

cityofnovi.org

# CITY of NOVI CITY COUNCIL

Agenda Item I  
May 23, 2016

**SUBJECT:** Approval to award the Novi Video Room Electrical and Mechanical to Great Lakes Power and Lighting INC, the City contracted Electrical contractor, in the amount of \$15,445.89 and R.W. Mead & Sons Inc., the City contracted Mechanical contractor, in the amount of \$23,860 and amend the budget.

**SUBMITTING DEPARTMENT:** Information Technology Department- Facilities Management Division

**CITY MANAGER APPROVAL:**

|                        |                    |
|------------------------|--------------------|
| EXPENDITURE REQUIRED   | \$ 39,305.89       |
| AMOUNT BUDGETED        | \$ 0               |
| APPROPRIATION REQUIRED | \$ 40,000          |
| LINE ITEM NUMBER       | 263-295.00-980.100 |

**BACKGROUND INFORMATION:**

The project scope will include the electrical and mechanical work per attached print to complete the Novi Video Studio that will be located on the second floor of the Civic Center. The proposed work is scheduled to begin in late May with completion in early June.

The mechanical work will be completed by R.W. Mead; the City's contacted HVAC contractor at a cost of \$23,860. The electrical will be completed by Great Lakes Power and lighting; the City's contracted electrical contractor at a cost of \$15,445.89.

**RECOMMENDED ACTION:** Approval to award the Novi Video Room Electrical and Mechanical to Great Lakes Power and Lighting INC, the City contracted Electrical contractor, in the amount of \$15,445.89 and R.W. Mead & Sons Inc., the City contracted Mechanical contractor, in the amount of \$23,860 and amend the budget.

|                      | 1 | 2 | Y | N |
|----------------------|---|---|---|---|
| Mayor Gatt           |   |   |   |   |
| Mayor Pro Tem Staudt |   |   |   |   |
| Council Member Burke |   |   |   |   |
| Council Member Casey |   |   |   |   |

|                        | 1 | 2 | Y | N |
|------------------------|---|---|---|---|
| Council Member Markham |   |   |   |   |
| Council Member Mutch   |   |   |   |   |
| Council Member Wrobel  |   |   |   |   |

**RESOLUTION**

NOW, THEREFORE BE IT RESOLVED that the following Budget Amendment for the renovation project in the PEG Cable Fund is authorized:

|  | <b>INCREASE<br/>(DECREASE)</b> |
|--|--------------------------------|
| <hr/> <b>PEG Cable Fund</b> <hr/>              |                                |
| <b>APPROPRIATIONS</b>                          |                                |
| Capital Outlay                                 | 40,000                         |
| <b>TOTAL APPROPRIATIONS</b>                    | <u>\$ 40,000</u>               |
| <b>Net Increase (Decrease) to Fund Balance</b> | <u><u>\$ (40,000)</u></u>      |

I hereby certify that the foregoing is a true and complete copy of a resolution adopted by the City Council of the City of Novi at a regular meeting held on May 23, 2016

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Maryanne Cornelius  
City Clerk



N 42 43' 39" ♦ W 82 41' 81"

## Quotation

Date: May 10, 2016

To: City of Novi

Attn: Brandon

**Project:** Civic center new panel lower level

In accordance with your request we are pleased to quote the electrical installation required for the above referenced project as follows:

- Supply and install new panel and wiring
- Demo old panel on wall
- Provide new fuses
- Breakers to feed video studio

**Total Price: \$2967.33**

Thank you for the opportunity. If you require additional information please do not hesitate to contact me.

Sincerely,  
Alan Thueme  
Purchasing agent  
Great Lakes Power & Lighting, Inc.  
E-mail: [athueme@greatlakespwr.com](mailto:athueme@greatlakespwr.com)  
Cell Ph: 586-855-0960



N 42 43' 39" ♦ W 82 41' 81"

## Quotation

Date: May 10, 2016

To: City of Novi

Attn: Brandon

**Project: Video Studio**

In accordance with your request we are pleased to quote the electrical installation required for the above referenced project as follows:

Supply and install new lighting  
New plugs and raceway.  
Mechanical equipment power  
4000 wiremold on wall for cart  
No floor box work included. This will be in wall

**Total Price: \$12478.56**

Thank you for the opportunity. If you require additional information please do not hesitate to contact me.

Sincerely,  
Alan Thueme  
Purchasing agent  
Great Lakes Power & Lighting, Inc.  
E-mail: [athueme@greatlakespwr.com](mailto:athueme@greatlakespwr.com)  
Cell Ph: 586-855-0960



*Contractors - Engineers  
Troubleshooters - Maintenance  
of Mechanical Systems*

**CORPORATE OFFICE**  
33795 RIVIERA  
FRASER, MI 48026  
(586) 296-3650  
(586) 294-0410 FAX

**ANN ARBOR OFFICE**  
1900 WEST STADIUM  
SUITE C3  
ANN ARBOR, MI 48103  
(734) 662-6675

A Michigan Corporation

May 17, 2016  
Quote #6164

City of Novi  
45175 W. Ten Mile Rd.  
Novi, MI 48375  
Attn: Brandon McCullough

Re: Civic Center – Video Studio

Dear Mr. McCullough,

We are pleased to submit our proposal to provide all the necessary labor, material, permits, and equipment as noted in prints provided by John Tagle Associates, Inc. dated 4-29-16.

**PROJECT:**

- Demo existing ductwork, VAV box and diffusers in room designated for new video studio.
- Furnish and install one (1) new ceiling plenum mounted Mitsubishi fan coil unit with cooling evaporator.
- Furnish and install all necessary and required supply and return ductwork, diffusers, balancing dampers and branch run-outs.
- Furnish and install one (1) electric duct heater in supply ductwork
- Furnish and install one (1) condensate pump to condensate pan.
- Pipe condensate pump to drain identified on print.
- Furnish and install one (1) new Mitsubishi air cooled condenser on roof pad over video room.
- Refrigerant pipe new fan coil unit to new roof-top air cooled condenser.
- Furnish and install two (2) air return transfer ductwork in rooms noted on print.
- Charge system with R410A refrigerant.
- Furnish and install one (1) new wall mounted thermostat in video room and control wire back to new fan coil unit.
- Start, test and inspect new units after customer supplied power wiring.
- Air balance video room air distribution system.
- Furnish and install one (1) new Mitsubishi below ceiling wall mounting AC unit in room next to video room.
- Furnish and install condensate pump and pipe to drain identified on print.
- Furnish and install one (1) new Mitsubishi air cooled condenser on pad over room.
- Refrigerant pipe new wall mounted evaporator to roof-top air cooled condenser.



- OUR MISSION -

To provide the highest standard of quality and value with a work force motivated by pride and the confidence in their ability to surpass the expectations of our customers



- Charge system with R410A refrigerant.
- Start, test and inspect new units after customer supplied power wiring.

PROJECT COST: \$23,860.00  
(Twenty Three Thousand Eight Hundred Sixty Dollars)

All work will be performed between the hours of 8:00am – 4:30pm Monday through Friday, except holidays.

EXCLUSIONS:

- Premium time.
- Power wiring of all new AC units.
- Roof cutting and roof pipe curb assembly flashing.

WARRANTY:

- One (1) year R. W. Mead & Sons warranty on equipment and installation.

Thank you for allowing R. W. Mead & Sons the opportunity to quote this project. If you have any questions, please call me at 586-296-3650.

Respectfully submitted,  
R. W. Mead & Sons, Inc.



John Mora  
Contract/Project Manager

AGREED: \_\_\_\_\_

# CITY OF NOVI VIDEO STUDIO

## INTERIOR MODIFICATIONS

45175 W. 10 MILE ROAD  
NOVI, MI 48375

### DRAWING INDEX:

#### ARCHITECTURAL

COVER SHEET  
A-010 GENERAL INFORMATION  
A-200 PLANS, DETAILS, & SCHEDULES

#### MECHANICAL

M-100 COVER SHEET & SPECIFICATIONS  
M-200 DEMOLITION PLAN & NEW HVAC PLAN  
M-300 DETAILS & SCHEDULES

#### ELECTRICAL

E-100 ELECTRICAL GENERAL INFORMATION  
E-200 POWER & LIGHTING PLANS

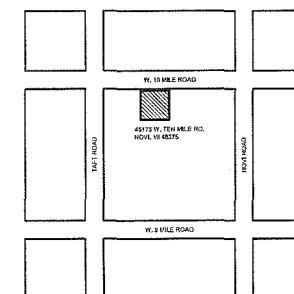
JTAI

JOHN TAGLE ASSOCIATES, INC.  
ARCHITECTS & PLANNERS

5455 Corporate Drive, Suite 308  
Troy, Michigan 48068-2620  
Tel: 248-641-0400  
Fax: 248-641-0401  
Web: www.jtai.net

DIN ENGINEERING  
MECHANICAL ELECTRICAL

23880 MIDDLEBELT RD.  
SUITE 2202  
FARMINGTON HILLS, MI 48336  
Tel: 248 651-2406  
Fax: 248 653-7072



LOCATION MAP  
NOT TO SCALE



JTAI JOB NO.

16.06

# ARCHITECTURAL NOTES & SPECIFICATIONS

## GENERAL SPECIFICATIONS

### DIVISION 0

BIDDING AND CONTRACT REQUIREMENTS  
NOT APPLICABLE

### DIVISION 1

GENERAL REQUIREMENTS

- THE CONTRACTOR SHALL VERIFY ALL LINES, LEVELS, DIMENSIONS AND MEASUREMENTS FOR THE PROPER CONSTRUCTION OF THE WORK.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER CUTTING, FITTING OR PATCHING OF THE WORK THAT MAY BE REQUIRED TO MAKE ITS SEVERAL PARTS FIT TOGETHER OR MAKE NEW WORK JOIN WITH THE EXISTING WORK.
  - ALL ADJACENT FINISHED SURFACES, MATERIALS, OR PROPERTY THAT ARE DAMAGED BY THE WORK SHALL BE REPAIRED WITH MATERIALS MATCHING EXISTING SURFACES OR REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COSTS TO THE OWNER.
  - JOINTS BETWEEN PATCHED AND EXISTING MATERIALS SHALL BE STRAIGHT, SMOOTH AND FLUSH. ALL PATCHING WORK SHALL BE PERFORMED BY WORKMEN SKILLED IN THE SPECIFIC TRADE INVOLVED.
- CONTRACTOR TO COMPLY WITH THE REQUIREMENTS OF LAWS, CODES, ORDINANCES AND REGULATIONS OF THE GOVERNMENTAL AUTHORITIES HAVING JURISDICTION WHERE SUCH REQUIREMENTS EXCEED THE REQUIREMENTS OF THE SPECIFICATIONS.
- THE CONTRACTOR SHALL CONTINUOUSLY OBSERVE THE WORK TO ASSURE THAT SHOULD PREVIOUSLY UNSEEN ASBESTOS OR OTHER HAZARDOUS SUBSTANCES BE ENCOUNTERED, THAT SAFETY PROCEDURES WILL IMMEDIATELY GO INTO EFFECT.
  - IMMEDIATELY CEASE WORK AND NOTIFY THE OWNER AND ARCHITECT.
  - ISOLATE THE WORK AREA AND POST "HAZARDOUS MATERIAL - DO NOT ENTER" SIGNS.
  - PUT INTO EFFECT ALL EPA, MIOASHA AND MICHIGAN DEPARTMENT OF HEALTH PRECAUTIONS.
  - THE REMOVAL OF HAZARDOUS MATERIALS SHALL BE AT THE EXPENSE OF THE OWNER.
- CONTRACTOR SHALL SCHEDULE AND CONDUCT MEETINGS AND CONFERENCES AT THE PROJECT SITE, UNLESS OTHERWISE INDICATED.
- CONTRACTOR TO PROVIDE THE FOLLOWING TYPES OF SUBMITTALS FOR REVIEW AND RECORDS:
  - SHOP DRAWINGS
  - PRODUCT DATA
  - SAMPLES - TWO (2), PLUS EXTRA SAMPLES AS REQUIRED TO INDICATE RANGE OF COLOR, FINISH AND TEXTURE TO BE EXPECTED.
  - INSPECTION AND TEST REPORTS.
  - WARRANTIES
- A PROGRESS SCHEDULE SHOWING THE WORK SEQUENCE, WORK TASKS, TASK DURATIONS AND START AND COMPLETION DATES FOR ALL TRADES SHALL BE PROVIDED PRIOR TO THE BEGINNING OF ANY WORK.
  - THE SCHEDULE SHALL EXTEND FROM THE DATE ESTABLISHED FOR THE COMMENCEMENT OF WORK TO THE DATE OF FINAL COMPLETION.
- THE OWNER MAY PERFORM WORK WITH HIS OWN FORCES OR UNDER SEPARATE CONTRACT TO OTHERS. THIS WORK SHALL BE COORDINATED BETWEEN THE OWNER, CONTRACTOR AND ARCHITECT AND SHALL BE SHOWN ON THE PROGRESS SCHEDULE.
- THE FOLLOWING MATERIALS, BUILDING SYSTEMS AND EQUIPMENT REQUIRE SUBMISSION OF SHOP DRAWINGS, MATERIAL LISTS, PRODUCT DATA CATALOGS, ETC.
  - ACOUSTIC INSULATION
  - JOINT SEALERS AND FIRE STOPPING
  - DOORS & FRAMES
  - DOOR HARDWARE
  - GYPSUM DRYWALL SYSTEMS
  - ACOUSTICAL CEILINGS
  - PAINTS
  - LOUVERS & VENTS
  - TEMPERATURE CONTROLS
  - MECHANICAL EQUIPMENT
  - ELECTRICAL EQUIPMENT
  - LIGHT FIXTURES
  - FIRE PROTECTION SYSTEMS AND CALCULATIONS
- EACH PHASE OF THE PROJECT WILL BE DEEMED COMPLETE UPON COMPLETION OF THE PUNCH LIST AND ACCEPTANCE BY THE ARCHITECT AND THE OWNER.
- ALL SCRAP OR REMOVED MATERIAL, DEBRIS OR RUBBISH SHALL BE REGULARLY REMOVED FROM THE BUILDING AT THE END OF EACH WORKING DAY. CLEAN THE ENTIRE PROJECT AREA AT THE COMPLETION OF CONSTRUCTION INCLUDING FINISH SURFACES, MECHANICAL AND ELECTRICAL EQUIPMENT, FIXTURES, LAMPS, ETC.
- CONTRACTOR TO PROVIDE TEMPORARY BARRICADES AND OTHER PROTECTION REQUIRED TO PREVENT INJURY TO PEOPLE AND DAMAGE TO ADJACENT BUILDING AREAS IN A MANNER THAT DOES NOT RESTRICT THE OWNER'S ACCESS TO ALL PARTS OF THEIR FACILITY.
- CONTRACTOR TO PROVIDE CONSTRUCTION AIDS AND EQUIPMENT AS REQUIRED BY PERSONNEL FOR EACH TRADE AS NECESSARY TO FACILITATE THE EXECUTION OF THE WORK. REMOVE ALL SUCH ITEMS WHEN THEY ARE NOT NEEDED.
- CONTRACTOR SHALL NOTIFY ARCHITECT OF ANY CONDITIONS FOUND WHERE A MODIFICATION OF THE INTENT OF THE PLANS WOULD PRODUCE BETTER RESULTS.

### DIVISION 2

SITE WORK  
NOT APPLICABLE

### DIVISION 3

CONCRETE  
NOT APPLICABLE

### DIVISION 4

MASONRY  
NOT APPLICABLE

### DIVISION 5

STEEL  
(NOT APPLICABLE)

### DIVISION 6

WOOD AND PLASTIC

- PERFORM ALL ROUGH CARPENTRY AS SHOWN IN DRAWINGS.
- PROVIDE AND INSTALL TREATED WOOD NAILERS. ALL WOOD NAILERS ANCHORED TO STEEL OR MASONRY TO BE NON-COMBUSTIBLE 2" X 4" MINIMUM OR AS INDICATED IN DRAWINGS.

### DIVISION 7

THERMAL AND MOISTURE PROTECTION

- PROVIDE INSULATING MATERIALS THAT COMPLY WITH REQUIREMENTS AND WITH REFERENCED STANDARDS AND IN SIZES TO FIT APPLICATIONS INDICATED, SELECTED FROM MANUFACTURER'S STANDARD THICKNESSES, WIDTHS AND LENGTHS.
    - SOUND ATTENUATION BATT INSULATION.
      - TYPE: UN-FACED FIBERGLASS ACOUSTICAL INSULATION COMPLYING WITH ASTM C 533, TYPE III.
      - SIZE: 72" W X 70"-0" L X 1" T
      - SURFACE BURNING CHARACTERISTICS: MAX. FLAME SPREAD - 25; MAX. SMOKE DEVELOPED - 50.
      - ACOUSTIC PERFORMANCE: NRC 0.70
    - ACCEPTABLE MANUFACTURER, OR APPROVED EQUAL: OWENS CORNING
    - PRODUCT: SELECTSOUND BLACK ACOUSTIC BLANKET.
  - LOW FREQUENCY SOUND BATT INSULATION.
    - TYPE: UNFACED RECYCLED BONDED ACOUSTICAL COTTON FIBER PADS COMPLYING WITH ASTM E84.
    - SIZE: 2' W X 4' L X 4" T
    - SURFACE BURNING CHARACTERISTICS: MAX. FLAME SPREAD - 23
    - ACOUSTIC PERFORMANCE: NRC 1.15
    - ACCEPTABLE MANUFACTURER, OR APPROVED EQUAL: ASISTOREFRONT.COM
    - PRODUCT: BASS BUSTER - LOW FREQUENCY SOUND ABSORBER.
- PROVIDE JOINT SEALANTS, BACKINGS AND OTHER RELATED MATERIALS THAT ARE COMPATIBLE WITH ONE ANOTHER AND WITH JOINT SUBSTRATES UNDER CONDITIONS OF SERVICE AND APPLICATION, AS DEMONSTRATED BY SEALANT MANUFACTURER BASED ON TESTING AND FIELD EXPERIENCE.
- ELASTOMERIC JOINT SEALANTS
  - LOW-MODULUS NONACID-CURING SILICONE SEALANT
    - AVAILABLE PRODUCTS, OR APPROVED EQUALS:
      - TREMCO; SPECTREM 1
      - DOW CORNING; 750
    - TYPE AND GRADE: S (SINGLE COMPONENT) AND NS (NONSAG).
    - CLASS: 25
    - ADDITIONAL MOVEMENT CAPABILITY: CAPABLE OF 50% MOVEMENT IN EXTENSION COHESION UNDER MAXIMUM CYCLIC MOVEMENT PER ASTM C 719.
    - EXPOSURE: USE NT (NONTRAFFIC)
    - SUBSTRATES: USES M, G, A, AND AS APPLICABLE TO JOINT SUBSTRATES INDICATED, O.
    - NON-STAINING TO POROUS SUBSTRATES WHEN TESTING PER ASTM C 1248 FOR SUBSTRATES.
- ACOUSTICAL JOINT SEALANTS
  - ACOUSTICAL SEALANT FOR EXPOSED AND CONCEALED JOINTS: NONSAG, PAINTABLE, NONSTAINING LATEX SEALANT COMPLYING WITH ASTM C 834 THAT EFFECTIVELY REDUCES AIRBORNE SOUND TRANSMISSION THROUGH PERIMETER JOINTS AND OPENINGS IN BUILDING CONSTRUCTION AS DEMONSTRATED BY TESTING REPRESENTATIVE ASSEMBLIES ACCORDING TO ASTM E 90.
    - AVAILABLE PRODUCT, OR APPROVED EQUALS:
      - PECORA CORPORATION; AC-20 FTR ACOUSTICAL AND INSULATION SEALANT.
- PROVIDE SEALANT BACKINGS OF MATERIAL AND TYPE THAT ARE NON-STAINING, COMPATIBLE WITH JOINT SUBSTRATES, SEALANTS, PRIMERS AND OTHER JOINT FILLERS AND ARE APPROVED FOR APPLICATIONS INDICATED BY SEALANT MANUFACTURER BASED ON FIELD EXPERIENCE AND LABORATORY TESTING.
  - CYLINDRICAL SEALANT BACKINGS: ASTM C 1330 OF SIZE AND DENSITY TO CONTROL SEALANT DEPTH AND OTHERWISE CONTRIBUTE TO PRODUCING OPTIMUM SEALANT PERFORMANCE.
    - TYPE: C (CLOSED-CELL MATERIAL WITH A SURFACE SKIN).
- INSTALL SEALANTS AND BACKER RODS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. CLEAN EXCESS SEALANTS OR SEALANT SMEARS ADJACENT TO JOINTS AS INSTALLATION PROGRESSES.

### DIVISION 8

DOORS AND WINDOWS

- PROVIDE DOORS AND FRAMES OF THE TYPES SHOWN ON THE DOOR SCHEDULE AND WHOSE COMPONENTS ARE MANUFACTURED BY COMPANIES NOTED HERE, OR THEIR APPROVED EQUALS.
  - WOOD DOORS
    - ALGOMA HARDWOODS
    - V.T. INDUSTRIES, INC.
  - HOLLOW METAL FRAMES
    - CURRIES COMPANY
    - STEELCRAFT-ALLEGION
  - HOLLOW METAL DOORS
    - CURRIES COMPANY
    - CECO DOOR PRODUCTS
    - SOUNDPROOF WINDOWS, INC. (ACOUSTIC DOOR)

### 2. INTERIOR WOOD DOORS

- SOLID CORE TYPE: 1 3/4" THICK, FLUSH DESIGN, PLAIN SLICED RED OAK VENEER, 5-PLY PARTICLE BOARD CORE.
- FACE VENEER: PREMIUM GRADE WOOD, PLAIN SLICED RED OAK, BOTH FACES.
- VERTICAL EDGES: HARDWOOD PER AWI STANDARD 1300-S.
- FINISH: FACTORY FINISH PER NWWDA 5 COAT PROCESS, WRAP DOORS INDIVIDUALLY IN POLYBAGS.
- MACHINING: FACTORY PREFIT AND MACHINE FOR SPECIFIED HARDWARE.
- ACCEPTABLE PRODUCTS, OR APPROVED EQUALS: SOLID CORE, FLUSH PANELS; ALGOMA HARDWOODS "PC-5 PB CORE".

### 3. ACOUSTIC HOLLOW METAL DOORS

- HOLLOW CORE TYPE: 1 3/4" THICK, FLUSH PANEL, FABRICATED WITH SMOOTH SURFACES, WITHOUT VISIBLE JOINTS OR SEAMS ON EXPOSED FACES.
- CORE CONSTRUCTION: ACOUSTIC FOAM AND STEEL STIFFENED LAMINATED CORE WITH NO STIFFENER FACE WELDS.
- AGGREGATE ACOUSTIC RATING OF DOOR: MIN. STC 66
- LEVEL/MODEL: LEVEL 2 AND PHYSICAL PERFORMANCE LEVEL A (HEAVY DUTY), MIN. 16 GAUGE THICK STEEL.
- HINGE REINFORCEMENT: MINIMUM 7 GAUGE (5/16") PLATE 1 3/4" X 9".
- HARDWARE REINFORCEMENTS: FABRICATE ACCORDING TO ANSISDI A250.6 WITH REINFORCING PLATES FROM SAME MATERIAL AS DOOR FACE SHEETS.
- GASKETING AND SEALS: PER MANUFACTURER
- ACCEPTABLE PRODUCTS, OR APPROVED EQUAL: SOUNDPROOF WINDOWS, INC., STEEL DOOR MODEL 175C1 WITH FULL VIEW GLASS OPTION.

### 4. HOLLOW METAL WELDED FRAMES

- PROVIDE STANDARD TYPE, FACE WELDED FRAMES DESIGNED TO BE SECURELY INSTALLED IN THE ROUGH OPENING AFTER FINISH WALL MATERIAL IS APPLIED.
  - GENERAL: COMPLY WITH ANSISDI A250.8 AND WITH DETAILS INDICATED FOR TYPE AND PROFILE.
  - FABRICATE FRAMES WITH MITERED OR COPEDED CORNERS.
  - FRAMES: MINIMUM 16 GAUGE THICK STEEL SHEET, PRIMED AND DRILLED FOR RUBBER SILENCERS.
  - SPECIAL ACOUSTIC FRAMES: ACOUSTIC FOAM FILLED IN MANUFACTURER'S STANDARD PROFILES AND GAUGES.
  - ACCEPTABLE PRODUCTS, OR APPROVED EQUAL: CURRIES COMPANY CM SERIES, DRYWALL CONSTRUCTION; SOUNDPROOF WINDOWS, INC MODEL 175C1 DOOR TYPE.
- PREPARE AND INSTALL DOORS FOLLOWING MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS FOR TYPE OF DOOR SPECIFIED.
    - FRAMES TO BE INSTALLED PLUMB, LEVEL, RIGID, AND IN TRUE ALIGNMENT AS RECOMMENDED IN ANSISDI A250.11, RECOMMENDED ERECTION INSTRUCTIONS FOR STEEL FRAMES. ALL FRAMES TO BE FASTENED TO ADJACENT STRUCTURE SO AS TO RETAIN THEIR POSITION AND STABILITY.
    - DOORS TO BE INSTALLED AND FASTENED TO MAINTAIN ALIGNMENT WITH FRAMES TO ACHIEVE MAXIMUM OPERATIONAL EFFECTIVENESS AND APPEARANCE.
    - INSTALLATION OF HARDWARE ITEMS SHALL BE IN ACCORDANCE WITH THE HARDWARE MANUFACTURER'S RECOMMENDATIONS AND TEMPLATES.
  - DOOR HARDWARE TO MATCH STYLE, TYPE AND MANUFACTURER OF EXISTING DOORS UNLESS OTHERWISE NOTED. NEW LOCKS TO BE KEYPED INTO BUILDING MASTER KEY SYSTEM.
    - HINGES GASKETING AND SEALS FOR ACOUSTIC DOOR, PROVIDED BY MANUFACTURER.

### DIVISION 9

FINISHES

- PROVIDE AND INSTALL DRYWALL SYSTEMS AS INDICATED ON THE PLANS TO ACHIEVE THE BUILDING CODE COMPLIANT AND ACOUSTIC ASSEMBLIES REQUIRED TO PRODUCE A COMPLETE FINISHED SYSTEM.
  - ASSEMBLY COMPONENTS CONSIST OF, BUT ARE NOT LIMITED TO THE FOLLOWING:
    - STEEL STUDS & RUNNERS: 3 1/2" WIDE, 20 GAUGE, TYPES 3580WS (STUDS) & 3580WR (RUNNERS) BY U.S. GYPSUM OR EQUAL.
    - STANDARD AND TYPE 'X' GYPSUM BOARD AS MANUFACTURED BY U.S. GYPSUM COMPANY OR APPROVED EQUAL.
    - FASTENINGS: TYPE S H-L-O SCREWS OR MANUFACTURER'S RECOMMENDED.
    - EDGE BEADS: EQUAL TO U.S. GYPSUM #2006.
    - JOINT COMPOUND AND TAPE: PRE-MIXED, FAST SETTING COMPOUND WITH DRYING TIME NOT TO EXCEED 90 MINUTES. PAPER OR SELF-ADHERING FIBER TAPE.
    - CORNER BEADS: EQUAL TO U.S. GYPSUM DURA-BEAD.
    - MISCELLANEOUS: 3/4" METAL FURRING CHANNELS BY U.S. GYPSUM OR EQUAL, RESILIENT SOUND ISOLATION CLIPS, MODEL ISOCM4 BY KINETICS NOISE CONTROL OR EQUAL, NOISE CONTROL FASTENING CLIPS, MODEL RSIC-DC04 BY PAC INTERNATIONAL, LLC, OR EQUAL AND 8 GAUGE GALVANIZED HANGER WIRE BY U.S. GYPSUM OR EQUAL.
- PROVIDE AND INSTALL, IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, THE ACOUSTIC LAY-IN CEILING SYSTEM AS NOTED ON THE PLANS.
  - SYSTEM CONSIST OF THE FOLLOWING:
    - LAY-IN TILE: WET CUT MINERAL FIBER
    - SIZE: 24" X 24" X 3/4"
    - EDGE: SQUARE
    - NRC: 0.80
    - GRID: PRELUDE 3/8" SUSPENSION SYSTEM BY ARMSTRONG OR APPROVED EQUAL.
    - TYPE: ULTIMA HIGH NRC (FINE TEXTURE), MODEL 1940 BY ARMSTRONG OR EQUAL.
    - COLOR: WHITE
- PROVIDE AND INSTALL, IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, RESILIENT FLOORING AS NOTED ON THE PLANS.
  - STATIC DISSIPATING VCT: 12" X 12" X 3/8" THICK VINYL COMPOSITION TILE WITH ANTI-STATIC ADDITIVES.
  - TYPE: S195S SDT AS MANUFACTURED BY ARMSTRONG OR APPROVED EQUAL.
  - COLOR: AS SELECTED BY OWNER FROM MANUFACTURER'S AVAILABLE CHOICES.
  - INSTALLATION ACCESSORIES: S-202 SDT ADHESIVE, COPPER GROUNDING STRIPS AND S-392 SDT POLISH BY ARMSTRONG OR APPROVED EQUAL.
  - BASE: 4" HIGH X 3/4" THICK RUBBER, VINYL COVE, COLOR AS SELECTED BY OWNER FROM MANUFACTURER'S AVAILABLE CHOICES.
- APPLY PAINT FINISHES TO NEW AND EXISTING CONSTRUCTION AS NOTED IN THE ROOM FINISH SCHEDULE. INSPECT ALL SURFACES PRIOR TO THE START OF PAINTING. NOTIFY THE ARCHITECT OF ANY CONDITIONS THAT MAY ADVERSELY AFFECT THE QUALITY OF THE FINISHED WORK.
  - DRYWALL: (2)-COATS PRATT & LAMBERT FLAT RED SEAL, SELF-PRIMING INTERIOR WATERBORNE; Z2000 SERIES PRIMER, (2)-COATS SHERWIN WILLIAMS "HARMONY" INTERIOR ACRYLIC LATEX, EGGSHELL FINISH.
  - METAL: (1)-COAT PRATT & LAMBERT Z1001 INTERIOR/EXTERIOR WATERBORNE PRIMER, (1)-COAT PRATT & LAMBERT ACRYLIC PRE CAT EPOXY EGGSHELL.
  - COLORS: AS SELECTED BY OWNER FROM MANUFACTURER'S AVAILABLE CHOICES.

JTAI

JOHN TAGLE ASSOCIATES, INC.  
ARCHITECTS & PLANNERS

5455 Corporate Drive Suite 303  
Troy, Michigan 48068-8889  
Tel: 248-541-9000  
Fax: 248-541-9001  
Web: www.jtai.net

All ideas, designs, arrangements and plans indicated or represented by this drawing are the property of John Tagle Associates Architects & Planners and were created, evolved and developed for the use as and in connection with the specific project. None of these ideas, arrangements or plans shall be used by or distributed to any person, firm or corporation for any purpose whatsoever without the written permission of John Tagle Associates Architects & Planners.

PROJECT:

CITY OF  
NOVI VIDEO  
STUDIO

INTERIOR  
MODIFICATIONS

45175 W 10 Mile Rd  
Novi, MI 48375

SHEET:

GENERAL NOTES  
&  
SPECIFICATIONS

ISSUE / REVISION:

OWNER REVIEW 04/22/2016

PERMIT SET 04/29/2016

DRAWN BY:

CWP

REVIEWED BY:

JT

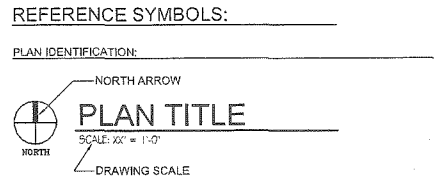
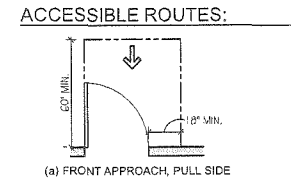
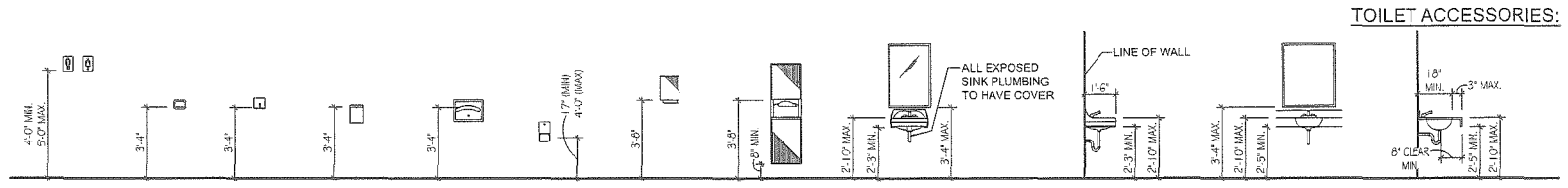
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PROJECT:  
**CITY OF NOVI VIDEO STUDIO**

INTERIOR MODIFICATIONS

45175 W 10 Mile Rd  
Novi, MI 48375

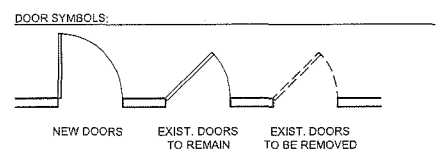
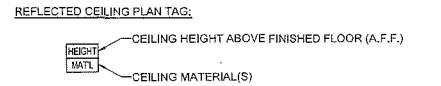
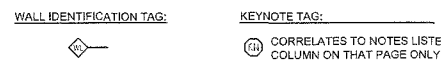
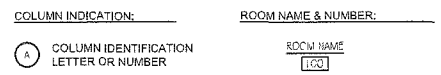
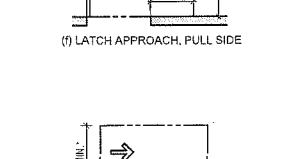
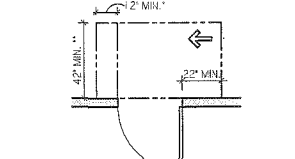
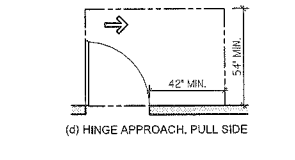
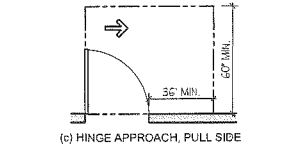
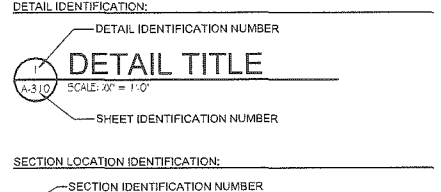
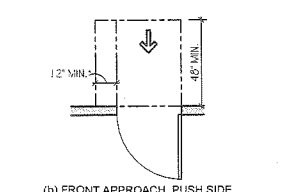
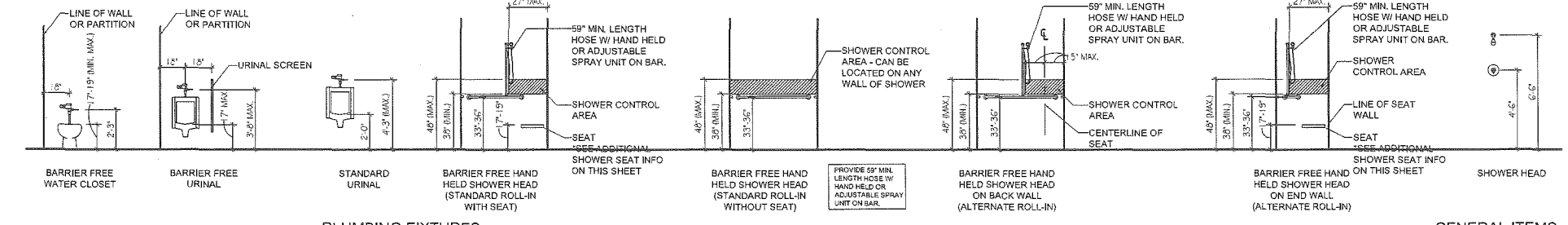
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ISSUE / REVISION:

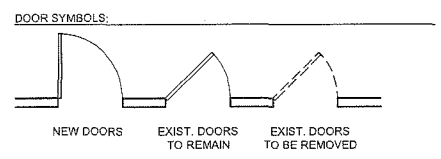
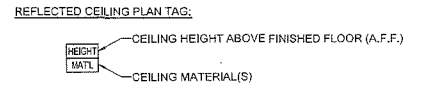
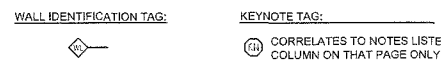
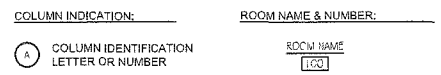
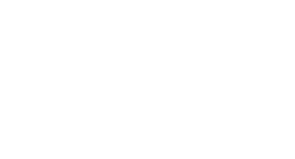
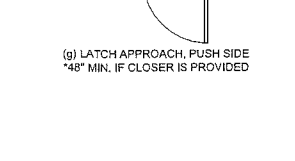
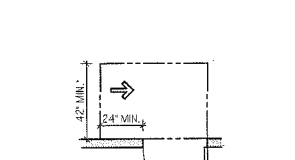
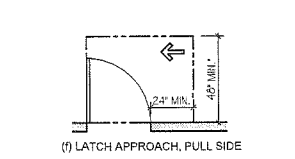
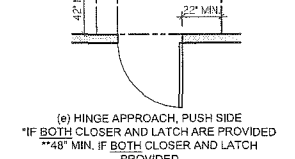
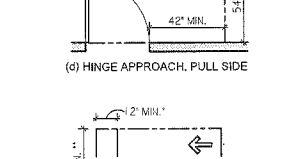
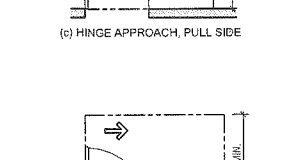
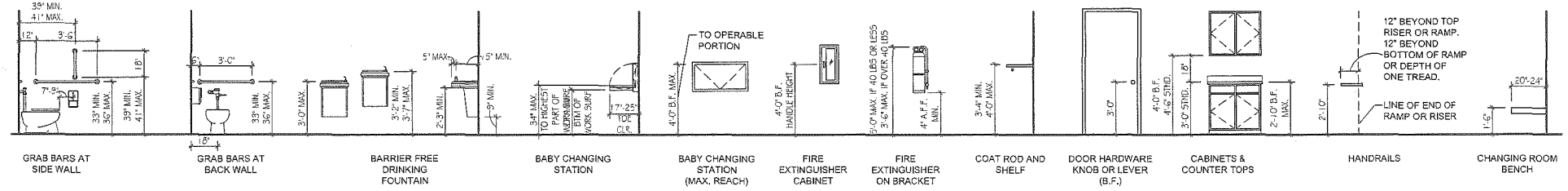
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JT

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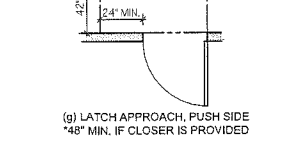
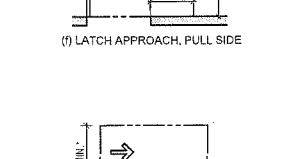
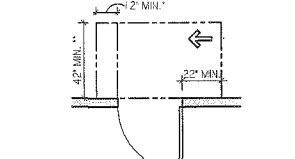
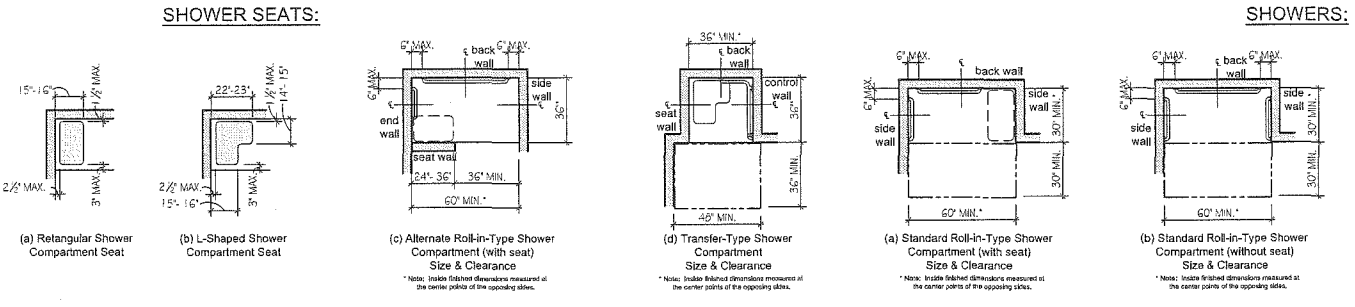
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**ABBREVIATIONS:**

|          |                                      |          |                             |
|----------|--------------------------------------|----------|-----------------------------|
| ABV.     | ABOVE                                | LAM.     | LAMINATE                    |
| AC       | AIR CONDITIONING                     | LAV.     | LAVATORY                    |
| ACT      | ADJUSTABLE CEILING TILE              | L.F.     | LOW POINT OR LIGHTING PANEL |
| ADD      | ADDENDUM OR ADDITIONAL               | LT       | LIGHT                       |
| A.F.F.   | ABOVE FINISHED FLOOR                 | LTG      | LIGHTING                    |
| ALUM.    | ALUMINUM                             | MATL.    | MATERIAL                    |
| ALT.     | ALTERNATE                            | MAX.     | MAXIMUM                     |
| ANCD.    | ANNODED                              | MCH.     | MECHANICAL                  |
| APA      | AMERICAN PLYWOOD ASSOCIATION         | MFR.     | MANUFACTURER(S)             |
| ARCH.    | ARCHITECTURAL                        | MIN.     | MINIMUM                     |
| ASPH     | ASPHALT                              | M.O.     | MASCHORY OPENING            |
| @        | AT                                   | MTD.     | MOUNTED                     |
| BD.      | BOARD                                | MFG.     | MOUNTING                    |
| BKG.     | BEARING                              | MTL.     | METAL                       |
| B.F.     | BARrier FREE                         | N.A.     | NOT APPLICABLE              |
| BUDG.    | BUILDING                             | N.I.C.   | NOT IN CONTRACT             |
| BM.      | BEAM                                 | NOV.     | NOVEMBER                    |
| B.O.     | BOTTOM OF                            | N.T.S.   | NOT TO SCALE                |
| B.F.L.   | BASE PLATE OR BEARING PLATE          | O.C.     | ON CENTER(S)                |
| CAB.     | CABINET                              | O.D.     | OUTSIDE DIMENSION/DIAMETER  |
| C.B.     | CATCH BASIN                          | OPNG.    | OPENING                     |
| CJ       | CONTROL JOINT                        | OP. IND. | OPER. INDICATOR             |
| CLG.     | CEILING                              | PL.      | PLATE                       |
| CMU      | CONCRETE MASONRY UNIT                | P. LAM.  | PLASTIC LAMINATE            |
| COL.     | COLUMN                               | PLYWD.   | PLYWOOD                     |
| CONT.    | CONTINUOUS OR CONTRA                 | PTD.     | PAINTED                     |
| CPT.     | CARPET                               | R.       | RISER                       |
| COORD.   | COORDINATE                           | RA       | RETURN AIR                  |
| CONC.    | CONCRETE                             | RAD.     | RADIUS                      |
| COBR.    | CORRIDOR OR CORRUGATED               | RD       | ROOF DRAIN                  |
| DET.     | DETAIL                               | RCC      | RECESSED                    |
| D.F.     | DRINKING FOUNTAIN                    | REF.     | REFRIGERATOR                |
| DIA.     | DIAMETER                             | REFL.    | REFLECTED, (INCL. (CR)      |
| DM.      | DIMENSION                            | RENF.    | REINFORCED, (ING)           |
| DW.      | DISHWASHER                           | REQD.    | REQUIRED                    |
| DWG.     | DRAWING                              | REV.     | REVISED/REVISION            |
| EA.      | EACH                                 | RM.      | ROOM                        |
| E.J.     | EXPANSION JOINT                      | R.O.     | ROUGH OPENING               |
| ELEC.    | ELECTRICAL                           | RS       | ROOF SUMP                   |
| E.P.     | ELECTRICAL PANEL                     | SA       | SUPPLY AIR                  |
| EQU.     | EQUAL                                | SAN.     | SANITARY                    |
| EQUIP.   | EQUIPMENT                            | S.C.     | SEALED CONCRETE             |
| EW.      | ELECTRIC WATER COOLER                | SD       | STORM DRAIN                 |
| EXST.    | EXISTING                             | S.F.     | SQUARE FOOT/ FEET           |
| EXT.     | EXTERIOR                             | SHT.     | SHEET                       |
| FD.      | FLOOR DRAIN                          | SM.      | SIMILAR                     |
| FE.      | FIRE EXTINGUISHER                    | SPK.     | SPEAKER                     |
| FLR.     | FLOOR                                | SRV.     | SERVICE SINK                |
| FLUOR.   | FLUORESCENT                          | SSL.     | STAINLESS STEEL             |
| FRT.     | FIRE-RETARDANT TREATED WOOD          | STC.     | SOUND TRANSMISSION CLASS    |
| FT.      | FEET / FOOT                          | STL.     | STEEL                       |
| FTG.     | FOOTING                              | SUSP.    | SUSPENDED                   |
| GA.      | GAUGE                                | T.       | TREAD                       |
| GAUV.    | GROUND FAULT CIRCUIT INTERRUPTER     | T + B    | TOP / BOTTOM                |
| GFCI     | GROUND FAULT CIRCUIT INTERRUPTER     | T + G    | TONGUE / GROOVE             |
| GL.      | GLASS, GLAZING                       | T.O.P.   | TOP OF                      |
| GYP. BD. | GYP. BOARD                           | TRANS.   | TRANSFORMER                 |
| H.C.     | HANDICAPPED OR HOLLOW CORE           | TYP.     | TYPICAL                     |
| HM.      | HOLLOW METAL                         | UN.O.    | UNLESS NOTED OTHERWISE      |
| H.P.     | HIGH POINT                           | VB       | VAPOR BARRIER               |
| H.T.     | HITCH                                | VCT.     | VINYL COMPOSITION TILE      |
| HVAC.    | HEATING VENTILATION AIR CONDITIONING | VEST.    | VESTIBULE                   |
| HYD.     | HYDRANT                              | VWC.     | VINYL WALL COVERING         |
| I.D.     | INSIDE DIMENSION/DIAMETER            | V.V.F.   | VENNY IN FIELD              |
| IN.      | INCHES                               | W.       | WITH                        |
| INCL.    | INCLUDED, (ING)                      | W/O.     | WITHOUT                     |
| INSUL.   | INSULATION                           | WC.      | WATER CLOSET                |
| INT.     | INTERIOR / INTERNAL                  | WD.      | WOOD                        |
| J.B.     | JUNCTION BOX                         | WH.      | WATER HEATER                |
| J.C.     | JANITOR CLOSET                       | WM.      | WATER MAIN                  |
| JST.     | JOIST                                | WWF.     | WIRE WELDED FABRIC          |
| JT.      | JOINT                                | WWM.     | WIRE WELDED MESH            |
| KIT.     | KITCHEN                              | YD.      | YARD                        |



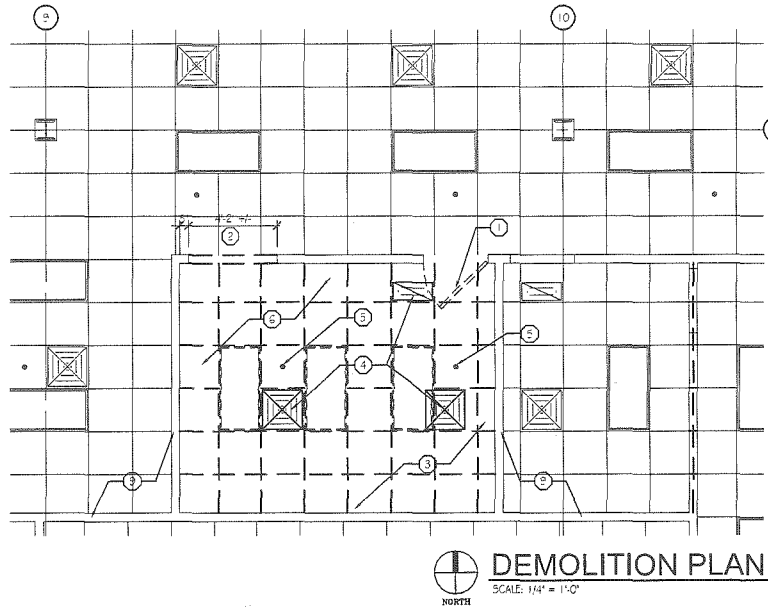
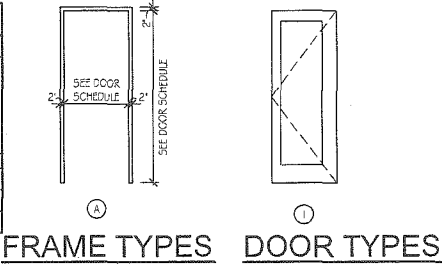
**MATERIALS LEGEND:**

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| ROOM FINISH SCHEDULE |                |          |      |            |           |            |           |           |                      |                  |      |          |      |         |     |
|----------------------|----------------|----------|------|------------|-----------|------------|-----------|-----------|----------------------|------------------|------|----------|------|---------|-----|
| RM. NO.              | TITLE          | FLOOR    | BASE | NORTH WALL | EAST WALL | SOUTH WALL | WEST WALL | CEILING   | SPECIAL FINISH NOTES |                  |      |          |      | RM. NO. |     |
|                      |                | MATERIAL | CODE | MATERIAL   | CODE      | MATERIAL   | CODE      | MATERIAL  | CODE                 | MATERIAL         | CODE | MATERIAL | CODE |         |     |
| 100                  | VIDEO STUDIO   | VCT      | F1   | VB         | B1        | PNT. GYP.  | W1        | PNT. GYP. | W1                   | PNT. GYP.        | W1   | ACT      | C-1  | 1, 2    | 100 |
| 101                  | EQUIPMENT ROOM | EXIST.   | -    | EXIST./VB  | B1        | EXIST.     | -         | PNT. GYP. | W1                   | EXIST.           | -    | EXIST.   | -    | -       | 101 |
| 102                  | EDIT BAY       | EXIST.   | -    | VB         | B1        | -          | -         | -         | -                    | EXIST./PNT. GYP. | W1   | -        | -    | -       | 102 |

| ROOM FINISH & COLOR SCHEDULE LEGEND: |                            | GENERAL FINISH NOTES:   |   | MATERIAL FINISH & COLOR CODE: |  | CEILING FINISHES      |  |                         |   |
|--------------------------------------|----------------------------|---|---|-------------------------------|--|-----------------------|--|-------------------------|---|
| <b>FLOORING</b>                      | VCT - VINYL COMPOSITE TILE | <b>WALLS</b>  | GYP - GYPSUM BOARD<br>EXIST - EXISTING TO REMAIN (TO BE CLEANED)            | <b>FLOOR MATERIALS</b>        | F1: VCT<br>MFR: -<br>PRODUCT: -<br>COLOR: -<br>SIZE: -   | <b>WALL MATERIALS</b> | B1: VINYL WALL BASE<br>MFR: ARMSTRONG<br>PRODUCT: COLOR INTEGRATED VINYL BASE<br>COLOR: MATCH EXISTING<br>SIZE: 4" X 12" | <b>CEILING FINISHES</b> | C-1: LAY-IN ACOUSTICAL CEILING TILE<br>MFR: ARMSTRONG<br>PRODUCT: ULTIMA HIGH HRC<br>COLOR: WHITE<br>SIZE: 24" X 48" X 3/4"<br>EDGE: STRAIGHT |
| <b>BASE</b>                          | VB - VINYL WALL BASE       | <b>CEILING</b>  | ACT - ACOUSTICAL CEILING TILE<br>EXIST - EXISTING TO REMAIN (TO BE CLEANED) | <b>SPECIAL FINISH NOTES:</b>  | W1: PAINT<br>T1: PRATT & LAMBERT<br>MFR: -<br>COLOR: MATCH EXISTING ADJACENT # AS SELECTED BY OWNER<br>FINISH: EGG SHELL |                       |  |                         |   |
|                                      |                            | 1. PROVIDE PAINT DRAW-DOWN SAMPLES FOR APPROVAL.                |   |                               |  |                       |  |                         |   |
|                                      |                            | 2. PROVIDE ACOUSTICAL CEILING TILE 4 GRID SAMPLES FOR APPROVAL. |   |                               |  |                       |  |                         |   |
|                                      |                            | 3. PROVIDE VCT & VINYL BASE SAMPLES FOR APPROVAL.               |   |                               |  |                       |  |                         |   |
|                                      |                            | 4. PAINT FINISH ON INTERIOR WALLS TO BE EGG SHELL.              |   |                               |  |                       |  |                         |   |
|                                      |                            | 5. PAINT HOLLOW METAL DOOR FRAMES - WX                          |   |                               |  |                       |  |                         |   |
|                                      |                            | 1. STATIC DISSIPATING FLOORING TO PROTECT ELECTRONIC EQUIPMENT. |   |                               |  |                       |  |                         |   |
|                                      |                            | 2. ANTI-STATIC VCT TO BE GROUNDED.                              |   |                               |  |                       |  |                         |   |

| DOOR SCHEDULE |               |       |           |             |          |         |         |      |      |           |        |             |  |      |
|---------------|---------------|-------|-----------|-------------|----------|---------|---------|------|------|-----------|--------|-------------|--|------|
| DOOR NO.      | DOOR          | FRAME | REMARKS   |             | DOOR NO. |         |         |      |      |           |        |             |  |      |
|               | DOOR SIZE     | TYPE  | THICKNESS | MATERIAL    | FINISH   | HEAD    | JAMB    | SILL | TYPE | MATERIAL  | FINISH | FIRE RATING | HARDWARE SET   |      |
| 100           | 3'-0" x 7'-0" | I     | 1 1/2"    | INVL. STEEL | PAINT    | 1/A-200 | 6/A-200 | -    | A    | INS. STL. | PAINT  | -           | FINISH FROM DOOR & FRAME SPEC. BY PER. SOUND PROOF ANALYSIS, INC. BUDD 175CL WITH FULL VIEW GLASS OPTION | 100  |
| 101A          | EXISTING      |       |           |             |          |         |         |      |      |           |        |             |  | 101A |
| 101B          | EXISTING      |       |           |             |          |         |         |      |      |           |        |             |  | 101B |



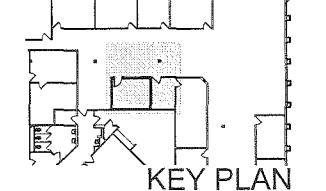
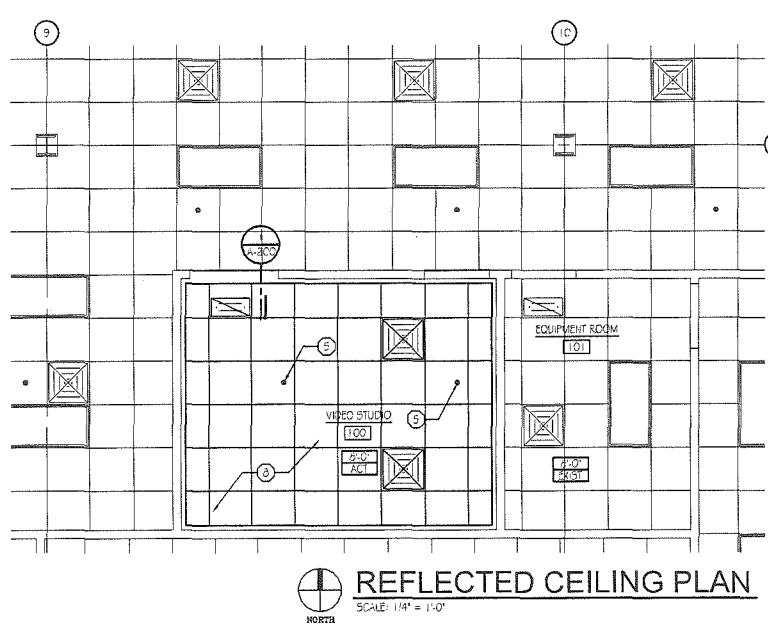
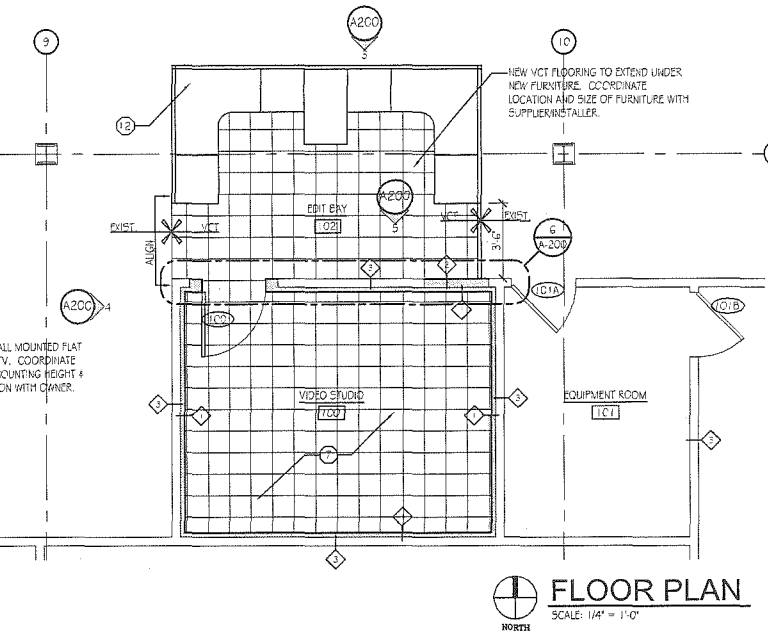
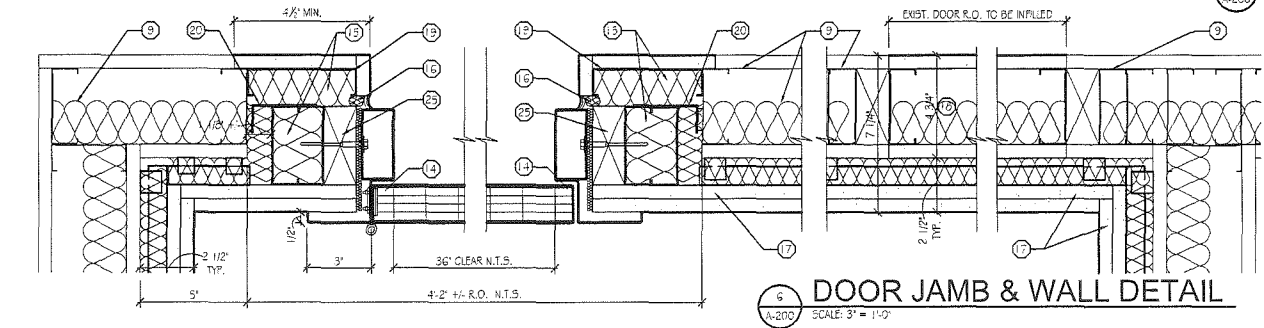
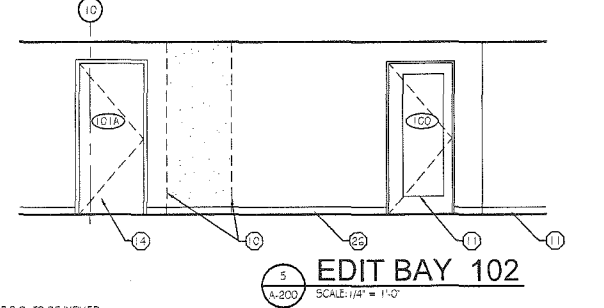
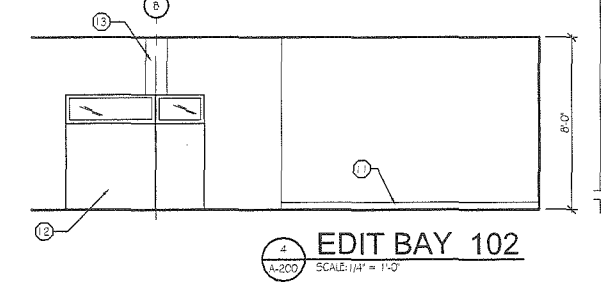
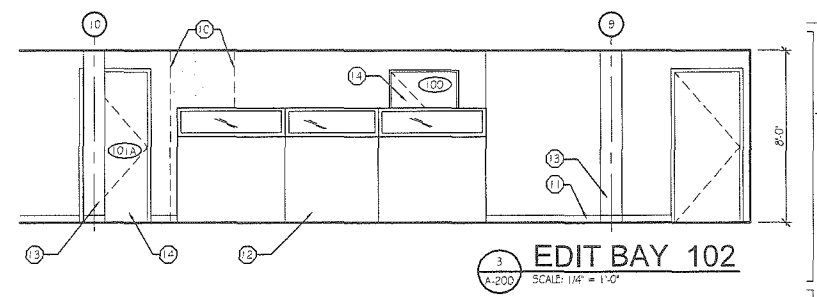
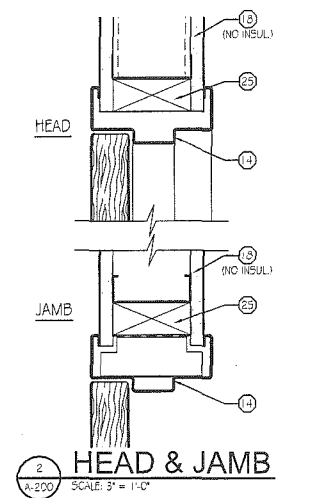
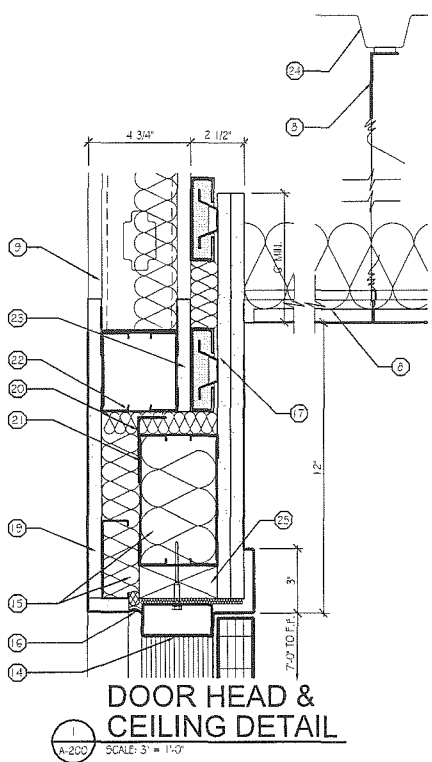
- DEMOLITION NOTES:**
- CONTRACTOR SHALL NOTIFY ARCHITECT, PRIOR TO CONSTRUCTION OF AFFECTED AREAS. IF FIELD CONDITIONS VARY FROM WHAT IS INDICATED.
  - PROVIDE TEMPORARY BARRIERS; DUST PARTITIONS AS REQUIRED.
  - WHERE WALLS, FIXTURES, ETC. HAVE BEEN REMOVED, PREPARE REMAINING CONSTRUCTION TO RECEIVE NEW FINISHES.
  - REMOVE ALL UNUSED / ABANDONED WIRES, CONDUITS, CABLES, TUBES, ETC.

- ARCHITECTURAL NOTES:**
- CONTRACTOR SHALL NOTIFY ARCHITECT, PRIOR TO CONSTRUCTION OF AFFECTED AREAS. IF FIELD CONDITIONS VARY FROM WHAT IS INDICATED.
  - DIMENSIONS GIVEN ARE FROM FACE OF FINISH MATERIAL TO FACE OF FINISH MATERIAL UNLESS NOTED OTHERWISE.
  - PROVIDE AND INSTALL SOLID BLOCKING IN WALLS AS REQUIRED FOR MILLWORK.

- WALL TYPE LEGEND:**
- (2) LAYERS 3/8" TYPE X GYP. BD. ON 3/4" FLOORING CHANNELS @ 24" O.C. VERT. SECURED TO EXISTING WALL CONSTRUCTION. EXTEND 6" ABOVE CEILING LINE.
  - 3/4" GYP. BD. ON BOTH SIDES OF 3/4" METAL STUD FRAMING @ 24" O.C. WITH 2" MIN. SOUND ATTENUATION INSULATION. OVERALL WIDTH: 4 3/4"
  - EXISTING WALL CONSTRUCTION TO REMAIN.
  - 3/4" GYP. BD. ON BOTH SIDES OF 3/4" METAL STUD FRAMING @ 24" O.C. OVERALL WIDTH: 4 3/4"

- REFLECTED CEILING LEGEND:**
- 2x2 RECESSED LED LIGHT FIXTURE
  - SPRINKLER HEAD
  - SUPPLY AIR DIFFUSER
  - RETURN AIR DIFFUSER
  - SUSPENDED LAY-IN CEILING GRID WITH NEW TILES. CENTER GRID IN ROOM. REFER TO DETAILS FOR MORE INFORMATION.

- KEY NOTE LEGEND:**
- EXISTING DOOR AND FRAME TO BE REMOVED.
  - REMOVE EXISTING WALL CONSTRUCTION AS REQUIRED TO ACCEPT NEW ACOUSTIC DOOR.
  - REMOVE EXIST. LAY-IN CEILING TILE, GRID, AND LIGHT FIXTURES.
  - EXISTING MECHANICAL DIFFUSERS TO BE REMOVED. REFER TO MECHANICAL DRAWINGS FOR MORE INFORMATION.
  - EXISTING FIRE SPRINKLERS TO REMAIN.
  - REMOVE EXISTING FLOORING. PREPARE SUB-FLOOR FOR INSTALLATION OF NEW VINYL COMPOSITE TILE.
  - NEW ANTI-STATIC VINYL COMPOSITE TILE IN VIDEO STUDIO. REFER TO ROOM FINISH SCHEDULE FOR MORE INFORMATION.
  - 2x2 LAY-IN ACOUSTICAL CEILING TILE PER ARMSTRONG MODEL ULTIMA HIGH HRC (HRC 0.80) WITH 4" ACOUSTIC BATT INSUL PER ASH STOREFRONT TYPE BASS BUSTOR (HRC 1.15)
  - EXISTING WALL CONSTRUCTION TO REMAIN.
  - LINE WHERE EXISTING GYP. MEETS NEW.
  - EXISTING VINYL WALL BASE
  - EXISTING COLUMN
  - DOOR AND FRAME AS SCHEDULED
  - FILL Voids WITH ACOUSTICAL BATT INSULATION
  - SEALANT WITH BACKER ROD ALL AROUND OPENING
  - (2) LAYERS OF TYPE X 3/8" GYP. BD. ON 3/4" FLOORING CHANNELS @ 24" O.C. VERT. SECURED TO EXISTING WALL CONSTRUCTION. EXTEND 6" ABOVE CEILING LINE.
  - 3/4" GYP. BD. ON BOTH SIDES OF 3/4" METAL STUDS @ 16" O.C. WITH ACOUSTICAL BATT INSULATION (D.70 HRC)
  - NEW 3/4" GYP. BD. IN NEW METAL STUD FRAMING SECURED TO EXISTING FRAMING.
  - ACOUSTIC DECOUPLING HANGER BRACKET PER PAC INTERNATIONAL MODEL R80000S.
  - NEW METAL STUD BOX BEAM AT DOOR HEAD MADE OF 6" METAL STUDS AND 3/8" TOP AND BOTTOM TRACK.
  - NEW METAL STUD BOX BEAM MADE OF 3 1/2" METAL STUDS AND 3/8" TOP AND BOTTOM TRACKS TO SUPPORT EXISTING FRAMING @ NEW OPENING.
  - NEW 3/4" GYP. BD. AS REQUIRED AT NEW OPENING OF EXIST. WALL TO ALLOW SECURING OF SOUND ISOLATION CLIPS
  - EXISTING METAL ROOF DECK
  - NON-COMB. 2x4 BLOCKING
  - NEW VINYL BASE TO MATCH EXISTING # AS SELECTED BY OWNER.



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PROJECT:  
**CITY OF NOVI VIDEO STUDIO**  
45175 W 10 Mile Rd  
Novi, MI 48375

SHEET:  
**PLANS, DETAILS, & SCHEDULES**

ISSUE / REVISION:

OWNER REVIEW: 04/22/2016  
PERMIT SET: 04/28/2016

DRAWN BY:  
CMP  
REVIEWED BY:  
JT

JTAI FILE NO.  
16.06  
DRAWING NO.  
**A-200**

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**PROJECT:**  
**CITY OF NOVI VIDEO STUDIO**

**INTERIOR MODIFICATIONS**

45175 W 10 Mile Rd  
 Novi, MI 48375

**COVER SHEET & SPECIFICATIONS**

ISSUE / REVISION:

|          |                |
|----------|----------------|
| 04.18.16 | REVIEW         |
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| 04.29.16 | PERMIT SET     |

DRAWN BY:

F.D

REVIEWED BY:  
 F.D

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DRAWING NO.

**M-100**

**23 05 93 TESTING, ADJUSTING, AND BALANCING**

1. THE MECHANICAL CONTRACTOR SHALL SUBCONTRACT A TEST AND BALANCE CONTRACTOR TO BALANCE THE SYSTEMS DESCRIBED BELOW.
2. THE BALANCING SHALL BE COMPLETED BY AN INDEPENDENT TEST AND BALANCE CONTRACTOR WHO IS NOT AN EMPLOYEE OF THE MECHANICAL CONTRACTOR.
3. PER COMPLIANCE WITH ASHRAE 90.1-2007, THE BALANCER SHALL SUBMIT AN AIR BALANCE REPORT TO THE ENGINEER AND STATE OR COUNTY INSPECTOR.
4. THE BALANCE REPORT SHALL SHOW PROOF THAT THE SYSTEM HAS BEEN BALANCED TO +/- 10% OF THE DESIGNED FLOW RATE. IT IS THE MECHANICAL CONTRACTOR AND TEST AND BALANCER'S DUTY TO PROVIDE ACCURATE DATA, SO AREAS OF INCORRECT FLOW MAY BE DISCLOSED TO THE ENGINEER, INSPECTOR, AND OWNER.
5. ALL AIRSIDE SYSTEMS, COMPONENTS, ETC. INCLUDING SUPPLY, RETURN, OUTDOOR, AND EXHAUST AIR SYSTEMS SHALL BE BALANCED. THE BALANCER SHALL PROVIDE SHEAVES AND BELTS AS NEEDED TO PROPERLY BALANCE EQUIPMENT TO +/- 10% OF THE DESIGNED AIRFLOWS.
  - 5.1. ALL DIFFUSERS, REGISTERS, GRILLES, AND LOUVERS SHALL BE INDIVIDUALLY BALANCED AND LISTED IN THE BALANCE REPORT.
  - 5.2. ALL AIRSIDE EQUIPMENT, SUPPLY, RETURN, AND OUTDOOR AIR FLOWRATES SHALL BE LISTED IN THE BALANCE REPORT.
6. ALL HVAC MOTOR DATA INCLUDING FREQUENCY (RPM), AMP DRAW, HORSEPOWER, EXTERNAL STATIC PRESSURE, HEAD PRESSURE, ETC., SHALL BE INCLUDED IN THE BALANCE REPORT.

**23 07 13 DUCT INSULATION**

1. ALL DUCTWORK SHALL BE INSULATED PER ASHRAE 90.1-2007 TABLE 6.8.2.B.
  - 1.1. MINIMUM SUPPLY AIR DUCT INSULATION: NONE REQUIRED.
  - 1.2. MINIMUM RETURN AIR DUCT INSULATION: NONE REQUIRED.
  - 1.3. MINIMUM EXHAUST AIR DUCT INSULATION: NONE REQUIRED.
2. WHERE DESIGNATED, SUPPLY AND RETURN AIR DUCTWORK SHALL BE LINED WITH 1" ACOUSTICAL DUCT LINER. OVERSIZE DUCTWORK AS REQUIRED AS DIMENSIONS SHOWN ON PLAN ARE INTERIOR DUCT DIMENSIONS!!!
3. ALL INSULATION MATERIALS TO

**23 09 00 INSTRUMENTATION AND CONTROL FOR HVAC**

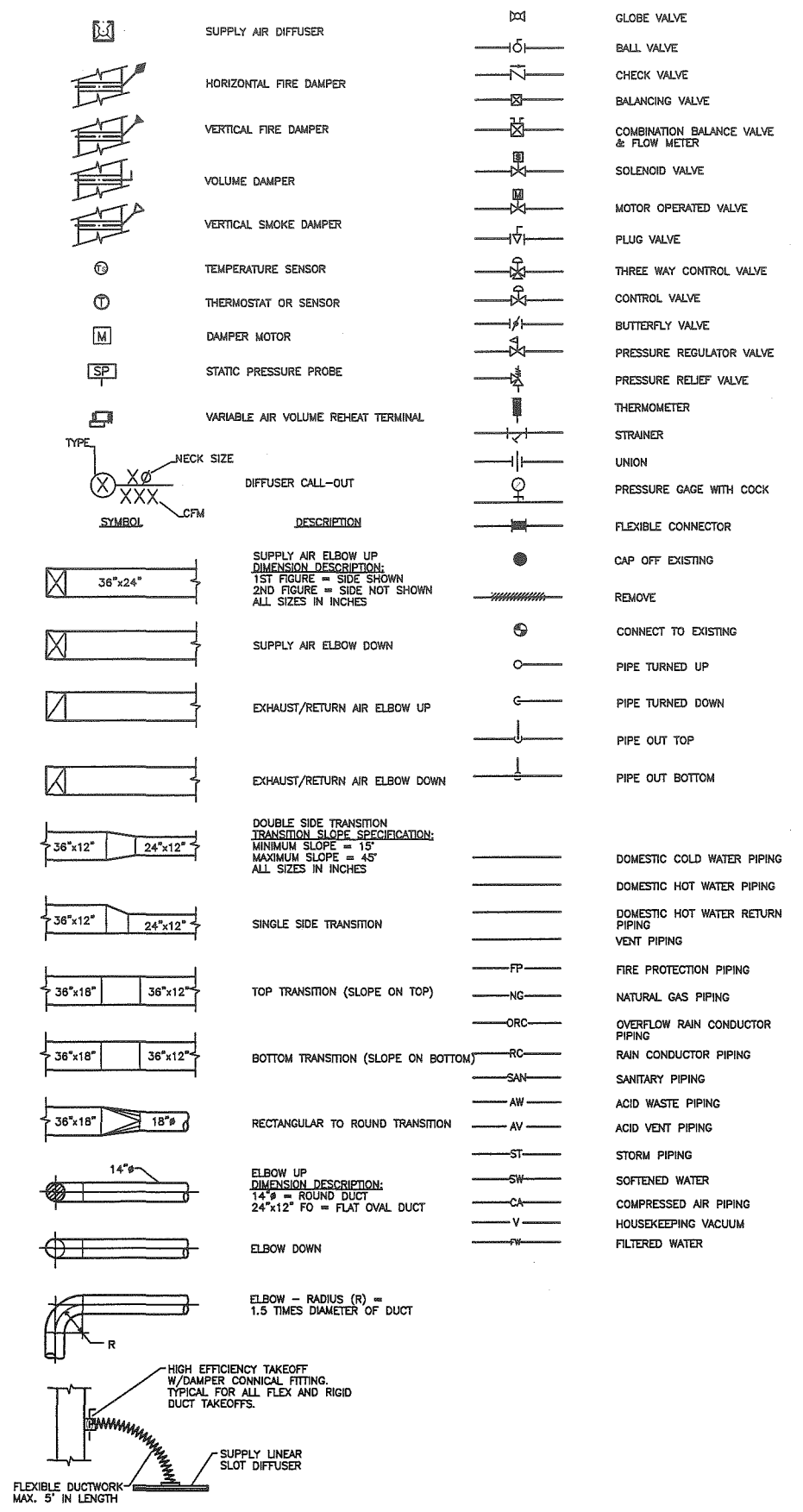
1. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL NECESSARY THERMOSTATS, CONTROL RELAYS, SENSORS, CONTROL WIRING, DAMPERS, ACTUATORS, ETC., REQUIRED TO PROVIDE A FULLY OPERATIONAL HVAC SYSTEM.
2. THE THERMOSTAT SHALL BE DIGITAL-ELECTRONIC, WITH BACKLIT LCD DISPLAY, 7-DAY PROGRAMMABLE, WITH PROGRAMMABLE OCCUPIED AND UNOCCUPIED "CONTINUOUS FAN" AND "AUTO FAN" FUNCTIONALITY, 2-STAGE HEAT, 2-STAGE COOLING.
3. THE FURNACE(S) AND CONDENSING UNIT(S) SHALL ALL UTILIZE THERMOSTAT CONTROL SYSTEM FURNISHED AS PART OF THE UNIT(S), OR SPECIFIED TO BE PROVIDED AS OPTIONS OR ACCESSORIES BY THE MANUFACTURER OF THE UNIT(S). ALL WIRING WILL BE DONE IN ACCORDANCE WITH APPROVED SHOP DRAWINGS FURNISHED BY THE MANUFACTURER.

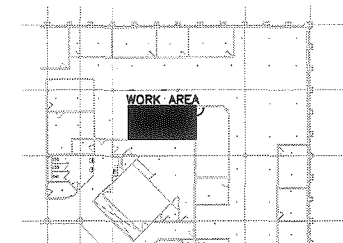
**23 31 00 HVAC DUCTS AND CASINGS**

1. ALL DUCTWORK SHALL BE FABRICATED AND INSTALLED IN COMPLIANCE WITH 2012 M.M.C. CHAPTER 6, AND SMACNA HVAC DUCT CONSTRUCTION STANDARDS. ALL DUCTWORK SHALL BE SEALED AND INSULATED IN ACCORDANCE WITH ASHRAE 90.1-2007.
2. DUCTWORK SHALL BE GALVANIZED STEEL FOR DUCTS: HOT-DIPPED GALVANIZED STEEL SHEET, ASTM A653/A653M F5 TYPE B, WITH G60/Z180 COATING.
3. JOINTS SEALERS AND SEALANTS: NON-HARDENING, WATER RESISTANT, MILDEW AND MOLD RESISTANT.
  - 3.1. TYPE: HEAVY MASTIC OR LIQUID USED ALONE OR WITH TAPE, SUITABLE FOR JOINT CONFIGURATION AND COMPATIBLE WITH SUBSTRATES, AND RECOMMENDED BY MANUFACTURER FOR PRESSURE CLASS OF DUCTS.
  - 3.2. SURFACE BURNING CHARACTERISTICS: FLAME SPREAD OF ZERO, SMOKE DEVELOPED OF ZERO, WHEN TESTED IN ACCORDANCE WITH ASTM E84.
4. HANGER ROD: ASTM A36/A36M; STEEL, GALVANIZED; THREADED BOTH ENDS, THREADED ONE END, OR CONTINUOUSLY THREADED.
5. ROUND FLEX DUCT SHALL BE USED FOR DIFFUSER-GRILLE CONNECTIONS ABOVE LAY-IN CEILINGS. FLEX DUCT MAY BE USED IN OTHER AREAS WHERE THE DUCT AND GRILLE ARE PERMANENTLY AND REASONABLY ACCESSIBLE. MAXIMUM FLEX DUCT LENGTH IS 6'-0". PERFORMANCE OF FLEXIBLE DUCT SHALL MEET OR EXCEED THE RIGID DUCTWORK.
6. UNLESS OTHERWISE NOTED ON PLANS, ALL SUPPLY AND RETURN DUCTWORK LOCATED WITHIN TEN (10) FEET OF THE EQUIPMENT FAN SHALL BE LINED WITH 1" ACOUSTICAL DUCT LINER. DUCT DIMENSIONS SHOWN ON MECHANICAL PLANS ARE INTERIOR DIMENSIONS.
7. ALL DUCT LINER SHALL HAVE A FLAME SPREAD AND SMOKE DEVELOPMENT 25 OR LESS AND 50 OR LESS WHEN TESTED BY ASTM E-84 (NFPA 255) METHOD.

**23 00 00 BASIC MECHANICAL REQUIREMENTS**

1. ALL WORK TO BE DONE AND MATERIALS FURNISHED COMPLYING WITH APPLICABLE LAWS AND REGULATIONS, INCLUDING THE 2012 MICHIGAN MECHANICAL CODE (M.M.C.), ASHRAE 90.1-2007 "ENERGY STANDARDS FOR BUILDINGS EXCEPT LOW-RISE RESIDENTIAL BUILDINGS", ASHRAE 62.1-2007 VENTILATION FOR ACCEPTABLE INDOOR AIR QUALITY", 2012 INTERNATIONAL PLUMBING CODE (M.P.C.), CURRENTLY ENFORCED MICHIGAN BUILDING CODE (M.B.C.), AND LOCAL, STATE, AND FEDERAL FIRE SAFETY CODES (NFPA).
2. ALL MATERIALS USED SHALL BE NEW AND UNDAMAGED.
3. ALL WORK PERFORMED SHALL BE IN ACCORDANCE WITH CURRENT CONSTRUCTION INDUSTRY STANDARDS AND WORKMANSHIP.
4. CONTRACTOR TO PROVIDE ACCESS DOORS (RATED OR NON-RATED AS REQUIRED) WHERE VALVES OR EQUIPMENT ARE CONCEALED BEHIND A NON-ACCESSIBLE CEILING OR WALL.
5. FURNISH STEEL SLEEVES WHERE PIPES PENETRATE RATED WALLS. PROVIDE FIRESTOPPING MATERIALS AND SYSTEM TO MAINTAIN THE REQUIRED RATING OF THE WALL, PENETRATED. PROVIDE SHOP DRAWINGS SHOWING LISTING AND RATING OF FIRESTOPPING MATERIALS.
6. ALL MANUFACTURED EQUIPMENT, ACCESSORIES AND MATERIALS SHALL BE USED AS INTENDED BY THE MANUFACTURER, IN STRICT ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTALLATION, OPERATION AND MAINTENANCE INSTRUCTIONS.
7. THE CONTRACTOR SHALL PROVIDE, IN ADDITION TO ANY OTHER WARRANTIES SPECIFIED, A ONE (1) YEAR FULL LABOR AND MATERIAL WARRANTY ON ALL WORKMANSHIP, MATERIAL AND EQUIPMENT FURNISHED FOR THIS PROJECT.
8. THE MECHANICAL CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL OPENINGS AND REQUIRED LINTELS NEEDED FOR THE INSTALLATION OF MECHANICAL EQUIPMENT.
9. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING DETAILS AND TEMPLATES OF ALL OPENINGS NECESSARY FOR MECHANICAL EQUIPMENT INSTALLATION INCLUDING: HOUSING, ACCESS DOORS, INSPECTION DOORS, AND PASSAGEWAYS FOR MECHANICAL EQUIPMENT.
10. THE CONTRACTOR IS RESPONSIBLE FOR SEALING CRACKS AND FINISHING ROUGH EDGES LEFT FOLLOWING MECHANICAL INSTALLATION.
11. THE USE OF THE MECHANICAL EQUIPMENT FOR HEATING, COOLING, OR DRYING DURING CONSTRUCTION IS PROHIBITED, UNLESS APPROVED BY WRITTEN DOCUMENTATION BY THE OWNER.
12. THE CONTRACTOR SHALL ARRANGE TO MEET AND INSTRUCT THE OWNER IN THE USE AND MAINTENANCE OF SYSTEMS AND EQUIPMENT. THIS INSTRUCTION SHALL BE FOR A MINIMUM OF (4) HOURS. AN ADDITIONAL (2) HOURS OF INSTRUCTION FOR THE OWNER WILL BE GIVEN IN THE OPERATION OF THE TEMPERATURE CONTROLS BY THE INSTALLER OF THE TEMPERATURE CONTROLS.
13. APPROVED EQUALS: MECHANICAL EQUIPMENT MANUFACTURED BY A COMPANY OTHER THAN THAT WHICH WAS SPECIFIED IN THE SCHEDULE MAY BE SUBSTITUTED BY APPROVED SHOP DRAWINGS CONTINUED UPON MEETING THE DESIGN, APPEARANCE, AND FUNCTIONAL STANDARDS ESTABLISHED BY THE ORIGINALLY SPECIFIED ITEM(S). THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING DIMENSIONS, CLEARANCES, ASSEMBLY, FIT, ETC. OF THE APPROVED EQUAL(S) AND THEIR AFFECT ON OTHER EQUIPMENT FIT AND OPERATION. THE CONTRACTOR IS LIABLE FOR ANY ADDED COSTS TO HIMSELF OR OTHERS CAUSED BY THE APPROVED EQUALS.
14. SUBMITTALS
  - 14.1. FURNISH SHOP DRAWINGS TO ARCHITECT/ENGINEER FOR APPROVAL PRIOR TO PLACING DELIVERY ORDERS. PROVIDE SHOP DRAWINGS OF ALL MANUFACTURED EQUIPMENT AND MATERIALS EXCEPT PIPE, PIPE FITTINGS, AND GALVANIZED DUCTWORK.
  - 14.2. AT SUBSTANTIAL COMPLETION OF CONSTRUCTION, FURNISH AS-BUILT PLANS TO ARCHITECT/ENGINEER FOR APPROVAL WITHIN 90 DAYS AFTER THE DATE OF SYSTEM ACCEPTANCE. APPROVED AS-BUILT PLANS SHALL BE PROVIDED TO THE BUILDING OWNER. RECORD DRAWINGS SHALL INCLUDE, AS A MINIMUM, THE LOCATION AND PERFORMANCE DATA ON EACH PIECE OF EQUIPMENT, GENERAL CONFIGURATION OF DUCT AND PIPE DISTRIBUTION SYSTEM INCLUDING SIZES, AND THE TERMINAL AIR OR WATER DESIGN FLOW RATES.
  - 14.3. AN OPERATING MANUAL AND MAINTENANCE MANUAL SHALL BE PROVIDED TO THE BUILDING OWNER WITHIN 90 DAYS OF SYSTEM ACCEPTANCE. THESE MANUALS SHALL BE IN ACCORDANCE WITH INDUSTRY-ACCEPTED STANDARDS AND SHALL INCLUDE, AT THE MINIMUM:
    - 14.3.1. OPERATION AND MAINTENANCE MANUALS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE. REQUIRED ROUTINE MAINTENANCE ACTIONS SHALL BE CLEARLY IDENTIFIED.
    - 14.3.2. NAMES AND ADDRESSES OF AT LEAST ONE SERVICE AGENCY.
    - 14.3.3. HVAC CONTROLS SYSTEM MAINTENANCE AND CALIBRATION INFORMATION, INCLUDING WIRING DIAGRAMS, SCHEMATICS, AND CONTROL SEQUENCE DESCRIPTIONS. DESIRED OR FIELD-DETERMINED SET POINTS SHALL BE PERMANENTLY RECORDED ON CONTROL DRAWINGS AT CONTROL DEVICES OR IN PROGRAMMING COMMENTS.
  - 14.4. SUBMITTAL DATA STATING EQUIPMENT SIZE AND SELECTED OPTIONS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE.
    - 14.4.1. OPERATION AND MAINTENANCE MANUALS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE. REQUIRED ROUTINE MAINTENANCE ACTIONS SHALL BE CLEARLY IDENTIFIED.
    - 14.4.2. NAMES AND ADDRESSES OF AT LEAST ONE SERVICE AGENCY.
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SECOND FLOOR KEY PLAN

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PROJECT:  
**CITY OF NOVI VIDEO STUDIO**

INTERIOR MODIFICATIONS

45175 W 10 Mile Rd  
 Novi, MI 48375

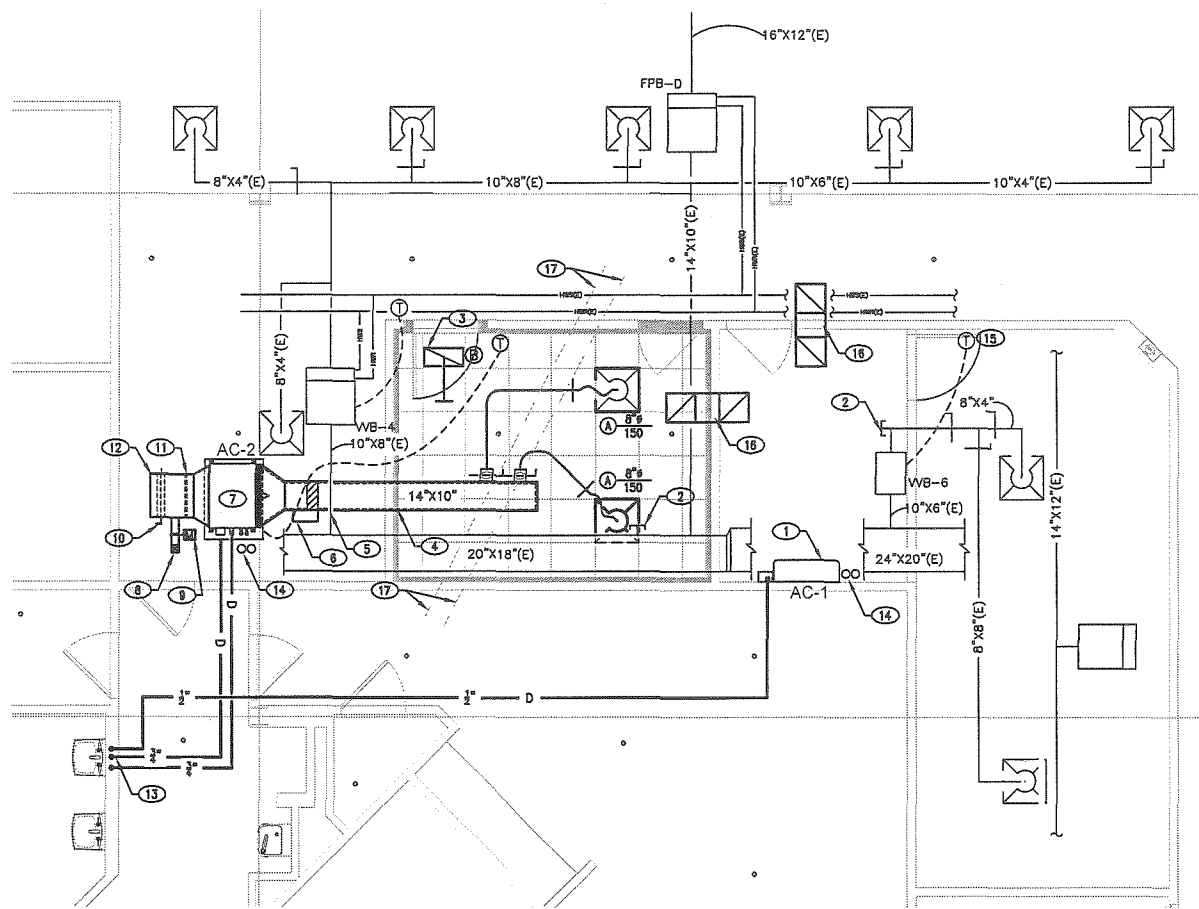
SHEET:  
**DEMOLITION PLAN & NEW HVAC PLAN**

| ISSUE / REVISION: |                |
|-------------------|----------------|
| 04.18.16          | REVIEW         |
| 04.22.16          | OWNER'S REVIEW |
| 04.29.16          | PERMIT SET     |

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 F.D.

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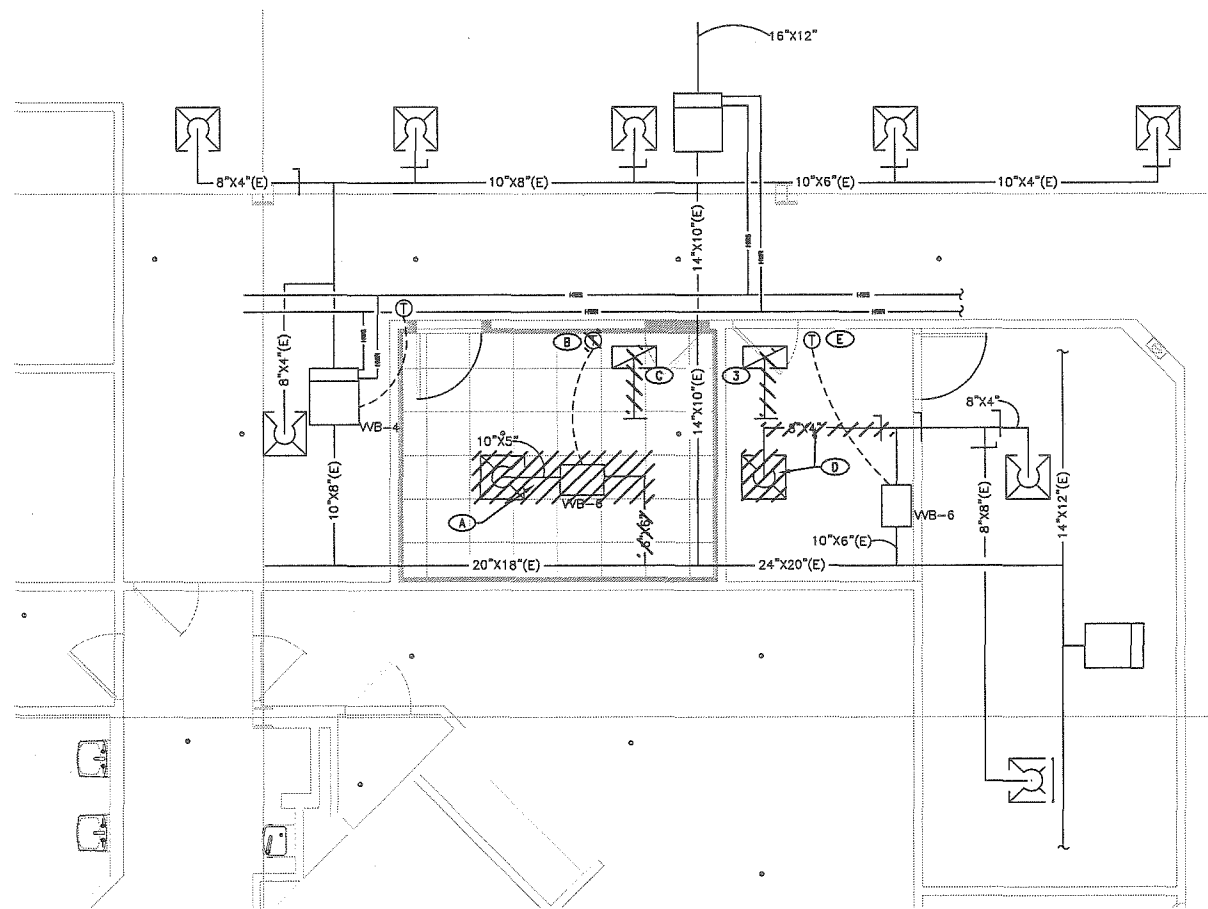
DRAWING NO.  
**M-200**



**NOVI STUDIO NEW HVAC PLAN**  
 SCALE: 1/4" = 1'

- KEYED NOTES:**
- 1 INSTALL NEW INDOOR AC UNIT BELOW CEILING. PROVIDE CONDENSATE PUMP.
  - 2 NEW DUCT CAP
  - 3 SEE DETAIL-2 FOR RETURN AIR GRILLE INSTALLATION
  - 4 SEE DETAIL-3 FOR DUCT PENETRATION
  - 5 MODIFY/REROUTE EXISTING 10"x8" DUCT TO MAKE SPACE FOR NEW 14"x10" SPACE (IF NEEDED)
  - 6 INTERLOCK NEW DUCT HEATER WITH FAN-COIL-UNI FAN OPERATION.
  - 7 HANG FAN-COIL UNIT FROM STRUCTURE ABOVE WITH THREADED-ROD AND VIBRATION ISOLATORS
  - 8 6"x6" UP THRU ROOF. PROVIDE GOOSENECK ABOVE ROOF LEVEL.
  - 9 CONTRACTOR SHALL BALANCE OUTSIDE AIR TO 25-CFM. INTERLOCK MOTORIZED DAMPER WITH FAN-COIL UNIT OPERATION. DAMPER SHALL CLOSE WHEN THE UNIT IS NOT IN OPERATION
  - 10 PROVIDE FULL SIZE RETURN AIR DAMPER IN RETURN AIR PLENUM. BALANCE DAMPER TO 275-CFM
  - 11 MERV-8 FILTER. PROVIDE ACCESS TO REPLACE FILTER
  - 12 24"Wx18"Hx30"L PLENUM
  - 13 TERMINATE CONDENSATE LINES IN AN APPROVED FIXTURE
  - 14 REFRIGERANT LINES FROM CONDENSING UNIT ON ROOF
  - 15 RELOCATED THERMOSTAT. REWIRE WITH VAV BOX
  - 16 16x12 RETURN AIR 1" LINED BOX WITH TWO 16x16 OPENINGS ON TOP. INSTALL AS HIGH AS POSSIBLE SEE DETAIL-1
  - 17 EXISTING BEAM.

- FIRE-PROTECTION NOTES:**
- FIRE-PROTECTION CONTRACTOR SHALL VISIT THE SITE TO DETERMINE EXACT SCOPE OF WORK CURRENTLY THERE ARE TWO SPRINKLER HEADS IN PROPOSED STUDIO. FIRE-PROTECTION CONTRACTOR SHALL ADJUST SPRINKLER HEAD SPACING AND FLOW FOR ORDINARY-HAZARD OCCUPANCY.

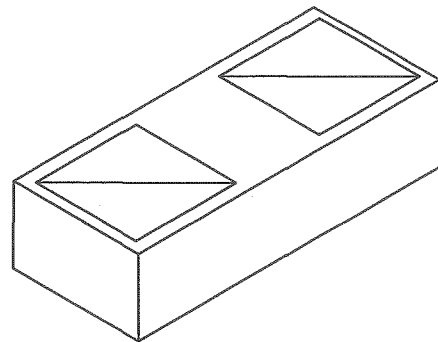


**NOVI STUDIO DEMOLITION PLAN**  
 SCALE: 1/4" = 1'

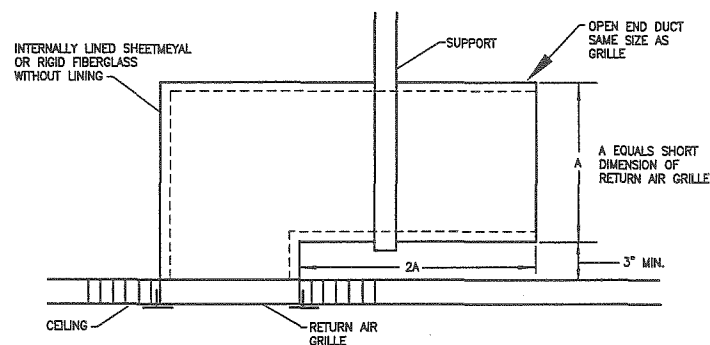
- DEMOLITION KEYED NOTES:**
- A REMOVE EXISTING VAV BOX, CONTROLS, SUPPLY AIR DUCT AND DIFFUSER
  - B REMOVE EXISTING THERMOSTAT
  - C REMOVE EXISTING RETURN AIR GRILLE
  - D REMOVE EXISTING DIFFUSER AND DUCT
  - E EXISTING THERMOSTAT TO BE RELOCATED

**de** 2380 MIDDLEFIELD RD  
 SUITE 2002  
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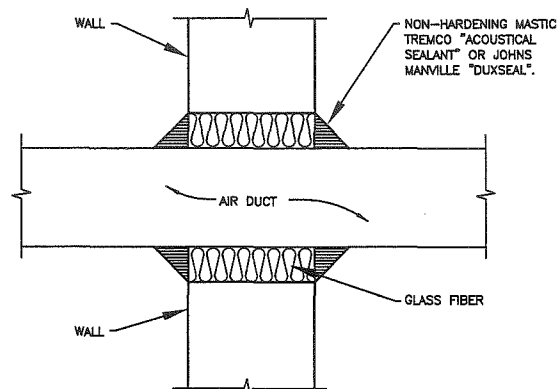
**DIN ENGINEERING**



**DETAIL - 1**  
RETURN AIR BOX DETAIL  
NO SCALE



**DETAIL - 2**  
TYPICAL CEILING RETURN AIR GRILLE SOUND TRAP  
NO SCALE



**DETAIL - 3**  
TYPICAL DETAIL OF ACOUSTICAL SEALING OF AIR DUCT PENETRATION THRU A WALL  
NO SCALE  
NOTE: ALL DUCTS MUST BE SEALED IN THIS MANNER

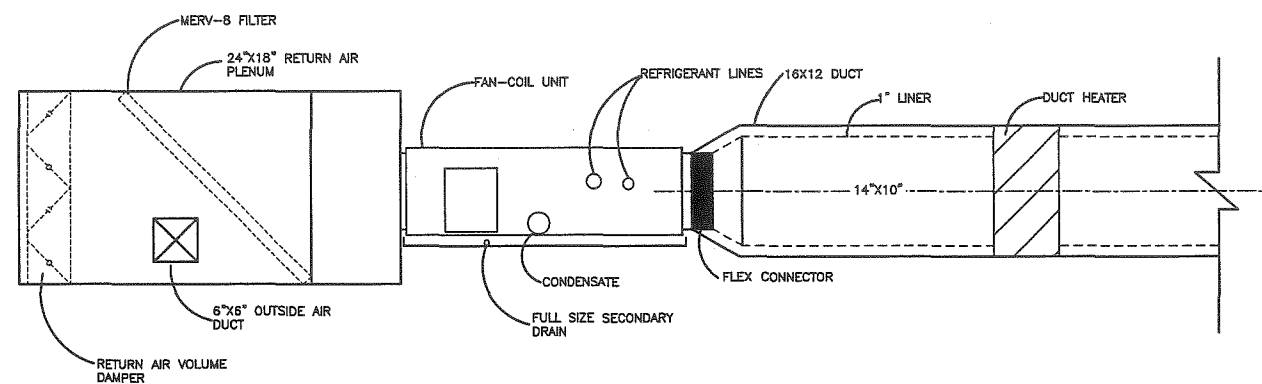
| OUTSIDE AIR CALCULATION    |                   |                        |               |                        |                      |
|----------------------------|-------------------|------------------------|---------------|------------------------|----------------------|
| SPACE TYPE                 | SPACE AREA SQ. FT | DENSITY PEOPLE/1000 SF | NO. OF PEOPLE | OUTSIDE AIR PER PERSON | OUTSIDE AIR REQUIRED |
| STUDIO                     | 158               | -                      | 3             | 6-CFM                  | 18-CFM               |
| CONTROL RM.                | 97                | -                      | 0             | 0-CFM                  | 0-CFM                |
| TOTAL OUTSIDE AIR REQUIRED |                   |                        |               |                        | 18-CFM               |
| TOTAL OUTSIDE AIR SUPPLIED |                   |                        |               |                        | 25-CFM               |

| DIFFUSER, GRILLE, AND LOUVER SCHEDULE |        |   |   |        |           |
|---------------------------------------|--------|---|---|--------|-----------|
| FINISHES:                             |        | NOTES: A) SEE DRAWING FOR NECK SIZE AND AIR QUANTITY B) PROVIDE FRAME COMPATIBLE WITH WALL OR CEILING TYPE C) SQUARE TO ROUND NECK ADAPTER D) ADJUSTABLE PATTERN CONTROLLERS E) OBD. F) REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATION G) FACTORY LINED PLENUM |   |        |           |
| TAG                                   | MANUF. | MODEL   | DESCRIPTION                                       | FINISH | NOTES     |
| Ⓐ                                     | TITUS  | OMNI  | CEILING DIFFUSER 24"x24". ALUMINUM CONSTRUCTION   | 1      | A,B,C,E,F |
| Ⓑ                                     | TITUS  | 50F   | RETURN AIR GRILLE 24"x12" GRID FOR LAY-IN CEILING | 1      | A,B,F     |

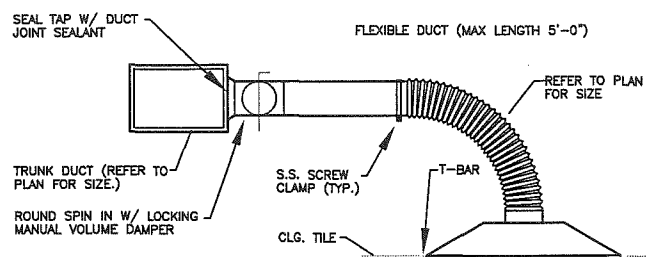
| DUCT HEATER SCHEDULE             |                    |
|----------------------------------|--------------------|
| MARK                             | DH-1               |
| MANUFACTURER                     | GREENHECK          |
| INDOOR /OUTDOOR UNIT MODEL NO.   | IDHC               |
| UNIT ELECTRICAL (V / PH / HZ)    | 12V, 1PHASE, 60-HZ |
| POWER (KW)                       | 3-KW               |
| SIZE                             | DUCT SIZE          |
| CONTROLS                         | SCR                |
| AIRFLOW SWITCH, POWER DISCONNECT |                    |

| AC-1 SCHEDULE                                     |                        |
|---|------------------------|
| MARK  | AC-1                   |
| MANUFACTURER                                      | DAIKIN                 |
| INDOOR /OUTDOOR UNIT MODEL NO.                    | PKA-A12HA6 PUY-A12NHA6 |
| UNIT ELECTRICAL (V / PH / HZ)                     | 208 / 203V, 1PHASE     |
| MCA (INDOOR / OUTDOOR)                            | 1 / 13                 |
| EER / SEER  | 10.1 / 15.2            |
| COOLING   | 12000 BUT/H            |
| REFRIGERANT                                       | R410A                  |
| LIQUID / GAS                                      | 1/4" / 1/2"            |
| PROVIDE CONDENSATE PUMP, PROGRAMMABLE WALL T-STAT |                        |

| AC-2 SCHEDULE                                     |                        |
|---|------------------------|
| MARK  | AC-2                   |
| MANUFACTURER                                      | DAIKIN                 |
| INDOOR /OUTDOOR UNIT MODEL NO.                    | PEA-A12AA6 PUY-A12NHA6 |
| UNIT ELECTRICAL (V / PH / HZ)                     | 208 / 203V, 1PHASE     |
| MCA (INDOOR / OUTDOOR) MOCP                       | 1 / 13 15              |
| EER / SEER  | 9.7 / 14.0             |
| COOLING   | 12000 BUT/H            |
| REFRIGERANT                                       | R410A                  |
| LIQUID / GAS                                      | 1/4" / 1/2"            |
| PROVIDE CONDENSATE PUMP, PROGRAMMABLE WALL T-STAT |                        |



**FAN-COIL UNIT INSTALLATION DETAIL**  
NO SCALE



**SPIN-IN AND CLG. DIFFUSER DETAIL**  
NO SCALE

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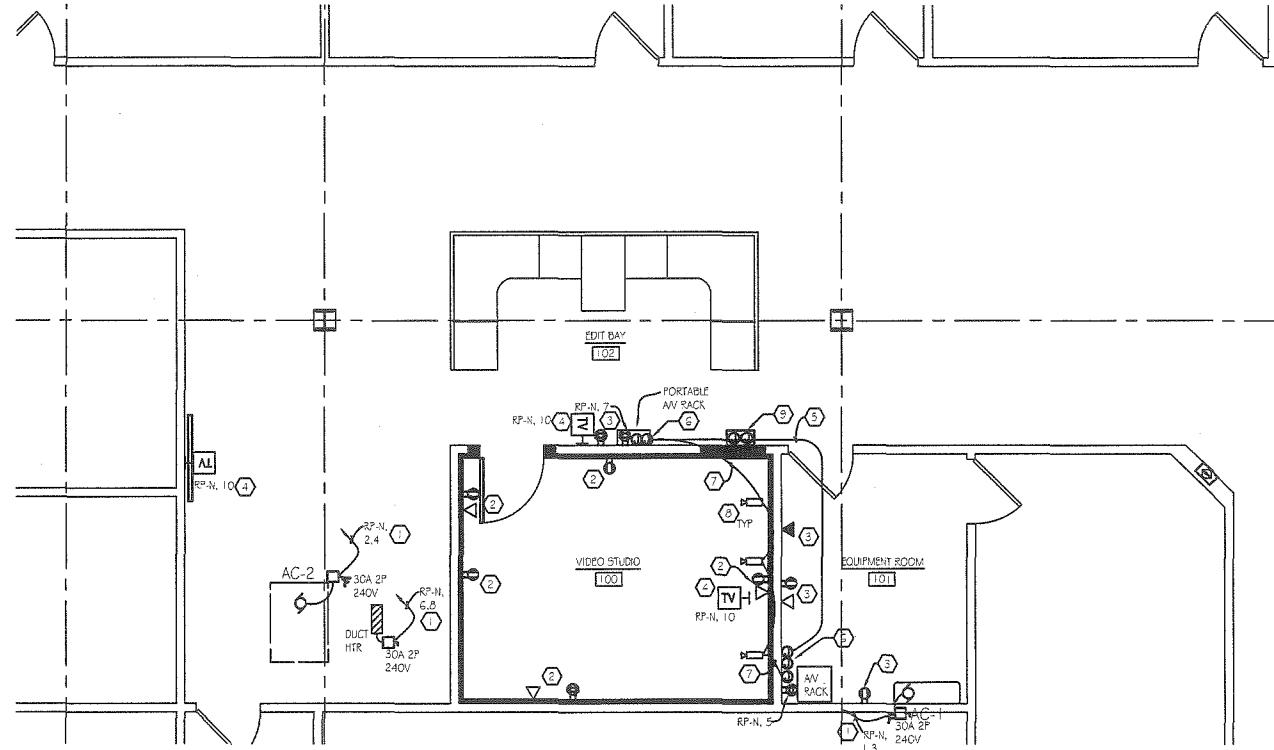
04.18.16 REVIEW  
04.22.16 OWNER'S REVIEW  
04.29.16 PERMIT SET

**DRAWN BY:**

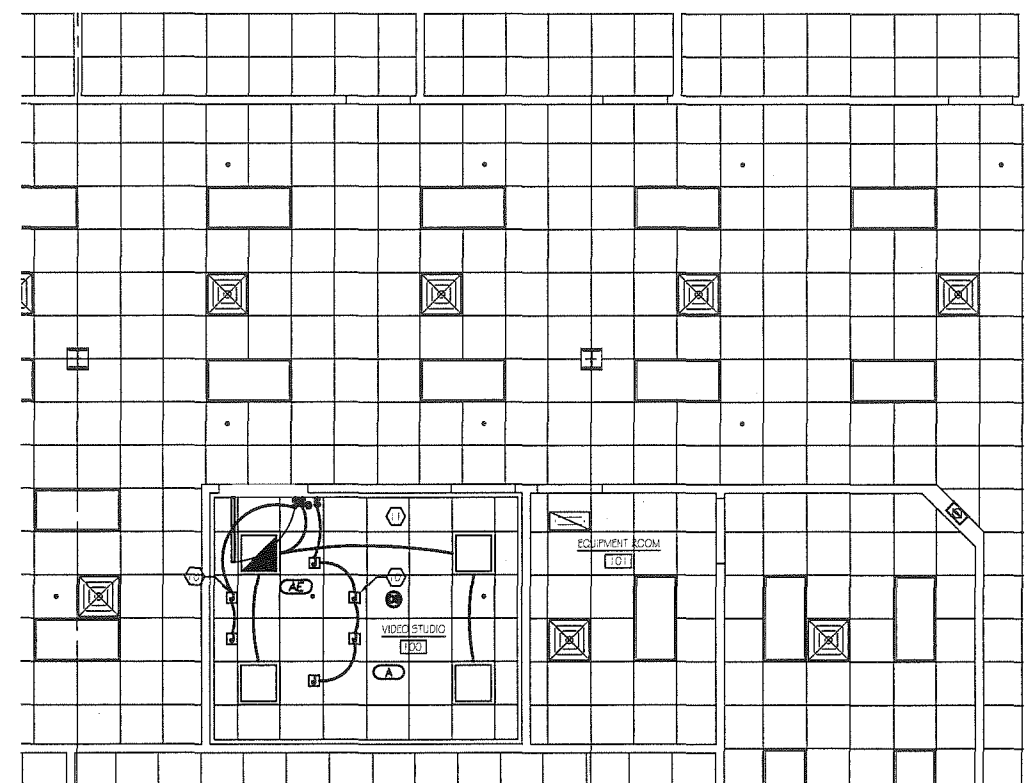
F.D.

**REVIEWED BY:**  
F.D.

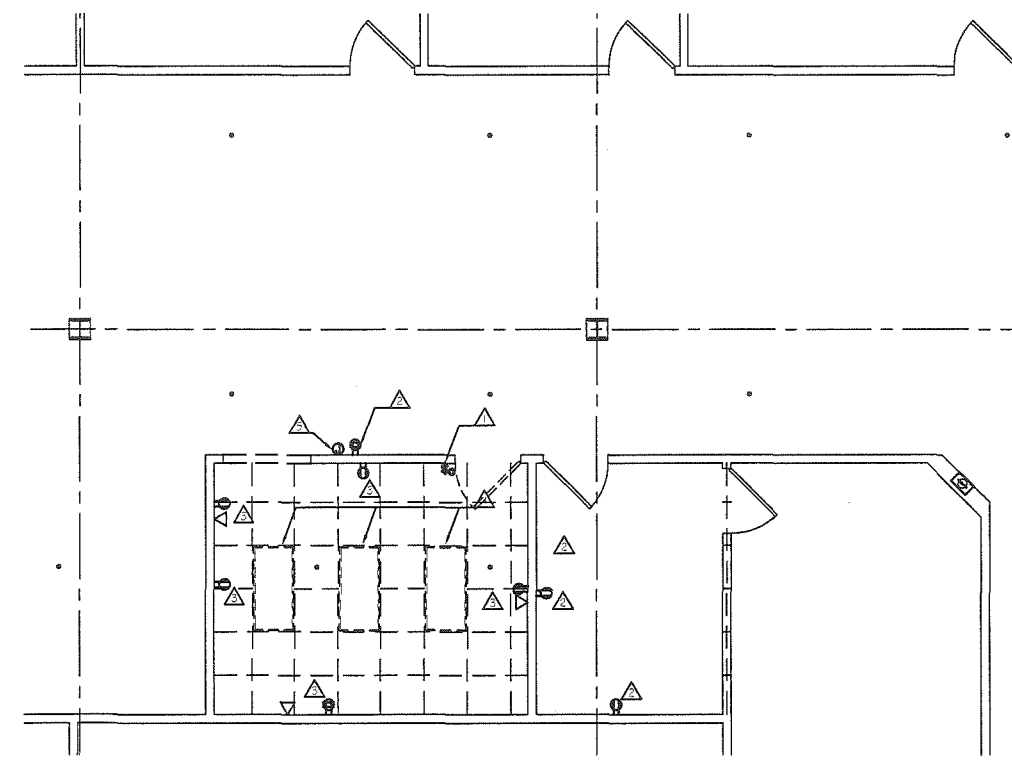




**POWER PLAN**  
SCALE: 1/4" = 1'-0"  
NORTH



**LIGHTING PLAN**  
SCALE: 1/4" = 1'-0"  
NORTH



**ELECTRICAL DEMOLITION PLAN**  
SCALE: 1/4" = 1'-0"  
NORTH

**GENERAL DEMOLITION NOTES**

1. REMOVE OR ISOLATE WIRING, OUTLETS, LIGHTING FIXTURES, ETC. THAT ARE TO BE ABANDONED AND/OR INTERFERING WITH THE BUILDING ALTERATIONS OR ADDITIONS.
2. EXISTING ELECTRICAL WIRING, OUTLETS, LIGHTING FIXTURES, ETC. NOT INTERFERING WITH THE BUILDING ALTERATIONS OR ADDITIONS SHALL REMAIN CONNECTED TO EXISTING CIRCUITS.
3. COORDINATE DEMOLITION WITH ARCHITECTURAL AND MECHANICAL TRADES.

**GENERAL POWER NOTES**

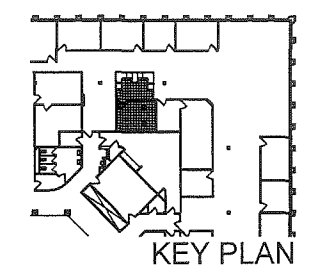
1. ALL ELECTRICAL DEVICES SHOWN ON THIS PLAN SHALL BE NEW UNLESS OTHERWISE NOTED.
2. ANY 120 VOLT BRANCH CIRCUIT FEEDER LONGER THAN 120'-0" TO LAST DEVICE SHALL BE SIZED TO THE NEXT LARGER STANDARD AWG SIZE. E.C. SHALL VERIFY ALL LENGTHS OF FEEDERS.
3. ALL RECEPTACLES SHALL BE 20A RATED UNLESS NOTED OTHERWISE.
4. ALL RECEPTACLES WITHIN 6'-0" OF SINK OR OTHER WATER SUPPLY SHALL BE GFI TYPE RECEPTACLE.
5. REFER TO ARCHITECTURAL FLOOR PLAN AND ELEVATIONS FOR EXACT LOCATION OF DEVICES.
6. ALL JUNCTION BOXES SERVING BRANCH CIRCUIT WIRING SHALL BE LABELED WITH CIRCUITS SERVED.
7. ALL 120 VOLT CIRCUITS SHALL UTILIZE A SEPARATE NEUTRAL.
8. ALL CONDUITS SERVING 120 VOLTS OR GREATER SHALL INCLUDE A GROUND WIRE.

**DEMOLITION KEY NOTES:**

- ⚠ EXISTING SWITCH TO BE REMOVED, PROVIDE COVER PLATE
- ⚠ EXISTING RECEPTACLE OR DATAPHONE OUTLET TO REMAIN
- ⚠ EXISTING RECEPTACLE OR DATA OUTLET TO BE EXTENDED OUT TO NEW FLOORING, REFER TO NEW PLAN THIS SHEET
- ⚠ EXISTING 2X4 LIGHT FIXTURES TO BE REMOVED, REMOVE CONDUIT AND WIRING BACK TO J-BOX, REUSE EXISTING CIRCUIT FOR NEW LIGHTING.
- ⚠ EXISTING WALL MOUNTED J-BOX WITH WHIP TO PREWIRED FURNITURE TO BE RELOCATED, REFER TO NEW PLAN THIS SHEET.

**NEW WORK KEY NOTES:**

- ① RUN 2#12A112 GND SH/C TO NEW PANEL RP-N. NEW PANEL WILL BE INSTALLED IN 1ST FLOOR ELECTRICAL ROOM. REFER TO PANEL SCHEDULE SHEET E100.
- ② EXISTING RECEPTACLE OR DATAPHONE OUTLET TO BE FURLED OUT TO NEW WALL, EXTEND CONDUIT AND WIRING AS REQUIRED, COORDINATE WITH ARCH PLANS FOR PROPER SEALING OF RECEPTACLE DUE TO SOUND.
- ③ EXISTING RECEPTACLE OR DATA OUTLET TO REMAIN
- ④ POWER AND DATA RECEPTACLE FOR TV MONITOR, CIRCUIT AS SHOWN, VERIFY EXACT MOUNTING HEIGHT IN THE FIELD, REFER TO DETAIL SHEET E100.
- ⑤ PROVIDE (2) 1" C WITH FULL STRING FROM EACH AV J-BOX TO PORTABLE AV J-BOX, RUN ABOVE CEILING, COORDINATE ALL WORK WITH AV CONTRACTOR PRIOR TO ROUGH-IN.
- ⑥ PROVIDE (2) 4" SQUARE DEEP BOXES WITH 1" HOLE S/S COVER PLATE FOR FEED THROUGH MOUNTED AT 10' AFF.
- ⑦ 1" C WITH FULL STRING FOR CAMERA FEED.
- ⑧ PROVIDE SINGLE GND J-BOX FOR CAMERA LOCATION, VERIFY EXACT MOUNTING HEIGHT IN THE FIELD.
- ⑨ NEW LOCATION OF FURNITURE CIRCUIT, PROVIDE NEW 4" ROUND FIRE RATED FEED THRU FLOOR BOX, EXTEND EXISTING CIRCUIT THROUGH FIRST FLOOR CEILING SPACE, REFER TO DEMOLITION NOTE #5 THIS SHEET, PROVIDE NEW WHIP AND FINAL TERMINATION TO PREWIRED FURNITURE.
- ⑩ PROVIDE NEW CEILING MOUNTED SINGLE TWIST LOCK 1.5A 120V RECEPTACLE WITH S/S COVER PLATE FOR STUDIO LIGHTING, LIGHTING IS PROVIDED BY AV CONTRACTOR, CONNECT TO AV RACK 120V CIRCUIT.
- ⑪ CONNECT NEW TYPE 'A' AND 'AE' FIXTURE TO EXISTING LIGHTING FIXTURE, PROVIDE NEW DIMMER SWITCH AS SHOWN.



**KEY PLAN**

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**PROJECT:**  
CITY OF NOVI VIDEO STUDIO

**INTERIOR MODIFICATIONS**

45175 W 10 Mile Rd  
Novi, MI 48375

SHEET:

**POWER AND LIGHTING PLANS**

ISSUE / REVISION:

|          |                |
|----------|----------------|
| 04.19.16 | REVIEW         |
| 04.28.16 | OWNER'S REVIEW |
| 04.29.16 | PERMIT SET     |

DRAWN BY:

F.A

REVIEWED BY:

F.A

JTAI FILE NO.

16.06

DRAWING NO.

**E-200**