PLAN
SCALE: 1/4"=1'-0"



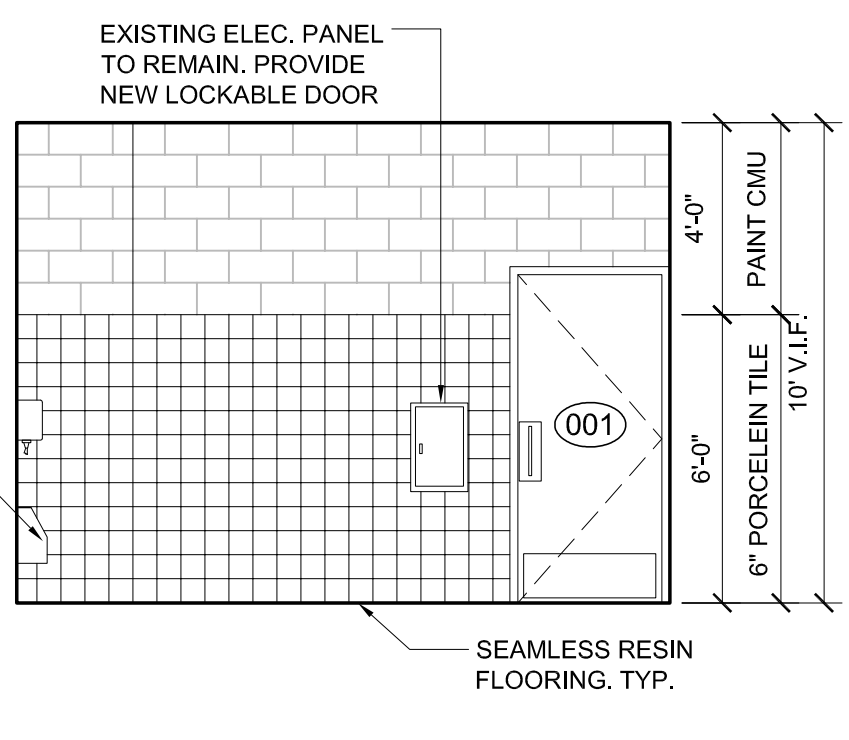
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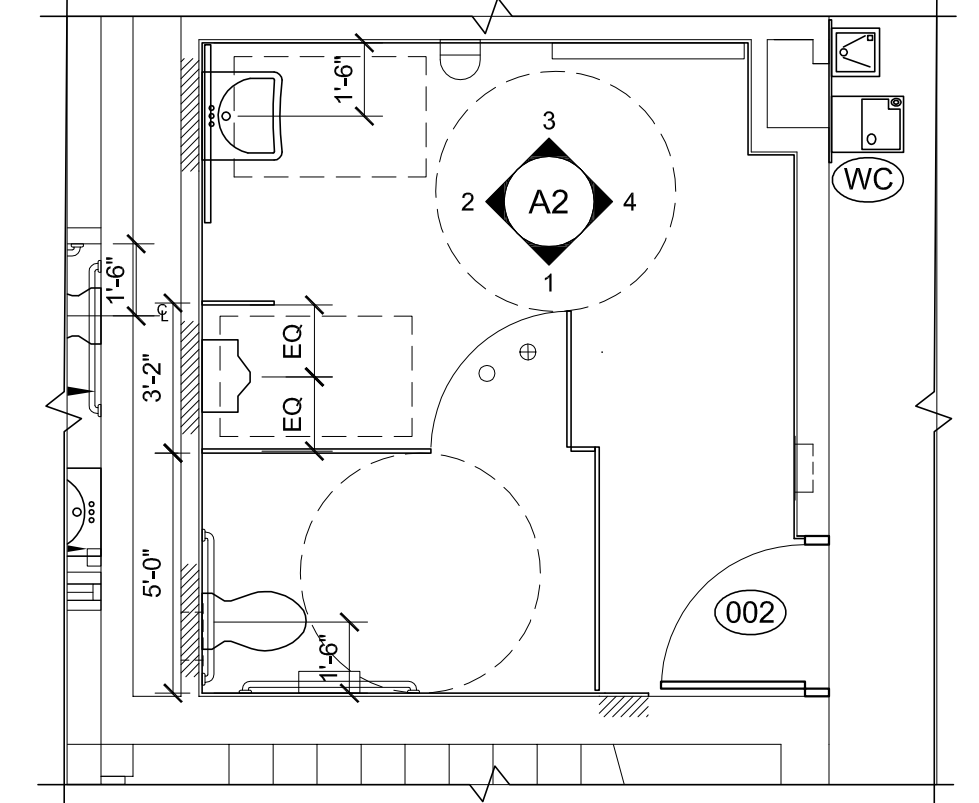
2 BOYS TOILET
SCALE: 1/4"=1'-0"



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



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



A BOYS TOILET PLAN
SCALE: 1/4"=1'-0"

6 THIRTEENTH STREET
CHARLESTOWN, MA. 02129
617-241-2807 (T)
617-241-2857 (F)

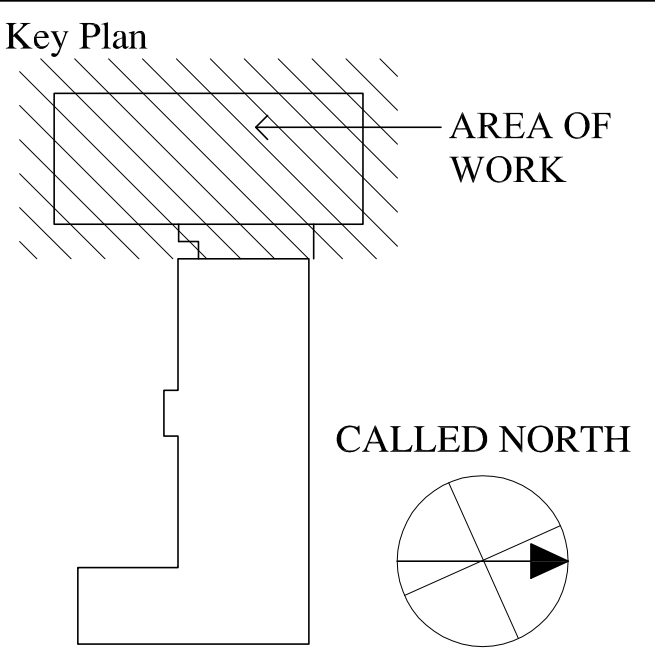
Designed By: Daniel P. Bradford

Drawn By: E.L. / T.K.

Checked By: Daniel P. Bradford

REV	DATE	DESCRIPTION

Stamp:



Lower Falls Community Center Accessibility Improvements

545 Grove Street
Newton Lower Falls MA. 02462

Drawing Name:

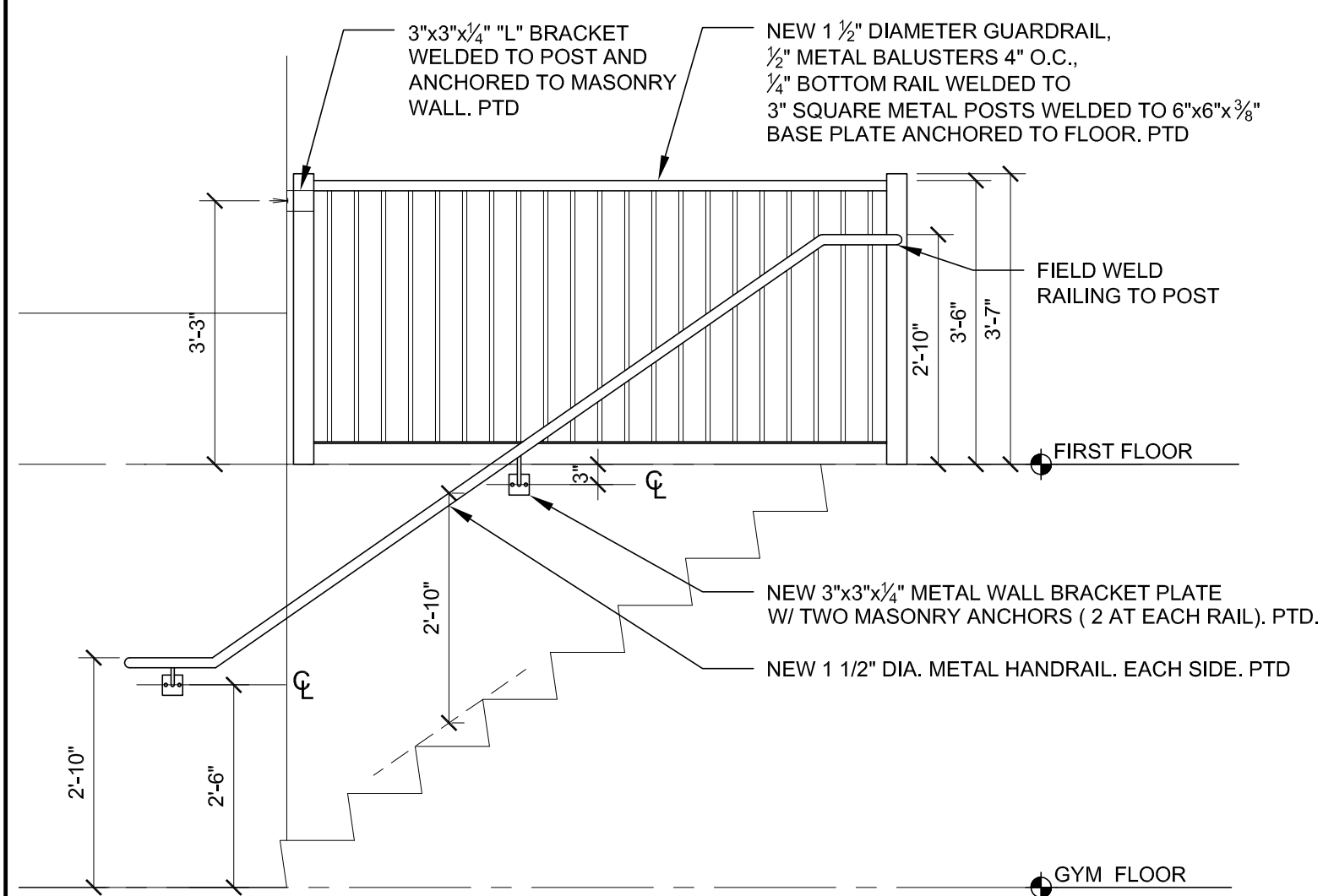
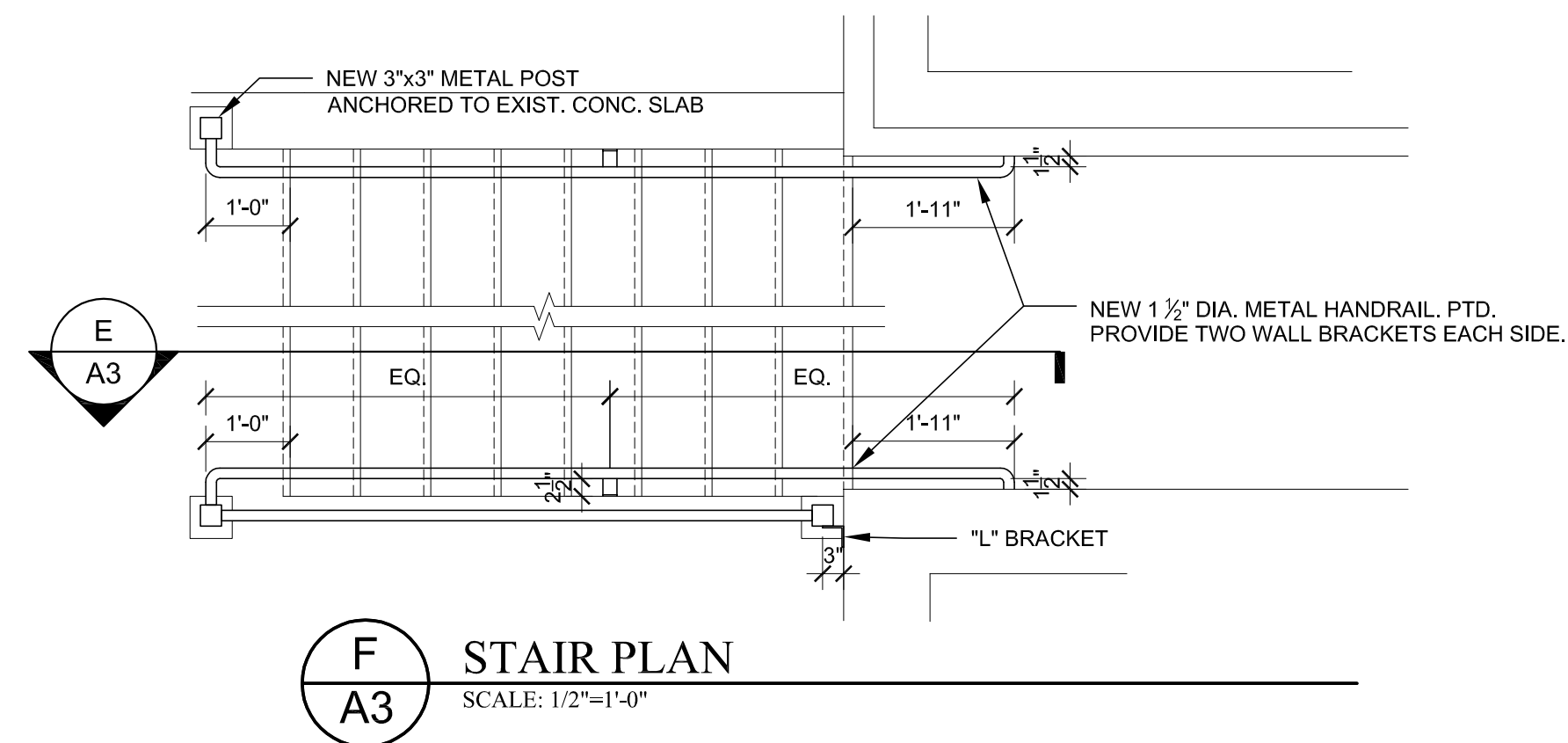
LIFT PLANS, SECTIONS & DETAILS

Job No.: **S116911-H**

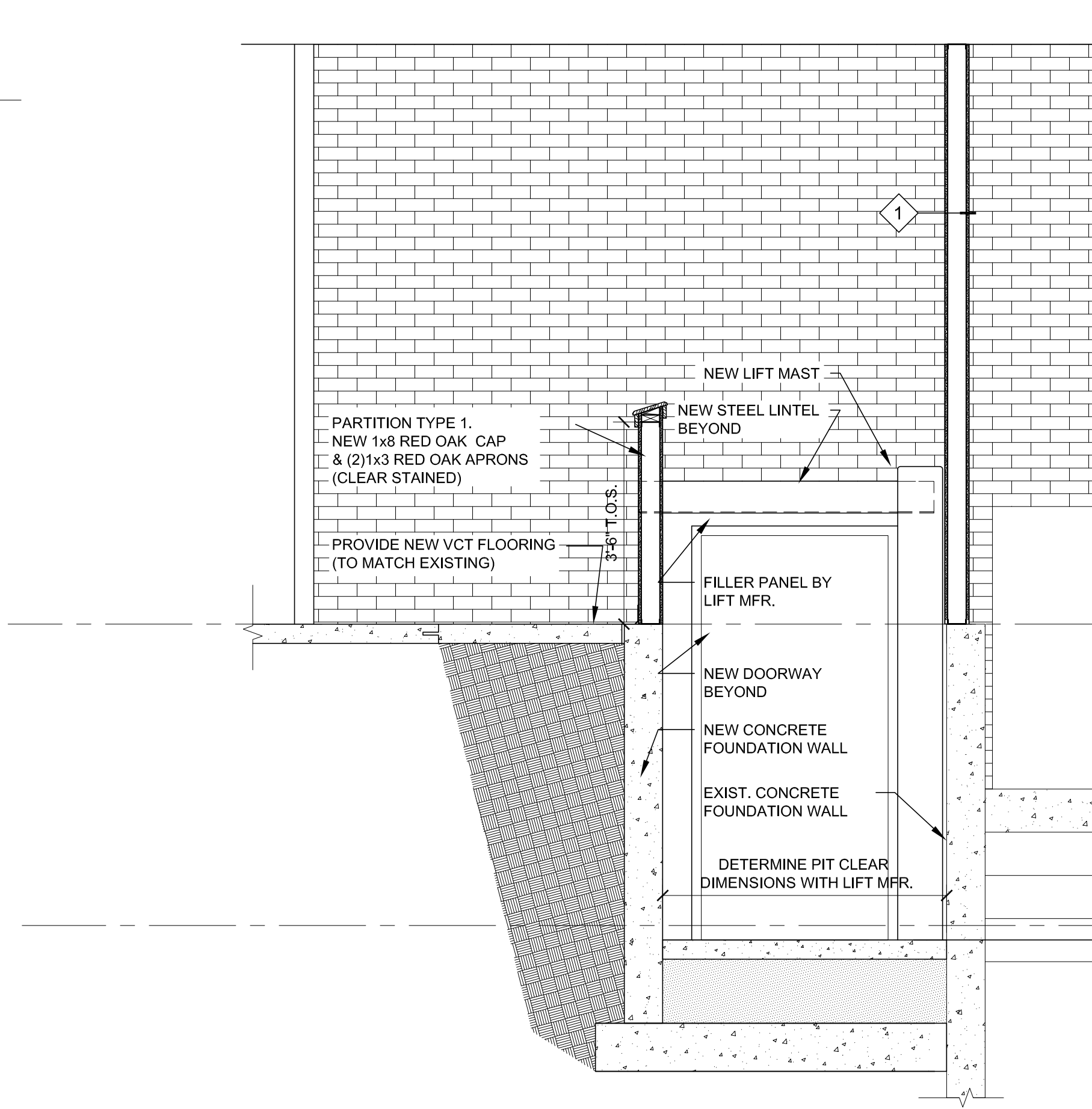
Drawing No.

Date: 4-4-13

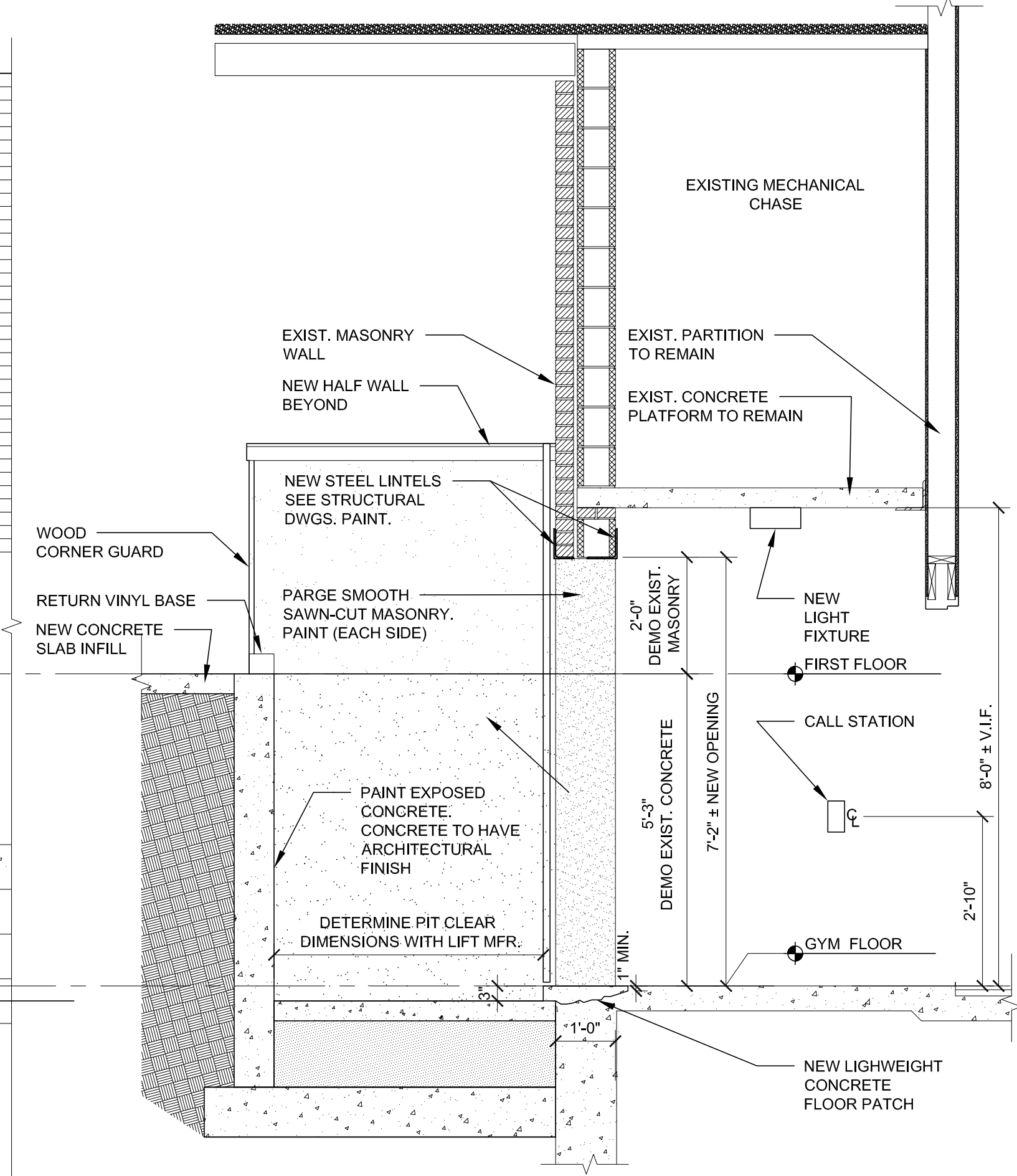
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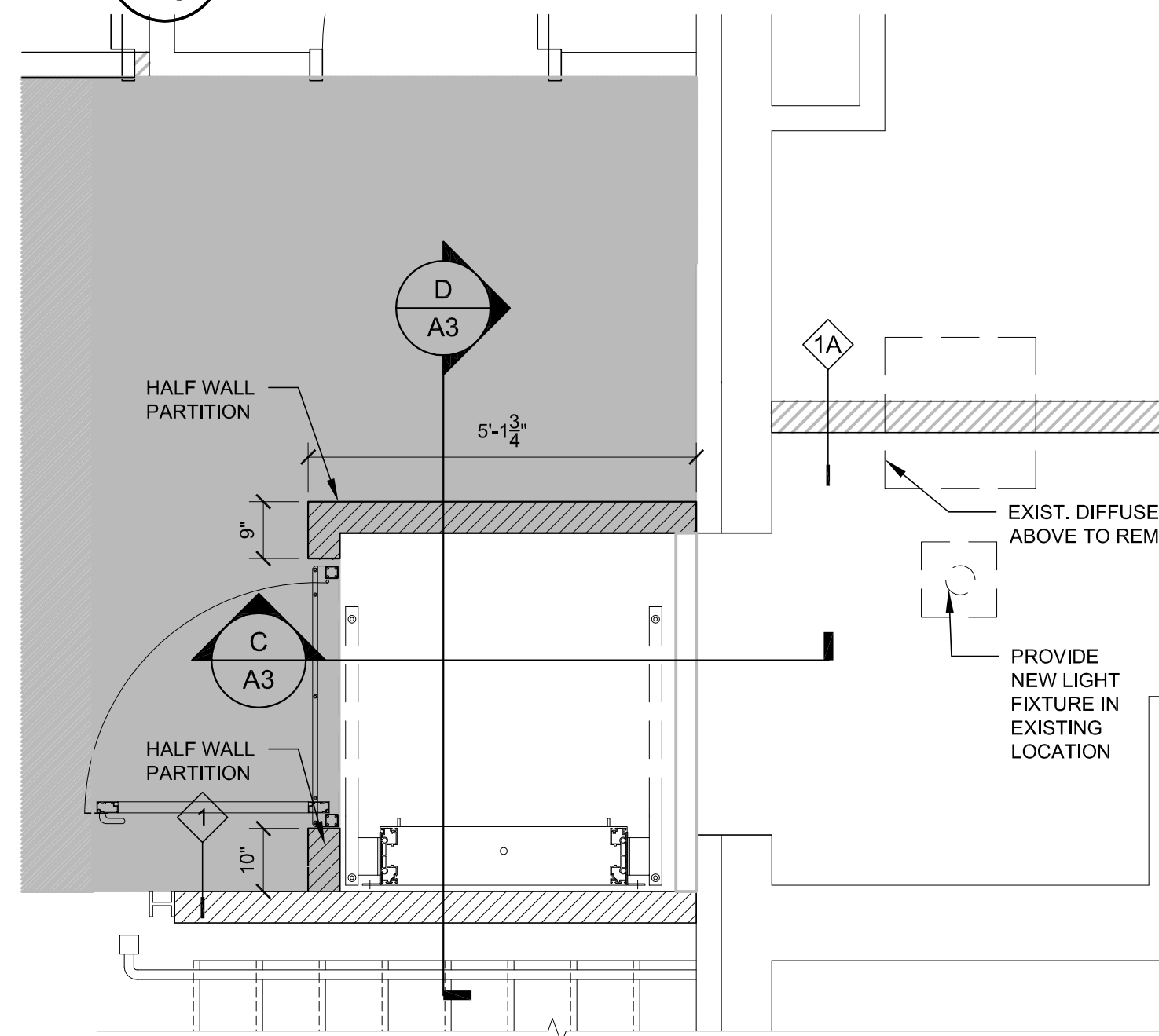
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A3
STAIR SECTION
SCALE: 1/2"=1'-0"



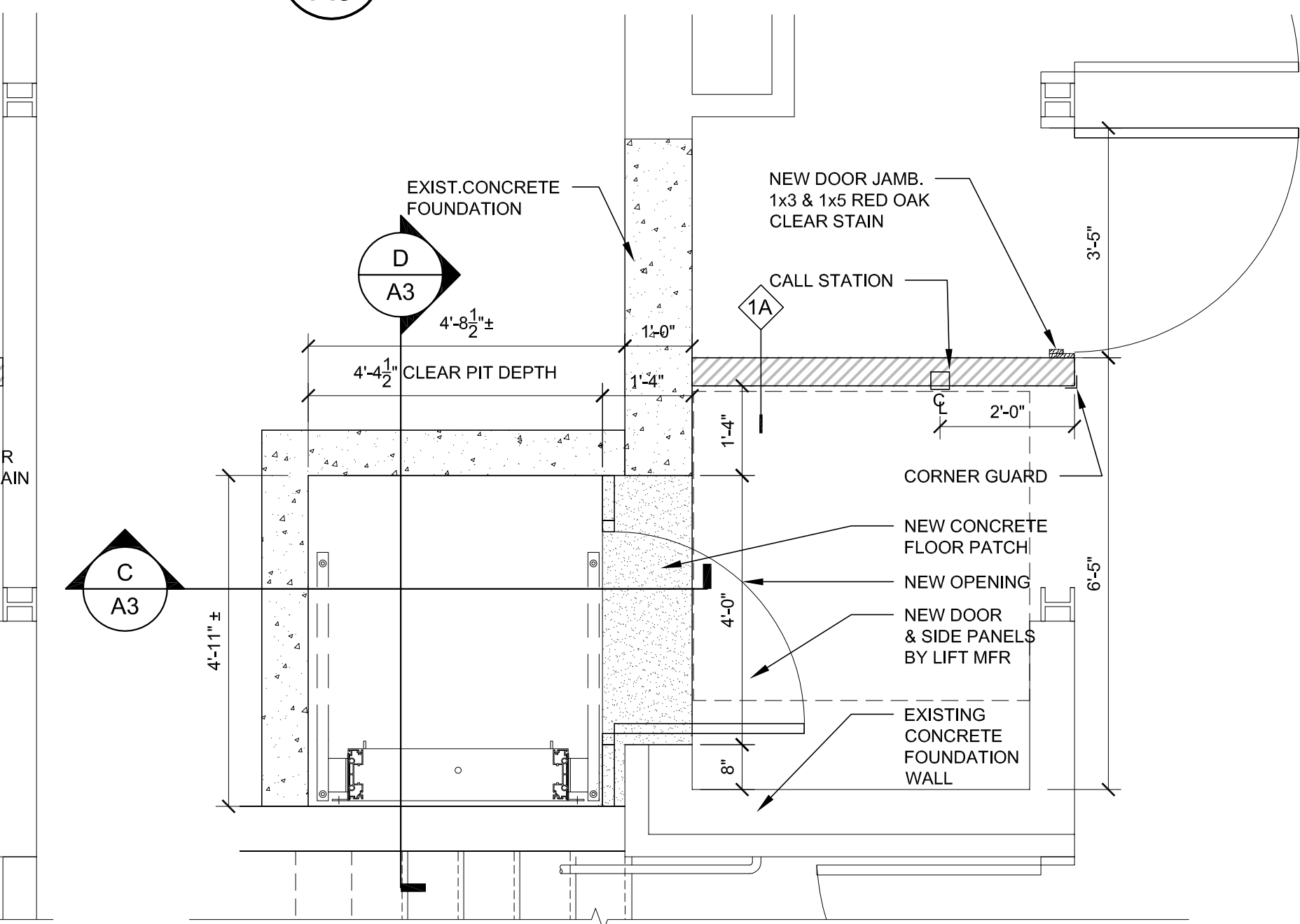
D
A3
NEW LIFT - SECTION B-B
SCALE: 1/2"=1'-0"



C
A3
NEW LIFT - SECTION A
SCALE: 1/2"=1'-0"



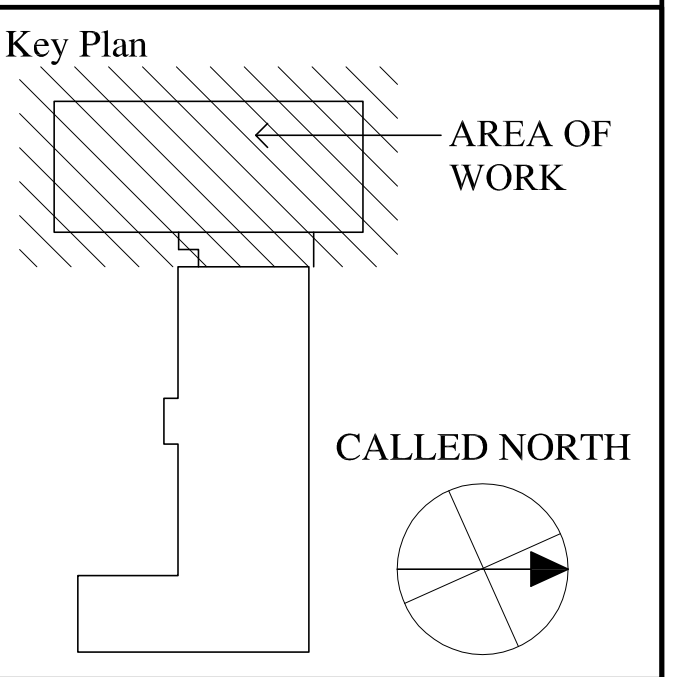
B
A3
NEW LIFT @ MAIN LEVEL
SCALE: 1/2"=1'-0"



A
A3
NEW LIFT @ GYMNASIUM LEVEL
SCALE: 1/2"=1'-0"

REV	DATE	DESCRIPTION

Stamp:



Lower Falls Community Center Accessibility Improvements
545 Grove Street
Newton Lower Falls MA. 02462

Drawing Name:
REFLECTED CEILING PLAN & DETAILS, DOOR SCHEDULE AND ALTERNATES

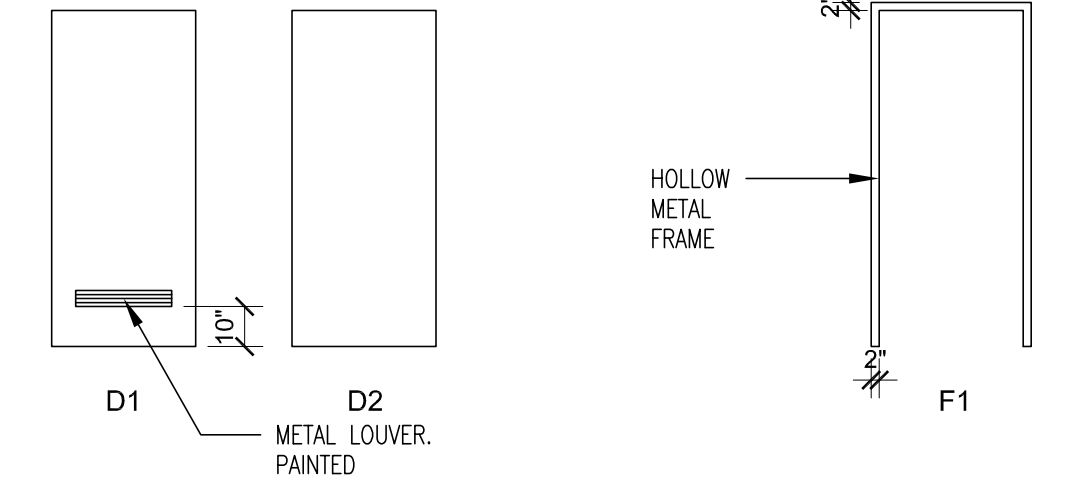
Job No.: S116911-H
Date: 4-4-13
Drawing No.: A4

BID DOCUMENTS

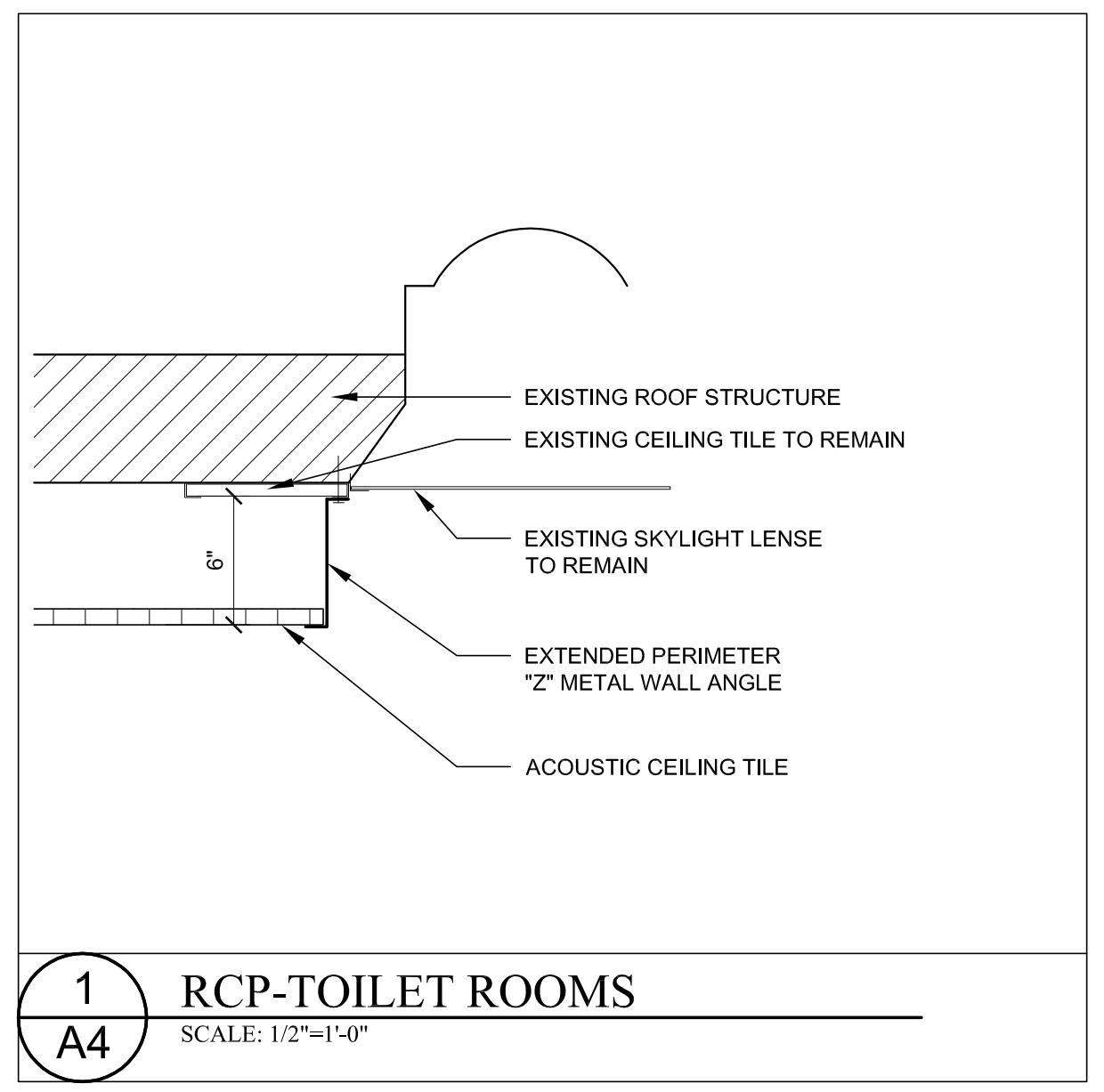
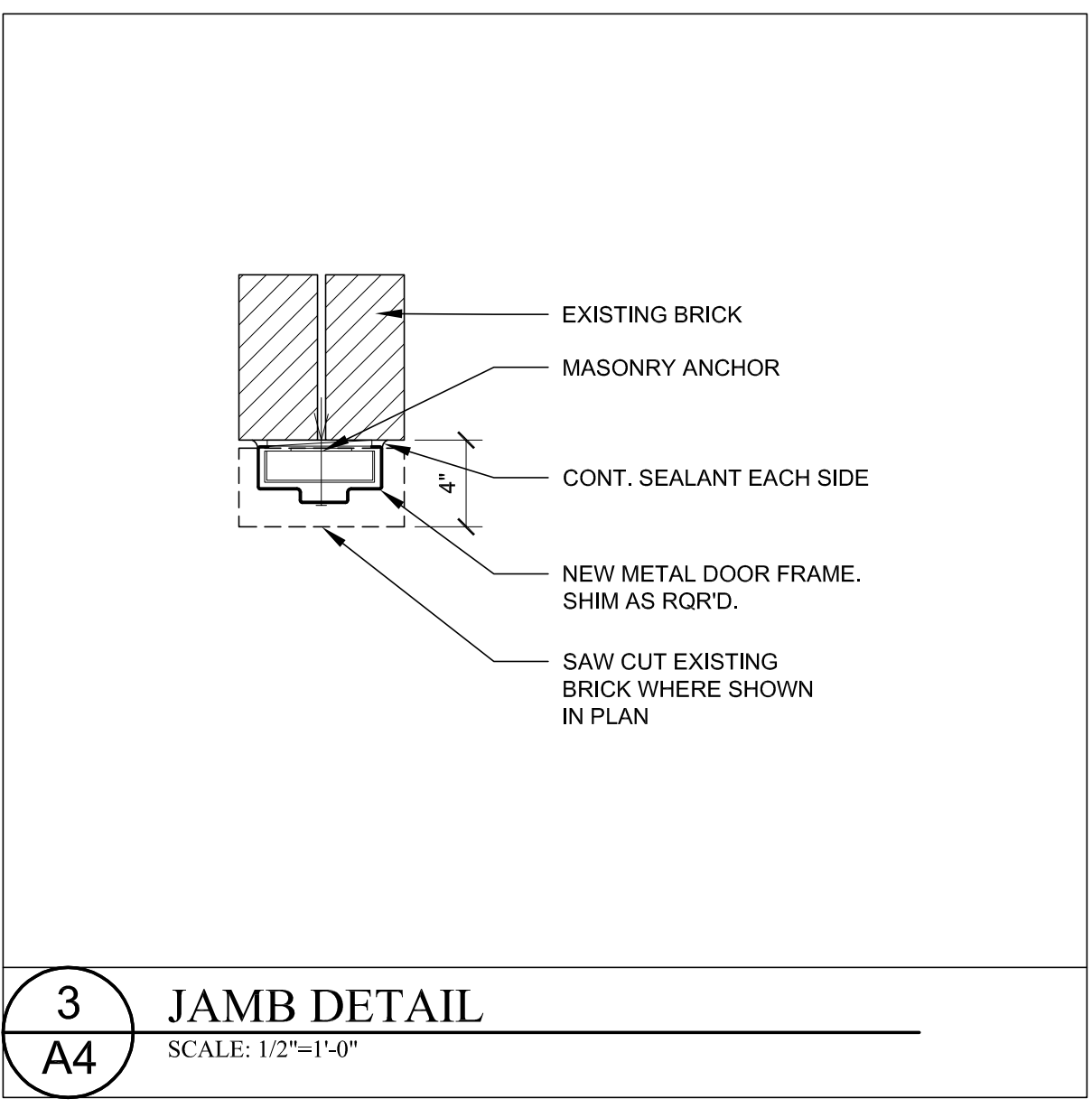
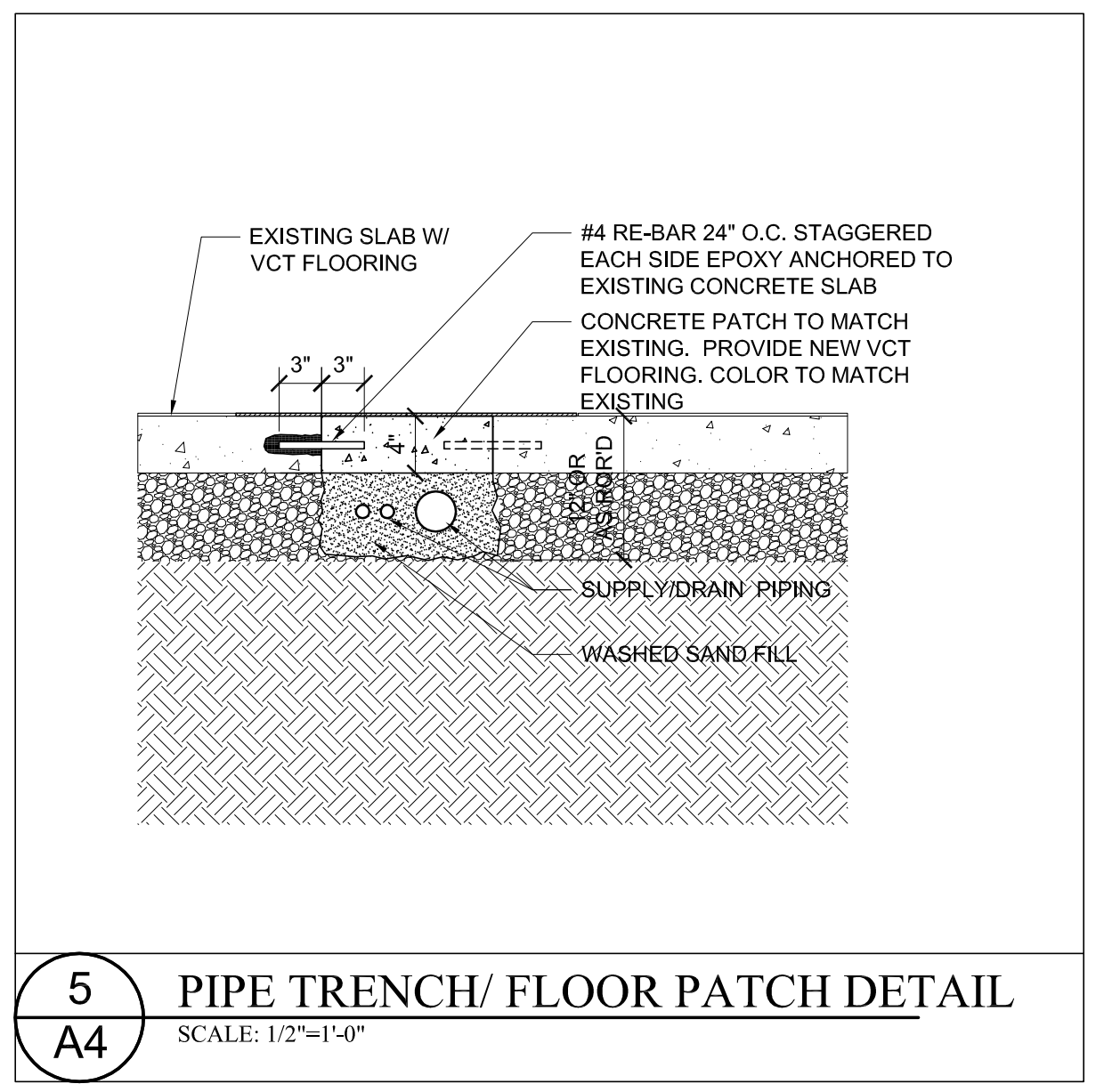
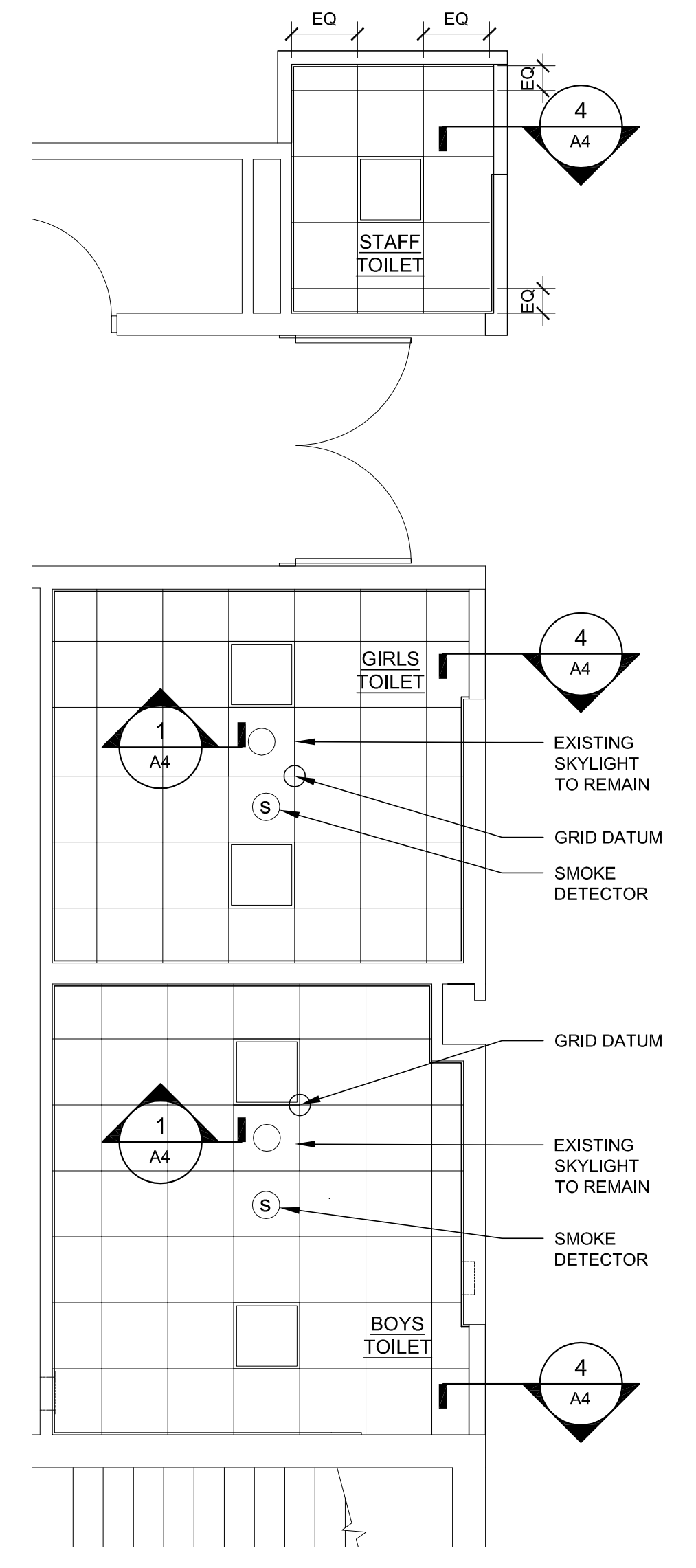
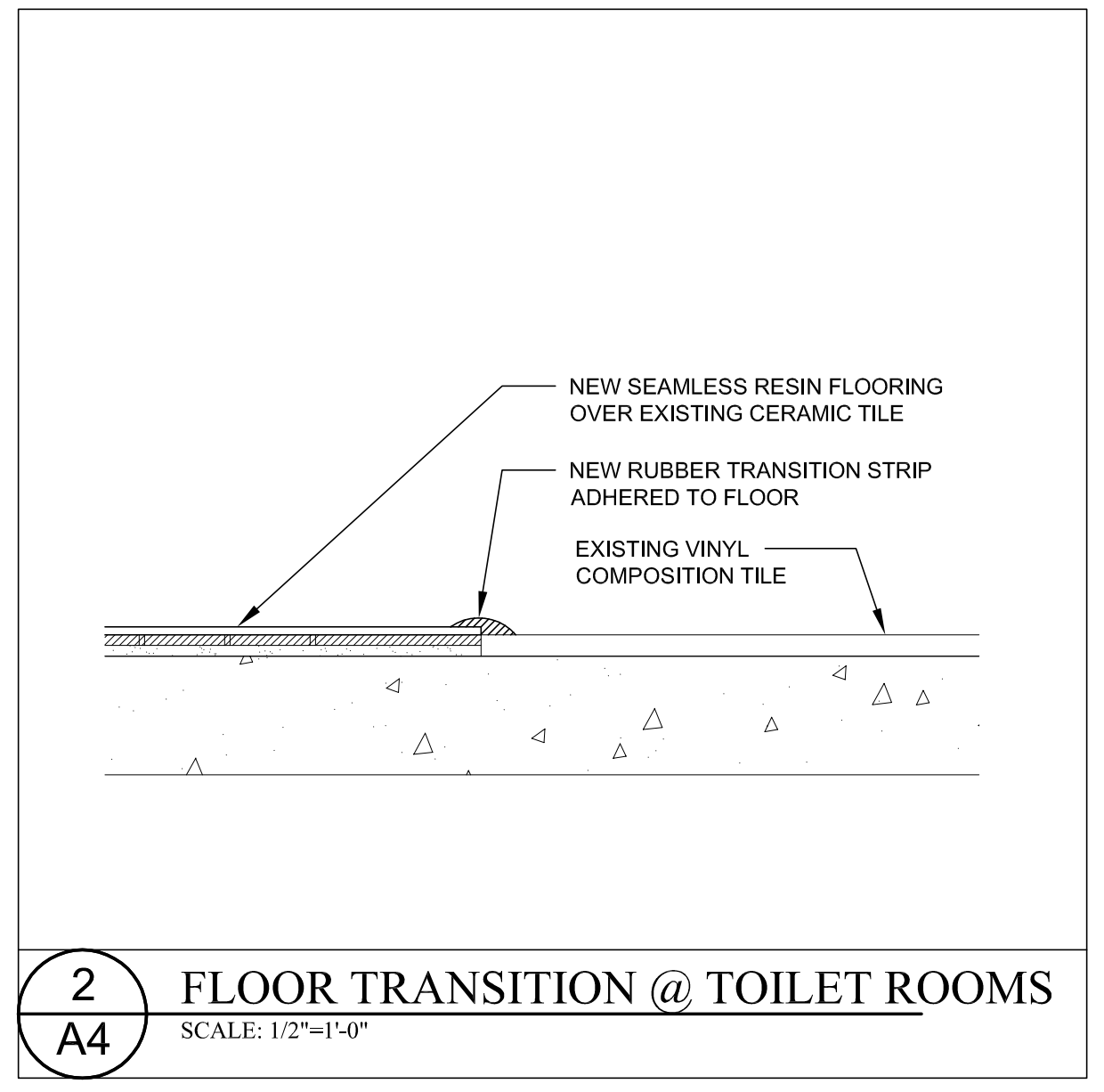
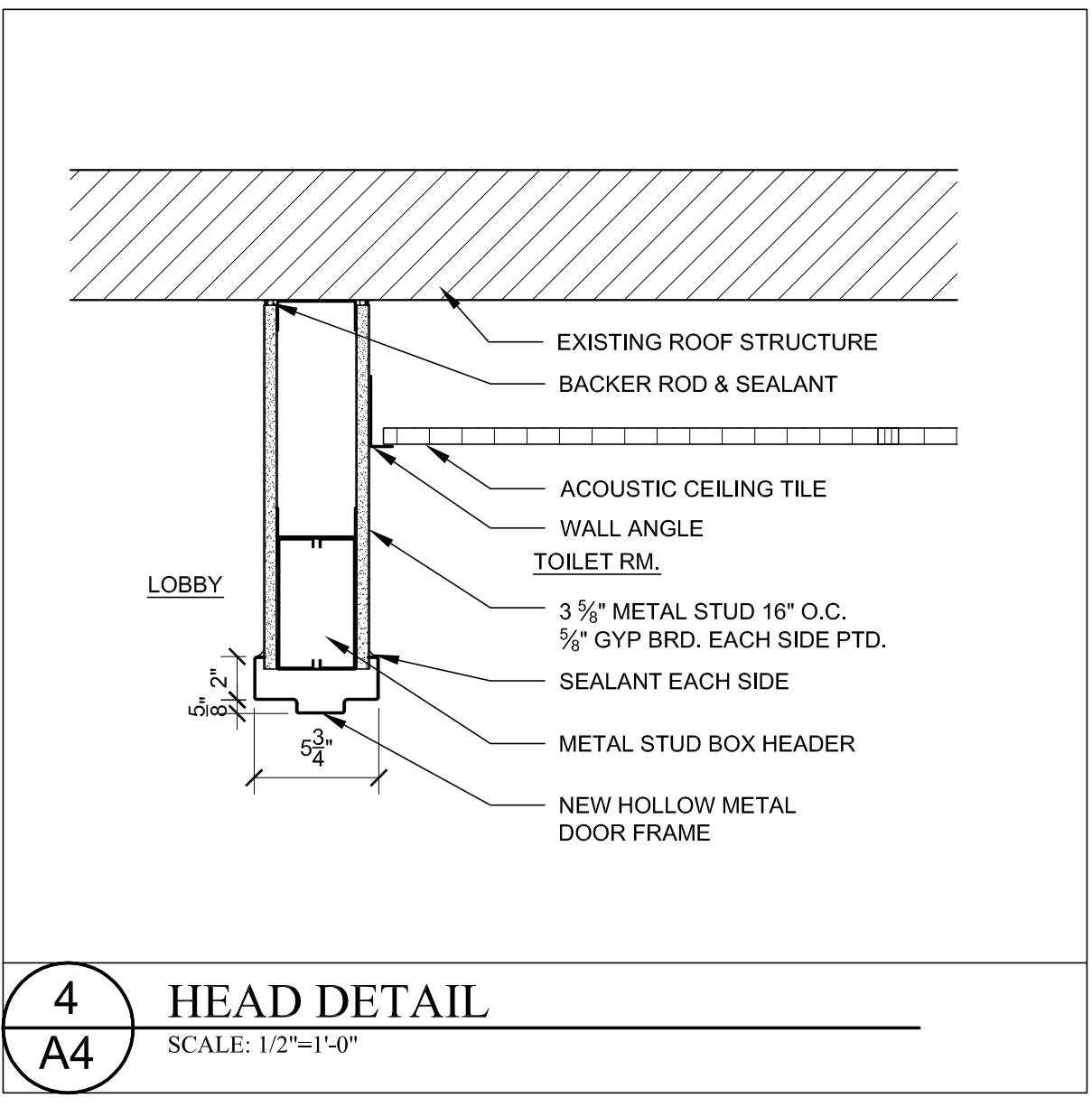
DOOR AND FRAME SCHEDULE

MARK	DOOR						FRAME						FIRE RATING LABEL	HARDWARE		NOTES	
	SIZE			MATL	EL	GLAZING	LOUVER		DETAIL			SET NO		KEYSIDE RM NO			
	WD	HGT	THK				WD	HGT	MATL	EL	HEAD				JAMB		SILL
001	3'-0"	7'-0"	1-3/4"	WD	D1	-	24"	4"	HM	F1	4/A4	3/A4	2/A4	-	1	-	
002	3'-0"	7'-0"	1-3/4"	WD	D1	-	24"	4"	HM	F1	4/A4	3/A4	2/A4	-	1	-	
003	3'-0"	7'-0"	1-3/4"	WD	D1	-	-	-	HM	F1	4/A4	3/A4	2/A4	-	2	-	1" UNDERCUT
004	3'-0"	7'-0"	1-3/4"	EXIST	EXIST	-	-	-	-	-	-	-	-	-	3	-	NOTE 1 & 2
005	3'-0"	7'-0"	1-3/4"	WD	D2	-	-	-	HM	F1	4/A4 *	4/A4 SIM	4/A4 SIM	-	3	-	(*) NO ACT
006	3'-0"	7'-0"	1-3/4"	EXIST	EXIST	-	-	-	-	-	-	-	-	-	3	-	NOTE 1 & 3
007	3'-0"	7'-0"	1-3/4"	EXIST	EXIST	-	-	-	-	-	-	-	-	-	4	-	
008	PR 3'-0"	7'-0"	1-3/4"	EXIST	EXIST	-	-	-	-	-	-	-	-	-	-	-	
009	3'-0"	7'-0"	1-3/4"	EXIST	EXIST	-	-	-	-	-	-	-	-	-	-	-	
010	3'-0"	7'-0"	1-3/4"	EXIST	EXIST	-	-	-	-	-	-	-	-	-	5	-	
011	3'-0"	7'-0"	1-3/4"	EXIST	EXIST	-	-	-	-	-	-	-	-	-	5	-	
012	3'-0"	7'-0"	1-3/4"	EXIST	EXIST	-	-	-	-	-	-	-	-	-	5	-	
013	3'-0"	7'-0"	1-3/4"	EXIST	EXIST	-	-	-	-	-	-	-	-	-	5	-	
014	3'-0"	7'-0"	1-3/4"	EXIST	EXIST	-	-	-	-	-	-	-	-	-	2	-	
015	3'-0"	7'-0"	1-3/4"	EXIST	EXIST	-	-	-	-	-	-	-	-	-	4	-	
016	3'-0"	7'-0"	1-3/4"	EXIST	EXIST	-	-	-	-	-	-	-	-	-	5	-	NOTE 1 & 3
017	3'-0"	7'-0"	1-3/4"	EXIST	EXIST	-	-	-	-	-	-	-	-	-	-	-	
018	3'-0"	7'-0"	1-3/4"	EXIST	EXIST	-	-	-	-	-	-	-	-	-	-	-	
019	3'-6"	7'-0"	1-1/2"	EXIST	EXIST	-	-	-	-	-	-	-	-	-	6	-	SEE NOTE IN PLAN

- NOTES
- REMOVE EXISTING LOCKSET AND INSTALL NEW LOCKSET.
 - EXISTING DOOR & FRAME RELOCATED.
 - EXISTING DOOR TO BE REMOVED AND RE-INSTALLED IN SAME OPENING WITH REVERSED SWING AS SHOWN IN PLAN. PATCH HOLES IN FRAME. PAINT FRAME.



DOOR ELEVATIONS SCALE: 1/4"=1'-0"
DOOR FRAME ELEVATIONS SCALE: 1/4"=1'-0"



GENERAL NOTES

GENERAL:

- 1. STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL, CIVIL, LANDSCAPE, AND SHOP DRAWINGS.
2. 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.
3. SHOP DRAWINGS FOR REINFORCING STEEL (INCLUDING ALL ACCESSORIES), AND NEW STEEL LINTELS SHALL BE SUBMITTED TO THE ARCHITECT AND A STAMPED ACCEPTANCE RECEIVED BEFORE FABRICATION CAN PROCEED. ERECTION SHALL BE EXECUTED FROM ACCEPTED SHOP DRAWINGS ONLY.
4. UNLESS OTHERWISE NOTED, DETAILS SHOWN ON ANY DRAWINGS ARE TO BE CONSIDERED TYPICAL FOR ALL SIMILAR CONDITIONS.
5. U.O.N. = UNLESS OTHERWISE NOTED.
6. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS AND/OR ELEVATIONS NOT SHOWN ON THE STRUCTURAL DRAWINGS.
7. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY TEMPORARY SHORING AND BRACING FOR THE BUILDING DURING THE ENTIRE CONSTRUCTION / RENOVATION PERIOD.
8. ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE LATEST EDITIONS (UNLESS NOTED OTHERWISE) OF THE FOLLOWING BUILDING CODES AND STANDARDS:
A. INTERNATIONAL BUILDING CODE 2009.
B. MASSACHUSETTS STATE BUILDING CODE, 8TH EDITION.
C. "AISC" - CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES
D. "ACI 318" - BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE
9. (e) DESIGNATION INDICATES AN EXISTING STRUCTURAL ELEMENT.

DESIGN LOADS: (PER 2009 INTERNATIONAL BUILDING CODE AND MSBC)

- 1. BUILDING ROOF LOADS
A. LIVE LOAD (SNOW) (PER SECTION 1608.0):
P_g = 55 PSF
P_f = 38 PSF
C_s = 0.9
C_t = 1
I = 1.1
B. ROOFING AND INSULATION: 10 PSF
C. SERVICES: 5 PSF
D. CEILING (WHERE THEY OCCUR): 3 PSF
E. STRUCTURE: ACTUAL WEIGHTS OF MATERIALS
2. PAVING SLABS (SLABS-ON-GRADE)
A. LIVE LOAD
TYPICAL AREAS: 100 PSF
3. WIND LOADING: (PER CHAPTER 34)
4. SEISMIC (PER CHAPTER 34): LEVEL 2 WORK
5. SOIL LOADS
A. EQUIVALENT FLUID PRESURE ON FOUNDATION WALLS:
RIGID WALLS 60 PCF
FLEXIBLE WALLS 40 PCF
B. PASSIVE EARTH PRESSURE COEFFICIENT: 3.0
C. FRICTION COEFFICIENT: 0.50
D. UNIT WEIGHT OF BACKFILL: 135 PCF

FOUNDATION:

- 1. WHERE SHOWN ON THE DRAWINGS, NEW FOUNDATIONS SHALL BEAR ON NATURAL UNDISTURBED SOIL OR ON WELL-COMPACTED STRUCTURAL FILL OVER THE NATURAL SOIL LAYER. THE DESIGN BEARING VALUE FOR ALL FOOTINGS SHALL BE 2 TSF.
2. THE ESTIMATED ELEVATION OF THE BOTTOM OF EACH EXISTING FOOTING IS INDICATED THUS (0'-0").
3. 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 PLACED.
4. FOR TYPICAL NEW SLAB-ON-GRADE CONSTRUCTION AND WHERE INDICATED, PROVIDE A 15-MIL VAPOR BARRIER OVER A WELL-COMPACTED AND PREPARED SUBGRADE.
5. REMOVE ALL UNSUITABLE SOIL AND REPLACE WITH CLEAN STRUCTURAL FILL, WHERE REQUIRED.

FOUNDATION (CONTINUED):

- 6. WHERE REQUIRED BENEATH PAVING SLABS OR FOOTINGS, STRUCTURAL FILL SHALL BE COMPACTED IN 12 INCH LAYERS TO AT LEAST 98 PERCENT OF THE MAXIMUM DRY DENSITY. STRUCTURAL FILL IS REQUIRED FROM THE TOP OF THE BEARING STRATUM TO THE BOTTOM OF THE PAVING SLAB.
7. THE DESIGN AND EXECUTION OF ALL TEMPORARY EARTH RETENTION SYSTEMS DURING CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.
CONCRETE: (CAST-IN-PLACE)
1. CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI AT 28 DAYS. ALL CONCRETE SHALL BE NORMAL WEIGHT (150 PCF MAXIMUM), EXCEPT "LEAN" CONCRETE, WHERE INDICATED, SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 1500 PSI.
2. ALL REINFORCING BARS SHALL CONFORM TO ASTM A615, GRADE 60 (DEFORMED), AND SHALL BE FREE FROM LOOSE RUST AND SCALE.
3. LAP ALL CONTINUOUS BARS 48 BAR DIAMETERS (MINIMUM).
4. ALL WELDED WIRE FABRIC (W.W.F.) SHALL CONFORM TO ASTM A185 (WITH A MINIMUM ULTIMATE TENSILE STRENGTH OF 70 KSI). LAP 2 SQUARES AT ALL JOINTS AND TIE @ 3'-0" ON CENTER.
5. CLEAR CONCRETE PROTECTION FOR REINFORCING: (UNLESS OTHERWISE NOTED).
A. FOUNDATION WALLS (AND OTHER CONCRETE ELEMENTS EXPOSED TO EARTH): 2"
B. SLABS-ON-GRADE: 1 1/2" FROM TOP (U.O.N.)
C. MAT SLABS: 2" FROM TOP; 3" FROM BOTTOM

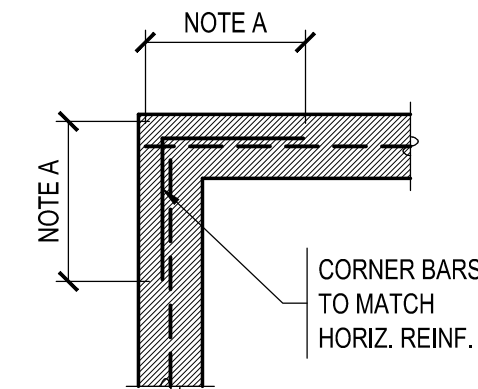
- 6. NO BARS SHALL BE CUT OR OMITTED IN THE FIELD BECAUSE OF SLEEVES, DUCT OPENINGS OR RECESSES. BARS MAY BE MOVED ASIDE WITHOUT CHANGE IN LEVEL WITH THE APPROVAL OF THE ARCHITECT.
7. NO PIPES SHALL PASS THROUGH CONCRETE WITHOUT THE PERMISSION OF THE ARCHITECT. STEEL PIPE SLEEVES SHALL BE PROVIDED AND SPACED A MINIMUM OF THREE PIPE DIAMETERS APART. ALL OTHER SLEEVE LOCATIONS MUST BE SUBMITTED FOR REVIEW.
8. ALL CONDUIT SHALL RUN ABOVE BOTTOM REINFORCING, BELOW TOP REINFORCING, AND INSIDE 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.
9. ALL KEYS SHALL BE 2" BY 4" WITH BEVELED SIDES (UNLESS OTHERWISE NOTED).
10. HORIZONTAL CONSTRUCTION JOINTS SHALL BE AS INDICATED ON THE DRAWINGS.
11. DETAILS NOT SHOWN ON THE DRAWINGS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE ACI DETAILING MANUAL 315.
12. 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'-6" PAST THE OUTERMOST CHAIR OR SUPPORT BAR.
13. 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.
14. ALL DOWELS FOR WALL REINFORCEMENT SHALL MATCH LAPPING BAR SIZE AND SPACING, U.O.N.
15. 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.
16. 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.
17. CONCRETE SHALL BE CAST MONOLITHICALLY, EXCEPT AS INDICATED ON THE DRAWINGS.

STRUCTURAL STEEL:

- 1. ALL STRUCTURAL STEEL MATERIALS, WORKMANSHIP, AND DETAILS SHALL CONFORM TO THE LATEST EDITION OF THE AISC "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS - ALLOWABLE STRESS DESIGN AND PLASTIC DESIGN" AND AISC "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES". STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING SPECIFICATIONS:
STRUCTURAL STEEL ANGLES.....ASTM A36, U.N.O.
2. ALL NEW STRUCTURAL STEEL FRAMING SHALL BE PRIMED, UNLESS OTHERWISE NOTED.
3. THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL NECESSARY MATERIAL IN ORDER TO PROPERLY CONNECT/ATTACH NEW LIFT FRAMING. THE SIZE AND LOCATION OF ALL NEW LIFT SUPPORT MEMBERS, AND ASSOCIATED CONNECTIONS, AND ANY REQUIRED INSERTS, SHALL BE DETERMINED AND PROVIDED BY THE LIFT MANUFACTURER.

EXISTING CONSTRUCTION:

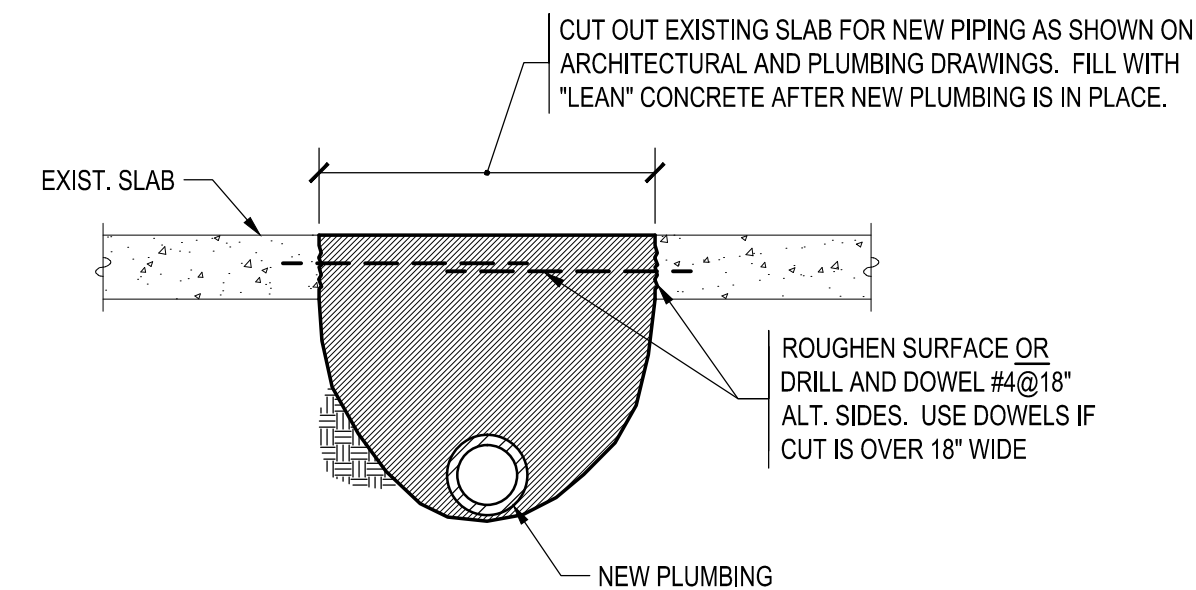
- 1. ALL INFORMATION RELATING TO THE EXISTING STRUCTURAL CONDITIONS HAS BEEN DERIVED FROM THE FOLLOWING STRUCTURAL DRAWINGS:
ADDITION TO THE HAMILTON SCHOOL NEWTON LOWER FALLS, MASSACHUSETTS, PREPARED BY EDWARD K. TRUE, DATED SEPTEMBER 27, 1957 (DRAWINGS S1 AND S2).
2. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS, DIMENSIONS AND MEMBER SIZES AS INDICATED ON THE DRAWINGS, IN THE FIELD. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE STRUCTURAL ENGINEER BEFORE PROCEEDING WITH THE AFFECTED PORTION OF THE WORK.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN AND EXECUTION OF ALL TEMPORARY BRACING, SHORING, AND EARTH RETENTION SYSTEMS, AS REQUIRED, TO PREVENT DANGER TO PERSONS AND PROPERTY.
4. ANY DIMENSION NOTED (±) ON PLAN SHALL BE COORDINATED AND VERIFIED BY THE CONTRACTOR, IN THE FIELD, PRIOR TO THE COMMENCEMENT OF WORK.



CORNER

NOTE A: REFER TO LAP SPICE LENGTH

TYPICAL CONCRETE WALL DETAILS



TYPICAL DETAIL AT NEW PLUMBING UNDER EXISTING SLAB



6 THIRTEENTH STREET CHARLESTOWN, MA. 02129 617-241-2807 (T) 617-241-2857 (F)

Designed By:

Drawn By: CY

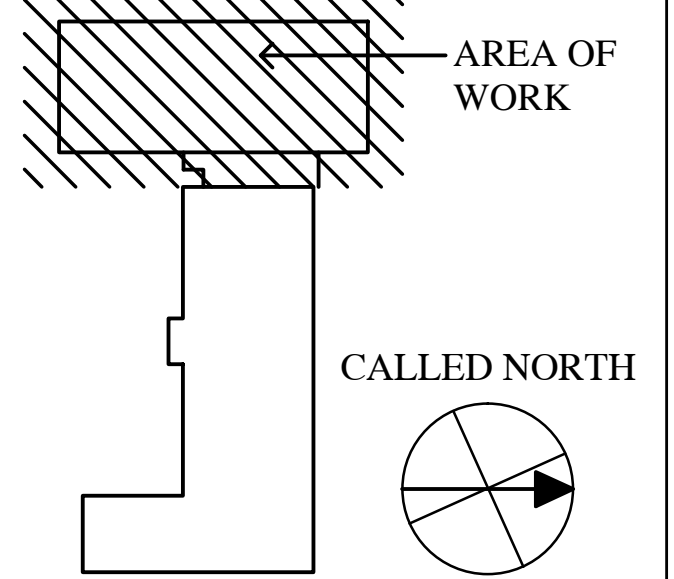
Checked By: JAY

Table with columns: REV, DATE, DESCRIPTION

Stamp:



Key Plan



Lower Falls Community Center Accessibility Improvements 545 Grove Street Newton Lower Falls MA. 02462

Drawing Name:

GENERAL NOTES AND TYPICAL DETAILS

Job No.: S116911-H Date: 4-4-13

Drawing No. S0

BID DOCUMENTS

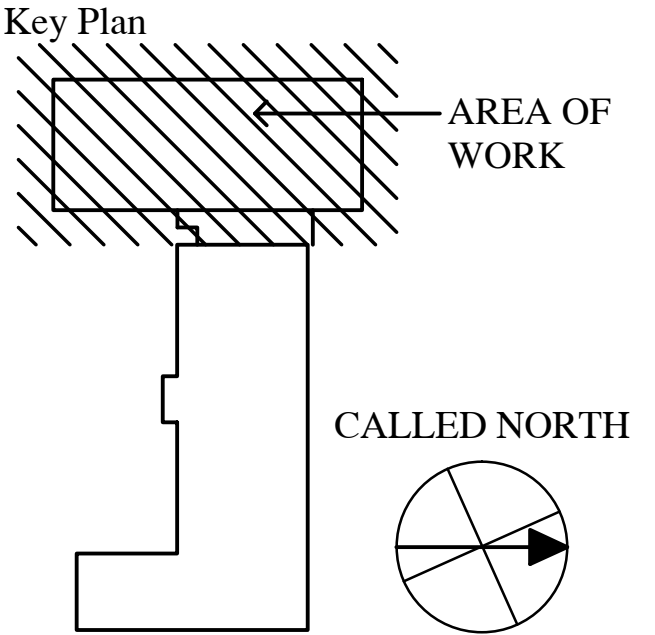
Designed By:

Drawn By: CY

Checked By: JAY

REV	DATE	DESCRIPTION

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**Lower Falls
Community Center
Accessibility
Improvements**
545 Grove Street
Newton Lower Falls
MA. 02462

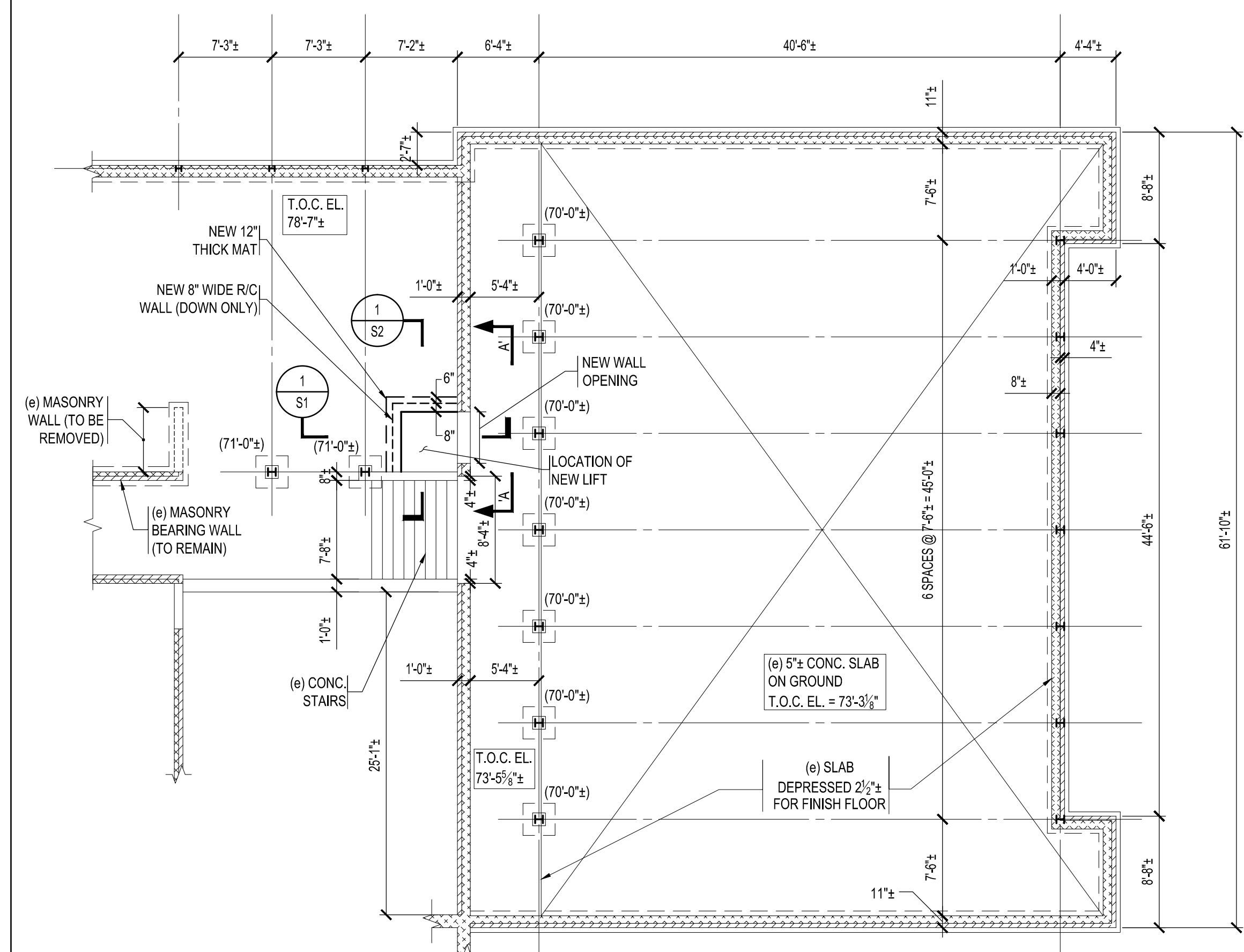
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**PARTIAL FLOOR
PLAN AND
SECTIONS**

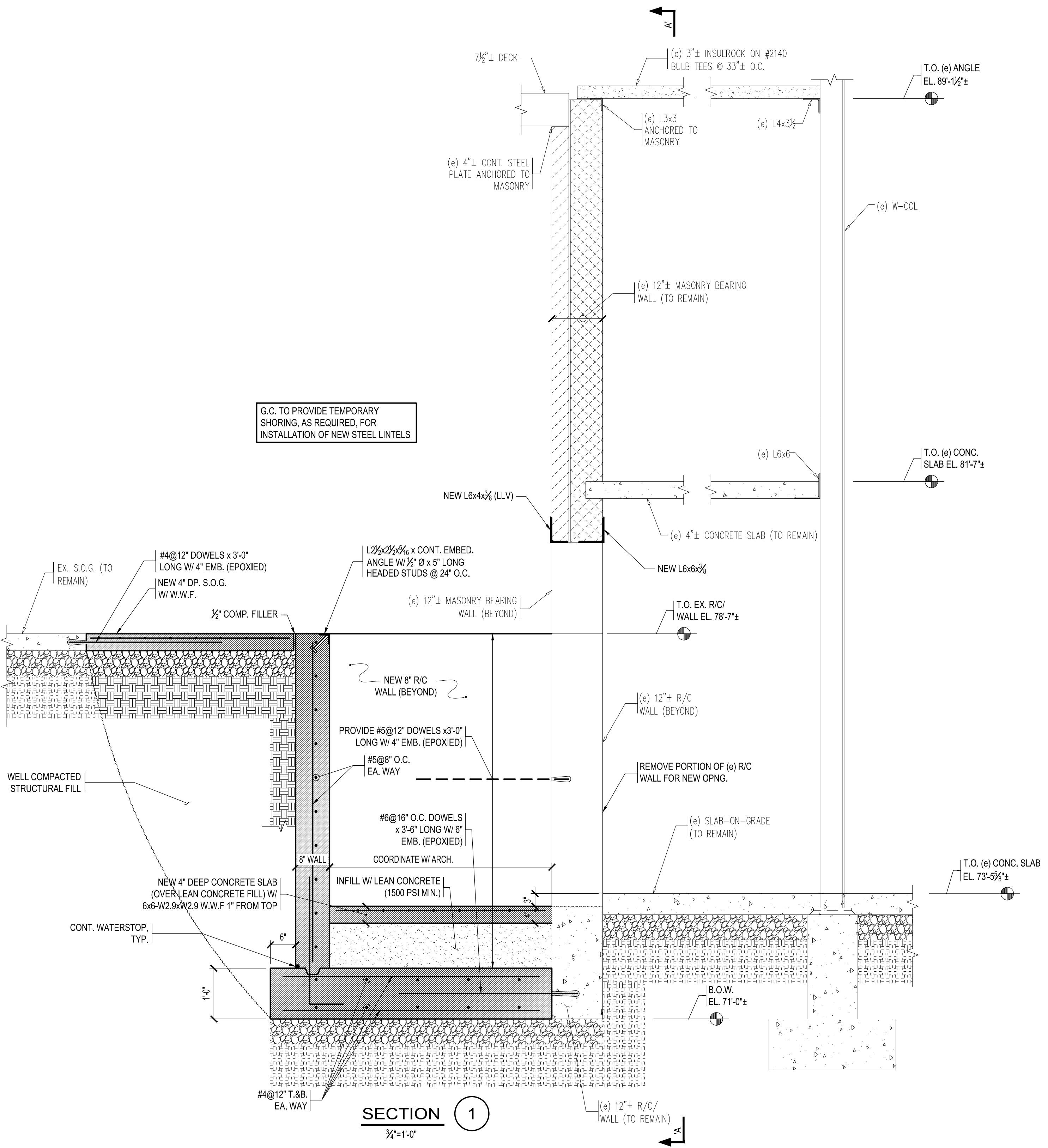
Job No.: S116911-H Drawing No. S1

Date: 4-4-13

BID DOCUMENTS



PARTIAL FIRST FLOOR PLAN
1/8"=1'-0"



SECTION 1
3/8"=1'-0"

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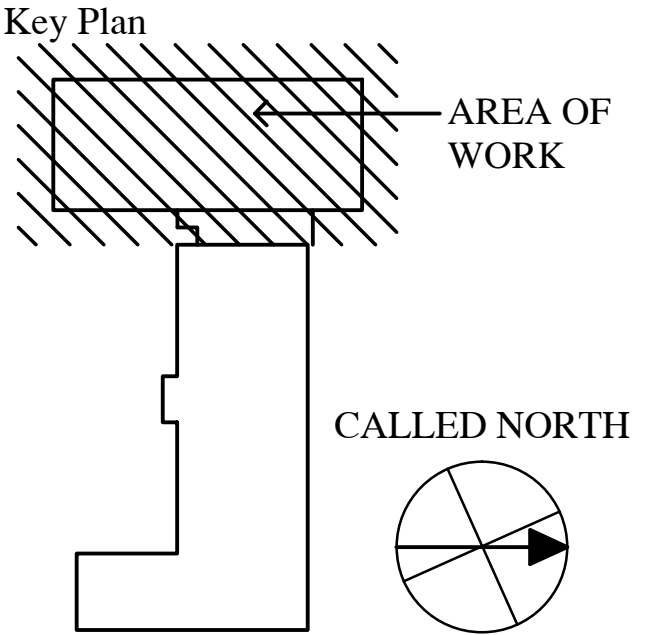
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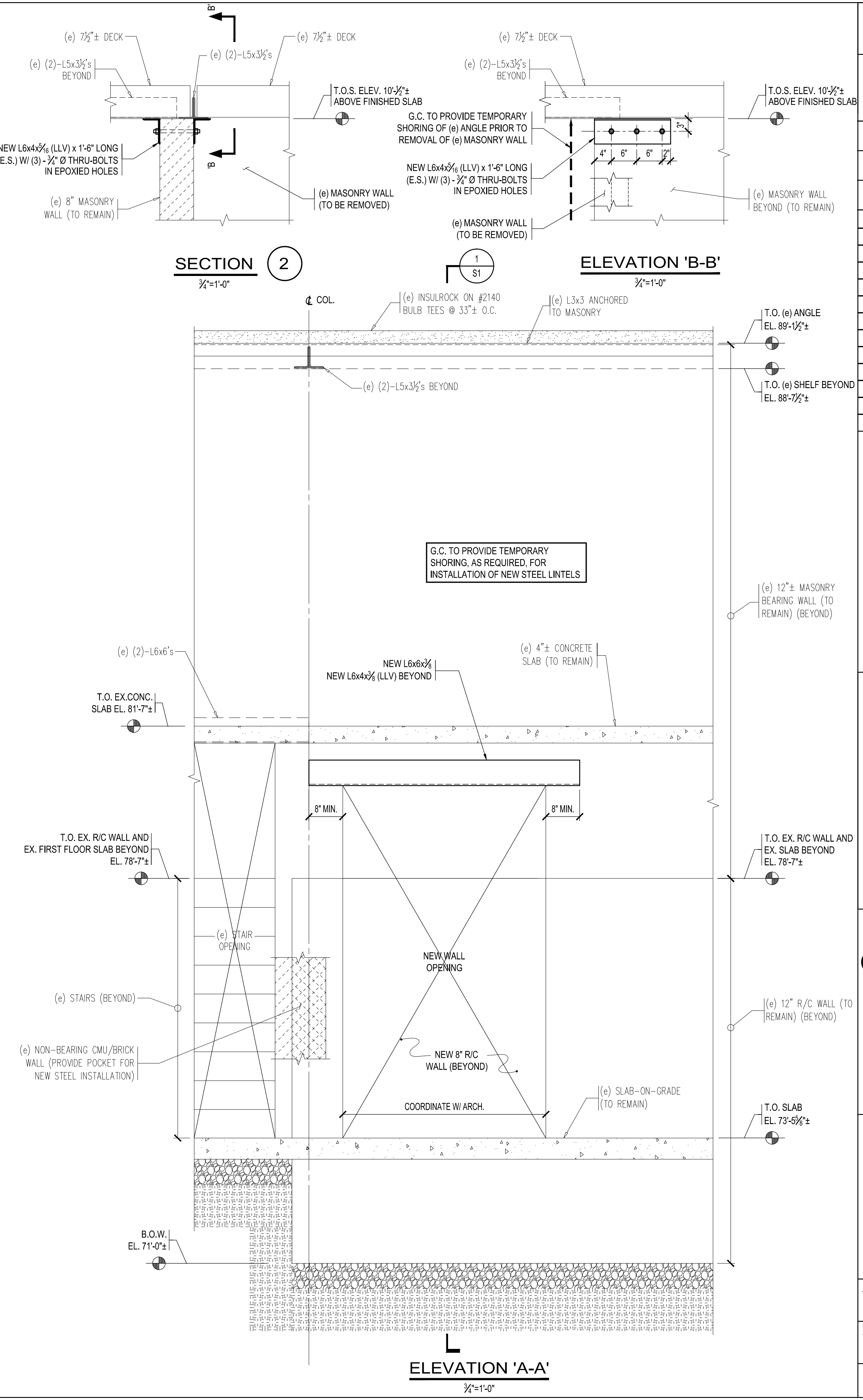
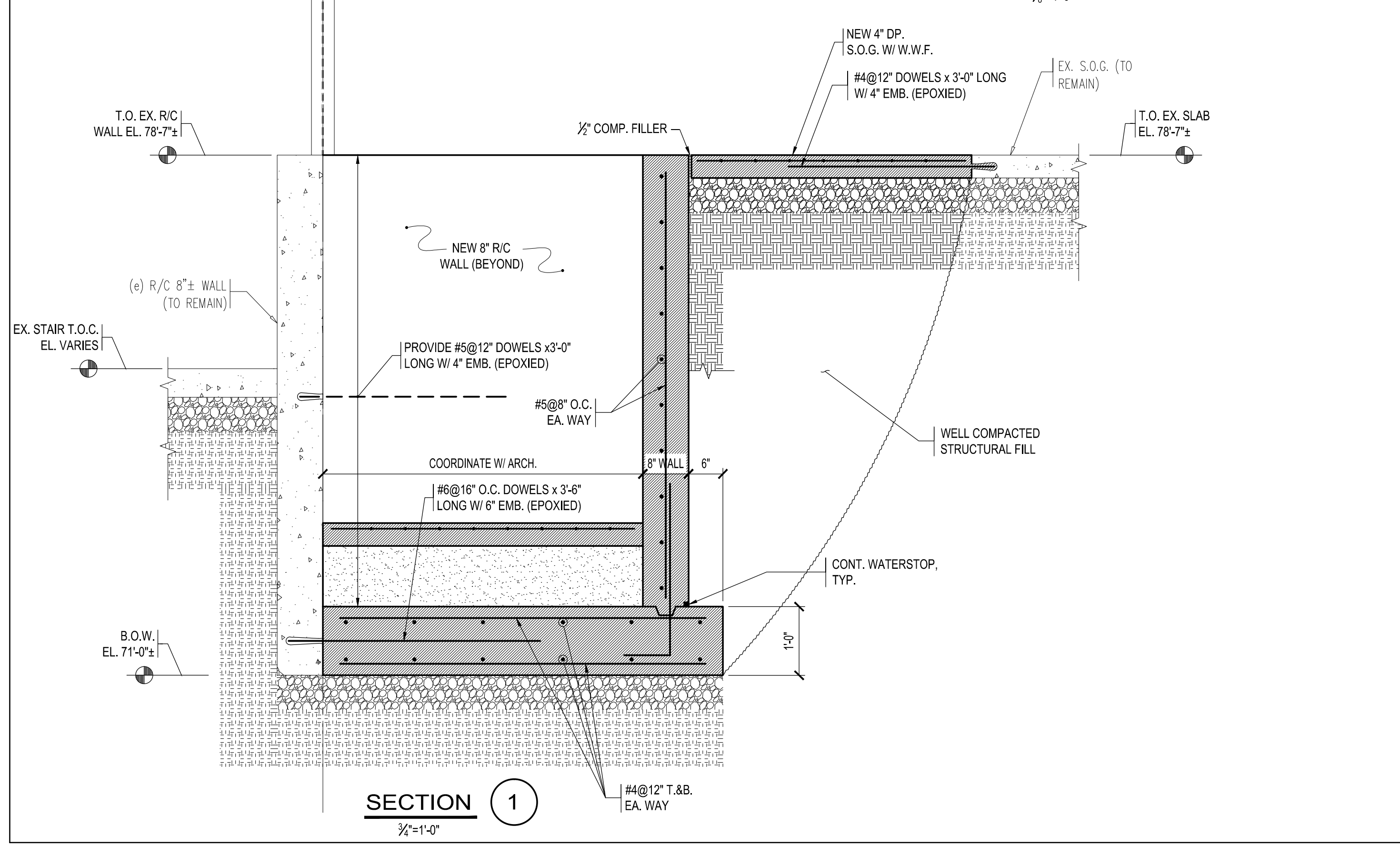
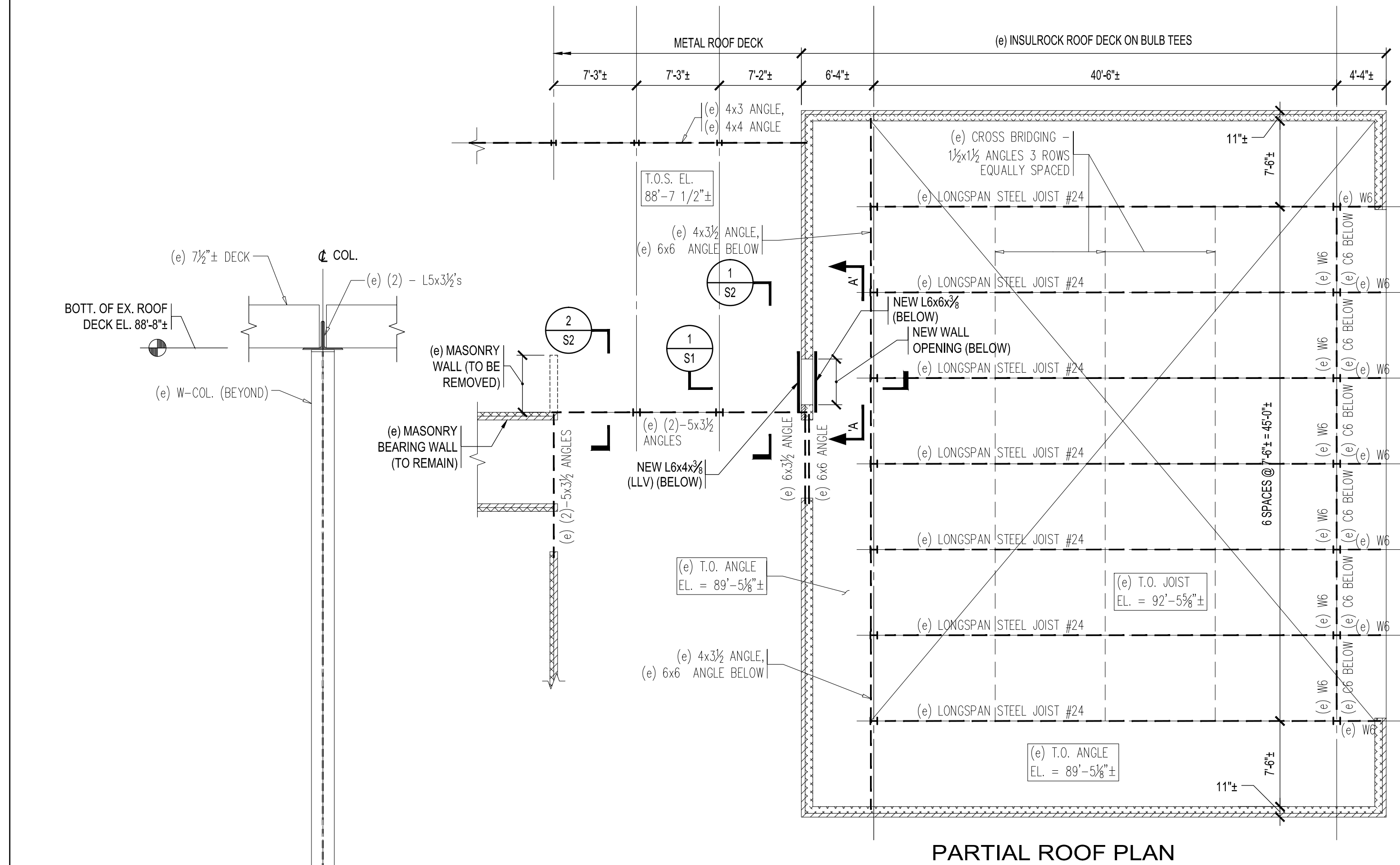
**Lower Falls
Community Center
Accessibility
Improvements**
545 Grove Street
Newton Lower Falls
MA. 02462

Drawing Name:

**PARTIAL ROOF
PLAN AND
SECTIONS**

Job No: S116911-H	Drawing No. S2
Date: 4-4-13	

BID DOCUMENTS



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ABBREVIATIONS

AFF	ABOVE FINISH FLOOR
BLDG	BUILDING
CFH	CUBIC FEET PER HOUR
CLG	CEILING
CP	CHROME PLATED
CO	CLEANOUT
CW	COLD WATER
CTE	CONNECT TO EXISTING
CONT	CONTINUATION
DCVA	DOUBLE CHECK VALVE ASSEMBLY
DIA	DIAMETER
DWG	DRAWING
DN	DOWN
EL./ELEV.	ELEVATION
EX	EXISTING
FFE	FINISH FLOOR ELEVATION
<u>P-#</u>	FIXTURE NUMBER
FLR	FLOOR
FCO	FLOOR CLEANOUT
FP	FIRE PROTECTION
FS	FLOW SWITCH
FT	FOOT
GPF	GALLON PER FLUSH
GPM	GALLON PER MINUTE
GC	GENERAL CONTRACTOR
GI	GREASE INTERCEPTOR
HC	HANDICAPPED
HW	HOT WATER
HWR	HOT WATER RETURN
INV	INVERT
IW	INDIRECT WASTE
LPC	LIMIT OF PLUMBING CONTRACTOR
MECH	MECHANICAL
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
NTS	NOT TO SCALE
NIC	NOT IN CONTRACT
OED	OPEN END DRAIN
PC	PLUMBING CONTRACTOR
PLBG	PLUMBING
PSI	POUNDS PER SQUARE INCH
RPBP	REDUCED PRESSURE BACKFLOW PREVENTER
SA	SHOCK ABSORBER
SS	SOIL STACK
SPEC	SPECIFICATION
TW	TEMPERED WATER
TYP	TYPICAL
V	VENT
VB	VACUUM BREAKER
VS	VENT STACK
VTR	VENT THRU ROOF
W	WASTE

GENERAL NOTES

1. PLUMBING WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF THE STATE PLUMBING AND GAS CODE INCLUDING ALL LOCAL AMENDMENTS.
2. OBTAIN ALL PERMITS AND PAY ALL FEES ASSOCIATED WITH THIS WORK PRIOR TO COMMENCEMENT.
3. THE DRAWINGS ARE DIAGRAMMATICAL ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT ROUTE OF ALL PIPING, IN FIELD AND IN CONJUNCTION WITH COORDINATION OF ALL EXISTING CONDITIONS, NEW CONSTRUCTION, AND COORDINATION WITH ALL OTHER TRADES TO INSURE THAT ALL THE PLUMBING SYSTEMS WILL FIT INTO THE SPACE.
4. EQUIPMENT SHALL BE DETERMINED IN THE FIELD.
5. IN ADDITION TO REVIEWING AND COORDINATING WITH THE OTHER TRADES (CIVIL, STRUCTURAL, ARCHITECTURAL, FIRE PROTECTION, HVAC, AND ELELCTRICAL) THE CONTRACTOR SHALL VISIT THE SITE AND FAMILIARIZE HIMSELF WITH DETAILS OF CONSTRUCTION.
6. ALL EXISTING CONDITIONS SHOWN ARE APPROXIMATE ONLY. ALL EXISTING CONDITIONS SHALL BE VERIFIED IN THE FIELD.
7. ADDRESS QUESTIONS REGARDING DRAWINGS TO ARCHITECT IN WRITING BEFORE AWARD OF CONTRACT. OTHERWISE, ARCHITECT INTERPRETATION OF MEANING AND INTENT OF DRAWINGS SHALL BE FINAL.
8. VISIT SITE AND EXAMINE CONDITIONS UNDER WHICH WORK MUST BE PERFORMED. REPORT ADVERSE CONDITIONS IN WRITING TO ARCHITECT. COMMENCEMENT OF WORK SHALL BE CONSTRUED AS COMPLETE ACCEPTANCE OF EXISTING CONDITIONS INCLUDING PREPARATORY WORK DONE BY OTHERS.
9. GUARANTEE WORK IN WRITING FOR ONE YEAR FROM DATE OF FINAL ACCEPTANCE. REPAIR OR REPLACE DEFECTIVE MATERIALS OR INSTALLATION AT NO COST TO OWNER. CORRECT DAMAGE CAUSED IN MAKING NECESSARY REPAIRS AND REPLACEMENTS UNDER GUARANTEE AT NO COST TO OWNER.
10. FURNISH AND INSTALL ALL NECESSARY PIPING, EQUIPMENT SUPPORTS AND ANY EQUIPMENT NOT SHOWN ON DRAWINGS OR CALLED FOR IN THE SPECIFICATIONS BUT NECESSARY TO PROVIDE A COMPLETE FUNCTIONING SYSTEM.
11. PROVIDE ACCESS TO ALL EQUIPMENT REQUIRING PERIODIC SERVICE AND MAINTENANCE.
12. FURNISH ACCESS PANELS TO THE GENERAL CONTRACTOR FOR INSTALLATION UNDER THE RELATED TRADES.
13. PIPING SHALL RUN CONCEALED IN ALL AREAS WITH THE EXCEPTION OF MECHANICAL ROOMS, AREAS WHERE NO CEILING EXISTS OR WHERE NOTED ON THE PLANS.
14. INSTALL DIELECTRIC COUPLINGS BETWEEN DISSIMILAR MATERIALS.
15. INTERRUPTIONS TO EXISTING SERVICES AND SYSTEMS SHALL BE AS SHORT AS POSSIBLE AND AT A TIME AND DURATION APPROVED BY THE ARCHITECT OR OWNER. INCLUDE ALL PREMIUM TIME ASSOCIATED WITH INTERRUPTIONS.
16. ALL NEW SYSTEMS SHALL BE TESTED, BALANCED AND ADJUSTED TO INSURE PROPER OPERATION AND CODE COMPLIANT INSTALLATION. PIPING AND EQUIPMENT SHALL BE TESTED IN ACCORDANCE WITH THE STATE PLUMBING CODE.
17. INSTALL SHOCK ABSORBERS BY PRECISION PLUMBING PRODUCTS AT ENDS OF HOT AND COLD WATER PIPING RUNS BELOW THE LAST FIXTURE.
18. THE PLUMBING CONTRACTOR SHALL FURNISH AND INSTALL ALL TRAPS, ANGLE STOPS, WASTE ARMS, STRAINERS, TAIL PIECES, FIXTURE SUPPLIES AND ALL OTHER PLUMBING CONNECTIONS TO FIXTURES REQUIRING PLUMBING AND AS REQUIRED FOR A COMPLETE SYSTEM
19. THE PLUMBING CONTRACTOR SHALL CLEAR ALL EXISTING PIPES ASSOCIATED WITH THE WASTE LINES FOR THIS PROJECT BACK TO THE EXISTING SEWER MANHOLE. THE PLUMBING CONTRACTOR SHALL ALSO PROVIDE PHOTOS OF THE CONDITIONS WITHIN THE TOTAL SYSTEM.

DEMOLITION NOTES

1. DISCONNECT AND DISMANTLE EXISTING PLUMBING SYSTEMS AND EQUIPMENT TO BE DEMOLISHED AND LEAVE DEBRIS AND DISCONNECTED EQUIPMENT IN DESIGNATED AREA FOR REMOVAL UNDER SECTION 02070 - SELECTIVE DEMOLITION.
2. AFTER WALLS AND CEILINGS ARE REMOVED AND PIPING IS EXPOSED, VERIFY PIPING SERVES ONLY PLUMBING FIXTURES INDICATED FOR DEMOLITION BEFORE SHUTDOWN FOR DISCONNECTION. IDENTIFY EXISTING PIPING WHICH SERVES FIXTURES TO REMAIN. PROMPTLY NOTIFY ARCHITECT OF ACTIVE PIPING TO BE MAINTAINED WHEN LOCATED IN PARTITIONS TO BE DEMOLISHED.

PIPING

—————	CW	COLD WATER
—————	HW	HOT WATER
—————		SOIL OR WASTE ABOVE GROUND
-----	V	VENT ABOVE GROUND

GENERAL

—∩—		P-TRAP
—○—		RISER UP (ELBOW)
—∩—		RISER DOWN (ELBOW)
—+HB	HB	HOSE BIBB
⊗	CTE	CONNECT TO EXISTING
—————	ETR	EXISTING TO REMAIN
//////	ETBR	EXISTING TO BE REMOVED

VALVES

—●—	BALL VALVE
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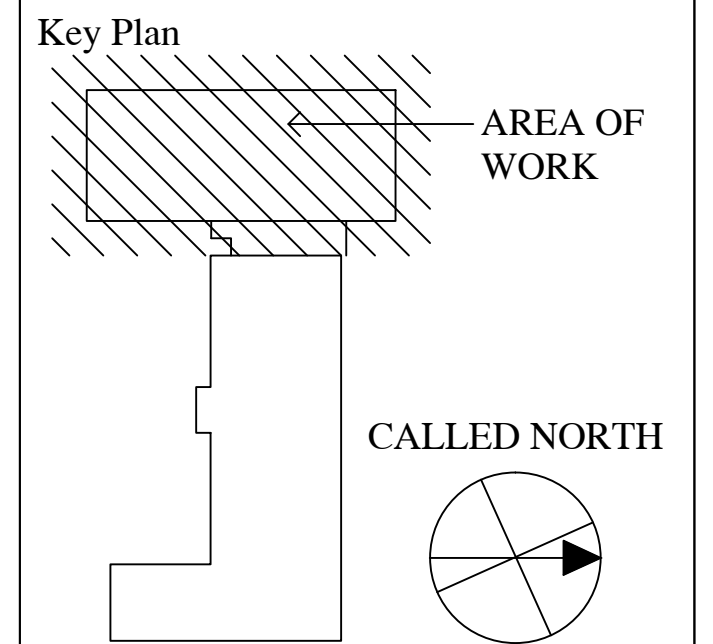
Designed By: CSI ENGINEERING

Drawn By: KC

Checked By: DM

REV	DATE	DESCRIPTION
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	2/1/2013	100% CONSTRUCTION DOCUMENTS

Stamp:



**Lower Falls
Community Center
Accessibility
Improvements**
545 Grove Street
Newton Lower Falls
MA. 02462

Drawing Name:

**PLUMBING
LEGEND**

Job No.:
2012-005

Date:
4-4-13

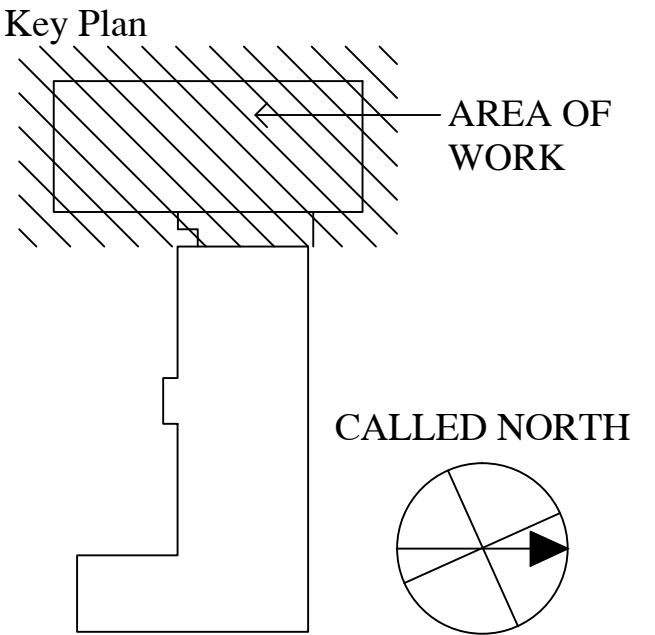
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BID DOCUMENTS

REV	DATE	DESCRIPTION
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	2/1/2013	100% CONSTRUCTION DOCUMENTS

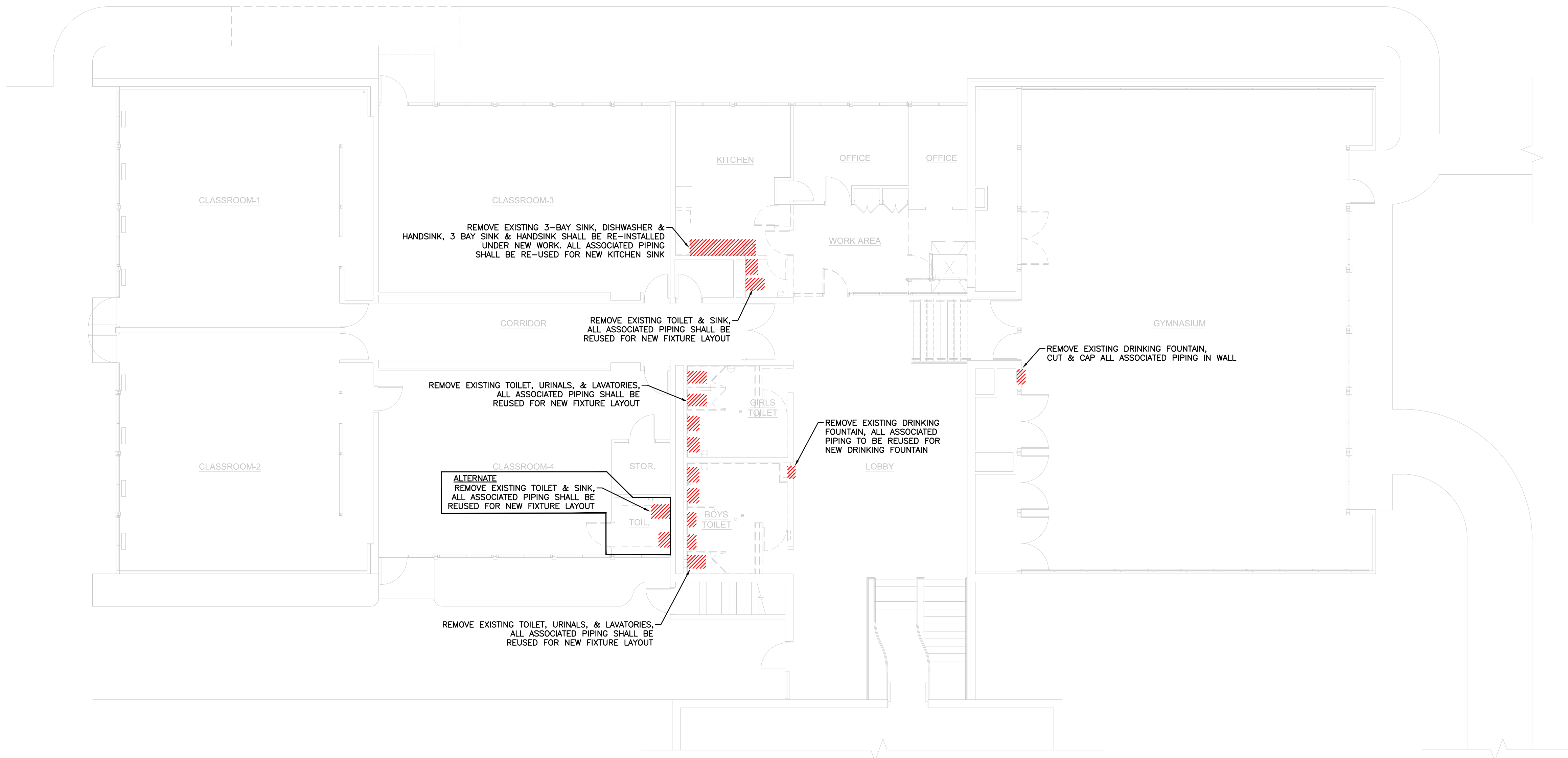
Stamp:



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MA. 02462

Drawing Name:
**PLUMBING
FIRST FLOOR
DEMOLITION
PLAN**

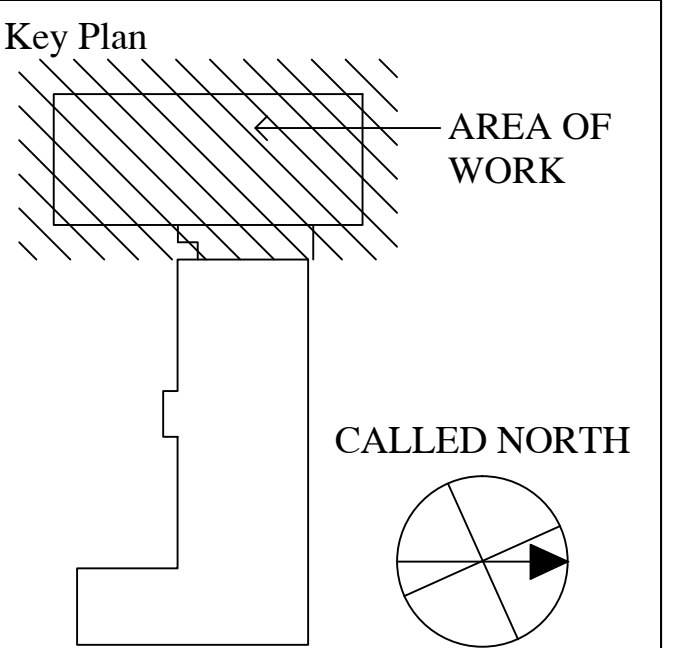
Job No. 2012-005	Drawing No. PD2.0
Date: 4-4-13	
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PLUMBING FIRST FLOOR DEMOLITION PLAN
Scale: 1/8" = 1'-0"

REV	DATE	DESCRIPTION
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Drawing Name:

**PLUMBING
FIRST FLOOR
PLAN**

Job No.:
2012-005

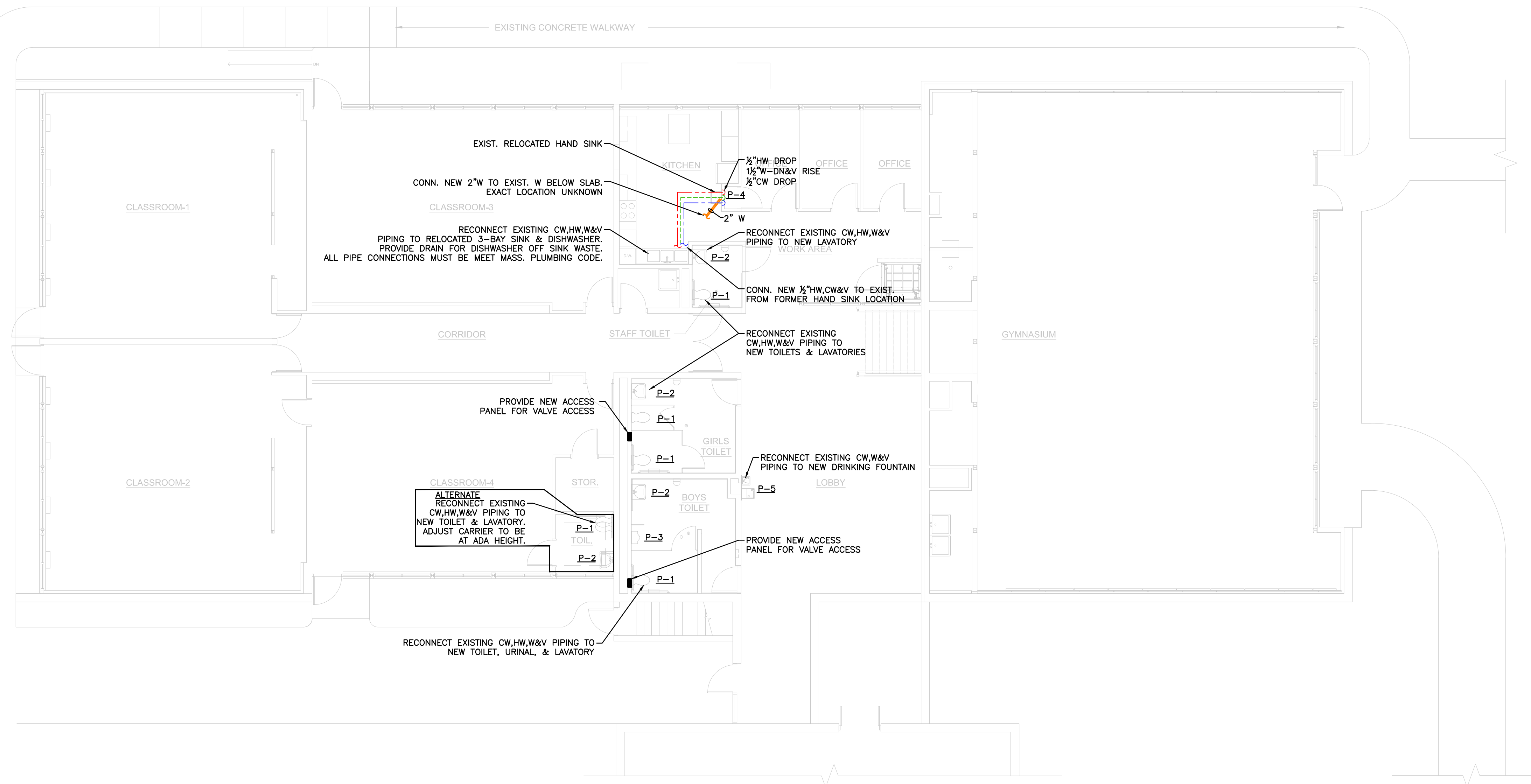
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4-4-13

Drawing No.

P2.0

BID DOCUMENTS

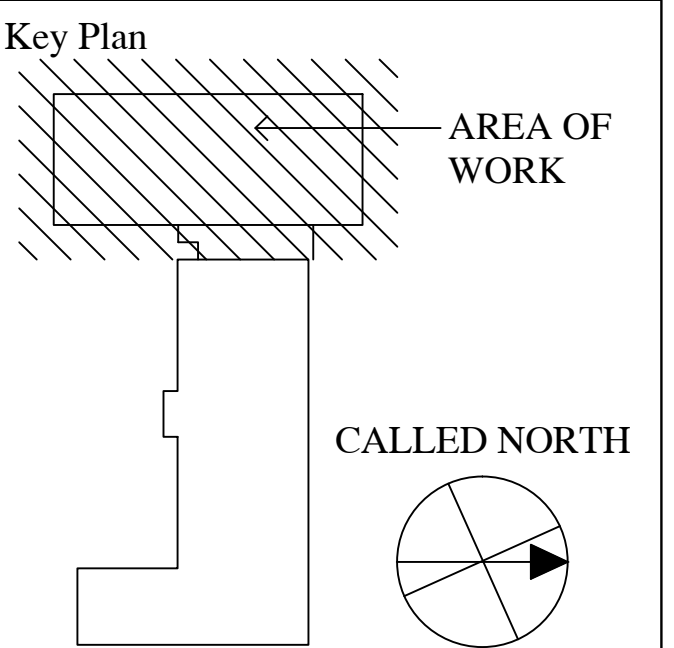
PLUMBING FIXTURE SCHEDULE										
SYMBOL	FIXTURE				FAUCET/FLUSH VALVE			SUPPLY	DRAIN	REMARKS
	TYPE	MANUFACTURER	MODEL	SIZE	MANUFACTURER	MODEL	TYPE			
P-1	TOILET	TOTO	CT70BE	-	TOTO	TEV1UN32	FLUSH VALVE	1"	3"	-
P-2	LAVATORY	TOTO	LT308.4	-	SYMMONS	S-20-2	FAUCET	1/2"	1-1/2"	-
P-3	URINAL	TOTO	UT104E	-	TOTO	TEV1UN12	FLUSH VALVE	3/4"	2"	-
P-4	EXIST HAND SINK	-	-	-	-	-	-	1/2"	1 1/2"	-
P-5	DRINKING FOUNTAIN	HALSEY TAYLOR	HVR8HD-BL ADA	-	-	-	-	1/2"	1-1/2"	-



PLUMBING FIRST FLOOR PLAN
Scale: 1/8" = 1'-0"

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Drawing Name:

**HVAC
FIRST FLOOR
PLAN**

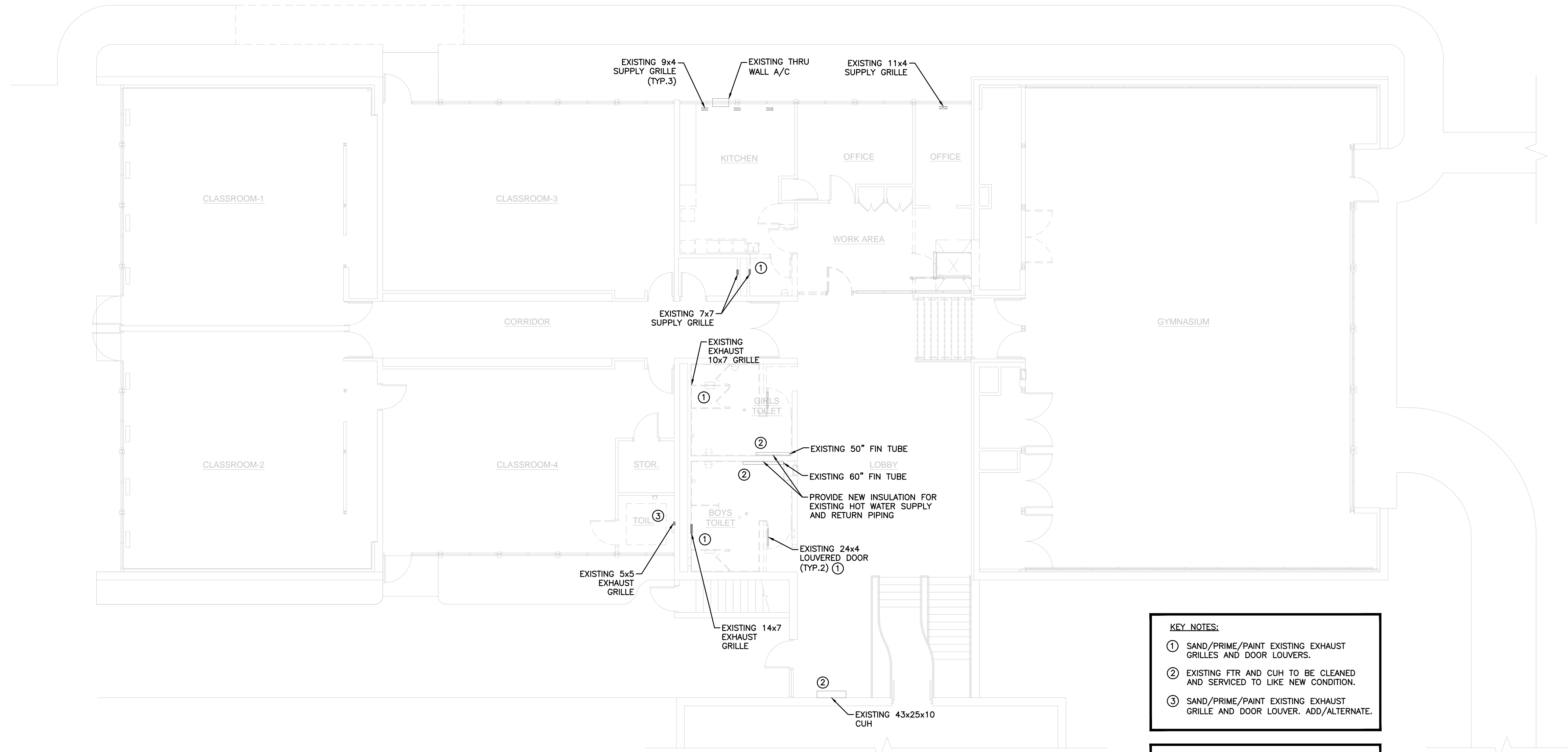
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2012-005

Date:
4-4-13

Drawing No.

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BID DOCUMENTS



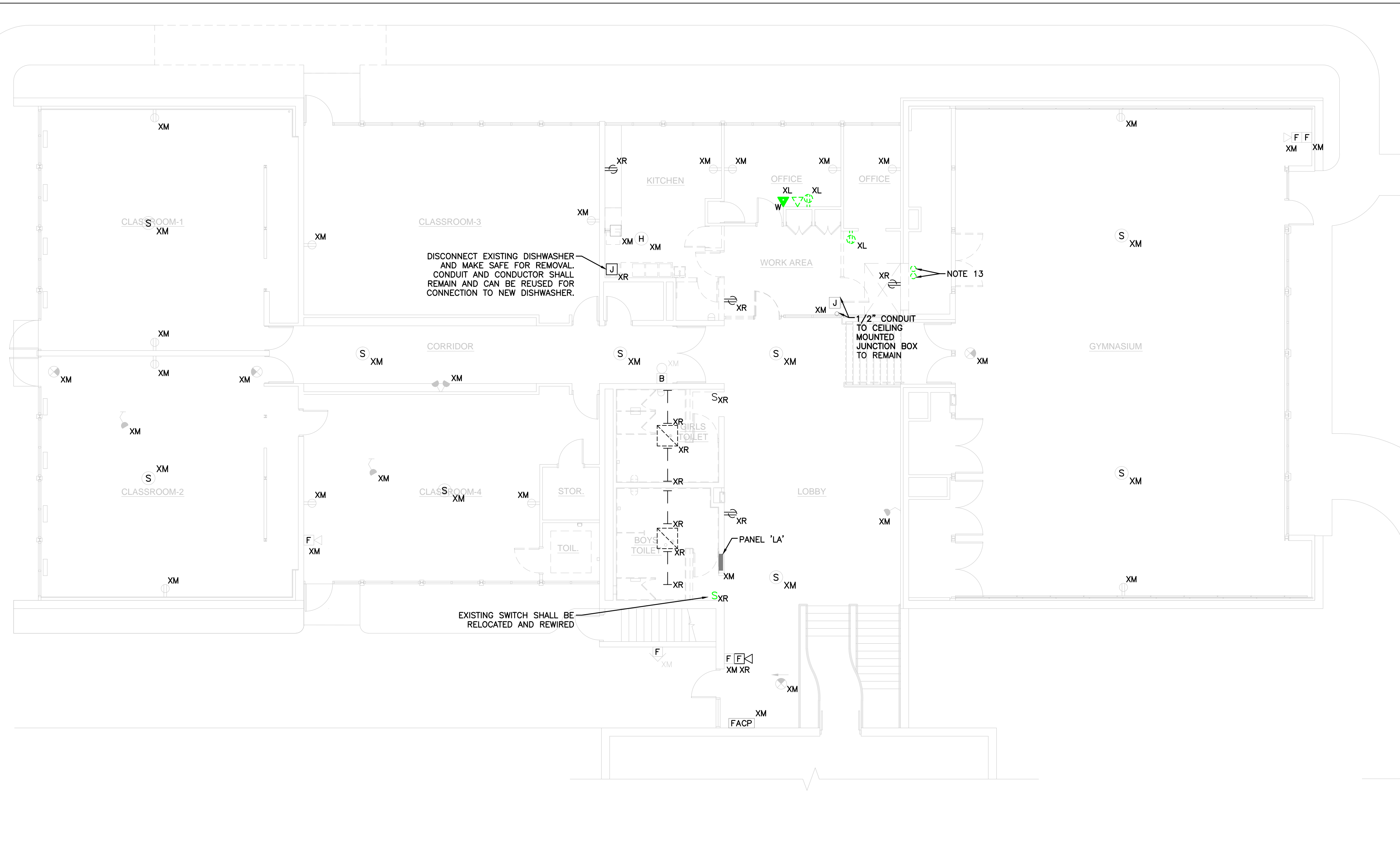
KEY NOTES:

- ① SAND/PRIME/PAINT EXISTING EXHAUST GRILLES AND DOOR LOUVERS.
- ② EXISTING FTR AND CUH TO BE CLEANED AND SERVICED TO LIKE NEW CONDITION.
- ③ SAND/PRIME/PAINT EXISTING EXHAUST GRILLE AND DOOR LOUVER. ADD/ALTERNATE.

NOTES:

- 1. BATHROOM EXHAUST FANS LOCATED ON THE ROOF TO BE REFURBISHED TO LIKE NEW CONDITION

HVAC FIRST FLOOR DEMOLITION PLAN
Scale: 1/8" = 1'-0"

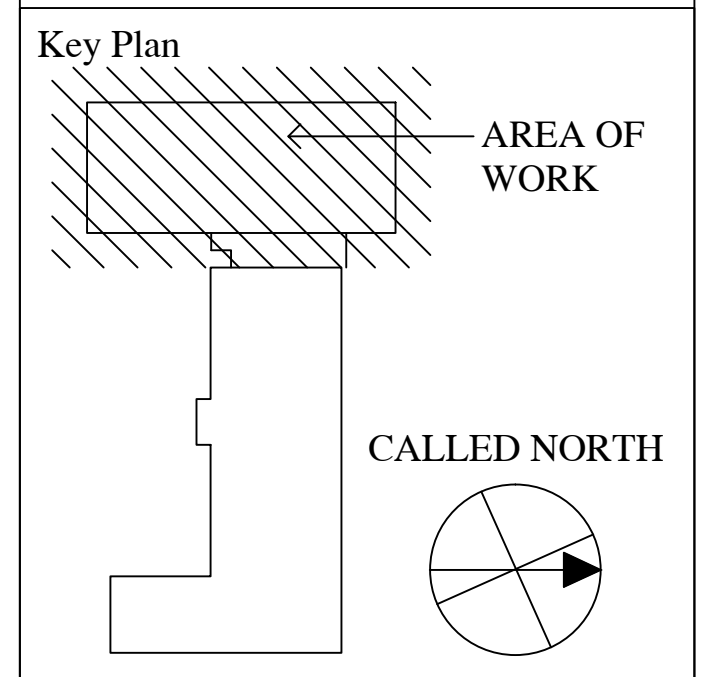


ELECTRICAL EXISTING AND DEMOLITION PLAN FIRST FLOOR
 Scale: 1/8" = 1'-0"

- DEMOLITION NOTES:**
- REFER TO DRAWING E1.0 FOR LEGEND, SYMBOLS AND GENERAL NOTES.
 - DISCONNECT AND MAKE SAFE ALL ELECTRICAL EQUIPMENT IDENTIFIED FOR REMOVAL ON THE HVAC, PLUMBING AND FIRE PROTECTION PLANS. THE ELECTRICAL SCOPE MAY EXTEND BEYOND THE AREA DEFINED TO FULLY COMPLY WITH VARIOUS REQUIREMENTS DEFINED BY THESE NOTES.
 - THE ELECTRICAL DEMOLITION PLANS AND DETAILS INDICATE THE GENERAL INTENT AND ARE NOT INTENDED TO SHOW ALL ITEMS TO BE REMOVED OR RETAINED. THE ELECTRICAL CONTRACTOR SHALL VISIT THE SITE PRIOR TO THE SUBMISSION OF BIDS TO BECOME FAMILIAR WITH THE ACTUAL CONDITIONS AND EXTENT OF WORK. DEVICES AND EQUIPMENT LOCATED ON WALLS AND/OR CEILINGS TO BE REMOVED SHALL BE DISCONNECTED AND MADE SAFE. THE ELECTRICAL CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE OF ANY UNANTICIPATED HIDDEN CONDITIONS ENCOUNTERED DURING DEMOLITION.
 - THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR OF ALL SYSTEMS OR BUILDING COMPONENTS DAMAGED DURING THE EXECUTION OF THE WORK. DAMAGE SHALL INCLUDE BUT NOT BE LIMITED TO DESTRUCTION OR DISPOSAL OF ITEMS INTENDED TO REMAIN OR TO BE SALVAGED.
 - THE ELECTRICAL CONTRACTOR SHALL CIRCUIT TRACE AND LABEL ALL EXISTING BRANCH CIRCUITS AND FEEDERS FED FROM PANEL 'LA'. ALL CIRCUITS WITHIN PANEL 'LA' IDENTIFIED FOR REMOVAL OR MODIFICATION SHALL BE TRACED AND LABELED TO ENSURE THAT NO AREA OUTSIDE THE DEMOLITION SCOPE LIMIT IS AFFECTED.
 - THE ELECTRICAL CONTRACTOR SHALL IDENTIFY ALL BRANCH CIRCUITS, FEEDERS AND SYSTEM COMPONENTS, WHICH ARE TO REMAIN WITHIN THE AREA OF DEMOLITION SCOPE. THERE SHALL BE NO INTERRUPTION OF SERVICE TO ANY AREA OUTSIDE THE SCOPE LIMITS WITHOUT APPROVAL FROM THE OWNER'S REPRESENTATIVE. EXISTING EQUIPMENT TO REMAIN SHALL BE LEFT IN A CODE COMPLIANT MANNER.
 - THE ELECTRICAL CONTRACTOR SHALL DE-ENERGIZE AND REMOVE ALL CONDUCTORS AND RACEWAYS TO THEIR POINTS OF ORIGIN WITHIN THE AREA OF DEMOLITION SCOPE. ITEMS IDENTIFIED FOR DEMOLITION SHALL NOT BE ABANDONED IN PLACE. RACEWAYS THAT ENTER MASONRY WALLS AND FLOORS SHALL BE CUT FLUSH AT THE SURFACE FOR PATCHING BY OTHERS. ALL CIRCUIT BREAKERS ASSOCIATED WITH THE DEMOLITION SCOPE SHALL BE DE-ENERGIZED AND LABELED SPARE.
 - THE ELECTRICAL CONTRACTOR SHALL TEMPORARILY SUPPORT ALL ITEMS TO REMAIN THAT ARE AFFECTED BY THE DEMOLITION OF BUILDING STRUCTURAL COMPONENTS (WALLS, CEILINGS, ETC.). TEMPORARILY SUPPORTED ITEMS SHALL BE PERMANENTLY SUPPORTED AND INSTALLED WHEN FINALIZED STRUCTURES ARE IN PLACE.
 - ALL REMOVED ITEMS SHALL BE LEGALLY DISPOSED OF UNLESS IDENTIFIED FOR REUSE. THE OWNER'S REPRESENTATIVE SHALL INSPECT ALL RETAINED ITEMS PRIOR TO PLACEMENT IN THE IDENTIFIED STORAGE LOCATION BY THE ELECTRICAL CONTRACTOR.
 - THE EXISTING FIRE ALARM SYSTEM SHALL REMAIN FULLY FUNCTIONAL DURING THE ENTIRE DEMOLITION AND CONSTRUCTION PERIOD. REUSE OF EXISTING FIRE ALARM SYSTEM RACEWAYS SHALL NOT BE ALLOWED. ALL REQUIRED SYSTEM SHUTDOWNS SHALL BE COORDINATED WITH AND APPROVED BY THE OWNER'S REPRESENTATIVE AND THE AUTHORITY HAVING JURISDICTION. DEMOLITION OF THE EXISTING SYSTEM SHALL NOT COMMENCE UNTIL THE NEW SYSTEM HAS BEEN COMPLETELY INSTALLED, TESTED AND APPROVED BY THE AUTHORITY HAVING JURISDICTION.
 - REMOVED FLUORESCENT AND HID LAMPS AND BATTERIES SHALL BE RECYCLED BY A FACILITY APPROVED BY THE OWNER'S REPRESENTATIVE. A UNIFORM HAZARDOUS WASTE MANIFEST SHALL BE PREPARED FOR ALL DISPOSALS AND RETURNED WITH ALL APPLICABLE SIGN OFF'S PRIOR TO APPLICATION FOR FINAL PAYMENT.
 - ALL BALLAST IN LIGHTING FIXTURES TO BE DISPOSED SHALL BE VERIFIED TO BE PCB FREE. ALL BALLAST MANUFACTURED PRIOR TO 1979 AND NOT LABELED AS PCB FREE SHALL BE CONSIDERED TO CONTAIN PCBs. PROVIDE WRITTEN VERIFICATION TO THE OWNER'S REPRESENTATIVE THAT CONFIRMS PCB FREE WASTE. WHERE PCB FREE WASTE CANNOT BE VERIFIED, BALLAST SHALL BE RECYCLED BY A FACILITY APPROVED BY THE OWNER'S REPRESENTATIVE, WITH PCB COMPONENTS ELIMINATED BY A HIGH TEMPERATURE INCINERATION. A UNIFORM HAZARDOUS WASTE MANIFEST SHALL BE PREPARED FOR ALL DISPOSALS AND RETURNED WITH ALL APPLICABLE SIGN OFF'S PRIOR TO APPLICATION FOR FINAL PAYMENT. ALL HANDLING SHALL CONFORM TO EPA REQUIREMENTS. PROVIDE BREAKOUT COST FOR THIS SCOPE.
 - (2) 3/4" EXISTING CONDUITS LOCATED IN CLOSET SHALL BE RELOCATED TO ACCOMMODATE CONSTRUCTION OF LIFT.

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Drawing Name:
**ELECTRICAL
 EXISTING AND
 DEMOLITION PLAN
 FIRST FLOOR**

Job No. 2012-005	Drawing No. ED1.0
Date: 4-4-13	
BID DOCUMENTS	

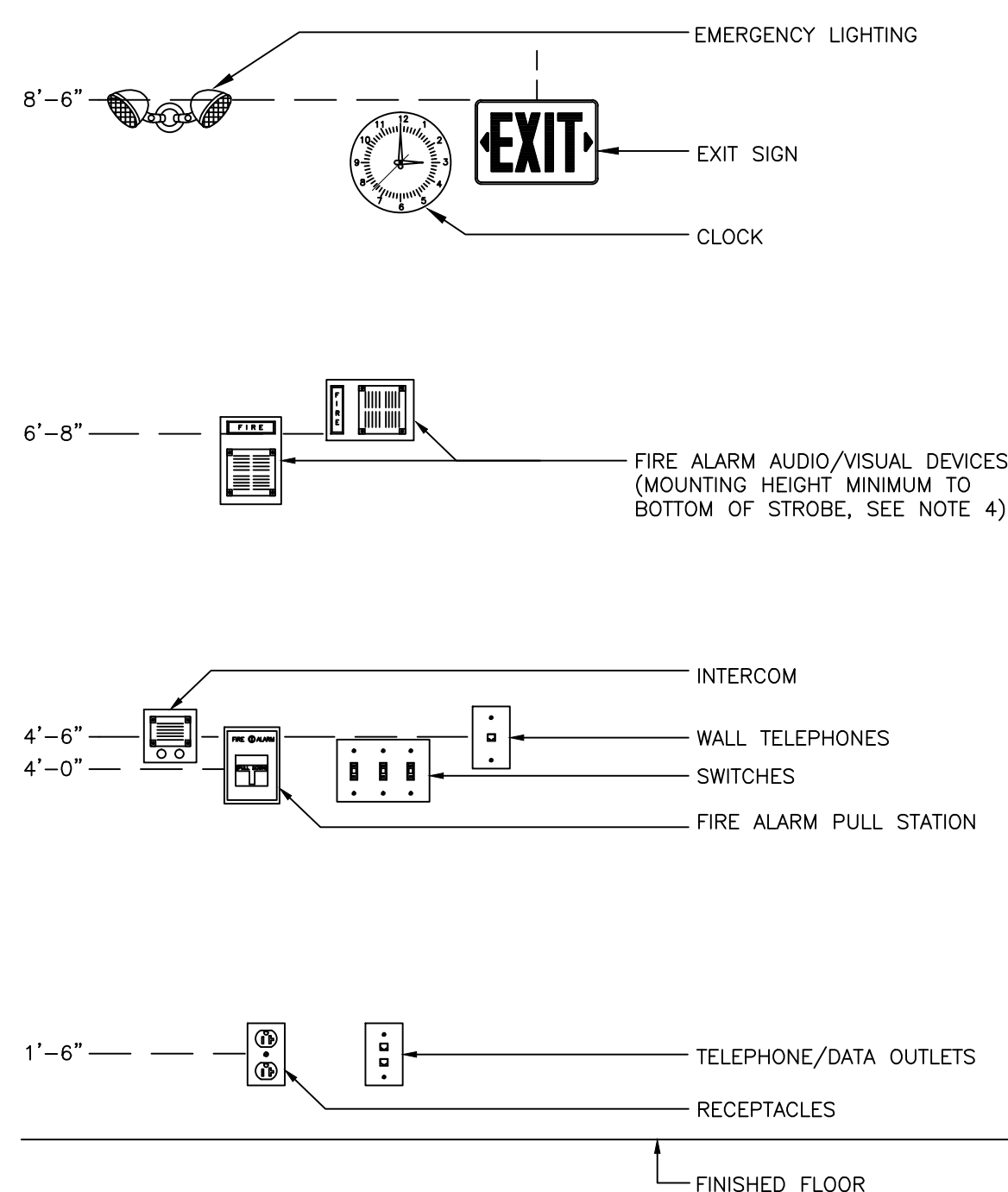
WARNING

ARC FLASH AND SHOCK HAZARD
APPROPRIATE PPE REQUIRED

EQUIPMENT TYPE:	Y/N	GROUNDING:	INCHES
FLASH PROTECTION BOUNDARY:	KA	INCIDENT ENERGY AT 23 INCHES:	cal/cm ²
AVAILABLE 3φ BOLTED CURRENT:	INCHES	PPE LEVEL:	4
WORK DISTANCE:	/	DATE:	/ /

- NOTES:
- REFER TO SPECIFICATIONS FOR ADDITIONAL NAMEPLATE REQUIREMENTS.
 - PROVIDE ON ALL IN-LINE METER SOCKETS, SWITCHBOARDS, DISTRIBUTION PANELS, PANELBOARDS AND MOTOR CONTROL CENTERS IN ACCORDANCE WITH NEC 110.16.

TYPICAL FLASH PROTECTION WARNING LABEL



- NOTES:
- ALL MOUNTING HEIGHTS SHALL BE MEASURED FROM FINISHED FLOOR TO CENTERLINE OF DEVICE EXCEPT EXIT SIGNS, CLOCKS, EMERGENCY LIGHTING AND FIRE ALARM A/V DEVICES.
 - DEVICES SHALL BE INSTALLED ON A COMMON VERTICAL CENTERLINE WHEREVER POSSIBLE.
 - ALL DEVICES SHALL BE INSTALLED AT MOUNTING HEIGHTS AS INDICATED ON THIS DETAIL UNLESS OTHERWISE NOTED.
 - STROBE HEIGHT ILLUSTRATED AT MAXIMUM HEIGHT. STROBE SHALL BE 80" AFF OR 6" BELOW CEILING, WHICHEVER IS LOWER.

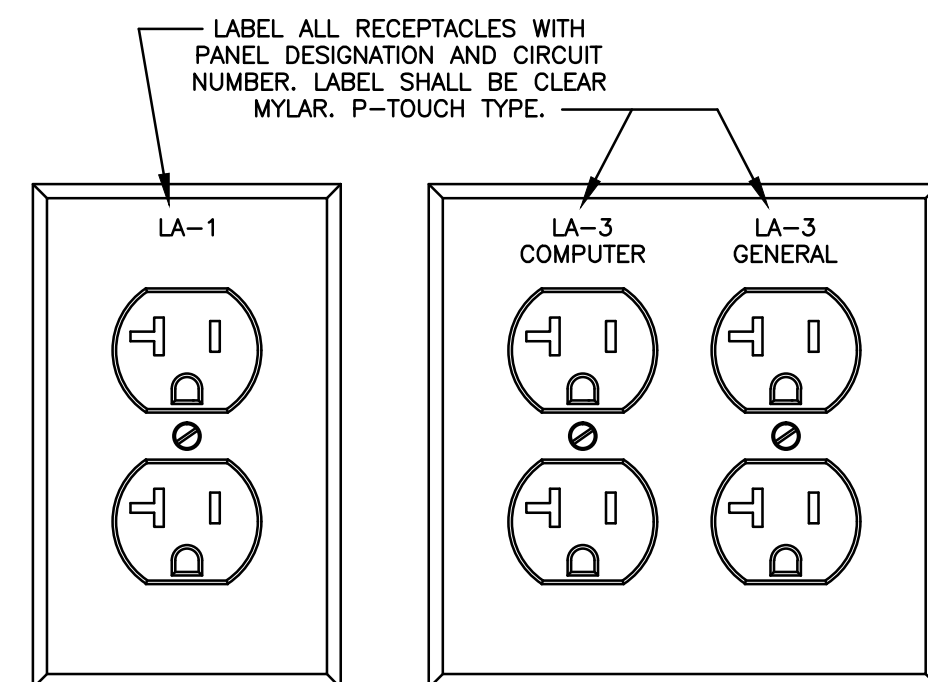
TYPICAL DEVICE MOUNTING HEIGHTS DETAIL

FIRE ALARM LEGEND

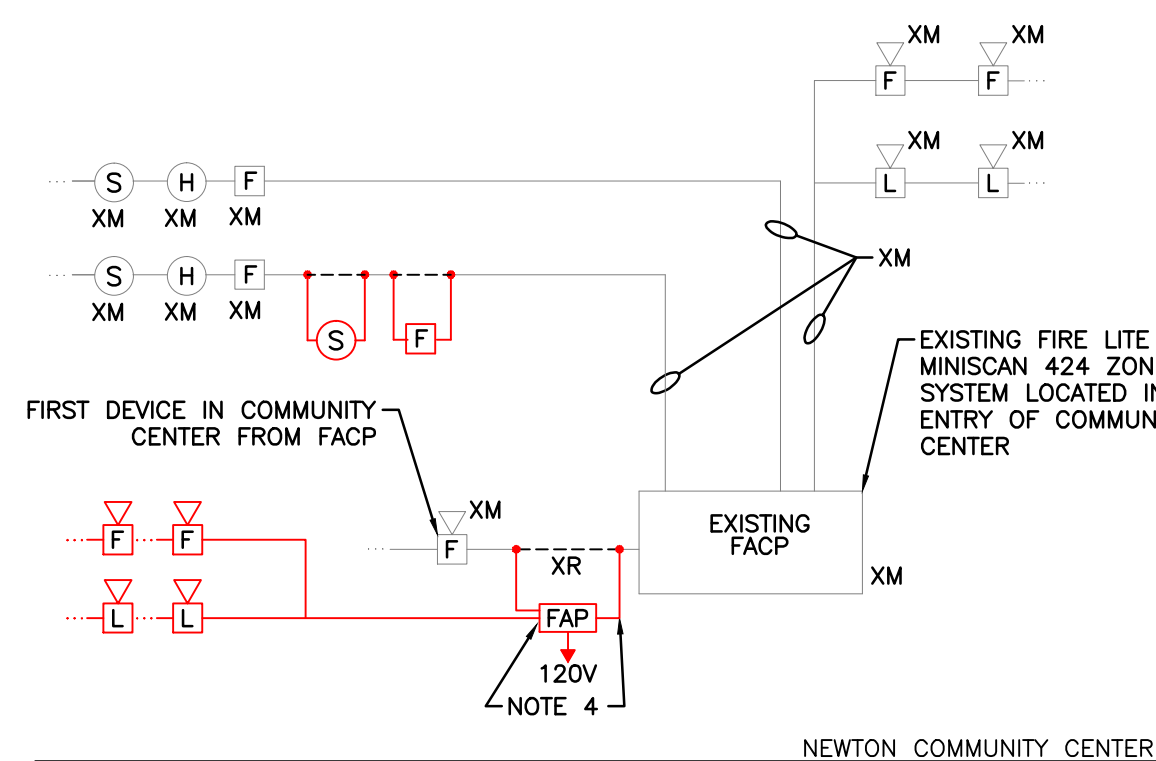
FACP	FIRE ALARM CONTROL PANEL
F	FIRE ALARM MASTER BOX
FAP	FIRE ALARM NOTIFICATION APPLIANCE POWER SUPPLY
L 15cd	FIRE ALARM VISUAL DEVICE
F	FIRE ALARM MANUAL PULL STATION
RAI	REMOTE ALARM INDICATOR
L 15cd	FIRE ALARM AUDIBLE AND VISUAL DEVICE, NUMERAL INDICATES CANDELA VALUE
S	FIRE ALARM SMOKE DETECTOR, PHOTO ELECTRIC UNLESS NOTED OTHERWISE
H	FIRE ALARM HEAT DETECTOR, 135° FIXED TEMPERATURE UNLESS NOTED OTHERWISE

TELECOMMUNICATION LEGEND

W	TELEPHONE OUTLET
W	"W" - INDICATES WALL PHONE



RECEPTACLE LABEL REQUIREMENTS



FIRE ALARM RISER DIAGRAM

SCALE: NTS

- NOTES:
- COORDINATE ALL FIRE ALARM WORK WITH FIRE DEPARTMENT & FIRE ALARM SERVICE TECHNICIAN (CONTACT OWNER FOR TECHNICIANS INFORMATION)
 - QUANTITY OF DEVICES SHOWN ARE DIAGRAMMATIC ONLY, SEE FLOOR PLANS FOR EXACT QUANTITIES AND LOCATIONS OF ALL DEVICES.
 - SEE SPECIFICATION FOR STANDARDS, SYSTEM OPERATION, MATERIALS AND TESTING REQUIREMENTS.
 - PROVIDE REMOTE NOTIFICATION CIRCUIT POWER SUPPLY IN COMMUNITY CENTER AS SHOWN ON THE DRAWINGS. POWER SUPPLY SHALL SYNCHRONIZE ALL STROBE DEVICES IN THE COMMUNITY CENTER BY FLOOR. PROVIDE 3/4" CONDUIT AND CONDUCTOR (MATCH EXISTING TYPE AND RATING) BACK TO THE NEAREST NOTIFICATION DEVICE. PROVIDE 120V POWER TO POWER SUPPLY.
 - E.C. SHALL USE EXISTING FIRE ALARM INITIATION LOOP AND EXTEND TO NEW FIRE ALARM INITIATION DEVICES IN COMMUNITY CENTER. COORDINATE QUANTITY OF INITIATION DEVICES AS SHOWN ON DRAWINGS.

WIRING DEVICE LEGEND

5	DUPLEX RECEPTACLE, GROUNDING TYPE, RATED 20A, 125V
GFI	"5" - INDICATES CIRCUIT NUMBER "GFI" - INDICATES INTEGRAL GROUND FAULT CIRCUIT INTERRUPTER "WP" - INDICATES WEATHERPROOF "T" - INDICATES TAMPER RESISTANT SAFETY "C" - INDICATES COUNTER HEIGHT
J	JUNCTION BOX

BRANCH CIRCUIT & FEEDER LEGEND

PP1-(X)	BRANCH CIRCUIT OR FEEDER TURNING UP TOWARDS OBSERVER BRANCH CIRCUIT HOME RUN, TYPICAL 2#12 & 1#12G IN 3/4" C MINIMUM. PP1-(1) INDICATES PANEL AND CIRCUIT DESIGNATION FROM WHICH HOME RUN SHALL ORIGINATE. EACH CIRCUIT SHALL BE 20A-1P (20AMP SINGLE POLE) UNLESS NOTED OTHERWISE.
----------------	--

POWER DISTRIBUTION

208Y/120	208Y/120 VOLT PANELBOARD, RECESSED MOUNTED REFER TO SCHEDULE OF PANELBOARDS
-----------------	--

MOTOR & CONTROLS LEGEND

M	MANUAL MOTOR STARTING SWITCH WITH THERMAL OVERLOAD PROTECTION
2	MOTOR, NUMERAL INDICATES HORSEPOWER "2" - INDICATES HORSEPOWER RATING
30AS	DISCONNECT SWITCH RATED 30AMP, 3-POLE, IN NEMA TYPE 1 ENCLOSURE, UNLESS OTHERWISE NOTED "3R" - INDICATES NEMA TYPE 3R ENCLOSURE "2P" - INDICATES 2 POLE SINGLE PHASE DISCONNECT "60AS" - INDICATES 60A SWITCH

EXISTING EQUIPMENT LEGEND

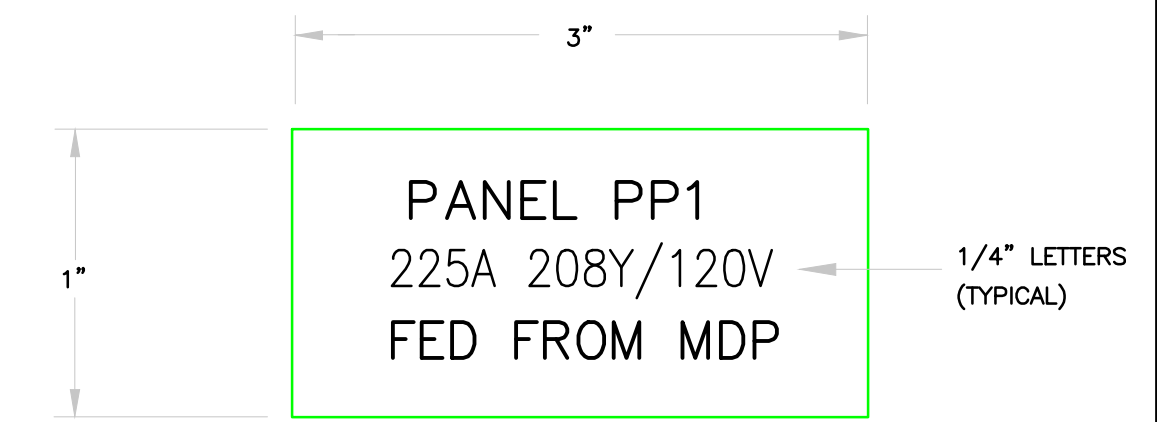
XM	EXISTING EQUIPMENT TO REMAIN
XR	EXISTING EQUIPMENT TO BE REMOVED
XL	EXISTING EQUIPMENT TO BE RELOCATED
(Symbol)	EXISTING EQUIPMENT FOR INFORMATION ONLY - INDICATED BY SYMBOL WITH LIGHT OUT OF FUNCTION LINE TYPE
(Symbol)	EXISTING EQUIPMENT TO BE REMOVED - INDICATED BY SYMBOL WITH DASHED AND IN FUNCTION LINE TYPE

SWITCH LEGEND

S	SINGLE POLE SWITCH, RATED 20A, 120/277V "g" LOWER CASE LETTER INDICATES FIXTURE SWITCH CONTROL
3	THREE WAY SWITCH, RATED 20A, 120/277V
S₀₁	OCCUPANCY SENSOR, RECESS WALL MOUNTED "01" INDICATES SINGLE CIRCUIT OUTPUT
S₀₁	OCCUPANCY SENSOR, SURFACE WALL MOUNTED "01"-INDICATES TYPE AS DEFINED IN NOTES/SCHEDULES.

LIGHTING FIXTURE LEGEND

FR	LIGHTING FIXTURE (SEE LIGHTING FIXTURE SCHEDULE) "FR2" - INDICATES LIGHTING FIXTURE TYPE "2" - INDICATES CIRCUIT NUMBER "g" - INDICATES SWITCH CONTROL "NL" - INDICATES NIGHT LIGHT (UNSWITCHED) CIRCUIT
ES2	EXIT SIGN LIGHTING FIXTURE, CEILING, PENDENT MOUNTED, ARROWS AND EXIT FACE (SHADED) AS INDICATED
ES1	EXIT SIGN LIGHTING FIXTURE, WALL MOUNTED, ARROWS AND EXIT FACE (SHADED) AS INDICATED.
EW1	EXIT SIGN LIGHTING FIXTURE, CEILING, PENDENT MOUNTED, ARROWS AND EXIT FACE (SHADED) AS INDICATED.
ES2	EXIT SIGN WITH DUAL EMERGENCY HEADS
ER1	EMERGENCY LIGHTING REMOTE LAMP HEADS, SINGLE OR DOUBLE
EB1	EMERGENCY LIGHTING BATTERY UNIT WITH DOUBLE LAMP HEADS



- NOTES:
- REFER TO SPECIFICATIONS FOR ADDITIONAL NAMEPLATE REQUIREMENTS.
 - NAMEPLATE TO BE 1/16" THICK PLASTIC WITH WHITE CENTER LAMINATION. FACE SHALL BE BLACK, ENGRAVED LETTERS SHALL BE WHITE.
 - SECURE NAMEPLATE TO SURFACES WITH HIGH STRENGTH ADHESIVE CEMENT. UTILIZE MECHANICAL FASTENERS FOR ALL EXTERIOR LOCATIONS.
 - TYPICAL FOR "STARTERS", "DISCONNECTS", AND "TRANSFORMERS".

TYPICAL NAMEPLATE DETAIL

ABBREVIATIONS

A/AMP	AMPERE	KWH	KILOWATT HOURS
AC	ALTERNATION CURRENT	LTG	LIGHTING
ADA	AMERICAN WITH DISABILITIES ACT	MCB	MAIN CIRCUIT BREAKER
AF	AMPERE FRAME	MEC	MASSACHUSETTS ELECTRIC CODE
AFB	ABOVE FINISHED FLOOR	M/G	MOTOR/GENERATOR SET
AFG	ABOVE FINISHED GRADE	MH	MANHOLE
AIC	AMPERE INTERRUPTING CAPACITY	MLO	MAIN LUGS ONLY
AL	ALUMINUM	MTD	MOUNTED
AT	AMPERE TRIP	MTG	MOUNTING
ATS	AUTOMATIC TRANSFER SWITCH	NC	NORMALLY CLOSED CONTACT
AWG	AMERICAN WIRE GAUGE	NEC	NATIONAL ELECTRIC CODE
B	BURIED	NO	NORMALLY OPEN CONTACT
C	CONDUIT	NTS	NOT TO SCALE
CA	CABLE	#	NUMBER
CAV	CABLE TELEVISION	OPD	OVER CURRENT PROTECTION DEVICE PROVIDED UNDER OTHER SECTIONS
CB	CIRCUIT BREAKER	PVC	POLYVINYL CHLORIDE
CKT	CIRCUITS	PWR	POWER
CPU	CENTRAL PROCESSING UNIT	RGS	RIGID GALVANIZED STEEL
CL	CENTERLINE	RMS	ROOT MEAN SQUARE VALUE
DB	DECIBEL	RPM	REVOLUTIONS PER MINUTE
DC	DIRECT CURRENT	SN	SOLID NEUTRAL
DWG	DRAWING	SWBD	SWITCHBOARD
EC	ELECTRICAL CONTRACTOR	TB	TERMINAL BLOCK
EMT	ELECTRICAL METALLIC TUBING	TEL	TELEPHONE
FDR	FEEDER	TERM	TERMINAL
FLMT	FLEXIBLE LIQUID TIGHT METALLIC TUBING	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSER
FREQ	FREQUENCY	TSP	TWISTED SHIELDED-PAIR
GEC	GROUNDING ELECTRODE CONDUCTOR	TYP	TYPICAL
GFI	GROUND FAULT INTERRUPTING	UG	UNDERGROUND
GND	GROUND	UNO	UNLESS NOTED OTHERWISE
HH	HANDHOLE	UPS	UNINTERRUPTIBLE POWER SUPPLY
HP	HORSEPOWER	UTP	UNSHIELDED TWISTED-PAIR
HVAC	HEATING, VENTILATING, AND AIR CONDITIONING	V	VOLTS
HZ	HERTZ	VA	VOLT-AMPERE
IG	ISOLATED GROUND	VSD	VARIABLE SPEED DRIVE
JB	JUNCTION BOX	W	WATTS
KVA	KILOVOLT-AMPERE	WP	WEATHERPROOF
KW	KILOWATT		

SCHEDULE OF DRAWINGS

DWG#	DESCRIPTION	REV	DATE
E1.0	ELECTRICAL LEGEND AND DETAILS		01-31-13
ED1.0	ELECTRICAL EXISTING AND DEMOLITION PLAN FIRST FLOOR		01-31-13
E2.0	ELECTRICAL NEW POWER, LIGHTING, AND FIRE ALARM PLAN		01-31-13
E3.0	ELECTRICAL SCHEDULES		01-31-13
E4.0	ELECTRICAL SPECIFICATIONS		01-31-13

6 THIRTEENTH STREET
CHARLESTOWN, MA. 02129
617-241-2807 (T)
617-241-2857 (F)

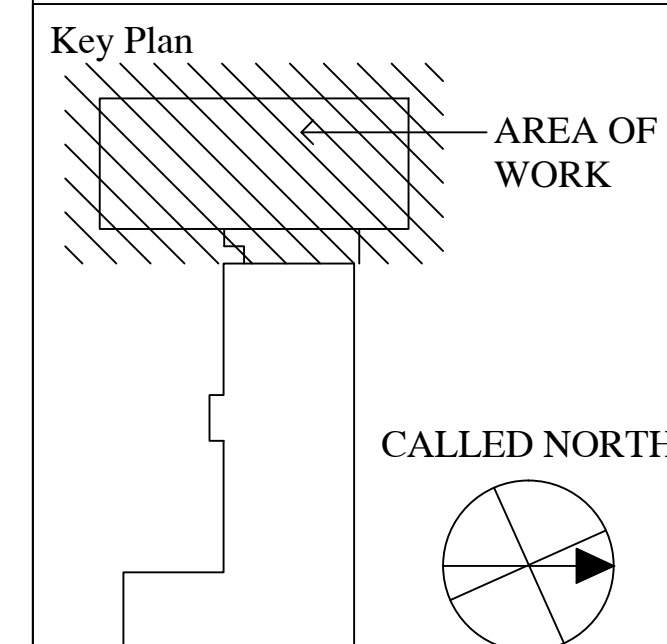
Designed By: CSI ENGINEERING

Drawn By: SIC

Checked By: SSM

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Drawing Name:

**ELECTRICAL
LEGEND &
DETAILS**

Job No.: 2012-005

Drawing No.

Date:
4-4-13

E1.0

BID DOCUMENTS

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POWER NOTES:

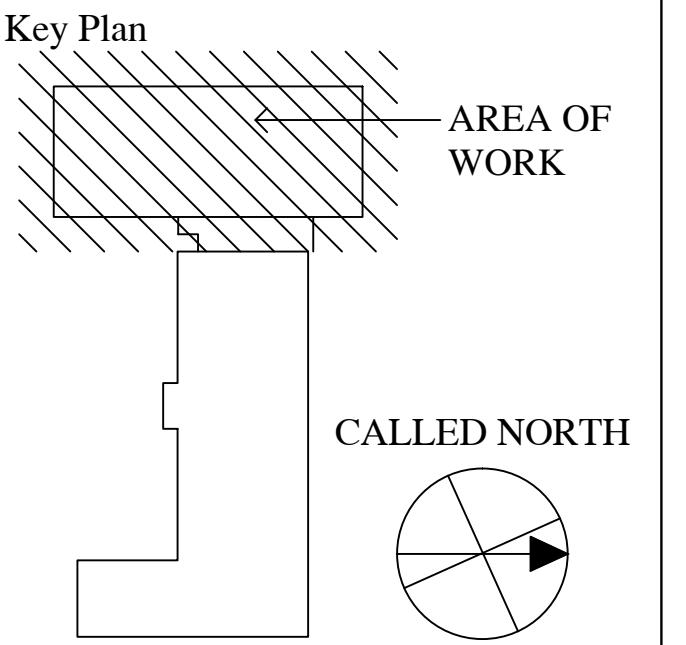
- REFER TO DRAWING E1.0 FOR LEGEND, SYMBOLS AND GENERAL NOTES.
- CIRCUIT NUMBERS ARE DIAGRAMMATIC. EXACT NUMBERS SHALL BE DETERMINED IN THE FIELD AND REFLECTED ON AS-BUILT DOCUMENTATION BY THE ELECTRICAL CONTRACTOR. THE ASSOCIATED CIRCUIT NUMBERS THAT ARE APPLIED TO EACH DEVICE AND PIECE OF EQUIPMENT INFERS INTERCONNECTING BRANCH CIRCUITRY. INTERCONNECTING BRANCH WIRING SHALL BE SIZED EQUAL TO THE HOMERUN UNLESS NOTED OTHERWISE.
- VOLTAGE DROP HAS BEEN CONSIDERED IN THE DESIGN OF ALL BRANCH CIRCUITRY AND FEEDER SIZES BASED UPON THE ILLUSTRATED EQUIPMENT LAYOUTS AND SHORTEST CONDUCTOR/RACEWAY ROUTING. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR DEVIATIONS TAKEN THAT WILL INCREASE CONDUCTOR/RACEWAY ROUTING LENGTHS. BRANCH CIRCUITS LONGER THAN 75' FOR 120V FROM PANEL TO LAST OUTLET SHALL BE INCREASED A MINIMUM OF ONE SIZE ABOVE THAT SPECIFIED TO LIMIT VOLTAGE DROP TO LESS THAN 3%. FEEDERS SHALL FOLLOW SIMILAR GUIDELINES AND BE LIMITED TO 2% DROP.
- POWER BRANCH CIRCUITRY SHALL BE INSTALLED IN CONDUIT FROM THE PANEL TO THE FIRST DEVICE AND/OR WHERE EXPOSED. POWER BRANCH CIRCUITRY MAY BE TYPE MC CABLE WHERE CONCEALED ABOVE SUSPENDED CEILING AND IN METAL STUD WALLS.
- MAINTAIN CONTINUITY OF BRANCH CIRCUITRY ASSOCIATED WITH ALL EXISTING POWER DEVICES TO REMAIN.

FIRE ALARM NOTES:

- REFER TO DRAWING E1.0 FOR LEGEND, SYMBOLS AND GENERAL NOTES.
- FIRE ALARM BRANCH CIRCUITRY SHALL BE INSTALLED IN CONDUIT FROM THE PANEL TO THE FIRST DEVICE AND/OR WHERE EXPOSED. FIRE ALARM BRANCH CIRCUITRY MAY BE TYPE MC CABLE WHERE CONCEALED ABOVE SUSPENDED CEILING AND IN METAL STUD WALLS.
- MC CABLE FOR FIRE ALARM SERVICE SHALL HAVE A RED IDENTIFIER ALONG ITS ENTIRE LENGTH. JUNCTION BOX COVERS AND CONDUIT COUPLINGS FOR ALL FIRE ALARM WIRING RACEWAYS SHALL BE PAINTED RED PRIOR TO INSTALLATION.
- MAINTAIN CONTINUITY OF BRANCH CIRCUITRY ASSOCIATED WITH ALL EXISTING FIRE ALARM DEVICES TO REMAIN.

PLAN NOTES: # TAG CALL OUT IS INTENDED TO INCLUDE ALL "SUB" NOTES (e.g. 2.1, 2.2)

- CONDUIT ROUTING:
 - ALL BRANCH CIRCUIT CONDUITS FROM BASEMENT PANEL "BLP1" TO ABOVE FIRST FLOOR CEILING SHALL BE ROUTED INSIDE FENCED VENT CHASE LOCATED IN THE CORNER OF THE LOBBY. ALTERNATE ROUTING WILL REQUIRE ARCHITECT APPROVAL.
- PANEL "LA" MODIFICATIONS:
 - PROVIDE NEW DOOR IN DOOR HINGED LOCKABLE COVER FOR RECESSED PANEL "LA". CONTRACTOR SHALL COORDINATE NUMBER OF CIRCUIT BREAKERS AND REQUIRED OPENING IN FIELD.
 - PROVIDE NEW BLANK PLASTIC PLATE OVER HOLE WHERE EXPOSED BUS CAN BE SEEN. SECURELY FASTEN PLATE TO PANEL "LA" WITH SCREWS TO FIT EXISTING MOUNTING HOLE IN PANEL.
- POWER TO NEW WATER COOLER:
 - PROVIDE 2#12x, 3/4" C FROM PANEL "BLP1" TO NEW WATER COOLER.
 - REFER TO PANEL SCHEDULE FOR CIRCUIT BREAKER REQUIREMENTS.
 - REPLACE EXISTING DUPLEX RECEPTACLE LOCATED WITHIN 6'-0" OF NEW WATER COOLER WITH GFI TYPE DUPLEX RECEPTACLE.
- PROVIDE NEW BATHROOM LIGHTING:
 - PROVIDE NEW 2'X2' FIXTURE (REFER TO LIGHTING SCHEDULE). FOUR FIXTURES TOTAL. FIXTURES SHALL MOUNTED TO THE ACT GIRD AND SHALL BE WIRED TO EXISTING CIRCUIT FEEDING BATHROOM LIGHTS.
 - PROVIDE DUAL TECHNOLOGY WALL MOUNT OCCUPANCY SENSOR WIRED TO CONTROL EXISTING BATHROOM FIXTURES.
- REWIRE AND RELOCATE EXISTING LIGHT SWITCH.
 - EXISTING LIGHT SWITCH LOCATED IN BATHROOM THAT CONTROLS CORRIDOR, LOBBY AND BATHROOM LIGHTING SHALL BE RELOCATED TO THE CORRIDOR WALL AS SHOWN AND REWIRED SUCH THAT IT CONTROLS CORRIDOR AND LOBBY LIGHTING ONLY.
 - LIGHTING FIXTURES SHALL BE REWIRED TO LOBBY AND CORRIDOR SWITCH CONTROL.
- NEW EMERGENCY LIGHTING FIXTURE (TYPICAL FOR ALL):
 - PROVIDE SELF CONTAINED EMERGENCY BATTERY LIGHT UNIT (REFER TO LIGHTING SCHEDULE)
 - EACH EMERGENCY LIGHT UNIT SHALL BE CIRCUITED TO AN EXISTING UNSWITCHED LIGHTING CIRCUIT IN THE AREA WHERE IT IS LOCATED.
- POWER FOR NEW HANDICAP LIFT:
 - PROVIDE (2)#10 & (1)#10G, 3/4" C FROM PANEL "BLP1" TO NEW HANDICAP LIFT.
 - REFER TO PANEL SCHEDULE FOR CIRCUIT BREAKER REQUIREMENTS.
 - PROVIDE 30A DISCONNECT SWITCH FOR LOCAL DISCONNECT AT LIFT.
 - PROVIDE CONDUIT IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS FOR LOWER AND UPPER CONTROLS OF LIFT.
- NEW EXIT LIGHTING FIXTURE (TYPICAL FOR ALL):
 - PROVIDE SELF CONTAINED EMERGENCY BATTERY EXIT SIGN (REFER TO LIGHTING SCHEDULE)
 - EACH EXIT SIGN SHALL BE CIRCUITED TO AN EXISTING UNSWITCHED LIGHTING CIRCUIT IN THE AREA WHERE IT IS LOCATED.
- PROVIDE A NEW LIGHT FIXTURE TO MATCH EXISTING WORK AREA FIXTURES. COORDINATE EXACT TYPE AND CEILING TYPE WITH ARCHITECT. REFER TO NOTE 5.2 FOR FIXTURE SWITCH CONTROL. EXTEND EXISTING WORK AREA LIGHT CIRCUIT TO NEW FIXTURE.



**Lower Falls
Community Center
Accessibility
Improvements**
545 Grove Street
Newton Lower Falls
MA. 02462

Drawing Name:

**ELECTRICAL
NEW POWER,
LIGHTING, AND
FIRE ALARM PLAN**

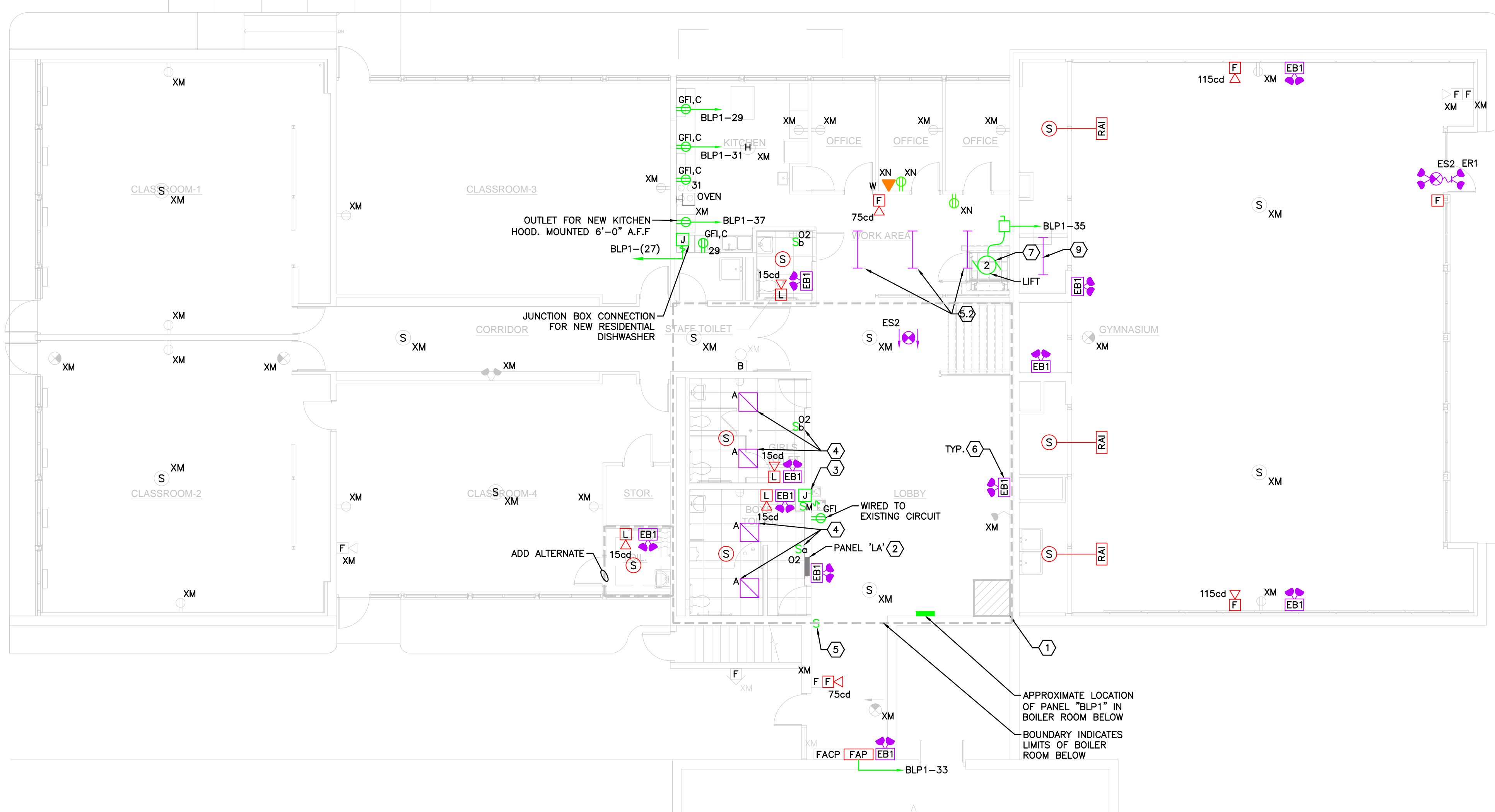
Job No.:
2012-005

Drawing No.

Date:
4-4-13

E2.0

BID DOCUMENTS



ELECTRICAL NEW POWER, LIGHTING AND FIRE ALARM PLAN FIRST FLOOR
Scale: 1/8" = 1'-0"

EXISTING PANELBOARD SCHEDULE									
PANEL: BLP1		VOLTS: 120Y/208V			NEW/EXISTING.: EXISTING				
MAIN: 225A MLO		BUS AMPS: 225A			MOUNT.: SURFACE				
PH/WIRE: 3/4		AIC: XXXK			LOC: MECHANICAL ROOM				
CIR.	AMPS/POLES	DESCRIPTION OF LOAD	LOAD KVA	NOTE	NOTE	LOAD KVA	DESCRIPTION OF LOAD	AMPS/POLES	CIR.
1	-	SPACE					PANEL 'LA'	150/4	2
3	-	SPACE							4
5	-	SPACE							6
7	-	SPACE							8
9	20/1	EXISTING LOAD					EXISTING LOAD	20/1	10
11	20/1	EXISTING LOAD					EXISTING LOAD	20/1	12
13	-	SPACE					SPACE	-	14
15	-	SPACE					SPACE	-	16
17	-	SPACE					SPACE	-	18
19	-	SPACE					EXISTING LOAD	20/1	20
21	-	SPACE					EXISTING LOAD	20/1	22
23	-	SPACE					EXISTING LOAD	20/1	24
25	20/1	ELECTRIC WATER COOLER	1.2				EXISTING LOAD	20/1	26
27	20/1	DISHWASHER	1.2				SPACE	-	28
29	20/1	KITCHEN COUNTER TOP RECEPTS.	.36				EXISTING LOAD	20/1	30
31	20/1	KITCHEN COUNTER TOP RECEPTS.	.36				SPACE	-	32
33	20/1	FIRE ALARM POWER SUPPLY	.72				EXISTING LOAD	20/1	34
35	30/1	HANDICAP LIFT	2.2				SPACE	-	36
37	20/1	COOKING HOOD	.28				EXISTING LOAD	20/1	38
39	20/1	EXISTING LOAD					EXISTING LOAD	20/1	40
41	20/1	EXISTING LOAD					SPACE	20/1	42
			TOTAL CONNECTED KVA:				TOTAL CONNECTED AMPERES:		0.00
			TOTAL CONNECTED AMPERES:				TOTAL CONNECTED KVA:		0.00

NOTES:
1. E.C. SHALL RECONNECT ALL EXISTING LOADS AS NECESSARY THROUGHOUT PROPER INVESTIGATION OF LOADS CURRENTLY IN USE IN FIELD.

EXISTING PANELBOARD SCHEDULE									
PANEL: LA		VOLTS: 120Y/208V			NEW/EXISTING.: EXISTING				
MAIN: 150A MLO		BUS AMPS: 225A			MOUNT.: RECESSED				
PH/WIRE: 1/3		AIC: XXXK			LOC: MEN'S BATHROOM ENTRANCE				
CIR.	AMPS/POLES	DESCRIPTION OF LOAD	LOAD KVA	NOTE	NOTE	LOAD KVA	DESCRIPTION OF LOAD	AMPS/POLES	CIR.
1	20/1	EXISTING LOAD					SPACE	-	2
3	20/1	EXISTING LOAD					EXISTING LOAD	20/1	4
5	20/1	EXISTING LOAD					EXISTING LOAD	20/1	6
7	20/1	EXISTING LOAD					EXISTING LOAD	20/1	8
9	20/1	EXISTING LOAD					EXISTING LOAD	20/1	10
11	20/1	EXISTING LOAD					EXISTING LOAD	20/1	12
13	20/1	EXISTING LOAD					EXISTING LOAD	20/1	14
15	20/1	EXISTING LOAD					EXISTING LOAD	20/1	16
17	20/1	EXISTING LOAD					EXISTING LOAD	20/1	18
19	20/1	EXISTING LOAD					SPARE	20/1	20
21	20/1	SPARE					SPARE	20/1	22
23	20/1	SPARE					EXISTING LOAD	20/1	24
25	20/1	EXISTING LOAD					EXISTING LOAD	20/1	26
27	20/1	EXISTING LOAD					EXISTING LOAD	20/1	28
29	20/1	EXISTING LOAD					EXISTING LOAD	20/1	30
31	20/1	EXISTING LOAD					EXISTING LOAD	20/1	32
33	20/1	EXISTING LOAD					EXISTING LOAD	20/1	34
35	20/1	EXISTING LOAD					EXISTING LOAD	20/1	36
37	20/1	EXISTING LOAD					EXISTING LOAD	20/1	38
39	20/1	EXISTING LOAD					EXISTING LOAD	20/1	40
			TOTAL CONNECTED KVA:				TOTAL CONNECTED AMPERES:		0.00
			TOTAL CONNECTED AMPERES:				TOTAL CONNECTED KVA:		0.00

NOTES:
1. REFER TO DRAWING E2.0 PLAN NOTE 2 FOR PANEL MODIFICATIONS

LIGHTING FIXTURE SCHEDULE									
TYPE	MANUFACTURERS	CATALOG NUMBER	DESCRIPTION	LAMPS		INPUT		REMARKS	
				NO.	TYPE	VOLTS	WATTS		
A	H.E. WILLIAMS	DI-G-S22-224T5H-AD-EB2-U NV	2'X2' RECESSED LENSED FIXTURE	2	T5HO	120	46.6W		
ER1	LITHONIA	76-4-220T12-WG-7611-EB2 -120	EXTERIOR EMERGENCY DUAL HEAD REMOTE FIXTURE	2	5.4W	120	11W		
EB1	EMERGI-LITE	EL-2MRS	EMERGENCY BATTERY PACK	2	MR16	120/277	5W		
ES2	EMERGI-LITE	ELXN400-RN-WG5E	DOUBLE SIDED CEILING MOUNTED EXIT SIGN WITH BATTERY PACK	-	-	120/277	-		

NOTES:
1. NOTES 2-9 APPLY TO ALL APPLICABLE LIGHTING FIXTURES. THE REMARKS COLUMN SHALL NOTE ADDITIONAL REQUIREMENTS.
2. FIXTURES SPECIFIED WITH CATALOG NUMBERS ESTABLISH QUALITY LEVEL FOR EQUAL FIXTURES FROM MANUFACTURERS LISTED WITHOUT CATALOG NUMBERS. WHERE ONLY ONE MANUFACTURER LISTED, THERE SHALL BE NO SUBSTITUTION.
3. VERIFY EXACT MOUNTING CONDITIONS AND PROVIDE APPROPRIATE ACCESSORIES AND HARDWARE TO ACCOMMODATE REQUIREMENTS.
4. FIXTURE TYPE INDICATED ONCE ON A CONTINUOUS ROW SHALL BE TYPICAL OF ALL FIXTURES IN THE ROW UNLESS NOTED OTHERWISE.
5. CONTINUOUS ROWS OF FIXTURES SHALL BE PROVIDED WITH ALL NECESSARY HARDWARE AND FILLERS TO PROVIDE THE EXACT LENGTHS AS INDICATED ON THE PLANS. FIXTURES IN SOFFITS SHALL BE CONTINUOUS END TO END.
6. PROVIDE ALL FLUORESCENT FIXTURES WITH ELECTRONIC BALLASTS WITH MAXIMUM THD OF 20%, PF GREATER THAN 97% AND BF GREATER THAN 0.9. BALLASTS SHALL BE PROGRAMMED RAPID START WITH END-OF-LAMP-LIFE PROTECTION.
7. BALLAST EFFICIENCY SHALL BE GREATER THAN THAT REQUIRED TO ENSURE THAT THE VALUE LISTED FOR INPUT WATTS IS NOT EXCEEDED.
8. FLUORESCENT LAMPS SHALL HAVE A MINIMUM CRI OF 82. LAMP COLOR SHALL BE AS LISTED IN THE SCHEDULE.
9. PROVIDE EXIT SIGNS WITH ARROWS AND MOUNTING ACCESSORIES AS INDICATED ON THE PLANS.



6 THIRTEENTH STREET
CHARLESTOWN, MA. 02129
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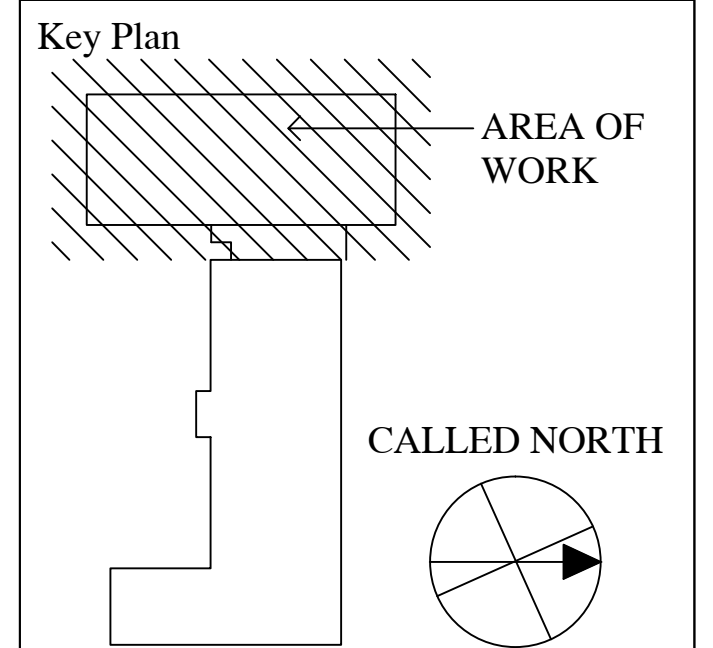
Designed By: CSI ENGINEERING

Drawn By: SIC

Checked By: SSM

REV	DATE	DESCRIPTION
	12/3/2012	90% CONSTRUCTION DOCUMENTS
	2/1/2013	100% CONSTRUCTION DOCUMENTS

Stamp:



**Lower Falls
Community Center
Accessibility
Improvements**
545 Grove Street
Newton Lower Falls
MA. 02462

Drawing Name:

**ELECTRICAL
SCHEDULES**

Job No.:
2012-005

Date:
4-4-13

Drawing No.

E3.0

BID DOCUMENTS

