



21 July 2016

Project No.: C15-0016C

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**BREC – Church Street Recreation Center Revisions**

3210 Church Street; Zachary, LA 70791

BREC Project No. – SB -1672

**ADDENDUM NO. 02**

2 pages excluding attachments

This Addendum forms part of the Contract Documents and modifies the Bid Documents. Prospective bidders shall acknowledge receipt of this Addendum in the space provided on the Bid Form. Failure to do so will subject Bidder to disqualification.

I. GENERAL

1. Information, clarifications, and additional requirements are included and made part of this project.
2. Contractor is reminded to be familiar with and conform to all requirements in the specifications and instructions to Bidders.
3. The Owner has determined there are asbestos containing materials and lead containing paint. Abatement work is included in this scope of work. The work related to abatement is attached hereto.

II. PREVIOUS ADDENDA

1. **Addendum No. 01**, dated 07 July 2016 was issued and distributed via the Owner's electronic plan distribution system.

III. SPECIFICATIONS – N/A

IV. CLARIFICATIONS –N/A

V. DRAWINGS

1. Architectural
  - a. Sheet D1.00, dated 21 July 2016, is attached. Delete previously issued sheet.
  - b. Sheet D1.01, dated 21 July 2016, is attached. Delete previously issued sheet.
  - c. Sheet A1.00, dated 21 July 2016, is attached. Delete previously issued sheet.
  - d. Sheet A1.01, dated 21 July 2016, is attached. Delete previously issued sheet.
  - e. Sheet A1.02, dated 21 July 2016 is attached.
  - f. Sheet A2.00, dated 21 July 2016, is attached. Delete previously issued sheet.
  - g. Sheet A6.01, dated 21 July 2016, is attached. Delete previously issued sheet.

ADDENDUM

– End of Addendum –

Attachments

Sheet D1.00

Sheet D1.01

Sheet A1.00

Sheet A1.01

Sheet A1.02

Sheet A2.00

Sheet A2.01

Sheet A6.01

Abatement Addendum No. 02

Abatement Section 01 10 00 – Summary of Work

Abatement Section 02 82 10 – Removal of Asbestos-Containing Materials

Abatement Section 02 82 40 – Disposal of Asbestos-Containing Materials

Abatement Section 02 83 19 – Removal of Lead-Containing Paint

Abatement Sketch, ENV. 1.0

ADDENDUM



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RENOVATIONS  
**SB #1672 CHURCH STREET RECREATION CENTER**

3210 CHURCH STREET, ZACHARY, LA 70791

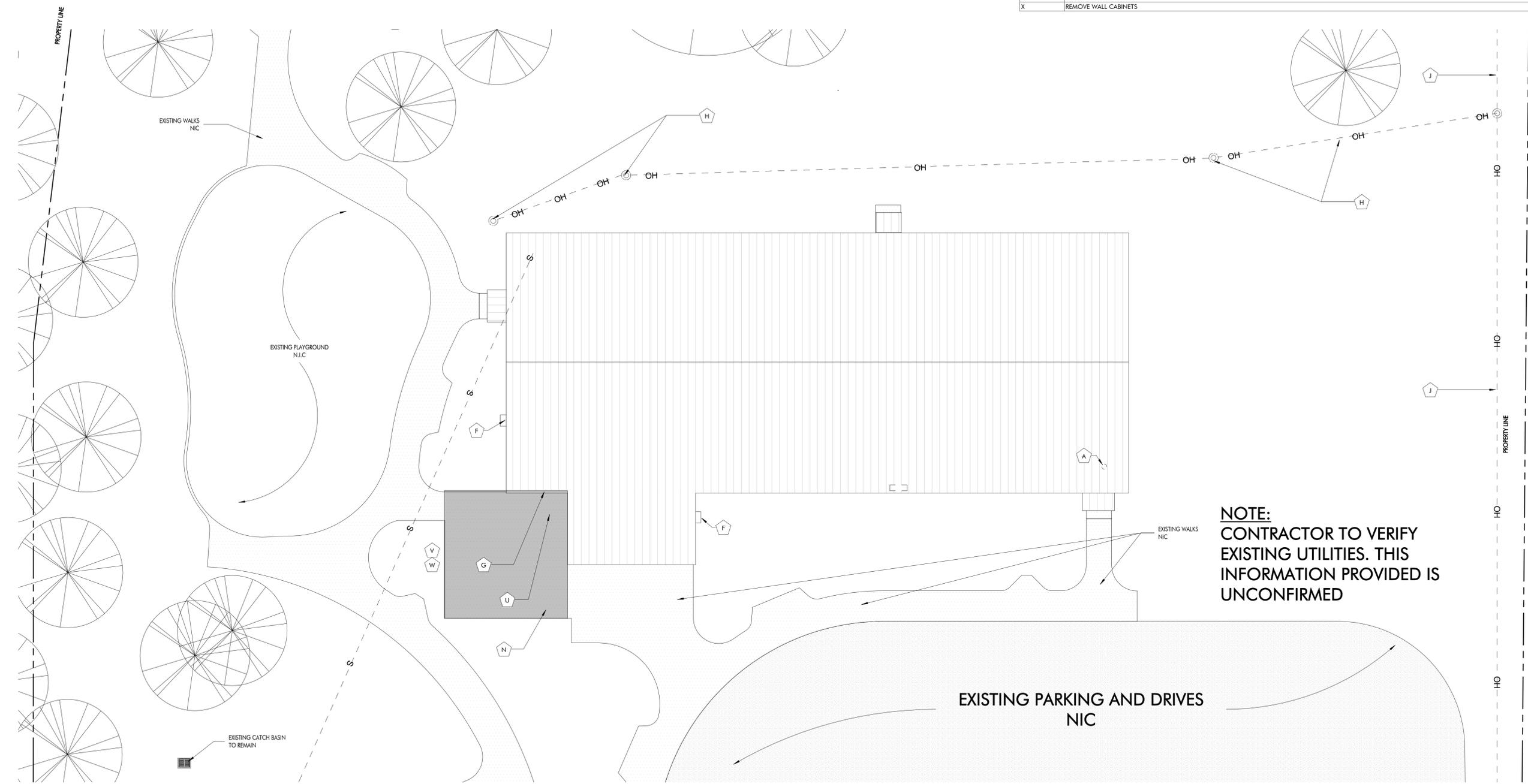
civil engineer:  
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 4609 FAIRFIELD STREET  
 METAIRIE, LA 70006

revisions		
No.	Description	Date
2	ADDENDUM 2	7/21/2016

date  
 15 JUNE 2016

sheet  
**D1.00**

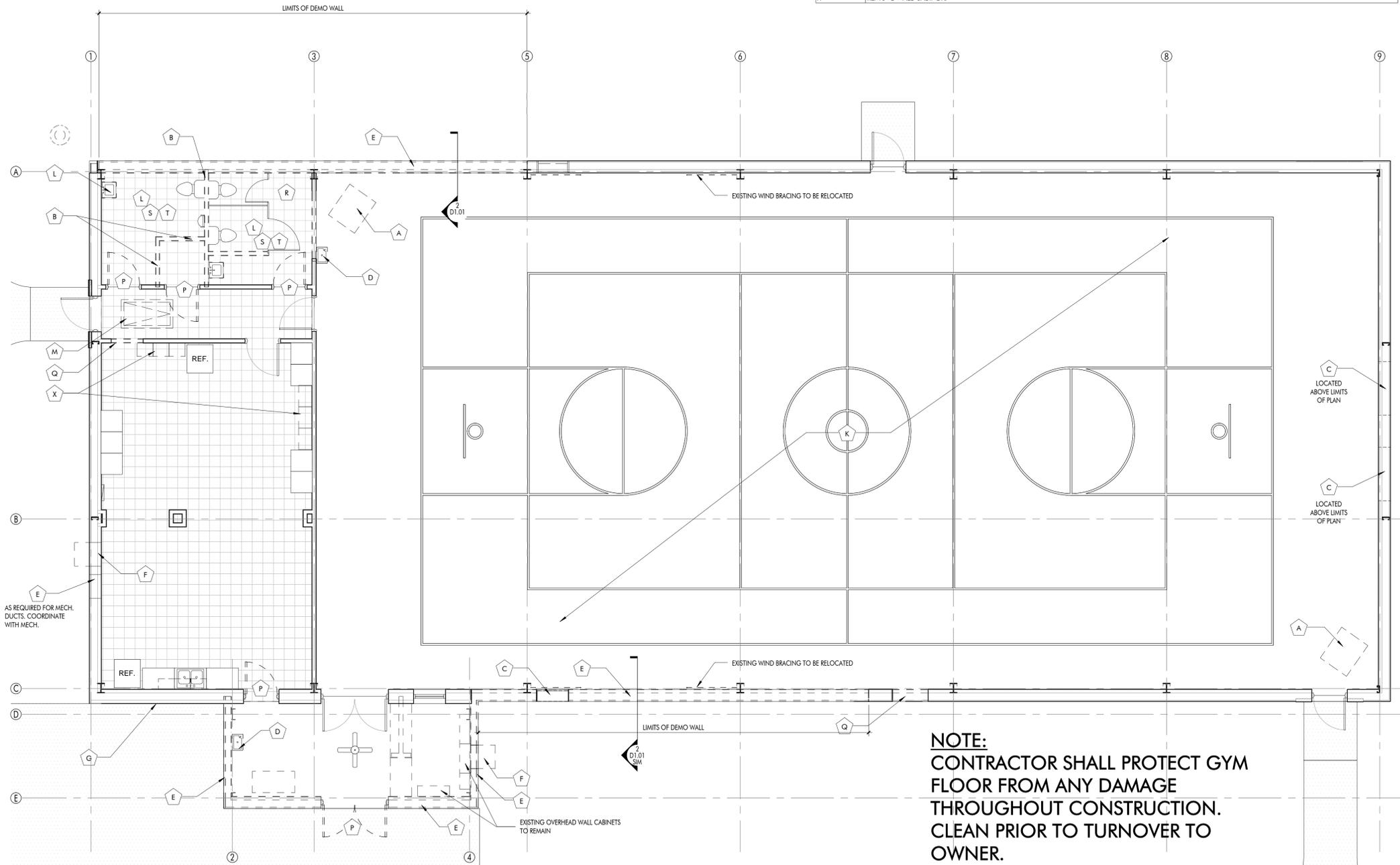
DEMOLITION NOTES	
MARK	DESCRIPTION
A	REMOVE EXISTING GAS FIRED HEATERS, PIPING, AND RELATED APPURTENANCES. INSPECT EXISTING ROOF CONSTRUCTION AND REPAIR ADJACENT CONSTRUCTION AS REQUIRED. REPAIR ROOF AT VTR LOCATION AS INDICATED IN 1/A2.01.
B	DEMOLISH INTERIOR WALL PATCH SLAB AS REQUIRED. PREP FOR NEW VCT FLOORING.
C	REMOVE EXISTING LOUVER, FRAME AND TRIM. CLEAN ROUGH OPENING AND RESTORE TO CONDITION APPROPRIATE FOR NEW INFILL CONSTRUCTION.
D	REMOVE EXISTING WATER COOLER AND SUPPLY AND DRAIN LINES.
E	CAREFULLY DEMOLISH EXTERIOR WALL AND APPLIED FINISHES. ALL COMPONENTS SOLELY FOR THE PURPOSE OF SUPPORTING THE EXTERIOR SKIN TO BE REMOVED. ALL METAL BUILDING AND RELATED COMPONENTS, INCLUDING BUT NOT LIMITED TO LATERAL BRACING GIRTS, OR WIND BRACING TO REMAIN UNDAMAGED. FOUNDATION TO REMAIN UNDISTURBED.
F	REMOVE EXISTING WALL MOUNTED WINDOW UNIT, CONTROLS. REMOVE WOOD TRIM.
G	REMOVE GAS METER. RE. MECH.
H	REMOVE EXISTING UTILITY POLES. OVERHEAD SERVICE TO BE RELOCATED. RE. ELECTRICAL.
J	OVERHEAD LINE TO REMAIN. RE. ELECTRICAL.
K	REMOVE GAS FIRED HEATERS, PIPING, AND RELATED APPURTENANCES. INSPECT EXISTING ROOF CONSTRUCTION AND REPAIR ADJACENT CONSTRUCTION. THE RECREATION CENTER TRUSSES ARE COATED WITH A PAINT THAT CONTAINS LEAD. THE CONTRACTOR SHALL AVOID WORK ACTIVITIES INVOLVING SANDING OF THE PAINT AND DAMAGE TO THE LEAD-CONTAINING PRIMER COAT LAYER. IF THESE WORK ACTIVITIES ARE REQUIRED, THE CONTRACTOR SHALL PROTECT WORKERS AND BUILDING OCCUPANTS, AND PERFORM THESE WORK ACTIVITIES IN ACCORDANCE WITH FEDERAL AND STATE REGULATIONS. AT THOSE IMMEDIATE LOCATIONS OR AREAS OF WORK ACTIVITY, THE PAINT SHOULD BE REMOVED, LOCALLY, AND HANDLED ACCORDING TO FEDERAL AND STATE REGULATIONS. THIS CAN BE BEST ACCOMPLISHED BY A LIQUID PAINT REMOVER. UNBOLTING CLAMPS, SCREWS OR BOLTS ATTACHED TO THE STRUCTURE MAY RELEASE SMALL QUANTITIES OF PAINT. USE CAREFUL METHODS TO DISTURB THE EXISTING PAINT / PRIMER TO AS SMALL OF A DEGREE AS POSSIBLE, AND CLEAN ALL SURFACES AFFECTED IN ACCORDANCE WITH FEDERAL AND STATE REGULATION.
L	REMOVE TOILET ROOM FLOORING. PREP AND CLEAN FOR NEW VCT FLOORING.
M	REMOVE WOODEN ATTIC PULL DOWN STAIR. RETAIN OPENING FRAMING. PREP OPENING AS REQUIRED FOR NEW LIGHTWEIGHT METAL STAIR.
N	REMOVE EXISTING PAVING TO LIMITS SHOWN, AS REQUIRED FOR ADDITION.
P	REMOVE DOOR AND FRAMES.
Q	REMOVE WALL ASSEMBLY AS REQUIRED TO MAKE ROUGH OPENING FOR INSTALLATION OF NEW HOLLOW METAL FRAME AND DOOR.
R	REMOVE EXISTING TOILET PARTITIONS. PATCH SLAB AS REQUIRED.
S	REMOVE WALL MOUNTED HEATERS, FANS, AND APPURTENANCES.
T	REMOVE EXISTING FIXTURES. CAP DRAINAGE AND SUPPLY LINES AT THE SLAB. PREP FOR NEW VCT FLOORING.
U	EXISTING WATER VALVE. RELOCATE AS PER MECHANICAL.
V	REMOVE HC PARKING SIGNAGE.
W	REMOVE BOLLARD AND PIPE RAIL SYSTEM.
X	REMOVE WALL CABINETS.



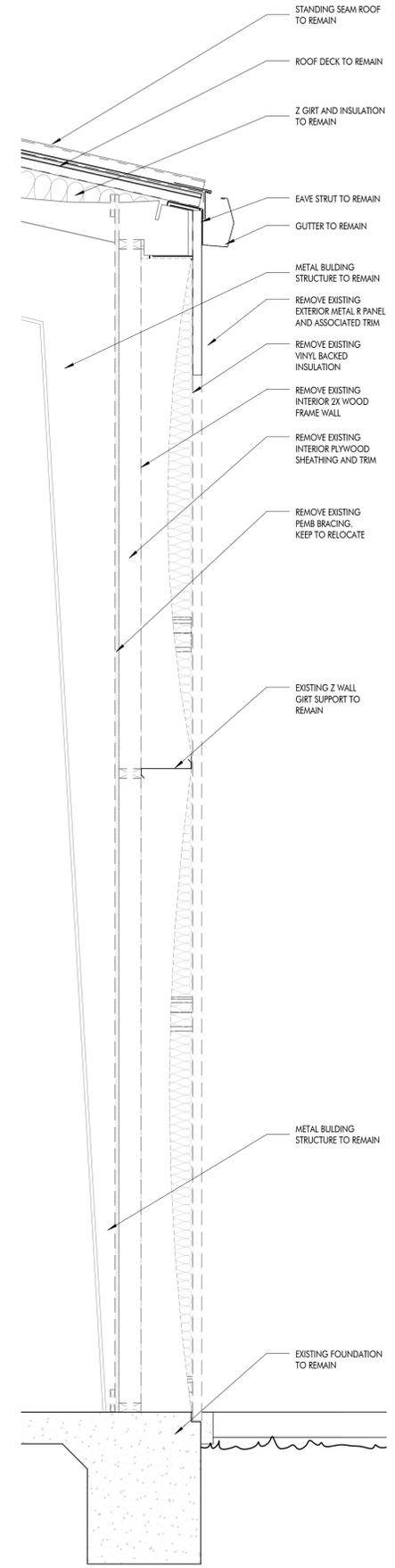
**NOTE:**  
 CONTRACTOR TO VERIFY  
 EXISTING UTILITIES. THIS  
 INFORMATION PROVIDED IS  
 UNCONFIRMED

**1** DEMO SITE PLAN  
 1" = 10'-0"

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E	CAREFULLY DEMOLISH EXTERIOR WALL AND APPLIED FINISHES. ALL COMPONENTS SOLELY FOR THE PURPOSE OF SUPPORTING THE EXTERIOR SKIN TO BE REMOVED. ALL METAL BUILDING AND RELATED COMPONENTS, INCLUDING BUT NOT LIMITED TO LATERAL BRACING GIRTS, OR WIND BRACING TO REMAIN UNDAMAGED. FOUNDATION TO REMAIN UNDISTURBED.
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X	REMOVE WALL CABINETS.



**NOTE:**  
 CONTRACTOR SHALL PROTECT GYM FLOOR FROM ANY DAMAGE THROUGHOUT CONSTRUCTION. CLEAN PRIOR TO TURNOVER TO OWNER.



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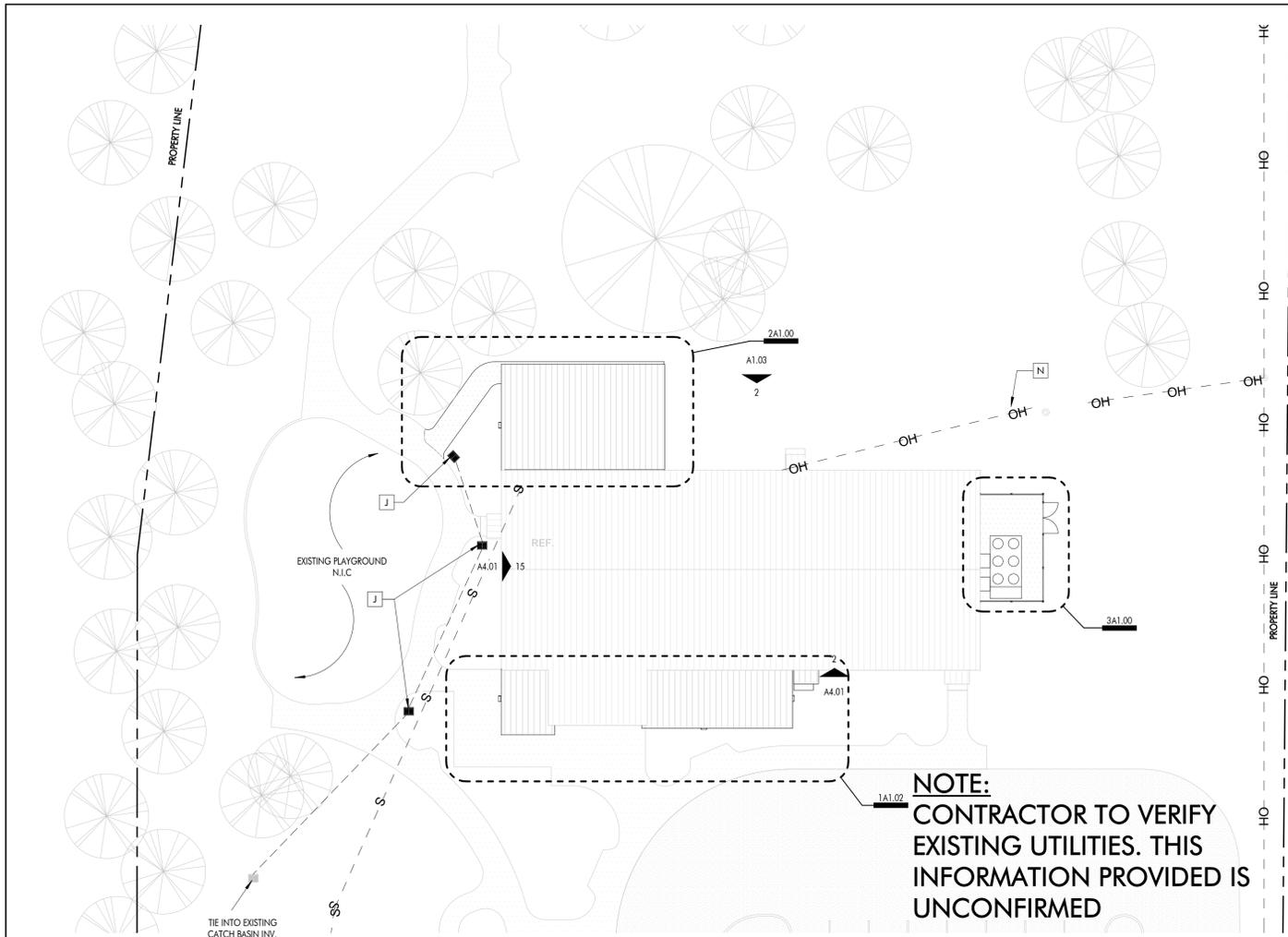
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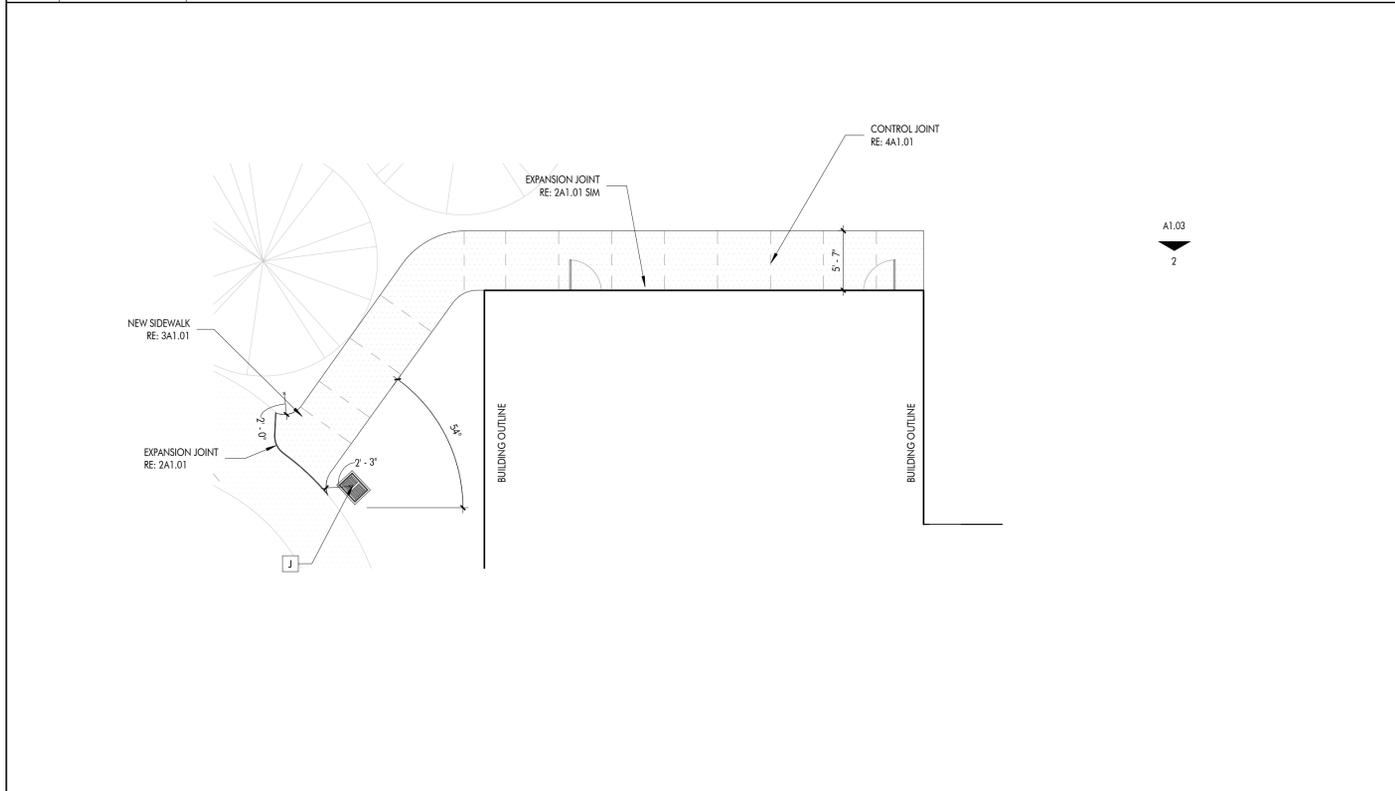
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PROJ. # - C15-0016z  
 date  
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**1** SITE PLAN  
1" = 20'-0"



**2** ENLARGED SITE PLAN  
1/8" = 1'-0"

CONSTRUCTION NOTES	
MARK	DESCRIPTION
A	PATCH HOLE IN WALL LEFT BY DEMOLISHED GAS HEATER FLUE
B	NEW MECHANICAL PAD W/ 6" TALL WOOD FENCE AND GATES
C	NEW WATER COOLERS/BOTTLE FILLER
D	NEW VCT FLOORING WITH 1X WOOD BASE TO MATCH EXISTING
E	NEW EPOXY FLOORING WITH SELF-COVED BASE
F	PATCH HOLE IN WALL LEFT BY DEMOLISHED LOUVER
G	NEW PLUMBING FIXTURES, MIRROR, SOAP DISPENSER, AND TOWEL HOLDER
H	PATCH HOLE IN ROOF LEFT BY DEMOLISHED GAS HEATER FLUE - RE: 4/A2.01
J	NEW CATCH BASIN WITH SUBSURFACE DRAINAGE
K	REMOVE AIR CONDITION WALL UNIT, FILL IN WALL
L	NEW LIGHTING - RE: ELECT.
M	NEW VINYL FACED BATT INSULATION
N	OVERHEAD SERVICE TO BE RELOCATED RE: ELECTRICAL
P	PAINT EXISTING WALLS
Q	INSTALL NEW ATTIC STAIRS



**3** ENLARGED SITE PLAN  
1/4" = 1'-0"

**GENERAL SITE NOTES**

- TREES, STUMPS, ROOTS AND OTHER VEGETATIVE OBSTRUCTIONS NOT DESIGNATED TO REMAIN, SHALL BE CLEARED AND GRUBBED. MATERIAL AND DEBRIS SHALL BE REMOVED FROM THE PROPERTY AND RIGHT-OF-WAY, AND DISPOSED OF BY THE CONTRACTOR.
- CONTRACTOR TO VERIFY LOCATION OF SITE UTILITIES.
- TEMPORARY EROSION CONTROL FEATURES SHALL BE INSPECTED AT LEAST ONCE EVERY 14 CALENDAR DAYS AND WITHIN 24 HOURS AFTER A RAINFALL EVENT OF 0.5 INCHES OR GREATER.
- SILT FENCING SHALL BE WIRE-SUPPORTED OR SELF-SUPPORTED SYSTEMS. WIRE-SUPPORTED SILT FENCING SHALL CONSIST OF STANDARD WOVEN LIVESTOCK WIRE, A MINIMUM OF 36 INCHES IN HEIGHT WITH A MAXIMUM WIRE SPACING OF 6 INCHES. POSTS SHALL BE EITHER WOOD OR STEEL, INSTALLED A MINIMUM OF 2 FEET IN THE GROUND. FILTER MATERIAL SHALL BE BURLAP WEIGHING APPROXIMATELY 7-1/2 OUNCES PER SQUARE YARD, APPROVED LITE FABRIC OR APPROVED GEOTEXTILE FABRIC. SELF-SUPPORTED SILT FENCING SHALL CONSIST OF AN APPROVED GEOTEXTILE FABRIC SUITABLY ATTACHED TO POSTS OF EITHER WOOD OR STEEL.
- SEDIMENT DEPOSITS SHALL BE REMOVED WHEN THE DEPOSITS REACH ONE-HALF THE HEIGHT OF THE SILT FENCE. IF THE FABRIC ON THE SILT FENCE DECOMPOSES OR BECOMES INEFFECTIVE, THE FABRIC SHALL BE REPLACED PROMPTLY.
- HAY OR STRAW BALES SHALL BE RECTANGULAR BALES. THE AVERAGE LENGTH OF BALES SHALL BE 34 INCHES MINIMUM. THE BALES SHALL BE BURIED AS NECESSARY TO PREVENT SCOUR UNDER THE BALES. A MINIMUM OF 2 STAKES SHALL BE DRIVEN THROUGH EACH BALE.
- CONTRACTOR IS REQUIRED TO SUBMIT ANY SWPP AS REQUIRED TO AUTHORITIES HAVING JURISDICTION.
- CONTRACTOR SHALL ADHERE TO ALL LOCAL NOISE ORDINANCES DURING THE DURATION OF CONSTRUCTION.

**SIDEWALK NOTES**

- EXCAVATION SHALL BE MADE TO REQUIRED DEPTH AND WIDTH. THE TOP OF THE SUBGRADE SHALL BE SHAPED AND COMPACTED TO A FIRM, EVEN SURFACE. UNSUITABLE MATERIAL SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR.
- A MINIMUM OF 4 INCH CUSHION SAND SHALL BE USED BENEATH CONCRETE SIDEWALKS AND SHALL BE COMPACTED TO AT LEAST 95% OF STANDARD PROCTOR MAXIMUM DRY DENSITY.
- CONCRETE SHALL BE PLACED ON THE SUBGRADE, STRUCK OFF TO THE REQUIRED THICKNESS AND TAMPED SUFFICIENTLY TO BRING THE MORTAR TO THE SURFACE. THE SURFACE SHALL BE FINISHED WITH A WOOD FLOAT OR STEEL TROWEL, FOLLOWED BY BRUSHING TO A SLIGHTLY ROUGH FINISH PERPENDICULAR TO THE DIRECTION OF FOOT TRAFFIC. JOINTS AND EDGES SHALL BE ROUNDED WITH AN EDGING TOOL, HAVING A 1/4 INCH RADIUS. THE SURFACE SHALL NOT VARY MORE THAN 1/8 INCH UNDER A 10-FOOT METAL STRAIGHT EDGE.
- WELDED STEEL WIRE FABRIC SHALL CONFORM TO ASTM A 185
- WEAKENED PLANES (CONTRACTION JOINTS) SHALL BE FORMED BY SAW CUTS. CONTRACTION JOINTS SHALL EXTEND INTO THE CONCRETE FOR AT LEAST 1/4 OF THE DEPTH AND SHALL BE APPROXIMATELY 1/8 INCH WIDE. SPACINGS OF WEAKENED PLANES FOR SIDEWALKS SHALL BE EQUAL TO THE WIDTH OF THE SIDEWALK.
- DURING HOT AND DRY PERIODS, SAW CUTTING SHOULD OCCUR WITHIN 4 TO 12 HOURS OF PLACEMENT. DURING COOL AND MOIST PERIODS, SAW-CUTTING SHOULD OCCUR WITHIN 24 HOURS OF CONCRETE PLACEMENT. EXPANSION JOINTS SHALL BE FILLED WITH 1/2 INCH THICK PREFORMED EXPANSION JOINT FILLER. EXPANSION JOINTS SHALL BE INSTALLED AT MAXIMUM 40-FOOT INTERVALS AND BETWEEN INTERSECTION PAVING AND ANY FIXED STRUCTURE SUCH AS BUILDING OR CURBING. EXPANSION JOINT MATERIAL SHALL EXTEND FOR THE FULL WIDTH AND DEPTH OF PAVING. EXPANSION JOINTS SHALL BE BITUMINOUS PREFORMED ENCASED BETWEEN TWO LAYERS OF BITUMINOUS IMPREGNATED FELT. SL-1 SEALANT SHALL BE USED AT EXPANSION JOINTS.
- PORTLAND CEMENT CONCRETE SHALL REQUIRE AN APPROVED MIX DESIGN SUBMITTED TO THE ARCHITECT AND SHALL PRODUCE CONCRETE OF SUITABLE WORKABILITY AS WELL AS AN AVERAGE COMPRESSIVE STRENGTH NOT LESS THAN 3,500 PSI AT 28-DAYS.
- 3 TEST CYLINDERS SHALL BE MADE PER 50 CY OF CONCRETE PLACED AND TESTED BY AN INDEPENDENT LICENSED LAB. TEST RESULTS TO BE DELIVERED TO THE ARCHITECT. THE TOTAL AMOUNT OF WATER IN THE MIXTURE, INCLUDING ADMIXTURES AND FREE WATER, SHALL NOT EXCEED THE MAXIMUM WATER-CEMENT RATIO OF 0.53. INTERNAL TEMPERATURE OF THE PLASTIC CONCRETE SHALL NOT EXCEED 95° F AT THE TIME OF PLACEMENT.
- THE CONTRACTOR IS RESPONSIBLE FOR PREPARING AND TESTING INITIAL MIX OF DESIGN FOR EACH MIX TYPE USED.
- CONCRETE SHALL NOT BE PLACED IF THE U.S. WEATHER SERVICE FORECASTS THE TEMPERATURE TO BE LESS THAN 35° F WITHIN THE 24-HOUR PERIOD FOLLOWING PLACEMENT. CONCRETE DAMAGED BY FROST ACTION SHALL BE REMOVED AND REPLACED.
- IMMEDIATELY AFTER COMPLETION OF FINISHING OPERATIONS AND AS SOON AS MARRING OF CONCRETE WILL NOT OCCUR, THE PAVEMENT SURFACE SHALL BE CURED BY COVERING WITH A WHITE PIGMENTED CURING COMPOUND. CONCRETE SHALL NOT BE LEFT EXPOSED FOR MORE THAN 1/2 HOUR PRIOR TO APPLYING THE CURING COMPOUND. CURING SHALL BE MAINTAINED CONTINUOUSLY FOR 72 HOURS. CURING COMPOUND SHALL BE APPLIED UNDER PRESSURE BY MECHANICAL SPRAYERS AT THE RATE RECOMMENDED BY THE MANUFACTURER, BUT IN NO CASE LESS THAN 1 GALLON PER 150 SQUARE FEET OF SURFACE AREA. SHOULD THE FILM BECOME DAMAGED WITHIN THE CURING PERIOD, THE DAMAGED PORTIONS SHALL BE IMMEDIATELY REPAIRED WITH ADDITIONAL COMPOUND.
- PRIOR TO BEGINNING DAILY CONCRETE OPERATIONS, THE CONTRACTOR SHALL HAVE AVAILABLE AT THE JOB SITE, SUFFICIENT POLYETHYLENE SHEETING MATERIAL TO PROPERLY PROTECT THE LAST 1-HOURS OPERATION AGAINST THE EFFECTS OF RAIN.
- THE INTENT IS FOR THE CONTRACTOR TO CONSTRUCT CONCRETE PAVEMENT FREE OF LONGITUDINAL, TRANSVERSE, AND DIAGONAL CRACKS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ALL LONGITUDINAL, TRANSVERSE, AND DIAGONAL CRACKING THAT MAY OCCUR. ALL LONGITUDINAL, TRANSVERSE, AND DIAGONAL CRACKS SHALL BE REPAIRED WITH A FULL DEPTH PATCH BETWEEN REQUIRED CONTRACTION JOINTS. SPALLS IN THE EXISTING PAVEMENT RESULTING FROM PAVEMENT REPAIR IN THE PATCH AREA SHALL BE REPAIRED BY EXTENDING THE REMOVAL LIMITS TO INCLUDE THE SPALLED AREAS. CONCRETE USED FOR PANEL REPLACEMENT REPAIR SHALL BE THE SAME TYPE USED THROUGHOUT THE PROJECT.



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225.216.3771 fax



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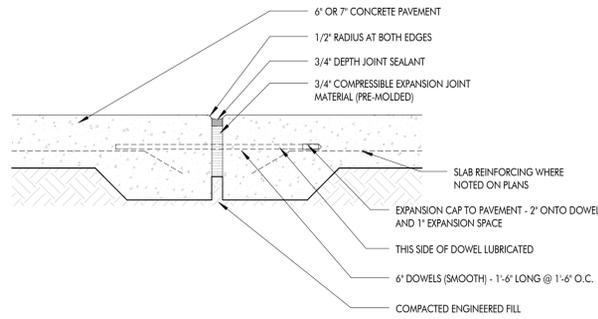
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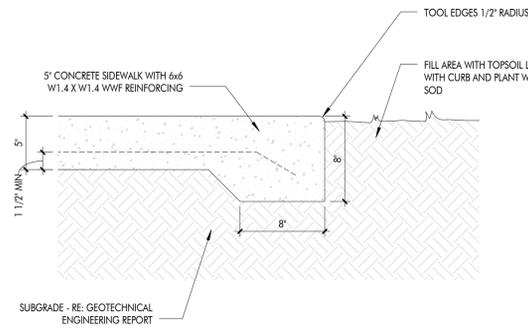
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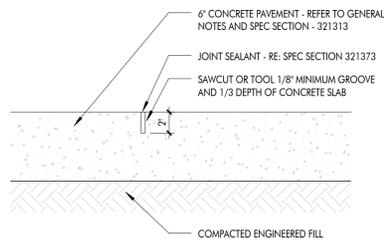
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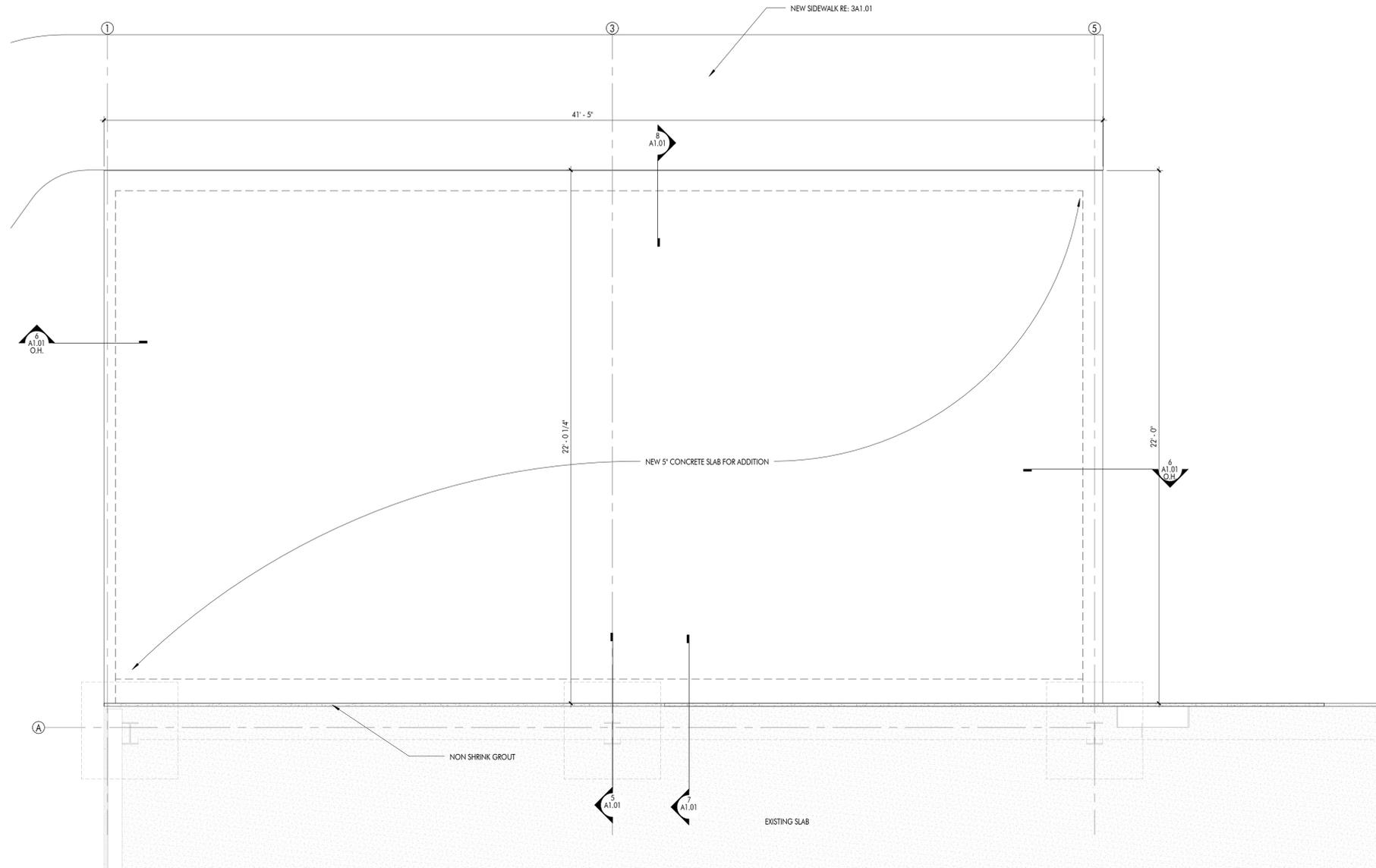
**2** EXPANSION JOINT  
1 1/2" = 1'-0"



**3** NEW SIDEWALK  
1 1/2" = 1'-0"

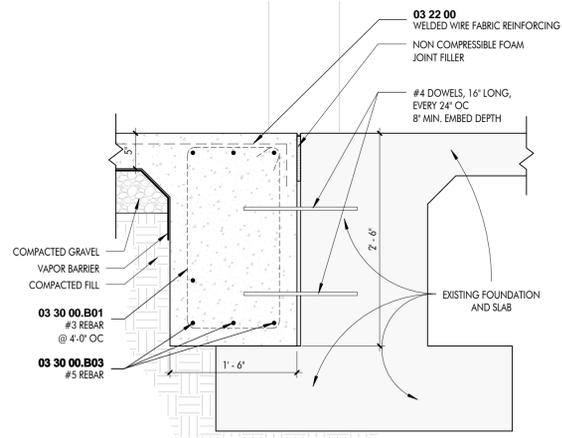


**4** CONTROL JOINT  
1 1/2" = 1'-0"



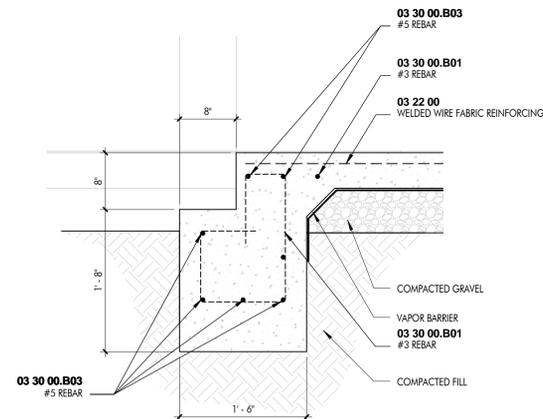
**1** FOUNDATION PLAN  
3/8" = 1'-0"

WALL NOT SHOWN FOR CLARITY



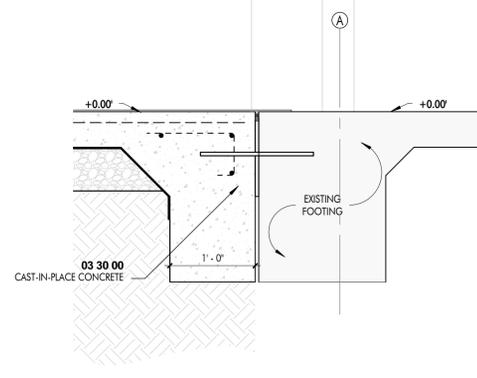
**5** FOUNDATION DETAIL  
1" = 1'-0"

WALL NOT SHOWN FOR CLARITY



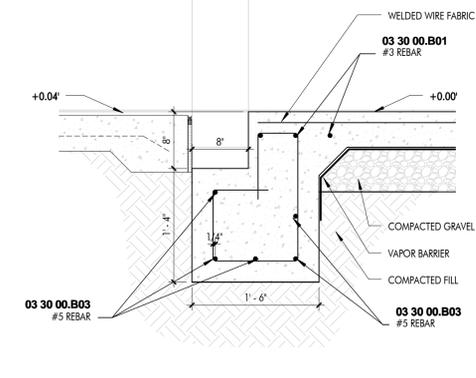
**6** FOUNDATION DETAIL  
1" = 1'-0"

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**7** FOUNDATION DETAIL  
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**8** FOUNDATION DETAIL  
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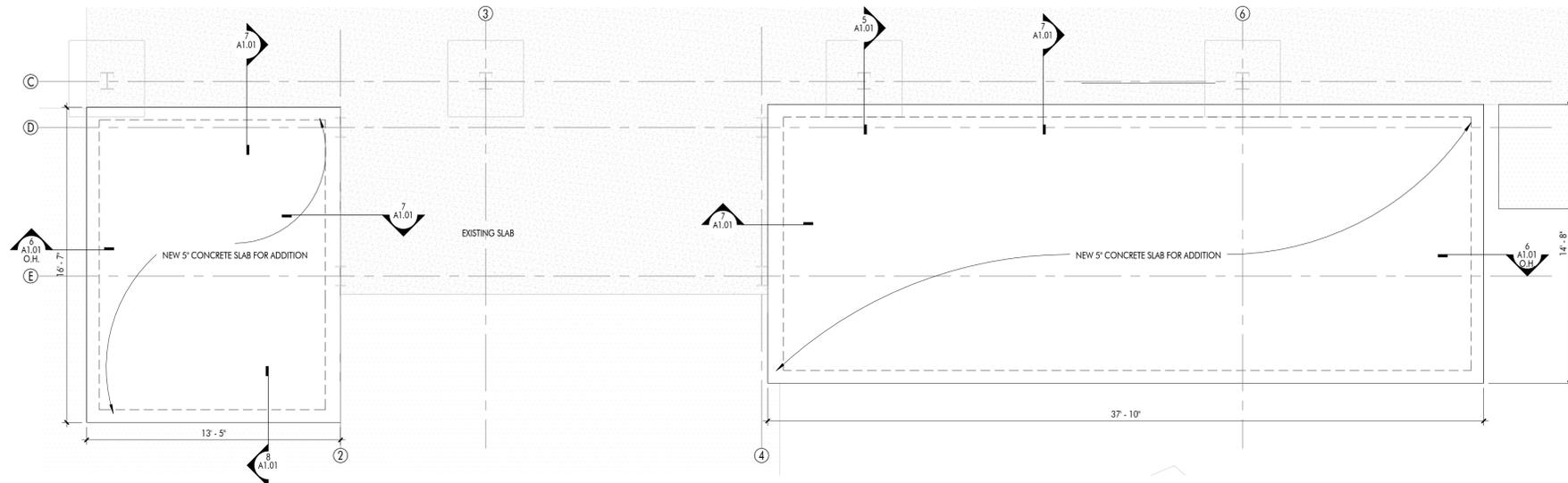
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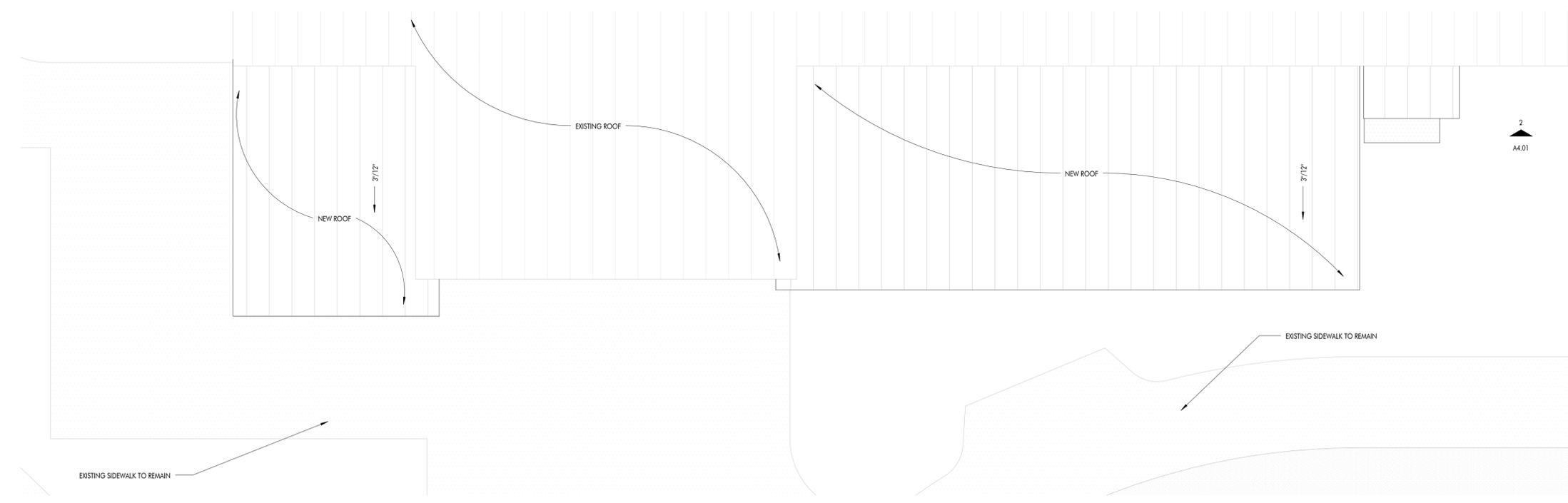
sheet

**A1.01**



CONSTRUCTION NOTES	
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1/4" = 1'-0"



**1** ENLARGED SITE PLAN  
1/4" = 1'-0"

**DOMAIN ARCHITECTURE**  
domain design • noland & wong  
www.domain-dsgn.com  
8516 kelwood avenue  
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These plans were prepared in this office under our personal supervision, and to the best of our knowledge comply with state and local codes. We will generally administer construction.

RENOVATIONS  
**SB #1672 CHURCH STREET RECREATION CENTER**

3210 CHURCH STREET, ZACHARY, LA 70791

Civil Engineer:  
**CRUMB ENGINEERING, LLC**  
4609 FAIRFIELD STREET  
METAIRIE, LA 70006

revisions		
No.	Description	Date
10	Revision 10	Date 10

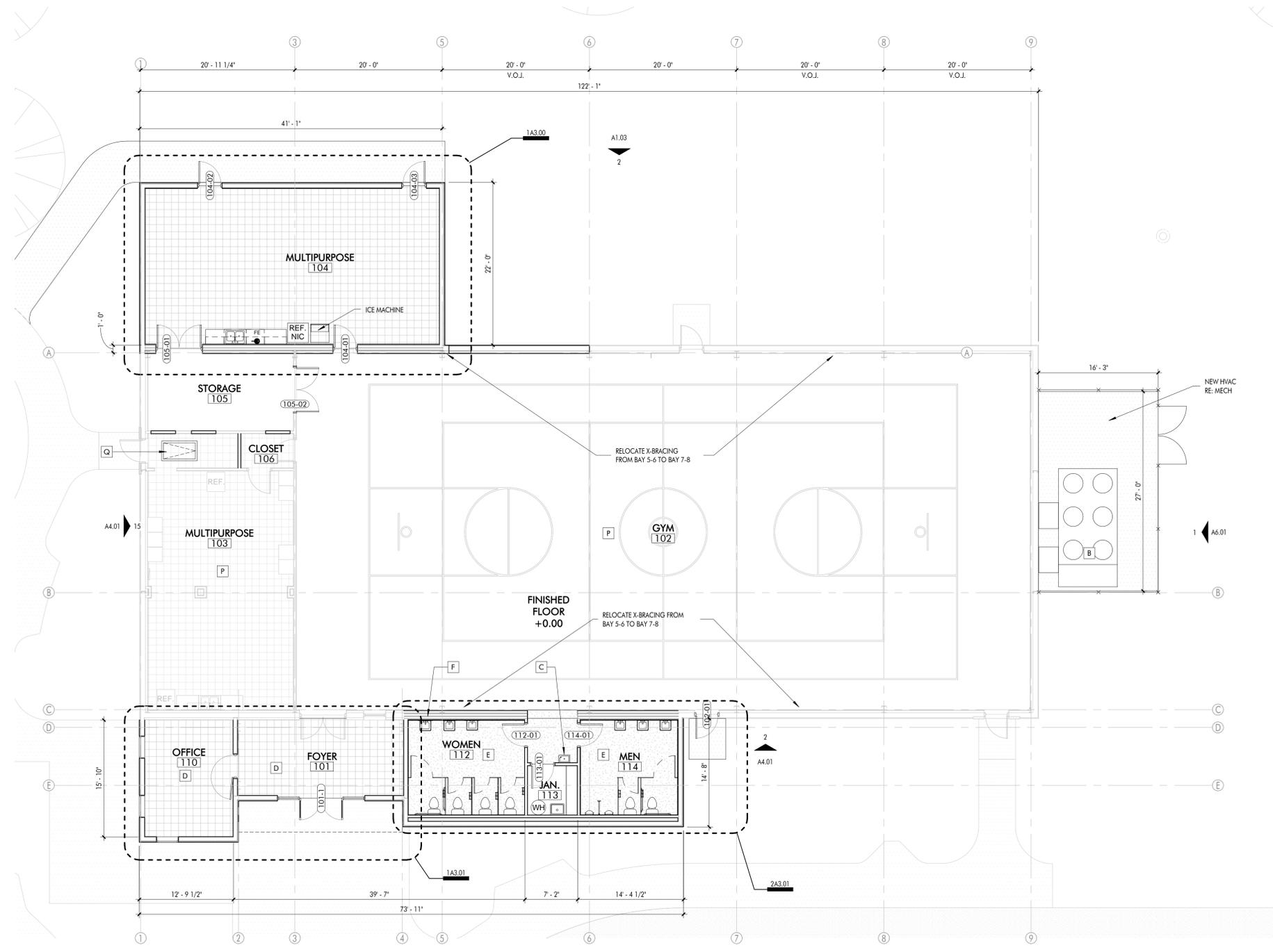
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**15 JUNE 2016**

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**A1.02**

PROJ. # - C15-0016z

CONSTRUCTION NOTES	
MARK	DESCRIPTION
A	PATCH HOLE IN WALL LEFT BY DEMOLISHED GAS HEATER FLUE
B	NEW MECHANICAL PAD W/ 6" TALL WOOD FENCE AND GATES
C	NEW WATER COOLERS/BOTTLE FILLER
D	NEW VCT FLOORING WITH 1X WOOD BASE TO MATCH EXISTING
E	NEW EPOXY FLOORING WITH SELF-COVED BASE
F	PATCH HOLE IN WALL LEFT BY DEMOLISHED LOUVER
G	NEW PLUMBING FIXTURES, MIRROR, SOAP DISPENSER, AND TOWEL HOLDER
H	PATCH HOLE IN ROOF LEFT BY DEMOLISHED GAS HEATER FLUE - RE: 4/A2.01
J	NEW CATCH BASIN WITH SUBSURFACE DRAINAGE
K	REMOVE AIR CONDITION WALL UNIT, FILL IN WALL.
L	NEW LIGHTING - RE: ELECT.
M	NEW VINYL FACED BATT INSULATION
N	OVERHEAD SERVICE TO BE RELOCATED RE: ELECTRICAL
P	PAINT EXISTING WALLS
Q	INSTALL NEW ATTIC STAIRS

FLOOR PLAN LEGEND	
	ELEVATION DATUM HEIGHT DESIGNATION
	DOOR DESIGNATION TAG
	FINISH / MATERIAL DESIGNATION TAG
	REVISION DESIGNATION TAG
	WINDOW DESIGNATION TAG
	WALL DESIGNATION TAG
<b>ROOM NAME</b> 812	ROOM DESIGNATION TAG
	DETAIL DESIGNATION TAG
	INTERIOR ELEVATION DESIGNATION TAG
	EXTERIOR ELEVATION DESIGNATION TAG
	BUILDING / WALL / DETAIL SECTION DESIGNATION TAG



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revisions		
No.	Description	Date
2	ADDENDUM 2	7/21/2016

PROJ. # - C15-0016z  
 date  
**15 JUNE 2016**

sheet  
**A2.00**



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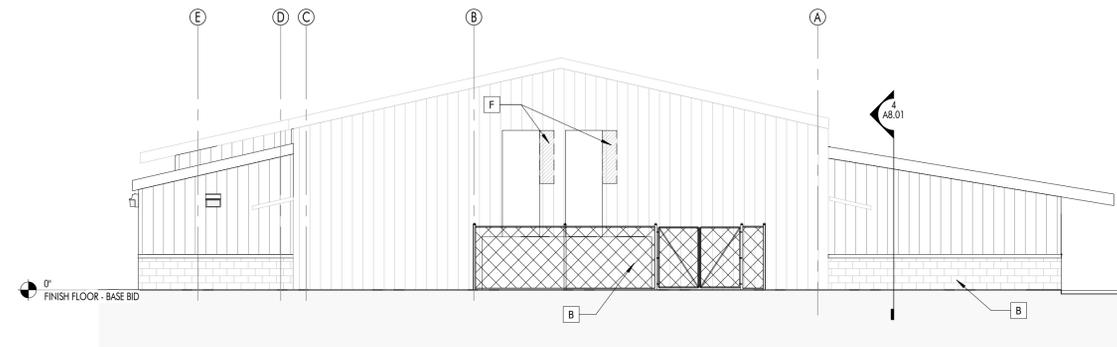
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No.	Description	Date
2	ADDENDUM 2	7/21/2016

PROJ. # - C15-0016z

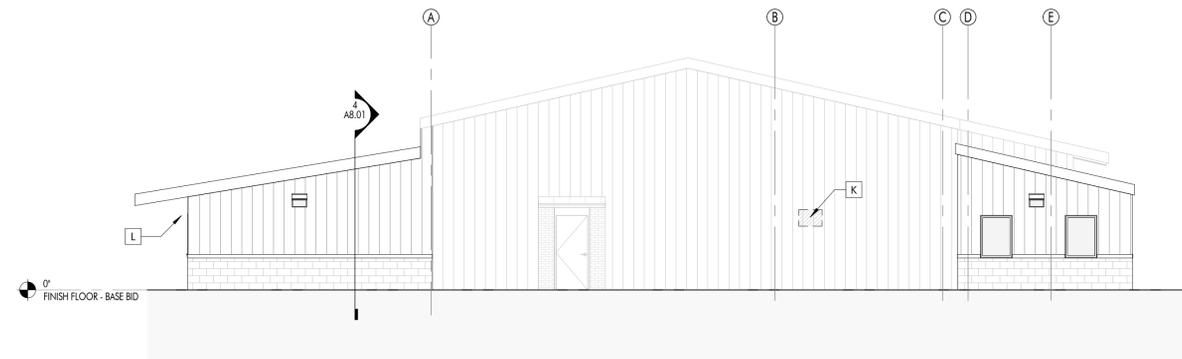
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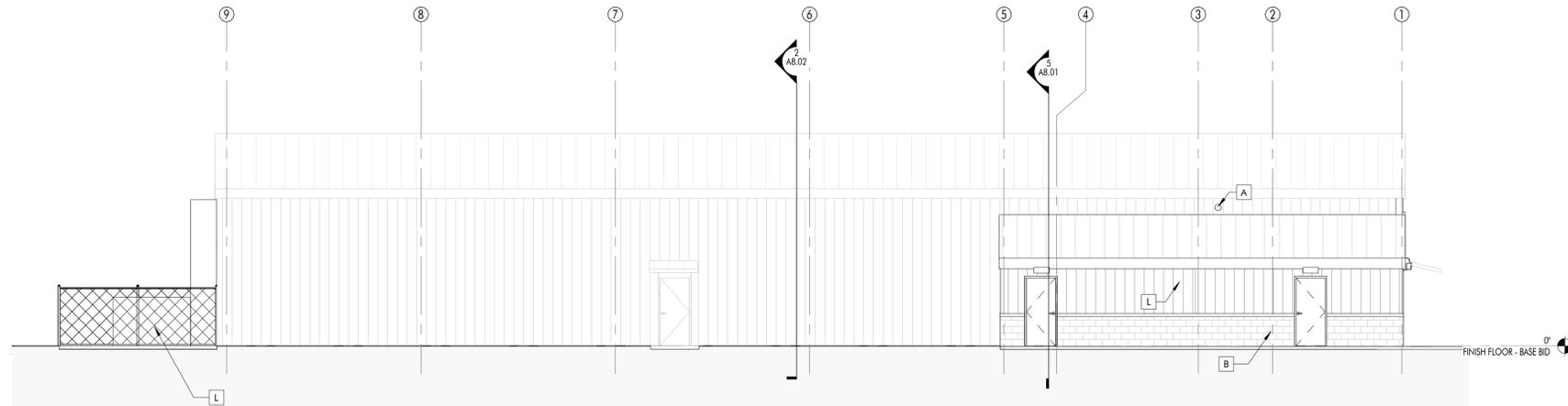
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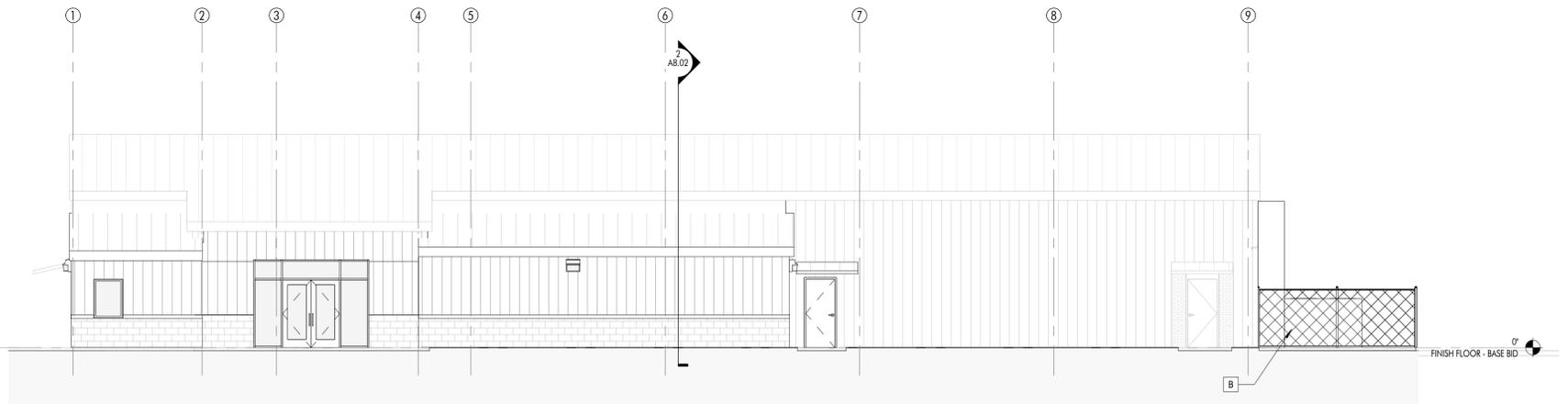
**1** EAST ELEVATION  
 1/8" = 1'-0"



**4** WEST ELEVATION  
 1/8" = 1'-0"



**2** NORTH ELEVATION  
 1/8" = 1'-0"



**3** SOUTH ELEVATION  
 1/8" = 1'-0"

CONSTRUCTION NOTES	
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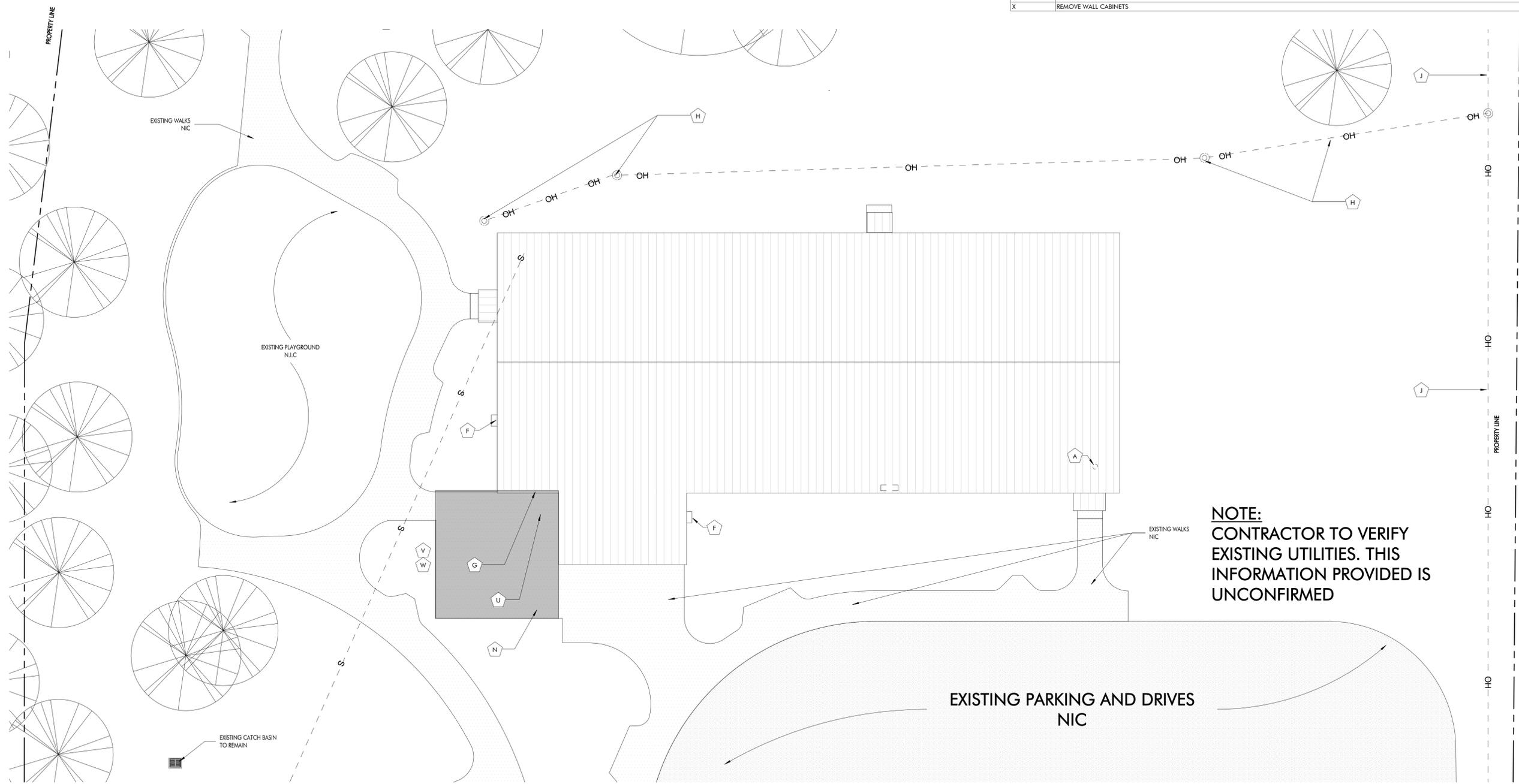
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 METAIRIE, LA 70006

revisions		
No.	Description	Date
2	ADDENDUM 2	7/21/2016

date  
 15 JUNE 2016

sheet  
**D1.00**

DEMOLITION NOTES	
MARK	DESCRIPTION
A	REMOVE EXISTING GAS FIRED HEATERS, PIPING, AND RELATED APPURTENANCES. INSPECT EXISTING ROOF CONSTRUCTION AND REPAIR ADJACENT CONSTRUCTION AS REQUIRED. REPAIR ROOF AT VTR LOCATION AS INDICATED IN 1/A2.01.
B	DEMOLISH INTERIOR WALL PATCH SLAB AS REQUIRED. PREP FOR NEW VCT FLOORING.
C	REMOVE EXISTING LOUVER, FRAME AND TRIM. CLEAN ROUGH OPENING AND RESTORE TO CONDITION APPROPRIATE FOR NEW INFILL CONSTRUCTION.
D	REMOVE EXISTING WATER COOLER AND SUPPLY AND DRAIN LINES.
E	CAREFULLY DEMOLISH EXTERIOR WALL AND APPLIED FINISHES. ALL COMPONENTS SOLELY FOR THE PURPOSE OF SUPPORTING THE EXTERIOR SKIN TO BE REMOVED. ALL METAL BUILDING AND RELATED COMPONENTS, INCLUDING BUT NOT LIMITED TO LATERAL BRACING GIRTS, OR WIND BRACING TO REMAIN UNDAMAGED. FOUNDATION TO REMAIN UNDISTURBED.
F	REMOVE EXISTING WALL MOUNTED WINDOW UNIT, CONTROLS. REMOVE WOOD TRIM.
G	REMOVE GAS METER, RE. MECH.
H	REMOVE EXISTING UTILITY POLES. OVERHEAD SERVICE TO BE RELOCATED. RE. ELECTRICAL.
J	OVERHEAD LINE TO REMAIN. RE. ELECTRICAL.
K	REMOVE GAS FIRED HEATERS, PIPING, AND RELATED APPURTENANCES. INSPECT EXISTING ROOF CONSTRUCTION AND REPAIR ADJACENT CONSTRUCTION. THE RECREATION CENTER TRUSSES ARE COATED WITH A PAINT THAT CONTAINS LEAD. THE CONTRACTOR SHALL AVOID WORK ACTIVITIES INVOLVING SANDING OF THE PAINT AND DAMAGE TO THE LEAD-CONTAINING PRIMER COAT LAYER. IF THESE WORK ACTIVITIES ARE REQUIRED, THE CONTRACTOR SHALL PROTECT WORKERS AND BUILDING OCCUPANTS, AND PERFORM THESE WORK ACTIVITIES IN ACCORDANCE WITH FEDERAL AND STATE REGULATIONS. AT THOSE IMMEDIATE LOCATIONS OR AREAS OF WORK ACTIVITY, THE PAINT SHOULD BE REMOVED, LOCALLY, AND HANDLED ACCORDING TO FEDERAL AND STATE REGULATIONS. THIS CAN BE BEST ACCOMPLISHED BY A LIQUID PAINT REMOVER. UNBOLTING CLAMPS, SCREWS OR BOLTS ATTACHED TO THE STRUCTURE MAY RELEASE SMALL QUANTITIES OF PAINT. USE CAREFUL METHODS TO DISTURB THE EXISTING PAINT / PRIMER TO AS SMALL OF A DEGREE AS POSSIBLE, AND CLEAN ALL SURFACES AFFECTED IN ACCORDANCE WITH FEDERAL AND STATE REGULATION.
L	REMOVE TOILET ROOM FLOORING. PREP AND CLEAN FOR NEW VCT FLOORING.
M	REMOVE WOODEN ATTIC PULL DOWN STAIR. RETAIN OPENING FRAMING. PREP OPENING AS REQUIRED FOR NEW LIGHTWEIGHT METAL STAIR.
N	REMOVE EXISTING PAVING TO LIMITS SHOWN, AS REQUIRED FOR ADDITION.
P	REMOVE DOOR AND FRAMES.
Q	REMOVE WALL ASSEMBLY AS REQUIRED TO MAKE ROUGH OPENING FOR INSTALLATION OF NEW HOLLOW METAL FRAME AND DOOR.
R	REMOVE EXISTING TOILET PARTITIONS. PATCH SLAB AS REQUIRED.
S	REMOVE WALL MOUNTED HEATERS, FANS, AND APPURTENANCES.
T	REMOVE EXISTING FIXTURES. CAP DRAINAGE AND SUPPLY LINES AT THE SLAB. PREP FOR NEW VCT FLOORING.
U	EXISTING WATER VALVE. RELOCATE AS PER MECHANICAL.
V	REMOVE HC PARKING SIGNAGE.
W	REMOVE BOLLARD AND PIPE RAIL SYSTEM.
X	REMOVE WALL CABINETS.



**NOTE:**  
 CONTRACTOR TO VERIFY  
 EXISTING UTILITIES. THIS  
 INFORMATION PROVIDED IS  
 UNCONFIRMED

**1** DEMO SITE PLAN  
 1" = 10'-0"

**ADDENDUM NO. 2**

**ENVIRONMENTAL ABATEMENT  
CHURCH STREET RECREATION CENTER  
3210 CHURCH STREET  
ZACHARY, LOUISIANA**

**CONSTRUCTION DOCUMENTS**

**PREPARED BY:**

**RAYNER CONSULTING GROUP, LLC  
7353 HIGHLAND ROAD SUITE B-3B  
BATON ROUGE, LOUISIANA 70808**

**RCG PROJECT NO. 13-203**

**JULY 21, 2016**

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**DISPOSAL OF ASBESTOS CONTAINING  
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**REMOVAL AND DISPOSAL OF LEAD-CONTAINING  
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**SKETCH OF CHURCH STREET RECREATION CENTER AND SHEET NOTES**

**SECTION 01 10 00 SUMMARY OF WORK**

PART 1.0 - GENERAL

This Addendum No. 2 is for the Environmental Abatement Associated with the Church Street Recreation Center, 3210 Church Street in Zachary, Louisiana. The Project involves the removal and disposal of the asbestos-containing ceiling texture and flooring mastic residue in the Men's and Women's Restroom; truss lead-containing paint coating and the louver caulking and heater exhaust flue where they exist.

RELATED DOCUMENTS:

- 1.1 CONTRACT DOCUMENTS: Related requirements and conditions that are indicated on the Contract Documents include, but are not necessarily limited to the following.

Applicable codes and regulations.  
Notices and permits.  
Existing site conditions and restrictions on use of the site.  
Requirements for Owner occupancy during the Contractor Work.

- 1.2 SUMMARY BY REFERENCES: Work of the Contract can be summarized by references to this Scope of Work. Work of the Contract is also unavoidably affected or influenced by governing regulations, natural phenomenon including weather conditions and other forces outside the Contract Documents and the Domain Design Contract Documents.

- 1.3 SUMMARY OF SITE CONDITIONS: The Contractor shall verify site conditions, scope of work, and requirements of the Project. The Contractor is responsible for obtaining all permits prior to demolition of the building and removal and termination of utilities and drainage.

Contractor is informed that the Work is located at 3210 Church Street, in Zachary, Louisiana. The Contractor shall coordinate all construction staging and parking with the Architect and BREC and the Designer and note: Utilities are available on Site and the Contractor is responsible for supplying necessary electrical power and water to the Work Areas to complete the Work and for the Air Monitoring Firm use to perform his activities.

- 1.4 SCOPE OF WORK AND PHASING: The Scope of Work includes the safe removal and disposal of the asbestos-containing ceiling texture and flooring mastic residue in the Men's and Women's Restroom; truss lead-containing paint coating, the louver caulking and heater exhaust flue where they exist, and contractors' temporary facilities and delivery of electrical power and water to the Work Areas as necessary to perform the Work. The Contractor shall repair, grade, smooth and sod area around the building that are damaged by the Work.

The Contractor shall perform the work as follows:

GENERAL ENVIRONMENTAL NOTES:

1. THE CONTRACTOR SHALL ISOLATE THE WORK AREAS, POST WARNING SIGNS, DISCONNECT, LOCKOUT AND TAG THE ELECTRICAL SYSTEM AS DESCRIBED IN SECTION 02 82 10, ESTABLISH DECONTAMINATION

ADDENDUM NO. 2 - ENVIRONMENTAL ABATEMENT  
SB # 1672 CHURCH STREET RECREATION CENTER  
3210 CHURCH STREET, ZACHARY, LOUISIANA

FACILITIES, AND PERFORM ALL PREABATEMENT ACTIVITIES AS DESCRIBED IN SECTIONS 02 82 10 AND 02 82 40.

2. THE CONTRACTOR SHALL NOTE: POWER AND WATER ARE AVAILABLE ON THE SITE, HOWEVER THE CONTRACTOR SHALL METER BOTH WATER AND POWER AND PROVIDE TEMPORARY POWER AND LIGHTING EQUIPPED WITH GROUND FAULT INTERRUPTER (GFI) DEVICES AS DESCRIBED IN SECTIONS 02 82 10 AND 02 82 40. ALL CONNECTIONS FOR TEMPORARY POWER FROM PERMANENT SERVICES ARE TO BE PERFORMED BY A QUALIFIED ELECTRICIAN. THE CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR AND DESIGNER PRIOR TO PERFORMING SHUTDOWNS OR TIE-INS.

3. THE CONTRACTOR SHALL ENSURE THAT ALL EMPLOYEES UTILIZE PROPER PROCEDURES FOR RESPIRATORY AND PERSONNEL PROTECTION AND DECONTAMINATION PROCEDURES AS DESCRIBED IN SECTIONS 02 82 10 AND 02 82 40.

4. THE CONTRACTOR SHALL INSTALL AND ERECT SUFFICIENT SCAFFOLDING AND/OR WORK PLATFORMS TO ACCESS ALL AREAS AND COMPLETE ALL TASKS INVOLVED IN THE ABATEMENT ACTIVITIES. INSTALLATION AND ERECTION OF SCAFFOLDING AND WORK PLATFORMS SHALL BE DONE IN STRICT COMPLIANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL LAWS AND REGULATIONS AS DESCRIBED IN SECTIONS 02 82 10 AND 02 82 40.

5. THE CONTRACTOR SHALL INSTALL RIGID BARRIER WALLS AND CAULK AND SEAL CONNECTIONS TO EXISTING WALLS, FLOOR, AND DECK, (IF REQUIRED), AS DESCRIBED IN SECTIONS 02 82 10 AND 02 82 40. REFER TO DETAIL FOR RIGID BARRIER WALLS. THE CONTRACTOR SHALL REMOVE ALL RIGID BARRIER WALLS AFTER RECEIPT OF WRITTEN APPROVAL FROM THE ENVIRONMENTAL CONSULTANT. ALL MATERIALS USED SHALL BE FIRE RETARDANT.

6. THE CONTRACTOR SHALL PROTECT THE ROOF STORM WATER SYSTEM PIPING AND STORM DRAINS DURING THE ENVIRONMENTAL REMOVAL PHASE OF THE WORK.

7. THE CONTRACTOR SHALL UTILIZE PROPER ENGINEERING CONTROLS AND CONDUCT PERSONNEL MONITORING THROUGHOUT THE ENVIRONMENTAL PHASE OF THE PROJECT IN ACCORDANCE WITH SECTIONS 02 82 10 AND 02 82 40.

8. THE CONTRACTOR SHALL INSTALL HEPA-FILTERED EXHAUST SYSTEMS AS DESCRIBED IN SECTIONS 02 82 10 AND 02 82 40.

9. THE CONTRACTOR SHALL INSTALL AUTOMATIC AIR PRESSURE DIFFERENTIAL RECORDING INSTRUMENTS IN THE WORK AREAS AS DESCRIBED IN SECTIONS 02 82 10 AND 02 82 40. (ONLY AS REQUIRED, NOT REQUIRED FOR EXTERIOR WORK)

10. THE CONTRACTOR SHALL MAINTAIN EMERGENCY EXITS AS DESCRIBED IN SECTIONS 02 82 10 AND 02 82 40, DURING THE ENVIRONMENTAL REMOVAL PHASE OF THE WORK.

11. BEFORE COMMENCING WORK WITHIN THE WORK AREA, THE CONTRACTOR SHALL INSPECT THE WORK ENCLOSURE FOR BREACHES AND ASSIST THE ENVIRONMENTAL CONSULTANT IN THEIR EFFORTS TO SMOKE TEST FOR LEAKS AS DESCRIBED IN SECTIONS 02 82 10 AND 02 82 40. THE CONTRACTOR SHALL SEAL PROPERLY ANY LEAKS BEFORE BEGINNING WORK.

12. AFTER THE WORK AREAS HAVE BEEN PREPARED, THE CONTRACTOR SHALL REQUEST A FORMAL SITE INSPECTION BY THE ENVIRONMENTAL CONSULTANT. THE CONTRACTOR SHALL NOT COMMENCE REMOVAL OR OTHER DISTURBANCE OF ASBESTOS-CONTAINING MATERIALS, DUST, OR DEBRIS UNTIL THE ENVIRONMENTAL CONSULTANT HAS INSPECTED AND APPROVED THE SITE PREPARATION WORK.

13. THE CONTRACTOR SHALL SCHEDULE WASTE DISPOSAL IN ADVANCE WITH THE ENVIRONMENTAL CONSULTANT.

14. THE CONTRACTOR SHALL ENSURE THAT ALL EQUIPMENT SCHEDULED TO REMAIN FOR THE PROTECTION OF THE BUILDING IS COMPLETELY CLEANED OF ALL ASBESTOS-CONTAINING MATERIALS AND PROTECTED; DURING THE ENVIRONMENTAL REMOVAL PHASE OF THE WORK.

15. THE CONTRACTOR SHALL CLEAN, THE MECHANICAL AND ELECTRICAL EQUIPMENT AND WALLS, TO OBTAIN ACCESS TO THE ASBESTOS-CONTAINING MATERIALS. THE MECHANICAL AND ELECTRICAL EQUIPMENT WHICH IS CLEANED BY THE CONTRACTOR SHALL BE INSPECTED VISUALLY BY THE ENVIRONMENTAL CONSULTANT.

16. THE CONTRACTOR SHALL SEAL ALL OPENINGS THROUGH WALLS, SLAB/DECK AND ROOF THAT EXIST OR WILL BE CREATED BY THE REMOVAL PROCESS TO PROTECT THE SAFETY OF WORKERS.

17. THE CONTRACTOR SHALL FIELD VERIFY THE QUANTITY OF ASBESTOS-CONTAINING MATERIALS TO BE REMOVED AND DISPOSED OF, THE QUANTITY OF MECHANICAL AND ELECTRICAL EQUIPMENT AND PIPING TO BE CLEANED.

18. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE DESIGNER OF ANY UNIDENTIFIED HAZARDOUS MATERIALS, OR SUSPECT HAZARDOUS MATERIALS FOUND DURING ABATEMENT OPERATIONS.

19. FINAL AIR TESTING SHALL BE PERFORMED PURSUANT TO THE UNITED STATES ENVIRONMENTAL PROTECTION AGENCY 40 CFR PART 763 (APPENDIX A) USING TRANSMISSION ELECTRON MICROSCOPY (TEM), AGGRESSIVE DISTURBANCE PROCEDURES, CONTINUOUS AIR CIRCULATION, AND HEPA-FILTERED EXHAUST.

20. THE CONTRACTOR SHALL MAINTAIN PROPER FEDERAL AND STATE LICENSING TO CONDUCT HAZARDOUS MATERIAL REMOVAL AND DISPOSAL AS DESCRIBED WITHIN THESE DOCUMENTS.

**ENVIRONMENTAL SHEET NOTES:**

1. THE CONTRACTOR SHALL REMOVE THE CEILING TEXTURE, TAPE AND MUD AND DISPOSE OF ASBESTOS-CONTAINING MATERIAL IN ACCORDANCE WITH SECTIONS 02 82 10 AND 02 82 40.

2. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF PAINT/COATING FROM THE SUPPORT TRUSS AS NECESSARY TO ACCOMMODATE THE WORK; REMOVE A 2 FOOT AREA AROUND THE WORK AND DISPOSE OF AS LEAD-CONTAINING MATERIAL IN ACCORDANCE WITH SECTION 02 83 19. THE CONTRACTOR SHALL REMOVE LOUVER CAULKING (WHERE IT EXISTS) AND DISPOSE OF AS ASBESTOS-CONTAINING MATERIAL IN ACCORDANCE WITH SECTIONS 02 82 10 AND 02 82 40.

3. THE CONTRACTOR SHALL REMOVE THE HEATER EXHAUST FLUE (WHERE IT EXISTS) AND DISPOSE OF AS ASBESTOS-CONTAINING MATERIAL IN ACCORDANCE WITH SECTIONS 02 82 10 AND 02 82 40.

4. THE CONTRACTOR SHALL REMOVE REMAINING FLOORING MASTIC RESIDUE (WHERE IT EXISTS WITHIN THE MENS AND WOMENS RESTROOM) AND DISPOSE OF AS ASBESTOS-CONTAINING MATERIAL IN ACCORDANCE WITH SECTIONS 02 82 10 AND 02 82 40. FLOOR TILES DO NOT CONTAIN ASBESTOS, HOWEVER IF THE MASTIC ADHERES TO THE FLOOR TILES, THE FLOOR TILES SHALL BE HANDLED AS AN ASBESTOS-CONTAINING IN ACCORDANCE WITH SECTIONS 02 82 10 AND 02 82 40.

Contractor is responsible for the necessary provisions for delivering continuous clean air to the Work Area during the activities related to the work activities associated with the actual removal and disposal of asbestos-containing materials, removal and disposal of lighting fixtures that contain PCB-Containing ballasts and Mercury-Containing lamps. At this time, there are no materials to be salvaged by the Owner. **The Contractor shall certify that he is licensed under the provisions of LA R.S. 37:2150 through 37:2192 and state his license number on the proposal.** The Proposer hereby agrees to commence work under this Contract on a date specified by the Owner and to fully complete the project within 10 days thereafter. Further the Low Proposer will have ten (10) days to get all of the required contract information submitted to BREC Purchasing. If this information is not submitted within the ten (10) days, the unexecuted contract will be terminated and the contract will be awarded to the next low proposal.

The Contractor shall be responsible for proper and safe disposal of all materials designated and record keeping and reporting in accordance with applicable federal, state, and local regulations.

- 1.5 WORK INCLUDED: Special coordination will be required by this Contractor to protect against adjacent property damage and disruption of operations of adjacent buildings and building occupants and uninvolved Site improvements, parking and drainage. Additionally, the Contractor shall coordinate with and assist the third party Air Monitoring Firm, (described as the Owner's Representative throughout these documents), with his duties to monitor and clear the Work Area.

This Contractor shall plan his work and the work of his subcontractors and suppliers in a manner to avoid conflict with the demolition Work and to effect timely sequencing of his work within the overall schedule.

- A. RESPONSIBILITIES: Responsibilities are delineated as follows:

Utilities to perform Work - By this Contractor

Environmental Abatement and Disposal - By this Contractor

Third Party Daily Monitoring and Clearance - Third Party Paid by the Owner (Owner's Representative)

Fire Security – By this Contractor.

Security – The Contractor shall keep the Site secure for the duration of the Project. The Contractor shall coordinate with the Designer, the BREC Facility personnel and the Baker Police.

- B. FIRE SECURITY: The Contractor shall ensure that there is no activity that requires a flame or heat exceeding the flash point of any onsite material will be permitted. Smoking within the building will not be permitted at any time. A space outside the building envelope can be designated for smoking.

- C. COORDINATION: The Contractor shall designate a key person, who shall be responsible for the coordination of the Contractor's Work with the Designer, the Third Party Air Monitoring and Inspection Firm (Owners Representative during the Hazardous Materials Removal and Disposal) and others as required.

1.6 PLAN OF ACTION:

The Contractor shall submit a plan of the procedures proposed for use in complying with the requirements of this project. Include in the plan the location and layout of decontamination areas, the sequencing of work, methods to be used to assure the safety of Contractor Employees and visitors to the site, disposal plan including location of approved disposal site, and a detailed description of the methods to be employed to control pollution.

1.7 INSPECTION:

Prior to commencement of work, the Contractor shall inspect areas in which work will be performed. Prepare a listing of damage to structure, surfaces, equipment or of surrounding properties which could be misconstrued as damage resulting from the work. Photograph or videotape existing conditions as necessary to document conditions. Submit to Owner's Representative prior to starting work.

1.8 PROJECT MEETINGS:

Meetings will be held prior to the commencement of the Work, weekly and upon completion of the Work.

1.9 POTENTIAL ASBESTOS HAZARDS:

The disturbance or dislocation of asbestos-containing materials may cause the release of asbestos fibers to be released into the building's atmosphere, thereby creating a potential health hazard to workmen and building occupants. Apprise all workers, supervisory personnel, subcontractors and consultants who will be at the job site of the seriousness of the hazard and of proper work procedures to be followed.

1.10 CODES AND REGULATIONS

General Applicability of Codes and Regulation, and Standards: Except to the extent that more explicit or more stringent requirements are written directly into the Contract Documents, all applicable codes, regulations, and standards have the same force and effect (and are made a part of the contract documents by reference) as if copies directly into the contract documents, or as if published copies are bound herewith.

Contractor Responsibility: The Contractor shall assume full responsibility and liability for the compliance with all applicable Federal, State, and local regulations pertaining to work practices, hauling, disposal, and protection of workers, visitors to the site, and persons occupying areas adjacent to the site. The Contractor is responsible for providing medical examinations and

maintaining medical records of personnel as required by the applicable Federal, State, and local regulations. The Contractor shall hold the Owner and Owner's Representative harmless for failure to comply with any applicable work, hauling, disposal, safety, health, or other regulation on the part of himself, his employees, or his subcontractors.

1.11 APPLICABLE PUBLICATIONS: The publications listed below form a part of this specification to the extent referenced. The publications are referenced in text by basic designation only. The latest publication shall apply.

- A. Environmental Protection Agency (EPA): Regulations for Asbestos (Code of Federal Regulation, Title 40, Part 61), National Emission Standard for Hazardous Air Pollutants (NESHAP), Guidance for Controlling Friable Asbestos Containing Materials in Buildings, Asbestos Hazard Emergency Response Act (AHERA) (40 CFR, Part 763) (if required).
- B. Occupational Safety and Health Administration (OSHA): Asbestos Regulations (Code of Federal Regulations Title 29, Part 1901, Sections 1915.001 and 1926.1101), 1910 Section 12000 Hazard Communication, Section 145 Signs and Tags, and Section 2 Access to Employee Exposure and Medical Records (if required).
- C. National Institute for Occupational Safety and Health (NIOSH): Respiratory Protection, A Guide for the Employee.
- D. American National Air Standards Institute (ANSI): Z86.1-1973, Commodity Specification for Air.
- E. Commercial Laboratories with Polarized Light Microscopy Capabilities for bulk asbestos identification.
- F. A Guide to Respiratory Protection for the Asbestos Abatement Industry. EPA-560-OPTS-86-001.
- G. Environmental Protection Agency (EPA): EPA 402-K-01-001 Mold Remediation in Schools and Commercial Buildings, Including Resources and References List; and Investigating Evaluating and Remediation Moisture and Mold Problems, Table 1 and Table 2, Appendices A, B, & C, Publication # 402-K-01-001 (March 2001).
- H. U.S. Department of Labor, Occupational Safety and Health Administration (OSHA) Publication: Molds and Fungi.
- I. Standard and Reference Guide for Professional Water Damage Restoration, (IICRC S500), Institute of Inspection, Cleaning and Restoration Certification Standard.
- J. National Institute for Occupational Safety and Health (NIOSH): Respiratory Protection, A Guide for the Employee.
- K. ACR 2002, Assessment, Cleaning and Restoration of HVAC Systems, National Air Duct Cleaners Association.

- L. State of Louisiana, ACT 880, Louisiana Mold Licensing
- M. American National Standards Institute (ANSI): Z86.1-1973, Commodity Specification for Air.

1.12 NOTIFICATIONS, PERMITS, AND LABELS:

- A. The Contractor shall provide the required written pre-notification to LADEQ, EPA and any other regional, state, and local authority having jurisdiction on the project.
- B. The Contractor shall erect OSHA-specified warning signs around the work areas at every point of potential entry from the outside, including the entrance to the Decontamination Facility's Clean Room. The warning signs shall be a bright color so that they shall be noticed easily. The size of the sign and its lettering shall be no less than OSHA requirements.
- C. The Contractor shall post warning signs around the work space at every point of potential entry from the outside, including the entrance to the Decontamination Facility's Clean Room (if required). The signs shall comply with 29 CFR 1926.1101 and 29 CFR 1915.1001 and with State and local regulations.
- D. The Contractor shall also provide OSHA, NESHAP, and DOT-required labels (as required) for all plastic bags and drums utilized to transport contaminated material from the work areas to the disposal landfill.

1.13 LICENSES:

- A. For all projects over \$50,000 (\$1.00 or more for hazardous materials), the Contractor shall certify that he is licensed under the provisions of LA R.S. 37:2150 through 37:2192 and state his license number on the proposal.

1.14 SUBMITTALS:

The Contractor shall furnish three (3) copies of the following items clearly labeled and identified as stated:

- A. Submittal No. 01: Copies of written pre-notification forms filed with the Louisiana DEQ, Fire Department, USEPA Region 6, OSHA, and any other required agencies (as required).
- B. Submittal No. 02: Signed documentation of asbestos abatement training and education for all proposed workers, including respirator use, training certification, copies of OSHA-specified medical exams, copies of biological monitoring results, and respirator approval certification.
- C. Submittal No. 03: A copy of the Contractor's State of Louisiana, Department of

Industrial Relations, Division of Occupational Safety and Health, Certificate of Registration for Asbestos Related Work, and a copy of Contractor's Certification issued by the Contractor's State Licensing Board; copies of any other permits, licenses, manifests, or patents which are required or will be used.

- D. Submittal No. 04: Names and qualifications of proposed waste hauler, testing laboratory, and copies of their applicable licenses, including State of Louisiana registration number for hauling waste; proposed sites for disposal of materials and letter from the sites authorizing haulers to dispose there.
- E. Submittal No. 5: Names, addresses, and telephone numbers, and accreditations of each Air Monitoring Firm and environmental laboratory which will analyze Contractor's OSHA compliance personnel air samples, dialing monitoring and Clearance Sampling.

1.15 SUBMITTALS DURING THE WORK: Submit three (3) copies of the following items to the Environmental Consultant:

- A. Security and safety logs, showing names of any persons entering the work area, date and time of entry and exit. Record any accident, emergency evacuation, and any other safety health incident. If requested, these logs shall be provided to the Environmental Consultant on a daily basis.
- B. Waste disposal certificates, (including bills of lading) and weight tickets. Copies (reproductions) shall be submitted on a weekly basis, with completed original certificates submitted upon receipt from the landfill.
- C. Third Party Monitoring and clearance reports, OSHA-compliance personnel air monitoring results, as conducted by the Contractor.
- D. Re-notifications to required agencies, if there are schedule changes.
- E. The Submittals described within paragraphs 1.14 and 1.15 shall be submitted to the Owners Representative within three (3) weeks from the date of field completion of the Work.

1.16 STOP WORK:

If the Designer presents a written stop work order the Contractor shall immediately stop all work. Do not recommence work until authorized in writing by Designer.

Standby time and testing costs required to resolve violations shall be at the Contractor's expense. Stop Work Orders may be issued for, but shall not be limited to the following:

- A. Failure to apply properly and continuously specified removal work procedures.
- B. Failure to maintain specified work area isolation, sealing, and protective systems.

- C. Failure to apply sufficient amended water before, during, and after removal and cleanup of asbestos-containing or mold-containing materials, including the packaging of waste and demolition materials.
- D. Loss of specified differential pressures and/or adequate flow of air through the Decontamination Facility (if required).
- E. Failure to use proper respiratory protection equipment (as required).
- F. Failure to maintain any required records or to conduct OSHA-required personal exposure monitoring tests and/or make results promptly available to the Environmental Consultant.
- G. Work stoppage as a result of a lack of phasing coordination.

1.17 ASBESTOS-CONTAINING MATERIALS: Asbestos-containing materials are known to be present at the work site. The Contractor is responsible for the safe removal of these materials:

Ceiling Texture	2% Chrysotile
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1.18 CONTRACTORS USE OF PREMISES:

General: The Contractor shall limit his use of the premises to the work indicated, so as to allow for Owner occupancy and use by the public.

- A. Confine operations at the site to the areas permitted under the Contract. Portions of the site beyond areas on which work is indicated are not to be disturbed. Conform to site rules and regulations affecting the work while engaged in project construction. No material or vehicle shall be stored within ten (10) feet of the drip line of any Live Oak Tree.
- B. Keep existing driveways and entrances serving the premises clear and available to Owner and his employees at all times. Do not use these areas for parking or storage sheds to the areas for parking or storage of materials.
- C. Do not unreasonably encumber the site with materials or equipment. Confine stockpiling of materials and location of storage sheds to the areas indicated. If additional storage is necessary obtain and pay for such storage off site.
- D. Lock automotive type vehicles, such as passenger cars and trucks and other mechanized or motorized construction equipment, when parked and unattended, so as to prevent unauthorized use. Do not leave such vehicles or equipment unattended with the motor running or ignition key in place or accessible to unauthorized persons.

1.19 CONTRACTORS TEMPORARY FACILITIES:

The Contractor shall maintain temporary facilities necessary to perform the Work. And make all precautions necessary to protect the existing Site during the construction period.

- A. Keep Site free from accumulation of waste, rubbish or construction debris.
- B. Smoking or open fires will not be permitted within the building enclosure or on the premises.
- C. Contractor shall supply temporary toilets for his personnel and Site visitors.

1.20 OWNER OCCUPANCY:

The building will be occupied during the Work and the Contractor shall cooperate fully with the Owner or his representative during construction operations to minimize conflicts and to facilitate Owner usage. Perform the work so as not to interfere with the Owner's operation and renovation work.

**END OF SECTION 01 10 00**

**SECTION 02 82 10 - REMOVAL OF ASBESTOS-CONTAINING MATERIALS**

**PART 1.0 - GENERAL**

1.1 DESCRIPTION OF WORK:

- A. The work specified within this section includes the removal of asbestos-containing materials described herein. The Contractor shall utilize only trained and qualified workers in the removal, handling, and disposal of these materials. Contractor's work practices and methods shall comply with all applicable Federal, State, and local regulations.
- B. The Contractor shall furnish all labor, materials, equipment, medical records, testing, insurance, patents, and incidentals, which are necessary or required to complete the work safely.
- C. The Scope of Work includes the safe removal and disposal of the Floor tile and Mastic Materials, HVAC Vibration Damper Materials, HVAC Red Sealant Caulking, Black Piping and Equipment TSI Wrap and Window Frame Caulking Materials and record keeping in accordance with Federal and State regulations.
- D. The Contractor shall coordinate with the Third Party Air Monitoring and Inspection Firm (Owner's Representative), for the duration of the Work.

1.2 APPLICABLE PUBLICATIONS: The publications listed below form a part of this specification to the extent referenced. The publications are referenced in text by basic designation only. The latest publication shall apply.

- A. Environmental Protection Agency (EPA):  
  
Regulations for Asbestos (Code of Federal Regulations, Title 40, Part 61), National Emission Standard for Hazardous Air Pollutants (NESHAP), Guidance for Controlling Friable Asbestos Containing Materials in Buildings, Asbestos Hazard Emergency Response Act (AHERA) (40 CFR, Part 763).
- B. Occupational Safety and Health Administration (OSHA): Asbestos Regulations (Code of Federal Regulations Title 29, Part 1901, Sections 1915.1001 and 1926.1101), 1910 Section 1200 Hazard Communication, Section 145 Signs and Tags, and Section 2 Access to Employee Exposure and Medical Records.
- C. National Institute for Occupational Safety and Health (NIOSH): Respiratory Protection, A Guide for the Employee.
- D. American National Standards Institute (ANSI): Z86.1-1973, Commodity Specification for Air.
- E. Louisiana Administrative Codes (LAC), Title 33, Part III, Chapters 27 and 51, and Louisiana Department of Environmental Quality (LADEQ) and Louisiana Emissions Standard for Hazardous Air Pollutants (LESHAP).

1.3 DEFINITIONS:

- A. Refer to Section 01 10 00 for terms and definitions used in these Contract Documents.

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1.4 SUBMITTALS:

- A. Refer to Section 01 10 00 for Contractor submittal requirements.

1.5 RESPIRATORY AND PERSONNEL PROTECTION AND DECONTAMINATION:

- A. Refer to this Section for Contractor respiratory and personnel protection and decontamination requirements.

1.6 WASTE DISPOSAL:

- A. Refer to Sections 02 82 40, 02 84 33, 02 85 00 and 02 88 20 for Contractor waste disposal requirements.

**PART 2.0 – PRODUCTS**

The Contractor shall note that where no manufacturer or model number are given, any product meeting performance or design criteria, or referenced trade association standard may be used and Pre-Bid Approval is not required.

2.1 GENERAL REQUIREMENTS:

- A. The Contractor shall deliver all materials to the site in the original containers bearing the name of the manufacturer and details for proper storage and usage.
- B. All materials or equipment delivered to the site shall be unloaded, temporarily stored, and transferred to the Work Area in a manner, which shall not interfere with operations of the building occupants.
- C. The unloading and temporary storage sites, and transfer routes, must be approved in advance by the Designer.
- D. Damaged or deteriorated materials may not be used and must be promptly removed from the premises. Material which becomes contaminated with asbestos-containing material shall be packaged and legally disposed of in an approved landfill.
- E. Techniques, procedures, and equipment required by these specifications may be covered by one or more U.S. and/or foreign patents. It is the sole responsibility of the Contractor to determine what, if any, patents are applicable and to meet the requirements of the patent owner, including fees regarding the use of these patents.

2.2 MATERIALS, TOOLS, AND EQUIPMENT:

- A. All materials, tools, and equipment must comply at a minimum, with these specifications, and relevant Federal, State, and local codes. For the construction of containment barriers, work platforms, and Decontamination Facilities, all lumber and plywood shall be fire-retardant. Flame-resistant polyethylene film shall conform to requirements set forth in the National Fire Protection Association, shall be fire-retardant, and shall bear manufacturer's stamp of Underwriters Laboratory (UL) Classification.

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Any equipment used that prevents the analysis of air samples by Phase Contrast Microscopy will be unacceptable and will not be allowed to be used.

1. HEPA-Filtered Exhausts - Air inside each work area shall be exhausted to the atmosphere (building exterior) through a High Efficiency Particulate Air (HEPA) filter. HEPA-filtered portable exhaust units shall be provided for each work area, of sufficient total capacity to provide at least six (6) complete air changes per hour, an inward velocity through all openings to the work area of at least 200ppm, and a static pressure of at least 0.025 inches water column.

The HEPA filter shall be preceded by replaceable pre-filters, and the unit must be designed such that it cannot be operated unless the HEPA filters are in place. The units must also be designed with lights or alarms, which indicate that the filters are properly installed and functional, and which determine when the filters must be changed.

Flexible hoses (ducts) of sufficient length must be provided to allow the units to discharge outside of the buildings. Exhausts with other types of particulate cleaning systems (such as electrostatic precipitators) shall not be allowed.

2. Plastic Sheeting and Bags - These shall be polyethylene or equivalent. Both transparent and opaque plastic shall be required, as specified within the contract documents. Flame-resistant polyethylene shall be used.

3. Encapsulates - Encapsulating or lock-down agents shall be penetrating sealants. Due to subsequent renovation plans, the Contractor shall lock-down all surfaces with a water-based and water-soluble encapsulate pre-approved by the Designer. The water-based, water-soluble encapsulate shall be able to do following:

- a. Withstand most impact or abrasion and protect the encapsulated surface.
- b. Be one of those demonstrating effective performance under the tests conducted by an independent testing laboratory, pre-approved by the Owner's Representative.
- c. Shall have high flame-retardant characteristics less than 25 when tested in accordance with ASTM E-84 procedures, and a low toxic fume and smoke emission rating.
- d. Shall not be noxious or toxic to application workers, or subsequent users of the building.
- e. Shall have some permeability to water vapor to prevent condensation accumulation and shall resist solution by common cleaning agents.
- f. Shall have acceptable weathering and aging characteristics.

It is the Contractor's responsibility to ensure that encapsulates will be compatible with all replacement materials (if required). The Contractor shall coordinate this requirement with the Designer.

4. Wetting Agent or Surfactant – This item shall be 50% polyoxyethylene ether and 50% polyoxyethylene ester, or equivalent, mixed in the proportion of one ounce surfactant

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per five gallons of water. The material must be odorless, non-flammable, non-toxic, non-irritating, and non-carcinogenic. It shall be applied using a low-pressure sprayer recommended by the surfactant manufacturer.

5. Tape and Glue - These items shall be capable of sealing plastic joints, and attaching plastic to finished surfaces without damages when they are removed. The bonding strength and resulting seal integrity must not be affected by mist of water, encapsulating agent, or any other materials to be used in the Work Area.
6. Warning Signs and Labels - These items shall comply with 29 CFR 1926.1101 (K), and with all other federal, state, or local codes and regulations.
7. Waste Containers and Transportation - These items shall be bags as noted in Subparagraph 2 above, drums or other closed containers, suitable for loading, temporary storage, transit, and unloading of contaminated waste without rupture or otherwise causing spillage or exposure to persons or emissions to the atmosphere. Transportation methods shall comply with the provisions of EPA Title 40, Part 61, Subparts A and B, Part 262, and with any hazardous or special waste regulations for temporary storage, transport, and disposal if such codes are enforced in states or cities where the waste will be generated, stored, transported or disposed of. All containers shall be labeled in accordance with 29 CFR 1926.58K(2) and 49 CFR, Parts 171 and 172, Hazardous Substances: Final Rule.
8. Respiratory Protection Devices - These items shall be NIOSH-approved, and shall comply with all provisions of 29 CFR 1926.1101. Fit testing procedures must comply with 29 CFR 1926.1101, Appendix C. Provide documentation of fit-testing procedure.
9. Electrical Equipment – All electrical items shall be Underwriters Laboratory listed and approved, and shall have ground fault circuit interrupt protection, which has been installed by a qualified electrician.
10. Ladders or Scaffolds - These items shall be approved, and be of sufficient dimensions and quantities so that all work surfaces can be easily and safely accessed by the Owner's Representative, workers, and other inspectors. Scaffold joints and ends shall be sealed with tape to prevent incursion of asbestos fibers or particulate. The use of aluminum ladders inside the work area is prohibited.
11. Hand Power Tools - These items shall be equipped with HEPA-filtered local exhaust ventilation if used to drill out, into, or otherwise disturb ACM.
12. Brushes - All brushes shall have nylon bristles. Wire brushes are excluded from use due to their potential to shred asbestos fibers into small fibers. Wire brushes may be used on pipe joint applications upon prior written approval by the Designer.

### 2.3 USE OF EXISTING EQUIPMENT

The Contractor is responsible for the maintenance and repair of all existing equipment, which he, or anything associated with his work, damages, impacts, or otherwise disturbs. All existing equipment must be returned to the Owner in its original state. Any repair of equipment to return it to its original state is the sole responsibility of the Contractor. All costs associated with testing, inspection, maintenance, and repair must be borne by the Contractor.

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- A. Electricity: The Contractor is responsible for providing his own electricity to the Work Area. Power is not available at the Site. All costs associated with testing, inspection, coordination, provision, and total usage of electricity are the responsibility of the Contractor. Contractor shall clean and protect the existing power panels used to obtain power for this project.
- B. Water: The Contractor is responsible for providing water to the Site. Water is not available and all costs associated with testing, inspection, coordination, provision, and total usage of water are the sole responsibility of the Contractor.

**PART 3.0 - EXECUTION**

3.1 GENERAL:

- A. The requirements and sequences described herein are parameters for execution of the abatement work and do not include necessarily all abatement requirements. The Contractor shall be responsible for all items that may be necessary to complete the abatement work in accord with the approved Work Plan, Scope of Work, and all applicable regulations. All deviations from the Work Plan must be pre-approved in writing by the Designer.
- B. All building interior removal work shall be performed using full containment, protection with HEPA-filtered exhaust ventilation, and decontamination facilities.

3.2 PREABATEMENT PREPARATIONS: The Contractor shall prepare the work areas using plans pre-approved by the Owner's Representative and Designer. Following is a general sequence of performance steps and procedures to ensure that proper containment and protection systems are installed prior to any work, which could generate airborne asbestos fibers or particulate.

- A. Post access restriction signs; seal all openings into each work area; clean, decontaminate, protect, and cover all fixed items; and erect or install containment barriers, scaffolding, and decontamination facilities and HEPA-exhaust systems as described herein.
- B. The Contractor shall be responsible for providing his own water and electricity to each the work area. Utility connections and meters are available in the building for the Contractor's use. The Contractor is responsible for coordinating provision of utilities to the job site directly with the utility agencies. Provision of utilities to the job site must be borne by the Contractor.
- C. Provide temporary power and lighting equipped with ground fault interrupter (GFI) devices are required for the each work area and affected non-work areas.
- D. Obtain Owner's Representative's approval, in writing, of all completed preparation work.

3.3 ISOLATION OF ELECTRICAL SYSTEMS AND INSTALLATION OF TEMPORARY POWER AND LIGHTING:

- A. The scope of the required electrical isolation and protection work includes isolation and protection of electrical equipment, which is in the area from which asbestos must be removed, and which could possibly become a hazard through contact or water spray short-circuiting. Care must be taken when working near electrical panels. The Contractor shall provide labor to monitor, inspect, and service temporary power circuits, lighting, and equipment as required by

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local codes and regulations. Contractor must provide "Lock Out" systems on all electrical panels or equipment, which will be shutoff during the removal process. If electrical panels, transformers, or control centers cannot be deactivated/de-energized, the Contractor shall ensure that these electrical panels, transformers, control centers, or fire protection panels are isolated utilizing rigid critical barriers, fire retardant 6-mil polyethylene sheeting, and ventilated as required.

- B. The electrical isolation work includes the installation of temporary lighting and power protected by ground fault interrupter (GFI) devices in accord with applicable codes.
- C. Temporary light shall be provided by the Contractor in the each Work Areas where abatement is performed. A qualified electrician shall initially inspect the (removal work areas) for the condition of electrical conduit and junction boxes. All temporary electrical work shall comply with NFPA 70 National Electric Code. The purpose of this inspection is to assist the Contractor in the preparation and performance of his work, and to provide for the safety of work crews.
- D. The Contractor shall be required to furnish, without additional expense, all transportation, labor, and materials necessary to maintain the electrical systems for safe operation, and to maintain service in areas abutting work area in compliance with local codes.
- E. All materials and workmanship shall conform with the latest editions of the following codes, standards, and specifications issued by the following authorities:
  - 1. National Electrical Code (NEC) - most recent edition.
  - 2. National Bureau of Standards, Handbook H30, National Electrical Safety Code.
  - 3. State and Local Codes, and all other authorities having jurisdiction.
  - 4. Underwriter Laboratories (UL).
  - 5. National Board of Fire Underwriters.
  - 6. Occupational Safety and Health Administration (OSHA).
- F. Temporary lighting and power systems shall comply with all Federal, State, and local regulations. Temporary lighting levels shall meet these requirements.
- G. When switching circuits at panels, the Contractor's licensed electrician shall review the existing conditions. The Contractor shall not shutdown any circuits without the advanced notification and approval.
- H. Contractor costs associated with the isolation of electrical systems and installation of temporary power and lighting shall be borne by the Contractor.
- I. Extension cords shall be the 3-wire type; shall be protected from damage; and shall not be fastened with staples, hung from nails, or suspended from wires. Splices shall have soldered wire connection with insulation equal to the cable. Worn or frayed cords shall not be used.
- J. Safe lighting equipment shall be provided with a preference for floodlights rather than indiscriminate use of unprotected lamps strung on temporary wiring. Exposed bulbs shall be guarded to prevent accidental contact. Temporary wiring shall be properly insulated and

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substantially supported. Circuits shall be properly designed and fused. All temporary lighting inside the work area shall be weather proofed.

- K. Receptacles for attachment plugs shall be an approved, concealed contact type. Where different voltages, frequencies, or types of current are supplied, receptacles shall be of such design that attachment plugs are not interchangeable.

3.4 INSTALLATION OF SCAFFOLDING AND/OR WORK PLATFORMS:

- A. The Contractor shall install and erect sufficient scaffolding and/or work platforms to access all areas and complete all tasks involved in the abatement activities.
- B. Installation and erection of scaffolding and/or work platforms must be done in strict compliance with all applicable Federal, State, and local laws and regulations.
- C. The Contractor is responsible for removing any loose or hanging materials and installing adequate shoring so as to provide and maintain a safe work environment.
- D. The Contractor must maintain public access to city sidewalks, as required by law, throughout the entire abatement project. The Contractor is responsible for obtaining necessary permits involved in erecting scaffolding and/or fencing on public property. The Contractor will be responsible for repairing all damages caused by scaffolding or fencing during abatement.

3.5 ISOLATION OF WORK AREAS AND INSTALLATION OF DECONTAMINATION FACILITIES:

- A. The Contractor shall isolate the Work Area for the duration of the work by completely closing and sealing all openings and penetrations into the Work Area using a minimum two (2) layers of 6-mil polyethylene sheeting, with joints staggered, and taped securely in place. The work area shall be sealed airtight and watertight to the maximum extent possible, and shall be subject to the written approval of the Owner's Representative.
- B. Isolation Partitions and Barriers
  - 1. The Contractor shall install scaffolding and/or work platforms and necessary shoring to provide worker access and install approved safety railings, the plates, etc.
  - 2. The Contractor shall install critical barrier walls using 2"x 4" stud or metal framing 24" on center, adequately supported and anchored, covered with 5/8" (fire rated) sheet packs, all seams caulked airtight. All temporary enclosures and walls shall have a flame spread of 0-200 and a smoke developed of 0-450.
- C. The Contractor shall install decontamination facilities for all work areas as defined herein, using plans pre-approved by the Owner's Representative.
- D. The Contractor shall cover critical barriers, scaffold planks, and work platforms with a minimum two (2) layers of 6-mil polyethylene sheeting with joints staggered and taped securely in place.
- E. The Contractor shall line both sides of walls, ceilings, and floors of decontamination facilities using a minimum two (2) layers of 6-mil polyethylene sheeting with joints staggered and taped securely in place.

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- F. The Contractor shall provide GFI-protected temporary power and lighting to work areas and ensure safe installation of temporary power sources and equipment.
- G. The Contractor shall install HEPA-filtered exhaust systems and automatic air pressure differential recording instruments in work areas as previously specified using plans pre-approved by the Designer.
- H. The Contractor shall install wastewater collection, filtration, storage, and discharge systems, and install waste holding facilities.
- I. The Contractor shall post warning signs meeting the requirements of 29 CFR 1926.1101 and post hazard warning signs at the doorway to the decontamination facility which shall be the only non-emergency entrance into the work areas. Post warning signs at all other potential access locations as indicated by the Owner's Representative.
- J. The Contractor shall cover and protect electric panels and fixed equipment and objects.
- K. The Contractor shall clean and decontaminate all surfaces inside work area. Seal all openings and penetrations into work area.
- L. Before commencing work within the Work Area the Contractor shall inspect the work enclosure for breaches and smoke test for leaks, and any leaks shall be sealed properly.
- M. The Contractor shall maintain emergency exits as required by regulating agencies for all work areas and mark with reflective tape or paint.

3.6 APPROVAL OF PREPARATION WORK:

After the work areas has been prepared according to plans pre-approved by the Owner's Representative, the Contractor shall request a formal site inspection by the Owner's Representative. No removal or other disturbance of asbestos-containing materials, dust, or debris shall occur until the Owner's Representative has inspected and approved the site preparation work in writing.

3.7 CLEANING OF CONTAMINATED SURFACES:

- A. This section pertains to the cleaning of surfaces, which are potentially contaminated with asbestos-containing dust and debris, or discovered in the performance of the specified work. Such cleaning shall be required to prevent this dust from becoming airborne and posing an exposure risk to building occupants or interfering in air monitoring activities.

Cleaning actions shall be performed as preliminary exposure control procedures prior to performing other actions which are required.

Cleaning shall consist of HEPA-vacuuming followed by wet mopping of surfaces in a manner, which prevents dust generation, but effectively rids the surface of all visible debris, dust, film, and grime.

- B. Each HEPA-vacuum cleaner shall be separately equipped with an airtight, securely attached hose, of proper length, and a collection wand, brush, and other special attachments appropriate to the required cleaning tasks. The equipment shall be properly operated at all times and shall contain

no air leaks. The Owner's Representative shall inspect all vacuuming equipment prior to its use, and may request verification of the efficiency of the equipment's filtration.

3.8 REMOVAL PROCEDURES:

This section applies to removal of any and all materials containing contaminated or potentially contaminated with asbestos, as stated herein or as otherwise indicated by the Owner's Representative. All removal work shall be done using wet methods in such a way as to minimize the release of fibers, dust, or particulate into the air. All removal methods must be in accord with all Federal, State and local regulations and these specifications.

The Contractor is responsible for thoroughly cleaning one or more representative area(s) inside each contained area to the satisfaction of the Owner's Representative to be used by the Owner's Representative to establish a standard of cleanliness. Completion of removal stages must be approved by the Owner's Representative in writing.

The Contractor is responsible for protecting all previously cleaned and cleared areas throughout all abatement processes. The Contractor will clean and decontaminate all previously cleaned and cleared areas, which become contaminated during subsequent removal activities.

A. Removal of Ceiling Texture. Tape and Mud:

1. The Contractor is responsible for the removal and disposal of the Ceiling Texture, tape and mud. Remove to bare substrate.
2. The Contractor shall continually and thoroughly wet material.
3. The Contractor shall carefully remove materials from substrate, using hand-held or other suitable tools or equipment.
4. The Contractor shall promptly place materials in 6-mil polyethylene or other suitable bags or containers. Accumulation of debris inside the work area is prohibited.
5. The Contractor shall collect and pump all waste water through a five (5) micron filter (multi-staged filtration system).
6. The Contractor shall dispose of all material in accordance with Section 02 08 40.
7. The Contractor shall remove to clean substrate surface. Removal is complete only when clean surfaces remain.

3.9 MATERIALS WHICH OWNER'S REPRESENTATIVE CLASSIFIES AS INACCESSIBLE FOR REMOVAL:

- A. The Contractor shall remove all specific materials unless he identifies to the Owner's Representative potentially inaccessible areas, and the Owner's Representative then so concurs and thereby classifies them as inaccessible. The Owner's Representative, however, may determine that materials can be made accessible by temporarily disconnecting and moving obstructing ductwork, cables, studding, plaster, pipes, conduits, or other mounted equipment and structures, in which case the Contractor shall remove and replace them at no additional cost.
- B. All areas that the Owner's Representative classifies as inaccessible shall be sealed and enclosed by the Contractor at no additional cost as follows:

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1. Seal all visible asbestos-containing materials with two (2) coats of approved penetrating spray encapsulants.
2. Create an airtight enclosure around the area by installing sheet metal or wire lath secured with clamps or screws, and seal airtight with caulking.
3. Mark all such sealed inaccessible asbestos-containing materials on a set of Drawings and transmit to the Owner's Representative.

3.10 OWNER'S REPRESENTATIVE'S APPROVAL OF REMOVAL WORK:

- A. Upon completion of removal work, but prior to commencing encapsulation or other final cleaning of the work area, the Contractor shall request the Owner's Representative to conduct an inspection and obtain written approval of the removal work.
- B. All materials shall be removed, gross debris cleaned up, wastewater collected and filtered, and waste bags removed from the Work Areas prior to the inspection.
- C. Any encapsulation or lock-down performed prior to the Owner's Representative's approval will require the Contractor to re-clean the entire work area to the satisfaction of the Owner's Representative.

3.11 CLEANING AND FINAL DECONTAMINATION:

This section applies to cleaning work areas where asbestos removal work has been performed. After all asbestos-containing or contaminated materials have been removed the Contractor shall remove all wastes and perform a thorough multi-stage final cleanup and decontamination of each work area per the methods indicated below. Completion of this stage of work must be approved by the Owner's Representative.

- A. Final clearance procedures of the work areas shall be performed only after all waste is packaged and removed, but prior to reinstalling any equipment or dismantling any barrier, decontamination facility, or protective coverings. Cleaning shall be subject to the Owner's Representative's approval based on visual inspections, surface dust-wipe tests, and air testing performed according to the AHERA standard. HEPA-exhaust systems shall operate continuously throughout the cleaning and air testing processes until the Owner's Representative authorizes their shutdown and removal from the site. The Contractor shall notify the Owner's Representative in writing at least 24 hours in advance of the expected completion time of final site clearance in order to allow the scheduling of clearance testing.
- B. Cleaning methods and approvals shall consist of the following steps performed in the listed order:
  1. Remove all visible debris and particulate from protective coverings, scaffolding, floors, walls equipment, and all other surfaces. HEPA-vacuum all surfaces to pick up excess water and debris.
  2. Thoroughly clean all protective coverings, scaffolding, floors, walls, and equipment.
  3. The air in each work area shall then be lightly misted with amended water, and all protective coverings and other items in the work area shall be wiped thoroughly clean.

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4. After the Contractor has completed steps 1-3, he shall make a formal request to the Owner's Representative for a work area inspection. To facilitate scheduling of this inspection, the Contractor shall notify the Owner's Representative of the anticipated completion time of the above initial cleaning work 24 hours in advance.
5. If the Owner's Representative observes any waste or debris in the work area during the inspection, the Contractor shall perform additional cleaning and decontamination as directed by the Owner's Representative.
6. If the Owner's Representative approves this first cleaning, the Contractor shall remove slowly one layer of protective polyethylene covering surfaces inside the work area (except as indicated below) and shall package them in 6-mil waste bags. The waste bags shall be removed from the work area. Both layers of protective polyethylene in the decontamination facilities shall remain in place and in use.
7. After these protective coverings are removed, the Work Area shall be completely wet wiped and HEPA-vacuumed.
8. Once the work area is completely dry, the Owner's Representative will perform an inspection of the Work Area.
9. Upon obtaining the Owner's Representative's written approval, the Contractor shall lock-down all surfaces within the Work Area. The Contractor may only lock-down surfaces using an encapsulant pre-approved by the Owner's Representative. Drying time shall be as specified by the manufacturer before clearance sampling is conducted.
10. If any of the post-cleaning clearance air or wipe sample results are above the pre-established clearance criteria, the Owner's Representative will require additional cleaning and decontamination of the work area, and the above inspection and clearance tests shall be repeated by the Owner's Representative.
11. After successful completion of the final air clearance testing, the Contractor shall carefully remove the protective coverings, decontamination facilities, and any temporary barrier walls or tunnels. The HEPA-exhaust systems shall be removed only after all other items are removed. A HEPA vacuum shall be kept on-site during this final disassembly work to cleanup any dust or debris.
12. Workers shall wear approved respiratory and personal protective equipment throughout all cleanup and waste disposal activities.

3.12 MONITORING AND TESTING: The performance and execution of this work is found in this Section, Air Monitoring - Test Laboratory Services.

3.13 AIR MONITORING BY CONTRACTOR:

- A. The Contractor shall be responsible for personnel air monitoring to document compliance of workers with the OSHA regulations using the methods as described in this Section, Air Monitoring - Test Laboratory Services.

3.14 FINAL INSPECTION AND TESTING:

- A. Following successful completion of the final visual inspection, the Contractor will be given written approval by the Owner's Representative to lock-down each Work Area. When this is complete and after all visible dirt, dust, and grime has been removed from all surfaces in each Work Area, the Contractor shall notify the Owner's Representative that the work space is ready for inspection and final air clearance testing. The Owner's Representative, with the assistance of the Contractor, then shall visually inspect the workspace for the detection of any visible dust or contamination. If the visual inspection does not reveal any dust or other signs of contamination, final air testing shall commence. Approval of each Work Area for final air testing shall be obtained from Owner's Representative in writing. The Contractor shall supply adequate lighting, scaffolding, ladders, and other necessary assistance during final visual inspection.
- B. Final air testing of the building interior will be conducted at the completion of each phase of work. The Contractor shall install engineering controls and barriers so as to isolate each area for final air clearance testing. Isolation barriers and access routes must be pre-approved in the Work Plan by the Owner's Representative.
- C. Final air testing (i.e., clean air certification) shall be performed pursuant to 40 CFR, Part 763, Appendix A, using Transmission Electron Microscopy (TEM), aggressive disturbance procedures, and continuous air circulation and HEPA-filtered exhaust. This shall be obtained by use of 1-horsepower leaf blowers (provided by Contractor) and the existing work area exhaust system, supplemented with 20-inch circulating fans (provided by Contractor and positioned where the Owner's Representative determines with smoke tubes that poor air circulation patterns exist). Work areas with less than 160 square feet or 260 Linear feet of asbestos-removal shall be considered complete following the passage of the visual inspection and final air testing via Phase Contrast Microscopy (PCM).
- D. The Contractor shall assist as necessary, the Owner's Representative to accomplish safely and efficiently the aggressive disturbance and air circulation tasks. The Contractor also shall provide and install sufficient 15-amp, 120 v. (60-cyl) power lines for the Owner's Representative's air pumps evenly distributed in the work area, plus air pumps evenly distributed outside the work area. The Owner's Representative then shall collect all air clearance samples.
- E. The Contractor shall allow 24 hours for performance of aggressive disturbance procedures and collection of clearance air samples, and an additional 24 hours for laboratory TEM analyses of samples. Provisions will be made to perform PCM analysis on-site. The Contractor shall coordinate with the Owner's Representative to properly schedule clearance sampling and laboratory analysis.
- F. The aggressive disturbance procedures shall not commence until the Work Area is clean, all floor and wall polyethylene sheeting is removed, with all of the critical barriers in place, the lock down agent is completely dry, and the Work Area has been inspected and approved by the Owner's Representative.
- G. The final air testing shall take place under active agitation of the air in the work space with the HEPA-filtered exhaust units operating. The Contractor shall also supply and operate additional circulating fans and leaf blowers as required and directed by the Owner's Representative during this final testing to ensure effective air circulation. The final test shall consist of collecting a minimum of thirteen (13) air samples for each testing to establish that contamination levels do not exceed 0.01 fibers per cubic centimeter (f/cc) and 70 structures per millimeter squared

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(s/mm<sup>2</sup>) of asbestos as determined by air sampling with analysis by Transmission Electron Microscopy.

- H. If all clearance criteria are not met, the Contractor shall perform a thorough wet cleaning and/or HEPA-vacuuming as necessary and directed by the Owner's Representative to re-clean the work areas. The above clearance testing shall then be repeated by the Owner's Representative until clearance criteria are met. The Owner's Representative's charges to the Owner for this additional cleaning, inspection and air testing services shall be borne by the Contractor.
- I. After achieving the level of cleanliness and decontamination as specified herein and as confirmed by the final testing and checking, the Owner's Representative shall thoroughly inspect the space jointly with the Contractor to determine whether any damage has been done to the finishes, equipment, or any other part of the work space.

A final inspection report shall be prepared jointly by the Owner's Representative and the Contractor detailing the list of items (punch list) to be fixed by the Contractor. Approval of final testing, checking, and ultimate completion shall be obtained from the Owner's Representative in writing.

3.15 RESPONSIBILITY FOR DAMAGES:

Any damages to the Site, items designated to remain, or adjacent property damage and disruption of operations of adjacent buildings and building occupants and uninvolved Site improvements, parking and drainage, that have been the result of actions by the Contractor's personnel or equipment or subcontractors shall be repaired to safe working condition without any cost to the Owner.

**END OF SECTION 02 82 10**

**SECTION 02 82 40 – DISPOSAL OF ASBESTOS-CONTAINING MATERIALS**

**PART 1.0 - GENERAL**

**1.1 ASBESTOS WASTE DISPOSAL PROCEDURES:**

- A. It is the responsibility of the Contractor to determine current waste handling, transportation, and disposal regulations for the work site and for each waste disposal landfill. The Contractor must comply fully with these regulations and all Department of Transportation and EPA requirements, and State and local regulations.
- B. The Contractor shall document actual disposal of the asbestos waste at the designated landfill certified by the State of Louisiana Department of Environmental Quality to accept asbestos waste. The Contractor shall document disposal by completing a written Disposal Form (Asbestos Disposal Verification Form - ADVF, Waste Shipment Record) which then shall be signed by the landfill operator upon receipt of materials. The original completed documentation shall be forwarded to the Owner's Representative. Approval of Contractor payment requests may be denied until receipt of such Disposal Certificates.
- C. Definition: Asbestos wastes are defined as all asbestos-containing or potentially asbestos-contaminated materials or other items which have not been cleaned completely to the satisfaction of the Owner's Representative while inside the Work Area, and which must be removed from the job site. Asbestos wastes may include building materials, insulation, disposable clothing and protective equipment, plastic sheeting and tape, contractor equipment, or other materials designated by State or local authorities or the Owner's Representative. Any and all materials, clothing, equipment, supplies, exhaust systems or vacuum filters, plastic sheeting and tape, and other materials designated by State or local authorities which potentially may be contaminated with asbestos, asbestos dust, or asbestos particulate must be disposed of as asbestos-containing or asbestos-contaminated wastes.
- D. Asbestos Waste Container Removal and Disposal Procedures:
  - 1. The costs for waste packaging, transportation, and approved landfill disposal (plus all related record keeping) shall be borne by the Contractor.
  - 2. The Contractor shall package, label, and remove all asbestos waste as specified in the above Sections. Packaging shall be accomplished in a manner that minimizes waste volume, but insures waste containers shall not tear or break.
  - 3. The Owner's Representative must observe removal of all waste containers to verify their condition and certify the total volume of waste material (to the nearest cubic yard). He then shall insert the quantity on the Disposal Form/Waste Shipment Record and give the original of these forms to the Contractor for transport to the landfill operator for signature.

**1.2 WASTE REMOVAL SCHEDULING:**

- A. All waste containers shall be decontaminated and removed from the site before final cleanup is started and isolation barriers are taken down. The Contractor must pre-schedule and obtain the approval of Owner's Representative for all time periods during which he desires to remove waste bags from the facility. Once a truckload of waste containers has accumulated, the Contractor shall arrange for transportation to the disposal site. Waste shall not be stored in the worker

decontamination facility.

- B. Asbestos Waste Transportation and Disposal Regulations: It is the responsibility of the Contractor to determine and ensure that he is complying with: 1) the current waste handling regulations applicable to each work site; and 2) the current regulations for transporting and disposing waste at each ultimate disposal landfill. He must comply fully with these regulations, and with all U.S. Department of Transportation, State, and EPA requirements.
1. The Contractor (or his subcontractor) at no additional cost shall maintain a valid solid waste transportation registration issued by the Louisiana State Department of Transportation; and obtain, complete, and fully comply with any other local hazardous waste manifesting requirements. A copy of any manifest forms shall be sent to the Owner's Representative after disposal is completed and all required data and signatures have been inserted.
  2. The Contractor shall provide a weight ticket to the Owner's Representative for each truckload of waste removed from the site.
  3. Waste hauling transportation methods shall comply with the provisions of EPA Title 40, Part 61, Subpart M, Louisiana Administrative Code, Department of Transportation and with any hazardous waste regulations for temporary storage, transport, and disposal if such codes are enforced in states where the waste shall be stored, transported, or disposed of.

PART 2.0 - PRODUCTS (NOT APPLICABLE)

PART 3.0 - EXECUTION

3.1 ASBESTOS WASTE DISPOSAL:

- A. Asbestos Waste Packaging: All asbestos waste material shall be promptly placed in 6-mil clear polyethylene bags or other suitable containers lined with 6-mil polyethylene sheeting as it is generated. A sufficient number of waste bags shall be located in the immediate work area, and in the Equipment Room of the Worker Decontamination Facility, The Contractor shall count or measure the volume of each filled container leaving the work area, and maintain a written record of such.
- B. Asbestos Waste Labeling: Warning labels shall have waterproof print and permanent adhesive, in compliance with OSHA, EPA and DOT requirements, and shall be affixed to or printed on the sides of all waste bags or transfer containers. Warning labels shall be conspicuous and legible, and contain the following words:

DANGER  
CONTAMINATED ASBESTOS FIBERS  
AVOID CREATING DUST  
CANCER AND LUNG DISEASE HAZARD

AND

RQ HAZARDOUS  
SUBSTANCE  
SOLID, NOS

ORM-E, NA 9188  
(ASBESTOS)

In addition, the Contractor shall prepare and affix to each waste container the following label in accordance with the NESHAP regulation:

HAZARDOUS WASTE  
FEDERAL LAW PROHIBITS IMPROPER DISPOSAL

IF FOUND, CONTACT THE NEAREST POLICE OR PUBLIC SAFETY AUTHORITY, OR THE U.S.  
ENVIRONMENTAL PROTECTION AGENCY

GENERATOR INFORMATION:

Generator's Name: BREC Recreation and Parks Commission  
Generator's Address: Address to be provided by the Designer

- C. Wetting of Asbestos Waste: A fine water spray shall be used to keep the top layers of waste in containers thoroughly wet at all times. When a waste container is full, it shall be securely sealed with tape or other secure fastener.
- D. Asbestos Waste Container Decontamination and Removal Procedures: The following procedures shall be followed whenever containers or equipment are removed from the Work Area:
1. The Clean Room shall be considered a holding area only during the period of active waste transfer for the purpose of the loading of carts or drums. Storage of waste and carts (or drums) in the Clean Room is prohibited.
  2. Waste removal shall not occur during worker shift changes or when workers are showering or changing. Care shall be taken to prevent short circuiting and cycling of air outward through the Shower Room and Clean Room when used for waste removal.
  3. Workers are to be stationed in each room/area of the Decontamination Facility to transfer the containers and equipment to or from adjacent sections. These workers shall not cross the airlocks into the adjacent areas/rooms until the waste or equipment transfer is finished for that period and the workers have gone through decontamination as required by these specifications. The workers in the Clean Room or holding area shall enter from uncontaminated areas with appropriate personal protective equipment; or, prior to the start of waste transfer, these workers shall exit the Work Area, fully decontaminated, and subsequently don clean personal protective equipment.
  4. External surfaces of contaminated containers and equipment shall be cleaned by wet cleaning and/or HEPA vacuuming in the Work Area before moving such items into the Decontamination Facility airlock. Workers shall not enter the airlock during this procedure.
  5. The containers of waste and the equipment shall be removed from the airlock by workers stationed in the Washroom during waste removal operations.
  6. Once in the Washroom, external surfaces of contaminated containers and equipment shall be cleaned a second time by wet cleaning.

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7. The cleaned containers of waste and equipment shall be placed in uncontaminated leak-tight plastic bags, lined fiber drums or other lined containers (or 6-mil polyethylene sheeting if physical characteristics necessitate and permit). Air volumes shall be minimized, and the containers shall be sealed. Items that may puncture or tear the plastic bags or sheeting shall be placed in a hardwall container, such as a drum, and then sealed.
  8. The clean re-containerized items shall be moved into the airlock for subsequent transfer to the holding area. The Washroom workers shall not enter this airlock or the work area until waste removal is finished for the period.
  9. Re-containerized items and cleaned equipment shall be removed from the airlock to the holding area by workers who have entered from uncontaminated areas with appropriate personal protective equipment.
  10. The re-containerized items of waste and cleaned equipment shall be placed in open top, watertight plastic carts or drums. These carts or drums shall be held in the holding area pending removal. The carts or drums shall be HEPA-vacuumed or wet cleaned following the removal of the containers of waste from them.
  11. The exit from the Decontamination Facility shall be monitored and secured at all times to prevent unauthorized entry.
  12. The carts/drums may be temporarily stored in a holding area at the work site outside the work area until a transport vehicle arrives, but such storage areas must be pre-approved by the Owner and the Owner's Representative.
- E. Asbestos Waste Container Storage: Sealed labeled containers may be temporarily stored in the Work Area, or in a pre-designated and approved outside area, until a truckload quantity is obtained. The storage temporary area must be completely enclosed with wood or metal walls, floors and ceilings lined with 6-mil polyethylene sheeting and must remain locked at all times except during active loading or unloading. The temporary storage area shall be identified prominently and posted with warning signs.

3.2 WASTE WATER DISPOSAL PROCEDURES

- A. All waste water generated during the abatement work, including gross removal activities, final cleaning, and worker and equipment decontamination procedures must be completely collected by the Contractor and processed in accordance with all applicable Federal, State and local regulations, as well as with these specifications.
- B. Waste water shall be collected continuously during abatement activities. The storage container shall be connected to a filtering system consisting of no fewer than two (2) filters in a series leading to a 5.0 micron final filter and an adequately sized pump, prior to disposal in a sanitary sewer. In the absence of a sanitary sewer system, the wastewater shall be drummed and transported to an approved landfill in accordance with the requirements for disposal. The Contractor shall not allow storage on the existing floor system unless verified by a Structural Engineer.
- C. Used water filters and other equipment and supplies used in the maintenance of the filtering system must be disposed of as asbestos-containing waste.

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- D. The costs for wastewater filtration, storage, discharge, packaging, labeling, transport, and approved disposal (plus all related record keeping) shall be borne by the Contractor.

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SECTION 02 83 19 - REMOVAL AND DISPOSAL OF LEAD-CONTAINING PAINT

PART 1.0 - GENERAL

1.1 DESCRIPTION OF WORK:

- A. The Contractor shall remove, package, transport, and dispose of all lead-containing materials as necessary to remove in its entirety, in accordance with all Federal, State, and local rules and regulations. The Contractor is responsible for all costs associated with the removal, packaging, transporting, and disposal of these materials.
- B. The work, in general, includes, but is not limited to, the following:
  - 1. The Contractor shall remove the paint coatings from the designated steel truss surfaces if these materials are to be reused, and restored, as described within this Section.
  - 2. Cleaning of any lead-containing paint contamination and lead-containing materials.
  - 3. Providing and implementing spill prevention control and countermeasure plans.
  - 4. Placement of all lead-contaminated items generated as a result of work activities into approved containers/drums.
  - 5. Conducting pre-disposal TCLP testing in the presence of the Owner/ Representative and 3<sup>rd</sup> Party Laboratory Analysis.
  - 6. Transportation of lead and lead-contaminated items and containers to the disposal site.
  - 7. Providing properly completed Waste Manifest/Waste Shipment Record Form.
  - 8. Provide name and location of disposal site.
- C. All lead-related work activities to be accomplished under this section shall be coordinated closely with asbestos abatement work to minimize potential toxic exposure.
- D. Prior to commencing this work, the Contractor shall inspect thoroughly the work area and prepare a construction schedule which lists anticipated time frames and sequence of operations for the various work activities. The construction schedule shall include activities such as contamination clean-up and removal of all Lead-containing articles, items and containers from the work area. The construction schedule also shall include routing for all Lead-containing items to be removed from the work area and transported to disposal areas. Work activities, sequence of work, and routing scheme shall be transmitted to the Owner's Representative prior to the commencement of any work under this section.
- E. The Contractor shall furnish and maintain the electrical power and water to the site for the Contractors and Air Monitoring Firm's use and equipment.

1.2 APPLICABLE PUBLICATIONS:

- A. The applicable sections, latest editions, and addenda of the following governmental regulations, codes, industry standards, and recommended practices form a part of these specifications.

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Nothing in these specifications is to be construed as permitting work not conforming to these requirements:

1. USEPA - United States Environmental Protection Agency
2. NEC - National Electrical Code
3. NEMA - National Electrical Manufacturers Association
4. RCRA - Resource Conservation and Recovery Act
5. TSCA - Toxic Substances and Control Act
6. DOT - Department of Transportation
7. Louisiana Department of Environmental Quality
8. OSHA - Occupational Safety and Health Administration
9. NFPA - National Fire Protection Association
10. All other applicable Federal, State, Parish and city codes, standards and regulations.

B. The Contractor is cautioned that he is responsible for ascertaining the extent to which these regulations affect the operations under these Contract Documents and to comply therewith.

1.3 DEFINITIONS: Refer to Section 01 42 18 for terms and definitions used in these Contract Documents.

1.4 SUBMITTALS: Refer to Section 01 33 23 for Contractor Submittal requirements.

1.5 RESPIRATORY AND PERSONNEL PROTECTION AND DECONTAMINATION: Refer to Sections 01 35 29.13 and 01 35 29.23 for Contractor respiratory and personnel protection and decontamination requirements. Respirators with particulate/organic filtration, non-absorbent suits, gloves, and boots shall be worn while removing and handling materials.

1.6 WASTE DISPOSAL: Disposal by the Contractor. Refer to Paragraph 3.6 of this Section for Contractor waste disposal requirements.

## PART 2.0 - PRODUCTS

### 2.1 GENERAL REQUIREMENTS:

A. The Contractor shall deliver all materials and equipment to the site in the original containers bearing the name of the manufacturer and details for proper storage and usage.

B. All materials or equipment delivered to the site shall be unloaded, temporarily stored, and transferred to the Work Area in a manner, which shall not interfere with operations of the building occupants. The Contractor shall not allow the storage containers on the existing floor system unless these loads are verified by a Structural Engineer as being acceptable.

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- C. Unloading and temporary storage sites, and transfer routes, must be approved in advance by the Owner's Representative and the Owner.
- D. Damaged or deteriorated materials may not be used and must be promptly removed from the premises. Material which becomes contaminated with asbestos-containing material shall be packaged and legally disposed of in an approved landfill.
- E. Techniques, procedures, and equipment required by these specifications may be covered by one or more U.S. and/or foreign patents. It is the sole responsibility of the Contractor to determine what, if any, patents are applicable and to meet the requirements of the patent owner, including fees regarding the use of these patents.

2.2 MATERIALS, TOOLS, AND EQUIPMENT:

- A. All materials, tools, and equipment must comply, at a minimum, with this specification, and relevant Federal, State, and local codes. For the construction of containment barriers, work platforms, and decontamination facilities, all lumber and plywood shall be fire retardant. Flame-resistant polyethylene film shall conform to requirements set forth in the National Fire Protection Association, shall be fire-retardant, and shall bear manufacturer's stamp of Underwriters Laboratory Classification.

PART 3.0 - EXECUTION

- 3.1 GENERAL: The requirements and sequences described herein are parameters for execution of the abatement work and do not include necessarily all abatement requirements. The Contractor will be responsible for all items that may be necessary to complete the abatement work in accordance with the Contract Documents Work Plan, and all applicable regulations.

3.2 LEAD-PAINT REMOVAL/PRIMING:

- A. The Contractor shall prepare/contain the work area prior to commencing removal of lead-containing paint materials.
- B. The Contractor shall remove the damaged lead-containing paint from exterior surfaces if these materials are to be re-used and refinished; sand and smooth and prime with a ferrous metal primer, factory formulated rust inhibitive metal primer for exterior application; See paragraph 3.8 Primer.
- C. Once all of the lead-containing materials have been placed in the approved containers, the containers shall be decontaminated as necessary and placed in a lockable storage container.
- D. The Contractor shall arrange for and conduct pre-disposal TCLP Testing in the presence of the Environmental Consultant and Laboratory Analysis, and transportation of these materials to the disposal site in accordance with all Federal, State, and local rules and regulations (as required).

3.3 SPILL CLEAN-UP, CONTAINERIZATION AND MARKING:

- A. Equipment and Tools: After the lead-containing paint has been separated from the structural steel, all tools and equipment used in the work shall be decontaminated and properly stored.

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Where work surfaces have contacted Lead-containing paint fluids, they shall be scraped clean, flushed with solvent, wiped clean, and all debris placed in approved drums and properly disposed of. All tools that may have come in contact with Lead-containing paint at any concentration shall be thoroughly cleaned.

- B. Roof and Steel Structures: All roof steel surfaces that may have come in contact with Lead-containing paint, either during the course of work activities or due to past peeling or deterioration, shall be removed, cleaned thoroughly and wiped clean sanded and smooth and primed.

3.4 CONTAINERIZATION AND MARKING:

- A. All debris and materials generated as a result of work activities and clean-up operations shall be placed in closed top drums and sealed with a steel ring band with bolt compression device. All solids, such as rags, disposable protective clothing, and other incidentals, shall be placed in closed top drums and sealed with a steel ring band with bolt compression device.
- B. All drums and Lead containing containers (where used) shall be permanently marked as to specific contents and dated in accordance with Federal, State and local rules and regulations. In addition, each drum (and container) shall be sealed with a steel ring band with bolt compression device.

3.5 LEAD-CONTAINING DEBRIS: If a lead-containing debris spill occurs, the Contractor shall implement the emergency spill plan procedures.

- A. The Contractor shall limit the airborne Lead concentration of the air to below 30 microgram per cubic meter of air (30 ug/m<sup>3</sup>) or the background level before the start of the project, whichever is lower.
- B. The Contractor shall limit the Lead concentration of building surfaces to below 800 micrograms per square foot, (800ug/ft<sup>2</sup>).
- C. If required, air monitoring data shall include the sorbent type, sampling rate, sampling volume, analytical method, amount of lead-containing paint detected, and limit of detection, as per NIOSH analytical methods. Surface monitoring shall include the filter type, sorbent type, sampling, location area sampled, analytical method, amount of lead-containing paint detected and the limit of detection, as per NIOSH analytical Method 5503. Analytical results for lead analysis shall be provided to the Owner's Representative within 24 hours of the end of work on any weekend or within 24 hours of the removal of the material.

3.6 HANDLING AND TRANSPORTATION TO OFF-SITE DISPOSAL FACILITIES:

- A. Handling of Drums: All closed top drums must be sealed and marked prior to loading on the transport vehicle. Filled drums shall be loaded on the transport vehicle by any of the following methods:
  - 1. By a hoist or lift truck utilizing a two-point drum lifter.
  - 2. By a lift truck lifting the drums from underneath by a pallet attached to the drum by a banding arrangement.

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- B. Drums shall not be lifted by any rope, chain or cloth slings tied about the drum, placement of drums on bare-lift truck forks, forcing drums between forks of a lift truck, or any commercial drum lift exerting force on the sides of a drum.
- C. All drums or Lead-containing article containers shall be secured to the transport vehicle to prevent movement in transit.
- D. All Lead-containing articles and all drums containing solids and incidentals shall be disposed of in accordance with Federal and State regulation.
- E. The Contractor shall utilize a Waste Hauler Contractor licensed for the transportation and hauling of Lead-containing hazardous wastes. The firm shall provide a routing plan which clearly identifies the routes he proposes to follow while transporting Lead-containing items from the various work areas (points of generation) to the disposal site. A minimum of two operators shall be in attendance at all times when Lead-containing items are being loaded and unloaded.
- F. Vehicles used for transporting of Lead-containing items must be marked plainly and visibly in accordance with Federal, State and local rules and regulations.
- G. Unloading, Records, and Placement in Storage: Transport vehicles shall be unloaded utilizing the same equipment and methods as for loading. Immediately following unloading of the Lead-containing transport vehicle, the cargo area shall be inspected to check for any fluid leaks. If any fluid leaks are found, the source of the leaking drum or item shall be identified and sealed. The contaminated cargo area shall be thoroughly cleaned. Cleaning solvents and solids shall be placed in proper drums.
- H. Upon completion of all Lead removal work related activities, the Contractor shall provide a complete record of such activities and incinerator data to the Owner's Representative. The record shall include but not be limited to:
  - 1. Name of the Contractor performing the work outlined in this Section and the technician-in-charge.
  - 2. Lead-containing paint removed:
    - a. Date removed from service and location.
    - b. Date of incineration.
    - c. Weight in kilograms.
  - 3. Drums and Lead-containing paint article containers (where applicable):
    - a. Drum size (30 or 55 gallon).
    - b. Identification of contents, etc., for solids, rags, sorbents, etc.
    - c. Weight in kilograms of contents of each drum (or container).
    - d. Date items were destroyed and location and company.

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4. Hazardous Waste Manifests/Waste Shipment Record Form and Chain-of-Custody Forms shall be provided for all hazardous waste materials, and hazardous waste manifests shall be presented to the Owner's Representative.

3.7 SAFETY PROCEDURES AND WORKER PROTECTION:

- A. All required precautions and measures shall be taken to protect employees, related trade employees, inspection personnel, and the general public from exposure to Lead-containing paint solids and vapors. (The Contractor shall follow procedures similar to those utilized when handling asbestos containing material and as described herein; see Section 02 82 10 Removal of Asbestos-Containing Materials).
- B. Work Area Protection and Marking: Prior to commencing any Lead-related work activities, barricades and warning signs shall be provided to identify clearly and guard effectively against unauthorized entry into the work area.
- C. All equipment shall be confined to the work area until the work is complete and containers are sealed and equipment properly and safely stored for transport.
  1. Barricades: If approved asbestos-related temporary enclosures are in use, no additional Lead-related temporary enclosures need to be constructed, except as needed in case of Lead-related emergency,
  2. Signs: During the Lead work phase, the Contractor shall place warning signs at intervals of approximately ten feet. The warning signs for work areas shall be approximately one foot six inches square with yellow background and one inch black letters.
- D. Protective measures shall be provided in connection with the transport of Lead-containing materials within the building over for the entire pathway to the exterior elevators to the transporting vehicle.
- E. Protective Clothing and Equipment: At all times when Lead-containing materials in any volume are not sealed in drums, containers, or electrical equipment, workers shall wear:
  1. Disposable, nonporous gloves.
  2. Disposable whole body clothing impermeable to Lead.
  3. Respiratory protection (NIOSH/MSHA-approved) against Lead vapors and particulates (at least the level of particulate protection required at that stage of work for asbestos protection).
  4. Eye protection.
  5. Hard hats.
- F. The Contractor shall provide protective clothing, eye protection, and respiratory protection as required for inspection personnel monitoring work activities within the work area.
- G. Personnel Protection and Procedures: The Lead work area shall at no time be left unattended after procedures have begun and until all materials and incidentals have been sealed in approved, properly labeled containers. If immediate transportation to the Lead incineration

ADDENDUM NO. 2 - ENVIRONMENTAL ABATEMENT  
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facility is not feasible, the Work Area must be secured in a manner in accordance with Federal, State and local rules and regulations. During procedures and at all times when lead-containing materials and debris in any volume are not sealed in drums, containers, or electrical equipment, all personnel entering the work area must don protective clothing and equipment as listed herein. Upon exiting the work area, all disposable protective clothing shall be placed in approved drums, sealed, and disposed of as specified herein.

- H. Workers with cuts or scratches shall protect these wounds before entering the work area. Similarly, workers who accidentally incur minor cuts or scratches in the course of work activities shall leave the work area, cleanse the wound with medical grade soap, and seal the wound before returning to the work area.
- J. The Contractor shall develop a sequenced plan for the completion of all Lead related work and submit this plan in advance of such work to the following Owner's Representative. The plan shall address the following items:
  - 1. Lists of vehicles, equipment, and personnel to be used in accomplishing the work.
  - 2. The emergency spill plan, which shall encompass all steps the Contractor will take in the event of a spill or other emergency.
  - 3. Safety procedures, which shall cover all phases of operations, including but not limited to, handling, loading, transporting, securing Lead-containing paint, and first aid procedures.

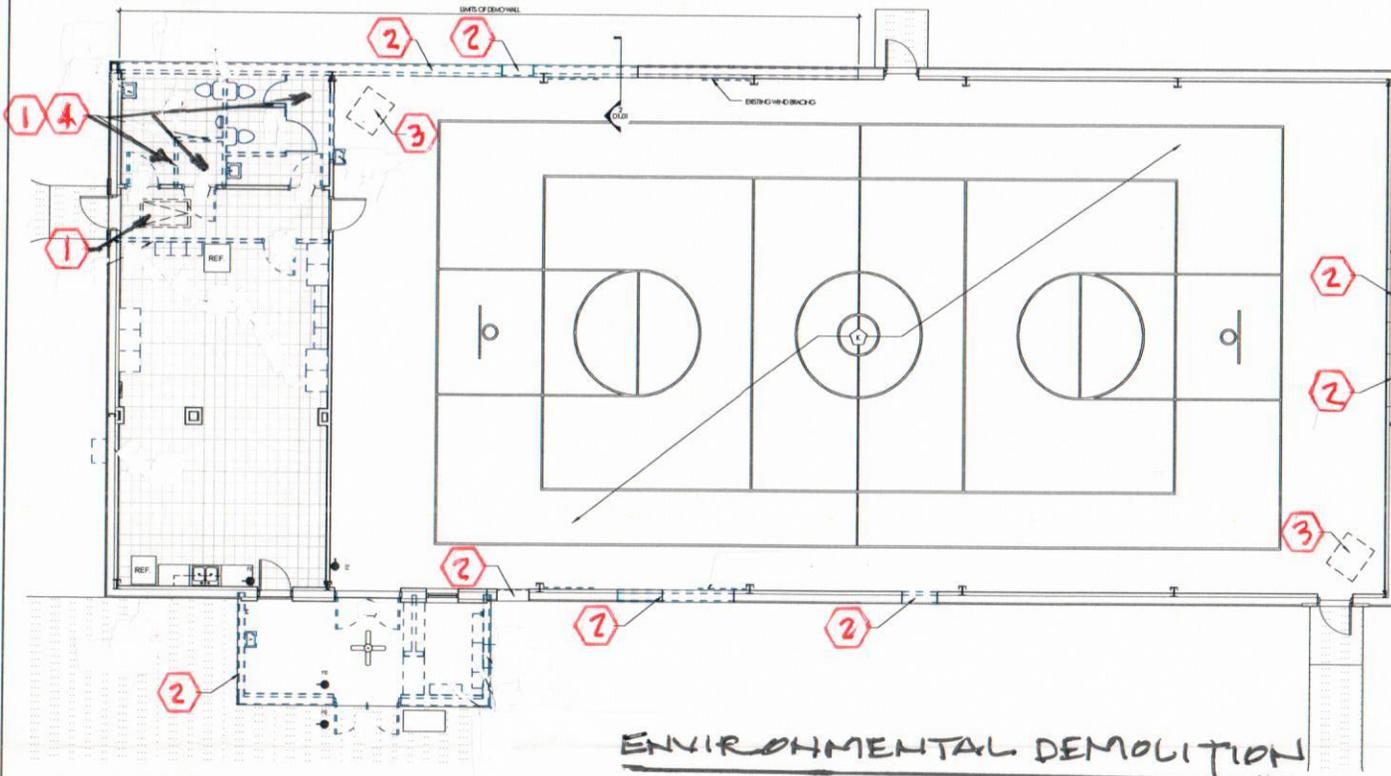
3.8 PRIMER (NOT REQUIRED)

- A. The Contractor shall remove the lead-containing paint from designated exterior surfaces, sand and prime with a ferrous metal primer, factory formulated rust inhibitive metal primer for exterior application; Benjamin Moore, IMC Alkyd Metal Primer No. M06, applied at a dry film thickness of not less than 2.0 mils; Coronado, 35-147 Rust Scat Alkyd Metal Primer, applied at a dry film thickness of not less than 2.0 mils; Dulux Paint, 4160-xxxx Devguard Multi-Purpose Tank and Structural Primer, applied at a dry film thickness of not less than 2.0 mils; Pittsburgh Paints, 90-712 Pitt-Tech One Pack Interior/Exterior Primer Finish DTM Industrial Enamel, applied at a dry film thickness of not less than 3.0 mils; or Sherwin-Williams, Kem Kromik Universal Metal Primer B50Nz6/B50Wz1, applied at a dry film thickness of not less than 3.0 mils.

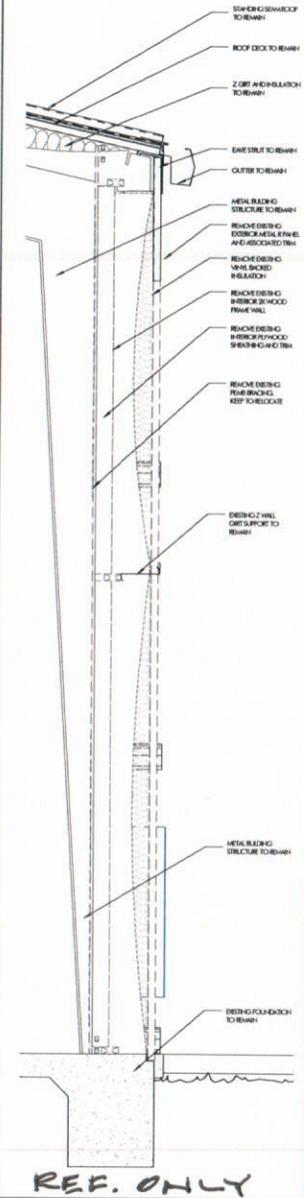
**END OF SECTION 02 83 19**

**ENVIRONMENTAL SHEET NOTES:**

1. THE CONTRACTOR SHALL REMOVE THE CEILING TEXTURE, TAPE AND MUD AND DISPOSE OF ASBESTOS-CONTAINING MATERIAL IN ACCORDANCE WITH SECTIONS 02 82 10 AND 02 82 40.
2. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF PAINT/COATING FROM THE SUPPORT TRUSS AS NECESSARY TO ACCOMMODATE THE WORK; REMOVE A 2 FOOT AREA AROUND THE WORK AND DISPOSE OF AS LEAD-CONTAINING MATERIAL IN ACCORDANCE WITH SECTION 02 83 19. THE CONTRACTOR SHALL REMOVE LOUVER CAULKING (WHERE IT EXISTS) AND DISPOSE OF AS ASBESTOS-CONTAINING MATERIAL IN ACCORDANCE WITH SECTIONS 02 82 10 AND 02 82 40.
3. THE CONTRACTOR SHALL REMOVE THE HEATER EXHAUST FLUE (WHERE IT EXISTS) AND DISPOSE OF AS ASBESTOS-CONTAINING MATERIAL IN ACCORDANCE WITH SECTIONS 02 82 10 AND 02 82 40.
4. THE CONTRACTOR SHALL REMOVE REMAINING FLOORING MASTIC RESIDUE (WHERE IT EXISTS WITHIN THE MENS AND WOMENS RESTROOM) AND DISPOSE OF AS ASBESTOS-CONTAINING MATERIAL IN ACCORDANCE WITH SECTIONS 02 82 10 AND 02 82 40. FLOOR TILES DO NOT CONTAIN ASBESTOS, HOWEVER IF THE MASTIC ADHERES TO THE FLOOR TILES, THE FLOOR TILES SHALL BE HANDLED AS AN ASBESTOS-CONTAINING IN ACCORDANCE WITH SECTIONS 02 82 10 AND 02 82 40.



**ENVIRONMENTAL DEMOLITION**



REF. ONLY



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RENOVATIONS  
**SB #1672 CHURCH STREET RECREATION CENTER**

3210 CHURCH STREET, ZACHARY, LA 70791

civil engineer:  
CRUMB ENGINEERING, LLC  
4609 FAIRFIELD STREET  
METAIRIE, LA 70006

No.	Description	Date

date  
15 JUNE 2016  
sheet

ENV. I.O

**1 DEMO FLOOR PLAN**  
3/16" = 1'-0"