

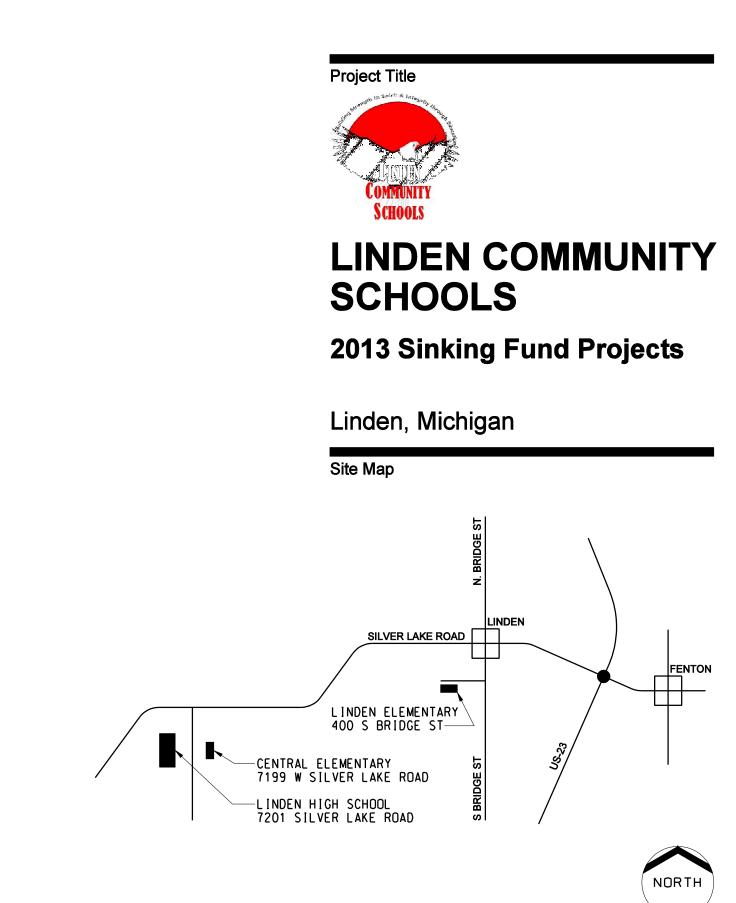
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Linden Community Schools

2013 Sinking Fund Projects

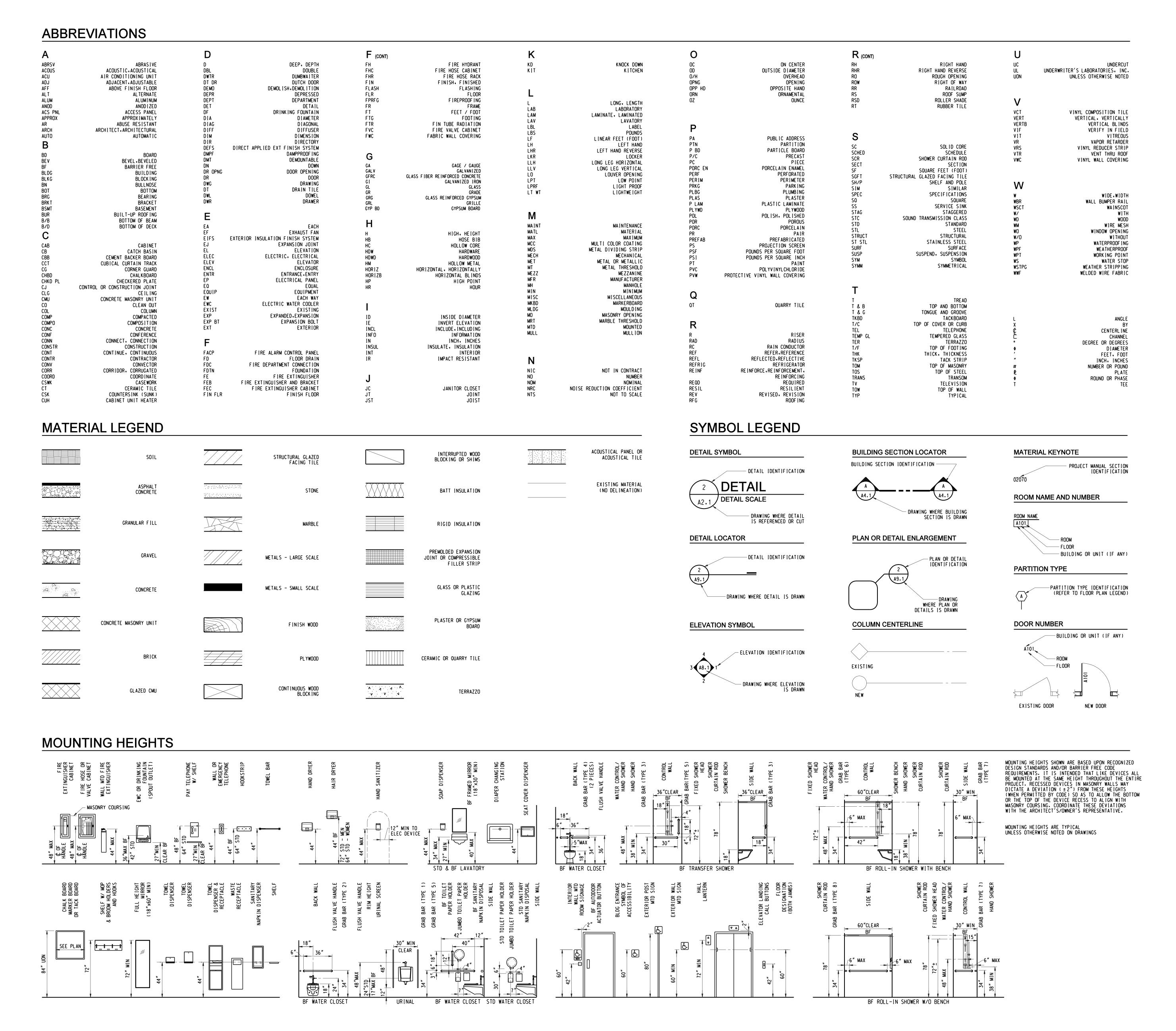
- High School Student Lockers
- High School Toilet Room Upgrades and Fixture Replacements
- High School New Barrier Free Toilet Room and Office Renovation
- Central Elementary Student Lockers
- Central Elementary Window and Door Replacement
- Linden Elementary Classroom Storage and Art Room Renovation

Linden, Michigan



List	of Drawings
ARCHI	ΓECTURAL
A0.1	ARCHITECTURAL REFERENCE INFORMATION
A1.1HS A1.2HS	HIGH SCHOOL LOCKER DEMOLITION AND NEW WORK PLAN HIGH SCHOOL LOCKER DETAILS
A1.3HS	HIGH SCHOOL NEW BARRIER FREE TOILET ROOM AND OFFICE RENOVATION
	CENTRAL ELEMENTARY LOCKER PLAN AND DETAILS
A2.2CE	CENTRAL ELEMENTARY WINDOW DEMOLITION AND NEW WORK PLAN
A3.1LE	LINDEN ELEMENTARY CLASSROOM STORAGE ELEVATIONS
A3.2LE	LINDEN ELEMENTARY CLASSROOM STORAGE ELEVATIONS AND DETAILS
A3.3LE	LINDEN ELEMENTARY CLASSROOM STORAGE DETAILS
ARCHI	ΓECTURAL/MECHANICAL
AM1.1HS	HIGH SCHOOL TOILET ROOM UPGRADES AND FIXTURE REPLACEMENTS
AM1.1LE	LINDEN ELEMENTARY CLASSROOM STORAGE DEMOLITION AND NEW WORK PLAN
MECHA	ANICAL
M0.1	MECHANICAL REFERENCE INFORMATION
M2.1HS	MECHANICAL DEMOLITION AND NEW WORK FLOOR PLANS, SCHEDULES, DETAILS AND TEMPERATURE CONTROLS
M6.1HS	·
ELECTI	RICAL
E0.1	ELECTRICAL REFERENCE INFORMATION
E1.1HS	ELECTRICAL DEMOLITION AND NEW WORK PLANS

			 Issue Date:	Issued for:
2040	Information		03-11-13	Quality Managemer
Jude	IIIIOIIIIauoii		03-15-13	Bids
PPLICABL	E CONSTRUCTION CODES AND ST	ANDARDS		
UILDING:	MICHIGAN DEPARTMENT OF LICENSING AND AFFAIRS, BUREAU OF CONSTRUCTION CODI BUILDING CODE, INCORPORATING THE 2009 THE INTERNATIONAL BUILDING CODE	ES, 2009 MICHIGAN		
	MICHIGAN DEPARTMENT OF LICENSING AND AFFAIRS, BUREAU OF FIRE SERVICES, RULE COLLEGES AND UNIVERSITIES, 1999, INCOR 1997 EDITION OF THE NFPA 101 LIFE SAFETY	S FOR SCHOOLS, PORATING THE		
ARRIER FREE	E: MICHIGAN DEPARTMENT OF LICENSING AND AFFAIRS, 2009 MICHIGAN BUILDING CODE, I THE 2009 EDITION OF THE INTERNATIONAL E	NCORPORATING		
	AMERICANS WITH DISABILITIES ACT (ADA), 2 FOR ACCESSIBLE DESIGN	2010, STANDARDS		
IECHANICAL:	MICHIGAN DEPARTMENT OF LICENSING AND AFFAIRS, 2009 MICHIGAN MECHANICAL COD THE 2009 EDITION OF THE INTERNATIONAL N	E, INCORPORATING		
LUMBING:	MICHIGAN DEPARTMENT OF LICENSING AND AFFAIRS, 2009 MICHIGAN PLUMBING CODE, THE 2009 EDITION OF THE INTERNATIONAL F	INCORPORATING		
LECTRICAL:	MICHIGAN DEPARTMENT OF LICENSING AND AFFAIRS, 2008 MICHIGAN ELECTRICAL CODE			





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LINDEN COMMUNITY SCHOOLS

2013 Sinking Fund Projects

Linden, Michigan

Key Plan

THIS SHEET.

THIS PROJECT MAY NOT UTILIZE ALL THE SYMBOLS, MATERIALS, ABBREVIATIONS AND STANDARD INFORMATION SHOWN ON

Project Administrator: K. Delzer	Seal:
Project Designer: B. Ingham	
Project Architect / Engineer: B. Ingham	
Drawn By: B. Ingham	
Q.M. Review: K. Delzer	
Approved: K. Delzer	Signature:
Drawing Scale:	Date:

Issue Date: Issued for:

03-11-13 Quality Management Review

03-14-13 Plan Review
03-15-13 Bids

2013 Integrated Design Solutions, LLC
 IDS Drawing Title

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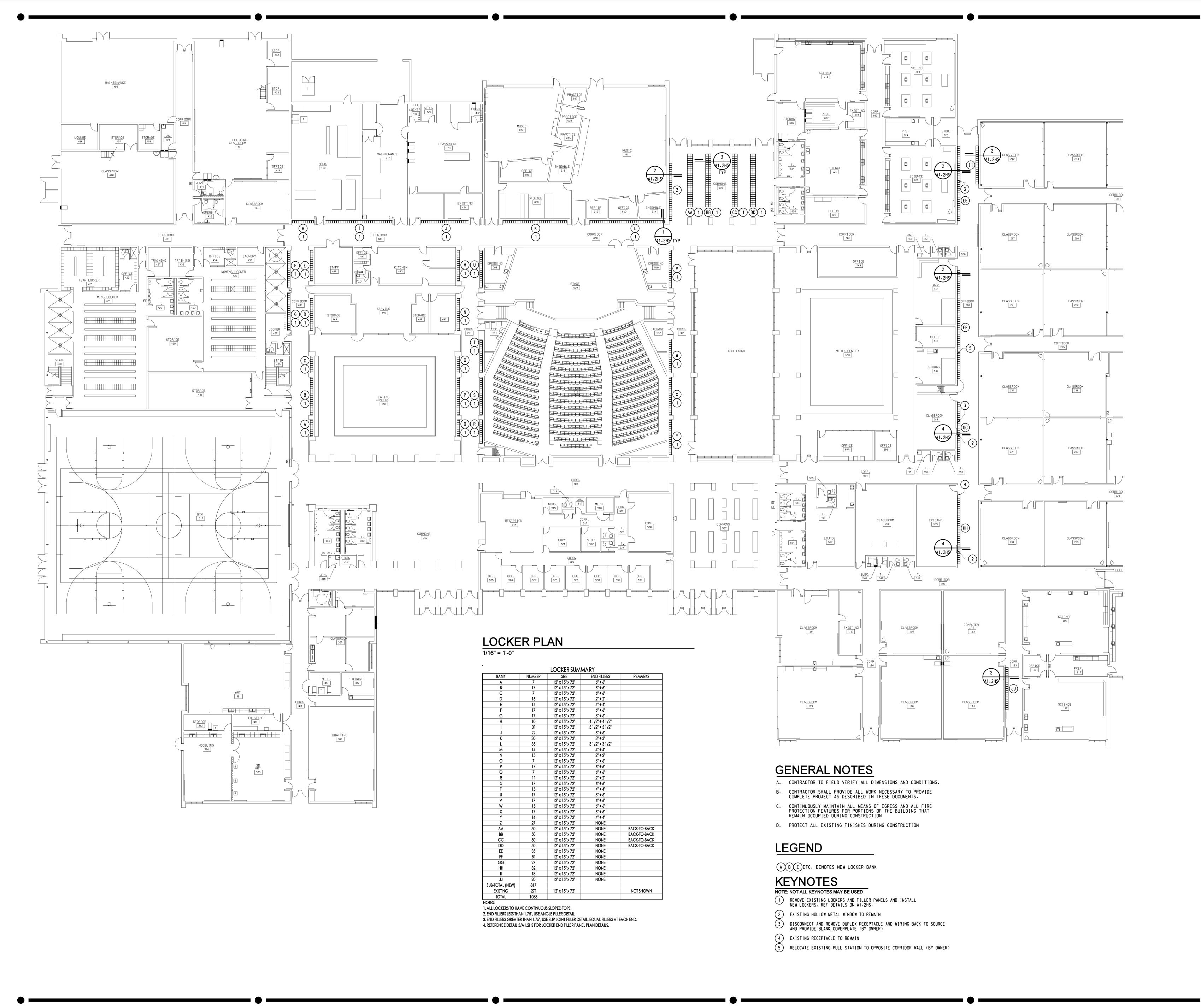
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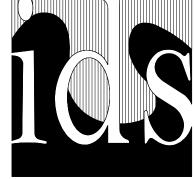
IDS Project Number

Drawing Number

13101-1000

A0.1





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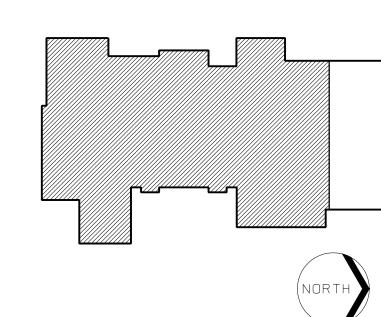


SCHOOLS LINDEN COMMUNITY SCHOOLS

2013 Sinking Fund Projects

Linden, Michigan

Key Plan



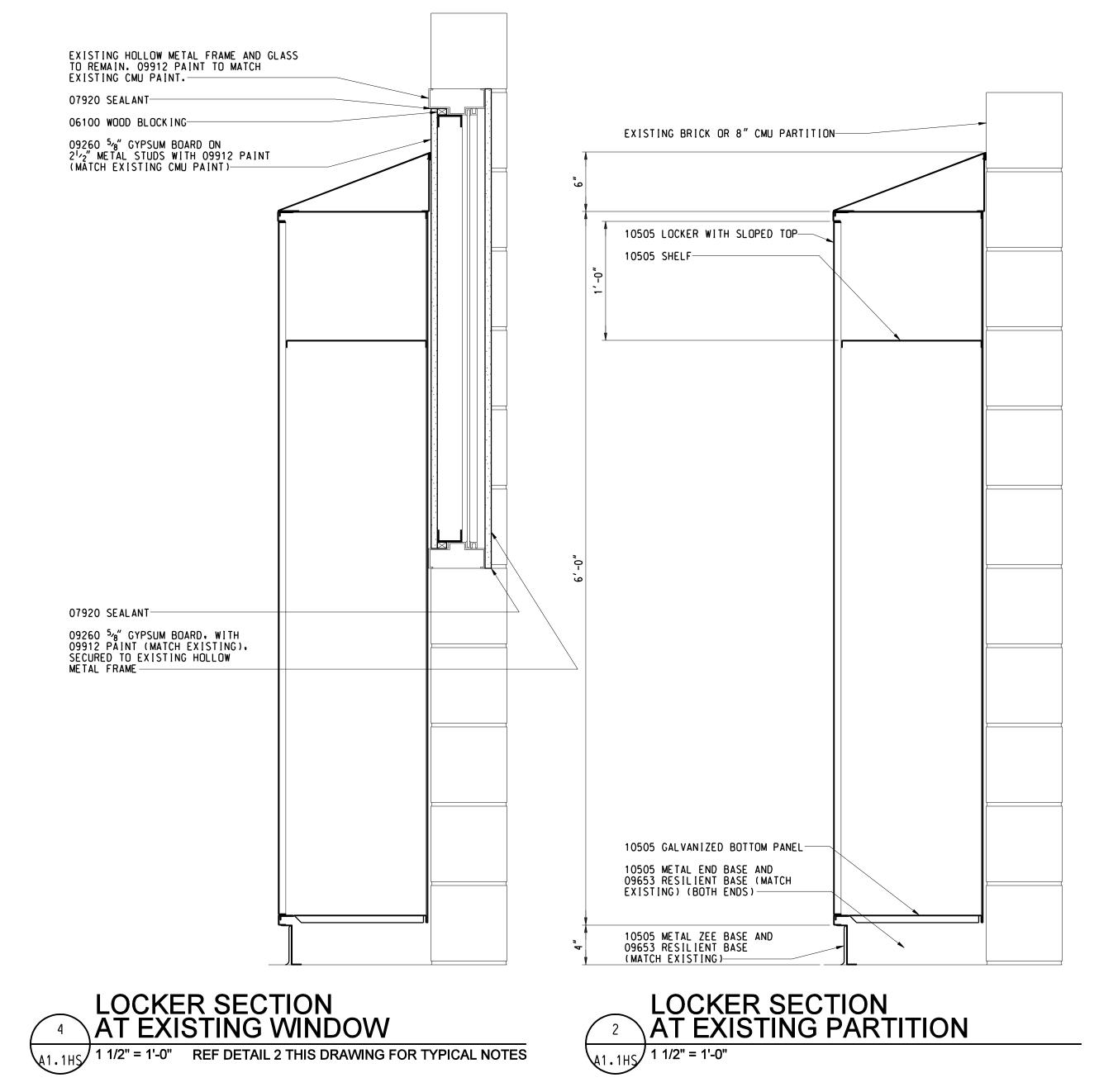
Project Administra K. Delzer	ator:	Seal:
Project Designer: B. Ingham		
Project Architect / B. Ingham	Engineer:	
Drawn By: B. Ingham		
Q.M. Review: K. Delzer		
Approved: K. Delzer		Signature:
Drawing Scale: 1/16" = 1'-0"		Date:
Issue Date:	Issued fo	or:
03-11-13	Quality M	Management Review
03-15-13	Bids	

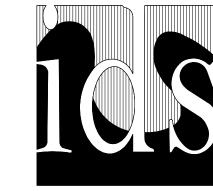
2013 Integrated Design Solutions, LLCIDS Drawing Title

High School Locker Demolition and New Work Plan

IDS Project Number

3101-1000 **Δ11**





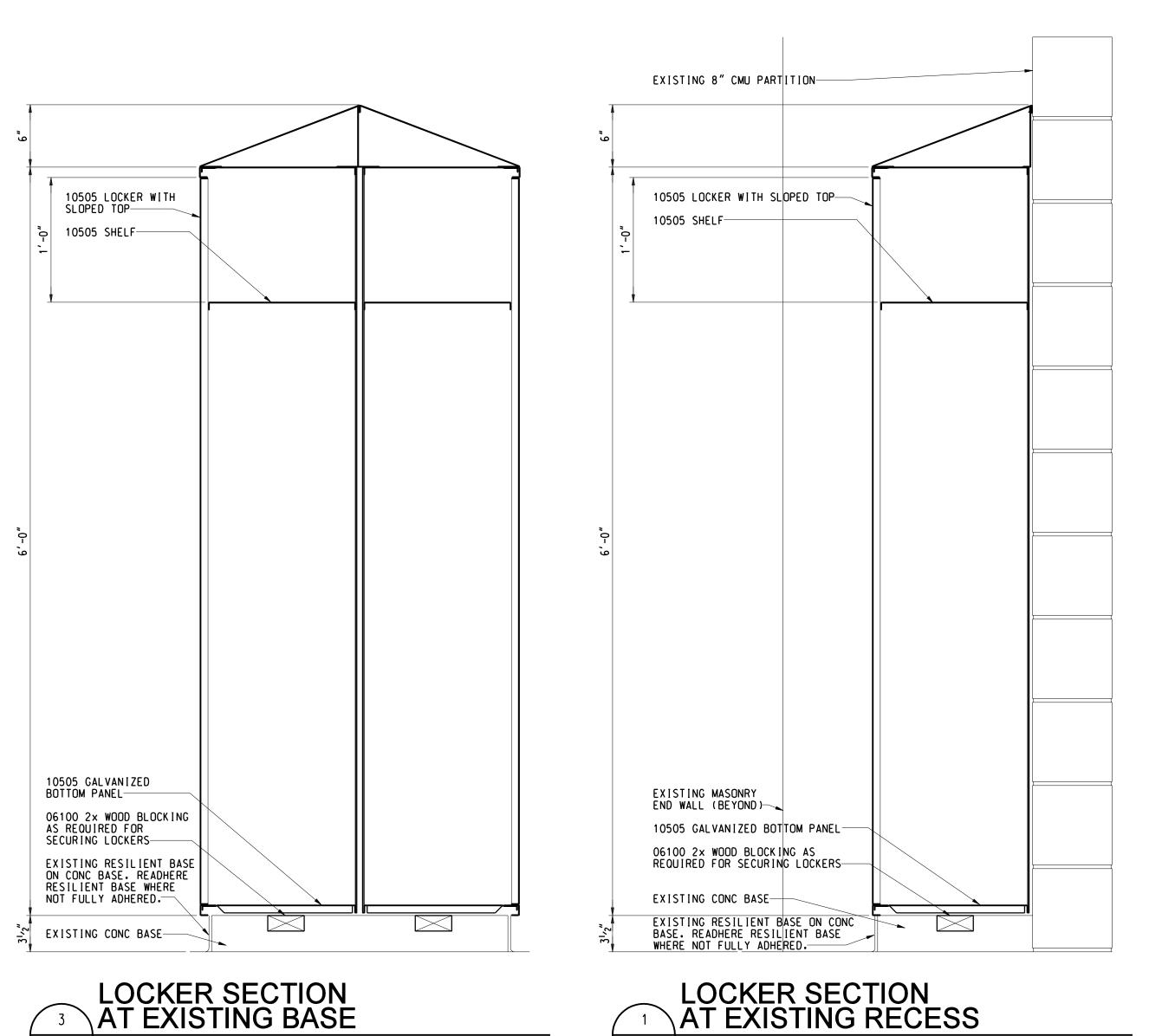
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2013 Sinking Fund Projects

Linden, Michigan

Key Plan



A1.1HS 1 1/2" = 1'-0"

-10505 LOCKER

-07920 SEALANT

-10505 LOCKER

A1.1HS 1 1/2" = 1'-0"

-EXISTING PARTITION

10505 LOCKER END FILLER PANEL

-EXISTING PARTITION

-10505 LOCKER END FILLER PANEL SLIP JOINT

GREATER THAN 1³⁄₄". REF LOCKER SCHEDULE.

> 1³⁄₄" OR LESS. REF LOCKER SCHEDULE.

LOCKER END FILLER PANEL PLAN DETAILS

A1.1HS 6" = 1'-0"

Project Administrator:
K. Delzer
Project Designer:
B. Ingham
Project Architect / Engineer:
B. Ingham

Drawn By:
B. Ingham

Q.M. Review:
K. Delzer

Approved:
K. Delzer

Drawing Scale:
As Noted

Issue Date: Issued for:
03-11-13 Quality Management Review

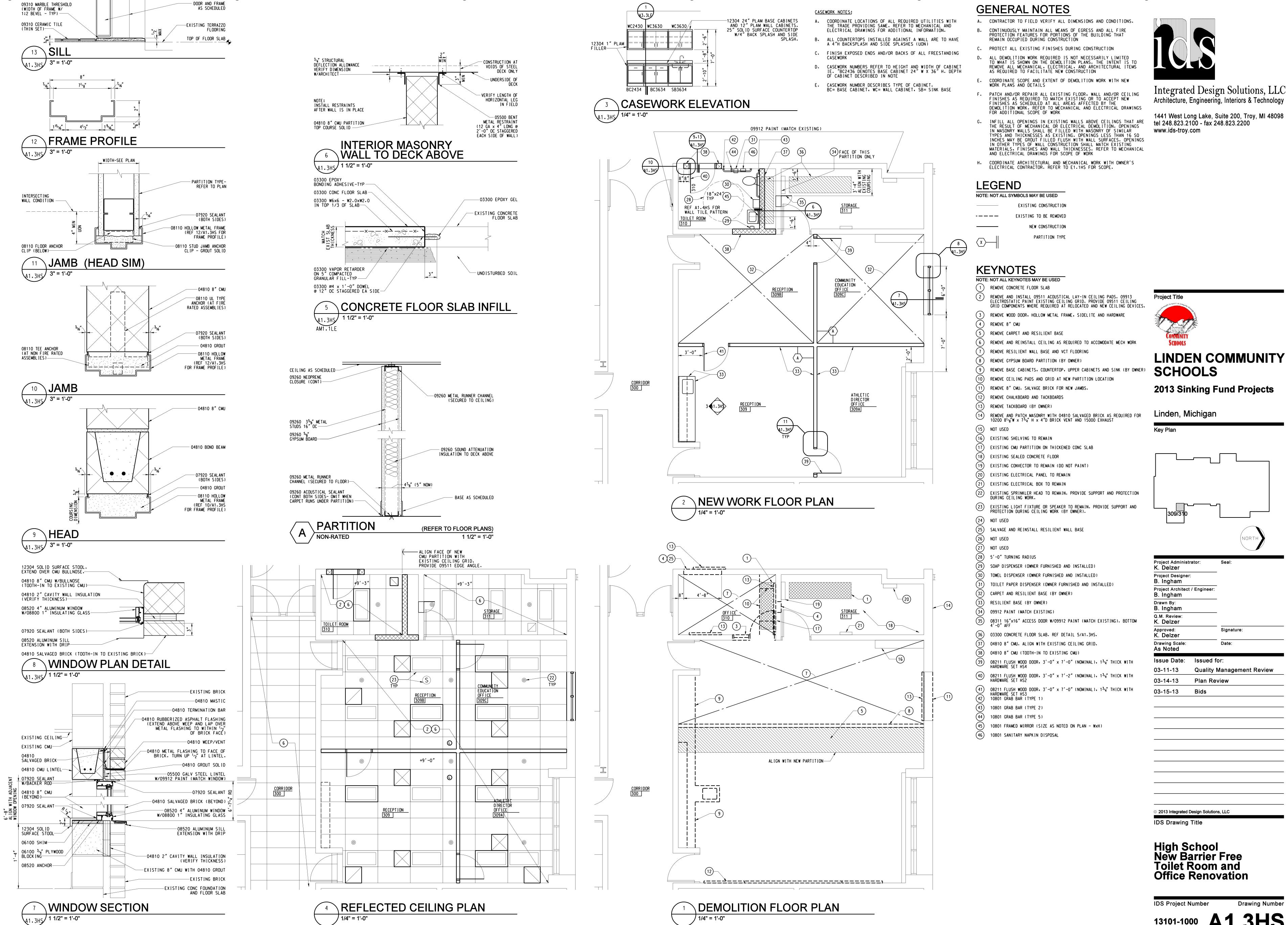
03-15-13 Bids

High School Locker Details

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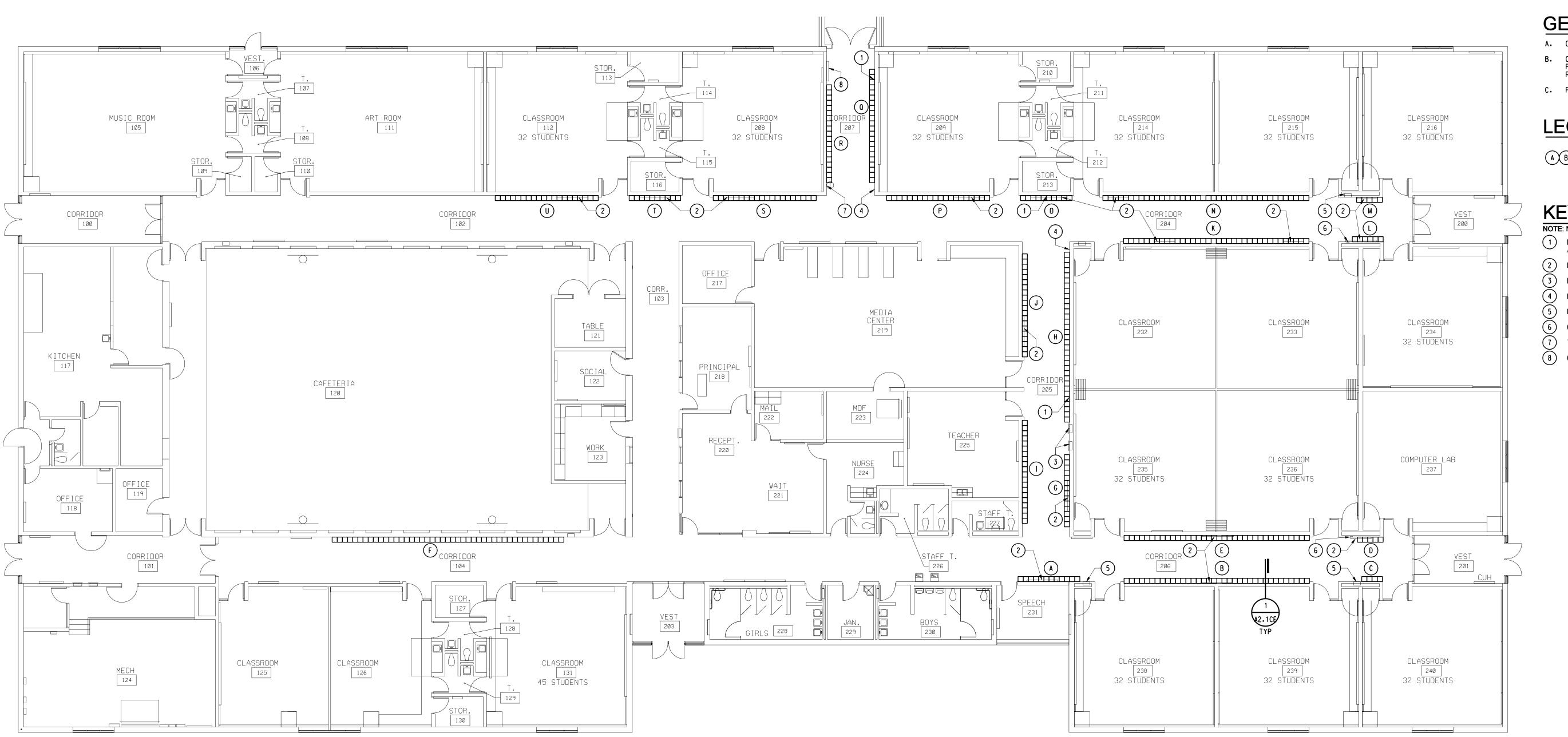
IDS Project Number



1/4" = 1'-0"

/ 1/4" = 1'-0"

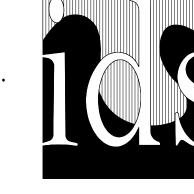
13101-1000 A1.3HS



- A. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS AND CONDITIONS. CONTINUOUSLY MAINTAIN ALL MEANS OF EGRESS AND ALL FIRE PROTECTION FEATURES FOR PORTIONS OF THE BUILDING THAT REMAIN OCCUPIED DURING CONSTRUCTION
- PROTECT ALL EXISTING FINISHES DURING CONSTRUCTION

LEGEND

A B C ETC. DENOTES NEW LOCKER BANK



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KEYNOTES

- NOTE: NOT ALL KEYNOTES MAY BE USED
- DISCONNECT AND REMOVE DUPLEX RECEPTACLE AND WIRING BACK TO SOURCE AND PROVIDE BLANK COVERPLATE (BY OWNER)
- (2) REMOVE TACKBOARD (BY OWNER)
- 3 ELECTRICAL PANEL TO REMAIN 4) LIGHT SWITCH TO REMAIN
- 5) RECESSED FIRE EXTINGUISHER CABINET TO REMAIN
- (6) CLEAN OUT TO REMAIN THERMOSTAT TO REMAIN
- 8 CABINET UNIT HEATER TO REMAIN

EXISTING STRUCTURAL GLAZED FACING TILE PARTITION

10505 LOCKER WITH SLOPED TOP-

10505 SHELF-

10505 SHELF-

10505 GALVANIZED BOTTOM PANEL-

10505 METAL END BASE AND
09653 RESILIENT BASE (JOHNSONITE
167 FUDGE) (BOTH ENDS)

LOCKER SECTION AT EXISTING PARTITION

10505 METAL ZEE BASE AND 09653 RESILIENT BASE (JOHNSONITE 167 FUDGE)

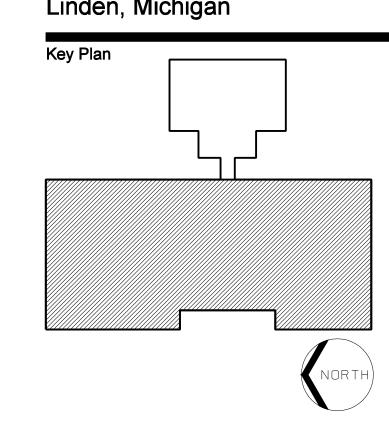
A2.1CE 1 1/2" = 1'-0"

Project Title



2013 Sinking Fund Projects

Linden, Michigan



Project Administrator: K. Delzer	Seal:
Project Designer: B. Ingham	
Project Architect / Engineer: B. Ingham	
Drawn By: B. Ingham	
Q.M. Review: K. Delzer	
Approved: K. Delzer	Signature:
Drawing Scale: As Noted	Date:
Issue Date: Issued f	or:
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Quality Management Review

03-15-13 Bids

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Central Elementary Locker Plan and Details

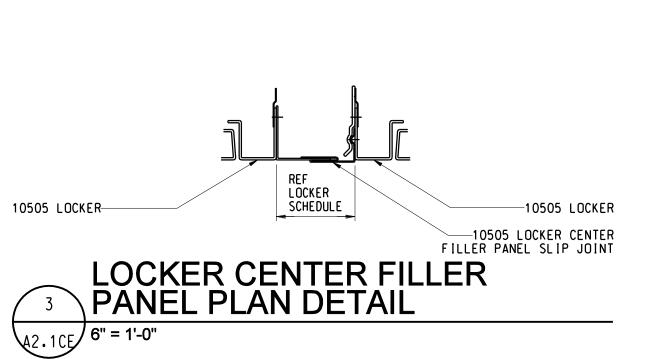
IDS Project Number

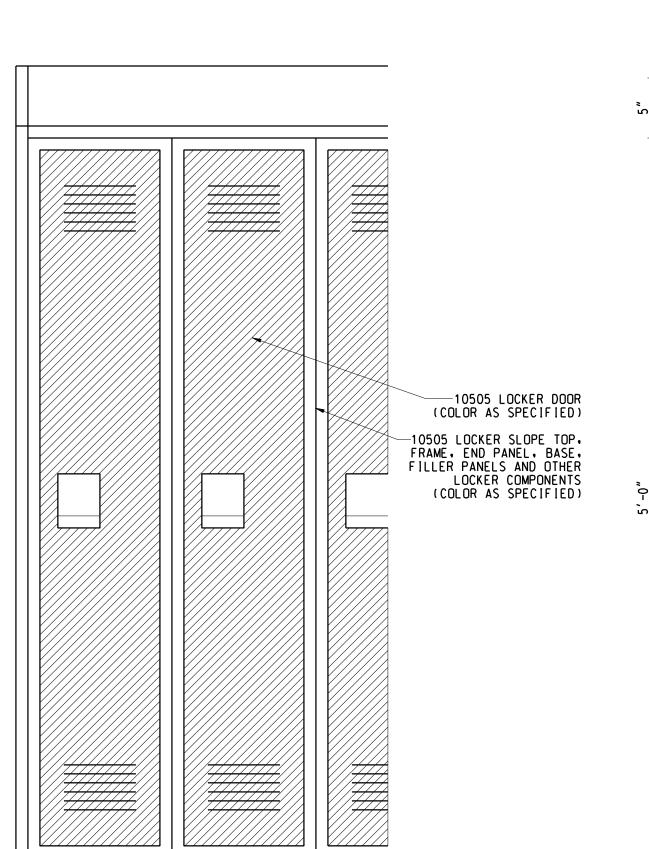
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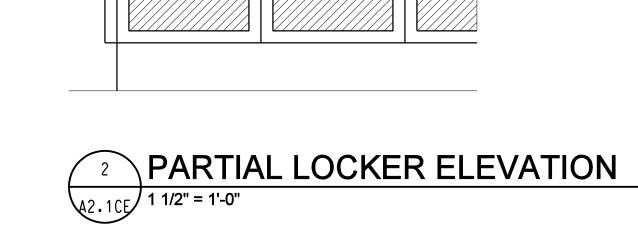
LOCKER PLAN 3/32" = 1'-0"

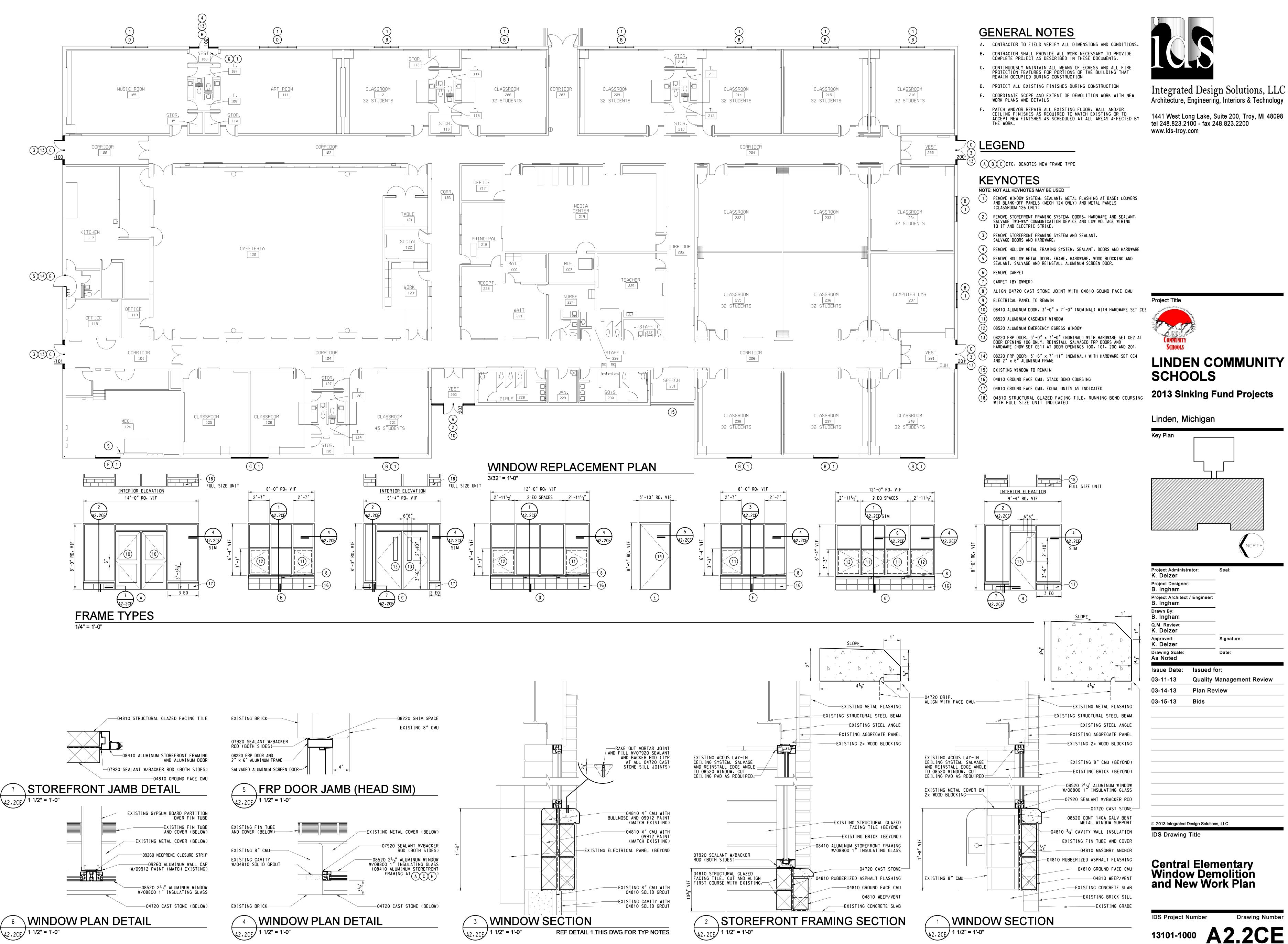
LOCKER SUMMARY 12" x 12" x 60" TOTAL 1. ALL LOCKERS TO HAVE CONTINUOUS SLOPED TOPS.

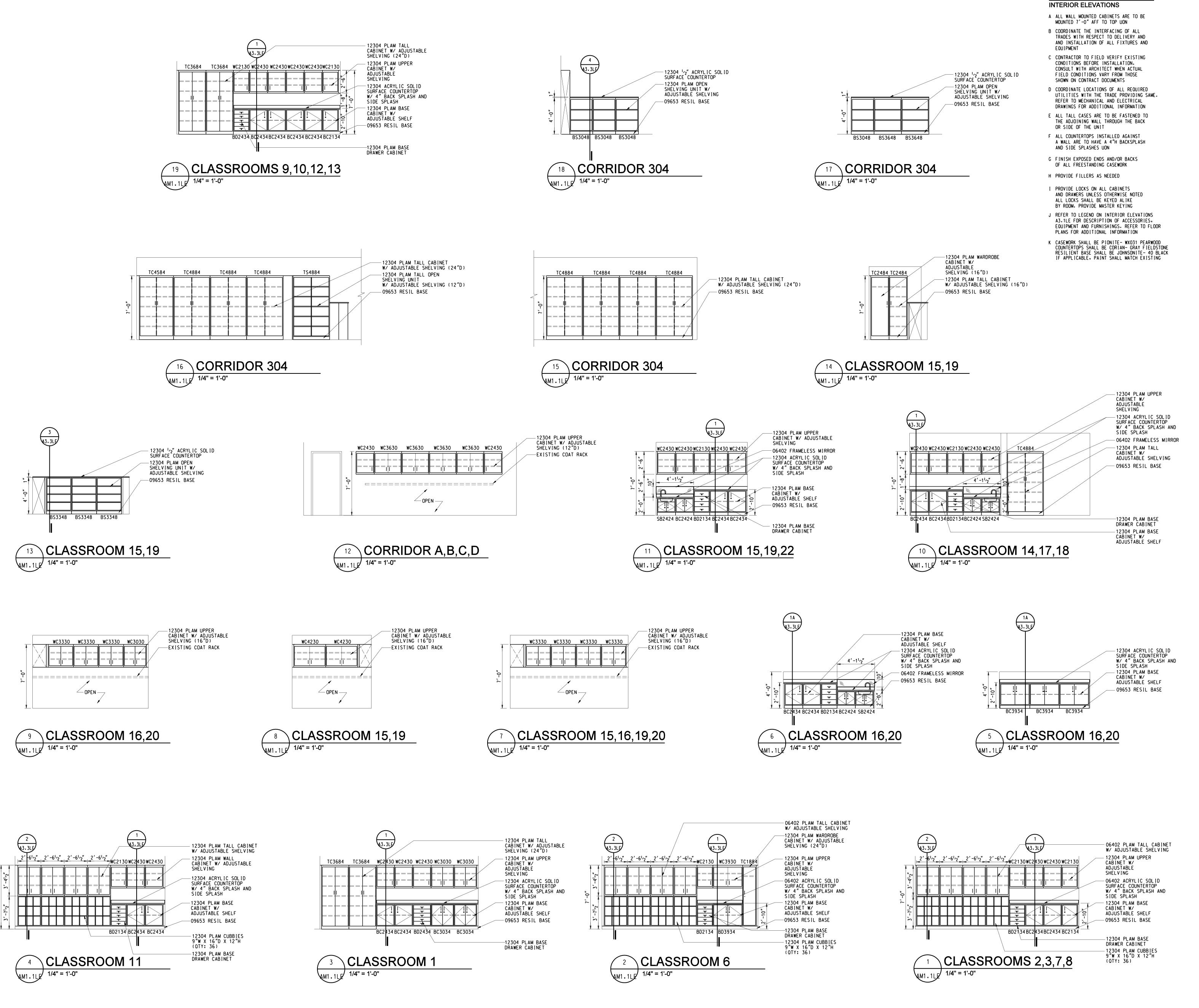
2. REFERENCE DETAIL 3/A2.1CE FOR LOCKER CENTER FILLER PANEL PLAN DETAIL.











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Project Title



LINDEN COMMUNITY SCHOOLS

2013 Sinking Fund Projects

Linden, Michigan

Key Plan

Seal:
•
•
Signature:
Date:

Issue Date: Issued for: **Quality Management Review** 03-15-13

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IDS Drawing Title

Linden Elementary Classroom Storage **Elevations**

IDS Project Number

INTERIOR ELEVATIONS

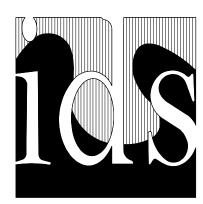
- A ALL WALL MOUNTED CABINETS ARE TO BE MOUNTED 7'-O" AFF TO TOP UON
- B COORDINATE THE INTERFACING OF ALL TRADES WITH RESPECT TO DELIVERY AND AND INSTALLATION OF ALL FIXTURES AND EQUIPMENT
- C CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS BEFORE INSTALLATION. CONSULT WITH ARCHITECT WHEN ACTUAL FIELD CONDITIONS VARY FROM THOSE SHOWN ON CONTRACT DOCUMENTS
- D COORDINATE LOCATIONS OF ALL REQUIRED UTILITIES WITH THE TRADE PROVIDING SAME. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION
- DRAWINGS FOR ADDITIONAL INFORMATION

 E ALL TALL CASES ARE TO BE FASTENED TO
 THE ADJOINING WALL THROUGH THE BACK
 OR SIDE OF THE UNIT
- OR SIDE OF THE UNIT

 F ALL COUNTERTOPS INSTALLED AGAINST
 A WALL ARE TO HAVE A 4"H BACKSPLASH
- G FINISH EXPOSED ENDS AND/OR BACKS OF ALL FREESTANDING CASEWORK

AND SIDE SPLASHES UON

- H PROVIDE FILLERS AS NEEDED
- I PROVIDE LOCKS ON ALL CABINETS AND DRAWERS UNLESS OTHERWISE NOTED ALL LOCKS SHALL BE KEYED ALIKE BY ROOM. PROVIDE MASTER KEYING
- J REFER TO LEGEND ON INTERIOR ELEVATIONS
 A3.1LE FOR DESCRIPTION OF ACCESSORIES.
 EQUIPMENT AND FURNISHINGS. REFER TO FLOOR
 PLANS FOR ADDITIONAL INFORMATION
- K CASEWORK SHALL BE PIONITE- WXO31 PEARWOOD COUNTERTOPS SHALL BE CORIAN- GRAY FIELDSTONE RESILIENT BASE SHALL BE JOHNSONITE- 40 BLACK IF APPLICABLE, PAINT SHALL MATCH EXISTING



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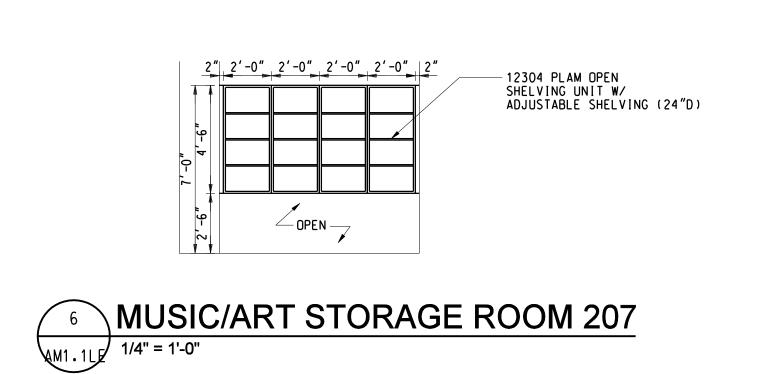


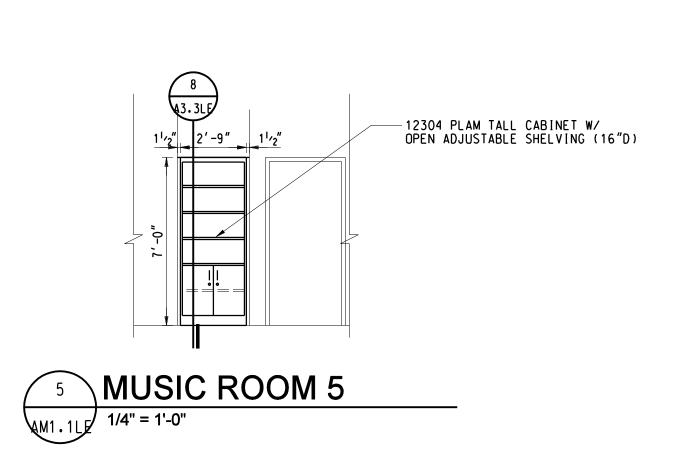
LINDEN COMMUNITY SCHOOLS

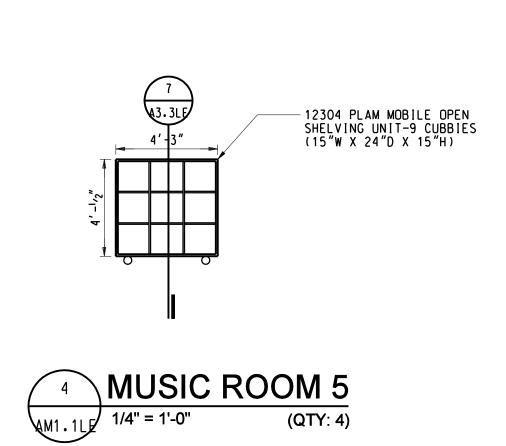
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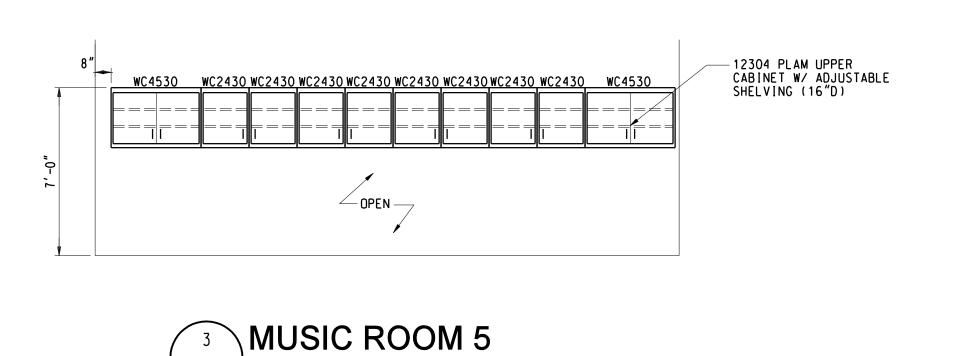
Linden, Michigan

Key Plan

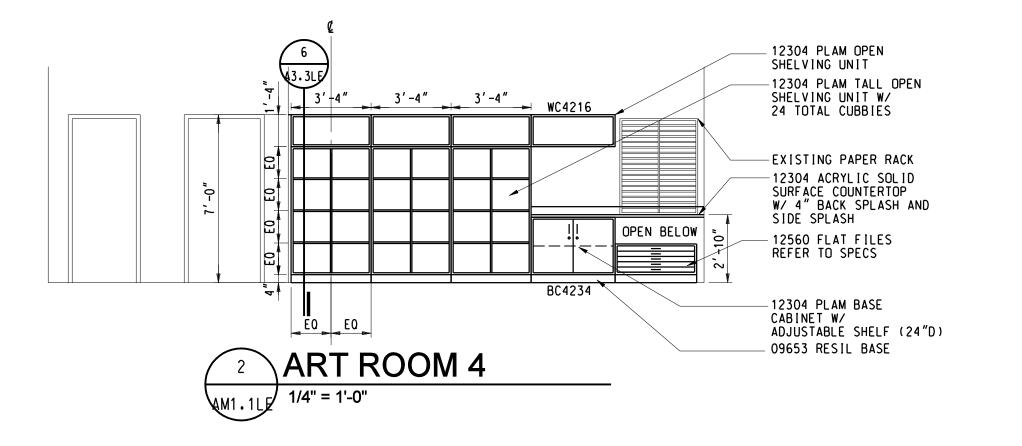


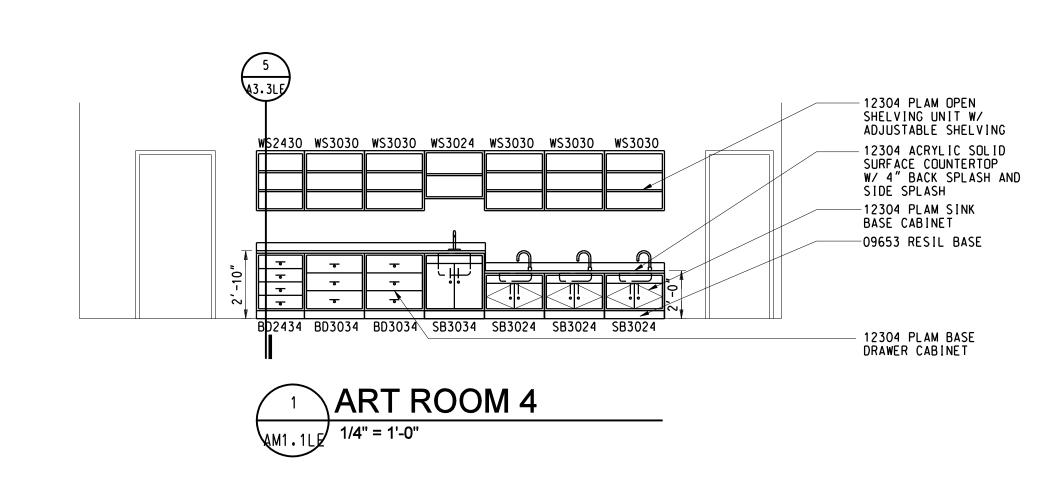






AM1.1LF 1/4" = 1'-0"





Project Administrator:
K. Delzer

Project Designer:
B. Ingham

Project Architect / Engineer:
B. Ingham

Drawn By:
B. Ingham

Q.M. Review:
K. Delzer

Approved:
K. Delzer

Drawing Scale:
As Noted

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03-15-13 Bids

Linden Elementary Classroom Storage Elevations and Details

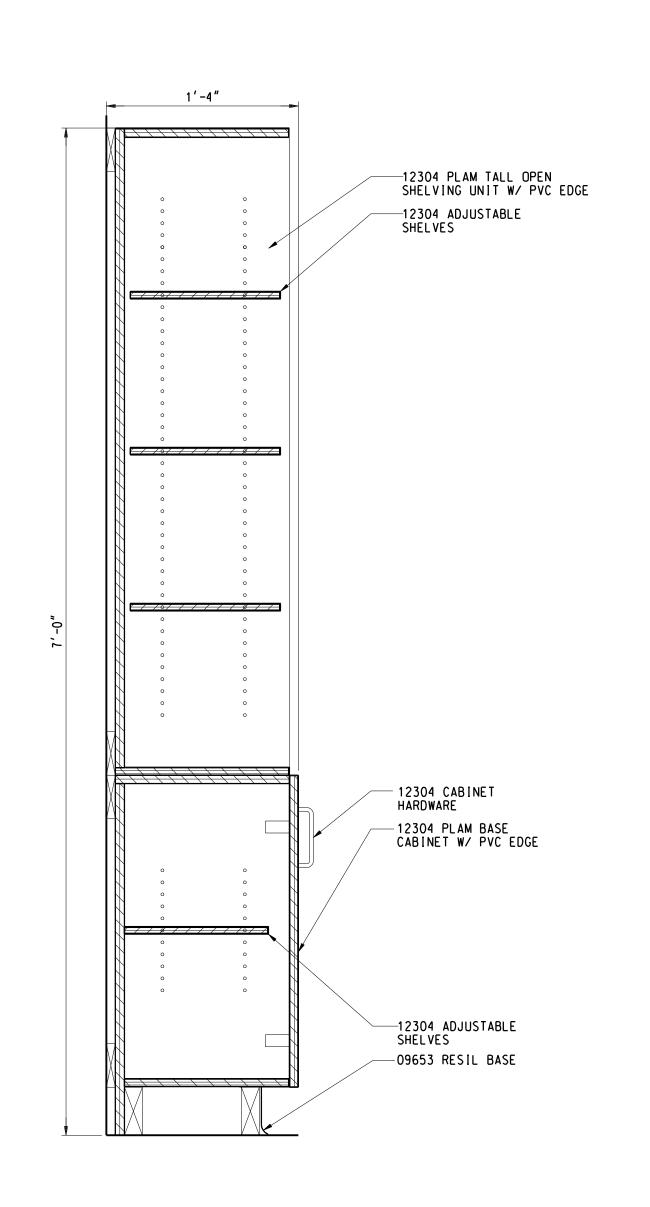
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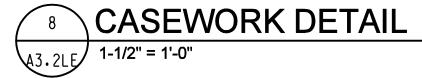
IDS Drawing Title

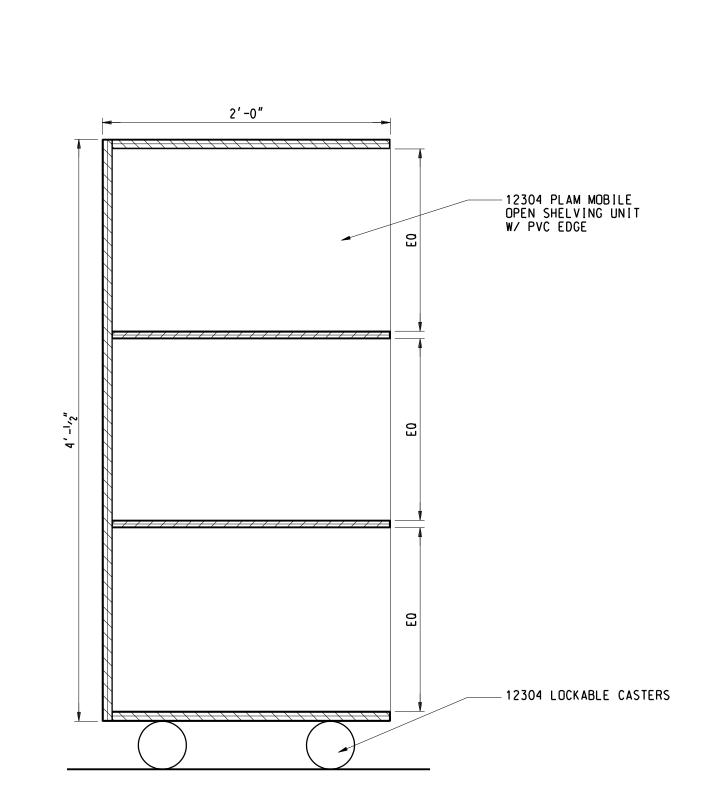
IDS Project Number

Number Drawing Number

1-1000 A3.2L

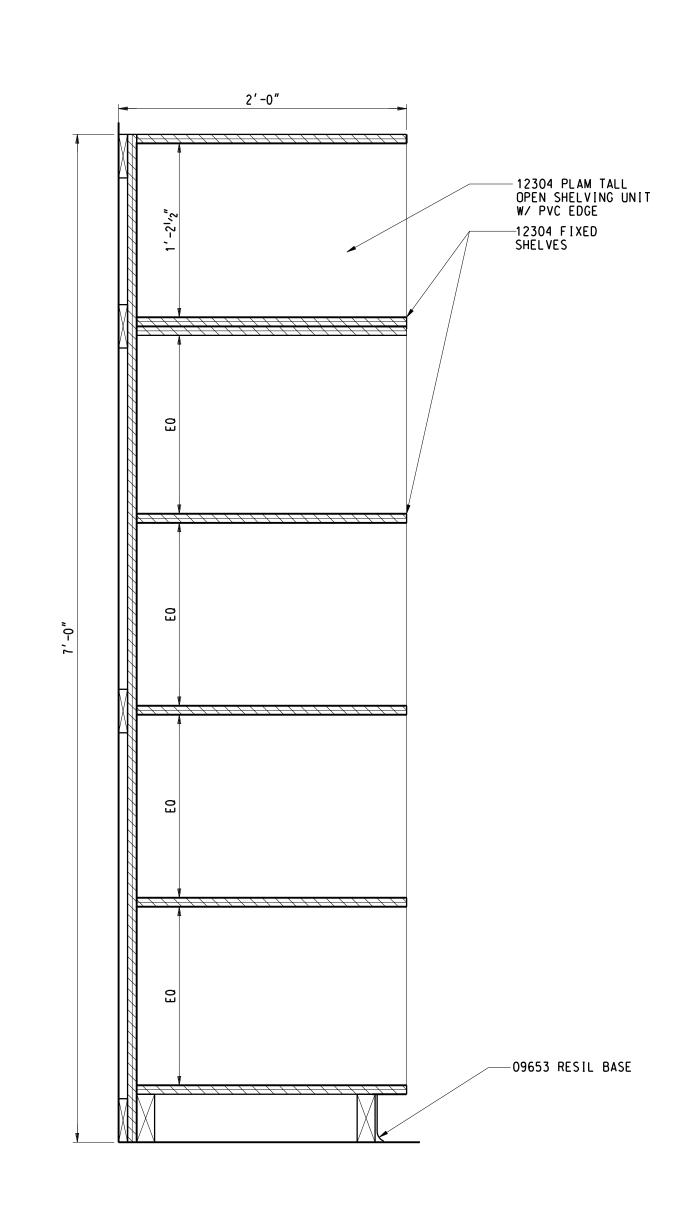






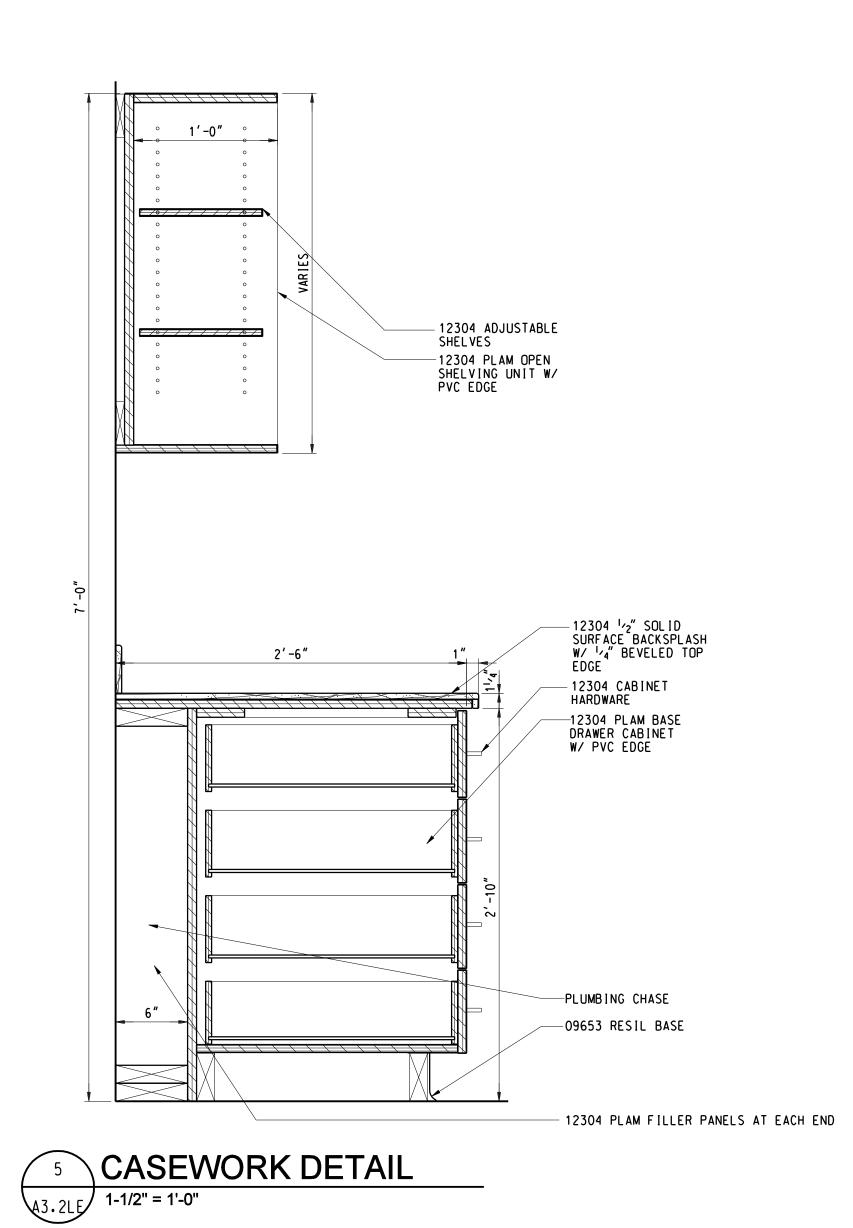
MOBILE CUBBY UNIT DETAIL

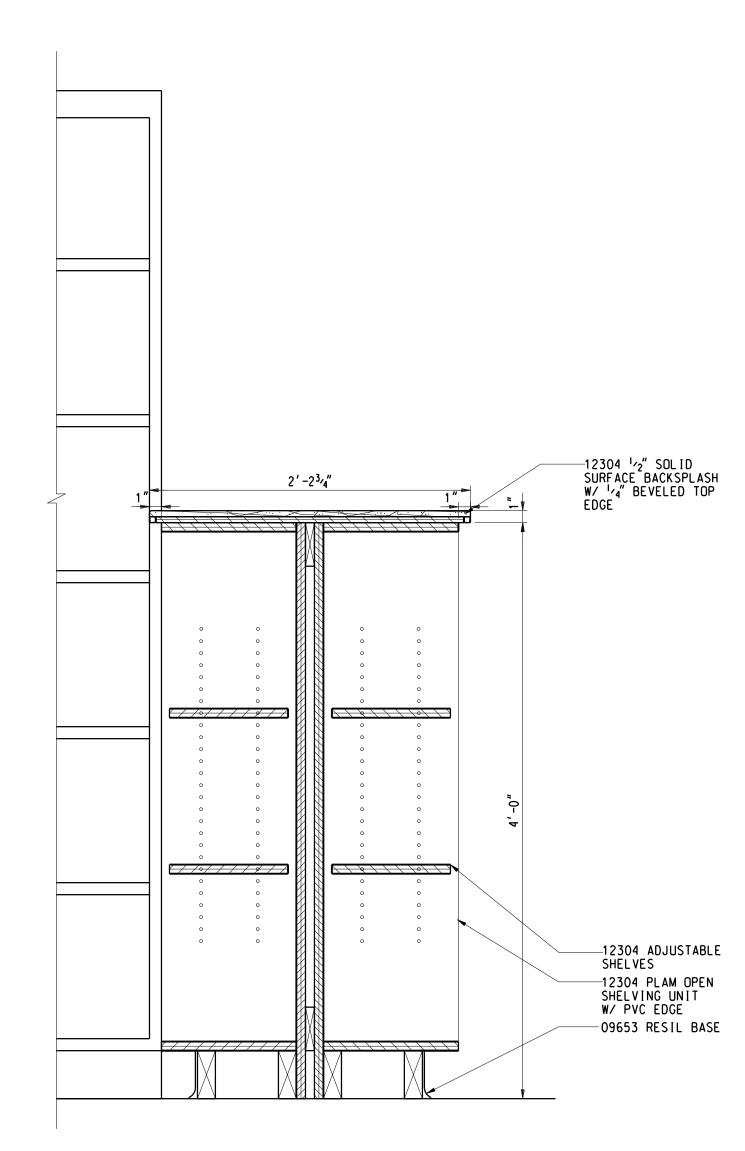
A3.2LE 1-1/2" = 1'-0"



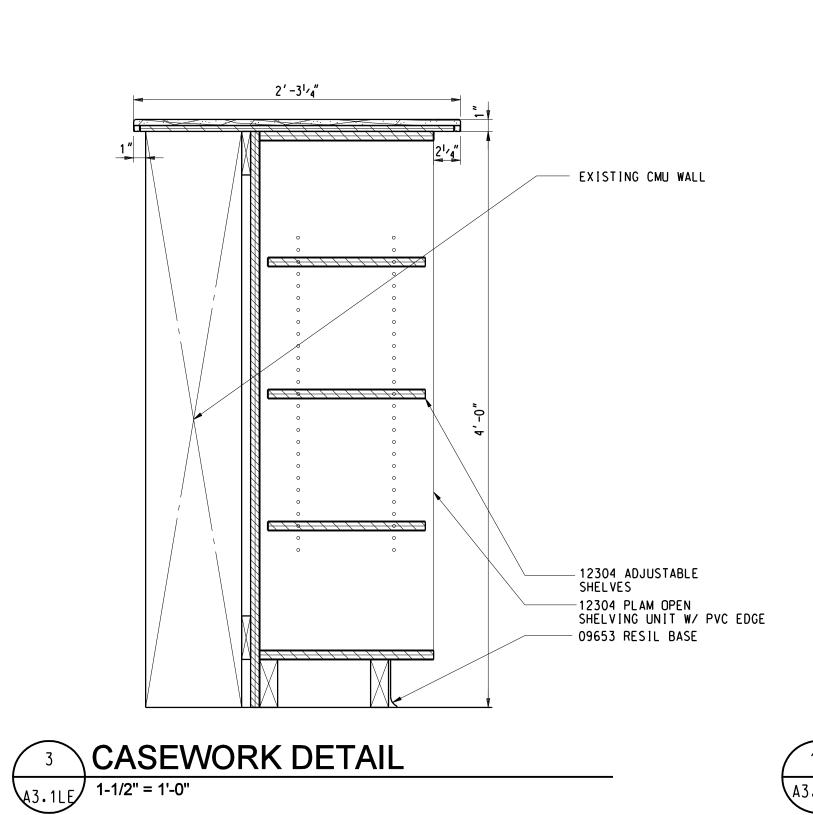
6 CASEWORK DETAIL

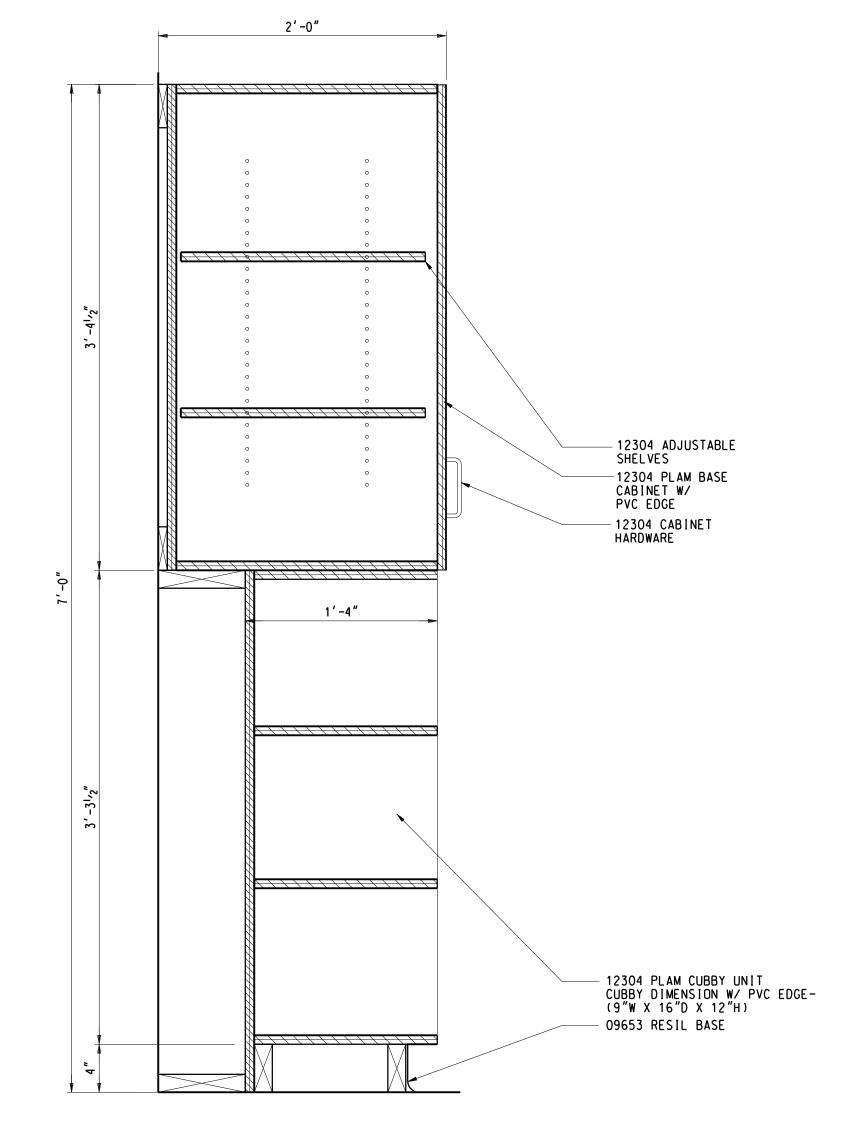
1-1/2" = 1'-0"



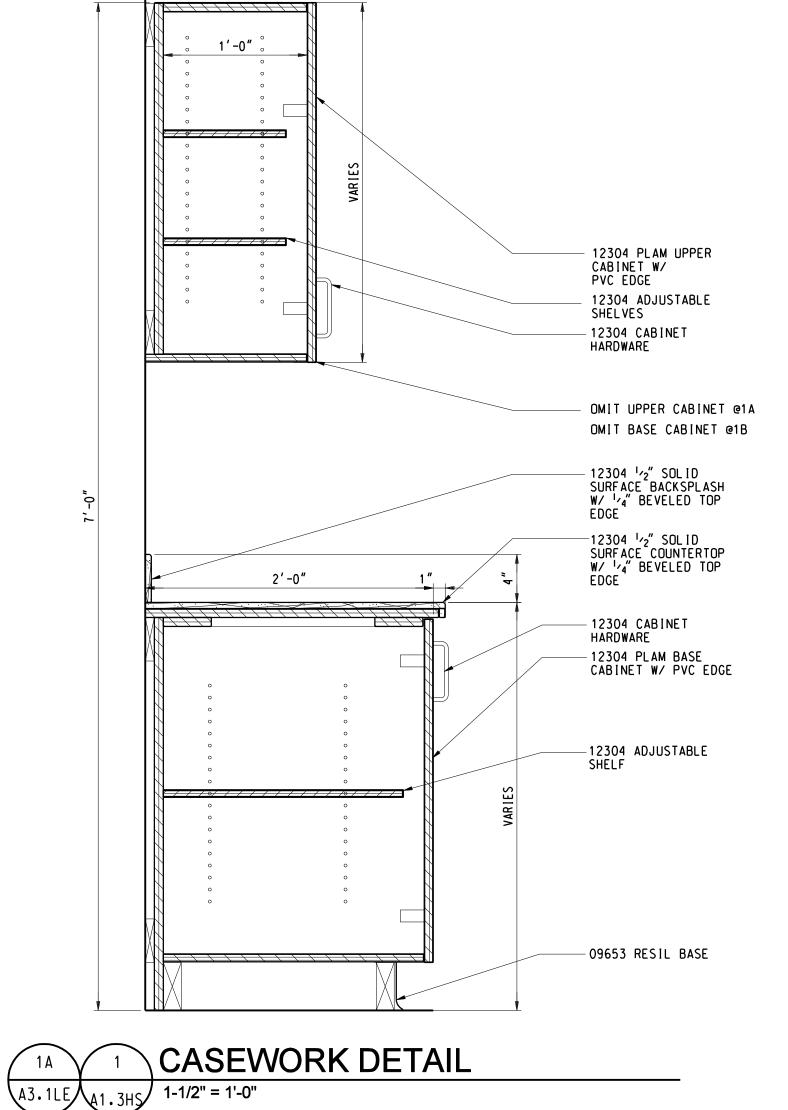


4 CASEWORK DETAIL
A3.1LE 1-1/2" = 1'-0"









A3.1LE



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SCHOOLS
2013 Sinking Fund Projects

Linden, Michigan

Key Plan

Project Administrator:
K. Delzer
Project Designer:
B. Ingham
Project Architect / Engineer:
B. Ingham
Drawn By:
B. Ingham
Q.M. Review:
K. Delzer
Approved:
K. Delzer
Drawing Scale:
As Noted

Issue Date: Issued for:
03-11-13 Quality Management Review

03-15-13 Bids

Linden Elementary Classroom Storage Details

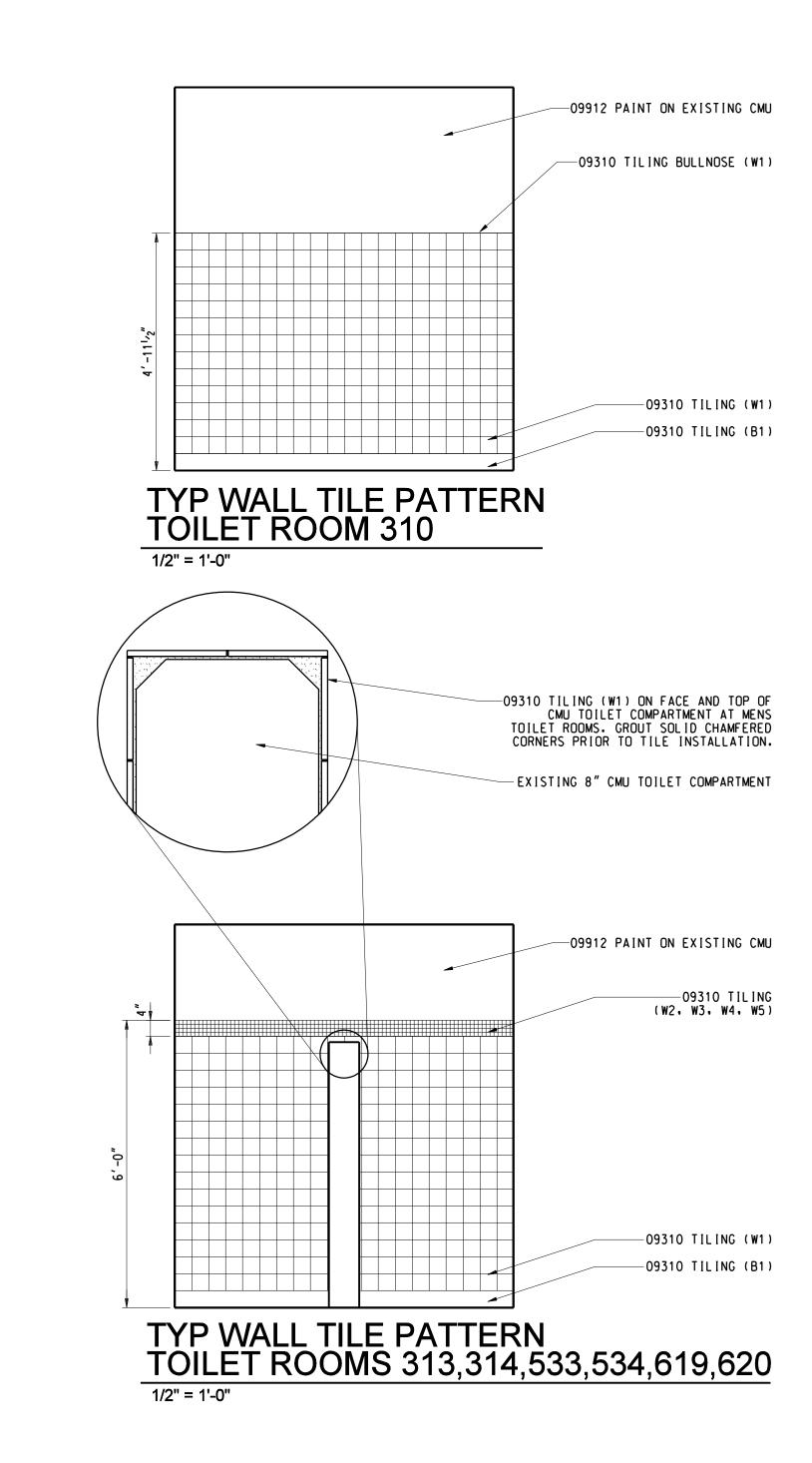
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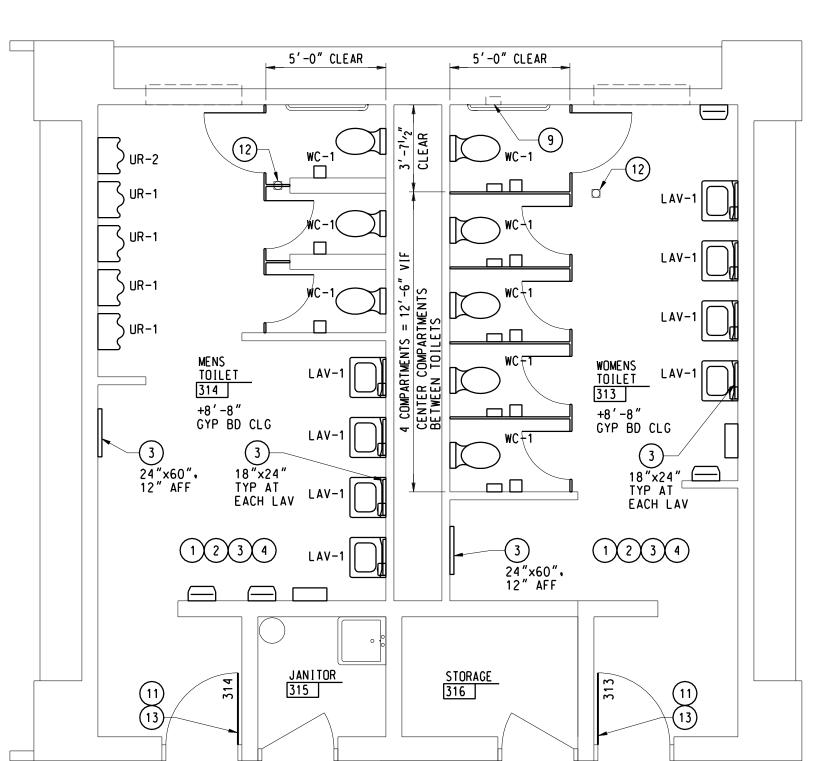
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IDS Project Number

Number Drawing Number

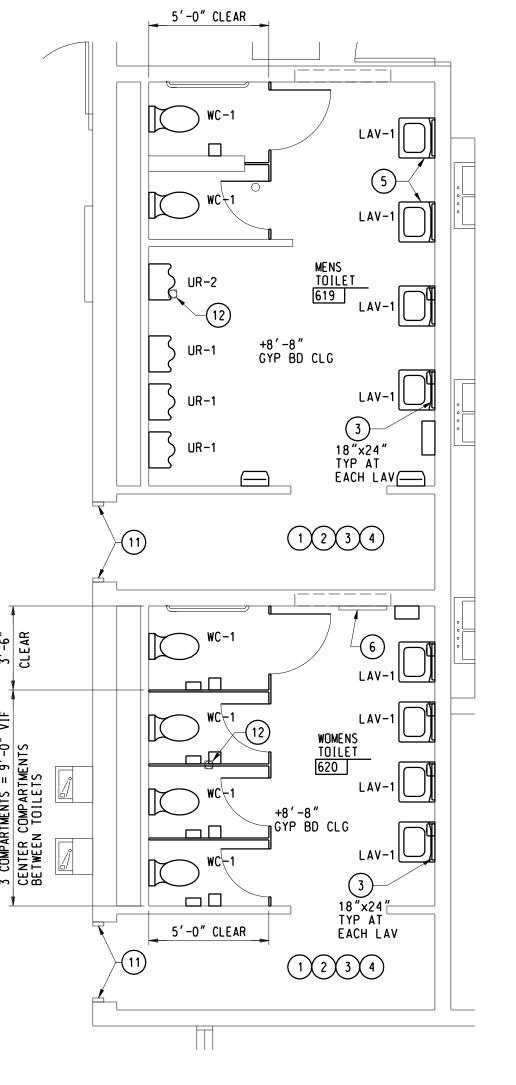
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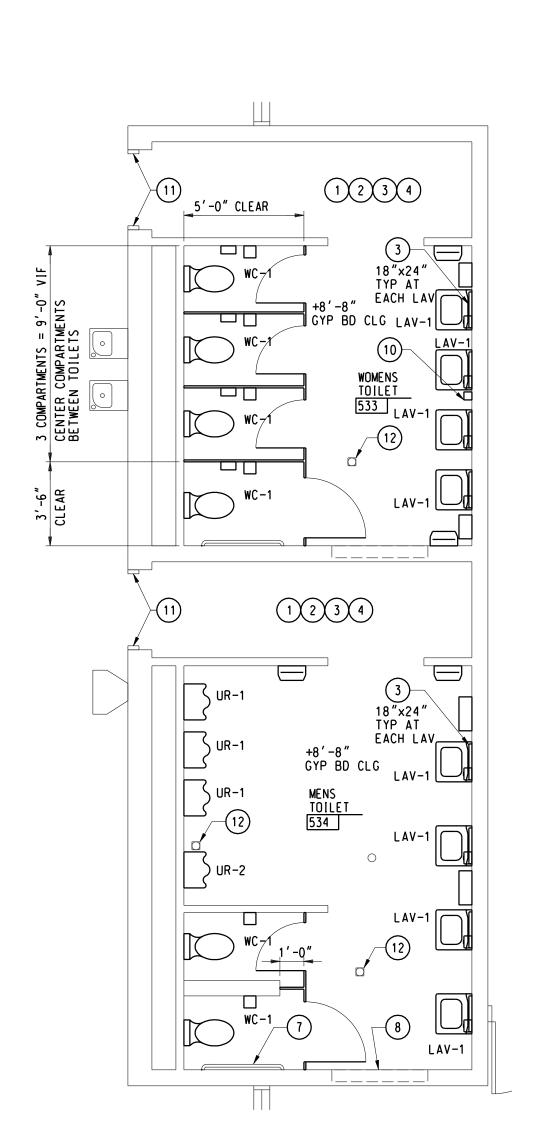


TOILET ROOMS 313 AND 314
DEMO/NEW WORK FLOOR PLAN

1/4" = 1'-0" REF DETAIL 1 THIS DWG FOR TYP NOTES







TOILET ROOMS 533 AND 534 DEMO/NEW WORK FLOOR PLAN

- A. THE GENERAL INTENT OF THIS WORK IS TO 1) REPLACE ALL EXISTING TOILET ROOM FIXTURES AND TOILET COMPARTMENTS WITH NEW FIXTURES AND TOILET COMPARTMENTS IN EXISTING LOCATIONS WITH FIXTURES SECURED TO EXISTING CARRIERS AND CONNECTED TO EXISTING UTILITIES 2) REPLACE MOST EXISTING ACCESSORIES WITH NEW ACCESSORIES 3) INSTALL NEW FINISHES INCLUDING DEMOLITION OF SOME EXISTING FINISHES
- B. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS AND CONDITIONS.
 C. CONTINUOUSLY MAINTAIN ALL MEANS OF EGRESS AND ALL FIRE PROTECTION FEATURES FOR PORTIONS OF THE BUILDING THAT
- REMAIN OCCUPIED DURING CONSTRUCTION

 D. PROTECT ALL EXISTING FINISHES DURING CONSTRUCTION
- E. ALL DEMOLITION WORK REQUIRED IS NOT NECESSARILY LIMITED TO WHAT IS SHOWN ON THE DEMOLITION PLANS. THE INTENT IS TO REMOVE ALL MECHANICAL. ELECTRICAL. AND ARCHITECTURAL ITEMS AS REQUIRED TO FACILITATE NEW CONSTRUCTION
- F. COORDINATE SCOPE AND EXTENT OF DEMOLITION WORK WITH NEW WORK PLANS AND DETAILS
- G. PATCH AND/OR REPAIR ALL EXISTING FLOOR, WALL AND/OR CEILING FINISHES AS REQUIRED TO MATCH EXISTING OR TO ACCEPT NEW FINISHES AS SCHEDULED AT ALL AREAS AFFECTED BY THE DEMOLITION WORK. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL

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KEYNOTES

NOTE: NOT ALL KEYNOTES MAY BE USED

- OWNER WILL PROVIDE ALL ELECTRICAL WORK, DEMOLITION AND NEW,
 INCLUDING BUT NOT LIMITED TO:
 ELECTRIC HAND DRYERS
 LIGHT FIXTURES
 SWITCHES
 ELECTRICAL DEVICE COVER PLATES
 CLEANING AND RELAMPING OF LIGHT FIXTURES
- CLEANING AND RELAMPING OF LIGHT FIXTURES

 DEMOLITION WORK SHALL INCLUDE REMOVAL OF ALL:
 FLOOR AND WALL BASE TILE
- MIRRORS
 LAVATORIES. FAUCETS AND TRAPS
 WATER CLOSETS AND FLUSH VALVES
 URINALS AND FLUSH VALVES
 FLOOR AND WALL CLEANOUT COVERS
 TOILET COMPARTMENTS
 WALL MOUNTED DOOR BUMPERS
 SOAP DISPENSERS
 TOILET PAPER DISPENSERS
 TOWEL DISPENSERS
- NEW WORK SHALL INCLUDE:
 09310 CERAMIC TILE
 09912 PAINT
- 10155 TOILET COMPARTMENT
 10801 FRAMED MIRROR (SIZE AS NOTED ON PLAN WxH)
 10801 SANITARY NAPKIN DISPOSAL (TYP AT EACH FEMALE WC COMPARTMENT)
 15000 LAVATORY (LAV-1) AND FAUCET (LF-1)
 15000 WATER CLOSET (WC-1) AND FLUSH VALVE (FV-1)
 15000 URINAL (UR-1) AND FLUSH VALVE (FV-2)
 15000 WALL CLEANOUT COVER (WCC-1)
- OWNER SHALL PROVIDE AND INSTALL:
 SOAP DISPENSER
 TOWEL DISPENSER
 TOILET PAPER DISPENSER
 ELECTRIC HAND DRYER
- NO EXISTING LAVATORIES AT THIS LOCATION. REMOVE AND PATCH EXISTING CMU FOR CONNECTION TO EXISTING PLUMBING AND ANCHORS IN PARTITION.
- 6 EXISTING COVER BOARD TO REMAIN
- EXISTING GRAB BAR TO REMAIN. INSTALL 09310 CERAMIC TILE OVER MOUNTING PLATE AND COVER WITH EXISTING ESCUTCHEON PLATE.
- 8 EXISTING CONVECTOR TO REMAIN WITH 09912 PAINT
- 9 EXISTING SANITARY NAPKIN DISPOSAL TO REMAIN
- (10) EXISTING AIR FRESHENER TO REMAIN

 (11) EXISTING HOLLOW METAL DOOR FRAME TO REMAIN WITH 09912 PAINT (MATCH
- EXISTING)

 EXISTING

 EXISTING

 EXISTING

 EXISTING FLOOR DRAIN COVER TO REMAIN. CLEAN OUT EXISTING FLOOR DRAIN AND ROUT OUT DRAINAGE PIPING AS REQUIRED FOR A MINIMUM OF FIFTY (50) LINEAL FEET TO REMOVE ANY AND ALL BLOCKAGES AND RE-ESTABLISH PROPER DRAINAGE. AFTER CLEANING, TEST FLOOR DRAIN IN PRESENCE OF OWNER'S REPRESENTATIVE BY FLOODING WITH GARDEN HOSE FOR APPROXIMATELY 15 MINUTES OR UNTIL PROPER DRAINAGE CONFIRMED.
- REMOVE WOOD DOOR AND HARDWARE AND PROVIDE 08211 FLUSH WOOD DOOR, 3'-0" x 7'-2" (NOMINAL), 134" THICK WITH HARDWARE SET HS1

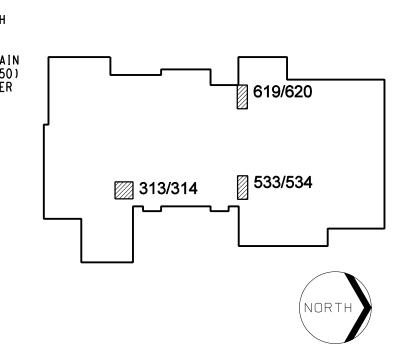


LINDEN COMMUNITY SCHOOLS

2013 Sinking Fund Projects

Linden, Michigan

Key Plan



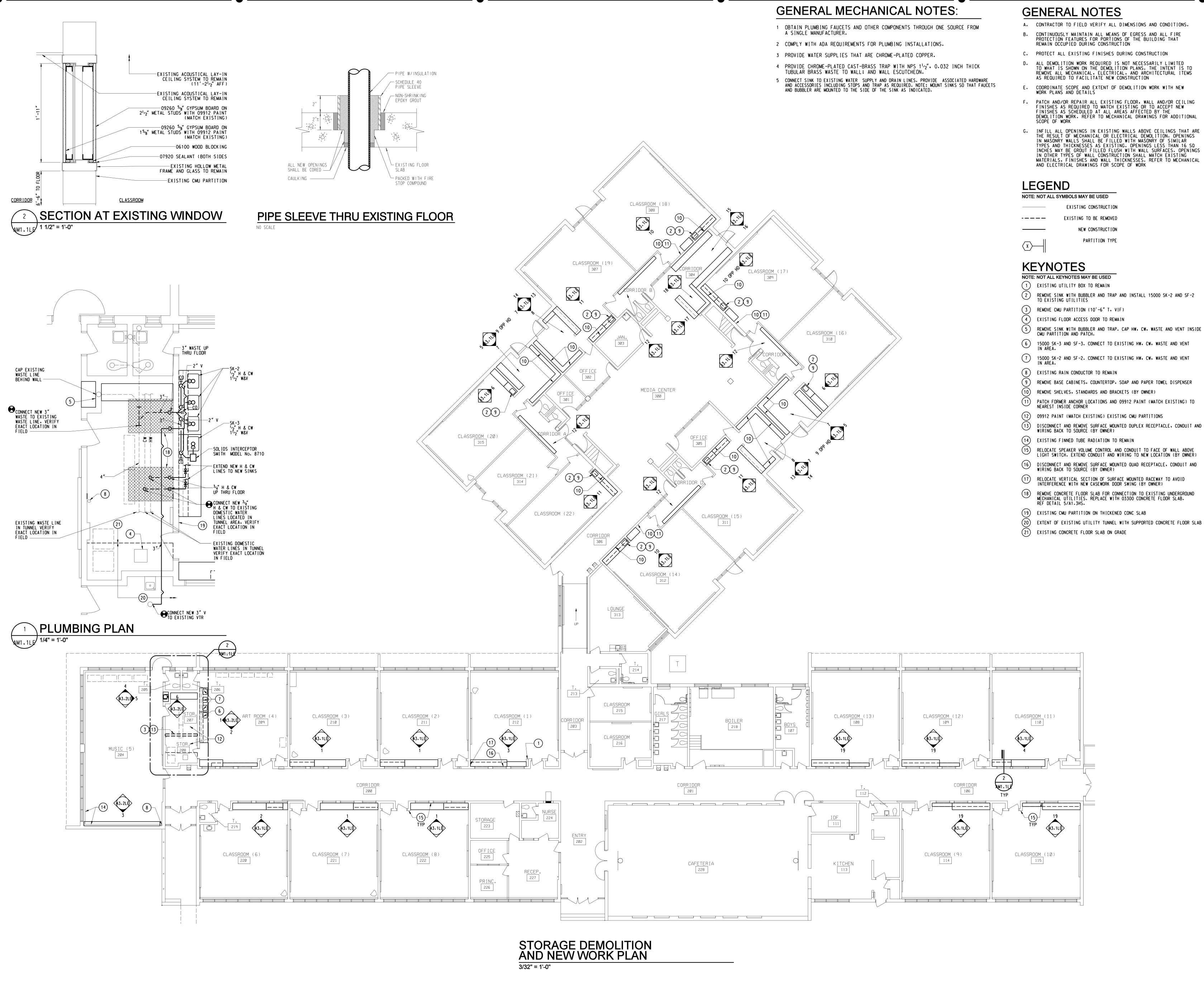
Project Administr K. Delzer	ator:	Seal:
Project Designer: B. Ingham	:	
Project Architect B. Ingham	/ Engineer:	
Drawn By: B. Ingham		
Q.M. Review: K. Delzer		
Approved: K. Delzer		Signature:
Drawing Scale: As Noted		Date:
Issue Date:	Issued fo	or:
		danaanant Davis
03-11-13	Quality I	Management Reviev
	Quality I Bids	vanagement Reviev
		vanagement Reviev
		vanagement Reviev
03-11-13 03-15-13		vanagement Reviev

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IDS Drawing Title

High School Toilet Room Upgrades and Fixture Replacements

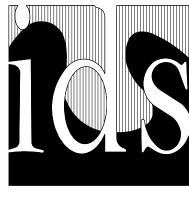
IDS Project Number

13101-1000 AM1.1HS



- A. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS AND CONDITIONS.
 - CONTINUOUSLY MAINTAIN ALL MEANS OF EGRESS AND ALL FIRE PROTECTION FEATURES FOR PORTIONS OF THE BUILDING THAT
 - C. PROTECT ALL EXISTING FINISHES DURING CONSTRUCTION
 - D. ALL DEMOLITION WORK REQUIRED IS NOT NECESSARILY LIMITED TO WHAT IS SHOWN ON THE DEMOLITION PLANS. THE INTENT IS TO REMOVE ALL MECHANICAL, ELECTRICAL, AND ARCHITECTURAL ITEMS AS REQUIRED TO FACILITATE NEW CONSTRUCTION
 - COORDINATE SCOPE AND EXTENT OF DEMOLITION WORK WITH NEW WORK PLANS AND DETAILS

 - INFILL ALL OPENINGS IN EXISTING WALLS ABOVE CEILINGS THAT ARE THE RESULT OF MECHANICAL OR ELECTRICAL DEMOLITION. OPENINGS IN MASONRY WALLS SHALL BE FILLED WITH MASONRY OF SIMILAR TYPES AND THICKNESSES AS EXISTING. OPENINGS LESS THAN 16 SO INCHES MAY BE GROUT FILLED FLUSH WITH WALL SURFACES. OPENINGS IN OTHER TYPES OF WALL CONSTRUCTION SHALL MATCH EXISTING MATERIALS. FINISHES AND WALL THICKNESSES. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR SCOPE OF WORK



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- REMOVE SINK WITH BUBBLER AND TRAP. CAP HW. CW. WASTE AND VENT INSIDE
- 6 15000 SK-3 AND SF-3. CONNECT TO EXISTING HW. CW. WASTE AND VENT
- REMOVE BASE CABINETS, COUNTERTOP, SOAP AND PAPER TOWEL DISPENSER
- REMOVE SHELVES. STANDARDS AND BRACKETS (BY OWNER)

- RELOCATE VERTICAL SECTION OF SURFACE MOUNTED RACEWAY TO AVOID INTERFERENCE WITH NEW CASEWORK DOOR SWING (BY OWNER)
- (19) EXISTING CMU PARTITION ON THICKENED CONC SLAB
- EXTENT OF EXISTING UTILITY TUNNEL WITH SUPPORTED CONCRETE FLOOR SLAB

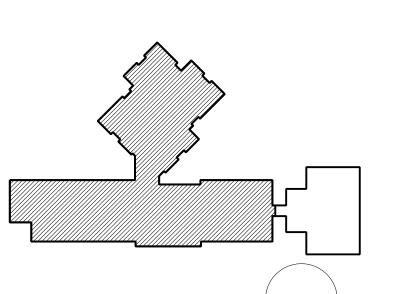


LINDEN COMMUNITY **SCHOOLS**

2013 Sinking Fund Projects

Linden, Michigan

Key Plan



Project Administrator: K. Delzer	Seal:	
Project Designer: B. Ingham		
Project Architect / Engineer: B. Ingham		
Drawn By: B. Ingham		
Q.M. Review:		

Signature: K. Delzer Drawing Scale: As Noted Issue Date: Issued for:

K. Delzer

Quality Management Review 03-15-13

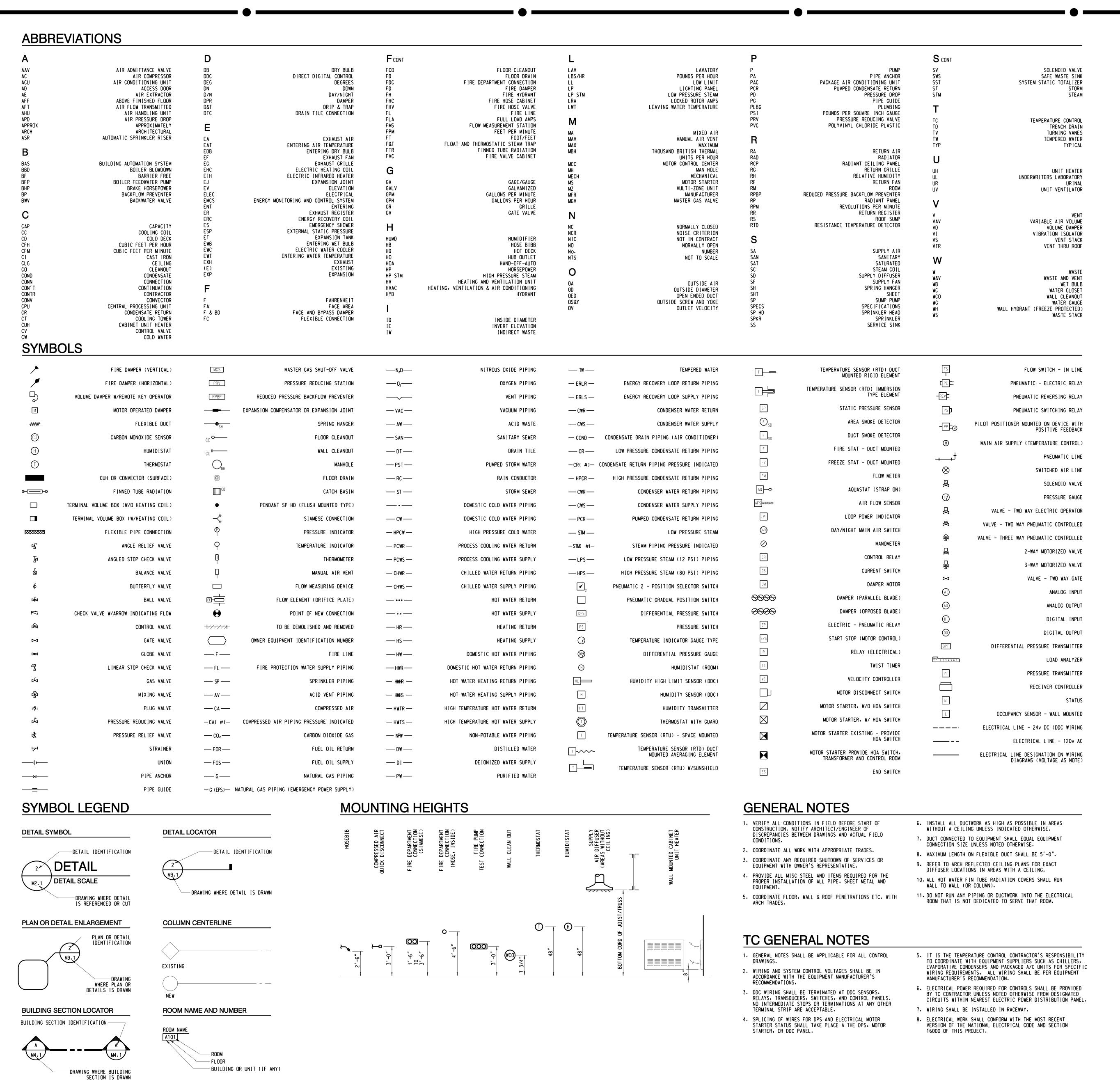
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Linden Elementary Classroom Storage Demolition and New Work Plan

IDS Project Number

Drawing Number

13101-1000 **AM1.1LE**



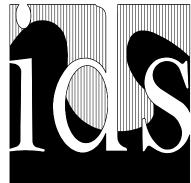
NOTATION METHODS

SUPPLY DIFFUSER, TYPE 'A' 350 CFM SUPPLY DIFFUSER (3-WAY) RETURN OR EXHAUST REGISTER TYPE 'A' 350 CFM EXHAUST REGISTER TYPE 'A' 350 CFM SD-A 350 CFM SIDEWALL SUPPLY REGISTER TYPE 'A' 350 CFM SUPPLY AIR DIFFUSER \$D-A 350 CFM TYPE 'A' WITH FLEXIBLE DUCT CONNECTION (TWO WAY THROW) BELL MOUTH AIR INLET AREA EQUAL ¬/--> **>** WILL BE 2 TIMES DUCT AREA AIR HANDLING UNIT NO.1 EXHAUST FAN No.1 SUPPLY AIR BRANCH CONNECTION SPIN - IN FITTING WITH VOLUME DAMPER RETURN AIR/EXHAUST AIR BRANCH CONNECTION WITH VOLUME DAMPER SOUND TRAP (ATTENUATOR) FINNED TUBE RADIATION TYPE 'A' 5'-0" ELEMENT 5.7 TOTAL MBH (REFER TO EQUIPMENT SCHEDULES) CABINET UNIT HEATER, TYPE 'A' CONVECTOR, TYPE 'A' TERMINAL VARIABLE VOLUME BOX, TYPE 'A' - SIZE '1'
(HEATING COIL, REFER TO EQUIPMENT SCHEDULES) TERMINAL VARIABLE VOLUME BOX, TYPE 'B' - SIZE '1' TERMINAL VARIABLE VULUME BUX, TIFE B - 312L T [A3] DUAL DUCT CONSTANT VOLUME MIXING BOX (REFER TO EQUIPMENT SCHEDULES) HEATING COIL, TYPE 'A' (REFER TO EQUIPMENT SCHEDULES) POINT WHERE CHANGE IN DUCT SIZE OR PIPE PITCH TAKES PLACE POINT OF NEW CONNECTION NEW MECHANICAL EXISTING MECHANICAL

MECHANICAL DRAWING INDEX

M0.1 MECHANICAL REFERENCE INFORMATION

M2.1HS MECHANICAL DEMOLITION AND NEW WORK FLOOR PLANS, SCHEDULES, DETAILS AND TEMPERATURE CONTROLS



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Project Title

LINDEN COMMUNITY SCHOOLS

2013 Sinking Fund Projects

Linden, Michigan

Key Plan

THIS SHEET.

THIS PROJECT MAY NOT UTILIZE ALL THE SYMBOLS, MATERIALS, ABBREVIATIONS AND STANDARD INFORMATION SHOWN ON

Project Administrator: K. Delzer **Project Designer:** C. Watts Project Architect / Engineer: C. Watts Drawn By: C. Watts Q.M. Review: D. DiCiuccio Signature: D. DiCiuccio Drawing Scale: Date: Issue Date: Issued for: 03-11-13 **Quality Management Review** 03-14-13 Plan Review 03-15-13 Bids

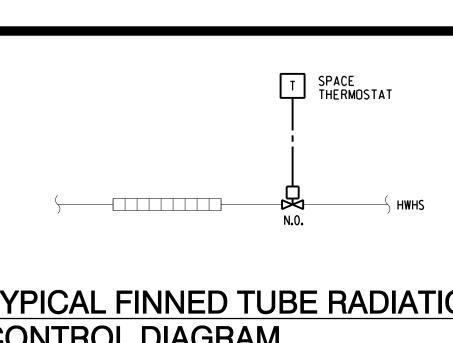
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IDS Drawing Title

Mechanical Reference Information

IDS Project Number

13101-1000



TYPICAL FINNED TUBE RADIATION **CONTROL DIAGRAM**

- ACCESSIBLE CEILING

HEATING ELEMENT-

DOWNFED FINNED TUBE

BALANCING VALVE----

FLOW MEASURING -

SEQUENCE OF OPERATION:

— GATE VALVE (TYP)

_UNION (TYP.)

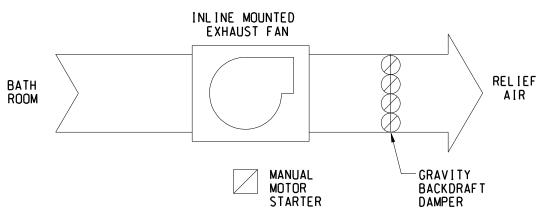
UNION (TYP.)

┌┷╢┝╳╢╟┈┤

— CONTROL VALVE

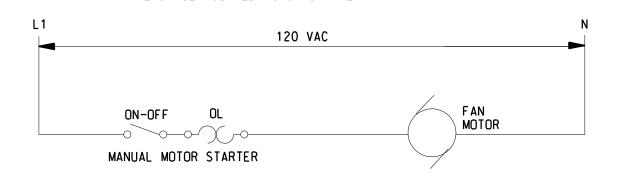
(WHERE APPLICABLE)

ELECTRIC SPACE THERMOSTAT SHALL MODULATE HWHS CONTROL VALVE TO MAINTAIN SPACE TEMPERATURE SETTING.

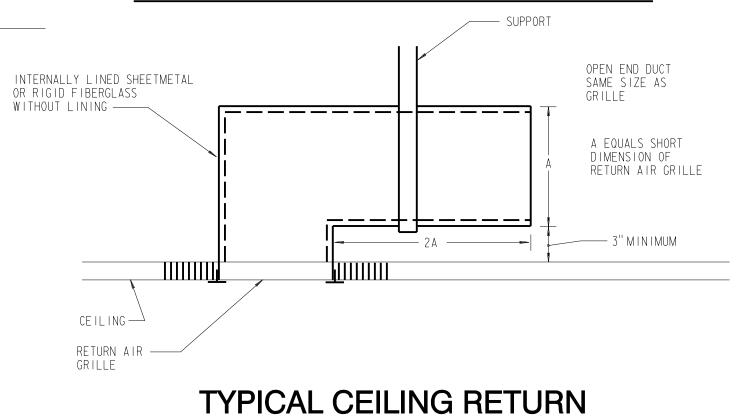


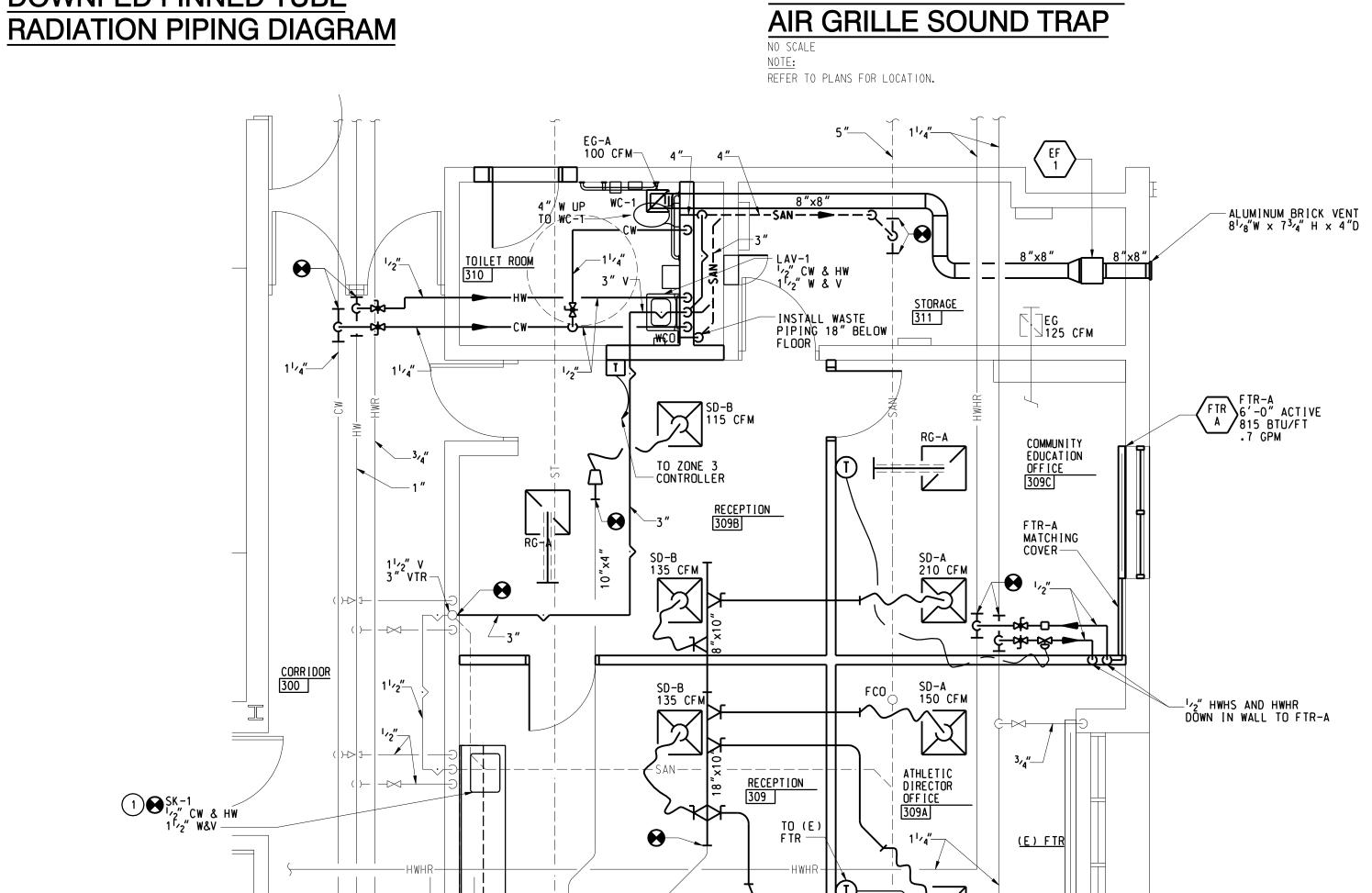
EXHAUST FAN EF-1	
CONTROL DIAGRAM	

SEQUENCE OF OPERATION: THE EXHAUST FAN IS MANUALLY STARTED AND STOPPED AT THE SPACE MOUNTED MOTOR STARTER.



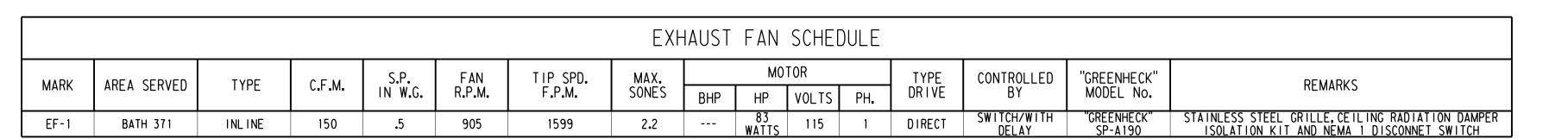
EXHAUST FAN EF-1 MOTOR STARTER WIRING DETAIL





TO ZONE 5 CONTROLLER-

NEW WORK FLOOR PLAN 1/4" = 1'-0"



1. PROVIDE EF-2 WITH SOLID STATE SPEED CONTROL - 5WSSC.

KEYNOTES

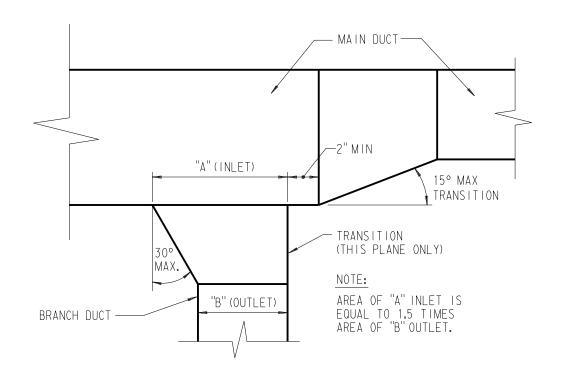
CONNECT SINK TO EXISTING WATER SUPPLY AND DRAIN LINES. PROVIDE ASSOCIATED HARDWARE AND ACCESSORIES INCLUDING STOPS AND TRAP AS REQUIRED.

HOT WATER FINNED RADIATION SCHEDULE										
MADK	BTU PER LIN FT	ENCLOSURE	ENCLOSURE DIM (IN) ENCLO		ENCLOSURE ELEMENT DIM (IN)			No. OF "STERLING"	DEMARKS	
		HE I GHT	DEPTH	TYPE	TUBE	FIN W	FIN H	TIERS	MODEL No.	REMARKS
FTR-A	815	8	3 ⁹ /16	JVK-S8	3/4	23/4	21/2	1	R02	PROVIDE WITH END CAPS

FTR IS WALL TO WALL PROVIDE ALL ACCESSORIES NEEDED FOR A FINISHED LOOK. 200°F AVERAGE WATER TEMPERATURE. 2. 65°F ENTERING AIR TEMPERATURE UNLESS NOTED.

SUPPLY DUFFUSER SCHEDULE							
CFM RANGE FOR OMNI TYPE	NECK SIZE FOR	SD-A AND SD-B					
DIFFUSERS	ROUND	SQUARE					
0-200	6"	-					
201-350	8"	-					
351-500	10"	-					
501-700	12"	-					
701-900	14"	_					

GRILLE, REGISTER AND DIFFUSER SCHEDULE									
	MARK	CORE STYLE	BORDER FRAME TYPE	MODULE SIZE	FINISH	ACCESSORY	CONSTRUCTION	"PRICE" MODEL No.	REMARKS
	SD-A	SQUARE PLAQUE	LAY-IN	24"x24"	WHITE	-	STEEL	SPD	SURFACE MOUNT SQUARE PLAQUE DIFFUSERS IN AREAS WITH HARD CEILING
	SD-B	SQUARE PL AQUE	LAY-IN	24"x24"	WHITE	-	STEEL	VAR I THERM VPD-HC	PROVIDE DIFFUSER WITH PRESSURE REFIEF COLLAR
	RG-A	EGGCRATE	LAY-IN	24"x24"/ 24"x12"	WHITE	-	ALUMINUM	80	-
	RG-A	EGGCRATE	LAY-IN	12"x12"	WHITE		ALUMINUM	80	-

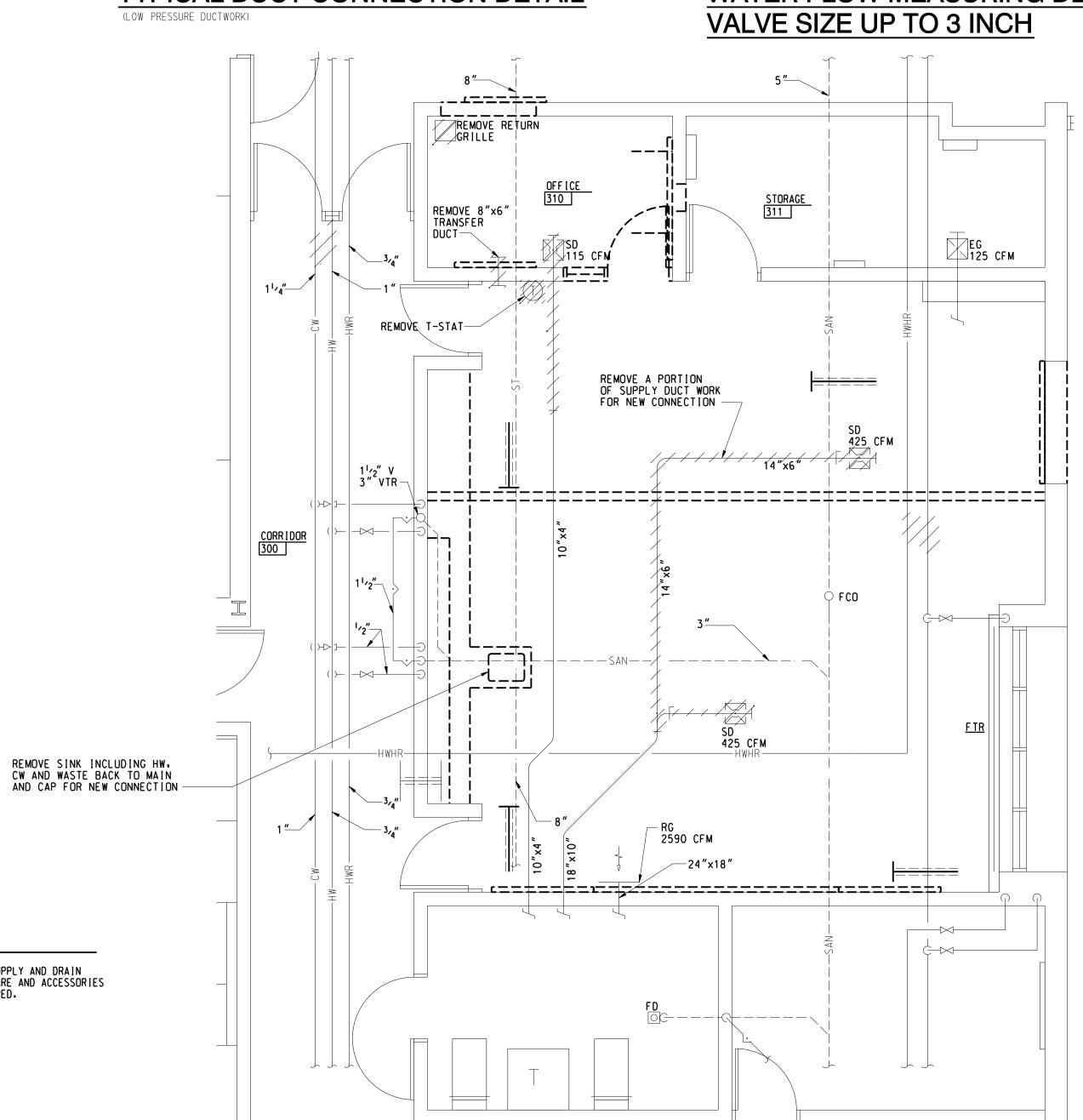


GPM	VALVE SIZE	
0.5 - 6.0	1/2 "	
6.1 - 11.0	3/4 "	
11.1 - 17.0	1"	
17.1 - 30.0	1¼ "	
30.1 - 40.0	1½"	
40.1 - 75.0	2"	
75.1 - 110	21/2 "	
110.1 - 150	3"	
_		— GATE VALE
├		
BALANCING VALVE WITH PRESSURE TAPS.SIZE ACCORDING TO SCHEDULE.	REDUCER	PLAN BRANCH LINE SIZE

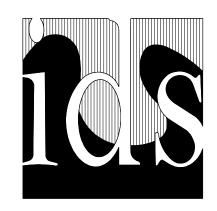
VALVE SIZING SCHEDULE

TYPICAL DUCT CONNECTION DETAIL

WATER FLOW MEASURING DEVICE FOR



DEMOLITION FLOOR PLAN 1/4" = 1'-0"



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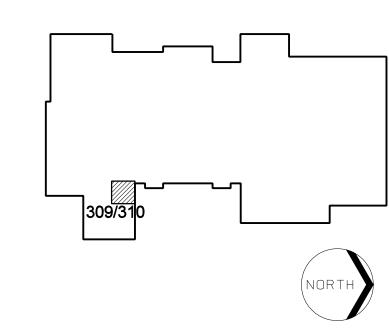


LINDEN COMMUNITY **SCHOOLS**

2013 Sinking Fund Projects

Linden, Michigan

Key Plan



Project Administr K. Delzer	ator:	Seal:
Project Designer: C. Watts		_
Project Architect C. Watts	/ Engineer:	-
Drawn By: C. Watts		_
Q.M. Review: D. DiCiuccio		_
Approved: D. DiCiuccio		Signature:
Drawing Scale: As Noted		Date:
Issue Date:	Issued	for:
03-11-13	Quality	Management Review
03-14-13	Plan Re	eview
03-15-13	Bids	

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Mechanical Demolition and New Work Floor Plans, Schedules, Details and Temperature Controls

IDS Project Number

13101-1000 M2.1HS

							EXH	HAUST	FAN SC	HEDULE				
MARK	AREA SERVED	TYPE	C.F.M.	S.P. IN W.G.	FAN R.P.M.	TIP SPD. F.P.M.	MAX. SONES	ВНР	MOTOR HP VOL	TS PH.	TYPE DRIVE	CONTROLLED BY	"GREENHECK" MODEL No.	REMARKS
EF-1	BATH 371	INLINE	150	.5	905	1599	2.2		83 WATTS 11	5 1	DIRECT	SWITCH/WITH DELAY	"GREENHECK" SP-A190	STAINLESS STEEL GRILLE, CEILING RADIATION DAMPER ISOLATION KIT AND NEMA 1 DISCONNET SWITCH

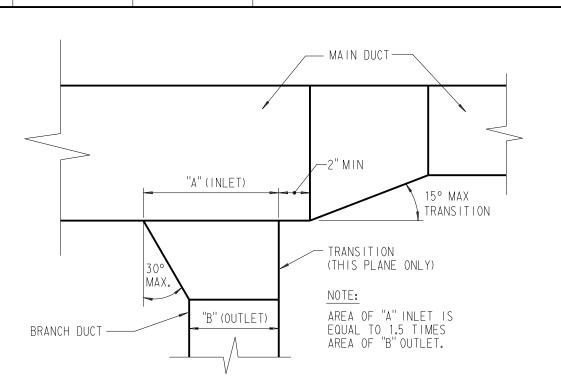
1. PROVIDE EF-2 WITH SOLID STATE SPEED CONTROL - 5WSSC.

	HOT WATER FINNED RADIATION SCHEDULE									
MARK	BTU PER ENCLOSURE DIM (IN		EINCLU		ENCLOSURE ELEMENT DIM (IN)		No. OF	"STERLING"	REMARKS	
MANN	LIN FT	HE I GHT	DEPTH	TYPE	TUBE	FIN W	FIN H	TIERS	MODEL No.	NEMARKS
FTR-A	815	8	3 ⁹ /16	JVK-S8	3/4	23/4	21/2	1	R02	PROVIDE WITH END CAPS

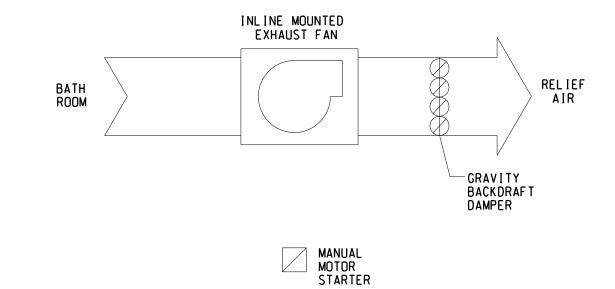
 FTR IS WALL TO WALL PROVIDE ALL ACCESSORIES NEEDED FOR A FINISHED LOOK. 1. 200°F AVERAGE WATER TEMPERATURE. 2. 65°F ENTERING AIR TEMPERATURE UNLESS NOTED.

SUPPLY DU	JFFUSER :	SCHEDULE
CFM RANGE FOR OMNI TYPE	NECK SIZE FOR	SD-A AND SD-B
DIFFUSERS	ROUND	SQUARE
0-200	6"	-
201-350	8″	-
351-500	10"	-
501-700	12"	-
701-900	14"	-

			GRILLE	• REG	ISTER A	AND DIFFU	JSER SCH	EDULE
MARK	CORE STYLE	BORDER FRAME TYPE	MODULE SIZE	FINISH	ACCESSORY	CONSTRUCTION	"PRICE" MODEL No.	REMARKS
SD-A	SQUARE PLAQUE	LAY-IN	24"x24"	WHITE	-	STEEL	SPD	SURFACE MOUNT SQUARE PLAQUE DIFFUSERS IN AREAS WITH HARD CEILING
SD-B	SOUARE PLAQUE	LAY-IN	24"x24"	WHITE	-	STEEL	VAR [THERM VPD-HC	PROVIDE DIFFUSER WITH PRESSURE REFIEF COLLAR
RG-A	EGGCRATE	LAY-IN	24"x24"/ 24"x12"	WHITE	-	ALUMINUM	80	-
RG-A	EGGCRATE	LAY-IN	12"x12"	WHITE		ALUMINUM	80	-

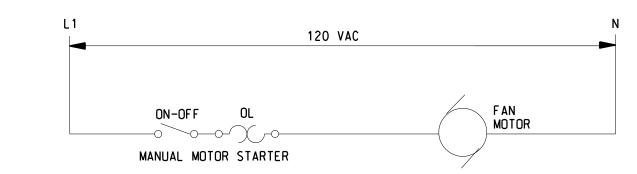


TYPICAL DUCT CONNECTION DETAIL (LOW PRESSURE DUCTWORK)

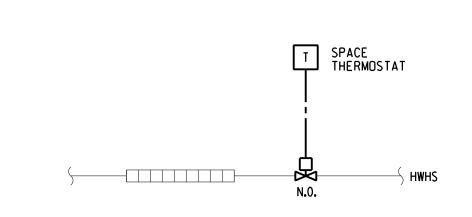


EXHAUST FAN EF-2 CONTROL DIAGRAM

SEQUENCE OF OPERATION: THE EXHAUST FAN IS MANUALLY STARTED AND STOPPED AT THE SPACE MOUNTED MOTOR STARTER.

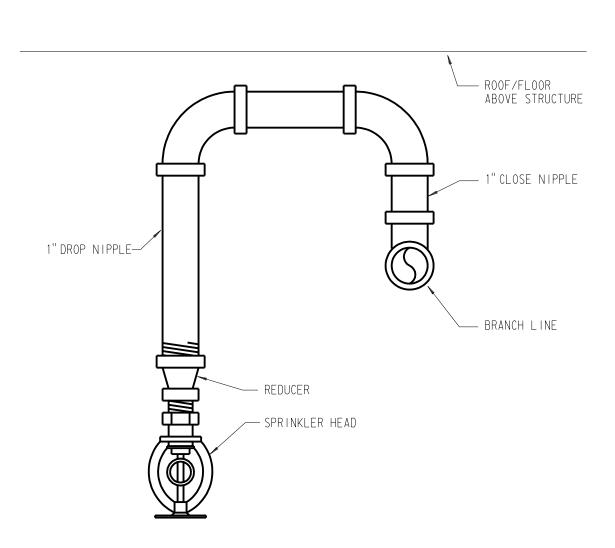


EXHAUST FAN EF-1 MOTOR STARTER WIRING DETAIL



TYPICAL FINNED TUBE RADIATION **CONTROL DIAGRAM**

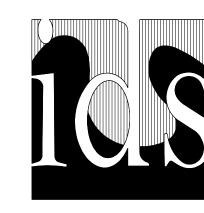
SEQUENCE OF OPERATION: ELECTRIC SPACE THERMOSTAT SHALL MODULATE HWHS CONTROL VALVE TO MAINTAIN SPACE TEMPERATURE SETTING.



TYPICAL SPRINKLER PIPING DETAIL

0.5 - 6.0 ½ " 6.1 - 11.0 ¾ " 11.1 - 17.0 1" 17.1 - 30.0 1¼ " 30.1 - 40.0 1½ " 40.1 - 75.0 2"	GPM	VALVE SIZE
11.1 - 17.0 1" 17.1 - 30.0 1½" 30.1 - 40.0 1½" 40.1 - 75.0 2"		3/, "
30.1 - 40.0 1½" 40.1 - 75.0 2"		1"
40.1 - 75.0 2"		1 1/4
75.1 - 110		21/2 "
110.1 - 150	110.1 - 150	3"
	-	
_		

WATER FLOW MEASURING DEVICE FOR VALVE SIZE UP TO 3 INCH



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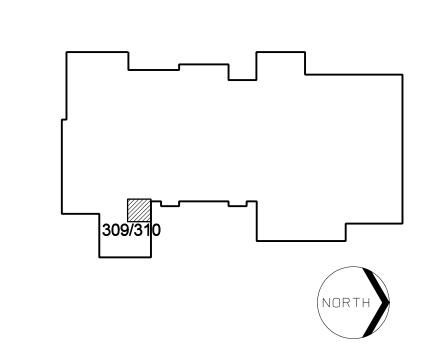


LINDEN COMMUNITY SCHOOLS

2013 Sinking Fund Projects

Linden, Michigan

Key Plan



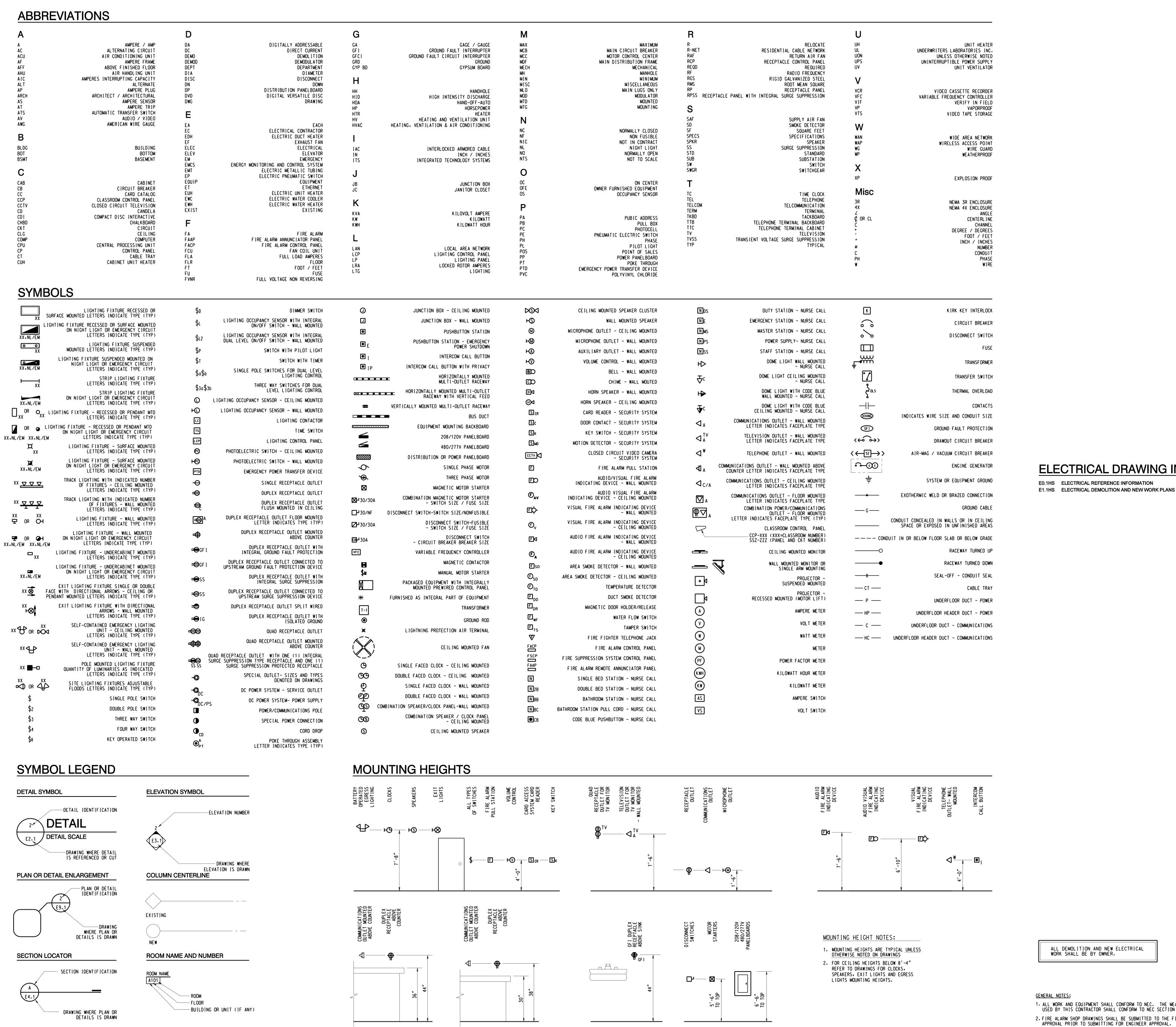
Project Administrator: K. Delzer Project Designer: C. Watts Project Architect / Engineer: C. Watts Drawn By: C. Watts Q.M. Review: D. DiCiuccio Approved:
D. DiCiuccio Drawing Scale: As Noted Issue Date: Issued for:

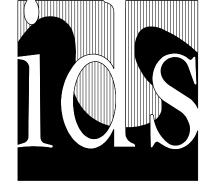
Quality Management Review Plan Review 03-14-13 03-15-13

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Schedules, Details and **Temperature Controls**

IDS Project Number





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Project Title

LINDEN COMMUNITY SCHOOLS

2013 Sinking Fund Projects

Linden, Michigan

Project Administrator:

Key Plan

THIS PROJECT MAY NOT UTILIZE ALL THE

SYMBOLS, MATERIALS, ABBREVIATIONS AND STANDARD INFORMATION SHOWN ON THIS SHEET.

K. Delzer		
Project Designer: M. Nowicki		•
Project Architect A	/ Engineer:	•
Drawn By: T. Manardo		
Q.M. Review: R. Bracci		
Approved: R. Bracci		Signature:
Drawing Scale: None		Date:
Issue Date:	Issued f	or:
03-11-13	Quality I	Management Review
03-14-13	Plan Re	view
03-15-13	Bids	

Seal:

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Electrical Reference

IDS Project Number

Information

Drawing Number

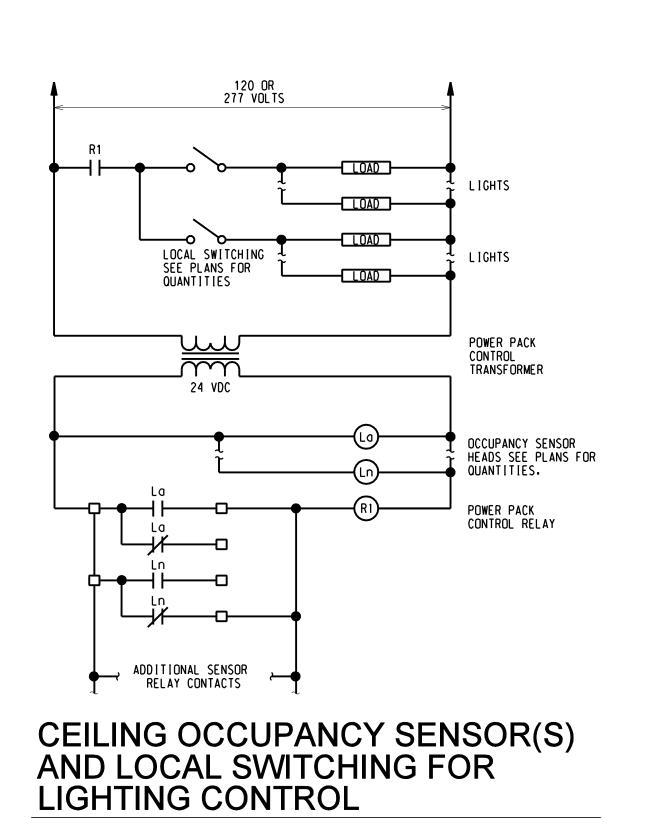
ALL DEMOLITION AND NEW ELECTRICAL WORK SHALL BE BY OWNER.

ELECTRICAL DRAWING INDEX

E0.1HS ELECTRICAL REFERENCE INFORMATION

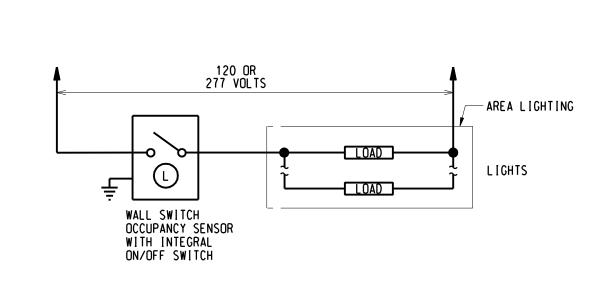
GENERAL NOTES:

1. ALL WORK AND EQUIPMENT SHALL CONFORM TO NEC. THE MEANS AND METHODS USED BY THIS CONTRACTOR SHALL CONFORM TO NEC SECTION 110-3 (a AND b). 2. FIRE ALARM SHOP DRAWINGS SHALL BE SUBMITTED TO THE FIRE MARSHALL FOR APPROVAL PRIOR TO SUBMITTING FOR ENGINEER APPROVAL.



1. ALL LOW VOLTAGE WIRING SHALL BE #18 AWG MINIMUM.

NO SCALE

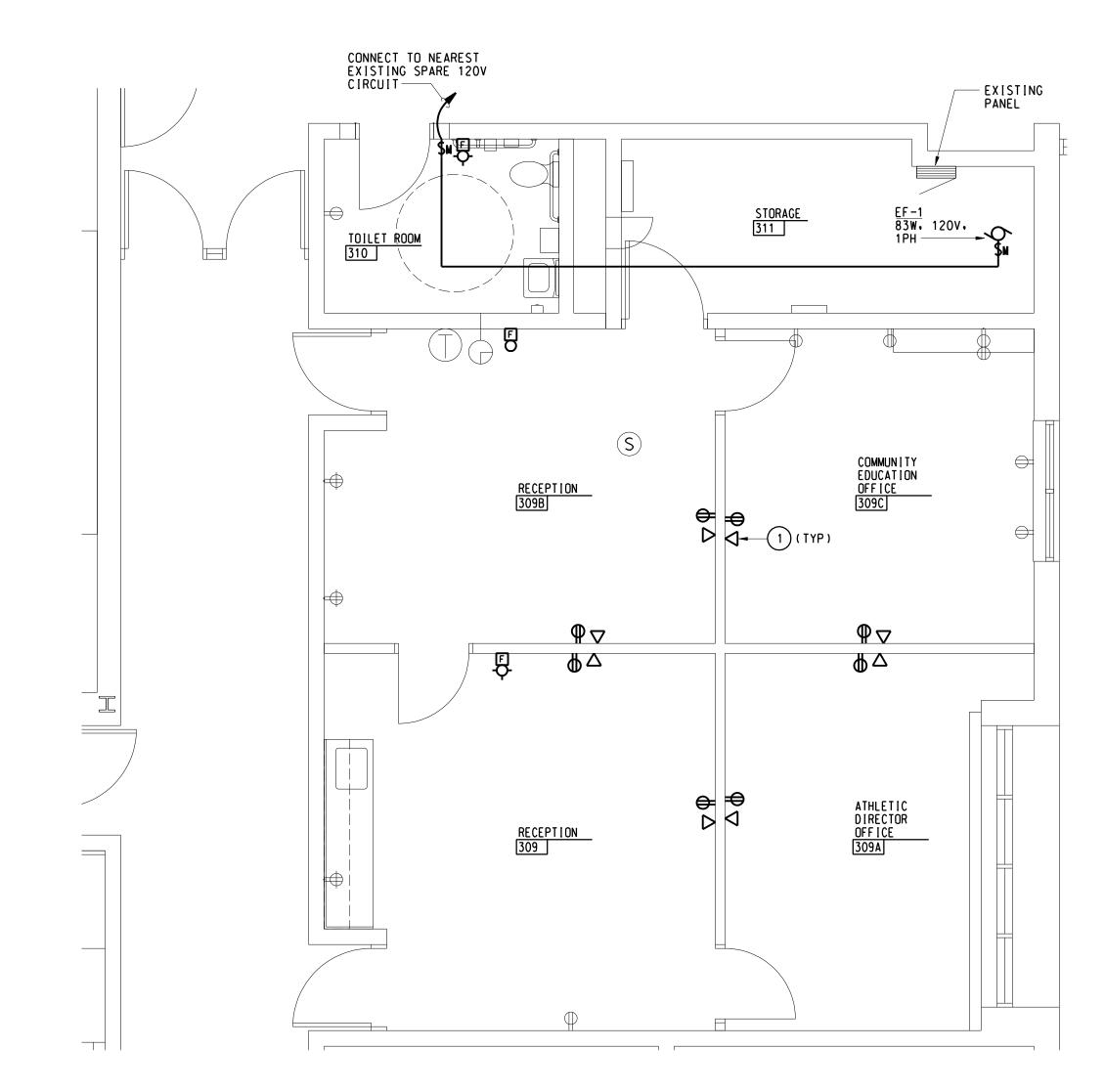


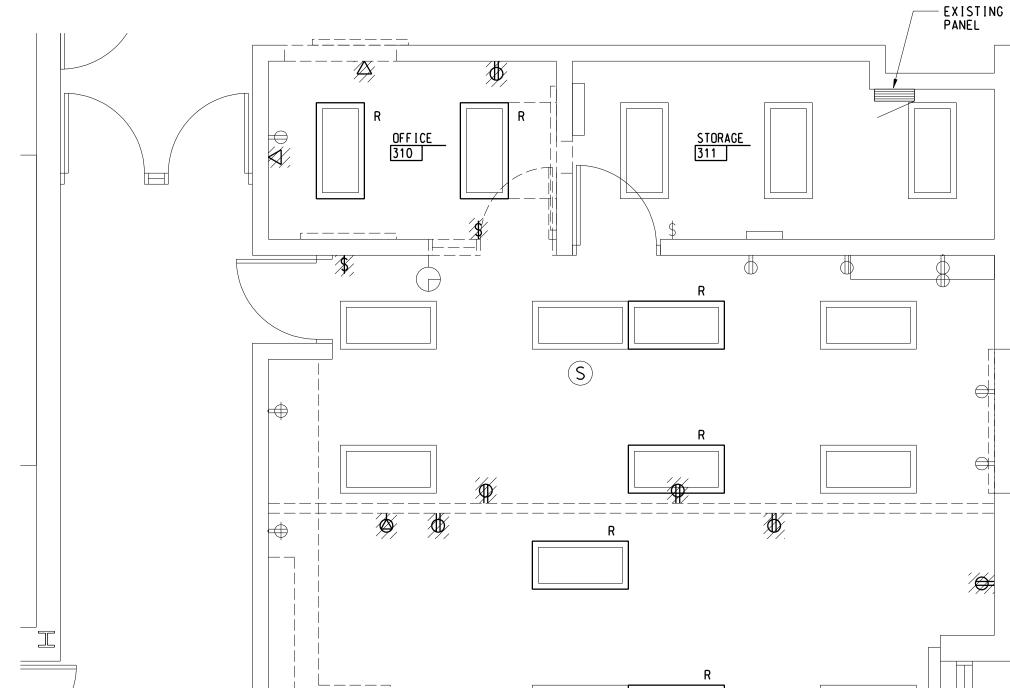
WALL OCCUPANCY SENSOR FOR SINGLE LEVEL LIGHTING CONTROL

KEYNOTES

1) FURNISH AND INSTALL 4¹¹/₁₆" SQUARE BY 2¹/₈" DEEP BOX WITH SINGLE GANG REDUCING RING AND EMPTY ³/₄" CONDUIT STUBBED INTO CEILING

SPACE AND TERMINATED WITH FIBER BUSHING, DATA CABLING AND TERMINATIONS PROVIDED BY





LIGHTING PLAN

DEMOLITION PLAN

1/4" = 1'-0"

1/4" = 1'-0"

GENERAL NOTES

LIGHTING FIXTURE SCHEDULE

SELF-CONTAINED, UNIT INVERTER (BATTERY PACK) CONCEALED INSIDE FIXTURE CHANNEL TO PROVIDE BATTERY BACK-UP TO (2) T-8 LAMP AT 1350 INITIAL LUMENS (MINIMUM) FOR 90

RECHARGEABLE, MAINTENANCE-FREE NICKEL CADMIUM BATTERIES; SOLID STATE CHARGER: LOW VOLTAGE DISCONNECT: INDICATING

EDUCATION

ATHLETIC

DIRECTOR OFFICE 309A

NORTH

— EXISTING PANEL

MINUTE BATTERY LIFE (MINIMUM) PROVIDE WITH SEALED.

LAMP; TEST SWITCH; FULL SELF DIAGNOSTICS; 277 VOLT

MANUFACTURER: BODINE B50ST

LIGHTING AND POWER PLANS 1. LIGHT LINE WEIGHT INDICATES EXISTING EQUIPMENT TO REMAIN. HEAVY LINE WEIGHT INDICATES NEW ELECTRICAL EQUIPMENT.

- THE LETTER (R) INDICATES NEW LOCATION OF EQUIPMENT RELOCATED. 2. ALL BRANCH CIRCUITS SHALL CONSIST OF A MINIMUM OF 2#12AWG AND 1#12AWG GRD IN 34" CONDUIT TO A 20A-1P CIRCUIT BREAKER UNLESS NOTED OTHERWISE.
- 3. ALL NEW ELECTRICAL DEVICES SHALL BE FLUSH MOUNTED. ALL CONDUIT AND WIRING SHALL BE CONCEALED IN WALLS.
- 4. ELECTRICAL CONTRACTOR SHALL RING OUT ALL CIRCUITS IN ALL EXISTING PANELBOARDS AFFECTED BY THE SCOPE OF THIS PROJECT AND PROVIDE UPDATED TYPED PANELBOARD DIRECTORIES. REPLACE ALL INOPERATIVE OR DEFECTIVE CIRCUIT BREAKERS AND PROVIDE BLANK COVERS WHERE BREAKERS HAVE BEEN
- 5. CONNECT LIGHTING FIXTURES TO EXISTING LIGHTING BRANCH CIRCUITS. PROVIDE SWITCHING AS INDICATED. 277 VOLT. 20A-1P BRANCH CIRCUITS SHALL NOT BE LOADED IN EXCESS OF 4400VA. CLEAN AND RELAMP ALL EXISTING FIXTURES.
- 6. CIRCUIT NEW RECEPTACLES TO EXISTING BRANCH CIRCUIT PANELS. VERIFY EXACT CIRCUIT NUMBERS IN THE FIELD AND CONNECT TO EXISTING SPARE CIRCUIT BREAKERS. 120 VOLT. 20A-1P BRANCH CIRCUITS SHALL NOT BE LOADED IN EXCESS OF 1500VA. 7. PROVIDE AN EQUIPMENT GROUNDING CONDUCTOR WITHIN THE RACEWAY. ALONG WITH THE PHASE CONDUCTORS, FOR ALL BRANCH CIRCUITS. PROVIDE A SEPARATE DEDICATED NEUTRAL

CONDUCTOR FOR EACH BRANCH CIRCUIT PHASE

- 8. PROVIDE CONDUIT BUSHINGS AND PULL STRINGS IN ALL EMPTY TELECOMMUNICATIONS CONDUITS.
- 9. WHERE CONDUITS PENETRATE FIRE WALLS. THE WALL SHALL BE SEALED TO BE EQUAL OR GREATER THAN THE ORIGINAL FIRE RATING OF
- 10. REMOVE AND REPLACE ALL EXISTING CEILING TILES AS REQUIRED FOR THE INSTALLATION OF ELECTRICAL EQUIPMENT. 11. OBTAIN APPROVAL FROM THE OWNER PRIOR TO INTERRUPTING EXISTING ELECTRICAL SERVICES. ALL ELECTRICAL SERVICE INTERRUPTIONS AND CONNECTIONS TO EXISTING SYSTEMS SHALL BE PERFORMED DURING AT A TIME SUITABLE
- 12. PROVIDE BOX EXTENSIONS ON ALL EXISTING OUTLETS AS REQUIRED TO ACCOMODATE FURRED OUT WALLS.
- 13. PROVIDE NEW FIRE ALARM DEVICES COMPATIBLE IN MAKE, MODEL AND MANUFACTURER. WITH THE EXISTING FIRE ALARM SYSTEM.

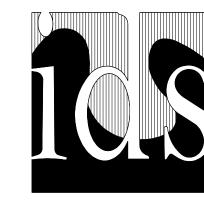
KEYNOTES

LIGHTING PLAN 1) FURNISH AND INSTALL NEW EMERGENCY LIGHTING BATTERY PACK TYPE "EM" IN EXISTING LIGHTING FIXTURE.

GENERAL NOTES

- DEMOLITION 1. LIGHT LINE WEIGHT INDICATES EXISTING EQUIPMENT TO REMAIN. PLAN SLASH MARKS INDICATE EQUIPMENT TO BE DISCONNECTED AND REMOVED. THE LETTER (R) INDICATES EXISTING EQUIPMENT TO BE RELOCATED.
- 2. UNLESS OTHERWISE NOTED DISCONNECT AND REMOVE ALL ELECTRICAL DEVICES AS INDICATED OR REQUIRED TO FACILITATE NEW CONSTRUCTION INCLUDING HANGERS,
 MOUNTING HARDWARE, PULL BOXES,
 JUNCTION BOXES, CONDUIT, WIRING, ETC,
 FROM THE POWER SOURCE TO THE UTILIZATION
 EQUIPMENT.
- 3. WHERE REMOVAL OF CONDUIT AND WIRING AFFECTS THE OPERATION OF "UPSTREAM" AND/OR "DOWNSTREAM" UTILIZATION EQUIPMENT WHICH WAS NOT INDICATED TO BE REMOVED. PROVIDE ADDITIONAL CONDUIT AND WIRING TO RESTORE THE "UPSTREAM" AND "DOWNSTREAM" UTILIZATION EQUIPMENT TO ITS NORMAL OPERATION.
- 4. FOR LIGHTING REMOVE SWITCH, COVERPLATE, AND WIRING TO NEAREST JUNCTION BOX IN THE CEILING SPACE. DEVICE BOX AND CONDUIT TO CEILING SPACE SHALL REMAIN, LIGHTING BRANCH CIRCUITS SERVING THE AREA SHALL REMAIN FOR REUSE.
- 5. CEILING GRIDS AND PADS ARE EXISTING TO REMAIN UNLESS OTHERWISE NOTED ON ARCH. DRAWINGS. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL AND REINSTALLATION OF EXISTING ACOUSTICAL CEILING PANELS AND GRIDS REQUIRED FOR THE INSTALLATION OF ALL ELECTRICAL WORK IN AREAS NOT SHOWN AS REPLACED BY ARCH TRADES. ANY BROKEN/SCRATCHED/OR DAMAGED PANELS SHALL BE REPLACED WITH NEW MATCHING EXISTING. EXISTING ACOUSTICAL CEILING PANELS ALREADY SCRATCHED/DAMAGED OR BROKEN SHALL
 BE DOCUMENTED WITH OWNER/OWNER'S
 REPRESENTATIVE PRIOR TO BEGINNING ANY
- 6. AFTER REMOVAL OF SURFACE MOUNTED ELECTRICAL EQUIPMENT PATCH HOLE IN MASONRY OR GYP. BOARD WALLS AND PAINT TO MATCH EXISTING WALL FROM NEAREST VERTICAL AND HORIZONTAL MORTAR JOINT OR CORNER.

ALL DEMOLITION AND NEW ELECTRICAL WORK SHALL BE BY OWNER.



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Project Title

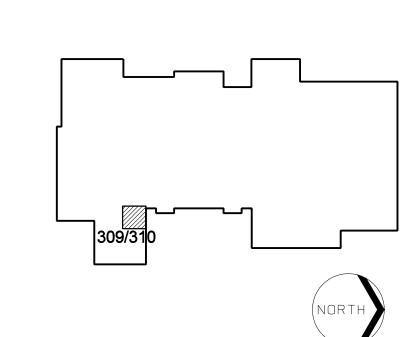


2013 Sinking Fund Projects

Linden, Michigan

SCHOOLS

Key Plan



Project Administrator: K. Delzer **Project Designer:** M. Nowicki Project Architect / Engineer: M. Nowicki Drawn By: T. Manardo Q.M. Review: R. Bracci Signature: R. Bracci Drawing Scale: 1/4"=1'-0"

Issue Date: Issued for: Quality Management Review 03-14-13 Plan Review

03-15-13

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Electrical Demolition and New Work Plans

POWER AND AUXILIARY SYSTEM PLAN
1/4" = 1'-0"