

2015-121 LCS
7300 E. 56th Street
Indianapolis, IN 46226

04.18.2016

2015-12-18 15:08



2- CIVIL	
CD101	SITE DEMOLITION PLAN
4 Architectural	
AD101	DEMOLITION FLOOR PLANS
AD104	DEMOLITION ELEVATIONS & SECTIONS

[illegible][illegible][illegible]

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LC EXTERIOR FACILITY UPGRADES - BOD Package 2

G-000

LIFE SAFETY PLAN LEGEND

Room name	
101	
AREA: 150 S	
Egress	Occupancy
	Load: ##
	# of Exits: #

EGRESS INFORMATION TAG

©

ANNUNCIATOR PANEL

HC FIRE HOSE CABINET

FIRE EXTINGUISHER (NOT REQUIRED)

NON-RATED INCIDENTAL-USE
WALL [508.2.2.1]

— · — · — · — 1-HOUR FB RATED WALL

— . . — . . — 2-HOUR FB RATED WALL

— . . . — 4-HOUR FB RATED WALL

----- 1-HOUR FIRE PARTITION [419, 1017.1]

CODE SUMMARY

End Zone Building	
Applicable Code	2014 Indiana Building Code (IBC)
Occupancy Classifications:	Educational use areas for high school students E Occupancy [308.1]
Construction Type:	Type VB (noncombustible, unprotected) Construction permitted based upon allowable area for Group E Occupancy [503.1]
Allowable Area:	Tabular Area: 9,500 sf [Table 503.1] Sprinkler Increase: 28,500 sf [696.31] Frontage Increase: + 7,125 sf [505.2] Allowable Area: 45,125 sf Actual Area: 16,800 sf
Occupancy Separations:	Occupancy separations not required, based upon classification of the entire structure as Group E Occupancy [305.1]
Building Elements - Fire Resistive Requirements:	Building elements, including structural frame, bearing walls, and roof are permitted to be of combustible, unprotected construction. [Table 601.1] Exterior walls are noncombustible, unless having in excess 10 feet of fire separation distance [Table 602]
Incidental Use Separation:	Laundry [Table 508]
Means of Egress:	2 means of egress are required from rooms with a calculated occupant load of 50 or more, or where exceeding 75 feet common path of travel to E Occupancy spaces and 100 feet in E Occupancy spaces [1015.1]
Exit Travel Distance:	The maximum travel distance to an exterior exit is permitted to be a maximum of 250 feet. [Table 1016.1]
Public Hardware:	Public hardware is required on all new means of egress doors serving an occupant load of 50 or more [1008.1.10]
Egress Corridors:	Egress corridors are not required to be alarmed based upon automatic sprinkler protection [1018.1]
Automatic Sprinklers:	Automatic sprinklers are required based upon an E Occupancy fire area more than 12,000 square feet [903.2.3]
Fire Alarm System:	Fire alarm systems required based upon an occupant load of 40 or more - manual pull stations are not required based upon initiation by sprinkler water flow [907.2.3]
Smoke Detectors:	Smoke detectors are required for HVAC shutdown for systems delivering in excess of 2,000 cfm [606.1, IMC]

Concession Buildings (2)

Occupancy Classification:	Concession and rest rooms - B Occupancy [304.1]
Construction Type and Allowable Area:	Type VB Construction permitted based upon an allowable area of 9,000 sq ft [Table 503] Actual area is approximately 2,000 sq ft
Building Elements:	Building elements are permitted to be of non-rated combustible construction [Table 601]
Incidental Use Separations:	None applicable [Table 509]
Automatic Sprinklers:	Not required [603.2.3]
Fire Alarm System:	Not required [607.2.2]

Press Box (delegated design - to be submitted separately)

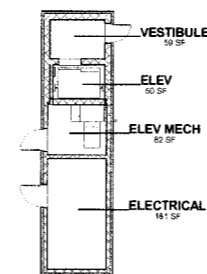
Occupancy Classification:	Press box - B Occupancy	[304.1]
Construction Type and Allowable Area:	Type VB Construction permitted based upon an allowable area of 9,000 sq ft Actual area is approximately 660 sq ft	[Table 503]
Building Elements:	Building elements are permitted to be of non-rated combustible construction	[Table 501]
Incidental Use Separations:	None applicable	[Table 506]
Automatic Sprinklers:	Not required	[603.2.5]
Fire Alarm System:	Not required	[607.2.2]

Ticket Booth (2 structures)	
Ticket booth	

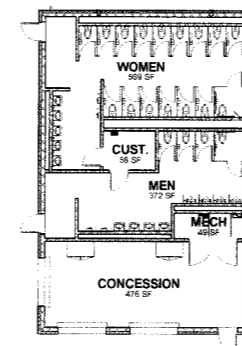
Classification:	B - Occupancy	[304.1]
Construction Type and Allowable Area:	Type VB Construction permitted based upon an allowable area of 9,000 square feet Actual area is 80 square feet	[Table 502]
Building Elements:	Building elements are permitted to be of nonrated combustible construction	[Table 601]
Incidental Use Separators:	None applicable	[Table 509]
Automatic Smoke/Heat Detectors:	Not required	[903.2.3]
Fire Alarm System:	Not required	[903.2.2]

Elevator-Electrical Building

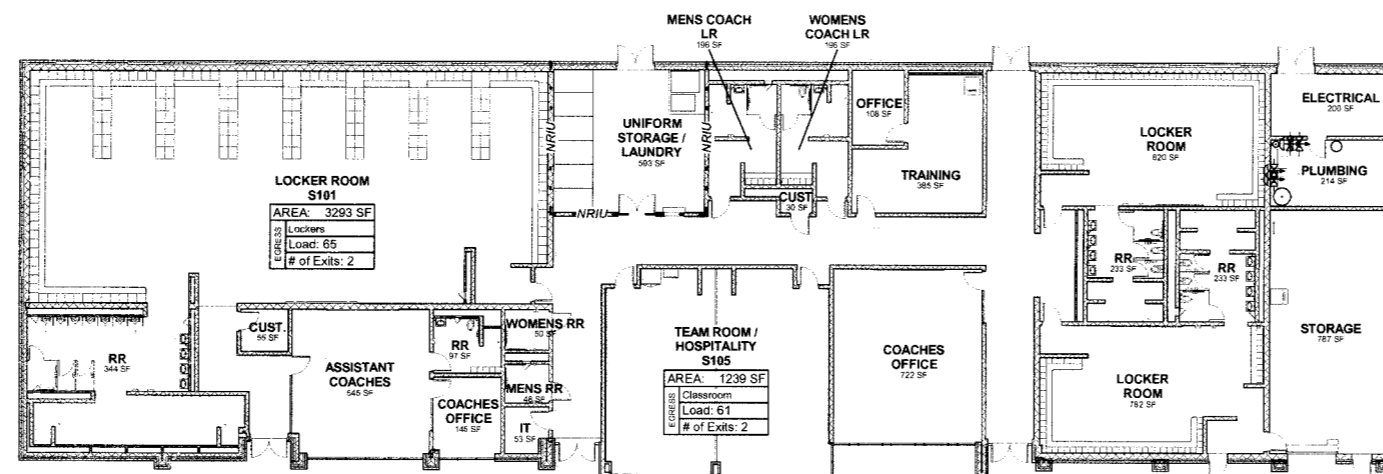
Classification:	Type VB Construction permitted based upon an alternate area of 9,000 square feet [Table 503] Actual area is 483 square feet
Building Elements:	Building elements are permitted to be of nonrated combustible construction [Table 501]
Incidental Use Separations:	None applicable [Table 503]
Elevator/Helipad Railing:	Not required - elevator has 2 stops and provides access from grade up to the exterior platform level of the bleachers [712.1.8]
Automatic Sprinklers:	Not required [903.2]
Fire Alarm System:	Not required [907.2.5]
Fire Hydrant:	Fire hydrant required within 400 feet of each building [508.2.1, FC - Sec. 591-406, MCFPC]
Fire Extinguishers:	Fire extinguishers required [Sec. 591-406, MCFPC]



3C ELEVATOR FIRST FLOOR FIRE & LIFE SAFETY PLAN - UNIT D
1/16" = 1'-0"



3B CONCESSION BUILDING FIRST FLOOR FIRE & LIFE SAFETY PLAN - UNIT B&C
1/16" = 1'-0"



3A END ZONE BUILDING FIRST FLOOR FIRE & LIFE SAFETY PLAN - UNIT A
1/16" = 1'-0"



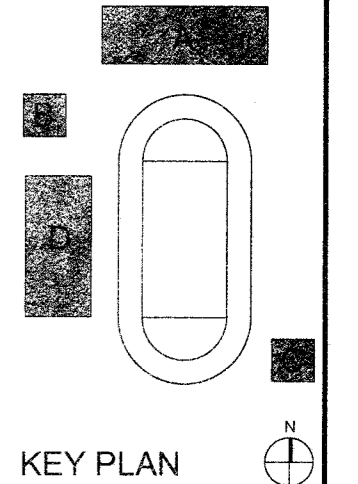
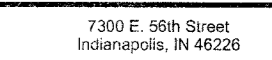
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#	Revision	Date
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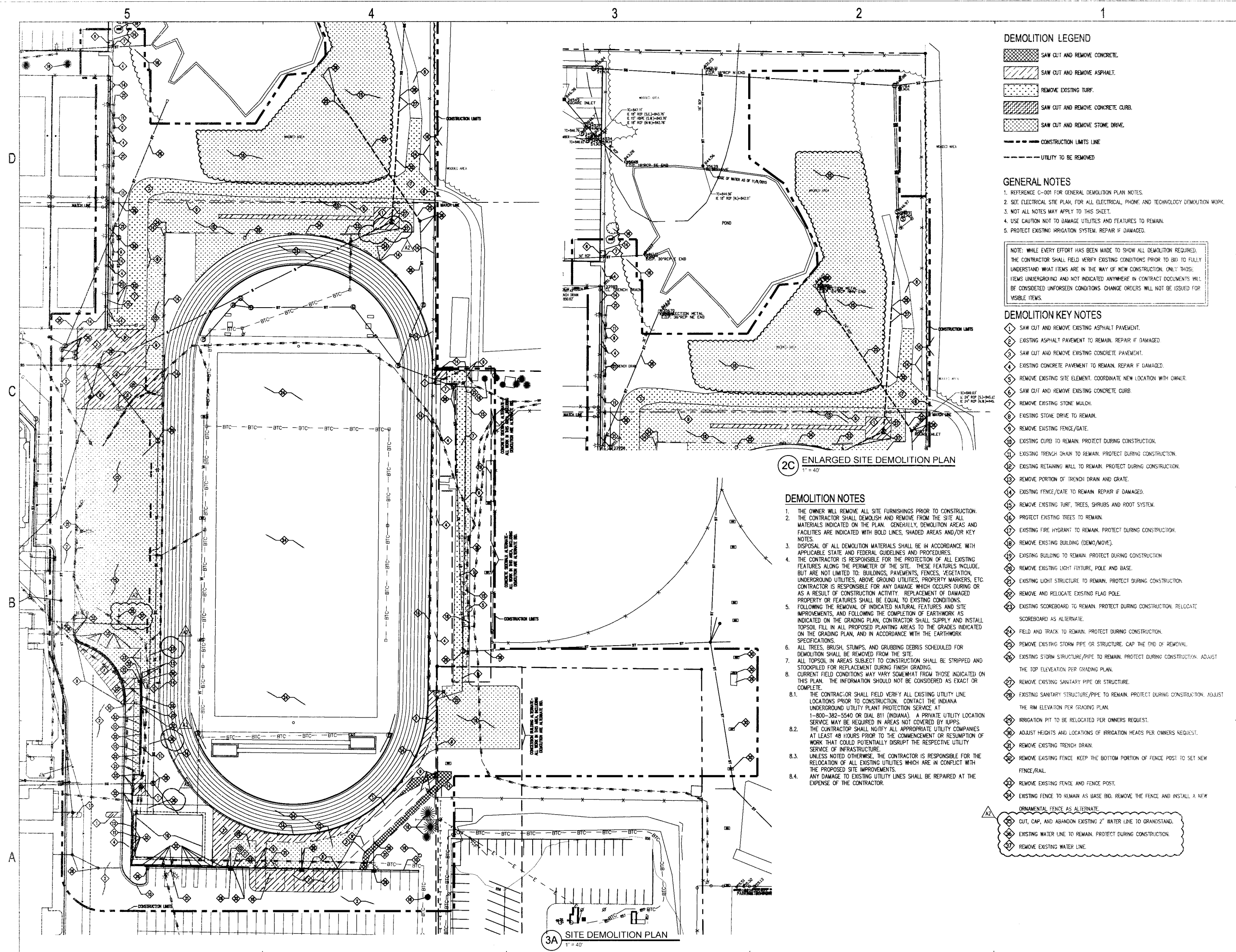


MSD OF
LAWRENCE
TOWNSHIP



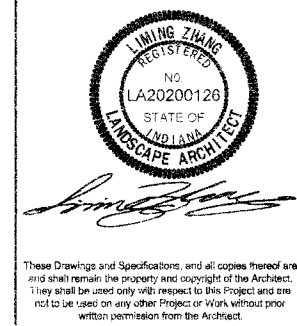
FIRST FLOOR FIRE & LIFE SAFETY PLAN

G-001

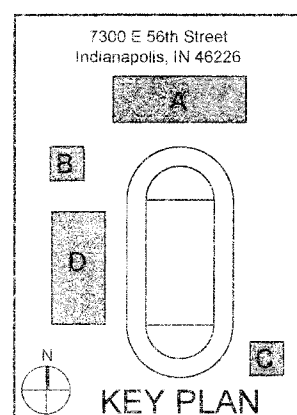


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Revision Date
A2 ADDENDUM 2 5.6.2016



MSD OF
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LC EXTERIOR
FACILITY
UPGRADES - BP2

SITE DEMOLITION PLAN

CD101

6

5

4

3

2

1

E

D

C

B

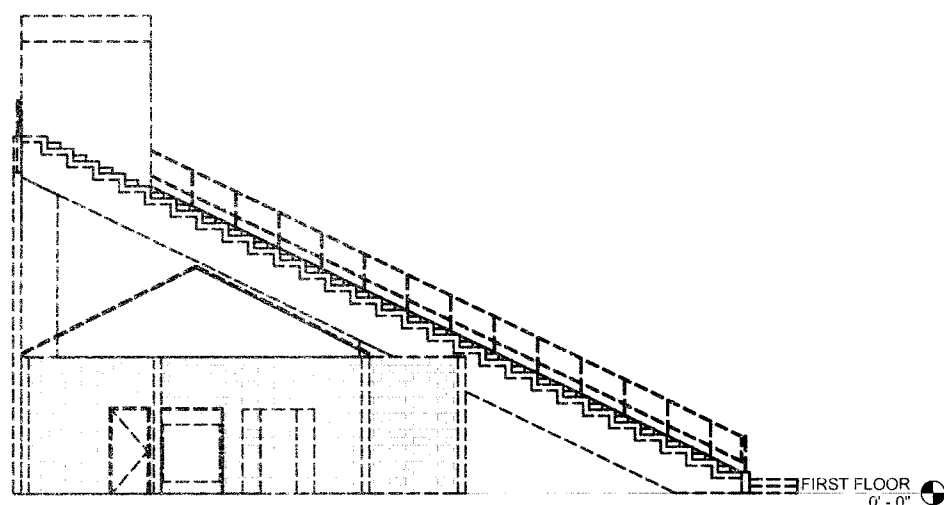
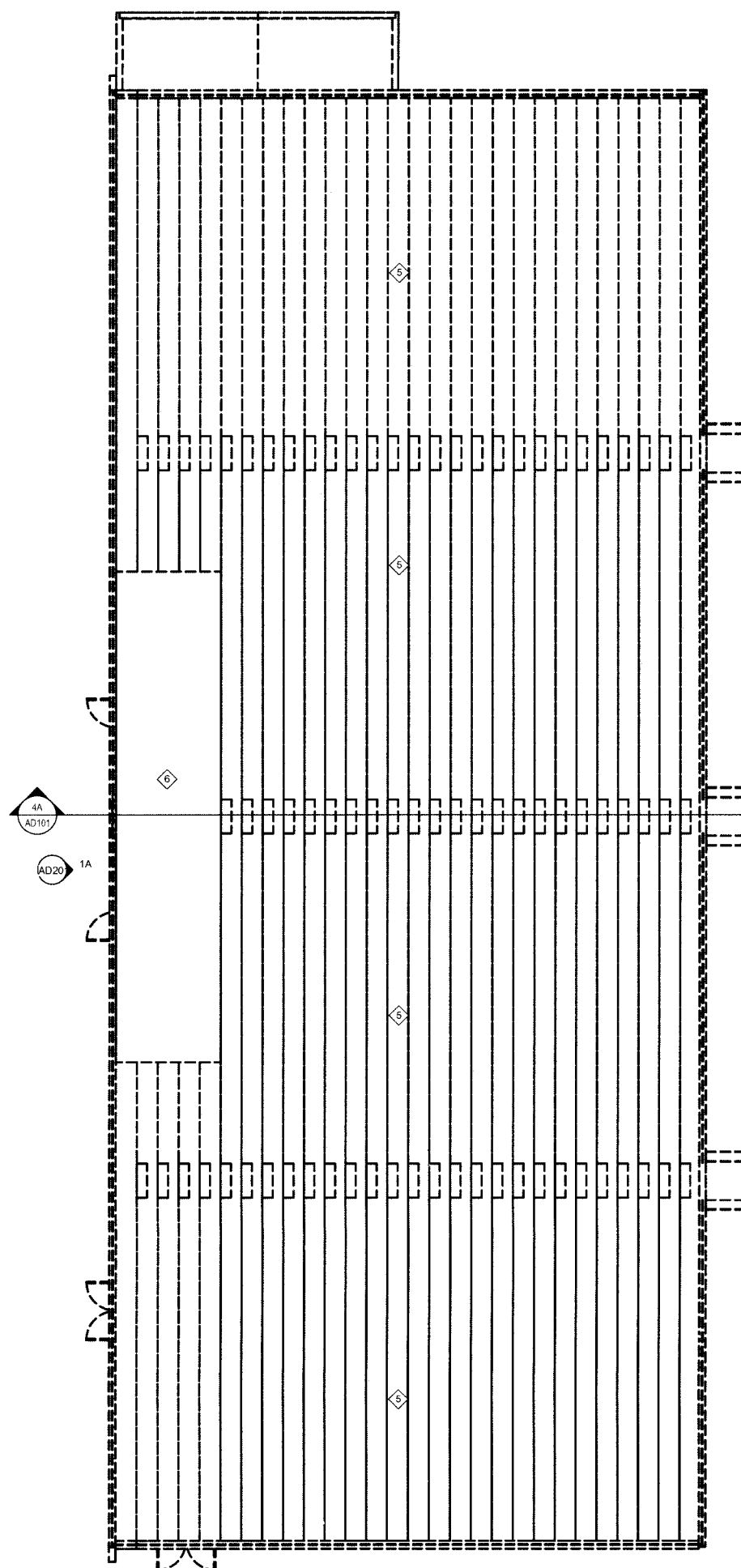
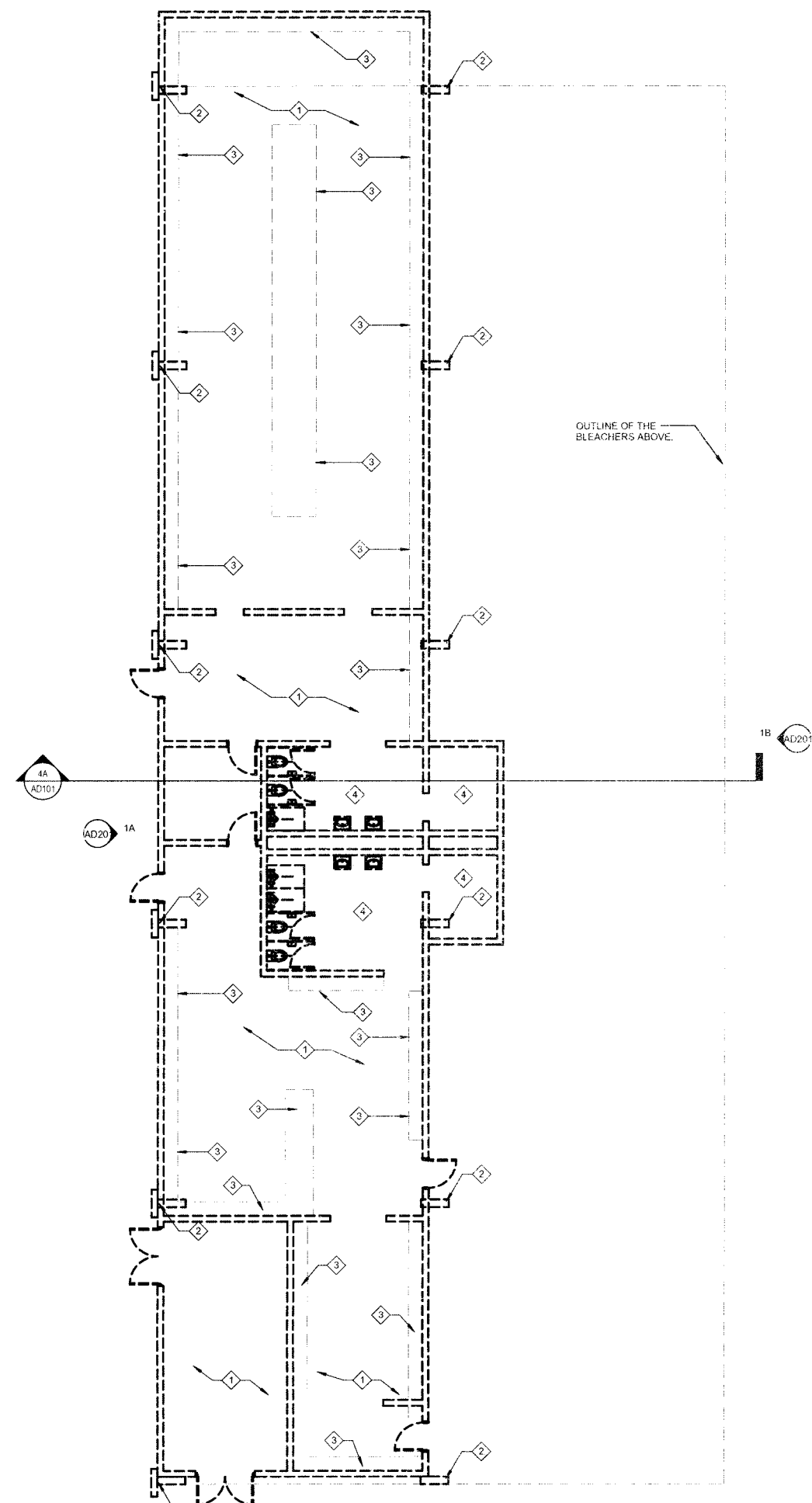
A

General Demolition Notes

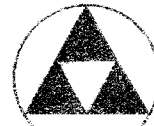
- Demolition Scope:** Contractor is responsible for the complete demolition of the grandstand, pressbox, locker rooms/support spaces, restrooms, and work required or noted for installation of new work. Drawings are intended to be conceptual representation of the existing conditions.
- VIF Conditions:** Contractor shall field-verify all existing conditions, dimensions, and arrangements.
- Protection:** Contractor is responsible for protection of all existing surfaces, materials, and components to remain or be relocated. Damage to these resulting from performance of Work shall be repaired by Contractor to satisfaction of Owner and Architect at no additional expense to Owner.
- Dust Control:** Contractor shall provide temporary dust protection as required to prevent construction debris and dust from migrating out of Project Area. Owner/Architect shall confirm all dust prevention measures/locations and shall determine changes to these measures.
- Owner's First Right of Refusal:** All existing equipment and fixtures shall remain property of Owner. All reusable items salvaged during demolition operations shall be retained for Owner's inspection. Only items so inspected and rejected by Owner shall be disposed. All other such items shall be turned over to Owner for disposition.
- Owner Responsibility:** Owner will be responsible for removal/rearrangement of all existing loose furnishings during construction, unless noted otherwise.
- Flag Capping:** Cap all piling to remain or abandoned in accordance with requirements of authority having jurisdiction and in accordance with all local and state plumbing and health codes. Utilize only pre-manufactured and approved fittings to cap existing piling.
- Demolition Coordination:** Coordinate all demolition with project sequencing as directed by the Bid Package 2 contractor.

5.4.095 - DEMOLITION PLAN NOTES

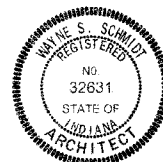
KEY	NOTE
1	REMOVE EXISTING INTERIOR/EXTERIOR WALLS, DOORS, & FRAMES, WINDOWS, FIXTURES, EQUIPMENT, SPECIALTIES, MECHANICAL, PLUMBING, ELECTRICAL, & TELECOMM WORK, AND FINISHES.
2	REMOVE EXISTING STRUCTURE, INCLUDING COLUMNS, BEAMS, FOOTINGS, AND BELOW GRADE DRAINAGE.
3	REMOVE EXISTING LOCKERS, CURBS, AND BENCHES.
4	REMOVE EXISTING PLUMBING FIXTURES, PIPING, AND ACCESSORIES.
5	REMOVE EXISTING PRECAST CONCRETE BLEACHERS, STAIRS, AND RAILINGS. REMOVE METAL SEATS AND ASSOCIATED HARDWARE.
6	REMOVE EXISTING PRESSEBOX IN ITS ENTIRETY.

**4A** Section 1
1/8" = 1'-0"**3A** DEMOLITION SEATING PLAN
1/8" = 1'-0"**1A** DEMOLITION FIRST FLOOR PLAN
1/8" = 1'-0"

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415 Massachusetts Avenue
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www.schmidt-arch.comProject No. 2015-121 LCS
Project Date 03.28.2016
Produced BGB

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Revision Date

7300 E. 56th Street
Indianapolis, IN 46226

A

B

D

C

KEY PLAN

MSD OF
LAWRENCE
TOWNSHIPLC EXTERIOR
FACILITY
UPGRADES - BP1DEMOLITION FLOOR
PLANS

AD101

6 5 4 3 2 1

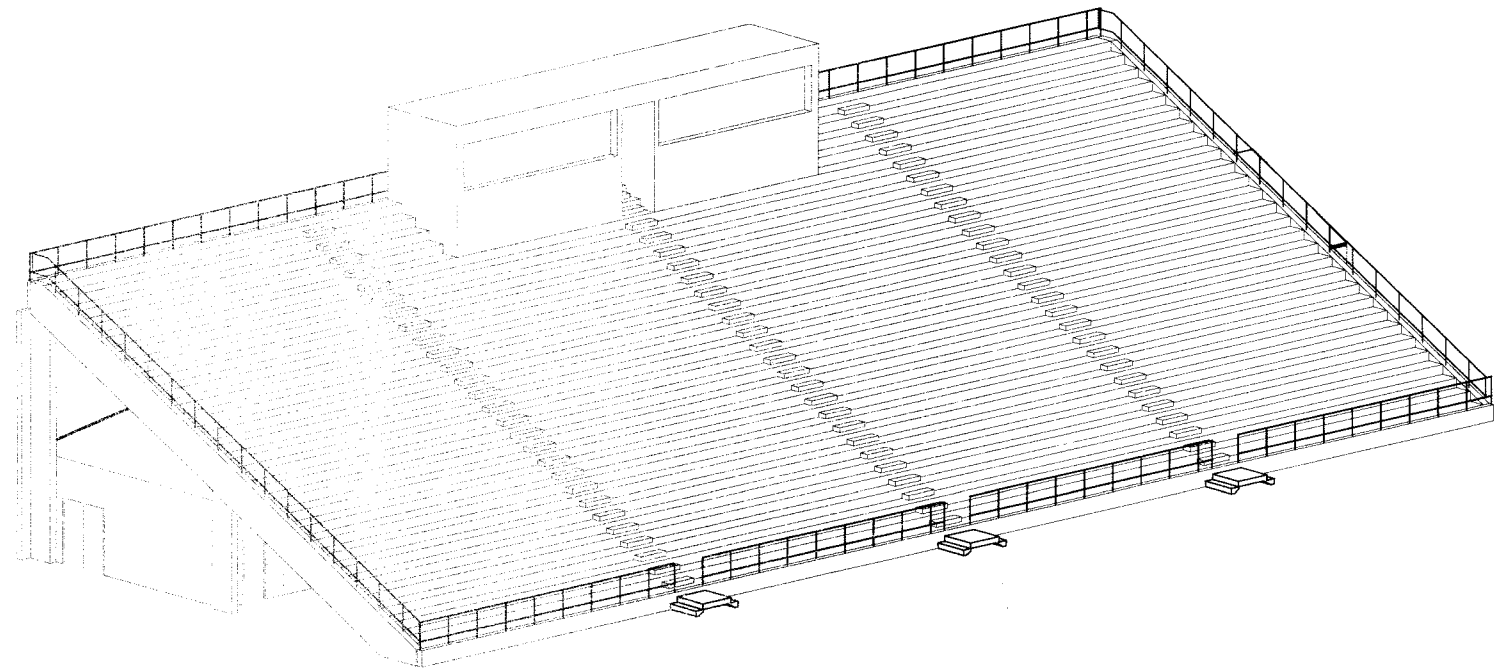
E

D

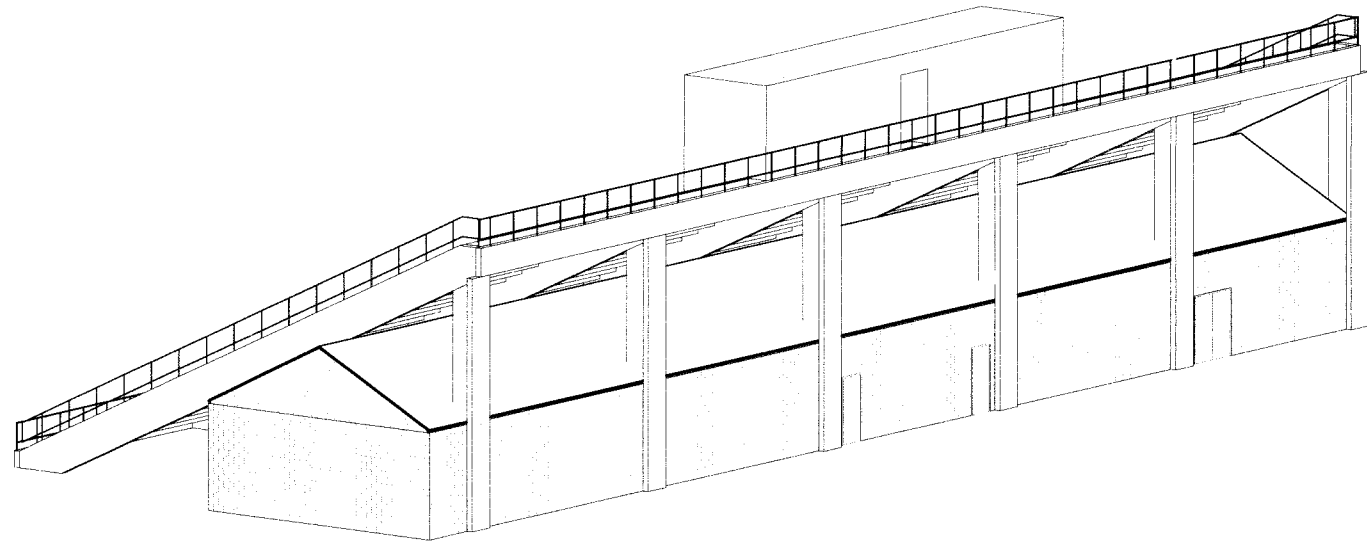
C

B

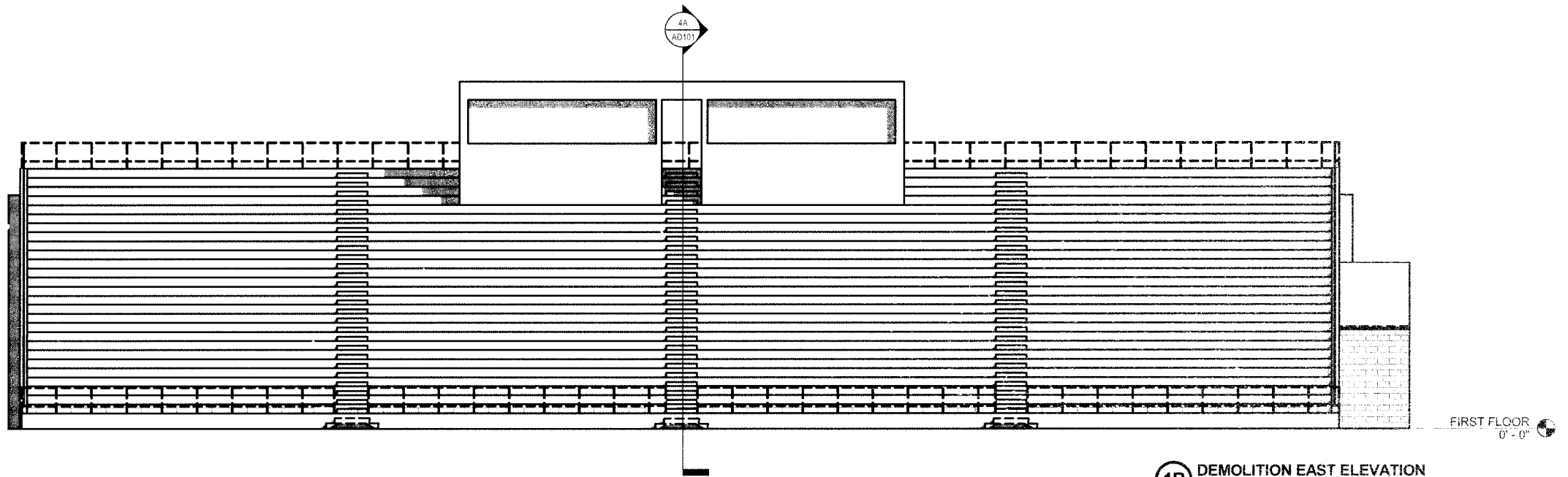
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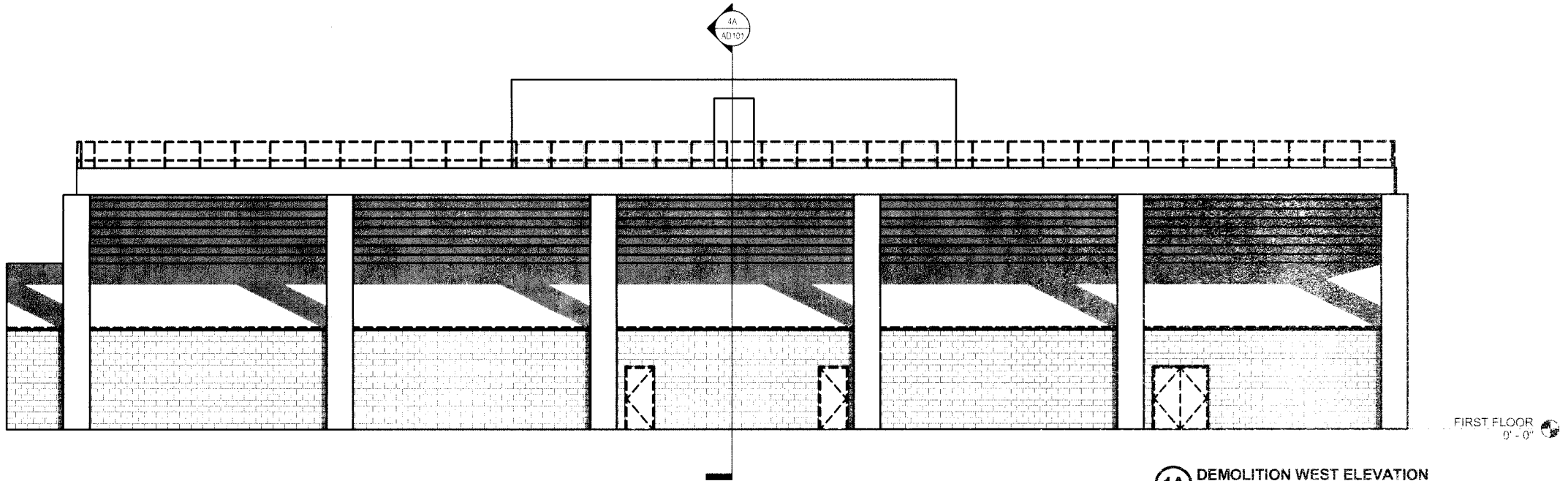
6E OVERALL PERSPECTIVE



4D OVERALL PERSPECTIVE STREET SIDE



1B DEMOLITION EAST ELEVATION
1/8" = 1'-0"



1A DEMOLITION WEST ELEVATION
1/8" = 1'-0"

General Demolition Notes

- Demolition Scope:** Contractor is responsible for the complete demolition of the structure, including but not limited to: walls, floors, roof, and foundation. Drawings are intended to be conceptual representations of the existing conditions.
- Site Conditions:** Contractor shall field verify all existing conditions, dimensions, and arrangements.
- Protection:** Contractor is responsible for protection of all existing surfaces, materials, and components to remain or be relocated. Damage to these resulting from performance of Work shall be repaired by Contractor to satisfaction of Owner and Architect at no additional expense to Owner.
- Dust Control:** Contractor shall provide temporary dust protection as required to prevent construction debris and dust from migrating out of Project Area. Owner/Architect shall confirm all dust prevention measures/locations and shall determine changes to these measures.
- Owner's First Right of Refusal:** All existing equipment and fixtures shall remain property of Owner. All reusable items salvaged during demolition operations shall be retained for Owner's inspection. Only items as inspected and rejected by Owner shall be disposed. All other such items shall be turned over to Owner for disposition.
- Owner Responsibility:** Owner will be responsible for removal/rearrangement of all existing loose furnishings during construction, unless noted otherwise.
- Sign Labeling:** Call all piping to remain or abandoned in accordance with requirements of authority having jurisdiction and in accordance with all local and state plumbing and health codes. Utilize only pre-manufactured and approved fittings for cap labeling piping.
- Demolition Coordination:** Coordinate all demolition with project sequencing as directed by the Bid Package 2 contractor.

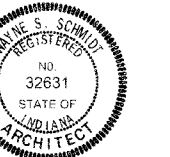
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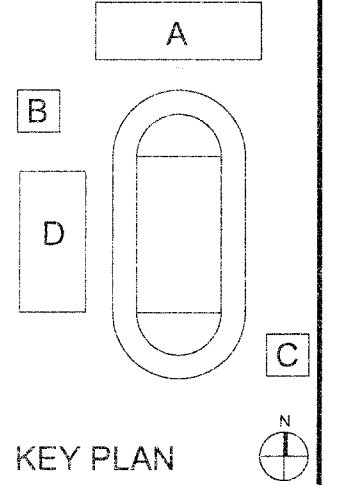
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LC EXTERIOR
FACILITY
UPGRADES - BP1


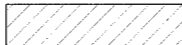










DEMOLITION ELEVATIONS
& SECTIONS

AD201

Abbreviations

[illegible]

Material Symbols

CONCRETE MASONRY UNIT	
FACE BRICK	
EARTH	
CONCRETE	
PLYWOOD	
METAL/STEEL	
FINISHED WOOD TRIM	
WOOD BLOCKING	
WOOD SHIM	
INSULATION (LOOSE OR BATT)	
INSULATION (RIGID)	
GYPSUM BOARD / PLASTER	

Reference Symbols

TITLE MARK

View Name

1/8" = 1'-0"

SECTION MARK

ELEVATION MARK

CUT LINE

DETAIL MARK

PLAN NOTE DESIGNATION

WHEELCHAIR CLEARANCE RADIUS

WALL DESIGNATION

DOOR NUMBER

WINDOW NUMBER

FURNITURE

COLUMN DESIGNATION

NORTH ARROW

ROOM TAG

UNIT MATCHLINE

DEMOLITION NOTE

REVISION TAG

DATUM POINT

#

11

11

FM

FB

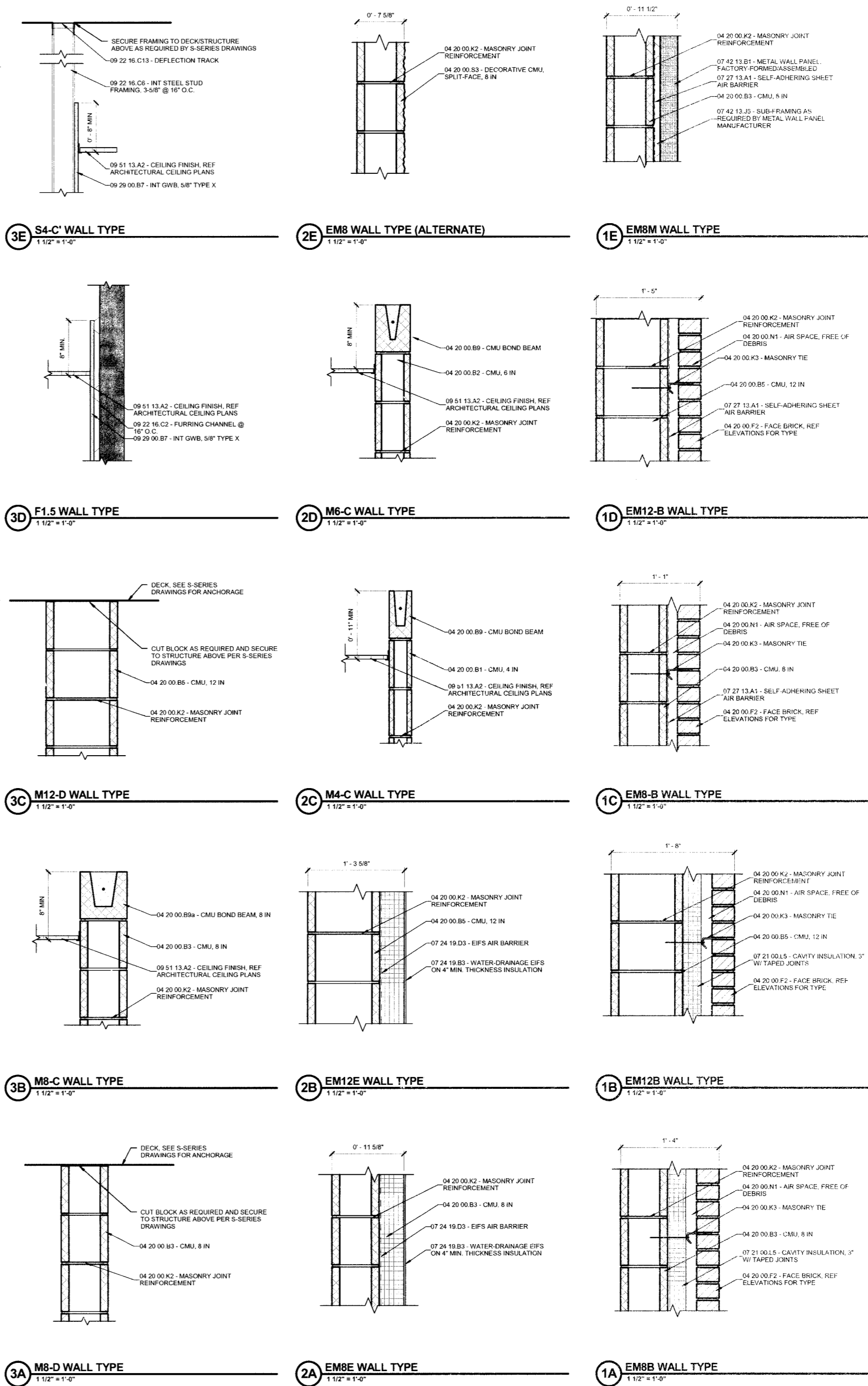
FB

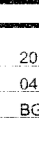


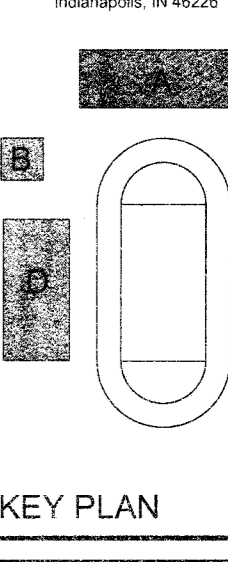

Room name

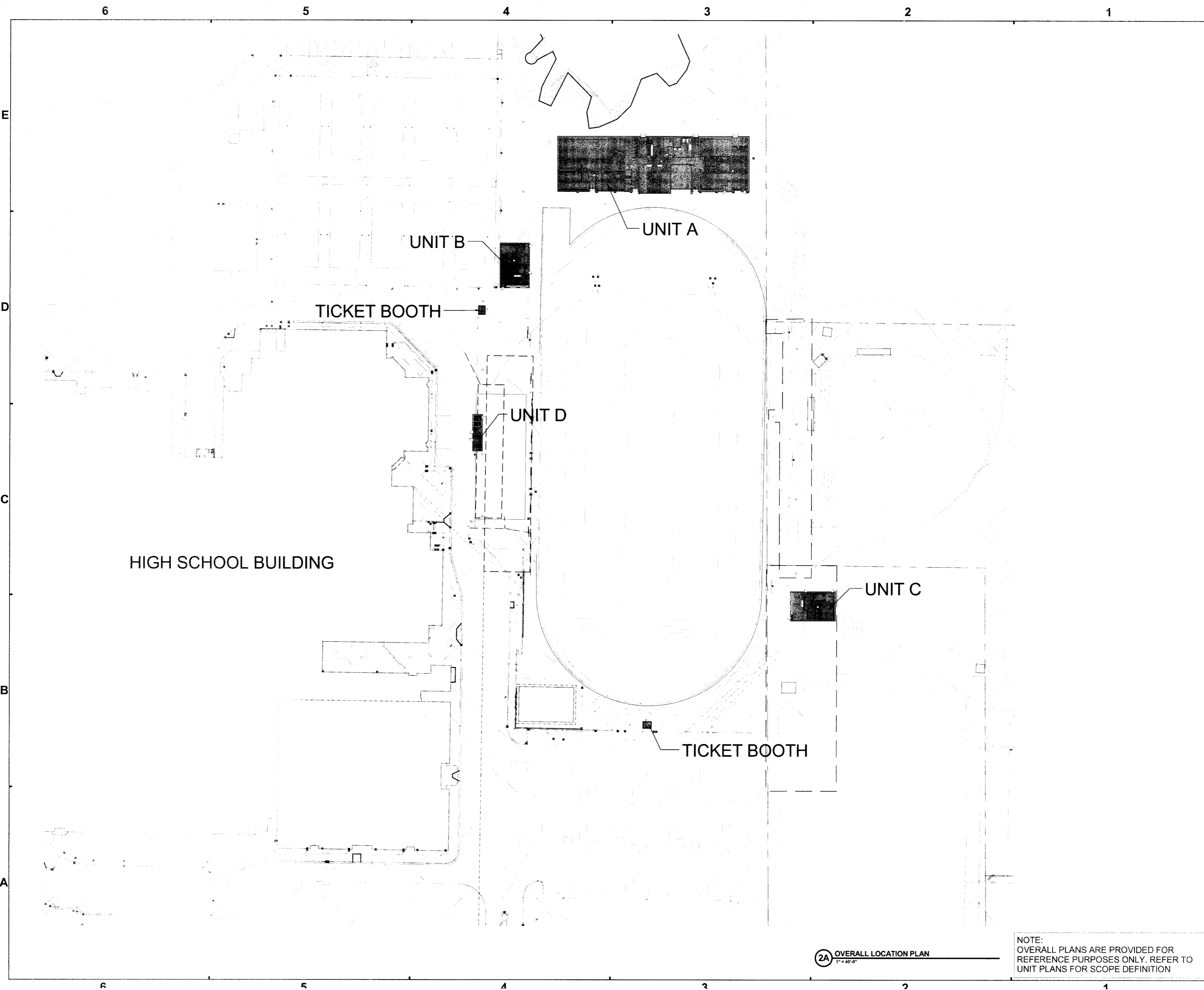
101

UNIT A

UNIT B



<h1 style="margin: 0;">SCHMIDT</h1>  <h2 style="margin: 0;">ASSOCIATES</h2> <p style="margin: 0;">415 Massachusetts Avenue Indianapolis, Indiana 46204 www.schmidt-arch.com</p>		
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#	Revision	Date
<p>7300 E. 56th Street Indianapolis, IN 46226</p>  <p>KEY PLAN</p>		
<p>MSD OF LAWRENCE TOWNSHIP</p>  <p>LC EXTERIOR FACILITY UPGRADES - BP2</p>		
<p>WALL TYPES</p> <p>A-002</p>		



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Project No. 2015-121.LCS
Project Date 04.18.2016
Prepared BGB

Professional Seal: M. S. Schmidt, No. 32631, State of Indiana, Architect

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KEY PLAN

MSD OF LAWRENCE TOWNSHIP

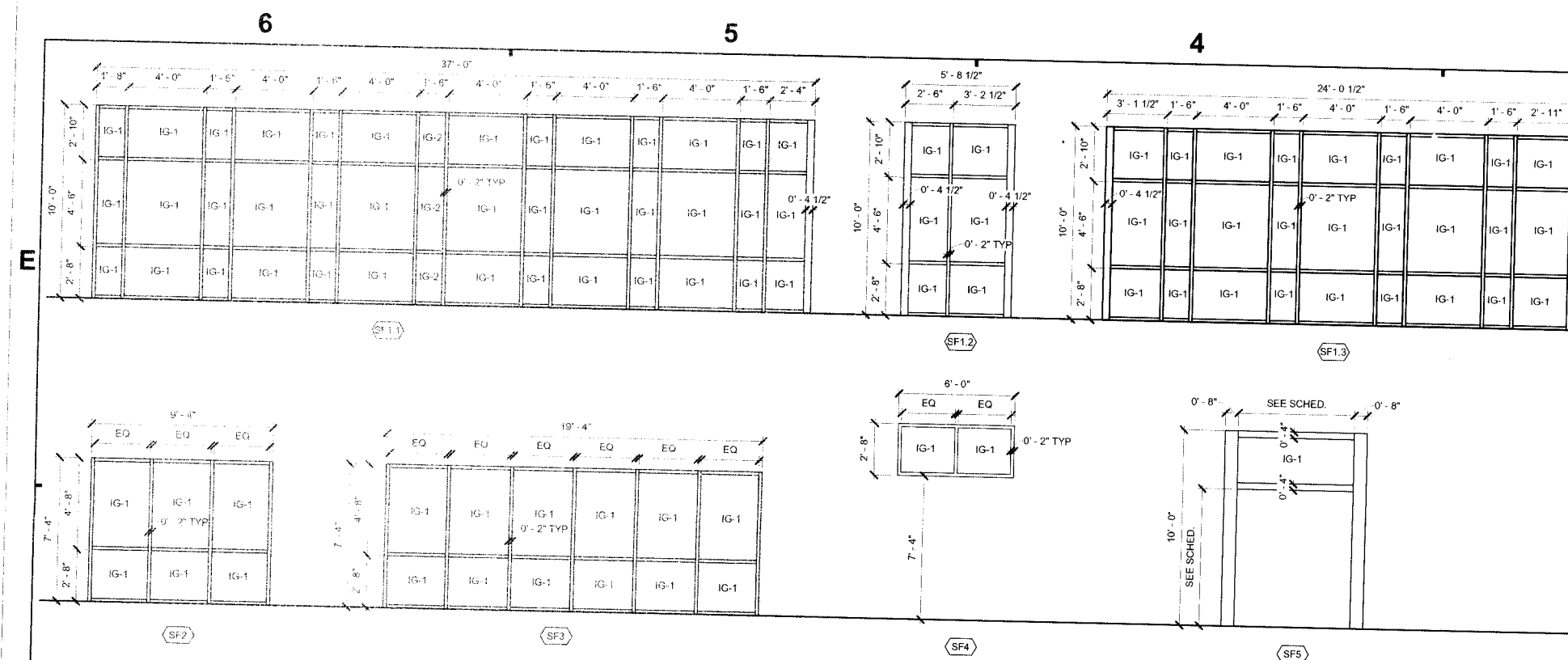
LC EXTERIOR FACILITY UPGRADES

OVERALL LOCATION PLAN

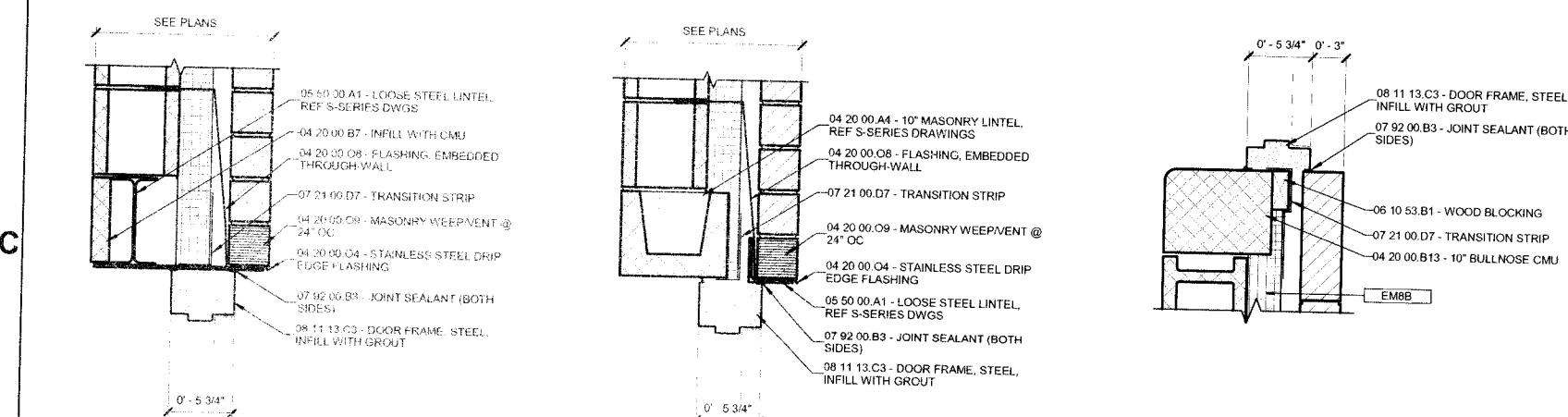
A-101

2A OVERALL LOCATION PLAN
1" = 40'-0"

NOTE:
OVERALL PLANS ARE PROVIDED FOR
REFERENCE PURPOSES ONLY. REFER TO
UNIT PLANS FOR SCOPE DEFINITION



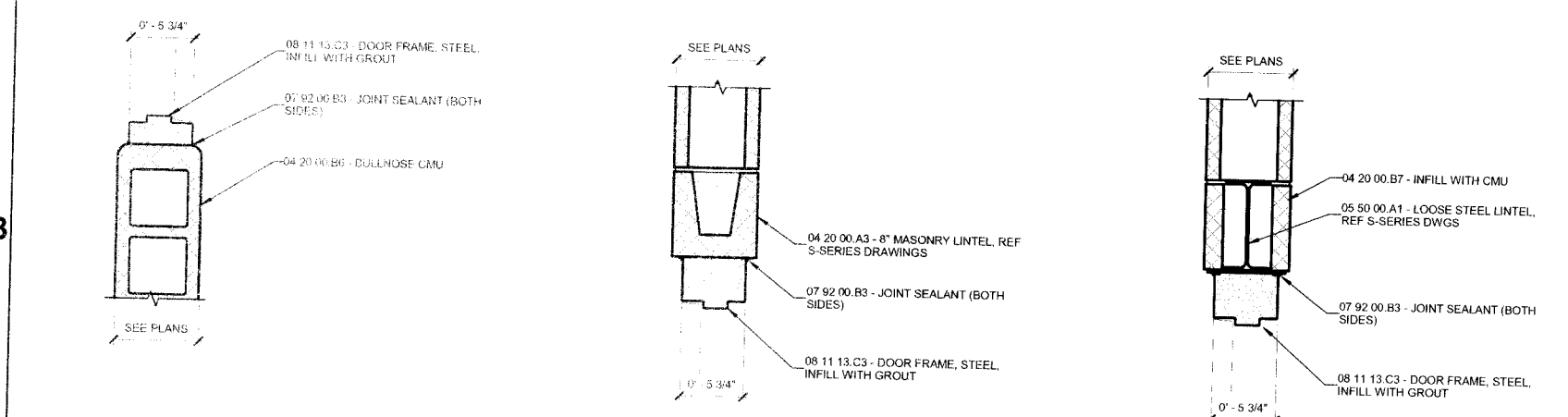
6E 5.4.600 - STOREFRONT FRAME ELEVATIONS
1/4" = 1'-0"



6C HEAD (LOAD BEARING)
1 1/2" = 1'-0"

5C HEAD
1 1/2" = 1'-0"

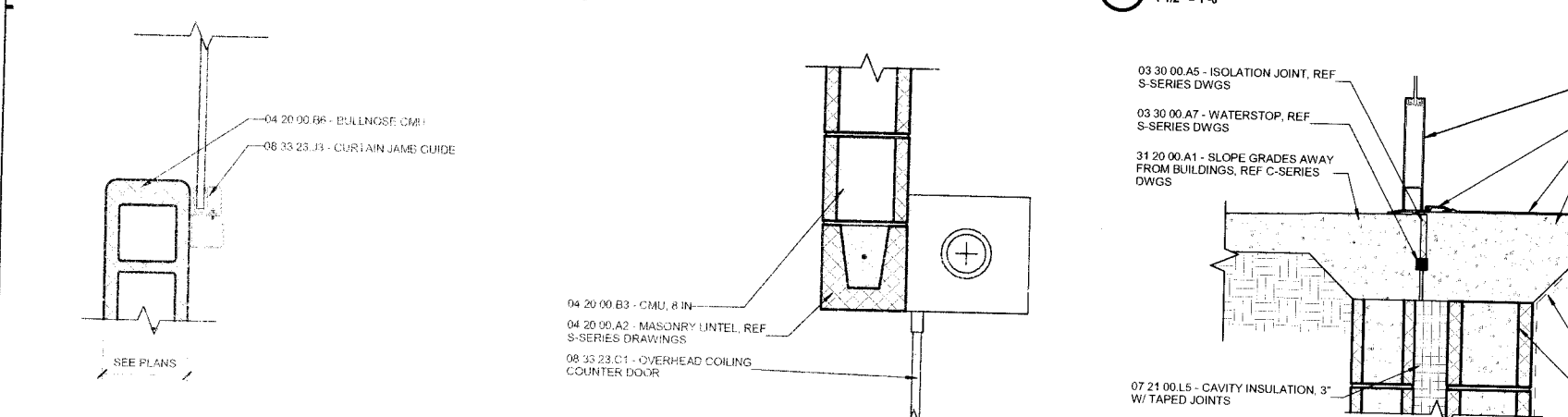
4C JAMB
1 1/2" = 1'-0"



6B JAMB
1 1/2" = 1'-0"

5B HEAD
1 1/2" = 1'-0"

4B HEAD (LOAD BEARING)
1 1/2" = 1'-0"



6A COILING DOOR JAMB
1 1/2" = 1'-0"

5A COILING DOOR HEAD
1 1/2" = 1'-0"

4A FOUNDATION - THRESHOLD
1 1/2" = 1'-0"

END ZONE (UNIT A) - DOOR & FRAME SCHEDULE													
DOOR PANEL							FRAME						
MARK	TYPE	QTY	MATL	GLAZ	H	W	TH	MARK	MATL	GLAZ	LABEL	HDWR SET	NOTES
S100	G	1	HM	IG	7'-0"	3'-0"	0'-1 3/4"	F1	HM	IG			
S100A	F	1	HM	IG	7'-0"	3'-0"	0'-1 3/4"	F1	HM	IG			
S100B	F	1	HM	IG	7'-0"	3'-0"	0'-1 3/4"	F1	HM	IG			
S101	F	1	HM	IG	7'-0"	3'-0"	0'-1 3/4"	F1	HM	IG			
S101.1	F	1	HM	IG	7'-0"	3'-0"	0'-1 3/4"	F1	HM	IG			
S101.2	F	1	HM	IG	7'-0"	3'-0"	0'-1 3/4"	F1	HM	IG			
S101B	F	1	HM	IG	7'-0"	3'-0"	0'-1 3/4"	F1	HM	IG			
S102	F	1	HM	IG	7'-0"	3'-0"	0'-1 3/4"	F1	HM	IG			
S103	F	1	HM	IG	7'-0"	3'-0"	0'-1 3/4"	F1	HM	IG			
S104	F	1	HM	IG	7'-0"	3'-0"	0'-1 3/4"	F1	HM	IG			
S105	FG	1	HM	IG	7'-0"	3'-0"	0'-1 3/4"	F1	HM	IG			
S105.1	FG	1	HM	IG	7'-0"	3'-0"	0'-1 3/4"	F1	HM	IG			
S105.2	FG	1	HM	IG	7'-0"	3'-0"	0'-1 3/4"	F1	HM	IG			
S106	F	1	HM	IG	7'-0"	3'-0"	0'-1 3/4"	F1	HM	IG			
S106.1	F	1	HM	IG	7'-0"	3'-0"	0'-1 3/4"	F1	HM	IG			
S106.2	F	1	HM	IG	7'-0"	3'-0"	0'-1 3/4"	F1	HM	IG			
S106.3	CHC	2	HM	IG	7'-0"	3'-0"	0'-1 3/4"	F1	HM	IG			
S107	F	1	HM	IG	7'-0"	3'-0"	0'-1 3/4"	F1	HM	IG			
S108	F	1	HM	IG	7'-0"	3'-0"	0'-1 3/4"	F1	HM	IG			
S109	G	1	HM	IG	7'-0"	3'-0"	0'-1 3/4"	F1	HM	IG			
S110	F	1	HM	IG	7'-0"	3'-0"	0'-1 3/4"	F1	HM	IG			
S110A	F	1	HM	IG	7'-0"	3'-0"	0'-1 3/4"	F1	HM	IG			
S111	F	1	HM	IG	7'-0"	3'-0"	0'-1 3/4"	F1	HM	IG			
S111.1	F	1	HM	IG	7'-0"	3'-0"	0'-1 3/4"	F1	HM	IG			
S111.2	F	1	HM	IG	7'-0"	3'-0"	0'-1 3/4"	F1	HM	IG			
S112	F	1	HM	IG	7'-0"	3'-0"	0'-1 3/4"	F1	HM	IG			
S113	F	1	HM	IG	7'-0"	3'-0"	0'-1 3/4"	F1	HM	IG			
S113.1	F	1	HM	IG	7'-0"	3'-0"	0'-1 3/4"	F1	HM	IG			
S113.2	F	1	HM	IG	7'-0"	3'-0"	0'-1 3/4"	F1	HM	IG			
S113.3	CH	1	HM	IG	7'-0"	3'-0"	0'-1 3/4"	F1	HM	IG			
S114	F	1	HM	IG	7'-0"	3'-0"	0'-1 3/4"	F1	HM	IG			
S115	F	1	HM	IG	7'-0"	3'-0"	0'-1 3/4"	F1	HM	IG			
S116	FG	2	AL	IG	7'-0"	3'-0"	0'-1 3/4"	F1	HM	IG			
S116.1	FG	2	AL	IG	7'-0"	3'-0"	0'-1 3/4"	F1	HM	IG			
S116.2	FG	2	AL	IG	7'-0"	3'-0"	0'-1 3/4"	F1	HM	IG			
S117	F	1	HM	IG	7'-0"	3'-0"	0'-1 3/4"	F1	HM	IG			

RESTROOM/CONCESSION (UNIT B) - DOOR & FRAME SCHEDULE													
DOOR PANEL							FRAME						
MARK	TYPE	QTY	MATL	GLAZ	H	W	TH	MARK	MATL	GLAZ	LABEL	HDWR SET	NOTES
S140	F	1	HM	IG	7'-0"	3'-0"	0'-1 3/4"	F1	HM	IG			
S141	F	1	HM	IG	7'-0"	3'-0"	0'-1 3/4"	F1	HM	IG			
S142	F	1	HM	IG	7'-0"	3'-0"	0'-1 3/4"	F1	HM	IG			
S143	F	1	HM	IG	7'-0"	3'-0"	0'-1 3/4"	F1	HM	IG			
S144	F	1	HM	IG	7'-0"	3'-0"	0'-1 3/4"	F1	HM	IG			
S144.1	CHC	2	HM	IG	7'-0"	3'-0"	0'-1 3/4"	F1	HM	IG			
S144.2	CHC	2	HM	IG	7'-0"	3'-0"	0'-1 3/4"	F1	HM	IG			

RESTROOM/CONCESSION (UNIT C) - DOOR & FRAME SCHEDULE													
DOOR PANEL							FRAME						
MARK	TYPE	QTY	MATL	GLAZ	H	W	TH	MARK	MATL	GLAZ	LABEL	HDWR SET	NOTES
S150	F	1	HM	IG	7'-0"	3'-0"	0'-1 3/4"	F1	HM	IG			
S151	F	1	HM	IG	7'-0"	3'-0"	0'-1 3/4"	F1	HM	IG			
S152	F	1	HM	IG	7'-0"	3'-0"	0'-1 3/4"	F1	HM	IG			
S153	F	1	HM	IG	7'-0"	3'-0"	0'-1 3/4"	F1	HM	IG			
S154	F	1	HM	IG	7'-0"	3'-0"	0'-1 3/4"	F1	HM	IG			
S154.1	CHC	1	HM	IG	7'-0"	3'-0"	0'-1 3/4"	F1	HM	IG			
S154.2	CHC	1	HM	IG	7'-0"	3'-0"	0'-1 3/4"	F1	HM	IG			
S154.3	CHC	1	HM	IG	7'-0"	3'-0"	0'-1 3/4"	F1	HM	IG			

GRANDSTANDS (UNIT D) - DOOR & FRAME SCHEDULE													
DOOR PANEL							FRAME						
MARK	TYPE	QTY	MATL	GLAZ	H	W	TH	MARK	MATL	GLAZ	LABEL	HDWR SET	NOTES
S160	FG	1	HM	IG	7'-0"	3'-0"	0'-1 3/4"	F1	HM	IG			
S162	F	1	HM	IG	7'-0"	3'-0"	0'-1 3/4"	F1	HM	IG			
S163	F	1	HM	IG	7'-0"	3'-0"	0'-1 3/4"	F1	HM	IG			
S164	FG	1	HM	IG	7'-0"	3'-0"	0'-1 3/4"	F1	HM	IG			

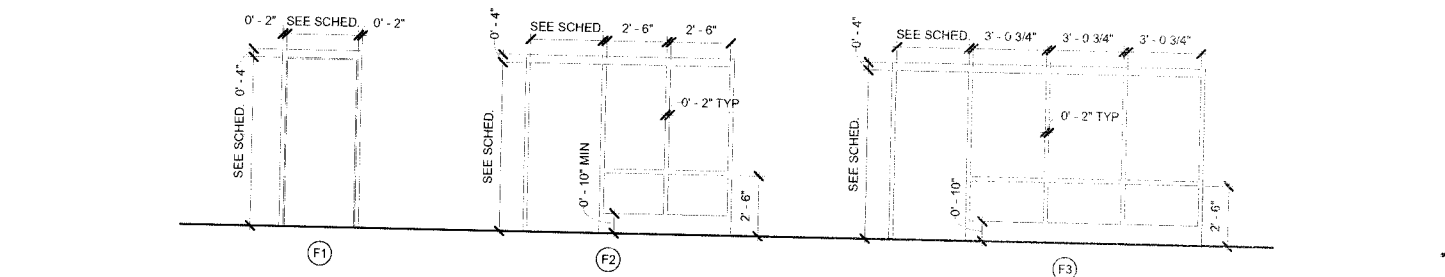
GENERAL NOTES

A. This Door Schedule(s) is furnished for whatever assistance it may afford the Contractor. Do not consider it as entirely inclusive. Carefully examine the Drawings (especially the Floor Plans) and the Specifications to determine the extent of door and frame quantities required (including interior borrowed fire or smoke doors). Should any particular door, frame, or interior borrowed fire or smoke door be shown on the Drawings but not included in this Door Schedule, supply same as required for similar openings.

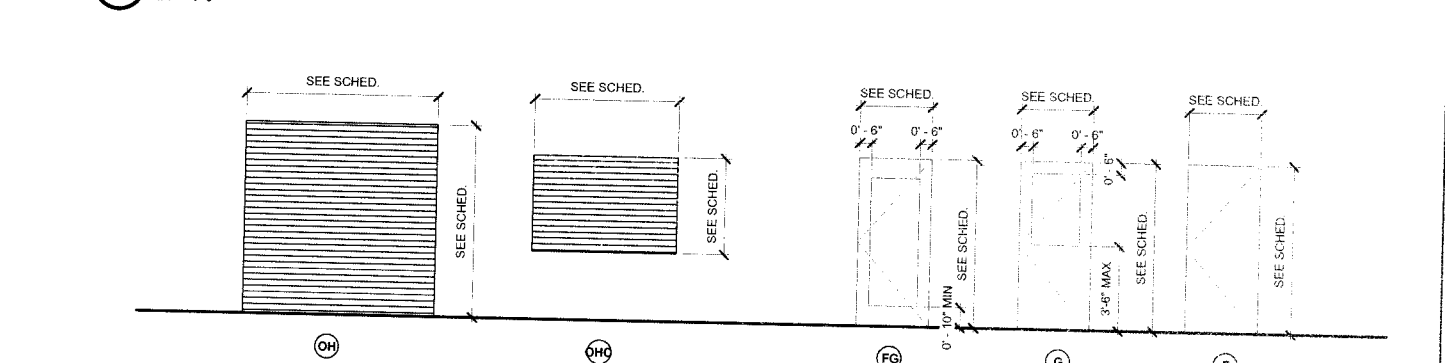
B. The "QTY" column designates the number of leaves in the opening. The "Door Width" column designates the total width of all leaves. In multiple leaf conditions, the active leaf shall not be less than 3'-0" wide.

C. Verify locksets with the Owner during submittals.

5.4.600 - HOLLOW METAL FRAME ELEVATIONS													
DOOR PANEL							FRAME						
MARK	TYPE	QTY	MATL	GLAZ	H	W	TH	MARK	MATL	GLAZ	LABEL	HDWR SET	NOTES
S160	FG	1	HM	IG	7'-0"	3'-0"	0'-1 3/4"	F1	HM	IG			
S162	F	1	HM	IG	7'-0"	3'-0"	0'-1 3/4"	F1	HM	IG			
S163	F	1	HM	IG	7'-0"	3'-0"	0'-1 3/4"	F1	HM	IG			
S164	FG	1	HM	IG	7'-0"	3'-0"	0'-1 3/4"	F1	HM	IG			



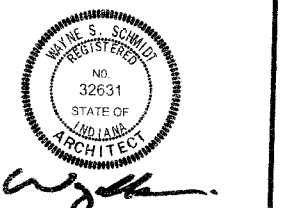
5.4.600 - HOLLOW METAL FRAME ELEVATIONS
1/4" = 1'-0"



5.4.600 - DOOR PANEL ELEVATIONS
1/4" = 1'-0"

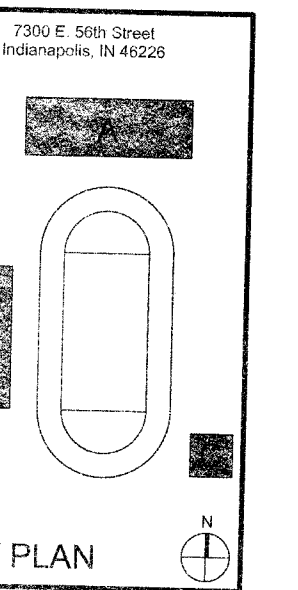
SCHMIDT ASSOCIATES
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Project No. 2015-121.LCS
Project Date 04.18.2016
Produced BGB



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MSD OF LAWRENCE TOWNSHIP

LC EXTERIOR FACILITY UPGRADES - BP2

DOOR & FRAME SCHEDULE
A-600

ABBREVIATIONS	
P	PUMP
PC	PLUMBING CONTRACTOR
PD	PRESSURE DROP (IN OR WG AS NOTED)
PER	PERCENT
PH	PHASE
PI	PRESSURE INDICATOR
PIV	POST INDICATOR VALVE
PLT	PLASTER TRAP
POC	POINT OF CONNECTION (NEW TO EXISTING)
PPM	PARTS PER MILLION
PREF AB	PREFABRICATED
PRESS	PRESSURE
PRV	PRESSURE REDUCING VALVE
PSI	POUNDS PER SQUARE INCH
PSIG	POUNDS PER SQUARE INCH GAUGE
PVC	POLYVINYL CHLORIDE
R	THERMAL RESISTANCE
RCBP	REINFORCED CONCRETE PIPE
RD	ROOF DRAIN
RECIR	RECIRCULATE (OR) (ING)
RH	RODDING HOLE
RM	ROOM
RO	REVERSE OSMOSIS WATER
RPM	REVOLUTIONS PER MINUTE
SB	SITZ BATH
SCW	SOFT COLD WATER (DOMESTIC)
SECT	SECTION
SF	SQUARE FOOT
SH	SHOWER
SHT	SHEET
SK	SINK
SPEC	SPECIFICATIONS
SPG	SPECIAL GAS
SS	STAINLESS STEEL
SSD	SUB SURFACE (FOOTING) DRAIN
SSK	SERVICE SINK
ST	STORAGE TANK
STD	STANDARD
STP	STORAGE TANK PUMP
STS, STR	STORAGE TANK SUPPLY AND RETURN
STRUCT	STRUCTURE (E), (A) 1
SUJ	SHOWER UNIT
T&P	TEMPERATURE AND PRESSURE
T	TEMPERED WATER
TEMP	TEMPERATURE
TMV	THERMOSTATIC MIXING VALVE
TP	TRAP PRIMER
TS	TAMPER SWITCH
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
UR	URNAL
VA	VOLT AMPERE
VAC	VACUUM
VAR	VARIABLE
VB	VACUUM BREAKER
VC	VACUUM CLEANING
VERT	VERTICAL
VIF	VERIFY IN FIELD
VT	VITRIFIED TILE
VPD	VACUUM PUMP DISCHARGE
VTR	VENT THROUGH ROOF
VV	VACUUM VENT
W	WITH
WC	WATER CLOSET
W.C	WATER COLUMN
WCO	WALL CLEANOUT
WG	WATER GAUGE
WH	WALL HYDRANT
W/O	WITHOUT
WP	WEATHERPROOF
WPD	WATER PRESSURE DROP
WTR	WATER
YD	YARD DRAIN
ZN	ZONE

PLUMBING SYMBOLS	
	DOMESTIC COLD WATER (CW) FOR CONSUMPTION
	DOMESTIC HOT WATER (HW) FOR CONSUMPTION
	RECIRCULATED DOMESTIC HOT WATER (HW/R) FOR CONSUMPTION
	140° DOMESTIC HOT WATER (HW)
	140° RECIRCULATED DOMESTIC HOT WATER (HW/R)
	SOFT COLD WATER
	STORM SEWER
	WASTE
	ACID RESISTANT SANITARY
	ACID RESISTANT VENT
	GREASE SANITARY
	WALL HYDRANT
	VENT PIPING (V)
	TEMPERED WATER
	GAS PIPING
	FLOOR DRAIN W/DESIGNATION
	ROOF DRAIN & OVERFLOW DRAIN W/DESIGNATION
	END OF PIPE CLEAN OUT W/DESIGNATION
	FLOOR CLEAN OUT W/DESIGNATION
	WALL CLEAN OUT W/DESIGNATION
	HOSE BIB
	REVERSE OSMOSIS
	REVERSE OSMOSIS RETURN
	POTABLE SOFT COLD WATER
	POTABLE COLD WATER (DOMESTIC)
	POTABLE HOT WATER (DOMESTIC)
	POTABLE HOT WATER RETURN
	DOMESTIC DEIONIZED WATER PIPING
	DOMESTIC DEIONIZED WATER RETURN PIPING
	COMPRESSED AIR (HIGH PRESSURE DRY)
	ARGON
	MIXED GAS
	VACUUM
	NITROGEN

GENERAL DUTY VALVES, FITTINGS	
	RISE IN PIPING
	DROP IN PIPING
	CAPPED PIPE
	PIPE CONTINUED ON ANOTHER DRAWING
	CHECK VALVE
	PLUG VALVE
	PRESSURE REGULATING VALVE
	VALVE - SEE SPECIFICATIONS FOR VALVE TYPE
	BUTTERFLY VALVE
	RELIEF VALVE
	TRIPLE DUTY VALVE
	VALVE IN RISER
	ANGLE VALVE
	MANUAL BALANCING VALVE
	AUTOMATIC BALANCING VALVE
	TWO-WAY CONTROL VALVE
	THREE-WAY CONTROL VALVE
	UNION
	THERMOMETER WELL
	THERMOMETER & WELL
	GAUGE CONNECTION(S) & WELL
	MANUAL AIR VENT
	AUTOMATIC AIR VENT
	PET'S PLUG
	Y-STRAINER W/BLOWDOWN VALVE & CAP
	PIPE GUIDES
	PIPE ANCHORS
	FLEXIBLE PIPING CONNECTOR
	PIPE EXPANSION JOINT
	STEAM TRAP W/DESIGNATION
	EXPANSION LOOP (SIZE INDICATED ON DRAWINGS)
	GAS COCK
	DOUBLE CHECK VALVE BACKFLOW PREVENTER
	REDUCED PRESSURE BACKFLOW PREVENTER
	VACUUM BREAKER (P) = PRESSURE (A) = ATMOSPHERIC
	DOMESTIC COLD WATER VALVE BOX
	CONCENTRIC REDUCER
	ECCENTRIC REDUCER
	PRESSURE REDUCING VALVE

PLUMBING GENERAL NOTES

1. ALL CONCRETE WORK WILL COMPLY WITH THE SPECIFICATIONS UNDER DIVISION 5 "CAST-IN-PLACE CONCRETE".
2. REFERENCE SPECIFICATION SECTION 022500 FOR SCHEDULE OF ALTERNATES.
3. SEE DRAWING M-001 FOR ADDITIONAL NOTES.
4. MECHANICAL CONTRACTOR SHALL PROVIDE CONCRETE PADS FOR ALL FLOOR MOUNTED PLUMBING EQUIPMENT.
5. THE BUILDING SHALL BE FULLY SPRINKLERED. FIRE PROTECTION CONTRACTOR SHALL DESIGN THE COMPLETE SYSTEM ACCORDING TO THE CRITERIA OUTLINED ON THE DRAWINGS. ALL THE SPECIFICATIONS, NFPA 13 AND NFPA 14, THE ENTIRE BUILDING SHALL BE PROTECTED BY A WET PIPE SPRINKLER SYSTEM.
6. FIRE PROTECTION CONTRACTOR SHALL PREPARE ALL DRAWINGS AND APPLICATIONS REQUIRED TO OBTAIN APPROVAL OF THE SYSTEM BY OWNERS, INSURANCE, UNDERWRITER, STATE AND LOCAL AUTHORITIES HAVING JURISDICTION. ALL DRAWINGS TO BE SUBMITTED DURING CONSTRUCTION.
7. FIRE PROTECTION CONTRACTOR SHALL SUBMIT DRAWINGS WITH ALL SPRINKLER HEAD LOCATIONS. ALL SPRINKLER HEADS TO BE LAID OUT HEAVY WITHIN THE CEILING SYSTEMS AND BE COORDINATED WITH ALL BUILDERS, CEILING, AND STRUCTURE. REFERENCE ARCHITECTURAL DRAWINGS FOR CEILING PLANS.
8. ALL PIPING, ZONES, ZONES AND SPRINKLER MAINS SHOWN ON DRAWINGS ARE FOR BIDDING AND DESIGN INTENT ONLY. FIRE PROTECTION CONTRACTOR IS RESPONSIBLE FOR PROPER COVERAGE AND CAPACITY OF THE SPRINKLER SYSTEM.
9. SPRINKLER PIPING SHALL NOT BE ROUTED THRU ANY TECHNOLOGY EQUIPMENT ROOMS (TR OR ERI), USE SUEWALL SPRINKLER HEADS WITH GUARDS TO SERVE THE ROOMS.
10. REFER TO SPECIFICATION 2012312 FOR NATURAL GAS PIPING SYSTEM.

FIRE PROTECTION SYMBOLS

	FIRE WATER MAIN
	POST INDICATOR VALVE
	FIRE DEPT. CONNECTION
	FLOW SWITCH
	TAMPER SWITCH
	UPRIGHT SPRINKLER HEAD
	PENDANT SPRINKLER HEAD
	DRY PENDANT SPRINKLER HEAD
	SIDEWALL SPRINKLER HEAD
	CONCEALED PENDANT SPRINKLER HEAD
	ZONE VALVE (OS&V)
	ALARM VALVE

DRAWING NOTATIONS

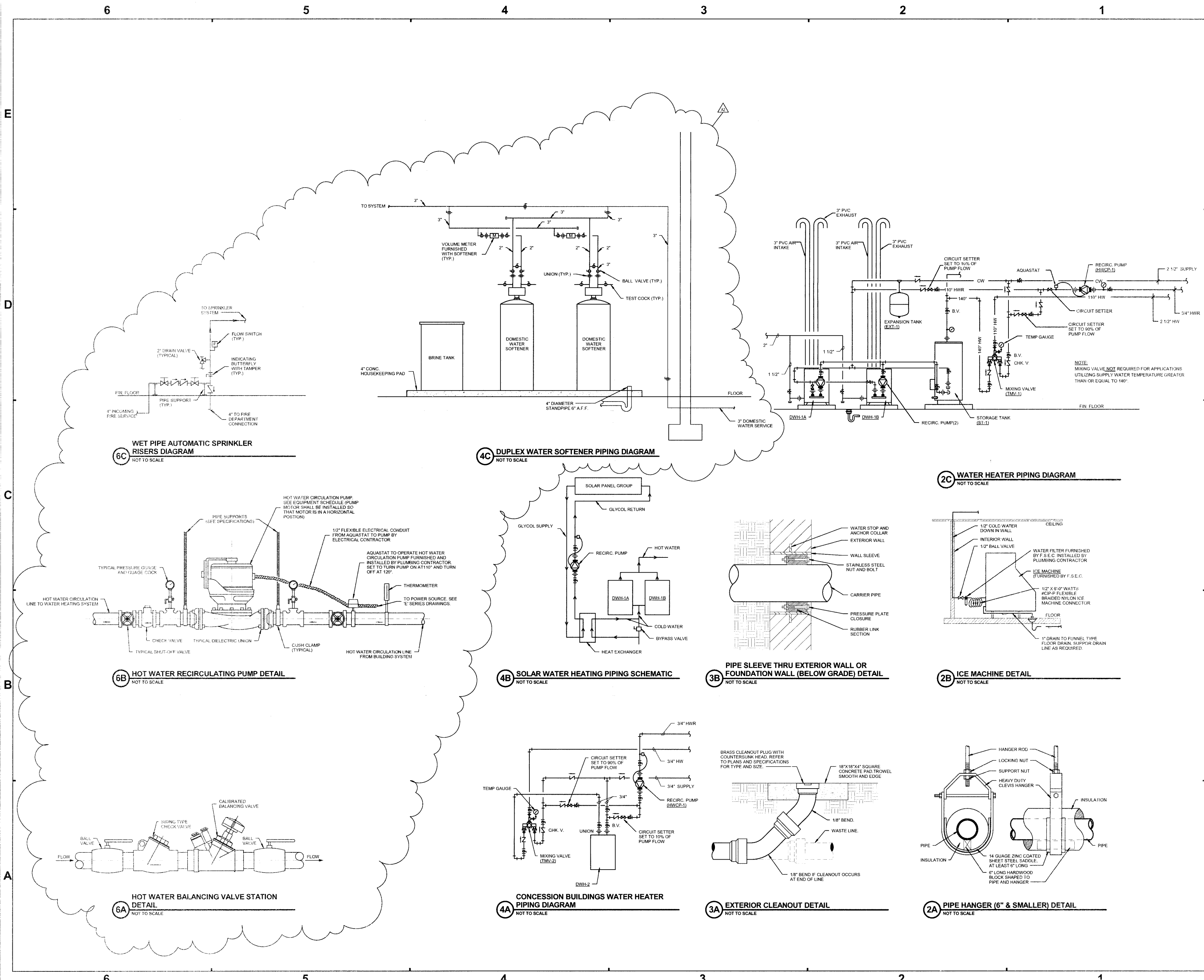
PLAN NOTE

DETAIL REFERENCE

SECTION REFERENCE

NOTE:
ALL SYMBOLS AND ABBREVIATIONS
MAY NOT BE USED FOR THIS PROJECT

P-001

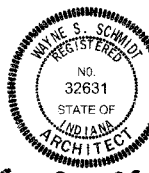


SCHMIDT



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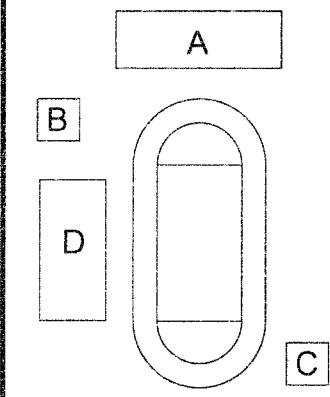
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#	Revision	Date
A2	ADDENDUM NO. 2	05.06.2016

7300 E. 56th Street
Indianapolis, IN 46226



KEY PLAN

MSD OF
LAWRENCE
TOWNSHIP



LC EXTERIOR
FACILITY
UPGRADES - BP2

PLUMBING DETAILS

P-500

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LAVATORY SCHEDULE (224216.13)										
IDENTITY DATA				FAUCET		FIXTURE CONNECTION				ADA COMPLIANT
MARK	MANUFACTURER	MODEL	DESCRIPTION	MANUFACTURER	MODEL	CW	HW	W	V	NOTES
L-1	ZURN	#234H	VITREOUS CHINA WALL MOUNTED WITH BACK	ZURN	#28101-XL-3M	1/2"	1/2"	1 1/2"	1 1/2"	CARRIER - ZURN (21201)
L-2	ZURN	#234H	VITREOUS CHINA WALL MOUNTED WITH BACK	ZURN	#28101-XL-3M	1/2"	1/2"	1 1/2"	1 1/2"	CARRIER - ZURN (21201)

SINK SCHEDULE (224216.16)										
IDENTITY DATA				FAUCET		FIXTURE CONNECTION				ADA COMPLIANT
MARK	MANUFACTURER	MODEL	DESCRIPTION	MANUFACTURER	MODEL	CW	HW	W	V	NOTES
MS-1	ZURN	#2136-24	PLASTIC FLOOR MOUNTED W/SP BASIN	ZURN	Z83M1-RC	3/4"	3/4"	3"	1 1/2"	FLOOR MOUNTED
SK-1	ELKAY	#R2219	STAINLESS STEEL, ONE BOWL, COUNTER MOUNTED SINK	ZURN	Z831B-XL	1/2"	1/2"	1 1/2"	1 1/2"	31"
TB-1	BY OWNER			ZURN	Z83M1-RC	3/4"	3/4"	3"	1 1/2"	FLOOR MOUNTED

WATER CLOSET SCHEDULE (224213.13)												
IDENTITY DATA				FLUSHOMETER		TOILET SEAT		FIXTURE CONNECTION		ADA COMPLIANT	NOTES	
MARK	MANUFACTURER	MODEL	DESCRIPTION	MANUFACTURER	MODEL	CW	W	V	(FLOOR TO 15")			
WC-1	ZURN	#25615-BWL	WALL MOUNTED, TOP SPUD	ZURN	#26000-WS1-VC-YB-YC	CLOSED BACK, OPEN FRONT	1"	4"	2"	1 1/4"	No	CARRIER - ZURN (21201-N, S)
WC-2	ZURN	#25615-BWL	WALL MOUNTED, TOP SPUD	ZURN	#26000-WS1-VC-YB-YC	CLOSED BACK, OPEN FRONT	1"	4"	2"	1 1/4"	Yes	CARRIER - ZURN (21201-N, S)

PRESSURE WATER COOLER SCHEDULE (224216)										
IDENTITY DATA				FAUCET		FIXTURE CONNECTION				ADA COMPLIANT
MARK	MANUFACTURER	MODEL	DESCRIPTION	MANUFACTURER	MODEL	CW	HW	W	V	NOTES
EW-1	ELKAY	#VRCGRNWSK	ELECTRIC WATER COOLER, BOTTLE FILLER			3/4"	1 1/2"	1 1/2"	1 1/2"	30" A.F.F.
EW-2	ELKAY	#VRCGRNWSK	ELECTRIC WATER COOLER, BOTTLE FILLER			3/4"	1 1/2"	1 1/2"	1 1/2"	30" A.F.F.

SANITARY WASTE PIPING SPECIALTIES SCHEDULE (221319)										
IDENTITY DATA				FAUCET		FIXTURE CONNECTION				ADA COMPLIANT
MARK	MANUFACTURER	MODEL	DESCRIPTION	MANUFACTURER	MODEL	CW	HW	W	V	NOTES
FD-1 (2')	ZURN	#2411B	DUCCO CAST IRON BODY, BOTTOM OUTLET, MEMBRANE CLAMP AND ADJUSTABLE COLLAR WITH SEEPAGE SLOTS, POLISHED NICKEL BRONZE STRAINER			1"	4"	2"	1/4"	2"
FD-2 (4')	ZURN	#2525-Y	DUCCO CAST IRON BODY WITH FLASHING CLAMP, ROUND STRAINER HEAD, CAST IRON STRAINER, NO-HUB OUTLET, SEDIMENT BUCKET			1"	4"	2"	1/4"	4"
FD-3 (4')	ZURN	#2411G	DUCCO CAST IRON BODY WITH FLASHING CLAMP, ADJUSTABLE DOMED STRAINER HEAD			1"	4"	2"	1/4"	4"
FD-4 (2')	ZURN	#2411S	DUCCO CAST IRON BODY WITH FLASHING CLAMP, ADJUSTABLE, RECESSED, ANTI-FLOOD, STRAINER HEAD			1"	4"	2"	1/4"	2"
OPD-1 (3')	ZURN	#2C100-C-EA-R-89	DUCCO CAST IRON BODY WITH FLASHING CLAMP AND GRAVEL STOP WITH CAST IRON DOME, ADJUSTABLE BODY EXTENSION, 2" HIGH EXTERNAL WATER DAM			1"	4"	2"	1/4"	3"
OPD-1 (4')	ZURN	#2C100-C-EA-R-89	DUCCO CAST IRON BODY WITH FLASHING CLAMP AND GRAVEL STOP WITH CAST IRON DOME, ADJUSTABLE BODY EXTENSION, 2" HIGH EXTERNAL WATER DAM			1"	4"	2"	1/4"	4"
RD-1 (2')	ZURN	#2C100-C-EA-R-89	DUCCO CAST IRON BODY WITH FLASHING CLAMP, CAST IRON DOME, ADJUSTABLE BODY EXTENSION			1"	4"	2"	1/4"	4"
RD-1 (4')	ZURN	#2C100-C-EA-R-89	DUCCO CAST IRON BODY WITH FLASHING CLAMP, CAST IRON DOME, ADJUSTABLE BODY EXTENSION			1"	4"	2"	1/4"	4"
TD-1	ZURN	#2886-FS	TWO (2) SECTIONS, 13'-4" LONG, CENTER DRAIN, BOTTOM OUTLET, HOPE GRATE			1"	4"	2"	1/4"	3"
TD-2	ZURN	#2886-FS	6'-0" CENTER DRAIN, BOTTOM OUTLET, SLOTTED STAINLESS STEEL GRATE			1"	4"	2"	1/4"	3"

PLUMBING EQUIPMENT SCHEDULE										
IDENTITY DATA				FAUCET		FIXTURE CONNECTION				ADA COMPLIANT
MARK	MANUFACTURER	MODEL	DESCRIPTION	MANUFACTURER	MODEL	CW	HW	W	V	NOTES
CP-1	BELL & GOSSETT	#NFB-22	HOT WATER CIRCULATING PUMP			1 1/2"	1 1/2"	1 1/2"	1 1/2"	AQUASTAT CONTROLLER
CPV-1	WILKINS	#55-8C-4"	DOUBLE CHECK VALVE ASSEMBLY			1 1/2"	1 1/2"	1 1/2"	1 1/2"	
DWH-1A	LOCHINVAR	#AVN200PM	CONDENSING WATER HEATER			233 GPM @ 100 DEGREE TEMP RISE, 190,000 BTU	120 V	1		
DWH-1B	LOCHINVAR	#AVN200PM	CONDENSING WATER HEATER			233 GPM @ 100 DEGREE TEMP RISE, 190,000 BTU	120 V	1		
EXT-1	AMTROL	#ST-12	THERMAL EXPANSION TANK			4.4 GALLON TANK VOLUME, 3.2 GALLON ACCEPTABLE VOLUME				
GI-1	ZURN	#GT2700-25	GREASE INTERCEPTOR			25 GPM FLOW RATE, 50 LBS GREASE CAPACITY				FLOW CONTROL INLET FITTINGS
TWV-1	SYMMONS	#1400	THERMOSTATIC MIXING VALVE WITH CHECK STOPS			27 GPM @ 10 PSI DROP				
TWV-2	SYMMONS	#1225	THERMOSTATIC MIXING VALVE WITH CHECK STOPS			7 GPM @ 10 PSI DROP				
CP-2	BELL & GOSSETT	#NFB-12LW	HOT WATER CIRCULATING PUMP			3 GPM @ 10' HEAD	115 V	1	0.48 A	2800
DWH-2	LOCHINVAR	#ETT050MD	COMPACT ELECTRIC WATER HEATER			50 GALLONS STORAGE, 42 GPM RECOVERY @ 100 DEGREE TEMP RISE, (2) 3000 WATT ELEMENTS	208 V	3	0.00 A	
DWS-1	AQUA SYSTEMS	(2) K2000-360-2"	DUPLEX DOMESTIC WATER SOFTENER			32 GPM CONTINUOUS FLOW, 50 GPM PEAK FLOW, 3.0 CU. FT. RESIN				
ST-1	LOCHINVAR	#RJ4357	VERTICAL ROUND JACKETED ASME TANK			257 GALLONS				

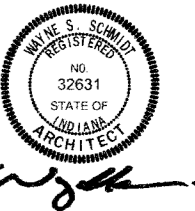
DOMESTIC WATER PIPING SPECIALTIES (221119)										
IDENTITY DATA				FAUCET		FIXTURE CONNECTION				ADA COMPLIANT
MARK	MANUFACTURER	MODEL	DESCRIPTION	MANUFACTURER	MODEL	CW	HW	W	V	NOTES
HB-1	ZURN	#21333	HOSE BIBB			3/4"				12" A.F.F.
HB-2	ZURN	#21341XL	WALL HYDRANT			3/4"				12" A.F.F.
MB-1	GUY GRAY	#SIS104B	ICEMAKER OUTLET BOX			1/2"				24" A.F.F.
NFBH-1	ZURN	#21321	NON-FREEZE WALL HYDRANT WITH RECESSED BOX			3/4"				18" A.F.F.

URINAL SCHEDULE (224213.16)										
IDENTITY DATA				FLUSHOMETER		FIXTURE CONNECTION				ADA COMPLIANT
MARK	MANUFACTURER	MODEL	DESCRIPTION	MANUFACTURER	MODEL	CW	HW	W	V	NOTES
UR-1	ZURN	#25755-U	WALL-HUNG, BACK OUTLET, WASHOUT, ACCESSIBLE	ZURN	26003	3/4"	2"	1 1/2"	1 1/2"	CARRIER - ZURN (21201)
UR-2	ZURN	#25755-U	WALL-HUNG, BACK OUTLET, WASHOUT, ACCESSIBLE	ZURN	26003	3/4"	2"	1 1/2"	1 1/2"	CARRIER - ZURN (21201)

SHOWER SCHEDULE										
IDENTITY DATA				FLUSHOMETER		FIXTURE CONNECTION				ADA COMPLIANT
MARK	MANUFACTURER	MODEL	DESCRIPTION	MANUFACTURER	MODEL	CW	HW	W	V	NOTES
SH-1			SHOWER BASE AND SURROUND BY ARCHITECT (SPECIFIED IN SECTION 064023), SHOWER DRAIN EQUAL TO JR SMITH #2005-A05 WITH STAINLESS STEEL GRATE	SYMMONS	#1803S	1/2"	1/2"	1 1/2"	1 1/2"	SHOWER - SURFACE MOUNTED SHOWER SYSTEM
SH-2			SHOWER BASE AND SURROUND BY ARCHITECT (SPECIFIED IN SECTION 064023), SHOWER DRAIN EQUAL TO JR SMITH #2005-A05 WITH STAINLESS STEEL GRATE	SYMMONS	#1803S-F5B	1/2"	1/2"	1 1/2"	1 1/2"	SHOWER - ADA SURFACE MOUNTED SHOWER SYSTEM

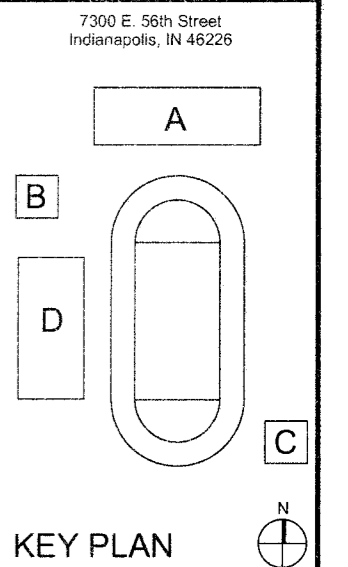
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#	Revision	Date
A2	ADDENDUM NO. 2	05.06.2016



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LC EXTERIOR
FACILITY
UPGRADES - BP2

PLUMBING SCHEDULES

P-600

ABBREVIATIONS

A	AMPERES
AC	ALTERNATING CURRENT
AF	AMPERES FRAME (BREAKER RATING)
AHJ	AIR HANDLING UNIT
AT	AMPERES TRIP (BREAKER SETTING)
ATS	AUTOMATIC TRANSFER SETTING
AUX	AUXILIARY
C	CONDUIT
CB	CIRCUIT BREAKER
CKT	CIRCUIT
CP	CONTROL PANEL
CPT	CONTROL POWER TRANSFORMER
CT	CURRENT TRANSFORMER
DISC	DISCONNECT
DL	DOUBLE LUGS
DP	POWER DISTRIBUTION PANEL
DWG	DRAWING
EF	EXHAUST FAN
EG	EQUIPMENT GROUND
ELEC	ELECTRIC/ELECTRONIC
EMERG	EMERGENCY
EMT	ELECTRICAL METALLIC TUBING
EO	ELECTRICALLY OPERATED
F	FUSE
FA	FIRE ALARM
FB	FLOOR BOX
FDR	FEEDER
FL	FLOOR
FLEX	FLEXIBLE
FTS	FEED THRU BUS
G	GROUND
GRND	GROUND
HP	HORSEPOWER
HCA	HAND-OFF AUTOMATIC
JB	JUNCTION BOX
KV	KILOVOLTS
KVA	KILOVOLTS-AMPERES
KVAR	KILOVOLTS-AMPERES-REACTIVE
KW	KILOWATTS
KWH	KILOWATT-HOURS
LA	LIGHTNING ARRESTOR
LP	LIGHTING PANELBOARD
MAX	MAXIMUM
MCS	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MECH	MECHANICAL
MH	MANHOLE
MIN	MINIMUM
MISC	MISCELLANEOUS
MO	MAIN LUGS ONLY
MTD	MOUNTED
MTG	MOUNTING
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NF	NON-FUSED
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NO	NUMBER
NTS	NOT TO SCALE
OC	ON CENTER
OLS	OVERLOADS
P	POLE
PS	PUSH BUTTON
PHØ	PHASE
PT	POTENTIAL TRANSFORMER
RCLP	REMOTE CONTROL LIGHTING PANEL
RCP	RECEPTACLE
RF	RETURN FAN
RP	RECEPTACLE PANELBOARD
RSC	RIGID STEEL CONDUIT
SCHED	SCHEDULE
SF	SUPPLY FAN
ST	SHUNT TRIP
SW	SWITCH
SWBD	SWITCHBOARD
TB	TERMINAL BLOCK
TYP	TYPICAL
UN	UNLESS OTHERWISE NOTED
V	VOLTS
W	WIRE

ELECTRICAL LEGEND & SYMBOLS

SUBSCRIPTS FOR LIGHTING FIXTURES INDICATE THE FOLLOWING: U.O.N.
NL - NIGHT LIGHT, PANEL SWITCHED, U.O.N.

	DOWNLIGHT TYPE LIGHTING FIXTURE - TYPE AS INDICATED
	WALL MOUNTED FIXTURE - TYPE AS INDICATED
	FLUORESCENT LIGHTING FIXTURE - TYPE AS INDICATED
	POLE MOUNTED LIGHTING FIXTURE - TYPE AS INDICATED
	TRACK LIGHTING FIXTURE
	EMERGENCY BATTERY PACK WALL LIGHTING FIXTURE - TYPE AS INDICATED
	SHADING INDICATES EMERGENCY FIXTURE CONNECTED TO BATTERY INVERTER OR GENERATOR. CONNECT TO UNSWITCHED SOURCE IN ADDITION TO SWITCHING INDICATED
	EXIT LIGHT - WALL/CEILING MOUNTED. DIRECTIONAL ARROWS AS INDICATED. SHADING INDICATES ILLUMINATED FACE. CONNECT TO UNSWITCHED BRANCH CIRCUIT INDICATED

POWER DISTRIBUTION

	POWER DISTRIBUTION PANELBOARD - 480Y/277V, 3PH, 4W & GRD, U.O.N.
	POWER DISTRIBUTION PANELBOARD - 208Y/120V, 3PH, 4W & GRD, U.O.N.
	BRANCH CIRCUIT PANELBOARD - 208Y/120V OR 480Y/277V, 3PH, 4W & GRD, U.O.N. (FLUSH/SURFACE)
	TERMINAL CABINET - TYPE AS NOTED ON DRAWINGS (FLUSH/SURFACE)
	TRANSFORMER - TYPE AND RATING AS INDICATED. NL INDICATES NON-LEAK TYPE
	MOTOR CONTROL CENTER
	AUTOMATIC TRANSFER SWITCH
	WORKING CLEARANCE ABOUT ELECTRICAL EQUIPMENT
	UNDERGROUND CONDUIT/DUCTBANK
	FEEDER BUSWAY
	PLUG-IN BUSWAY
	GROUND CABLE, SIZE AS INDICATED
	GROUND BUS
	CONDUIT TURNED UP
	CONDUIT TURNED DOWN
	ELECTRIC MANHOLE
	HOME RUN TO PANEL WITH CIRCUIT NUMBER(S) AS INDICATED
	GROUND WIRE
	PHASE WIRE
	NEUTRAL WIRE
	GROUND ROD
	MOTOR - "H" INDICATES HORSEPOWER
	DISCONNECT SWITCH, NON-FUSED, NUMBER OF POLES AS REQUIRED FOR APPLICATION, PROVIDE SWITCH AMPACITY AS INDICATED
	DISCONNECT SWITCH, FUSED, NUMBER OF POLES AS REQUIRED FOR APPLICATION, PROVIDE SWITCH AMPACITY AS INDICATED
	COMBINATION MOTOR STARTER
	VARIABLE FREQUENCY DRIVE
	MOTOR RATED SWITCH (200V SINGLE PHASE, HORSEPOWER RATED TOGGLE SWITCH)
	CAPACITOR - WHERE "P" INDICATES PVAR SIZE
	EMERGENCY SHUTOFF PUSHBUTTON
	PUSH BUTTON CONTROL STATION

WIRING DEVICES

	F - FLUSH IN FLOOR
	GFCI - GROUND FAULT CIRCUIT INTERRUPTER
	H - HORIZONTALLY MOUNTED
	IG - ISOLATED GROUND
	L - LOCKING TYPE
	TP - TAMPER RESISTANT
	S - SURFACE MOUNTED
	WP - WEATHERPROOF
	X - MOUNTED IN EXISTING OUTLET BOX
	120V 20A (WALL/2" ABOVE BACKSPLASH OR COUNTERTOP TO BOTTOM) SIMPLEX RECEPTACLE, 2 POLE, 3 WIRE (NEMA 5-20R)
	120V 20A (WALL/2" ABOVE BACKSPLASH OR COUNTERTOP TO BOTTOM) DUPLEX RECEPTACLE, 2 POLE, 3 WIRE (NEMA 5-20R)
	120V 20A (WALL/2" ABOVE BACKSPLASH OR COUNTERTOP TO BOTTOM) DOUBLE DUPLEX (QUADRAPLEX) RECEPTACLE, 2 POLE, 3 WIRE (NEMA 5-20R)
	120V 20A (CEILING MOUNTED) DUPLEX RECEPTACLE, 2 POLE, 3 WIRE (NEMA 5-20R)
	120V 20A (WALL/2" ABOVE BACKSPLASH OR COUNTERTOP TO BOTTOM) EMERGENCY DUPLEX RECEPTACLE, 2 POLE, 3 WIRE (NEMA 5-20R)
	120V 20A (WALL/2" ABOVE BACKSPLASH OR COUNTERTOP TO BOTTOM) EMERGENCY DUPLEX RECEPTACLE, 2 POLE, 3 WIRE (NEMA 5-20R)
	SPECIAL RECEPTACLE - NEMA CONFIGURATION AS INDICATED ON DRAWING
	JUNCTION BOX (RECESSED/SURFACE)
	DIRECT CONNECTION TO EQUIPMENT
	PULL BOX - PROVIDE PULLBOXES INDICATED AS A MINIMUM - PROVIDE ADDITIONAL PULLBOXES, SIZED PER NEC, AS REQUIRED
	FLUSH JUNCTION BOX WITH FURNITURE FEED ADAPTING CONNECTOR MOUNTED AT 6" AFF
	SURFACE MOUNTED RACEWAY WITH RECEPTACLES IN LOCATIONS INDICATED
	WIREWAY - WALL MOUNTED U.O.N.
	FLOOR BOX
	SINGLE POLE SWITCH
	THREE-WAY SWITCH
	FOUR-WAY SWITCH
	SINGLE POLE SWITCH W/ PILOT LIGHT
	THREE-WAY SWITCH WITH PILOT LIGHT
	KEY OPERATED SINGLE POLE SWITCH
	KEY OPERATED THREE-WAY SWITCH
	WALL MOUNTED, DUAL TECHNOLOGY OCCUPANCY SENSOR WITH (1) MANUAL OVERRIDE LIGHT SWITCH, MANUAL ON/AUTOMATIC OFF OPERATION
	WALL MOUNTED, DUAL TECHNOLOGY OCCUPANCY SENSOR WITH (2) MANUAL OVERRIDE LIGHT SWITCHES, MANUAL ON/AUTOMATIC OFF OPERATION
	CEILING MOUNTED, DUAL TECHNOLOGY OCCUPANCY SENSOR WITH TWO RELAYS, DISTRIBUTION COVERAGE AS REQUIRED FOR SPACES 300'
	CEILING MOUNTED, DUAL TECHNOLOGY OCCUPANCY SENSOR, TWO-WAY DESIGN FOR CORRIDOR DISTRIBUTION

FIRE ALARM SYSTEM

	FIRE ALARM CONTROL PANEL (FLUSH/SURFACE)
	REMOTE FIRE ALARM CONTROL PANEL (FLUSH/SURFACE)
	FIRE ALARM ANNUNCIATOR PANEL (FLUSH/SURFACE)
	MANUAL PULLSTATION
	SPEAKER
	SPEAKER/STROBE
	HORN
	HORN/STROBE
	VISUAL STROBE
	BELL WITH VISUAL INDICATOR
	SMOKE DETECTOR
	HEAT DETECTOR
	DUCT DETECTOR - SUPPLY DUCT
	DUCT DETECTOR - RETURN DUCT
	DOOR HOLD RELEASE DEVICE
	ADDRESSABLE RELAY
	SPRINKLER SYSTEM TAMPER SWITCH
	SPRINKLER SYSTEM FLOW SWITCH
	POST INDICATOR VALVE

(NOTES APPLY TO ALL ELECTRICAL DRAWINGS)

GENERAL NOTES

#	NOTES
A	CONNECT ALL LIGHTING FIXTURES WITHIN ROOM TO INDICATED SWITCH AND BRANCH CIRCUIT, U.O.N.
B	WHERE MULTIPLE SWITCHES, RECEPTACLES, AND OTHER OUTLETS (EXCEPT PHONES) ARE INDICATED, PROVIDE MULTI-CONDUCTOR OUTLET BOXES WITH GANG BARRIERS AND A COMMON FACEPLATE FOR SIMILAR DEVICES
C	WHERE EXIT SIGNS ARE INDICATED ABOVE DOOR, MOUNT AS FOLLOWS: CENTER THE EXIT SIGN BETWEEN TOP OF DOOR FRAME AND CEILING. IF INSTALLED BETWEEN TOP OF DOOR FRAME AND CEILING IS 24 INCHES OR LESS, OTHERWISE, MOUNT BOTTOM OF EXIT SIGN 6 INCHES FROM TOP OF DOOR FRAME. MOUNT OTHER WALL MOUNTED EXIT SIGNS IN THE SAME AREA AT THE SAME HEIGHT
D	WHERE DIFFERENT RECESSED ELECTRICAL DEVICES WITH THE SAME MOUNTING HEIGHTS ARE INDICATED, SEE BY SIZE, MOUNT THE DEVICES SO THAT THERE IS FOUR INCHES BETWEEN ADJACENT VERTICAL EDGES
E	WHERE ELECTRICAL DEVICES WITH DIFFERENT MOUNTING HEIGHTS ARE LOCATED IN THE SAME AREA, ALIGN DEVICES VERTICALLY THROUGH THEIR CENTERLINES
F	INSTALL SEPARATE INDEPENDENT NEUTRAL CONDUCTORS FOR ALL 120V AND 277V CIRCUITS. DO NOT SHARE NEUTRALS
G	ALL EXIT FIXTURES AND FIXTURES INDICATED WITH "NL" SHALL BE UNSWITCHED
H	INSTALL NO MORE THAN THREE PHASE CONDUCTORS (PLUS NEUTRALS AND GROUND) PER CONDUIT UNLESS 120V-15 NEC IS FOLLOWED
I	NUMBER OF WIRES INDICATED ON DRAWINGS, IN PANEL SCHEDULES AND CIRCUIT SIZING SCHEDULES APPLIES TO CURRENT CARRYING CONDUCTORS INCLUDING NEUTRALS. IN ADDITION TO THE NUMBER OF WIRES INDICATED, PROVIDE AN EQUIPMENT GROUNDING CONDUCTOR SIZED AS SCHEDULED OR SIZED BY NEC 250.
J	UNLESS OTHERWISE NOTED, PROVIDE FEEDERS AND BRANCH CIRCUITS WHICH HAVE AN AMPACITY EQUAL TO OR GREATER THAN THE CIRCUIT OVERCURRENT PROTECTIVE DEVICE RATING SERVING THE CIRCUIT. REFER TO CIRCUIT SIZING SCHEDULE FOR SIZES OF FEEDERS AND BRANCH CIRCUITS
K	COORDINATE LOCATION OF CEILING MOUNTED FIRE ALARM DEVICES WITH OTHER EQUIPMENT TO AVOID INTERFERENCE. LOCATE FIRE ALARM DEVICES AS NEAR TO LOCATION INDICATED WHILE AVOIDING INTERFERENCES
L	MAKE FINAL CONNECTION BETWEEN DISCONNECT AND EQUIPMENT BEING SERVED BY FEEDER OR BRANCH CIRCUIT
M	DIVISION 26 CONTRACTOR SHALL REFER TO LIFE SAFETY PLAN FOR FIRE RATING REQUIREMENTS. DIVISION 26 CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING FIRE-RATED DEVICES/SEALS AS SHOWN ON ELECTRICAL DRAWINGS AND AS REQUIRED BASED ON LIFE SAFETY PLAN INFORMATION
N	PER NEC ARTICLE 110.26(A) AND 110.26(F), THE DEDICATED ELECTRICAL SPACE INCLUDES THE SPACE DEFINED BY EXTENDING THE FOOTPRINT OF THE ELECTRICAL EQUIPMENT (INCLUDING BUT NOT LIMITED TO SWITCHBOARDS, PANELBOARDS, TRANSFORMERS, MOTOR CONTROLLERS) FROM THE FLOOR TO A HEIGHT OF 8' 0" ABOVE THE HEIGHT OF THE EQUIPMENT OR TO THE STRUCTURAL CEILING, WHICHEVER IS LOWER. THE DEDICATED ELECTRICAL SPACE MUST BE CLEAR OF ANY PIPING, DUCTS, LIQUID PROTECTION APPARATUS, OR EQUIPMENT FOREIGN TO THE ELECTRICAL INSTALLATION. PLUMBING, HEATING, VENTILATION, AND AIR-CONDITIONING PIPING, DUCTS, AND EQUIPMENT MUST BE INSTALLED OUTSIDE THE WIDTH AND DEPTH ZONE. CONTRACTOR SHALL MAKE SURE NO PIPING OR DUCT WORK IS INSTALLED ABOVE THE ELECTRICAL EQUIPMENT. COORDINATE THESE REQUIREMENTS WITH ALL OTHER TRADES PRIOR TO INSTALLATION
O	CONTRACT DOCUMENTS CONSISTS OF BOTH A PROJECT MANUAL AND DRAWINGS. BOTH ARE MEANT TO BE COMPLEMENTARY. NOTHING APPEARING ON EITHER MUST BE EXECUTED THE SAME AS IF SHOWN ON BOTH.

LIGHTING CONTROLS

LABEL	MOUNTING	DIMMING TYPE	BUTTONS	SENSOR TYPE	COVERAGE AREA	CONTROL OPTIONS
O1	WALL	N/A	N/A	N/A	N/A	MANUAL SLIDE DIMMER
O2	CEILING	N/A	N/A	DUAL TECH	1000 SQ. FT.	AUTO ON / AUTO OFF
O3	CEILING	N/A	N/A	DUAL TECH	2000 SQ. FT.	AUTO ON / AUTO OFF
O4	CEILING	N/A	N/A	DUAL TECH	2000 SQ. FT. / CORRIDOR COVERAGE	AUTO ON / AUTO OFF
O5	WALL	N/A	1-ON/OFF	DUAL TECH	900 SQ. FT. MINIMUM	MANUAL ON / AUTO OR MANUAL OFF

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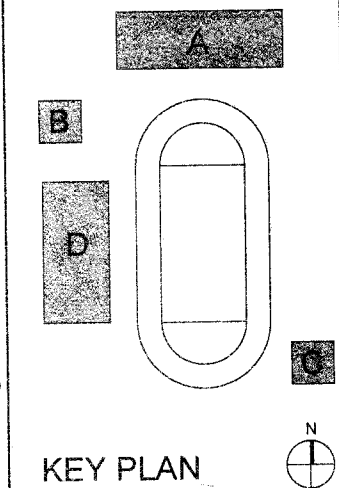
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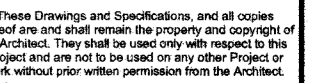


LC EXTERIOR
FACILITY
UPGRADES - BP2

SYMBOLS &
ABBREVIATIONS

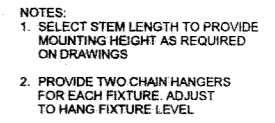
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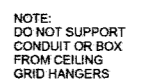
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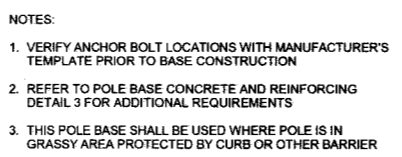
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1E CHAIN MOUNTED INSTALLATION

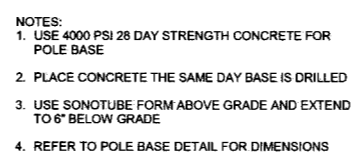
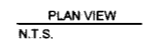


1C RECESSED LIGHTING INSTALLATION
NOT TO SCALE

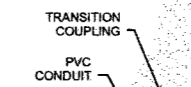


DIMENSIONS		
POLE HEIGHT	L	D
12'-0"	4'-6"	1'-6"
20'-0"	5'-0"	2'-0"
30'-0"	6'-0"	2'-6"
40'-0"	7'-0"	3'-0"

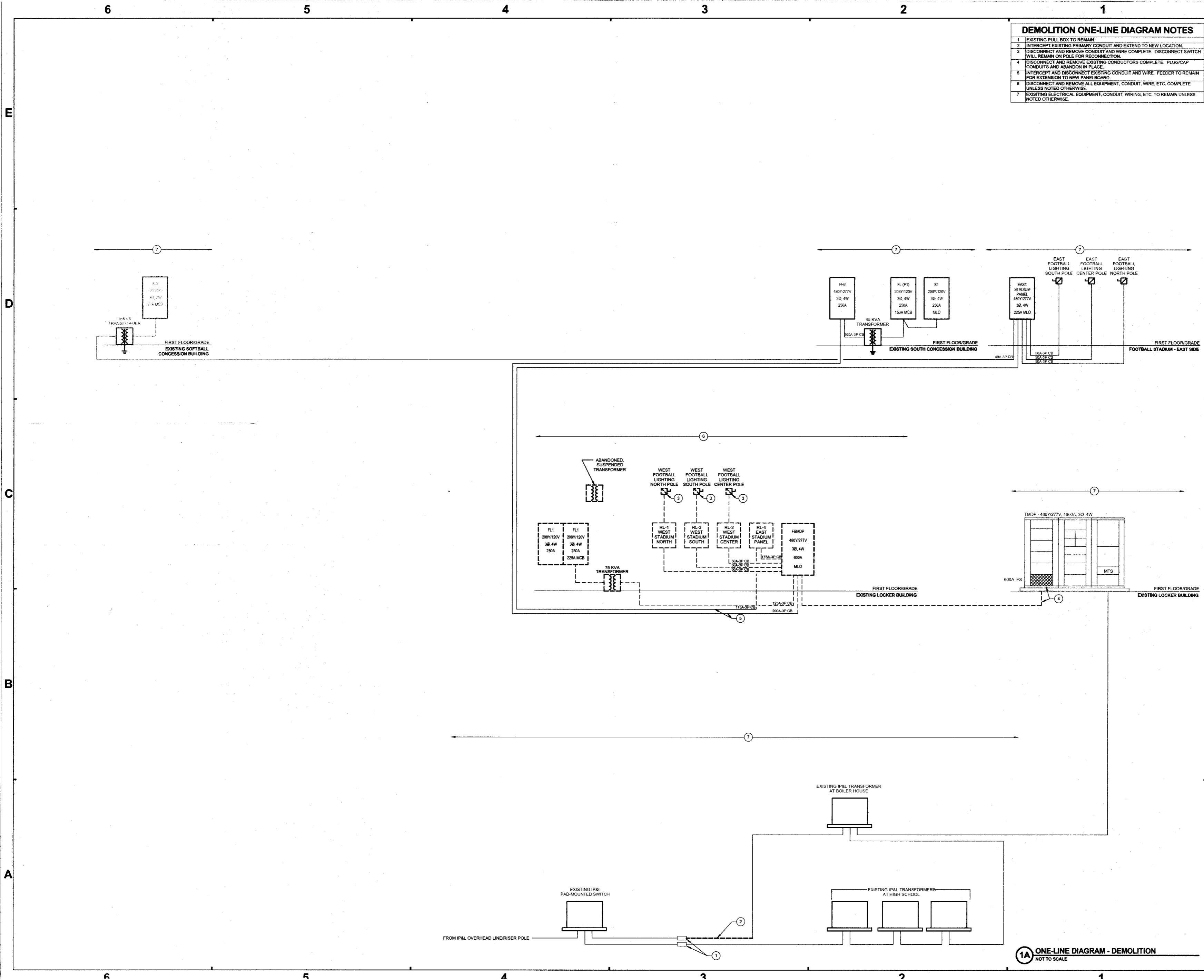
4A POLE BASE - 6"
NOT TO SCALE



3A POLE BASE CONCRETE AND REINFORCING DETAIL
NOT TO SCALE



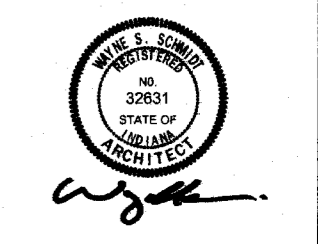
1A CONDUIT STUB-UP DETAIL
NOT TO SCALE



- DEMOLITION ONE-LINE DIAGRAM NOTES**
1. EXISTING PULL BOX TO REMAIN.
 2. INTERCEPT EXISTING PRIMARY CONDUIT AND EXTEND TO NEW LOCATION.
 3. DISCONNECT AND REMOVE CONDUIT AND WIRE COMPLETE. DISCONNECT SWITCH WILL REMAIN ON POLE FOR RECONNECTION.
 4. DISCONNECT AND REMOVE EXISTING CONDUCTORS COMPLETE. PLUG/CAP CONDUITS AND ABANDON IN PLACE.
 5. INTERCEPT AND DISCONNECT EXISTING CONDUIT AND WIRE. FEEDER TO REMAIN FOR EXTENSION TO NEW PANELBOARD.
 6. DISCONNECT AND REMOVE ALL EQUIPMENT, CONDUIT, WIRE, ETC. COMPLETE UNLESS NOTED OTHERWISE.
 7. EXISTING ELECTRICAL EQUIPMENT, CONDUIT, WIRING, ETC. TO REMAIN UNLESS NOTED OTHERWISE.

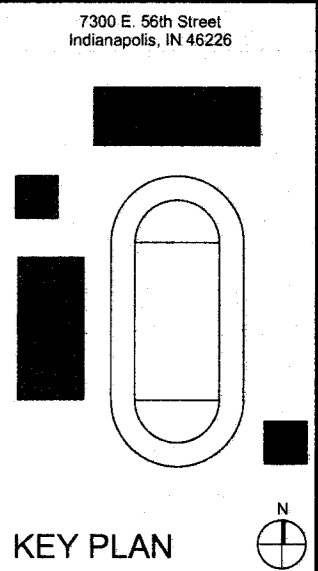
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LC EXTERIOR FACILITY UPGRADES - BP2

ONE-LINE DIAGRAM - DEMOLITION
 E-601

1A ONE-LINE DIAGRAM - DEMOLITION
 NOT TO SCALE

6

5

4

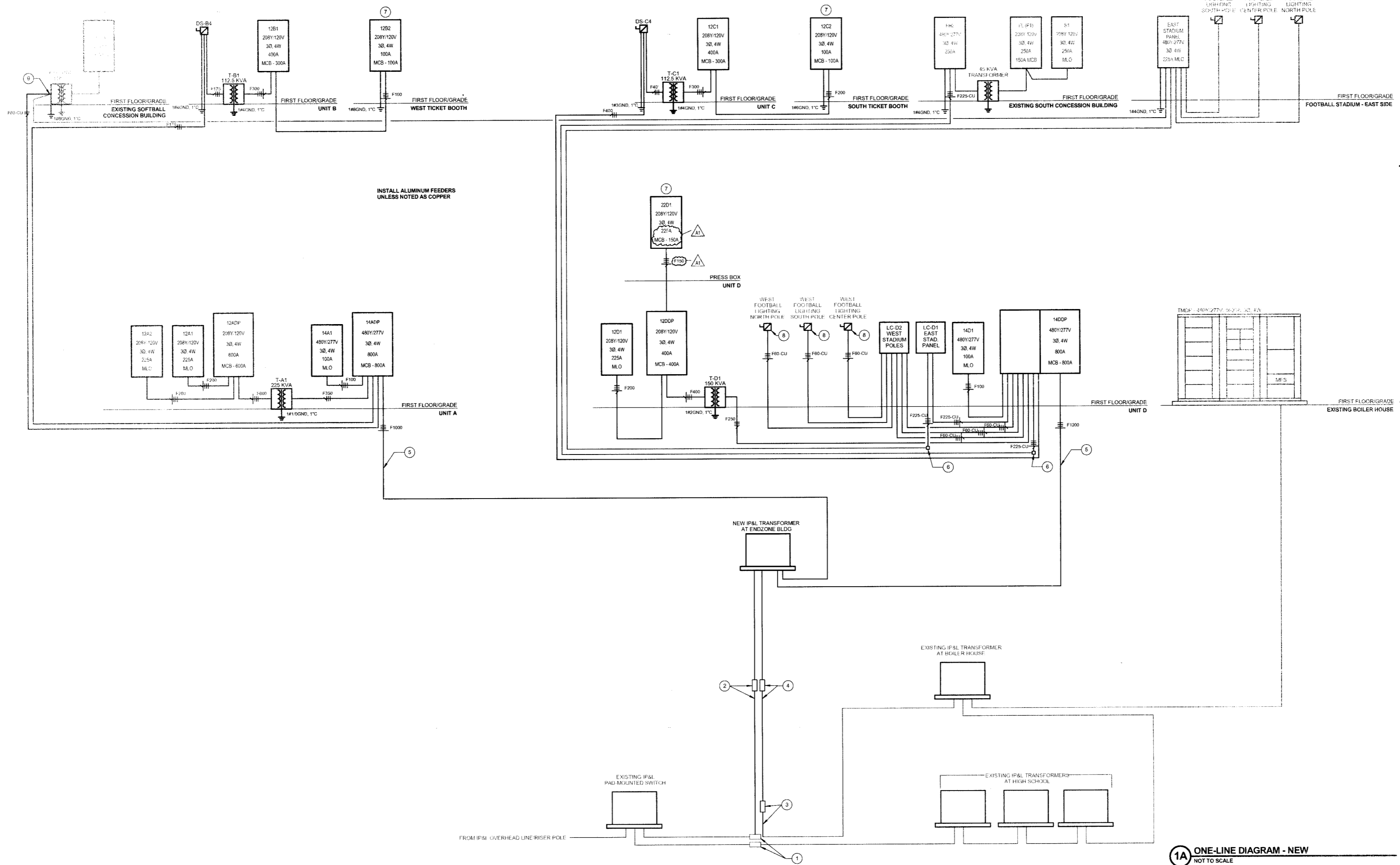
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2

1

FEEDER & BRANCH CIRCUIT SCHEDULE (ALUMINUM)					FEEDER & BRANCH CIRCUIT SCHEDULE (COPPER)				
FEEDER/BRANCH CIRCUIT LABEL	PHASE & EQUIP/SERV. NEUTRAL	CONDUCTOR SIZE PER CONDUIT			FEEDER/BRANCH CIRCUIT LABEL	PHASE & EQUIP/SERV. NEUTRAL	CONDUCTOR SIZE PER CONDUIT		
		3P, 1G	3P, 1N, 1G	3P, 2N, 1G			1P, 1N, 1G	3P, 1G	3P, 1N, 1G
F100	10	6	1-1/2"	2"	F20	10	12	3/4"	3/4"
F110	10	4	1-1/2"	2"	F30	10	10	3/4"	3/4"
F125	20	4	1-1/2"	2"	F40	8	10	3/4"	3/4"
F150	30	4	2"	2-1/2"	F50	8	10	1"	1"
F175	40	4	2"	2-1/2"	F60	4	10	1"	1-1/4"
F200	250	4	2"	2-1/2"	F70	4	8	1"	1-1/4"
F225	300	2	2-1/2"	3"	F80	3	8	1"	1-1/4"
F250	350	2	2-1/2"	3"	F90	2	8	1"	1-1/4"
F300	500	2	3"	3-1/2"	F100	1	8	1-1/4"	1-1/2"
F350	40	1	(2) 2-1/2"	(2) 2-1/2"	F110	10	6	1-1/4"	1-1/2"
F400	250	1	(2) 2-1/2"	(2) 2-1/2"	F125	10	6	1-1/4"	1-1/2"
F450	300	10	(2) 2-1/2"	(2) 3"	F150	10	6	1-1/4"	1-1/2"
F500	350	10	(2) 2-1/2"	(2) 3"	F175	20	6	1-1/2"	2"
F600	500	20	(2) 3"	(2) 3-1/2"	F200	30	6	1-1/2"	2"
F700	350	30	(3) 2-1/2"	(3) 3"	F225	40	4	2"	2-1/2"
F800	500	30	(3) 3"	(3) 3-1/2"	F250	250	4	2"	2-1/2"
F900	500	40	(3) 3"	(3) 3-1/2"	F300	350	4	2"	2-1/2"
F1000	350	45	(4) 2-1/2"	(4) 3-1/2"	F350	500	3	2-1/2"	3"
F1200	500	250	(4) 3"	(4) 3-1/2"	F400	30	3	(2) 1-1/2"	(2) 2-1/2"
F1600	500	350	(6) 3"	(6) 3-1/2"	F450	40	3	(2) 2"	(2) 3"
F2000	500	400	(7) 3"	(7) 3-1/2"	F500	250	2	(2) 2-1/2"	(2) 3"
F2500	500	600	(9) 3-1/2"	(9) 4"	F600	350	1	(2) 2-1/2"	(2) 3-1/2"
F3000	500	800	(10) 3-1/2"	(10) 4"	F700	500	10	(2) 2-1/2"	(2) 4"

ONE-LINE DIAGRAM NOTES	
1	EXISTING PULL BOX TO REMAIN
2	INSTALL (1) 4" CONDUIT FROM EXISTING PULL BOX TO NEW PULL BOX FOR THE INSTALLATION OF NEW PRIMARY
3	INTERCEPT AND EXTEND EXISTING PRIMARY CONDUIT WITH (1) 4" CONDUIT TO NEW PULL BOX
4	INSTALL (1) 4" CONDUIT FROM NEW PULL BOX TO NEW PULL BOX FOR THE INSTALLATION OF NEW PRIMARY
5	INSTALL SECONDARY CONDUIT AND WIRE
6	BASE BID: PROVIDE A GRADE MOUNTED JUNCTION BOX AND EXTEND EXISTING FEEDER TO NEW PANEL. ALTERNATE BID: REMOVE EXISTING FEEDER WIRE, MODIFY/EXTEND CONDUIT TO NEW PANEL LOCATION AND INSTALL NEW WIRE.
7	PANELBOARD PROVIDED AND INSTALLED IN PRE-MANUFACTURED BUILDING BY THE MANUFACTURER. CONNECT COMPLETE TO FEEDER INDICATED. COORDINATE LOCATION WITH MANUFACTURER.
8	CONNECT NEW CONDUIT AND WIRING TO EXISTING DISCONNECT SWITCH.
9	BASE BID: EXISTING FEEDER REMAINS FROM EAST STADIUM PANEL. ALTERNATE BID: DISCONNECT AND REMOVE FEEDER FROM EAST STADIUM PANEL AND REFEED EXISTING TRANSFORMER FROM 1440P.



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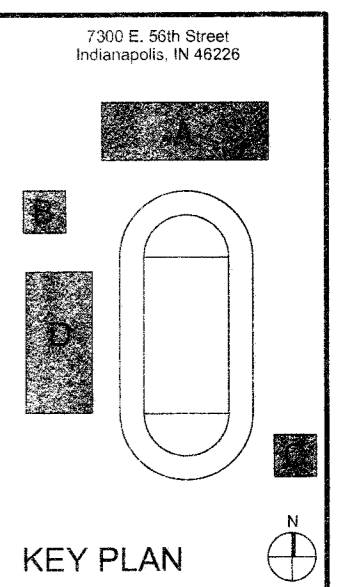


ASSOCIATES

415 Massachusetts Avenue
Indianapolis, Indiana 46204
www.schmidt-arch.comProject No. 2015-121.LCS
Project Date 04-18-2016
Prepared JAR

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#	Revision	Date
A1	ADDENDUM NO. 1	04-29-2016

MSD OF
LAWRENCE
TOWNSHIPLC EXTERIOR
FACILITY
UPGRADES - BP2

ONE-LINE DIAGRAM - NEW

E-602

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E

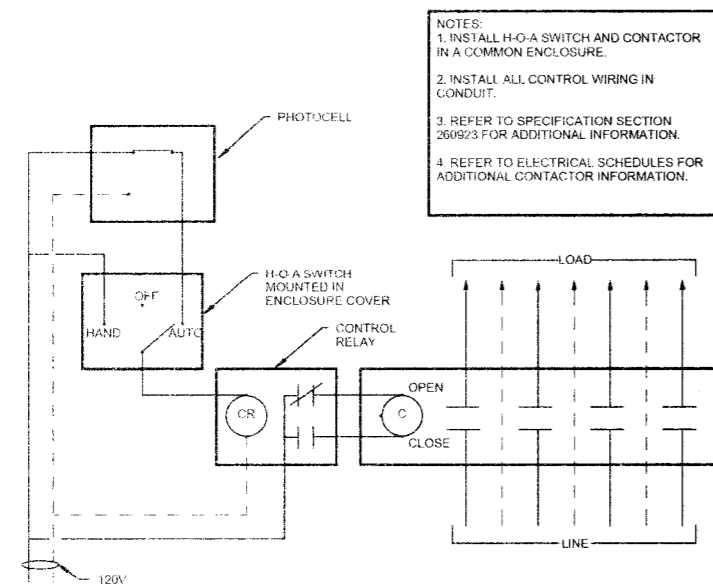
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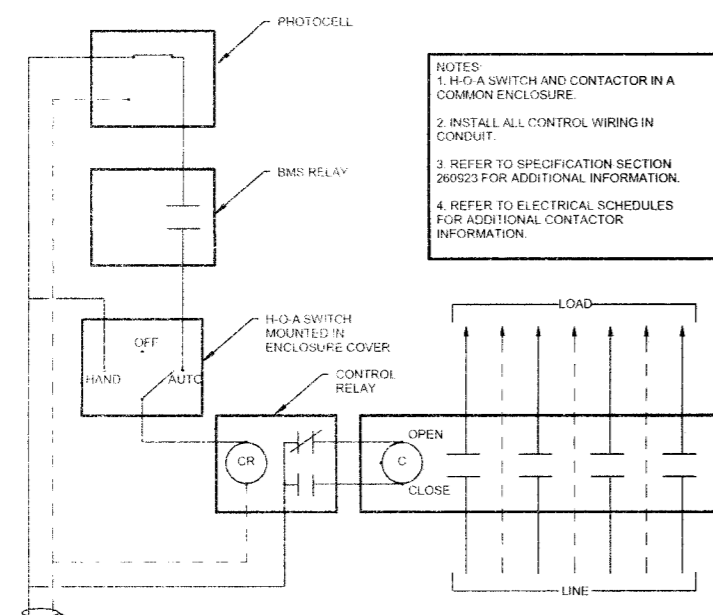
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A

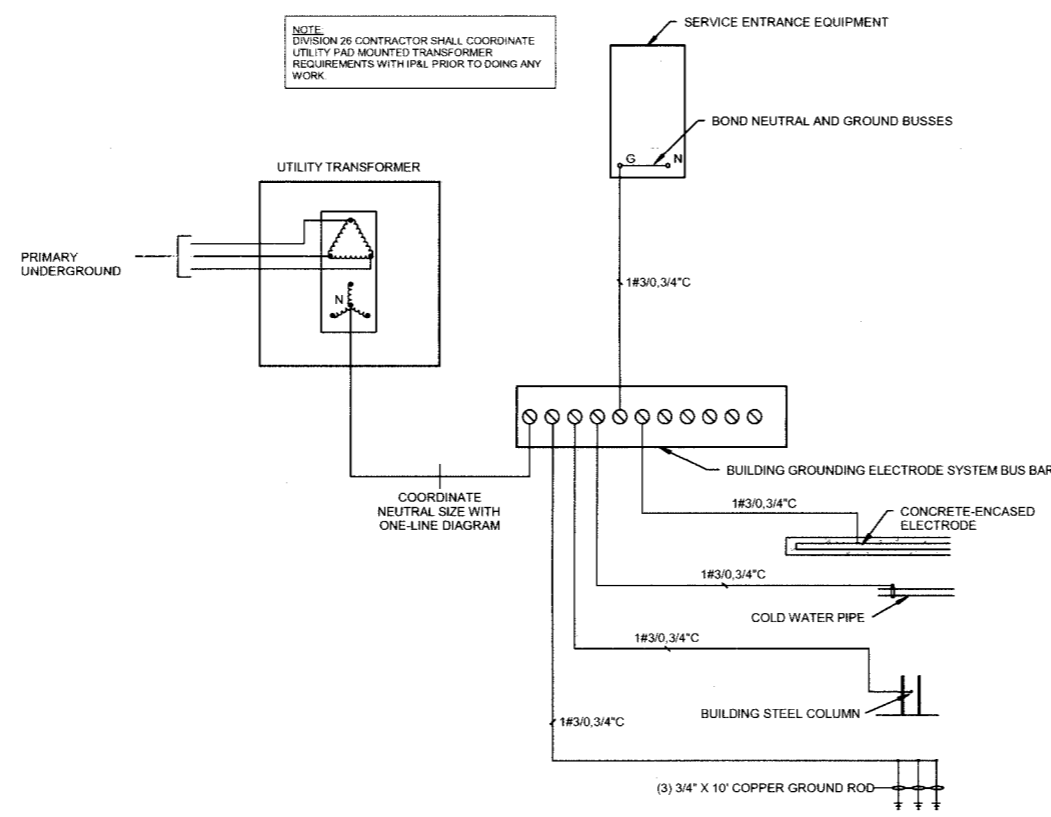
5B EXTERIOR LIGHTING CONTROL SYSTEM SCHEMATIC (PHOTOCELL)
NOT TO SCALE



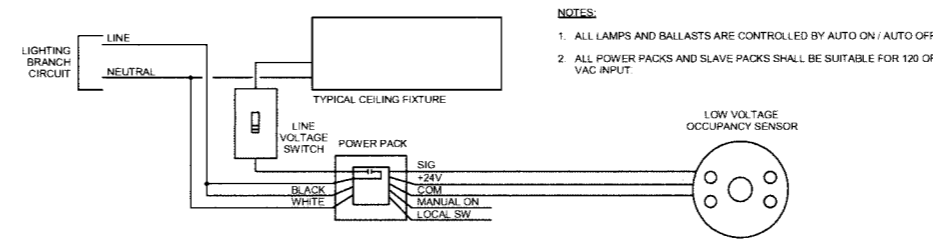
5A EXTERIOR LIGHTING CONTROL SYSTEM SCHEMATIC (BMS/PHOTOCELL)
NOT TO SCALE



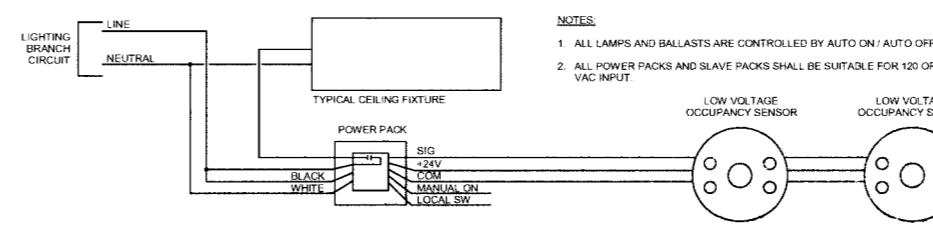
3A SERVICE ENTRANCE GROUNDING AND BONDING DIAGRAM - UNITS A & D
NOT TO SCALE



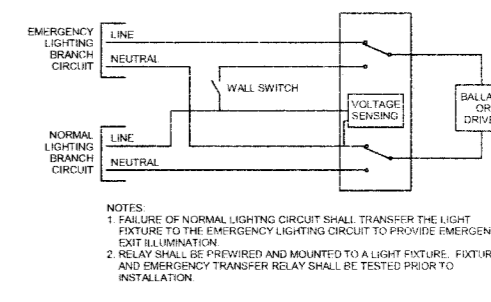
2D TYPICAL NON-CORRIDOR LIGHTING CONTROL
NOT TO SCALE



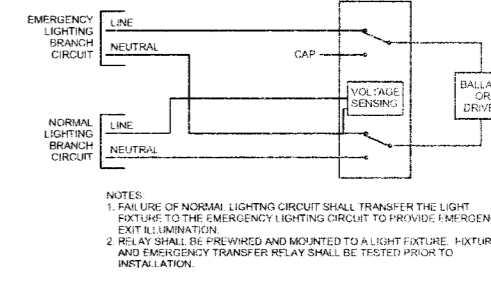
2C TYPICAL CORRIDOR LIGHTING CONTROL
NOT TO SCALE



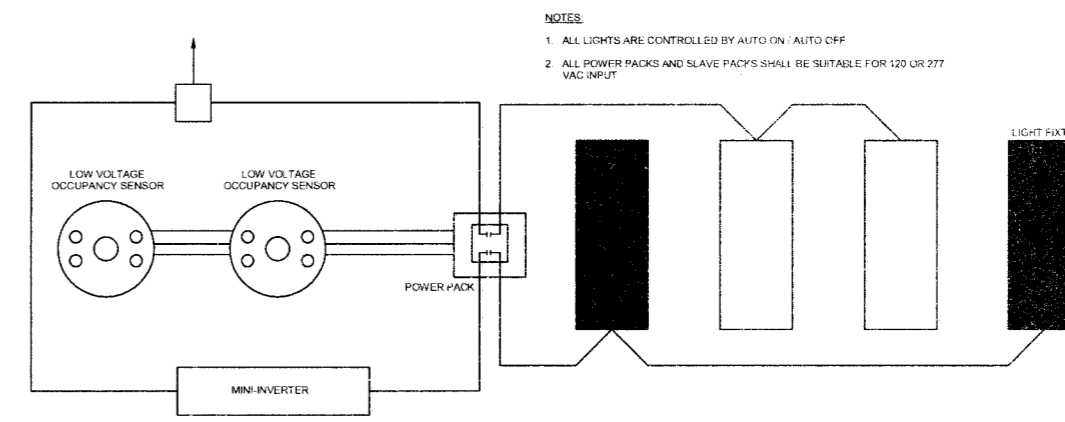
1D EMERGENCY SHUNT RELAY (GTD)
NOT TO SCALE



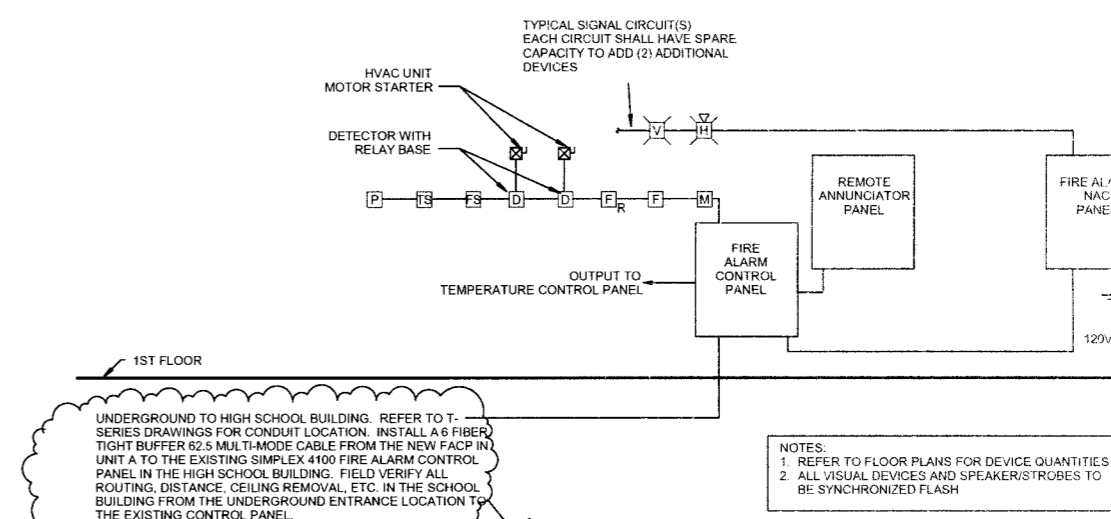
1C NORMALLY OFF EMERGENCY SHUNT RELAY (GTD)
NOT TO SCALE



1B MINI-INVERTER DETAIL
NOT TO SCALE



1A FIRE ALARM SCHEMATIC - UNIT A
NOT TO SCALE

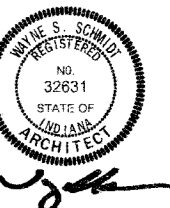


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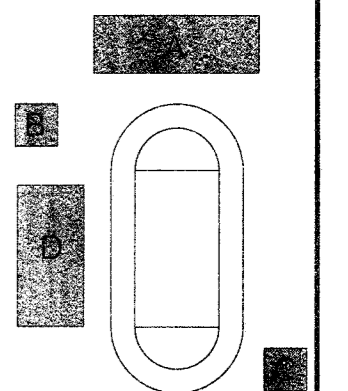
Project No. 2015-121 LCS
Project Date 04.18.2016
Produced SACMUAR



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Revision Date
A3 ADDENDUM NO. 3 05.11.2016

7300 E. 56th Street
Indianapolis, IN 46226



KEY PLAN

MSD OF
LAWRENCE
TOWNSHIP



LC EXTERIOR
FACILITY
UPGRADES - BP2

SCHEMATICS

E-603

6

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4

3

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1

GENERAL LIGHT FIXTURE SCHEDULE NOTES

#	NOTES
A	FOR ALL FIXTURES, PROVIDE 3500 K COLOR TEMPERATURE.
B	REFER TO LIGHT FIXTURE SCHEDULE AND REFLECTED CEILING PLANS FOR MOUNTING REQUIREMENTS, CEILING TYPES, AND FINAL LOCATIONS. PROVIDE APPROPRIATE MOUNTING TRIM REQUIRED FOR CEILING TYPE.
C	PROVIDE FACTORY INSTALLED DISCONNECTS FOR ALL LINEAR FIXTURES.
D	PROVIDE VIBRATION DAMPERS FOR ALL ALUMINUM & STEEL POLES 20'-0" AND ABOVE.
E	PROVIDE SELF-DIAGNOSTICS AND SELF-TESTING FOR ALL LIFE SAFETY FIXTURES (EXIT FIXTURES, WALL PACKS, INVERTERS, ETC.).

TRANSFORMER SCHEDULE									
LABEL	LOCATION		KVA	PHASE	VOLTAGE			MOUNT	TYPE
	ROOM #	ROOM NAME			PRIMARY	SECONDARY	CONNECTION		
T-A1	S115	ELECTRICAL	225	3	480 V	208Y/120	DELTA	FLOOR	DRY 12ADP
T-B1	S143	MECH	112.5	3	480 V	208Y/120	DELTA	FLOOR	DRY 12B1
T-C1	S153	MECH	112.5	3	480 V	208Y/120	DELTA	FLOOR	DRY 12C1
T-D1	S153	ELECTRICAL	150	3	480 V	208Y/120	DELTA	FLOOR	DRY 12DDP

LIGHTING CONTACTOR									
LABEL	ROOM #	ROOM NAME	COIL VOLTAGE	AMPERAGE	CONTROL	ENCLOSURE	NUMBER OF CONTACTS	CIRCUIT(S) CONTROLLED	REMARKS
LC-A1	S115	ELECTRICAL	120 V	30 A	PHOTOCELL BMS	NEMA 1	2	14A1-1, 14A1-2	
LC-B1	S141	CUST	120 V	30 A	PHOTOCELL	NEMA 1	4	12B1-2	
LC-C1	S151	CUST	120 V	30 A	PHOTOCELL	NEMA 1	4	12C1-2	
LC-D1	S140	ELECTRICAL	120 V	270 A	ON/OFF PB	NEMA 1	4	14DDP (7, 8, 11)	
LC-D2	S163	ELECTRICAL	120 V	60 A	ON/OFF PB	NEMA 1	(4) 6A	14DDP (8, 10, 12)	LIGHTING CONTACTOR ENCLOSURE INCLUDES (3) CONTACTORS RATED AT 60A EACH. CONTROLLED WITH SINGLE HOA
LC-D3	S163	ELECTRICAL	120 V	30 A	PHOTOCELL	NEMA 1	6	14D1-1, 14D1-6, 7	

MINI-INVERTER SCHEDULE						
LABEL	DESCRIPTION	MOUNTING	VOLTAGE	PANEL	CIRCUIT #	OPTIONS
MI-A1	250W MINI INVERTER	WALL	277 V	14A1	1	LIGHTING CONTROL OVERRIDE FOR 0-10V DIMMING SYSTEM
MI-B1	250W MINI INVERTER	WALL	120 V	12B1	2	LIGHTING CONTROL OVERRIDE FOR 0-10V DIMMING SYSTEM
MI-C1	250W MINI INVERTER	WALL	120 V	12C1	2	LIGHTING CONTROL OVERRIDE FOR 0-10V DIMMING SYSTEM
MI-D1	250W MINI INVERTER	WALL	277 V	14D1	1	LIGHTING CONTROL OVERRIDE FOR 0-10V DIMMING SYSTEM
MI-D2	150W MINI INVERTER	WALL	277 V	14D1	4	LIGHTING CONTROL OVERRIDE FOR 0-10V DIMMING SYSTEM

DISCONNECT SWITCH SCHEDULE										
LABEL	ROOM #	SWITCH LOCATION	EQUIPMENT SERVED	VOLTAGE	AMPERAGE	POLES	FUSED	FUSE SIZE	NEMA ENCL	SOLID NEUTRAL
DS-A1	S106	UNIFORM STORAGE / LAUNDRY	DRYER	480 V	30 A	3	Yes	20 A	1	No
DS-A2	S106	UNIFORM STORAGE / LAUNDRY	WASHER	480 V	30 A	3	Yes	20 A	1	No
DS-A3			RTU-1	480 V	100 A	3	Yes	90 A	3R	No
DS-A4			RTU-2	480 V	30 A	3	Yes	30 A	3R	No
DS-A5			RTU-2	480 V	60 A	3	Yes	45 A	3R	No
DS-A6			CU-1a	480 V	60 A	3	Yes	40 A	3R	No
DS-A7			CU-1a	480 V	60 A	3	Yes	40 A	3R	No
DS-A8			CU-2/VRV-1-9/VRV-2-2	208 V	30 A	2	Yes	20 A	3R	No
DS-A9			CU-1/VRV-3-1	208 V	30 A	2	Yes	20 A	3R	No
DS-A10	S104	IT	VRV-3-1	208 V	30 A	2	No	No	1	No
DS-A11			CU-4/VRV-4-1	208 V	30 A	2	Yes	30 A	3R	No
DS-A12	S113	STORAGE	VRV-4-1	208 V	30 A	2	No	No	1	No
DS-A13	S114	PLUMBING	VRV-2-2	208 V	30 A	2	No	No	1	No
DS-A14	S115	ELECTRICAL	VRV-1-9	208 V	30 A	2	No	No	1	No
DS-B1	S142	MEN	PUH-1	208 V	30 A	3	No	No	1	No
DS-B2	S144	CONCESSION	PUH-2	208 V	30 A	3	No	No	1	No
DS-B3	S149	WOMEN	PUH-3	208 V	30 A	3	No	No	1	No
DS-B4	S143	MECH	T-B1	208 V	200 A	3	Yes	175 A	1	No
DS-B5	S143	MECH	WATER HEATER	208 V	60 A	3	Yes	40 A	1	No
DS-C1	S162	MEN	PUH	208 V	30 A	3	No	No	1	No
DS-C2	S154	CONCESSION	PUH	208 V	30 A	3	No	No	1	No
DS-C3	S160	WOMEN	PUH	208 V	30 A	3	No	No	1	No
DS-C4	S153	MECH	T-C1	208 V	200 A	3	Yes	175 A	1	No
DS-C5	S153	MECH	WATER HEATER	208 V	60 A	3	Yes	40 A	1	No
DS-D1	S162	ELEV MECH	ELEVATOR	480 V	100 A	3	Yes	75 A	1	Yes
DS-D2	S162	ELEV MECH	ELEVATOR LIGHTS	120 V	30 A	1	Yes	20 A	1	Yes
DS-D3	S162	ELEV MECH	FCU-1A	208 V	30 A	2	No	No	1	No
DS-D4			CU-1	208 V	30 A	2	Yes	20 A	1	No
DS-D5	S163	ELECTRICAL	FCU-1B	208 V	30 A	2	No	No	1	No

MOTOR CONTROLLER/STARTER/VFD SCHEDULE												
CONTROLLER LOCATION			EQUIPMENT SERVED	EQUIPMENT DATA				STARTER		DISCONNECT SWITCH		REMARKS
LABEL	ROOM #	ROOM NAME		VOLTAGE	PHASE	HP	FLA	TYPE	NEMA SIZE	TYPE	FUSE SIZE	
MS-B1	S141	CUST	EF-1	208 V	1	1.20	4.8 A	FVNR	1	FUSIBLE	8	
MS-B2	S143	MECH	CIRC PUMP	120 V	1	1.20	4.4 A	-	-	-	-	THERMAL HP-RATED TOGGLE SWITCH
MS-C1	S151	CUST	EF-1	208 V	3	1	4.8 A	FVNR	1	FUSIBLE	8	
MS-C2	S152	MECH	CIRC PUMP	120 V	1	1.20	4.4 A	-	-	-	-	THERMAL HP-RATED TOGGLE SWITCH

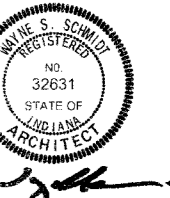
LIGHTING FIXTURES SCHEDULE							
FIXTURE	DESCRIPTION	VOLTAGE	LAMPS	MOUNTING	LENS/REFLECTOR	ACCEPTABLE MANUFACTURERS	FIXTURE
L1	4' LENSED LED STRIP LIGHT, 0-10V DIMMING, WIDE DISTRIBUTION	277 V	40W 4100 LUMENS LED	SURFACE MOUNTED TO DRYWALL CEILING	FULL FROST LENS	METALUX SNLED COLUMBIA LCL4 LITHONIA ZL1N HE WILLIAMS 7SL	L1
L2	4' LENSED LED STRIP LIGHT, 0-10V DIMMING, WIDE DISTRIBUTION	277 V	60W 6000 LUMENS LED	CHAIN SUSPENDED	FULL FROST LENS	METALUX SNLED COLUMBIA LCL4 LITHONIA ZL1N HE WILLIAMS 7SL	L2
L2E	4' LENSED LED STRIP LIGHT, 0-10V DIMMING, WIDE DISTRIBUTION	277 V	60W 6000 LUMENS LED	CHAIN SUSPENDED	FULL FROST LENS	METALUX SNLED COLUMBIA LCL4 LITHONIA ZL1N HE WILLIAMS 7SL	L2E
L3	2X2 LED STATIC TROFFER WITH FLUSH FLAT WHITE STEEL DOOR, 0-10V DIMMING	277 V	35W 3600 LUMENS LED	RECESSED IN GRID	RIBBED FROSTED ACRYLIC	METALUX 24C2 COLUMBIA RL42 PINNACLE LU22A HE WILLIAMS AT2	L3
L3E	2X2 LED STATIC TROFFER WITH FLUSH FLAT WHITE STEEL DOOR, 0-10V DIMMING	277 V	35W 3600 LUMENS LED	RECESSED IN GRID	RIBBED FROSTED ACRYLIC	METALUX 24C2 COLUMBIA RL42 PINNACLE LU22A HE WILLIAMS AT2	L3E
L4	2X4 LED STATIC TROFFER WITH FLUSH FLAT WHITE STEEL DOOR, 0-10V DIMMING	277 V	45W 5000 LUMENS LED	RECESSED IN GRID	RIBBED FROSTED ACRYLIC	METALUX 24C2 COLUMBIA RL42 PINNACLE LU24A HE WILLIAMS AT2	L4
L5	4' LENSED VAPORITITE INDUSTRIAL, 0-10V DIMMING, UL LISTED FOR WET LOCATIONS	277 V	40W 4000 LUMENS LED	SURFACE MOUNTED TO DRYWALL CEILING	FROSTED ACRYLIC	METALUX 4V72 COLUMBIA LXEM LITHONIA VAP HE WILLIAMS 96	L5
L5E	4' LENSED VAPORITITE INDUSTRIAL, 0-10V DIMMING, UL LISTED FOR WET LOCATIONS	277 V	40W 4000 LUMENS LED	SURFACE MOUNTED TO DRYWALL CEILING	FROSTED ACRYLIC	METALUX 4V72 COLUMBIA LXEM LITHONIA VAP HE WILLIAMS 96	L5E
L6	4' LENSED VAPORITITE INDUSTRIAL, 0-10V DIMMING, UL LISTED FOR WET LOCATIONS	277 V	60W 6000 LUMENS LED	SURFACE MOUNTED TO DRYWALL CEILING	FROSTED ACRYLIC	METALUX 4V72 COLUMBIA LXEM LITHONIA VAP HE WILLIAMS 96	L6
L7E	LED HIGH PERFORMANCE SCENE, DIE-CAST ALUMINUM HOUSING, 4300K, DARK BRONZE FINISH, ROUTE THROUGH MINI-INVERTER	277 V	17 7W 1067 LUMENS LED	WALL/SURFACE	REFLECTOR AND LENS SHALL PROVIDE WIDE UNIFORM ILLUMINATION	DUAL-LITE P2G1 PROVIDE AN ALLOWANCE OF \$200 PER FIXTURE FOR MATERIAL ONLY. ADD LABOR REQUIRED FOR INSTALLATION	L7E
L8E	EXTERIOR SURFACE MOUNTED EXTRUDED ALUMINUM LED FIXTURE, UL LISTED WET LOCATED, DARK BRONZE FINISH, INTEGRAL BATTERY INVERTER	277 V	35W 3500 LUMENS LED	WALL/SURFACE	PATTERN NO. 18, 0.156" PRISMATIC ACRYLIC	LUMINAR 4EL48 LED PROVIDE AN ALLOWANCE OF \$850 PER FIXTURE FOR MATERIAL ONLY. ADD LABOR REQUIRED FOR INSTALLATION	L8E
L9	6" DIAMETER ALUMINUM CYLINDRICAL SCENE, UP/DOWN LIGHTING, 14" SPREAD, 4000K, DARK BRONZE FINISH, UL LIST FOR WET LOCATIONS	277 V	(2) 30W 2000 LUMENS LED UP & DOWN	WALL/SURFACE	FROSTED ACRYLIC	CONTECH LIGHTING CYL LUMINAR LTA-31761 LUMENS SY602 LED FC LIGHTING FCG20	L9
L10	4' LENSED LED STRIP LIGHT, 0-10V DIMMING, WIDE DISTRIBUTION	120 V	40W 4100 LUMENS LED	SURFACE MOUNTED TO DRYWALL CEILING	FULL FROST LENS	METALUX SNLED COLUMBIA LCL4 LITHONIA ZL1N HE WILLIAMS 7SL	L10
L10E	4' LENSED LED STRIP LIGHT, 0-10V DIMMING, WIDE DISTRIBUTION	120 V	40W 4100 LUMENS LED	SURFACE MOUNTED TO DRYWALL CEILING	FULL FROST LENS	METALUX SNLED COLUMBIA LCL4 LITHONIA ZL1N HE WILLIAMS 7SL	L10E
L11	4' LENSED LED STRIP LIGHT, 0-10V DIMMING, WIDE DISTRIBUTION	120 V	55W 6000 LUMENS LED	SURFACE MOUNTED TO DRYWALL CEILING	FULL FROST LENS	METALUX SNLED COLUMBIA LCL4 LITHONIA ZL1N HE WILLIAMS 7SL	L11
L11E	4' LENSED LED STRIP LIGHT, 0-10V DIMMING, WIDE DISTRIBUTION	120 V	55W 6000 LUMENS LED	SURFACE MOUNTED TO DRYWALL CEILING	FULL FROST LENS	METALUX SNLED COLUMBIA LCL4 LITHONIA ZL1N HE WILLIAMS 7SL	L11E
L12E	LED HIGH PERFORMANCE SCENE, DIE-CAST ALUMINUM HOUSING, 4300K, DARK BRONZE FINISH, ROUTE THROUGH MINI-INVERTER	120 V	17 7W 1067 LUMENS LED	WALL/SURFACE	REFLECTOR AND LENS SHALL PROVIDE WIDE UNIFORM ILLUMINATION	DUAL-LITE P2G1 PROVIDE AN ALLOWANCE OF \$200 PER FIXTURE FOR MATERIAL ONLY. ADD LABOR REQUIRED FOR INSTALLATION	L12E
L13	12" W X 18" X 6" LED FLOOD LIGHT, DARK BRONZE FINISH, 4000K	120 V	110W 9300 LUMENS LED	TOP OF 24" ROUND POLE	FLOOD	HYDREL 8160 LED BEACON ALPHA GE LIGHTING EFNA	L13
L14	12" W X 18" X 6" LED FLOOD LIGHT, DARK BRONZE FINISH, 4000K	277 V	110W 9300 LUMENS LED	24" ARM MOUNTED TO WALL	FLOOD	HYDREL 8160 LED BEACON ALPHA GE LIGHTING EFNA	L14
L15E	4' LENSED LED STRIP LIGHT, 0-10V DIMMING, WIDE DISTRIBUTION	277 V	55W 6000 LUMENS LED	SURFACE MOUNTED TO WALL	FULL FROST LENS	METALUX SNLED COLUMBIA LCL4 LITHONIA ZL1N HE WILLIAMS 7SL	L15E
L16	2X4 LED STATIC TROFFER WITH FLUSH FLAT WHITE STEEL DOOR, 0-10V DIMMING	277 V	45W 5000 LUMENS LED	RECESSED IN DRYWALL	RIBBED FROSTED ACRYLIC	METALUX 24C2 COLUMBIA RL42A PINNACLE LU24A HE WILLIAMS AT2	L16
SL1	LED SITE FIXTURE, SINGLE-PIECE ALUMINUM HOUSING, ARM MOUNT, UL LISTED WET LOCATION, DARK BRONZE FINISH, POLE BASE COVER, 16" ABOVE FINISHED GRADE TO BOTTOM OF FIXTURE, ROUND STRAIGHT ALUMINUM POLE DESIGNED TO SUPPORT FIXTURES IN 100 MPH WINDS WITH 1.3 GUST FACTOR, PRIMARY FUSES, 4000K, 2 FIXTURES, 120' APART	480 V	160W 16,000 LUMENS LED PER FIXTURE HEAD	POLE MOUNTED CONCRETE BASE BY DIVISION 28	TYPE III DISTRIBUTION	GLEON GALLEON LED BEACON VIPER LED LITHONIA DSX2 LED GE LIGHTING EVOLVE LED	SL1
SL2	LED SITE FIXTURE, SINGLE-PIECE ALUMINUM HOUSING, ARM MOUNT, UL LISTED WET LOCATION, DARK BRONZE FINISH, POLE BASE COVER, 16" ABOVE FINISHED GRADE TO BOTTOM OF FIXTURE, ROUND STRAIGHT ALUMINUM POLE DESIGNED TO SUPPORT FIXTURES IN 100 MPH WINDS WITH 1.3 GUST FACTOR, PRIMARY FUSES, 4000K, 2 FIXTURES, 120' APART	480 V	160W 16,000 LUMENS LED PER FIXTURE HEAD	POLE MOUNTED CONCRETE BASE BY DIVISION 28	TYPE V SQUARE MEDIUM DISTRIBUTION	GLEON GALLEON LED BEACON VIPER LED LITHONIA DSX2 LED GE LIGHTING EVOLVE LED	SL2
SL3	LED SITE FIXTURE, SINGLE-PIECE ALUMINUM HOUSING, ARM MOUNT, UL LISTED WET LOCATION, DARK BRONZE FINISH, POLE BASE COVER, 16" ABOVE FINISHED GRADE TO BOTTOM OF FIXTURE, ROUND STRAIGHT ALUMINUM POLE DESIGNED TO SUPPORT FIXTURES IN 100 MPH WINDS WITH 1.3 GUST FACTOR, PRIMARY FUSES, 4000K, 2 FIXTURES, 120' APART	480 V	220W 21,000 LUMENS LED PER FIXTURE HEAD	POLE MOUNTED CONCRETE BASE BY DIVISION 26	TYPE IV WIDE DISTRIBUTION	GLEON GALLEON LED BEACON VIPER LED LITHONIA DSX2 LED GE LIGHTING EVOLVE LED	SL3
X1C	LED EXIT LIGHT, MATTE BLACK DIE-CAST ALUM. HOUSING, BRUSHED ALUM. SINGLE FACE, STENCIL FACE, RED LETTERS, SELF-POWERED, SELF-DIAGNOSTIC-SELF-TESTING MODULE, NICKEL CADMIUM BATTERY	277 V	LED	UNIVERSAL	AS REQ. TO PROVIDE EVEN ILLUMINATION W/O HOT SPOTS	SURE-LITES CX DUAL-LITE SE LITHONIA LITE EMERGH-LITE PRISTIGE DX8	X1C
X1W	LED EXIT LIGHT, MATTE BLACK DIE-CAST ALUM. HOUSING, BRUSHED ALUM. SINGLE FACE, STENCIL FACE, RED LETTERS, SELF-POWERED, SELF-DIAGNOSTIC-SELF-TESTING MODULE, NICKEL CADMIUM BATTERY	277 V	LED	UNIVERSAL	AS REQ. TO PROVIDE EVEN ILLUMINATION W/O HOT SPOTS	SURE-LITES CX DUAL-LITE SE LITHONIA LITE EMERGH-LITE PRISTIGE DX8	X1W

SCHMIDT



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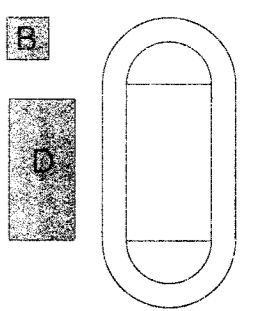
Project No. 2015-121 LCS
Project Date 04.18.2016
Prepared by SACM/JAR



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#	Revision	Date
A2	ADDENDUM NO. 2	05.06.2016

7300 E. 56th Street
Indianapolis, IN 46226



KEY PLAN

MSD OF
LAWRENCE
TOWNSHIP



LC EXTERIOR
FACILITY
UPGRADES - BP2

SCHEDULES

E-604

6 5 4 3 2 1

TELECOMMUNICATIONS DEFINITIONS AND ABBREVIATIONS

DEFINITIONS

ACCEPTANCE TEST - A TEST OR SET OF TESTS PERFORMED TO DEMONSTRATE SATISFACTORY COMPLETION OF A PREDETERMINED TASK OR GROUP OF TASKS ON WHICH ACCEPTANCE IS DEPENDANT.

ACCESS POINT (AP) - THE CENTRAL OR CONTROL POINT IN A WIRELESS CELL THAT ACTS AS A LINK FOR TRAFFIC TO AND FROM WIRELESS DEVICES IN THE CELL. THE AP ALSO CONNECTS WIRELESS DEVICES TO THE WIRED PORTION OF THE NETWORK.

ACTIVE CIRCUIT - A VOICE/DATA/VIDEO CHANNEL CONNECTED TO A CIRCUIT.

ACTIVE EQUIPMENT - ENERGIZED EQUIPMENT USED FOR RECEIVING OR TRANSMITTING ANALOG OR DIGITAL SIGNALS.

ADMINISTRATION - THE METHODOLOGY DEFINING THE DOCUMENTATION REQUIREMENTS OF A CABLING SYSTEM AND ITS CONTAINMENT, THE LABELING OF FUNCTIONAL ELEMENTS AND THE PROCESS BY WHICH MOVES, ADDS, AND CHANGES ARE RECORDED. (ISO)

ALIEN CROSSTALK - UNWANTED TRANSFER OF SIGNAL FROM ONE OR MORE CIRCUITS IN A GIVEN CABLE TO OTHER CIRCUITS IN ANOTHER CABLE.

ATTENUATION - THE DECREASE IN MAGNITUDE OF TRANSMISSION SIGNAL STRENGTH BETWEEN POINTS, EXPRESSED IN DB AS THE RATIO OF OUTPUT TO INPUT SIGNAL LEVEL.

ATTENUATION TO CROSSTALK RATION (ACR) - THE RATIO OBTAINED BY SUBTRACTING INSERTION LOSS (ATTENUATION [dB]) FROM NEAR-END CROSSTALK (dB). ACR IS NORMALLY STATED AT A GIVEN FREQUENCY. SEE SIGNAL TO NOISE RATIO.

BACKBONE - A FACILITY (E.G., PATHWAY, CABLE, OR CONDUCTORS) BETWEEN ANY OF THE FOLLOWING SPACES: TELECOMMUNICATIONS ENCLOSURES, TELECOMMUNICATIONS ROOMS, EQUIPMENT ROOMS, AND ENTRANCE FACILITIES.

BACKBONE BONDING CONDUCTOR - A COPPER CONDUCTOR EXTENDING FROM THE TELECOMMUNICATIONS MAIN GROUNDING BUSBAR TO THE FARTHEST FLOOR TELECOMMUNICATIONS GROUNDING BUSBAR. (TIA)

BALANCED TWISTED-PAIR CABLE - A MULTI-CONDUCTOR CABLE COMPRISING TWO OR MORE COPPER CONDUCTORS TWISTED IN A MANNER DESIGNED TO CANCEL ELECTRICAL INTERFERENCE.

BANDWIDTH - A MEASURE OF THE RANGE OF FREQUENCIES ASSOCIATED WITH A GIVEN SIGNAL OR COMMUNICATIONS CHANNEL. TYPICALLY EXPRESSED IN HERTZ, IT IS USED TO DENOTE THE POTENTIAL TRANSMISSION CAPACITY OF THE MEDIA, DEVICE, OR SYSTEM.

BEND RADIUS - 1. MAXIMUM RADIUS THAT A CABLE CAN BE BENT TO AVOID PHYSICAL OR ELECTRICAL DAMAGE OR CAUSE ADVERSE TRANSMISSION PERFORMANCE. 2. RADIUS OF CURVATURE THAT A MEDIA CAN BEND WITHOUT SIGNAL DEGRADATION.

BICSI - AN INTERNATIONAL TELECOMMUNICATIONS ASSOCIATION.

BONDING - THE PERMANENT JOINING OF METALLIC PARTS TO FORM AN ELECTRICALLY CONDUCTIVE PATH THAT WILL ENSURE ELECTRICAL CONTINUITY AND THE CAPACITY TO CONDUCT SAFELY ANY CURRENT LIKELY TO BE IMPOSED. (TIA)

BONDING CONDUCTOR (BC) - A CONDUCTOR USED SPECIFICALLY FOR THE PURPOSE OF BONDING.

BONDING CONDUCTOR FOR TELECOMMUNICATIONS (BCT) - A CONDUCTOR THAT INTERCONNECTS THE BUILDINGS SERVICE EQUIPMENT (POWER) GROUND TO THE TELECOMMUNICATIONS GROUNDING SYSTEM.

BORING - A METHOD TO DISPLACE EARTH UNDER THE GROUND (WITHOUT BREAKING THE GROUND SURFACE (TRENCHING)) OR CUTTING GROUND SURFACES (E.G., SIDEWALKS, DRIVEWAYS, PARKING LOTS, AND ROAD SURFACES) NORMALLY, AND NOT TO DISPLACE OR REMOVE CONDUIT IS INSERTED.

CABLING SYSTEM - A SPECIFIC SYSTEM OF TELECOMMUNICATIONS CABLES, EQUIPMENT PATCH CORDS, CONNECTING HARDWARE, AND OTHER COMPONENTS THAT IS SUPPLIED AS A SINGLE ENTITY.

CARD READER - A SECURITY SYSTEM DEVICE THAT READS CODED CARDS.

CATEGORY - A RATING THAT DEFINES THE PERFORMANCE OF CABLING COMPONENTS AND SYSTEMS.

CELL - THE FIXED AREA IN WHICH A WIRELESS DEVICES OPERATES.

COMMUNICATIONS - SEE TELECOMMUNICATIONS.

CROSS-CONNECT - A FACILITY ENABLING THE TERMINATION OF CABLE ELEMENTS AND THEIR INTERCONNECTION OR CROSS-CONNECTION. (TIA)

CROSSTALK - UNWANTED TRANSFER OF SIGNAL FROM ONE OR MORE CIRCUITS TO OTHER CIRCUITS.

CUTOVER - THE PROCESS OF SWITCHING FROM OLD NETWORK COMPONENTS TO NEW NETWORK COMPONENTS.

DAISY-CHAIN TOPOLOGY - DEVICES ARE CONNECTED IN SERIES, ONE AFTER THE OTHER, AND THE TRANSMITTED SIGNALS GO TO THE FIRST DEVICES, THEN THE SECOND, ETC.

DATA - ELECTRONICALLY ENCODED INFORMATION. (TIA)

DATA COMMUNICATION - THE TRANSMISSION AND RECEPTION OF ELECTRONICALLY CODED INFORMATION.

DATA NETWORK - AN INTERCONNECTED SYSTEM OF COMPUTERS, PERIPHERALS, AND SOFTWARE OVER WHICH COMMANDS, FILES, AND MESSAGES ARE SENT AND RECEIVED.

DECIBEL (DB) - A LOGARITHMIC UNIT FOR MEASURING THE RELATIVE POWER OR STRENGTH OF A SIGNAL.

DELAY SKEW - THE DIFFERENCE IN PROPAGATION DELAY BETWEEN ANY TWO PAIRS WITHIN THE SAME CABLE SHEATH. (TIA)

DEMARCATION POINT (DP) - 1. A POINT WHERE THE OPERATIONAL CONTROL OR OWNERSHIP CHANGES. (TIA) 2. THE POINT OF INTERFACE BETWEEN SERVICE PROVIDERS AND CUSTOMER FACILITIES.

DIELECTRIC - 1. THE NONCONDUCTIVE PROPERTIES OF AN INSULATING MATERIAL THAT RESISTS THE PASSAGE OF ELECTRIC CURRENT, THE INSULATION SURROUNDING A COPPER CONDUCTOR IS KNOWN AS A DIELECTRIC. 2. A MATERIAL THAT IS NONMETALLIC AND NONCONDUCTIVE. 3. A NONCONDUCTOR OF DIRECT ELECTRIC CURRENT.

DIRECT-BURIED CABLE - A TELECOMMUNICATIONS CABLE DESIGNED TO BE INSTALLED UNDER THE SURFACE OF THE EARTH, IN DIRECT CONTACT WITH THE SOIL. (TIA)

ELECTROMAGNETIC INTERFERENCE (EMI) - RADIATED OR CONDUCTED ELECTROMAGNETIC ENERGY THAT HAS AN UNDESIRABLE EFFECT ON ELECTRONIC EQUIPMENT OR SIGNAL TRANSMISSIONS. (TIA)

EQUAL LEVEL FAR-END CROSSTALK (ELFEXT) - CROSSTALK MEASURED AT THE OPPOSITE END FROM WHICH THE DISTURBING SIGNAL IS TRANSMITTED, NORMALIZED BY THE ATTENUATION CONTRIBUTION OF THE CABLE OR CABLING.

FAR-END CROSSTALK (NEXT) LOSS - A MEASURE OF THE UNWANTED SIGNAL COUPLING FROM A TRANSMITTER AT THE NEAR END INTO ANOTHER PAIR MEASURED AT THE FAR END, AND RELATIVE TO THE TRANSMITTED SIGNAL LEVEL. ALSO CALLED INPUT/OUTPUT FAR-END CROSSTALK LOSS. (TIA)

FAULT TOLERANCE - THE ABILITY OF A SYSTEM TO CONTINUE OPERATIONS AFTER THE FAILURE OF ONE OR MORE COMPONENTS.

FIBER OPTICS - A COMMUNICATION SYSTEM THAT USES OPTICAL FIBER AS ITS MEDIUM.

GIGABIT PER SECOND (GB/S) - A TRANSMISSION RATE DENOTING ONE BILLION BITS PER SECOND.

GIGAHERTZ (GHZ) - A UNIT OF FREQUENCY DENOTING ONE BILLION CYCLES PER SECOND (HERTZ).

HERTZ (HZ) - 1. A UNIT OF MEASURE USED TO EXPRESS THE RANGE OF FREQUENCIES ASSOCIATED WITH A GIVEN SIGNAL OR COMMUNICATIONS CHANNEL. THIS RANGE IS ALSO CALLED BANDWIDTH. 2. A UNIT OF FREQUENCY EQUAL TO ONE CYCLE PER SECOND.

HOME RUN - A PATHWAY OR CABLE BETWEEN TWO LOCATIONS WITHOUT A SPLICER OR INTERMEDIATE TERMINATION POINTS IN BETWEEN.

HORIZONTAL CABLE - 1. A PERMANENT ELEMENT OF THE HORIZONTAL CABLING THAT CONNECTS THE TELECOMMUNICATIONS OUTLET/CONNECTOR AT THE WORK AREA AND THE FIRST PIECE OF CONNECTING HARDWARE IN THE HORIZONTAL OR MAIN CROSS-CONNECT. 2. FOUR PAIR 24 AWG UNSHIELDED TWISTED PAIR (UTP).

HORIZONTAL CROSS-CONNECT - A GROUP OF CONNECTORS THAT ALLOWS EQUIPMENT AND BACKBONE CABLING TO BE CROSS-CONNECTED.

INNERDUCT - A NONMETALLIC RACEWAY, USUALLY CIRCULAR, PLACED WITHIN A LARGER PATHWAY. (TIA)

INTERMEDIATE CROSS-CONNECT (ICC) - THE CONNECTION POINT BETWEEN A BACKBONE CABLE THAT EXTENDS FROM THE MAIN CROSS-CONNECT AND THE BACKBONE CABLE FROM THE HORIZONTAL CROSS-CONNECT.

LATENCY - THE TIME IT TAKES FOR A SIGNAL TO PASS THROUGH A DEVICE OR NETWORK.

LOW-VOLTAGE CABLING/CABLING SYSTEM - TELECOMMUNICATIONS SIGNALING INCLUDES BUILDING AUTOMATION SIGNALING VOLTAGE LEVELS ARE TYPICALLY POWER LIMITED WHEN COMPARED TO ELECTRICAL POWER CIRCUITS THAT CAN VARY FROM 120V TO 240V ALTERNATING CURRENT AND TO 240 VOLTS AC IN COMMERCIAL BUILDINGS. CIRCUITS TYPICALLY USE AN INHERENTLY LIMITED POWER SOURCE WITHOUT OVER-CURRENT PROTECTION OR A NONINHERENTLY LIMITED POWER SOURCE WHERE OVER-CURRENT PROTECTION IS REQUIRED SINCE CABLES AND CABLES SYSTEMS ARE NOT USED TO DISTRIBUTE ELECTRICAL POWER, THE SIGNALING THAT OCCURS ON THESE COPPER-BASED SYSTEMS IS GENERALLY DESCRIBED AS LOW-VOLTAGE.

MAIN CROSS-CONNECT (MCC) - THE CROSS-CONNECT NORMALLY LOCATED IN THE (MAIN) TELECOMMUNICATIONS EQUIPMENT ROOM (ER) FOR CROSS-CONNECTION AND INTERCONNECTION OF ENTRANCE CABLES, FIRST-LEVEL BACKBONE CABLES, AND EQUIPMENT CABLES.

NEAR-END CROSSTALK (NEXT) LOSS - 1. THE UNWANTED SIGNAL COUPLING BETWEEN PAIRS, IT IS MEASURED AT THE END OF A CABLE NEAREST THE POINT OF TRANSMISSION. CONTRAST WITH FAR-END CROSSTALK. 2. THE SIGNAL TRANSFER BETWEEN CIRCUITS AT THE SAME (NEAR) END OF THE CABLE.

NETWORK - A GROUP OF THREE OR MORE NODES THAT CAN COMMUNICATE WITH EACH OTHER, EITHER DIRECTLY THROUGH CABLING OR INDIRECTLY THROUGH REPEATERS TO SEPARATE CABLING.

OUTSIDE PLANT (OSP) - TELECOMMUNICATIONS INFRASTRUCTURE DESIGNED FOR INSTALLATION EXTERIOR TO BUILDINGS.

PAIR - TWO INSULATED WIRES TWISTED AROUND EACH OTHER.

PAIR TWIST - THE UNIFORM TWIST OF AN INSULATED COPPER PAIR THAT HELPS TO REDUCE THE NEGATIVE EFFECTS OF CAPACITANCE IMBALANCE AND ELECTROMAGNETIC INDUCTION.

PATCH CORD - A LENGTH OF CABLE WITH A PLUG ON ONE OR BOTH ENDS.

PATCH PANEL - A CONNECTING HARDWARE SYSTEM THAT FACILITATES CABLE TERMINATION AND CABLING ADMINISTRATION USING PATCH CORDS.

PATHWAY - 1. A SEQUENCE OF CONNECTIONS THAT PROVIDES THE CONNECTIVITY BETWEEN DEVICES ON A NETWORK OR BETWEEN NETWORKS ON AN INTERNETWORK. 2. THE VERTICAL AND HORIZONTAL ROUTE OF THE TELECOMMUNICATIONS CABLE. 3. A FACILITY FOR THE PLACEMENT OF TELECOMMUNICATIONS CABLE. (TIA)

POWER SUM - USED TO SPECIFY A COMBINATION OF SIGNALS FROM MULTIPLE SOURCES.

POWER SUM ATTENUATION TO CROSSTALK RATIO - A RATIO IN DB, DETERMINED BY SUBTRACTING THE INSERTION LOSS FROM THE POWER SUM NEAR-END CROSSTALK LOSS. (TIA)

POWER SUM EQUAL LEVEL FAR-END CROSSTALK (PSNEXT) - A COMPUTATION OF THE UNWANTED SIGNAL COUPLING FROM MULTIPLE TRANSMITTERS AT THE NEAR-END INTO A PAIR MEASURED AT THE FAR-END, AND NORMALIZED TO THE RECEIVED SIGNAL LEVEL. (TIA)

POWER SUM NEAR-END CROSSTALK (PSNEXT) LOSS - A COMPUTATION OF THE UNWANTED SIGNAL COUPLING FROM MULTIPLE TRANSMITTERS AT THE NEAR-END INTO A PAIR MEASURED AT THE NEAR-END. (TIA)

PULL TENSION - THE PULLING FORCE THAT CAN BE APPLIED TO A CABLE. (TIA)

PUNCH DOWN - THE PROCESS OF TERMINATING COPPER CABLE CONDUCTORS ON INSULATION DISPLACEMENT CONNECTION TERMINALS BY USE OF A HANDHELD TOOL.

QUEUING - A TECHNIQUE THAT REDUCES TRANSMISSION DELAYS BY CLASSIFYING AND SORTING DATA PRIOR TO PROCESSING BY THE TRANSMITTING DEVICE.

RACEWAY - ANY ENCLOSED CHANNEL DESIGNED FOR HOLDING WIRES OR CABLES. (TIA)

RADIO FREQUENCY INTERFERENCE - ELECTROMAGNETIC INTERFERENCE WITHIN THE FREQUENCY BAND FOR RADIO TRANSMISSION.

RETURN LOSS - A RATIO, EXPRESSED IN DB, OF THE POWER OF THE OUTGOING SIGNAL TO THE POWER OF THE REFLECTED SIGNAL. (TIA)

REVERSED PAIR - A CONDITION IN WHICH THE CONDUCTORS IN A PAIR ARE TERMINATED IN THE WRONG SEQUENCE.

RIBBON CABLE - AN ASSEMBLY OF CONDUCTORS LAID SIDE BY SIDE IN A GEOMETRIC PLANE AND FASTENED TOGETHER.

SCALABILITY - THE ABILITY OF A NETWORK TO GROW WITHOUT DEGRADATION OF QUALITY.

SERVICE LOOP - A SURPLUS OF CABLE AT THE POINT OF TERMINATION TO FACILITATE POTENTIAL FUTURE CHANGES.

SHIELDED ENCLOSURE CABINET - A METAL ELECTRONICS CABINET CONSTRUCTED WITH WELDED SEAMS AND CONDUCTIVE GASKETS ON THE DOORS THAT SERVE AS AN EFFECTIVE SHIELD AGAINST ELECTROMAGNETIC RADIATION.

SPLIT PAIR - TRANSPOSITION OF TWO CONDUCTORS OF SEPARATE PAIRS.

STAR TOPOLOGY - A NETWORK TOPOLOGY IN WHICH SERVICES ARE DISTRIBUTED FROM A CENTRAL POINT.

STRUCTURED CABLING SYSTEM - THE COMPLETE COLLECTIVE CONFIGURATION OF TELECOMMUNICATIONS CABLING AND ASSOCIATED HARDWARE AT A GIVEN LOCATION.

SWEEP - BEND THAT HAS A GENTLE ARC RATHER THAN A SHARP BEND.

DEFINITIONS (CONTINUED)

TELECOMMUNICATIONS - ANY TRANSMISSION, EMISSION, AND RECEPTION OF SIGNS, SIGNALS, WRITINGS, IMAGES, AND SOUNDS, THAT IS, INFORMATION OF ANY NATURE BY CABLE, RADIO, OPTICAL, OR OTHER ELECTROMAGNETIC SYSTEMS. (TIA)

TELECOMMUNICATIONS BONDING BACKBONE - A CONDUCTOR THAT INTERCONNECTS THE TELECOMMUNICATIONS MAIN GROUNDING BUSBAR (TMGB) TO THE TELECOMMUNICATIONS GROUNDING BUSBAR (TGB). (TIA)

TELECOMMUNICATIONS EQUIPMENT BONDING CONDUCTOR - A CONDUCTOR INSTALLED FROM EACH PIECE OF EQUIPMENT TO THE TELECOMMUNICATIONS GROUNDING BUSBAR OR TELECOMMUNICATIONS MAIN GROUNDING BUSBAR.

TELECOMMUNICATIONS CABINET - AN ENCLOSURE USED FOR TERMINATING TELECOMMUNICATIONS CABLES, WIRING, AND CONNECTION DEVICES WITH A HINGED COVER, USUALLY FLUSH-MOUNTED IN THE WALL. (TIA)

TELECOMMUNICATIONS ENCLOSURE - A CASE OR HOUSING FOR TELECOMMUNICATIONS EQUIPMENT, CABLE TERMINATIONS, AND CROSS-CONNECT CABLING. (TIA)

TELECOMMUNICATIONS ENTRANCE FACILITY - AN ENTRANCE TO A BUILDING FOR BOTH PUBLIC AND PRIVATE NETWORK SERVICE CABLES (INCLUDING WIRELESS) INCLUDING THE ENTRANCE POINT AT THE BUILDING WALL AND CONTINUING TO THE ENTRANCE ROOM OR SPACE. (TIA) 2. A FACILITY THAT PROVIDES ALL NECESSARY MECHANICAL AND ELECTRICAL SERVICES, THAT COMPLIES WITH ALL RELEVANT REGULATIONS, FOR THE ENTRY OF TELECOMMUNICATIONS CABLES INTO A BUILDING. (ISO)

TELECOMMUNICATIONS EQUIPMENT ROOM - AN ENVIRONMENTALLY CONTROLLED CENTRALIZED SPACE FOR TELECOMMUNICATIONS EQUIPMENT THAT USUALLY HOUSES A MAIN OR INTERMEDIATE CROSS-CONNECT. (TIA)

TELECOMMUNICATIONS GROUNDING BUSBAR - A COMMON POINT OF CONNECTION FOR TELECOMMUNICATIONS SYSTEM AND EQUIPMENT BONDING TO GROUND, AND LOCATED IN THE TELECOMMUNICATIONS ROOM OR EQUIPMENT ROOM.

TELECOMMUNICATIONS INFRASTRUCTURE - A COLLECTION OF THOSE TELECOMMUNICATIONS COMPONENTS, EXCLUDING EQUIPMENT, THAT TOGETHER PROVIDE THE BASIC SUPPORT FOR THE DISTRIBUTION OF ALL INFORMATION WITHIN A BUILDING OR CAMPUS.

TELECOMMUNICATIONS MAINTENANCE HOLE - A VAULT LOCATED IN THE GROUND OR EARTH AS PART OF A UNDERGROUND DUCT SYSTEM AND USED TO FACILITY PLACING, CONNECTORIZATION, AND MAINTENANCE OF CABLES AS WELL AS THE PLACING OF ASSOCIATED EQUIPMENT, IN WHICH IT IS EXPECTED THAT A PERSON WILL ENTER TO PERFORM WORK. (TIA)

TELECOMMUNICATIONS MEDIA - WIRE, CABLE, OR CONDUCTORS USED FOR TELECOMMUNICATIONS. (TIA)

TELECOMMUNICATIONS OUTLET/CONNECTOR - A CONNECTING DEVICE IN THE WORK AREA ON WHICH HORIZONTAL CABLE OR OUTLET CABLE TERMINATES.

TELECOMMUNICATIONS ROOM - AN ENCLOSED ARCHITECTURAL SPACE FOR HOUSING TELECOMMUNICATIONS EQUIPMENT, CABLE TERMINATIONS, AND CROSS-CONNECT CABLING. (TIA)

TELECOMMUNICATIONS SPACE - AN AREA USED FOR HOUSING THE INSTALLATION AND TERMINATION OF TELECOMMUNICATIONS EQUIPMENT AND CABLE (E.G., COMMON EQUIPMENT ROOMS, EQUIPMENT ROOMS, COMMON TELECOMMUNICATIONS ROOMS, TELECOMMUNICATIONS ROOMS, WORK AREAS, MAINTENANCE HOLES/HANDHOLES). (TIA)

TRANSPPOSED PAIRS - WHEN TWO PAIRS OF CONDUCTORS ARE TERMINATED IN EACH OTHER'S LOCATION.

UNDERGROUND - REFERS TO CONDUIT AND MAINTENANCE HOLES SYSTEMS INSTALLED BELOW THE SURFACE OF THE GROUND.

UNDERGROUND CABLE - A TELECOMMUNICATIONS CABLE DESIGNED TO BE INSTALLED UNDER THE SURFACE OF THE EARTH IN A TROUGH OR DUCT THAT ISOLATES THE CABLE FROM DIRECT CONTACT WITH THE SOIL. (TIA)

UTILITY COLUMN - AN ENCLOSED PATHWAY EXTENDING FROM THE CEILING TO FURNITURE OR TO THE FLOOR THAT FORMS A PATHWAY FOR ELECTRICAL WIRING.

WORK AREA (WORK STATION) - A BUILDING SPACE WHERE THE OCCUPANTS INTERACT WITH TELECOMMUNICATIONS TERMINAL EQUIPMENT. (TIA)

WORK AREA CABLE (CORD) - A CABLE CONNECTING THE TELECOMMUNICATIONS OUTLET/CONNECTOR TO THE TERMINAL EQUIPMENT.

WORK AREA OUTLET - A CONNECTING DEVICE FOR TERMINATION OF HORIZONTAL MEDIA.

ABBREVIATIONS

8P8C - EIGHT PIN, EIGHT CONNECTOR UTP CABLE TERMINATION

ACR - ATTENUATION-TO-CROSSTALK RATIO

ANSI - AMERICAN NATIONAL STANDARDS INSTITUTE

AWG - AMERICAN WIRE GAUGE

BAS - BUILDING AUTOMATION SYSTEM

BC - BONDING CONDUCTOR

BCT - BONDING CONDUCTOR FOR TELECOMMUNICATIONS

BICSI - BUILDING INDUSTRY CONSULTING SERVICE INTERNATIONAL

CO-OSP - CUSTOMER-OWNED OUTSIDE PLANT

DB - DECIBEL

DEMARC - DEMARCATION POINT

DPS - DOOR POSITION SWITCH

EAC - ELECTRONIC ACCESS CONTROL

EF - ENTRANCE FACILITY

EIA - ELECTRONIC INDUSTRIES ALLIANCE

EMI - ELECTROMAGNETIC INTERFERENCE

ER - TELECOMMUNICATIONS EQUIPMENT ROOM

FCC - FEDERAL COMMUNICATIONS COMMISSION

GB - GIGABIT

GHZ - GIGAHERTZ

HC - HORIZONTAL CROSS-CONNECT

HZ - HERTZ

IBC - INTERCONNECTING BONDING CONDUCTOR

IC - INTERMEDIATE CROSS-CONNECT

IDC - INSULATION DISPLACEMENT CONNECTION (OR)

IEEE - INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.

KB - KILOBIT

KB - KILOBYTE

KHZ - KILOHERTZ

KM - KILOMETER

LEC - LOCAL EXCHANGE CARRIER

LAN - LOCAL AREA NETWORK

LASER - LIGHT AMPLIFICATION BY STIMULATED EMISSION OF RADIATION

LED - LIGHT-EMITTING DIODE

MB - MEGABIT

MC - MAIN CROSS-CONNECT

MH - TELECOMMUNICATIONS MAINTENANCE HOLE

MHZ - MEGAHERTZ

MUTO - MULTI-USER TELECOMMUNICATIONS OUTLET

MUTOA - MULTI-USER TELECOMMUNICATIONS OUTLET ASSEMBLY

NOS - NETWORK OPERATING SYSTEM

NEC - NATIONAL ELECTRIC CODE

NPFA - NATIONAL FIRE PROTECTION ASSOCIATION

NTS - NETWORK TRANSPORT SYSTEMS

OS - OPERATING SYSTEM

PSACR - POWER SUM ATTENUATION TO CROSSTALK RATIO

PSNEXT - POWER SUM EQUAL LEVEL FAR-END CROSSTALK

QOS - QUALITY-OF-SERVICE

RCDD - REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER

RFI - RADIO FREQUENCY INTERFERENCE

RFID - RADIO FREQUENCY IDENTIFICATION

RGB - RED, GREEN, BLUE

SONET - SYNCHRONOUS OPTICAL NETWORK

SPOOL - SIMULTANEOUS PERIPHERAL OPERATION ONLINE

TGB - TELECOMMUNICATIONS GROUNDING BUSBAR

TMGB - TELECOMMUNICATIONS MAIN GROUNDING BUSBAR

TR - TELECOMMUNICATIONS ROOM

UTP - UNSHIELDED TWISTED PAIR

VCSEL - VERTICAL CAVITY SURFACE EMITTING LASER

VGA - VIDEO GRAPHICS ARRAY

VOD - VIDEO-ON-DEMAND

VOIP - VOICE OVER INTERNET PROTOCOL

WAP - WIRELESS ACCESS POINT

WLAN - WIRELESS LOCAL AREA NETWORK

X - CROSS-CONNECT

TELECOMMUNICATIONS SYS.

	SCOPE OF WORK	OUTLET INFORMATION	MOUNTING HEIGHT	NOTES
TELECOMMUNICATIONS OUTLET	ROUGH-IN UTP CABLE (BLUE) 8P8C CONNECTOR(S)	(1) 1" CONDUIT, (1) 2-GANG BOX	+18" A.F.F. WALL MTD.	PROVIDE SINGLE REDUCER
TELECOMMUNICATIONS COUNTERTOP OUTLET	ROUGH-IN UTP CABLE (BLUE) 8P8C CONNECTOR(S)	(1) 1" CONDUIT, (1) 2-GANG BOX	2" ABV. BACKSPLASH TO BOTTOM	PROVIDE SINGLE REDUCER, ALIGN WITH POWER RECEPTACLE
TELECOMMUNICATIONS AUDIO / VIDEO OUTLET	ROUGH-IN UTP CABLE (BLUE) 8P8C CONNECTOR(S)	(2) 1-1/4" CONDUITS, (1) 2-GANG BOX	+18" A.F.F. WALL MTD.	---
WIRELESS ACCESS POINT OUTLET (CEILING MOUNTED)	UTP CABLE (BLUE)	---	CEILING MOUNTED, SEE T-SERIES DRAWINGS FOR LOCATIONS	---
TELECOMMUNICATIONS WALL CABINET	CABINET (AS SPECIFIED)	---	WALL MOUNTED	---

SOUND SYSTEMS

	SCOPE OF WORK	ROUGH-IN INFORMATION	MOUNTING HEIGHT	NOTES
INTERCOM SPEAKER (CEILING MOUNTED)	UTP CABLE (YELLOW)	---	CEILING MOUNTED, SEE T-SERIES DRAWINGS FOR LOCATIONS	---
INTERCOM SPEAKER (WALL MOUNTED)	UTP CABLE (YELLOW)	(1) 1" CONDUIT, (1) SINGLE GANG BOX	AS NOTED ON PLANS	---
INTERCOM SPEAKER HORN (CEILING MOUNTED)	UTP CABLE (YELLOW)	---	CEILING MOUNTED, SEE T-SERIES DRAWINGS	---
INTERCOM SPEAKER HORN (WALL MOUNTED)	UTP CABLE (YELLOW)	(1) 1" CONDUIT, (1) SINGLE GANG BOX	AS NOTED ON PLANS	---

SECURITY SYSTEMS

	SCOPE OF WORK	OUTLET INFORMATION	MOUNTING HEIGHT	NOTES
SURVEILLANCE CAMERA (CEILING MOUNTED)	UTP CABLE (WHITE)	---	CEILING MOUNTED, SEE T-SERIES DRAWINGS FOR LOCATIONS	---
SURVEILLANCE CAMERA (WALL MOUNTED)	UTP CABLE (WHITE)	(1) 1" CONDUIT, (1) SINGLE GANG BOX	AS NOTED ON PLANS	---
CARD READER	ROUGH-IN	(1) 1" CONDUIT, (1) SINGLE GANG BOX	+48" A.F.F. WALL MTD.	---

VIDEO SYSTEMS

	SCOPE OF WORK	OUTLET INFORMATION	MOUNTING HEIGHT	NOTES
WALL-MOUNTED DISPLAY MONITOR	ROUGH-IN UTP CABLE (BLUE)	(2) 1 1/4" CONDUIT, (1) 2-GANG BOX	AS NOTED ON PLANS	ALIGNED WITH ELECTRICAL OUTLET
CEILING-MOUNT PROJECTOR	ROUGH-IN UTP CABLE (BLUE)	PROJECTOR CEILING PAN	CEILING MOUNTED, SEE T-SERIES DRAWINGS FOR LOCATIONS	---

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#	Revision	Date
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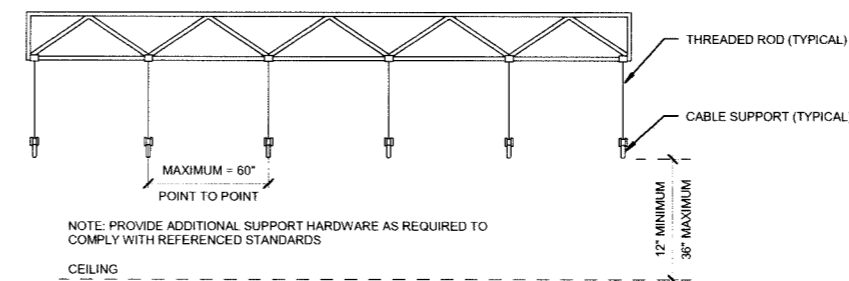
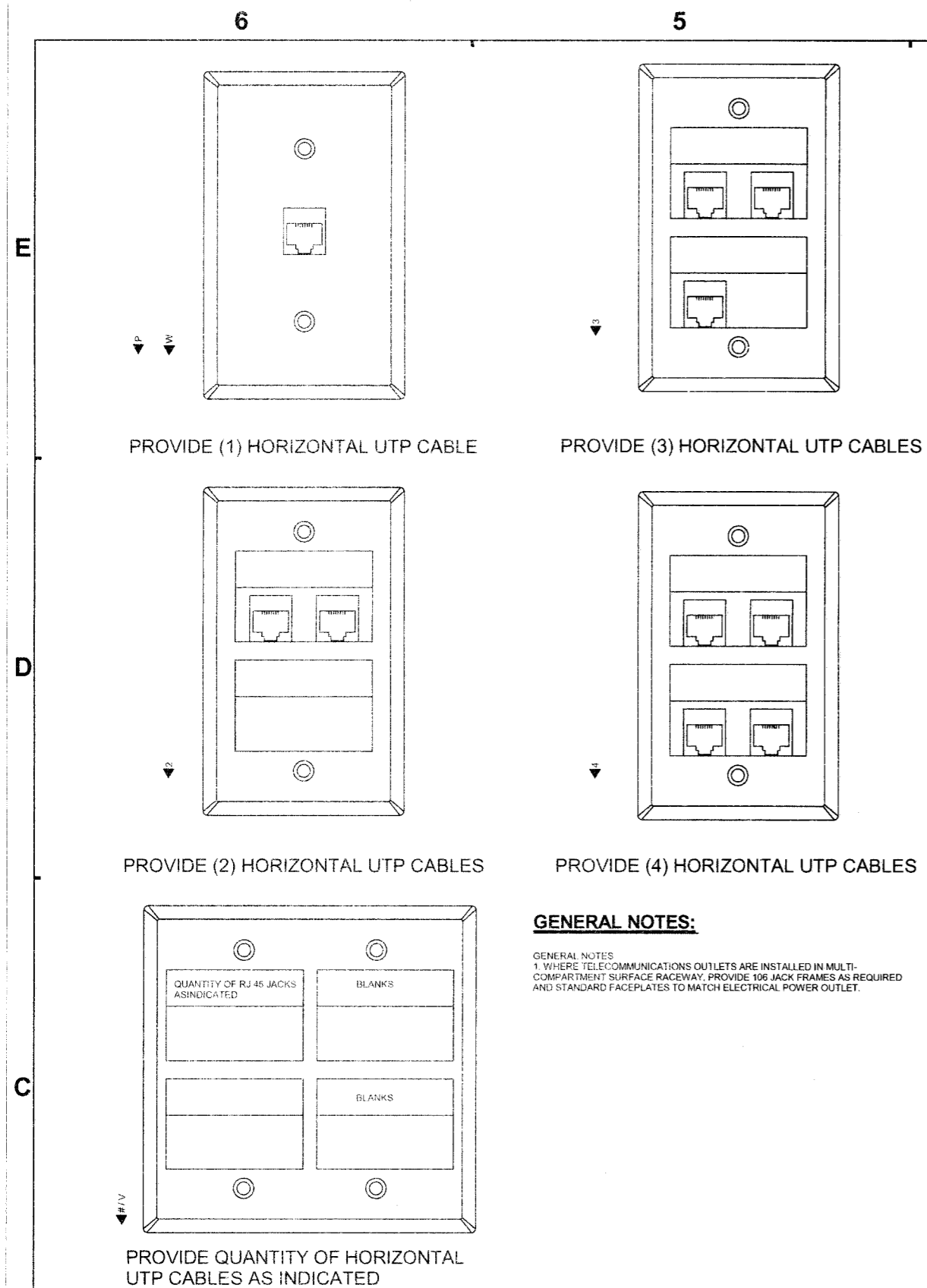
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MSD OF LAWRENCE TOWNSHIP

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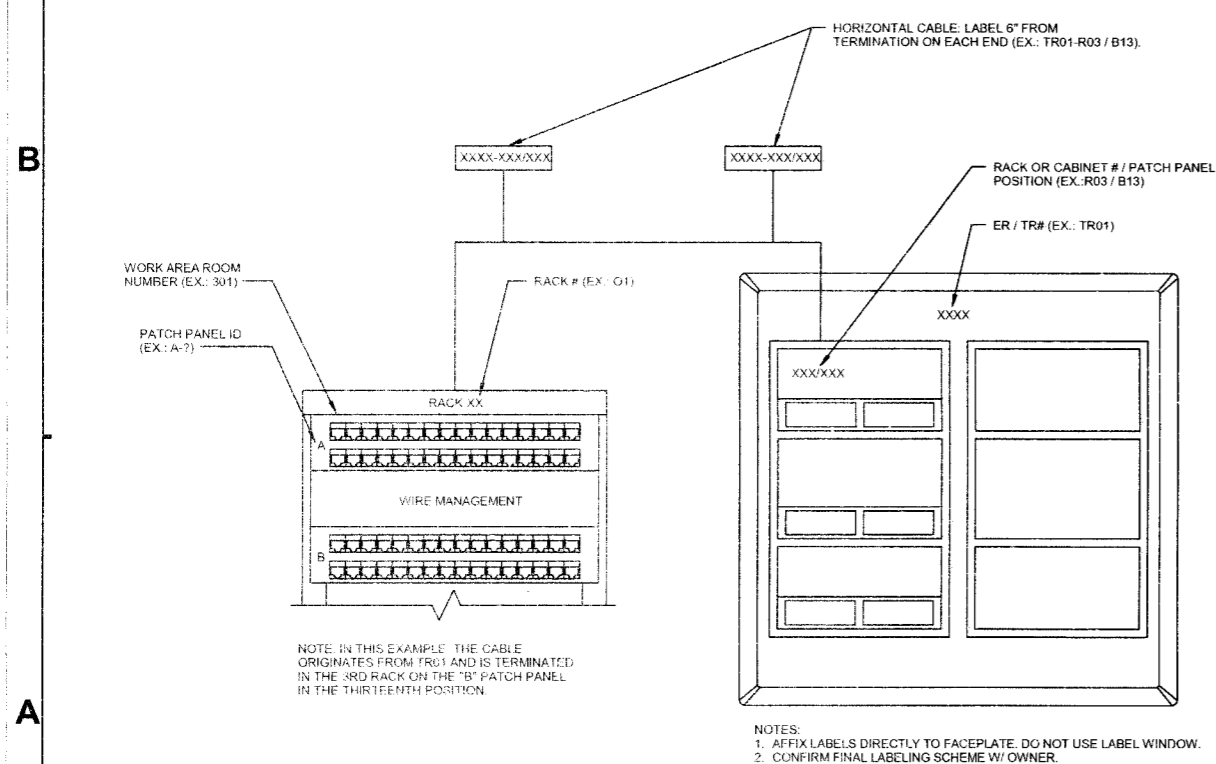
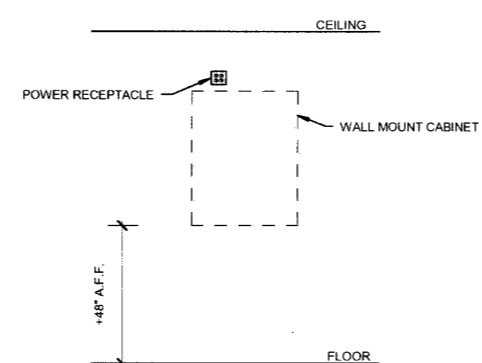
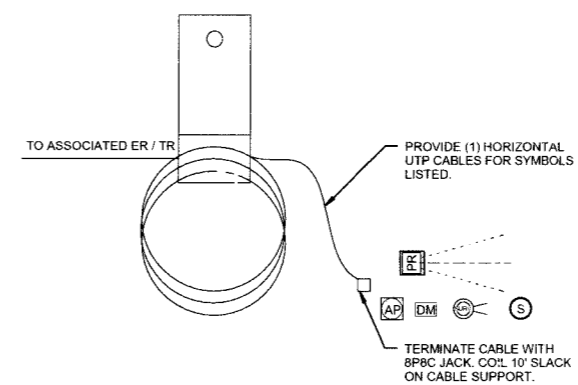
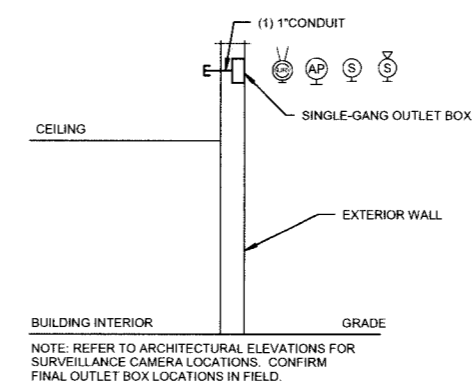
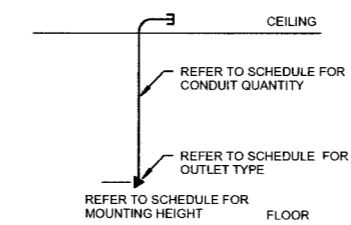
TELECOMMUNICATIONS SYMBOLS AND ABBREVIATIONS

T-001



ROUGH-IN GENERAL NOTES:

1. TERMINATE ALL ROUGH-IN CONDUITS WITH 90 DEGREE SWEEP AND BUSHINGS IN NEAREST CONCEALED ACCESSIBLE CEILING SPACE.
2. CONDUIT BEND RADIUS TO BE COMPLIANT WITH BICSI TDM-1 MANUAL 12TH ED.
3. ALL ROUGH-IN CONDUITS ARE 1" UNLESS OTHERWISE NOTED.
4. PROVIDE NO MORE THAN THE EQUIVALENT OF (2) 90 DEGREE BENDS IN A SINGLE CONDUIT RUN.
5. ROUGH-IN OUTLET BOXES TO HAVE 90 DEGREE OPENING CORNERS ON FACE OF BOX.
6. ALL ROUGH-INS BY ELECTRICAL CONTRACTOR.



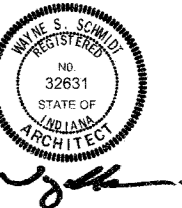
SCHMIDT



ASSOCIATES

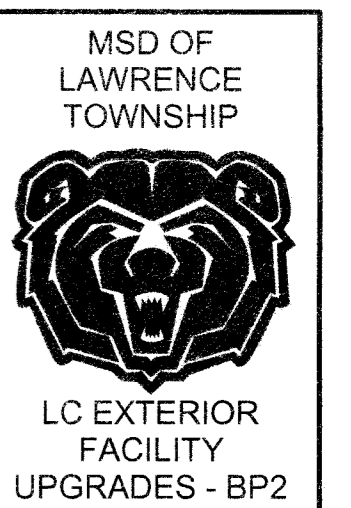
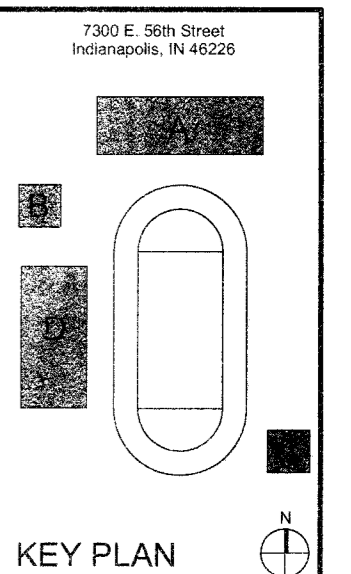
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Indianapolis, Indiana 46204
www.schmidt-arch.com

Project No. 2015-121.LCS
Project Date 04.18.2016
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#	Revision	Date

TELECOMMUNICATIONS
DETAILS

T-501

6

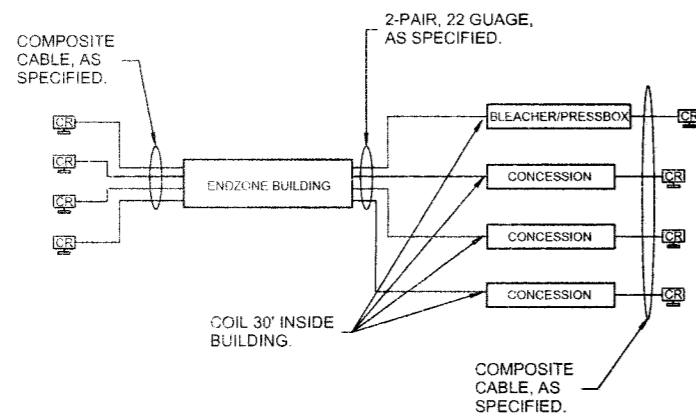
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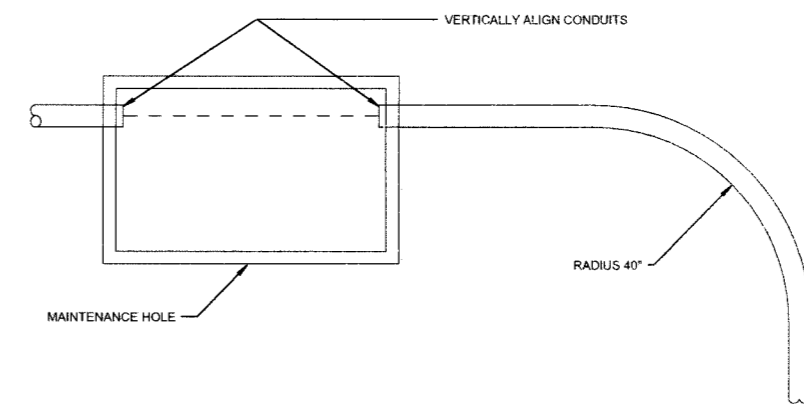
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2

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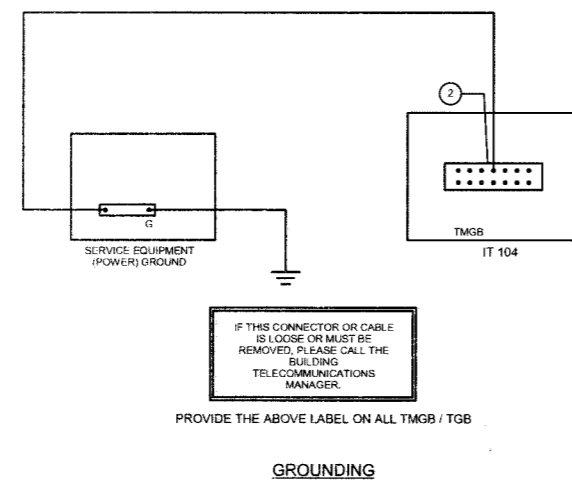


5 ELECTRONIC SECURITY CONNECTIVITY SCHEM.
1/8" = 1'-0"

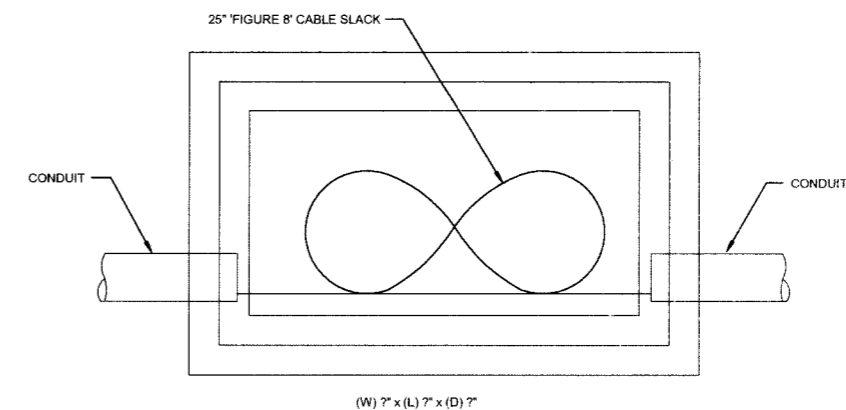


3 COMMUNICATIONS BENDS TO MAINTENANCE HOLE
1/8" = 1'-0"

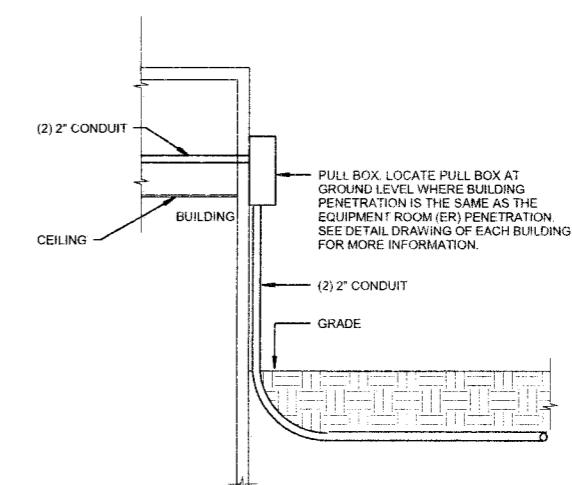
SIZING OF THE TBB	
TBB LENGTH (FEET)	TBB SIZE (AWG)
LESS THAN 13	6
14-20	4
21-26	3
27-33	2
34-41	1
42-52	1/0
53-66	2/0
67-84	3/0
85-105	4/0
106-125	250 kcmil
126-150	300 kcmil
151-175	350 kcmil
176-250	500 kcmil
251-300	600 kcmil
Greater than 301	750 kcmil
CONFIRM ALL SIZING WITH J-STD-607-A	



4 BACKBONE / GROUNDING SCHEMATICS
1/8" = 1'-0"



2 MAINTENANCE HOLE WITH NO SPLICE
1/8" = 1'-0"



1 TYPICAL ENTRANCE FACILITY FOR EXISTING BUILDING
1/8" = 1'-0"

ABBREVIATIONS:
MC - MAIN CROSS-CONNECT
ER - EQUIPMENT ROOM
TR - TELECOMMUNICATIONS ROOM
TBB - TELECOMMUNICATIONS BONDING BACKBONE
TMGB - TELECOMMUNICATIONS GROUNDING BUSBAR
TMGB - TELECOMMUNICATIONS MAIN GROUNDING BUSBAR
BG - TELECOMMUNICATIONS BONDING CONDUCTOR

DRAWING NOTES:

- PROVIDE TELECOMMUNICATIONS BACKBONE CABLES AND GROUNDING / BONDING TBB BETWEEN THE MC AND EACH MC/ER AS FOLLOWS:
- 12 STRANDS OF MULTI-MODE FIBER, AS SPECIFIED.
- TBB SIZED PER STANDARDS.
- WITHIN THE TELECOMMUNICATIONS EQUIPMENT ROOM (ER) AND EACH TELECOMMUNICATIONS ROOM (TR) BOND THE TMGB AND EACH TBB TO THE FOLLOWING:
- STRUCTURAL STEEL
- ALL METALLIC MATERIAL
- CABLE TRAY
- EQUIPMENT CABINETS AND RACKS

GENERAL NOTES:

- ALL WORK INDICATED SHALL BE FULLY COMPLIANT WITH THE FOLLOWING STANDARDS:
A. ANSI / TIA / EIA - 568 - B COMMERCIAL BUILDING TELECOMMUNICATIONS STANDARD PART 1, PART 2 AND PART 3 INCLUDING ALL SUB-PARTS AND ADDENDUMS.
B. TIA - 569 - B COMMERCIAL BUILDING STANDARD FOR TELECOMMUNICATIONS PATHWAYS AND SPACES INCLUDING ALL SUB-PARTS AND ADDENDUMS.
C. ANSI / TIA / EIA - 606 - A ADMINISTRATION STANDARD FOR COMMERCIAL TELECOMMUNICATIONS INFRASTRUCTURE INCLUDING ALL SUB-PARTS AND ADDENDUMS.
D. ANSI - J - STD - 607 - A COMMERCIAL BUILDING GROUNDING (EARTHING) AND BONDING REQUIREMENTS FOR TELECOMMUNICATIONS.
- ROUTE ALL TBB ALONG PRIMARY PATHWAY WITH TELECOMMUNICATIONS CABLES.
- COORDINATE SPECIFIC EQUIPMENT ELEVATIONS WITH ARCHITECT ENGINEER.

SCHMIDT



ASSOCIATES
415 Massachusetts Avenue
Indianapolis, Indiana 46204
www.schmidt-arch.com

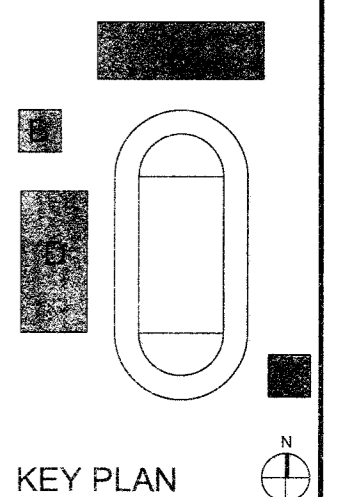
Project No. 2015-121.LCS
Project Date 04.18.2016
Produced MD



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Revision Date

7300 E. 56th Street
Indianapolis, IN 46226



MSD OF
LAWRENCE
TOWNSHIP



LC EXTERIOR
FACILITY
UPGRADES - BP2

TELECOMMUNICATIONS
DETAILS

T-502

At erosion and sediment control practices shall be in accordance with the Indiana Handbook for Erosion Control in Developing Areas from the Division of Soil Conservation, Indiana Department of Natural Resources.

A copy of this Erosion and Sediment Control Plan and the Erosion and Sediment Control Report shall be available at the Project Site throughout the entire construction period.

The Contractor shall control water, garbage, debris, wastewater, and other substances on the site as they will not be allowed to leave the site in any form, either in water runoff or other means. Proper disposal of household and construction waste and unneeded building material appropriate to the nature of the waste or material is required.

Public or private roadways shall be kept clear of accumulated sediment. All sediment that is cleaned must be returned to the place of origin or other suitable location. Clearing of large amounts of sediment shall not include flushing the site with water.

Minimize the exposure of bare earth by limiting the work area to that necessary to perform the Work, and by proper scheduling of mowover and seeding.

All erosion and sediment control measures shall be inspected, cleaned, and maintained following each storm event.

Whenever possible, materials existing negative value. Use non-negative material including mulch, erosion blankets, or stone to control erosion from disturbed areas.

All erosion and sediment control measures shown shall be maintained throughout construction. An installed practice shall not be removed until the area of the Work contributing runoff to the practice has been completely stabilized and stabilized, or until such time as the area has been installed to provide proper protection to the site and surrounding area from erosion and sedimentation.

- A. Locate all utilities locations as appropriate. The Contractor shall be responsible for determining the exact location of the existing utilities and reporting any damage done to the utilities during prebidding or construction. To obtain field locations for all utilities, the Contractor shall contact the appropriate local utilities at 1-800-333-5544.
- B. Contractor shall coordinate with Utility Companies for the relocation of utilities on site or crossing the site to service adjacent properties. Do not interrupt existing utilities serving facilities occupied and used by Owner or others, during occupied hours, except when permitted.
- C. Coordinate all utilities with M, E, and P Series Drawings.
- D. All costs incurred in coordination of all new utility services shall be the responsibility of the Contractor.
- E. All connections to existing storm, sanitary, water, gas, communication, and electric utilities shall be verified with Engineer and coordinated with respective Utility party to beginning Work.
- F. A layer of 18" fabric shall be placed under each pile casting during the construction period.
- G. Maintain 12 feet (horizontal) and 18 inches (vertical) separation between water mains and storm/sanitary services. This measurement shall be outside to outside of pipes.

Contractor shall verify all existing drainage in field and report any discrepancies immediately to the Architect/Engineer. Contractor shall provide positive drainage in all areas. Paving Contractor shall test for any ponding conditions after installation and correct. See specifications.

See Silt Grading Sheets for erosion control to be incorporated during construction.

Contractor shall coordinate all earth moving activities with all existing and new utilities. Verify cover requirements with Utility Contractors and/or Utility Companies so not to cause damage.

Contractor shall stabilize all earthwork areas disturbed during construction. See Second Soil Protection Chart and Erosion Control Plan.

Contractor shall stabilize any stockpiled topsoil exposed within 15 days of stockpiling. See Second Soil Protection Chart and Erosion Control Plan.

Provide maximum protection from new access to existing features as necessary.

The Contractor shall prepare the final grade of $1/2"$ below adjacent low points. Finished grades in planting areas shall be $1"$ lower than adjacent paving and to be $1/2"$ below existing low points.

Prior to final grading, Contractor shall maintain all water draining off site consistent with Drawings. No water shall be diverted onto adjoining properties during any part of the grading process.

A. Iatographic and any information has been obtained from Cipe dated 12/15/2015 certified by Eric C. White. Schmetz Associates, Inc. claims no responsibility for the accuracy of the information contained in this survey.

All designs to existing improvements, relocation and/or removal of any of the existing improvements during construction shall be approved by the Contractor. Any existing improvements during construction shall be restored, reconstructed or replaced by the Contractor at his expense.

It is the responsibility of the Contractor to remove all mud, dirt, gravel, and any other materials trucked onto any public or private streets or sidewalks.

Provide enough transition from new areas to existing features as necessary.

The Contractor shall submit samples of materials and finishes to the Landscape Architect/Engineer for approval prior to ordering or installation as outlined in the specifications.

All areas where proposed coping pavement meets the existing pavement, the existing pavement edge shall be properly finished.

Removal of existing curbs and asphalt pavement indicated on plans shall be shown, neat and true to subgrade. Material from existing paved areas to be removed. All cuts shall be clean, neat and true to line. Where plant material is to be removed, the contractor shall remove all plant material and roots to a depth of 12 inches below the existing finish with prepared plant material. Contractor shall dispose of excavated material off-site at all approved disposal sites only, unless shown otherwise.

Demolish and completely remove from site, all existing underground utilities to be removed. Coordinate with Utility Companies and Owner for shut-off services, if lines are active.

All underground utilities or structures to be prepared/paving or building areas requiring removal shall be located/confirmed with approved engineering geologist material suitable to the Landscape Architect/Engineer.

Refer to M, E and P Series Drawings for site demolition Work to be performed by Mechanical and Electrical Contractor.

Contractor shall be responsible for the protection of existing trees and shrubs designated to remain within the Limits of Work. All trees and shrubs to be removed shall be "fenced off" and no materials or heavy equipment shall encroach fenced areas during demolition and construction.

Contractor shall remove and dispose of all debris in a legal manner.

Contractor shall maintain dust control with water at all times. Water installation and water control are the responsibility of the Contractor.

The use of explosives is prohibited on this project.

Cuts, blemishes, new holes, etc. are to be protected from debris and sedimentation during demolition. Install filter fabric under all cuts/changes on or off site that receive storm water from the site before any demolition or earthwork activities commence.

Variety of trees to be removed with Landscape Architect/Engineer in field prior to felling.

If any discrepancy occur between Contract Documents and site condition during demolition, contact Architect/Engineer immediately.

All signs, standards, and barricades shall conform to MDOT Standard Detail Sheets and the Indiana Manual on Uniform Traffic Control Devices.

It is the responsibility of the Contractor to coordinate planned construction activities with the County Highway Department and Local Street Department prior to construction.

If construction activities are expected to disrupt normal off-site traffic flow, the Contractor shall be responsible for coordinating with the County Highway Department and the Local Street Department and prepare all requirements of traffic signs and signals.

Normal site traffic circulation to be maintained during construction. Contractor to erect barricades as needed to protect construction area from normal traffic patterns during the existing facilities.

If existing traffic circulation patterns around existing facilities will be disrupted or blocked, Contractor shall submit a traffic plan and obtain written approval from localities/Engineer before proceeding.

Do not make any drawing for determining exact layout information.

Contractor shall visit and verify all dimensions in field prior to initiation of any construction. Review any discrepancies immediately with the Landscape Architect/Engineer for resolution.

All layout landmarks shall be staked out in the field by the Contractor. Obtain Landscape Architect/Engineer approval before starting construction.

All dimensions in curved areas shall be to face of curb. All dimensions in areas without curbing shall be to edge of pavement. All dimensions in straight areas shall be to face of curb. All dimensions from building shall be from face of building.

All dimensions are parallel and perpendicular to base lines, property lines or building lines unless otherwise noted.

All radii indicated shall be formed as circular arcs. All curves and arcs shall intersect other curves and lines at points of tangency to form smooth transitions unless clearly shown otherwise.

Where not shown, sidewalk and retaining wall separation joints shall be 30'-0" O.C. and control joints 5'-0" O.C. maximum spacing. Curb separation joints shall be 30'-0" O.C. and control joints shall align with adjacent sidewalk edges, asphalt expansion joints, and concrete expansion joints.

All walls shall require medium loose-angled finish perpendicular to direction of traffic flow unless otherwise noted. Coordinate junctions with Landscape Architect/Engineer in field, unless otherwise noted.

Assemble curbs and algeps shall be in accordance with Federal, State, County, City, and Local codes whichever has jurisdiction. See Site Plans for locations and Site Details for specifications.

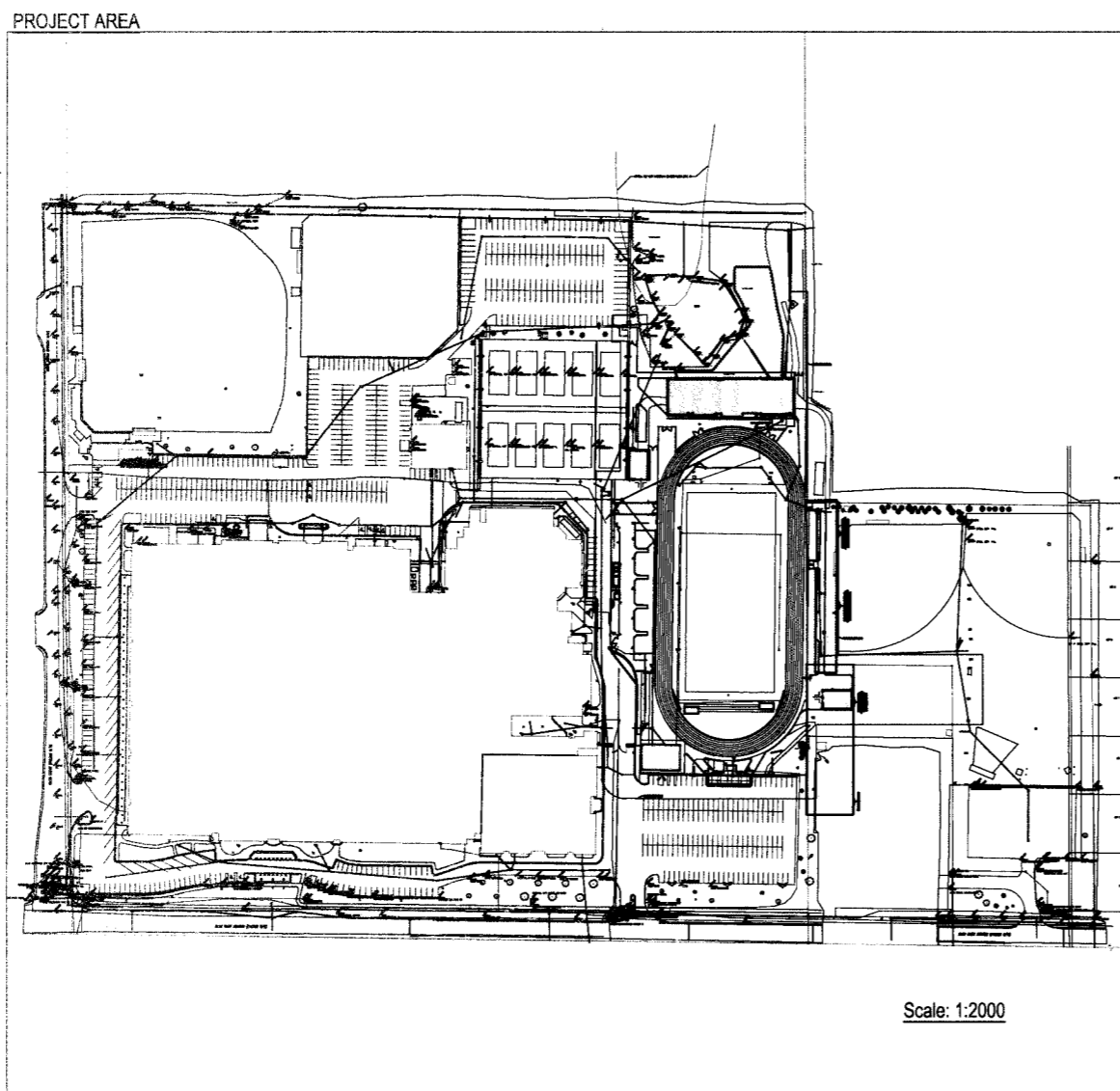
Painting striping conforming with acceptable parking stalls and loading zones are to be 6" wide painted bars. All other striping is to be 4" wide painted bars.

Refer to Architectural Drawings for all building dimensions.

Refer to Planting Plans for layout of all trees, shrubs, planting beds and extent of all sodding and seeding.

Acceler.	Acceleration
Add.	Addendum
Adj.	Adjunct
Al.	Alumina
Approx.	Approximately
Arch.	Architectural
Cd.	Carpenter
Cd.	Cost in place
C.E.	Civil Engineer
Cl.	Center line
CMU	Concrete masonry unit
Conc.	Concrete
CJ	Control joint
Decont.	Decontamination
Demo.	Demolition
Del.	Delivery
Di.	Diameter
Elev.	Elevation
El.	Electrical
EQ	Equal distance
Exd.	Excavating
Exp.	Expansion
Exp.	Expansion joint
F	Face of wall
FFE	Finish floor elevation
G	Gauge
H	Height
HDPE	High Density Polyethylene
In./In Ft.	inches per linear foot
In.	inside dimension or dimension inward
L.A.	Los Angeles Architect
L.V.	Landscape
Mach.	Machinery
Med.	Medium
Min.	Minimum
N/A	Not applicable
O.C.	On center
O.D.	Outside dimension
Pap.	Paperweight
P.D.B.	Point of beginning
Plc	Polychlorinated biphenyls
R	Radius
Ref.	Reference
Reinf.	Reinforcing
Req'd	Required
RFP	Request for proposals
Sas.	Safety
Sh.	Shelf
Sil.	Sill
SLOPP	Smooth Lead Corrugated Plastic Pipe
Sq.	Square
Sta	Station point
Struct.	Structural
Th	Thermal
TBS	To be selected
Typ.	Typical
Vert.	Vertical
VF	Vertically
W/o	With
W	without
W/W	Woven wire fabric
W/W	Woven wire mesh

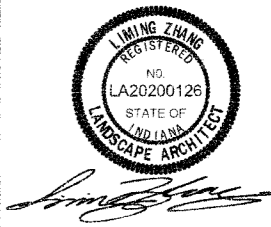
	Demarcation note
	Plan note
	Plant note
	Detail reference
	Section reference
	Proposed spot elevation Note and Mark
	Proposed contour
	Top of curb Edge of pavement
	Top of curb Run
	Match existing elevation
	Elevation target
	Storm structure number
	Sewer sewer structure number
	Coordinate Reference Point



Scale: 1:2000



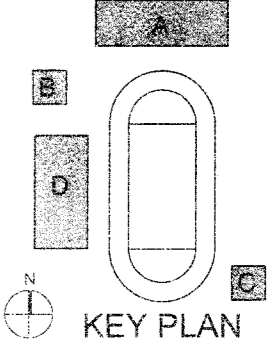
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Project Date 04-18-2016
Prepared JLS



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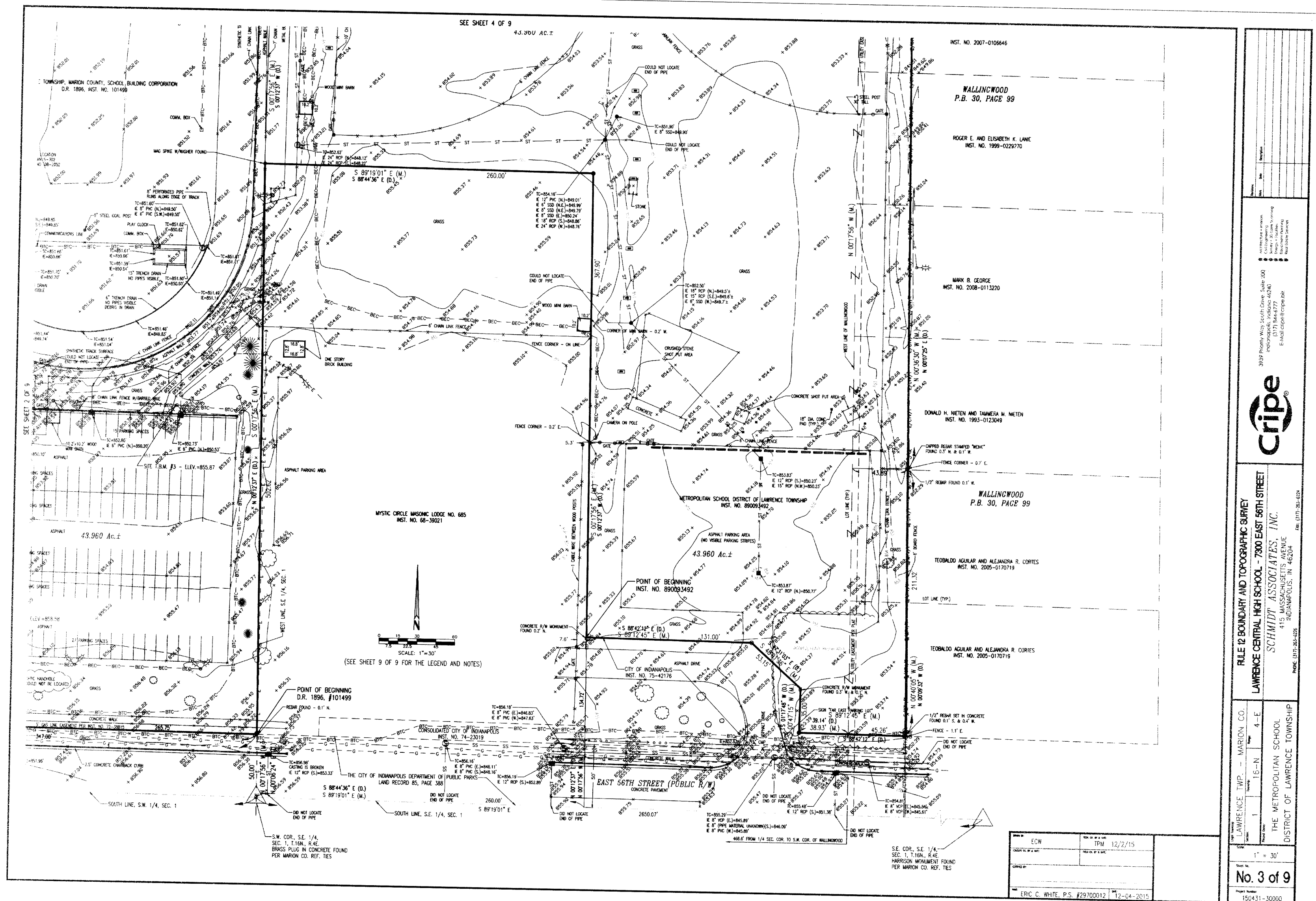
#	Revision	Date
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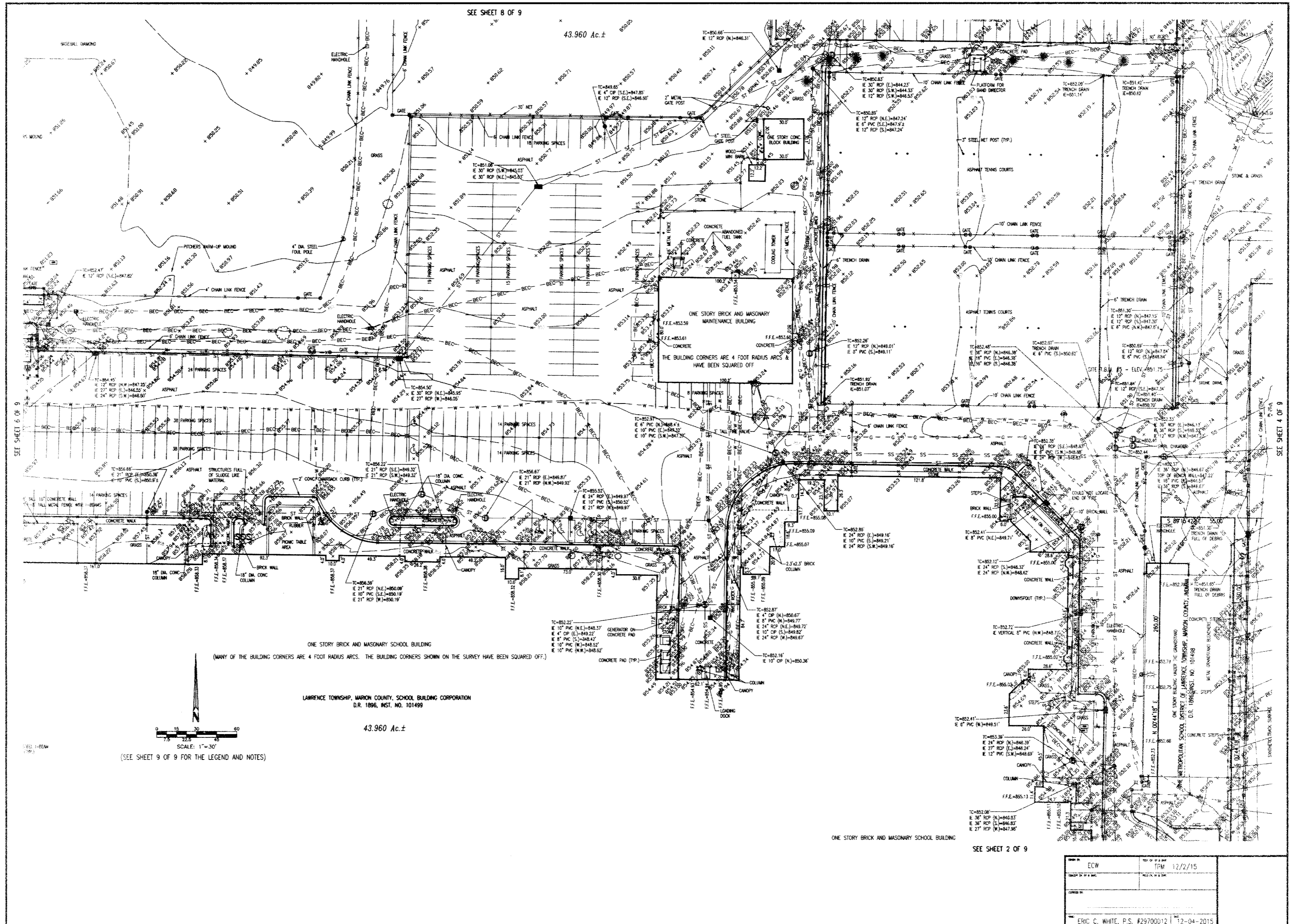
7300 E 56th Street
Indianapolis, IN 46226

MSD OF
LAWRENCE
TOWNSHIP

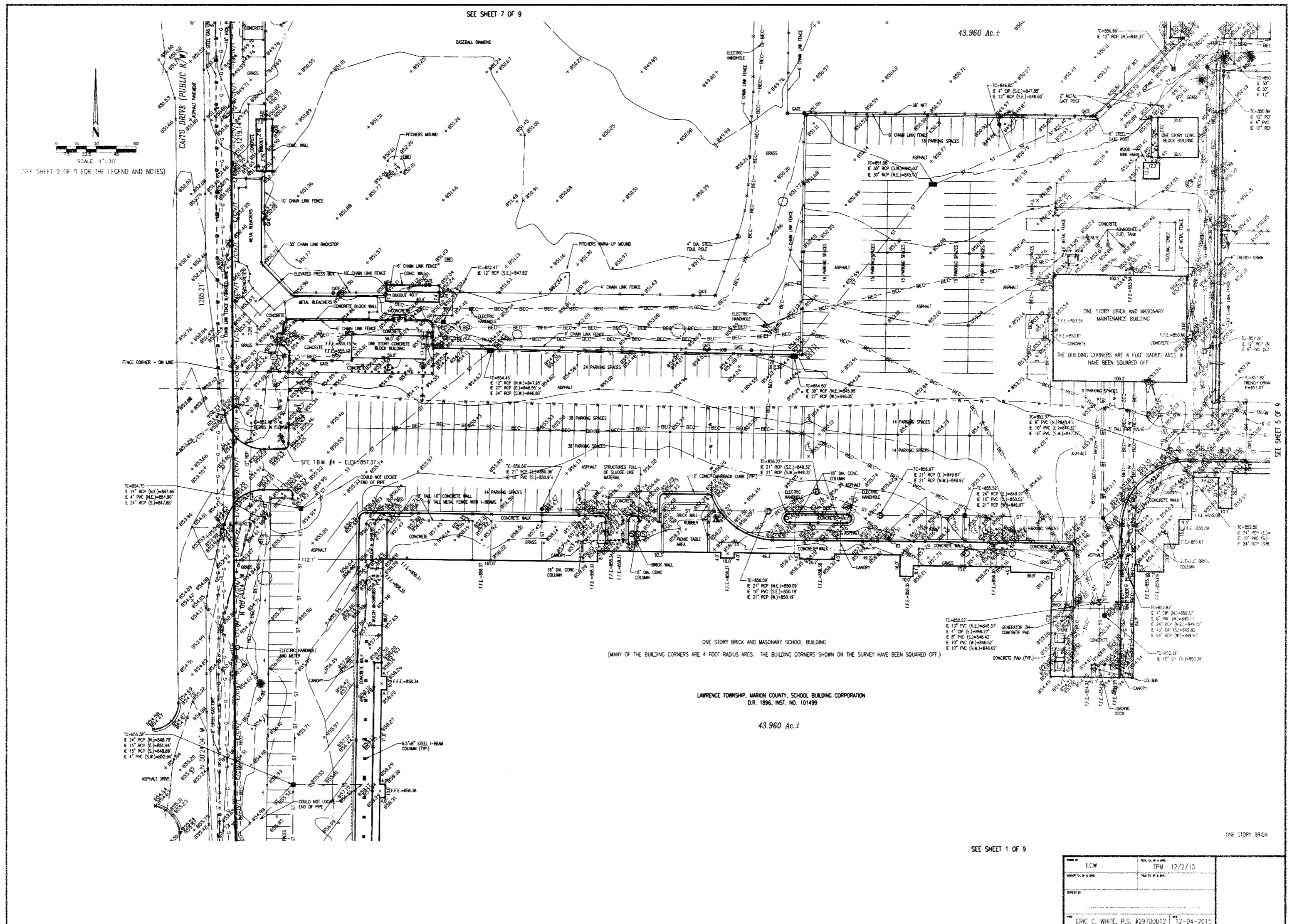
LC EXTERIOR
FACILITY
UPGRADES - BP2

GENERAL NOTES &
ABBREVIATIONS
C-001

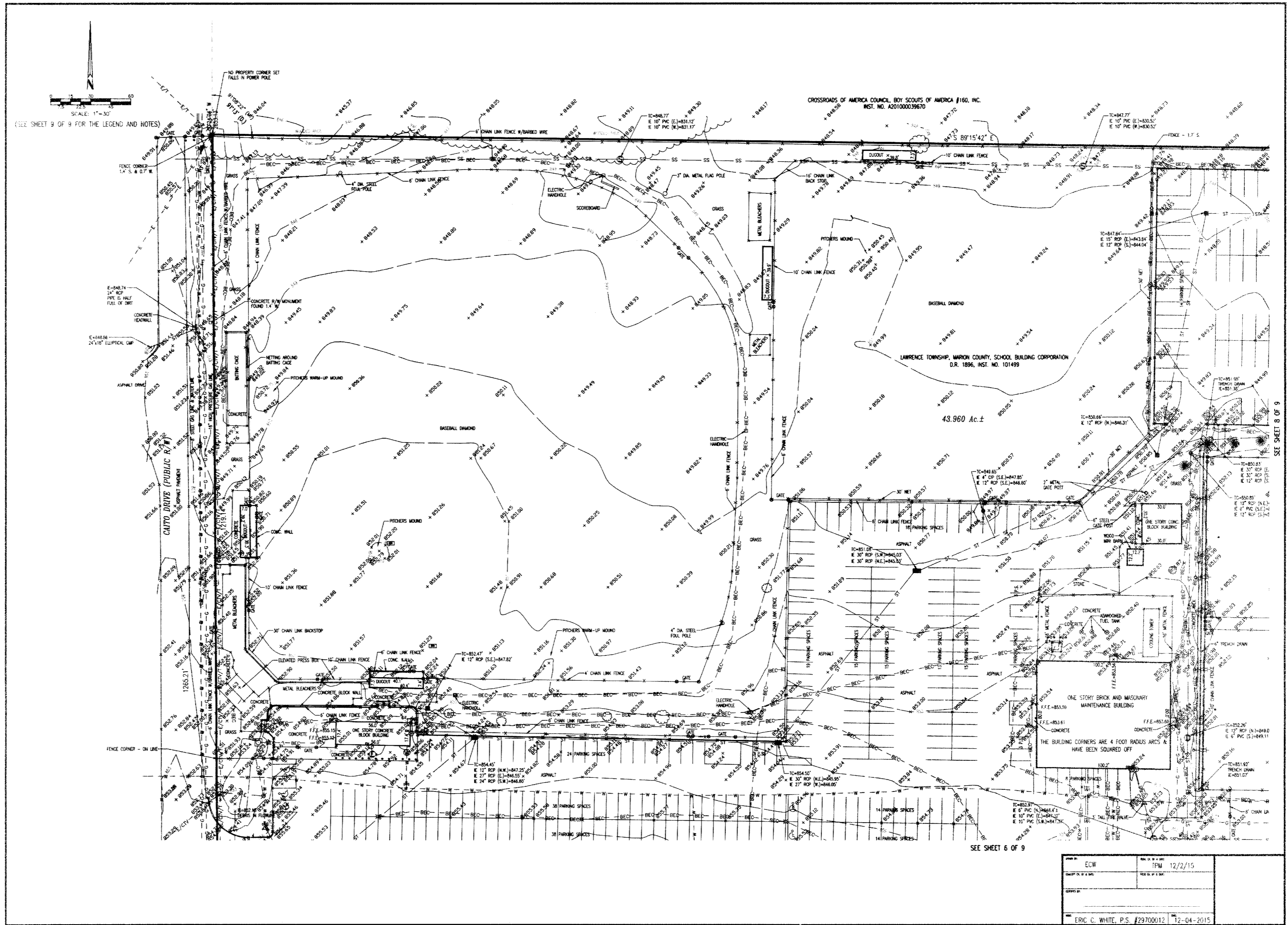




<p>3939 Prairie Way South Drive, Suite 200 Indianapolis, Indiana 46240 E-Mail: info@cripe.com Phone: (317) 251-4020</p>	
<p>cripe</p>	
<p>RULE 12 BOUNDARY AND TOPOGRAPHIC SURVEY LAWRENCE CENTRAL HIGH SCHOOL - 7300 EAST 56TH STREET SCHMIDT ASSOCIATES, INC. 415 MASSACHUSETTS AVENUE INDIANAPOLIS, IN 46204 PHONE: (317) 251-4020</p>	
<p>LAWRENCE TWP. - MARION CO. 16-N 4-E</p>	<p>THE METROPOLITAN SCHOOL DISTRICT OF LAWRENCE TOWNSHIP</p>
<p>No. 5 of 9</p>	



Cripe	
3939 Phyllis Way South Drive, Suite 200 Indianapolis, Indiana 46240 Phone: (317) 362-6228 Fax: (317) 362-6224	
RULE 12 BOUNDARY AND TOPOGRAPHIC SURVEY LAWRENCE TWP. - MARION CO. 16-N 4-E THE METROPOLITAN SCHOOL DISTRICT OF LAWRENCE TOWNSHIP	
SCHMIDT ASSOCIATES, INC. 415 MASSACHUSETTS AVENUE INDIANAPOLIS, IN 46204 PHONE: (317) 362-6228	
No. 6 of 9 150431-30000	



150431-30000

No. 7 of 9

1" = 30'

16'-N

4'-E

LAWRENCE TWP. - MARION CO.

LAWRENCE CENTRAL HIGH SCHOOL - 7300 EAST 56TH STREET

SCHMIDT ASSOCIATES, INC.

415 SCHMIDT AVENUE

INDIANAPOLIS, IN 46204

PHONE (317) 345-5635

FAX (317) 345-5625

PROJECT NO. 150431-30000

DATE 12/2/15

BY ERIC C. WHITE, P.S. #29700012

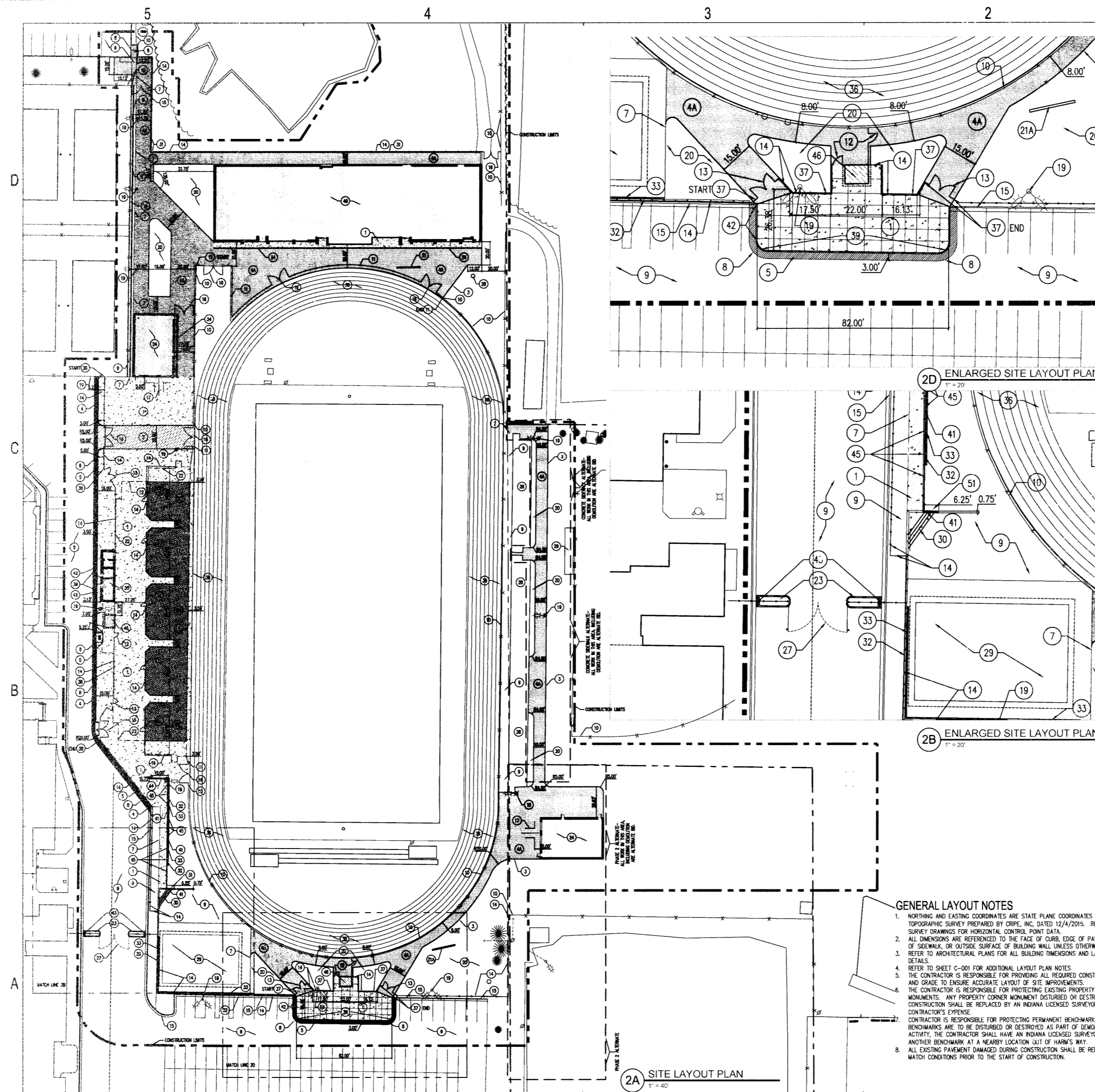
12-04-2015

ERIC C. WHITE, P.S. #29700012

12-04-2015

150431-30000

No. 7 of 9



General Notes

1. ALL RADII SHALL BE 5'-0" UNLESS OTHERWISE NOTED.
2. REFERENCE C-001 FOR GENERAL LAYOUT PLAN NOTES.
3. NOT ALL NOTES MAY APPLY TO THIS SHEET.

Layout Notes

1. STANDARD CONCRETE PAVEMENT. SEE DETAIL 1A/C/L 501.
2. HEAVY DUTY CONCRETE PAVEMENT. SEE DETAIL 1B/C/L 501.
3. NO CURB ALONG EDGE OF PAVEMENT.
4. INTEGRAL CONCRETE 6" CURB & SIDEWALK. SEE DETAIL 1D/C/L 501.
- 4A. STANDARD ASPHALT. SEE DETAIL 2A/C/L 501.
5. HEAVY DUTY ASPHALT PAVEMENT. SEE DETAIL 2B/C/L 501.
6. ADA ACCESSIBLE RAMP. SEE DETAIL 2C/C/L 501.
7. MATCH EXISTING STANDARD CONCRETE PROFILE AND GRADE.
8. MATCH EXISTING HEAVY DUTY ASPHALT PROFILE AND GRADE.
9. EXISTING PAVEMENT TO REMAIN, CONTRACTOR TO PROTECT DURING CONSTRUCTION.
10. EXISTING CHAIN LINK FENCE TO REMAIN, CONTRACTOR TO PROTECT DURING CONSTRUCTION.
11. BASE BID: RETAIN 4" HIGH CHAIN LINK FENCE AND TRACK APRON. MODIFY FENCE TO INSTALL NEW GATES. ALT BID: REPLACE ENTIRE 4" HIGH CHAIN LINK FENCE WITH NEW 4" FENCE, 3' FROM LANE LINE AND REPLACE ASPHALT TRACK APRON. SEE SPECS.
12. 4" WIDE SINGLE LEAF SWING GATE. MATCH ADJACENT FENCE. SEE SPECS.
13. 10' WIDE 6" H.T. DOUBLE LEAF SWING GATE. MATCH ADJACENT FENCE. SEE SPECS.
14. 8" HIGH CHAIN LINK FENCE WITH BLACK VINYL COATING. SEE SPECS.
15. EXISTING 6" CONCRETE CURB TO REMAIN. PROTECT DURING CONSTRUCTION.
16. 6" WIDE DOUBLE LEAF SWING GATE. HEIGHT TO MATCH ADJACENT FENCE. SEE SPECS.
17. PIPE HAND RAILS. SEE DETAIL 3D/C/L 501.
18. PROPOSED ATHLETIC LIGHTING FIXTURE. SEE ELECTRICAL SITE PLAN AND DETAILS.
19. EXISTING LIGHT POLE AND FIXTURE TO REMAIN. PROTECT DURING CONSTRUCTION.
20. PERMANENT TURF SEEDING. SEE SPECS.
21. EXISTING SCOREBOARD TO REMAIN (BASE BID). PROTECT DURING CONSTRUCTION.
- 21A. ALT BID: RELOCATED SCOREBOARD.
22. PROPOSED GRANDSTAND AND PRESSBOX. SEE SHEETS CL 503-CL 511.
23. STRAIGHT CURB. SEE DETAIL 3B/C/L 501.
24. PROPOSED RESTROOM/CONCESSION BUILDING. SEE ARCH PLANS.
25. STANDARD STONE PAVING. SEE DETAIL 2C/C/L 501.
26. EXISTING VISITOR GRANDSTANDS.
27. PROPOSED DOUBLE SWING CONTROL GATE 24' OPENING. SEE DETAIL 4A/C/L 502.
28. RELOCATED FLAG POLE. SEE DETAIL 1A/C/L 502.
29. EXISTING BUILDING TO REMAIN.
30. CONCRETE STAIRS AND METAL HANDRAIL. SEE DETAIL 4C/C/L 502.
31. PROPOSED RETAINING WALL WITH FENCE. SEE DETAIL 3A/C/L 502.
32. EXISTING RETAINING WALL. PROTECT DURING CONSTRUCTION.
33. EXISTING TRENCH DRAIN. PROTECT DURING CONSTRUCTION.
34. PROPOSED TRENCH DRAIN. SEE UTILITY DETAILS CU 501.
35. PROPOSED GRANDSTAND ELEVATOR AND MECHANICAL BUILDING. SEE ARCH PLANS.
36. EXISTING TRACK TO REMAIN. PROTECT DURING CONSTRUCTION. REPAIR IF DAMAGED.
37. ALT BID: SUBSTITUTE 6" CL FENCE FOR 6" DECORATIVE METAL FENCE. SEE SPECS.
38. ALT BID: SUBSTITUTE 6" CL FENCE FOR 6" DECORATIVE METAL FENCE. SEE SPECS.
39. DEEPENED CONCRETE CURB. SEE DETAIL 4B/C/L 501.
40. PIPE HAND RAIL ON TOP OF EXISTING WALL. USE EXISTING FENCE POSTS FOR RAIL. SEE DETAIL 5D/C/L 502.
42. DEEPENED CURB TRANSITION. SEE DETAIL 4C/C/L 501.
43. CONCRETE ISLAND DRAINAGE WAY. SEE DETAIL 5A/C/L 501.
44. PROPOSED RETAINING WALL WITH RAIL. SEE DETAIL 3A/C/L 502.
45. PROPOSED HANDRAIL POST. SPACING HALF-WAY BETWEEN EXISTING FENCE RAIL POSTS. SEE DETAIL 5D/C/L 502.
46. PRE-FABRICATED TICKET BOOTH BUILDING. SPECIAL PAVEMENT SLAB REQ'D. SEE DETAIL 4B/C/L 501 & ARCH PLANS.
47. BASE BID: STANDARD ASPHALT PAVEMENT. SEE DETAIL 4A/C/L 501.
ALT BID: STANDARD CONCRETE PAVEMENT. SEE DETAIL 1A/C/L 501.
48. EXISTING METAL BELL. PROTECT DURING CONSTRUCTION.
49. PROPOSED END ZONE ATHLETIC BUILDING. SEE ARCH PLANS.
50. REMOVABLE BOLLARDS. SEE SPECS.
51. 3" DIA. WEEP HOLE CROSSES THE CONCRETE WALL AT GROUND SURFACE.

LAYOUT LEGEND

- STANDARD CONCRETE PAVEMENT. SEE DETAIL 1A/C/L 501.
- HEAVY DUTY CONCRETE PAVEMENT. SEE DETAIL 1B/C/L 501.
- GRAVEL. SEE DETAIL 2C/C/L 501.
- STANDARD ASPHALT PAVEMENT. SEE DETAIL 2A/C/L 501.
- HEAVY DUTY ASPHALT PAVEMENT. SEE DETAIL 2B/C/L 501.

TYP
HOR
R

TYPICAL OF MULTIPLE AREAS
HANDICAP ACCESS RAMP
RADIUS

GENERAL LAYOUT NOTES

1. NORTHING AND EASTING COORDINATES ARE STATE PLANE COORDINATES BASED ON A TOPOGRAPHIC SURVEY PREPARED BY CRPE, INC. DATED 12/4/2015. REFER TO SURVEY DRAWINGS FOR HORIZONTAL CONTROL POINT DATA.
2. ALL DIMENSIONS ARE REFERENCED TO THE FACE OF CURB, EDGE OF PAVEMENT, EDGE OF SIDEWALK, OR OUTSIDE SURFACE OF BUILDING WALL, UNLESS OTHERWISE NOTED.
3. REFER TO ARCHITECTURAL PLANS FOR ALL BUILDING DIMENSIONS AND LAYOUT DETAILS.
4. REFER TO SHEET C-001 FOR ADDITIONAL LAYOUT PLAN NOTES.
5. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL REQUIRED CONSTRUCTION LINE AND GRADE TO ENSURE ACCURATE LAYOUT OF SITE IMPROVEMENTS.
6. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING EXISTING PROPERTY CORNER MONUMENTS. ANY PROPERTY CORNER MONUMENT DISTURBED OR DESTROYED DURING CONSTRUCTION SHALL BE REPLACED BY AN INDIANA LICENSED SURVEYOR AT CONTRACTOR'S EXPENSE.
7. CONTRACTOR IS RESPONSIBLE FOR PROTECTING PERMANENT BENCHMARKS. IF BENCHMARKS ARE TO BE DISTURBED OR DESTROYED AS PART OF REMEDIATION ACTIVITY, THE CONTRACTOR SHALL HAVE AN INDIANA LICENSED SURVEYOR ESTABLISH ANOTHER BENCHMARK AT A NEARBY LOCATION OUT OF HAWNS WAY.
8. ALL EXISTING PAVEMENT DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED TO MATCH CONDITIONS PRIOR TO THE START OF CONSTRUCTION.

SCHMIDT
ASSOCIATES
415 Massachusetts Avenue
Indianapolis, Indiana 46204
www.schmidt-arch.com

Project No. 2015-121 LCS
Project Date 04-18-2018
Produced JLS

REGISTERED PROFESSIONAL ARCHITECT
NO. LA20200120
STATE OF INDIANA
LANDSCAPE ARCHITECT

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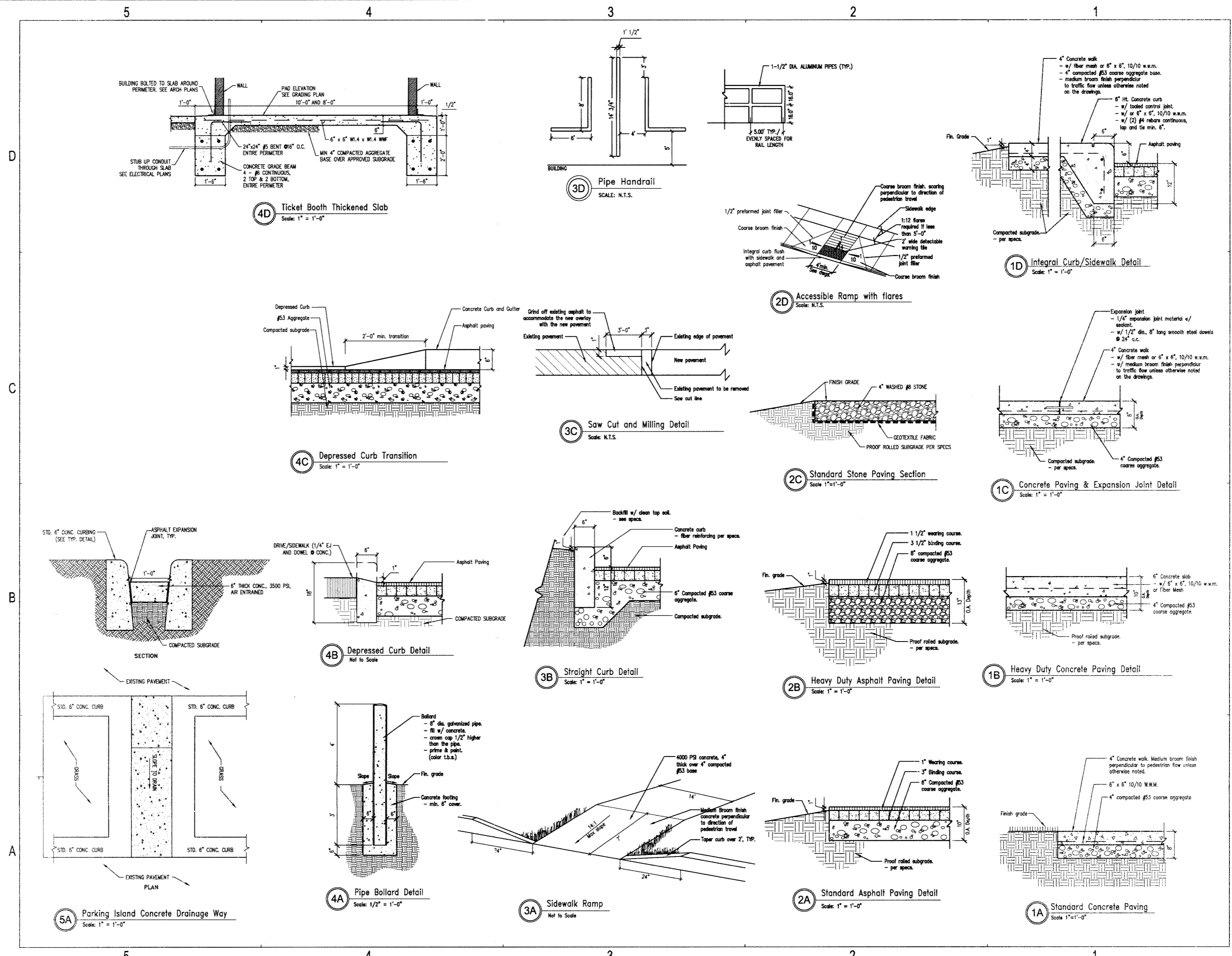
7300 E 56th Street
Indianapolis, IN 46226

KEY PLAN

MSD OF
LAWRENCE
TOWNSHIP

LC EXTERIOR
FACILITY
UPGRADES - BP2

SITE LAYOUT PLAN
CL101



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415 Massachusetts Avenue
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www.schmidt-arch.com

Project No: 2015-121 LCS
Project Date: 04-18-2016
Prepared: JLS

LIVING ZONE
REGISTERED
NO. LA20200126
STATE OF INDIANA
LANDSCAPE ARCHITECT

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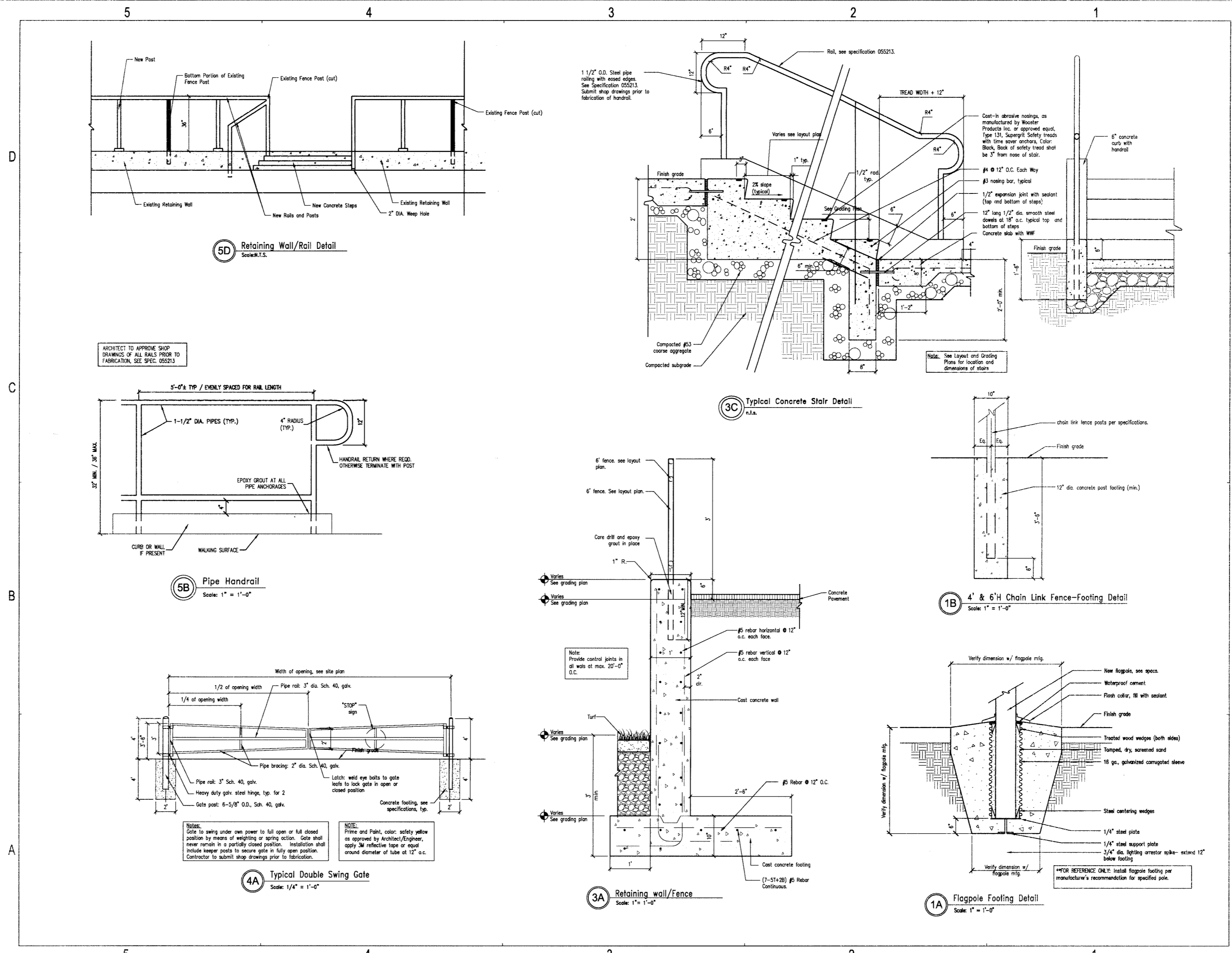
KEY PLAN

MSD OF LAWRENCE TOWNSHIP

LC EXTERIOR FACILITY UPGRADES - BP2

SITE DETAILS

CL501

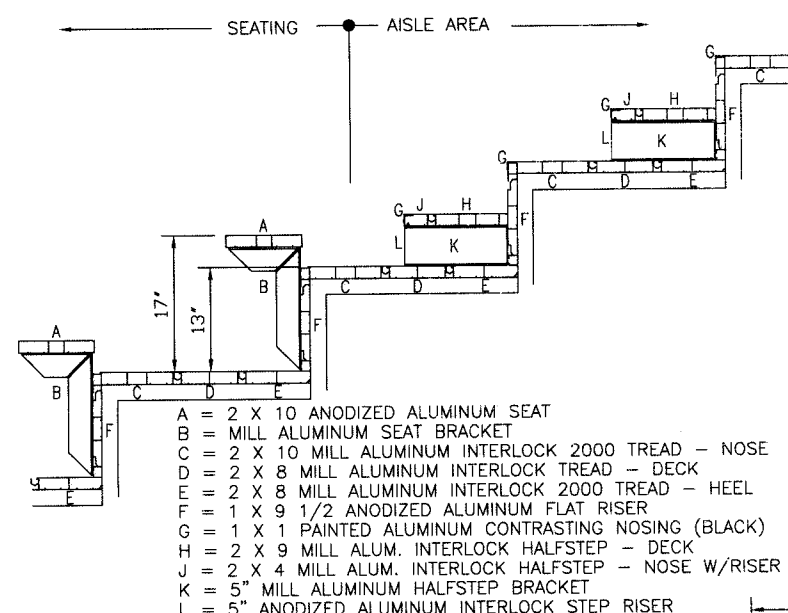


DESIGN LOADING

TREAD & SEAT AREA 100psf UNIFORM LIVE LOAD.
SEAT (VERTICAL) 120 lbs/lf
SEAT (HORIZONTAL SWAY) 24lbs/lf PARALLEL AND
10lbs/lf PERPENDICULAR TO SEAT.
HANDRAIL & GUARDRAIL 50 lbs/lf IN ANY DIRECTION.
HANDRAIL & GUARDRAIL 200 lbs CONCENTRATED IN ANY DIRECTION.
SNOW LOADS AS PER STATE ADOPTED CODE
WIND LOADS AS PER STATE ADOPTED CODE
SEISMIC LOADS AS PER STATE ADOPTED CODE

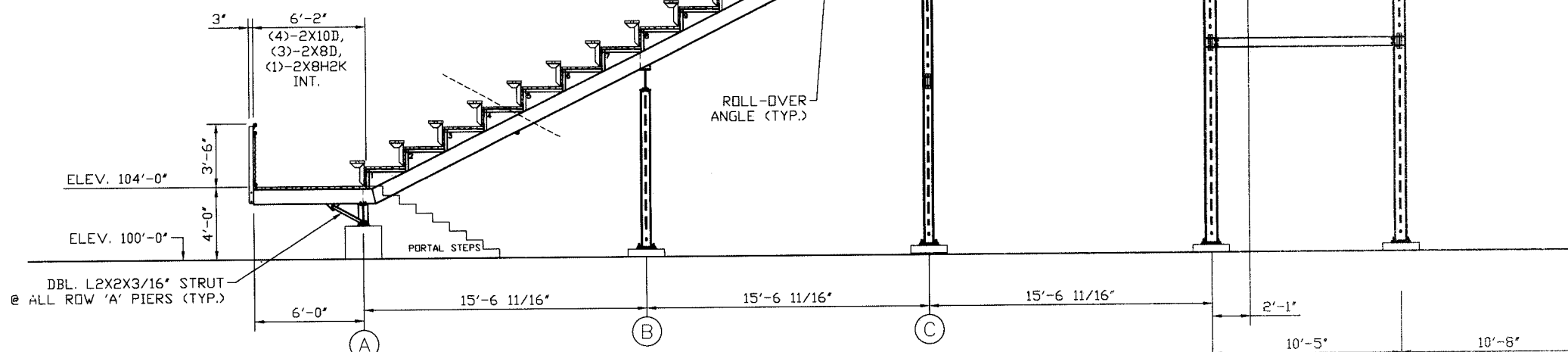
NOTES

- 1 ALL STRUCTURAL AND MISCELLANEOUS STEEL SHALL CONFORM TO THE FOLLOWING AISC STANDARDS
PLATE UP TO 1/2" THICK = A36
PLATE UNO. = A572 GRADE 50
ANGLE = A36/A36M GRADE 50
WIDE FLANGE = A992 Fy=50 ksi
CHANNEL = A36/A36M GRADE 50
ROD = A36/A529 GRADE 50
TUBE = A500 GRADE "B" 46 ksi
- 2 WELDS ARE ALL AROUND WITH TYPE ER70S-6 WIRE MIG.
- 3 ALL STEEL TO BE HOT DIPPED GALVANIZED TO A.S.T.M. A-123-B9 del.
- 4 STRUCTURAL BOLTS ARE HOT DIPPED GALV. AND ARE EQUAL TO OR GREATER THAN A-307.
- 5 NO CONNECTIONS UTILIZING HIGH STRENGTH BOLTS ARE CLASSIFIED AS SLIP CRITICAL.
- 6 ANODIZED ALUMINUM RAIL IS 1 1/4" NOMINAL PIPE SIZE. (1 5/8" O.D.)
- 7 THE COMPLETE BLEACHERS SHALL MEET OR EXCEED ADA REQUIREMENTS FOR QUANTITY OF ADA SEATING, ACCESS/EGRESS TO ADA SEATING, & DISPERSAL OF ADA SEATING.
- 8 ALL FIELD CONNECTIONS ARE NON-SLIP CRITICAL UNO. ALL CONNECTIONS ARE DESIGNED TO UTILIZE A307 BOLTS, IT IS ACCEPTABLE TO USE A325N BOLTS IN LIEU OF THE A307 BOLTS. THE INSTALLATION OF THESE BOLTS ARE TO BE TIGHTENED A SNUG TIGHT CONDITION AS SPECIFIED BY AISC.
- 9 THE ELEVATION OF 100'-0" IS USED AS A BASE ELEVATION. THIS IS FOR REFERENCE ONLY AND NOT TO BE USED AS THE ACTUAL ELEVATION.



2 PLANK ARRANGEMENT 12 1/2 NOT TO SCALE 13' X 26'

CENTRAL H.S. - HOME



SECTION @ PRESS BOX SCALE: 1/4" = 1'-0"

SCHMIDT



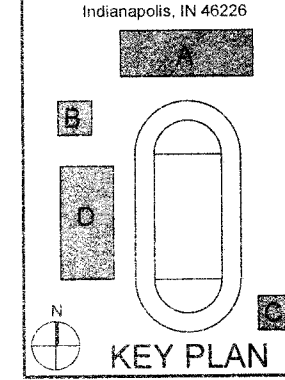
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Project No. 2015-121 LGS
Project Date 04-18-2016
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MSD OF
LAWRENCE
TOWNSHIP



LC EXTERIOR
FACILITY
UPGRADES - BP2

BLEACHER DETAILS

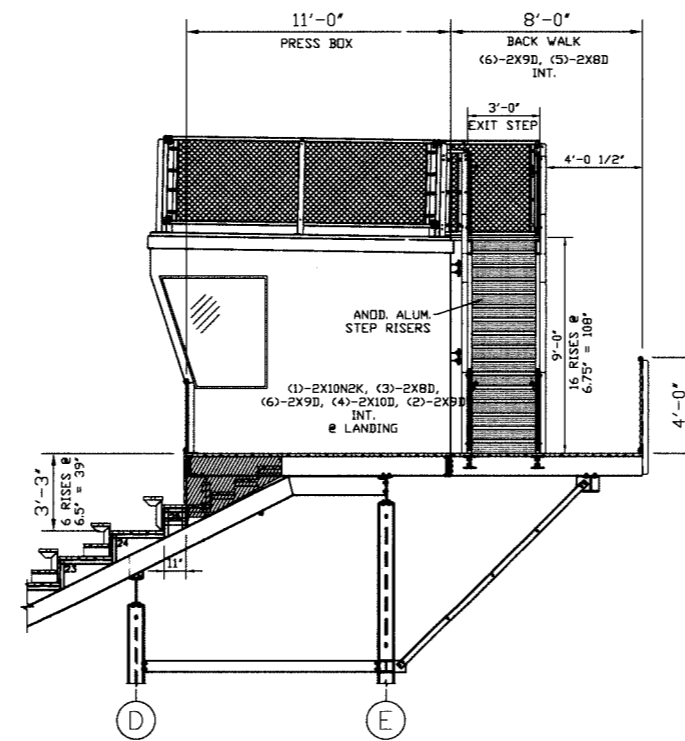
CL504

DESIGN LOADING

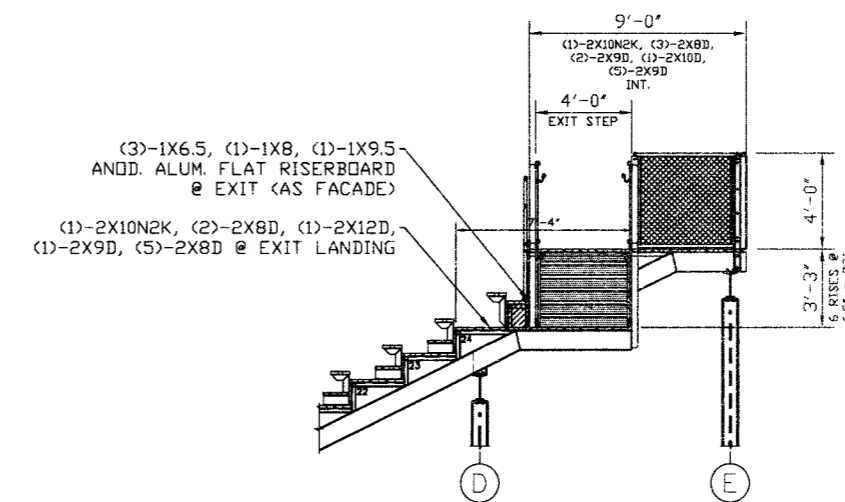
TREAD & SEAT AREA 100psf UNIFORM LIVE LOAD.
SEAT (VERTICAL) 120 lbs/lf.
SEAT (HORIZONTAL SWAY) 24lbs/lf PARALLEL AND
10lbs/lf PERPENDICULAR TO SEAT.
HANDRAIL & GUARDRAIL 50 lbs/lf IN ANY DIRECTION.
SNOW LOADS AS PER STATE ADOPTED CODE
WIND LOADS AS PER STATE ADOPTED CODE
SEISMIC LOADS AS PER STATE ADOPTED CODE

NOTES

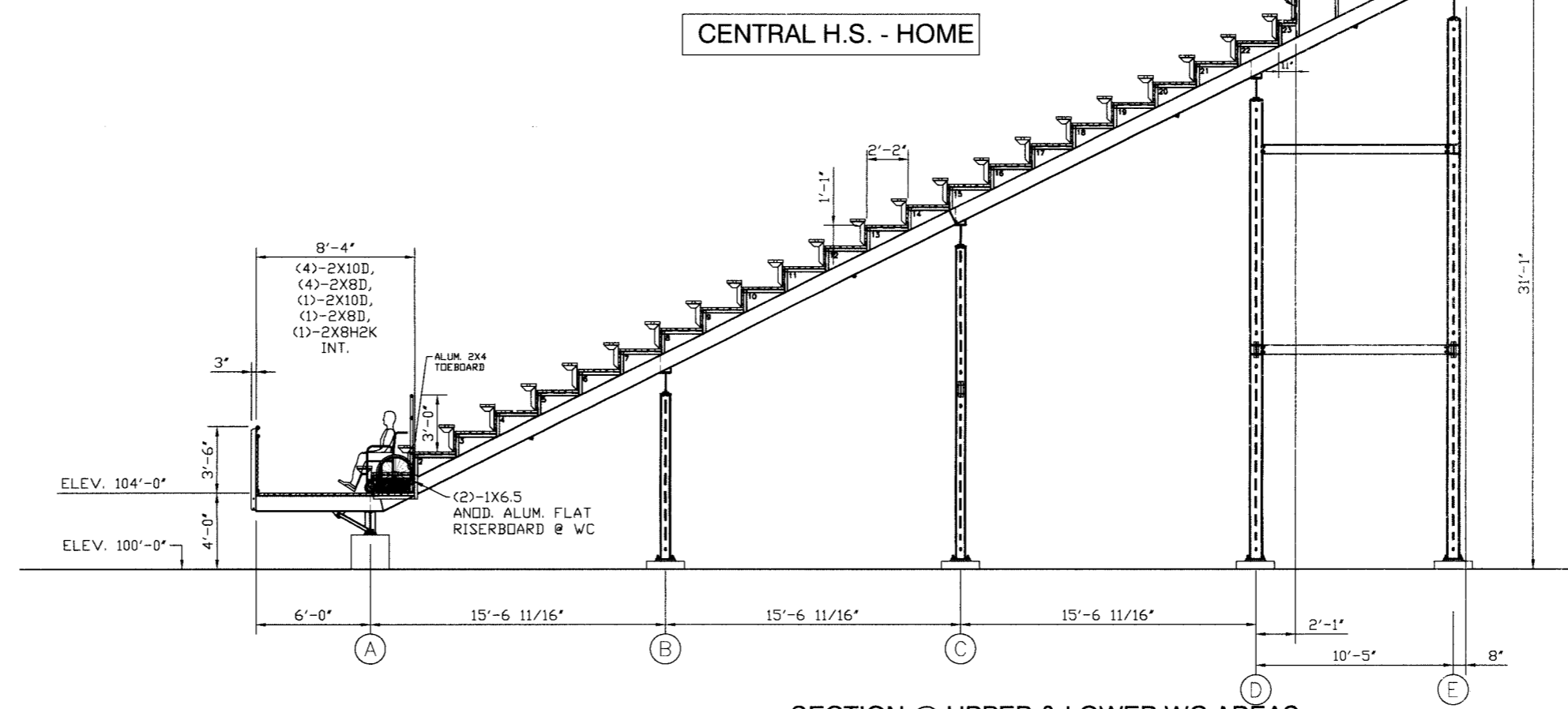
- ALL STRUCTURAL AND MISCELLANEOUS STEEL SHALL CONFORM TO THE FOLLOWING AISC STANDARDS
PLATE UP TO 1/2" THICK = A36
PLATE UND. = A572 GRADE 50
ANGLE = A36/A36M GRADE 50
WIDE FLANGE = A992 Fy=50 ksi
CHANNEL = A36/A36M GRADE 50
ROD = A36/A529 GRADE 50
TUBE = A500 GRADE "B" 46 ksi
- WELDS ARE ALL AROUND WITH TYPE ER70S-6 WIRE MIG.
- ALL STEEL TO BE HOT DIPPED GALVANIZED TO A.S.T.M. A-123-89 ael.
- STRUCTURAL BOLTS ARE HOT DIPPED GALV. AND ARE EQUAL TO OR GREATER THAN A-307.
- NO CONNECTIONS UTILIZING HIGH STRENGTH BOLTS ARE CLASSIFIED AS SLIP CRITICAL.
- ANODIZED ALUMINUM RAIL IS 1 1/4" NOMINAL PIPE SIZE, (1 5/8" I.D.)
- THE COMPLETE BLEACHERS SHALL MEET OR EXCEED ADA REQUIREMENTS FOR QUANTITY OF ADA SEATING, ACCESS/EGRESS TO ADA SEATING, & DISPERSAL OF ADA SEATING.
- ALL FIELD CONNECTIONS ARE NON-SLIP CRITICAL UND. ALL CONNECTIONS ARE DESIGNED TO UTILIZE A307 BOLTS, IT IS ACCEPTABLE TO USE A325N BOLTS IN LIEU OF THE A307 BOLTS. THE INSTALLATION OF THESE BOLTS ARE TO BE TIGHTENED A SNUG TIGHT CONDITION AS SPECIFIED BY AISC.
- THE ELEVATION OF 100'-0" IS USED AS A BASE ELEVATION. THIS IS FOR REFERENCE ONLY AND NOT TO BE USED AS THE ACTUAL ELEVATION.



END SECTION @ PRESS BOX
SCALE: 1/4" = 1'-0"



SECTION @ END CROSSWALK EXIT STEP
SCALE: 1/4" = 1'-0"



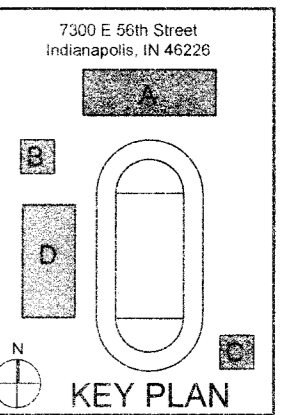
SECTION @ UPPER & LOWER WC AREAS
SCALE: 1/4" = 1'-0"

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Project Date 04-18-2016
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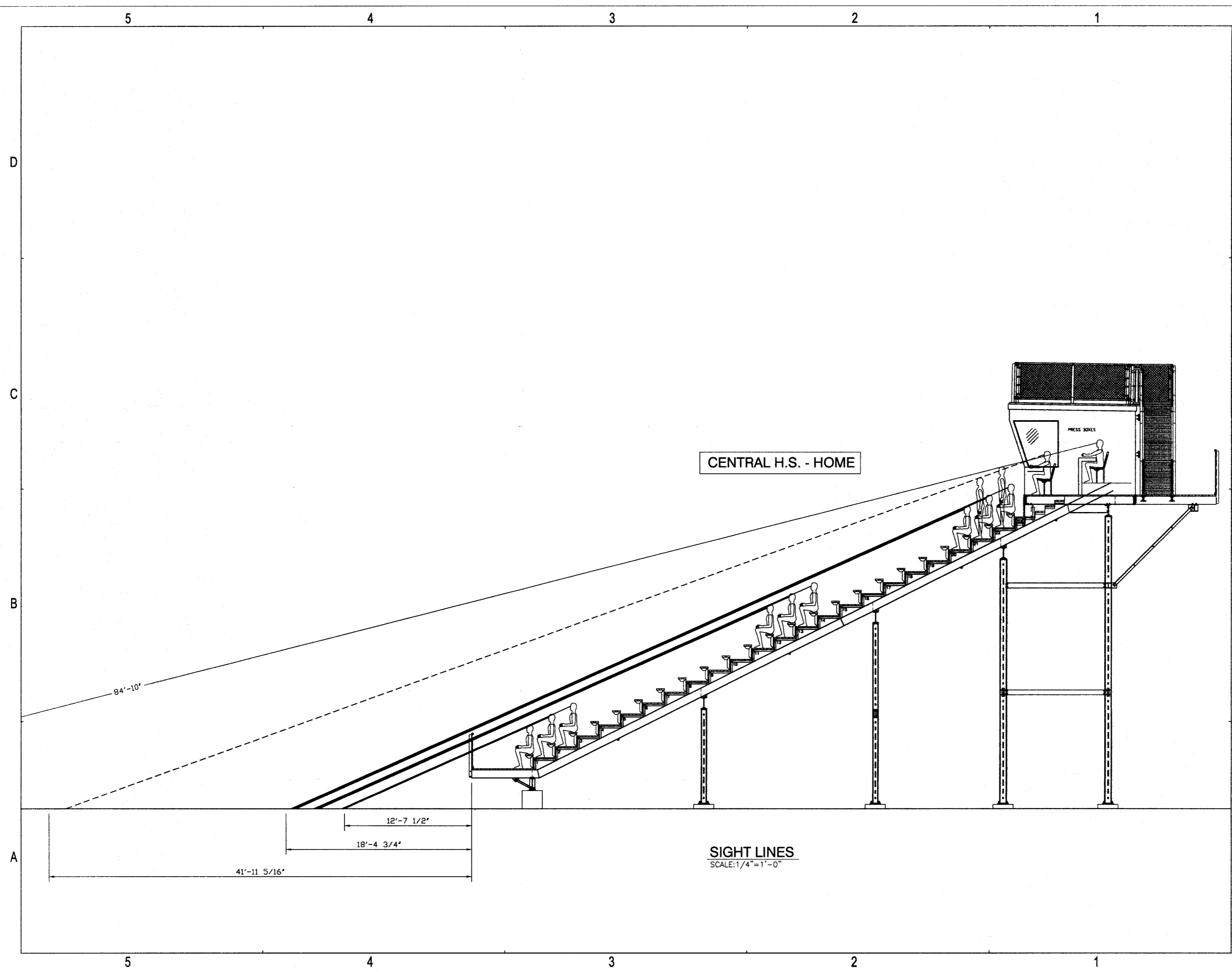
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MSD OF
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LC EXTERIOR
FACILITY
UPGRADES - BP2

BLEACHER DETAILS
CL505



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KEY PLAN

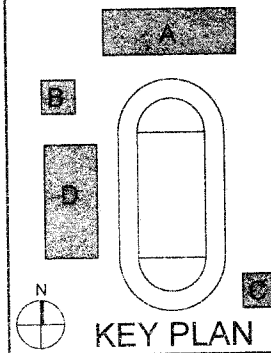
MSD OF LAWRENCE TOWNSHIP

LC EXTERIOR FACILITY UPGRADES - BP2

BLEACHER DETAILS
CL506

#	Revision	Date

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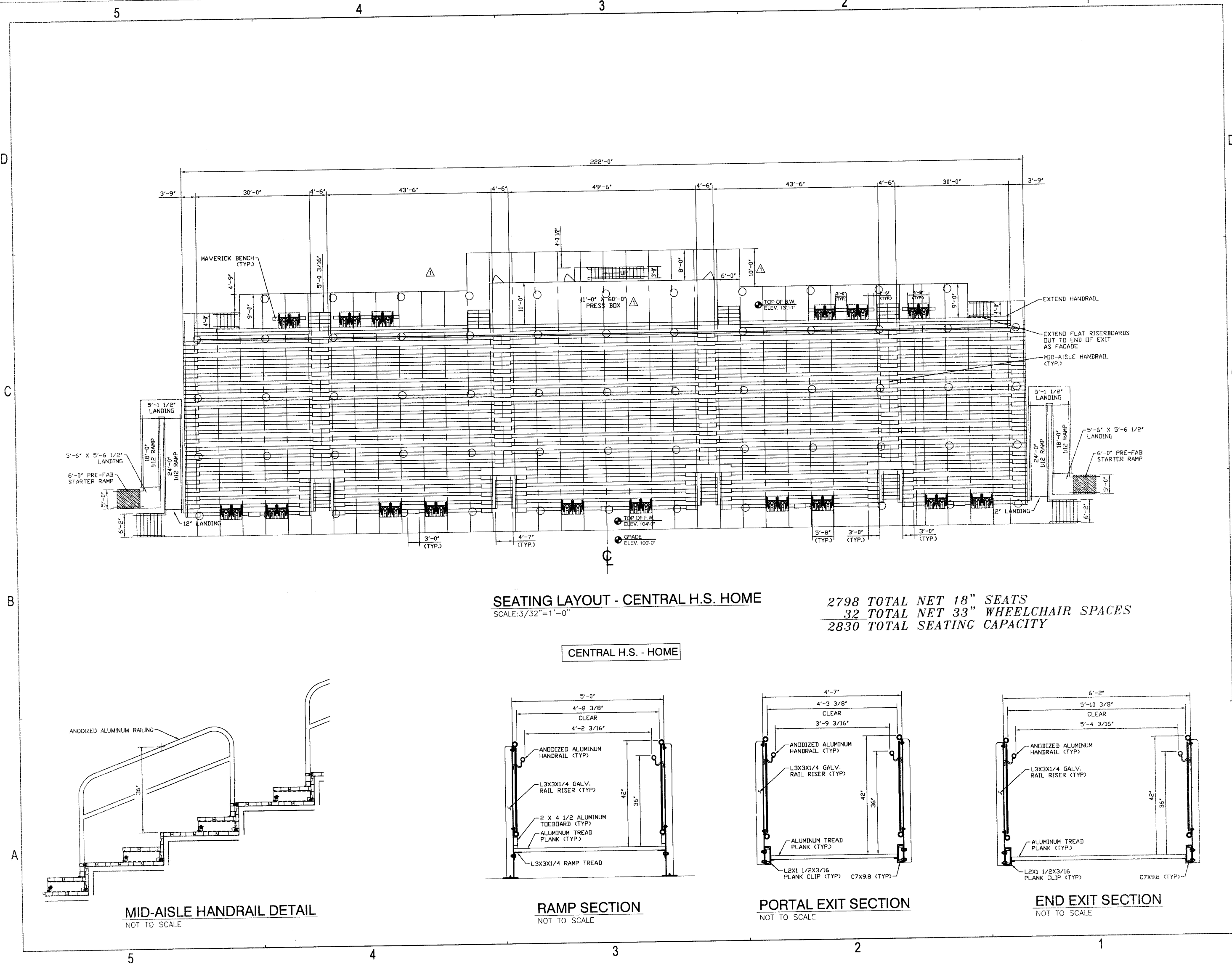
MSD OF
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TOWNSHIP

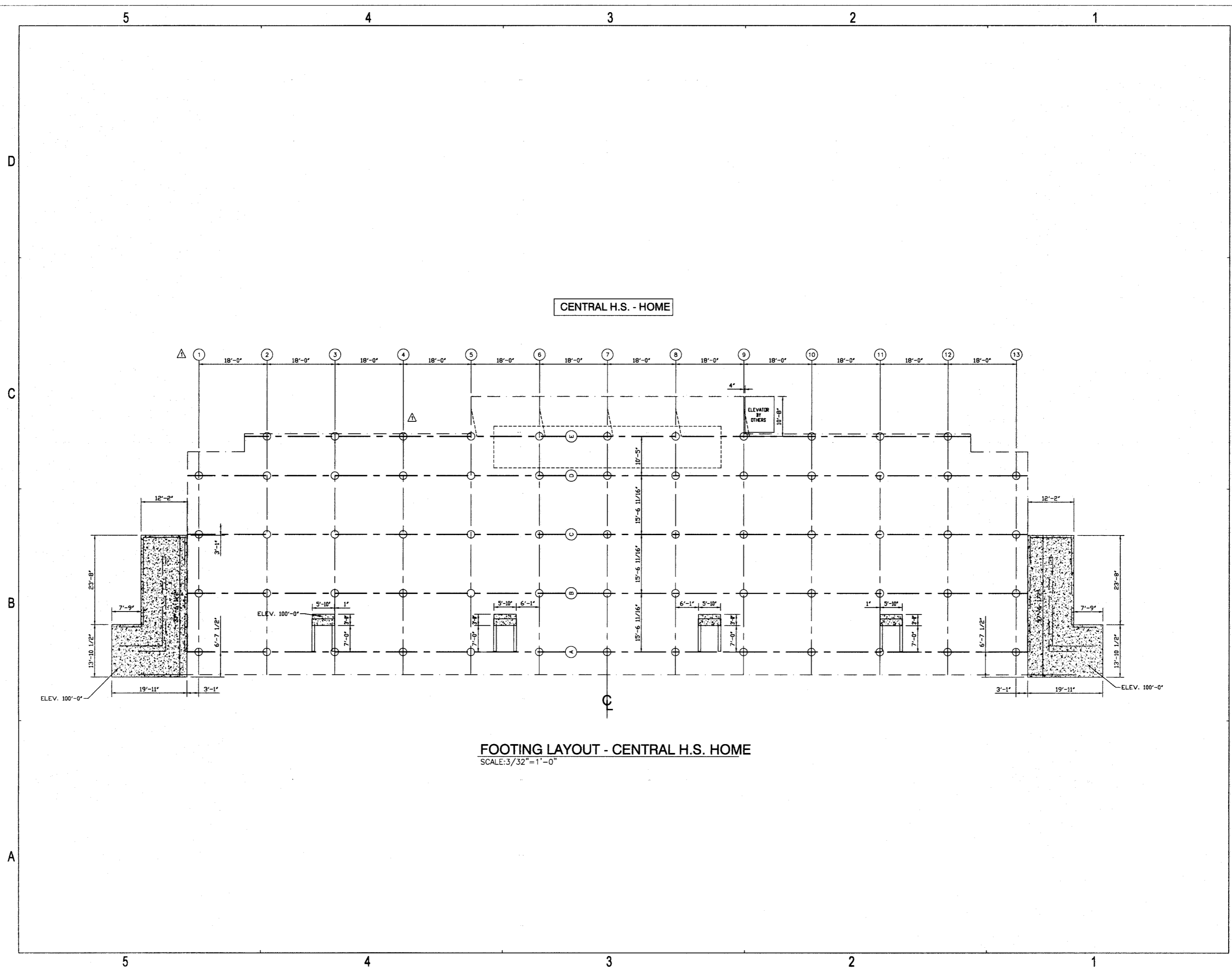


LC EXTERIOR
FACILITY
UPGRADES - BP2

BLEACHER DETAILS

CL507





CENTRAL H.S. - HOME

FOOTING LAYOUT - CENTRAL H.S. HOME
SCALE: 3/32" = 1'-0"

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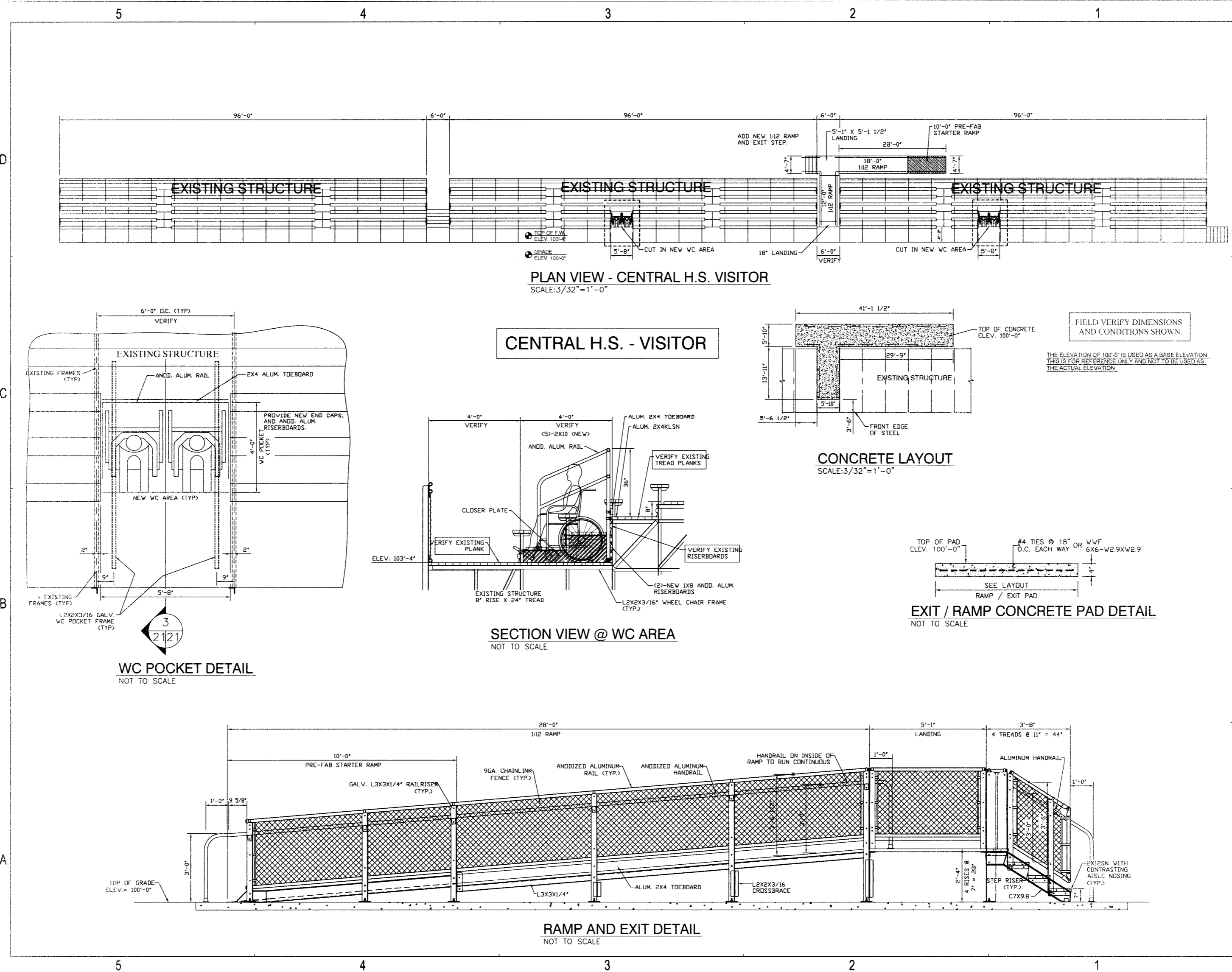
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KEY PLAN

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LC EXTERIOR
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UPGRADES - BP2

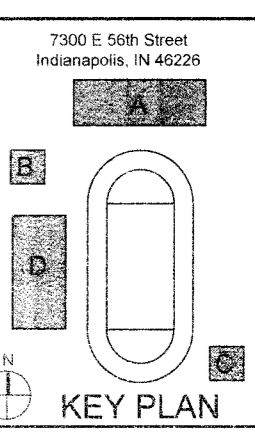
BLEACHER DETAILS
CL508



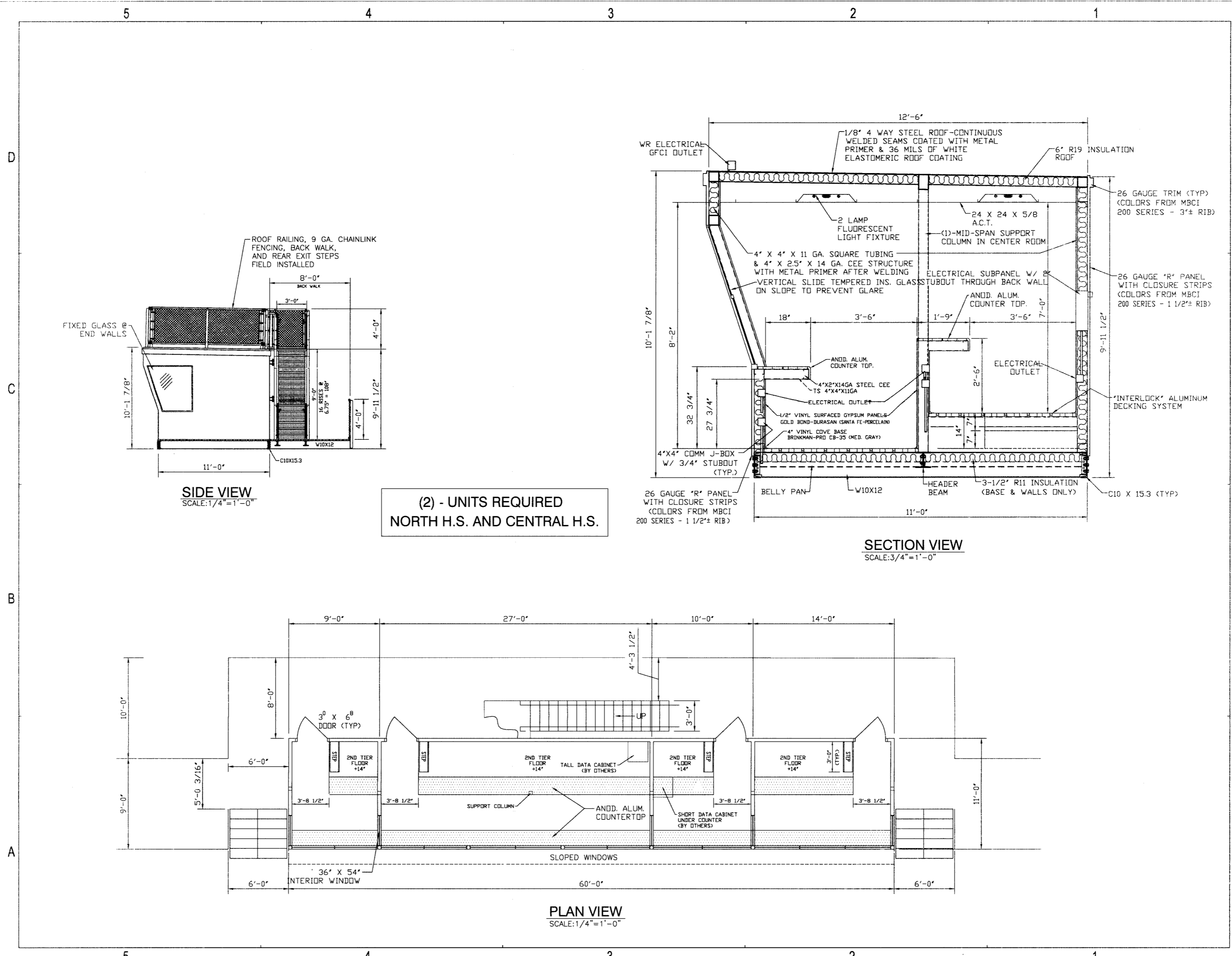
Project No. 2015-121 LCS
Project Date 04-18-2016
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BLEACHER DETAILS
CL509



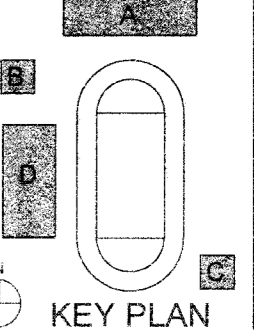
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#	Revision	Date
A-1	ADDENDUM 1	4.29.2016

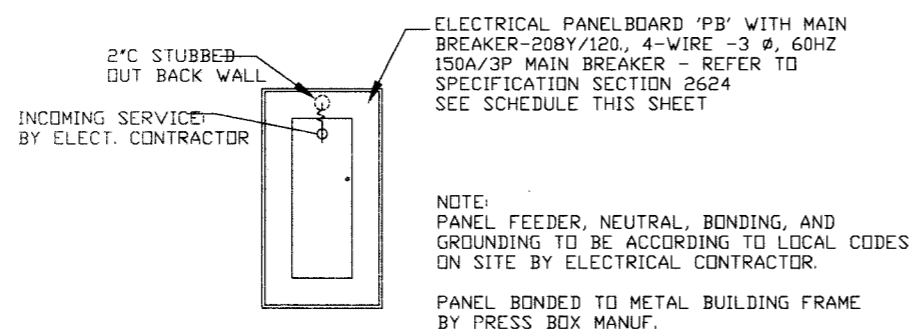
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**MSD OF
LAWRENCE
TOWNSHIP**

**LC EXTERIOR
FACILITY
UPGRADES - BP2**

BLEACHER DETAILS
CL510



(2) - UNITS REQUIRED
NORTH H.S. AND CENTRAL H.S.

2 ELECTRICAL PANEL ELEVATION

2323 NOT TO SCALE

LOAD CENTER SCHEDULE											
GENERAL ELECTRIC #TLM2020CCU											
PANEL PB 225 AMP RATED - 42 CIRCUIT W/ EQUIPMENT GROUND 208/120 VOLTS 3 PH.											
MOUNTING: FLUSH SURFACE 22,000 SYN. A.I.C. MIN. 150 AMP MAIN BREAKER											
	BREAKER SIZE	POLE	CIR. #	BUS A	B	C	CIR. #	BREAKER SIZE	POLE		
RECP.T. FRONT WALL	20	1	1				2	20	1	RECP.T. FRONT WALL	
RECP.T. FRONT WALL	20	1	3				4	20	1	(2) RECP.T. FRONT WALL	
RECP.T. FRONT WALL	20	1	5				6	20	1	RECP.T. FRONT MID COUNTER	
RECP.T. FRONT MID COUNTER	20	1	7				8	20	1	RECP.T. FRONT MID COUNTER	
RECP.T. FRONT MID COUNTER	20	1	9				10	20	1	RECP.T. FRONT MID COUNTER	
RECP.T. BACK WALL	20	1	11				12	20	1	RECP.T. BACK WALL	
RECP.T. BACK WALL	20	1	13				14	20	1	RECP.T. BACK WALL	
RECP.T. BACK WALL	20	1	15				16	20	1	RECP.T. MID COUNTER	
(2) RECP.T. MID COUNTER	20	1	17				18	20	1	(2) RECP.T. MID COUNTER	
RECP.T. MID COUNTER	20	1	19				20	20	1	(2) RECP.T. MID COUNTER	
(2) RECP.T. FRONT WALL	20	1	21				22	20	1	(2) RECP.T. FRONT WALL	
(2) RECP.T. FRONT WALL	20	1	23				24	20	1	(8) 4'X2' 2 LAMP RECESSED	
(2) 4'X2' 2 LAMP RECESSED	20	1	25				26	20	1	(2) 4'X2' 2 LAMP RECESSED	
(4) 4'X2' 2 LAMP RECESSED	20	1	27				28	20	1	SHORT DATA RACK	
WR GFCI RECP.T. ROOF	20	1	29				30	20	1	SHORT DATA RACK	
TALL DATA RACK	20	1	31				32	30	2	PTAC #3	
TALL DATA RACK	20	1	33				34	-	-	PTAC #3	
PTAC #1	30	2	35				36	30	2	PTAC #4	
PTAC #1	-	-	37				38	-	-	PTAC #4	
PTAC #2	30	2	39				40	30	2	PTAC #5	
PTAC #2	-	-	41				42	-	-	PTAC #5	

LEGEND

ALL ELECTRONIC COMPONENTS ARE UL LISTED

- 20A 125V. DUPLEX RECP.T. (GFCI WHERE NOTED)
- 30A 208V. SIMPLEX RECP.T. NEMA 6-30
- 20A 125V. DOUBLE DUPLEX (QUAD) RECP.T.
- 20A 125V. DECORATOR STYLE DIMMER OS - WITH MANUAL ON/OFF OCCUPANCY SENSOR
- 4X4X2 1/8" JUNCTION BOX W/ 3/4" C STUBOUT UNDER FLOOR FOR USE BY OTHERS (WP WHERE NOTED)

2X4 - LED FIXTURE
LITHONIA 2GTL440LFWA19MVOLTEZILP835

EM/EXIT LIGHT AT EXTERIOR DOORS

9,000 BTU COOL/17,100 BTU HEAT
4.2A COOL/22.1A HEAT - 230V. - 11.5 EER
AMANA # PTH093G50 OR EQUAL

CONDUIT WILL BE 1/2" EMT, 1/2" STEELFLEX, OR SURFACE RACEWAY UNLESS OTHERWISE NOTED

WIRING ON 20A BREAKERS WILL BE #12 = THWN - THHN

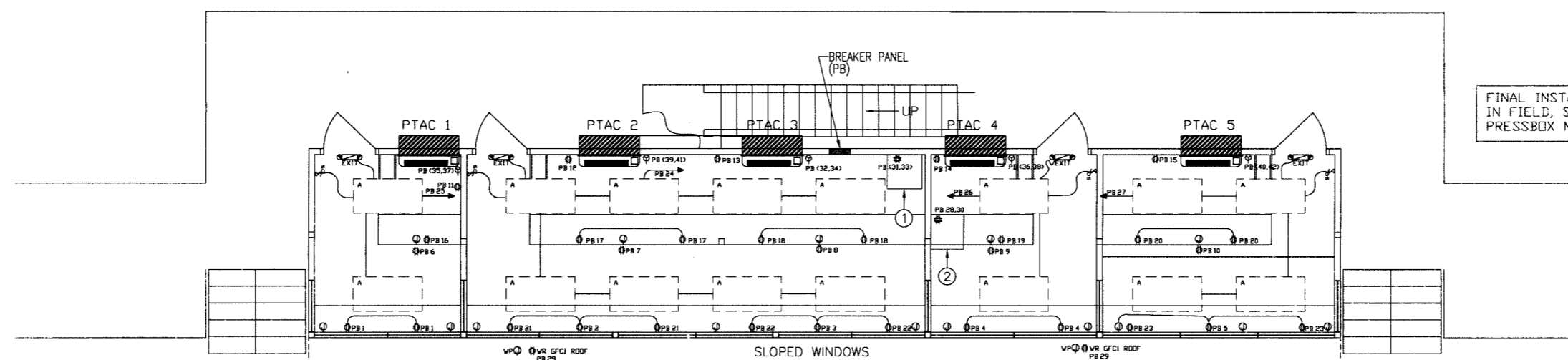
WIRING ON 30A BREAKERS WILL BE #10 = THWN - THHN

EQUIPMENT GROUND RUN IN ALL CONDUITS OR NON-METALLIC SURFACE RACEWAYS

1 TALL DATA CABINET LOCATION ON BACK WALL (BY OTHERS)

2 SHORT DATA CABINET LOCATION UNDER MID-COUNTER (BY OTHERS)

FINAL INSTALLATION OF PTAC UNITS IN FIELD, SLEEVES INSTALLED DURING PRESSBOX MANUFACTURE



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

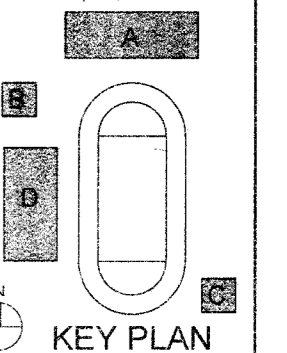
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Project No. 2015-121 LCS
Project Date 04-18-2016
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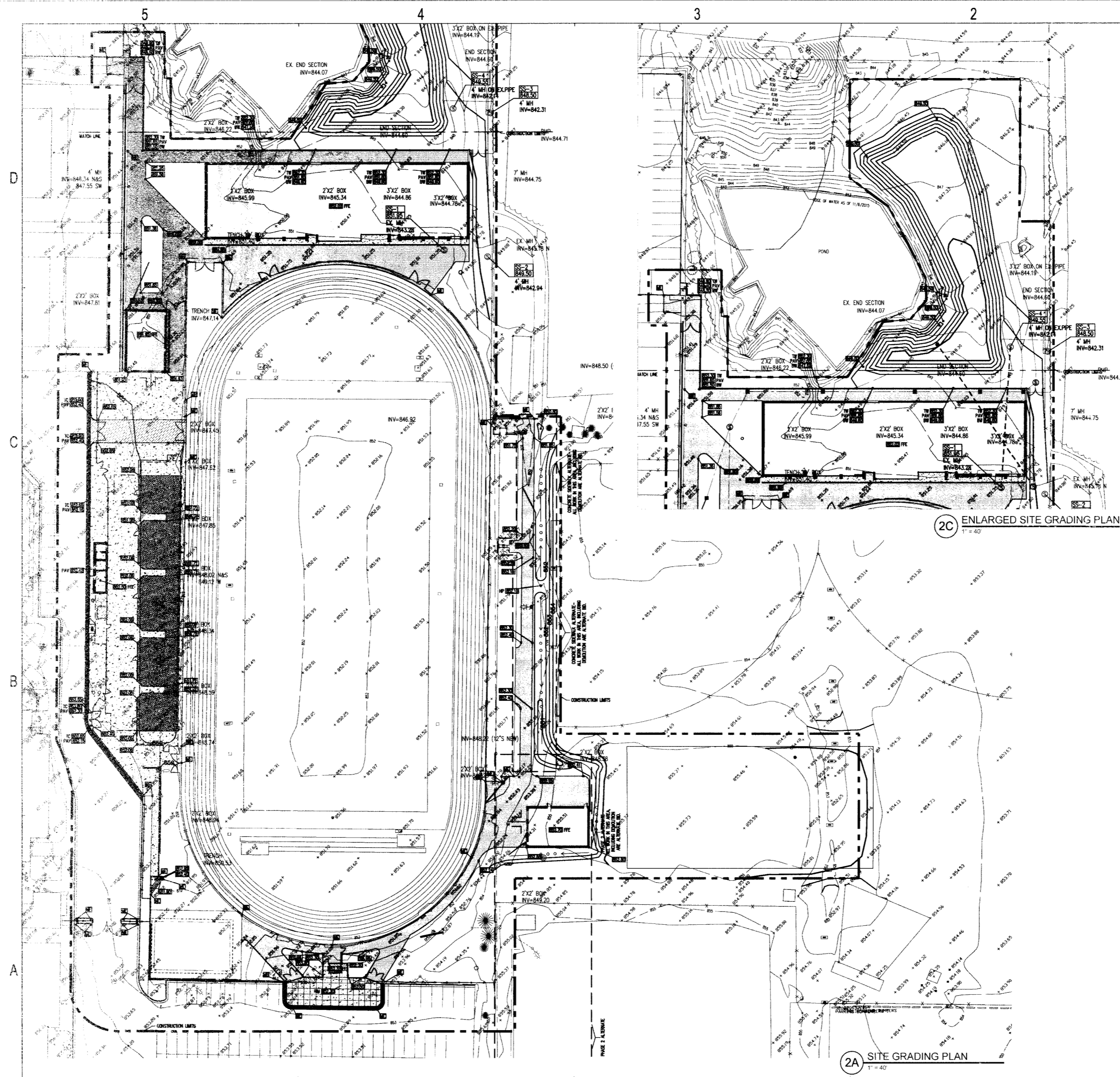
#	Revision	Date
A-1	ADDENDUM 1	4.29.2016

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Indianapolis, IN 46226



MSD OF
LAWRENCE
TOWNSHIP
LC EXTERIOR
FACILITY
UPGRADES - BP2

BLEACHER DETAILS
CL511



GRADING KEY NOTES

1. TAPER CURB HEIGHT FROM 6" TO 1" IN LAST 2 FEET OF HORIZONTAL DISTANCE.
2. EARTH BERM OR EMBANKMENT WITH 4H:1V MAXIMUM SLOPE. GRADE AS INDICATED.
3. EARTH BERM OR EMBANKMENT WITH 3H:1V MAXIMUM SLOPE. GRADE AS INDICATED.

GRADING LEGEND

- 82.0' --- EXISTING CONTOUR LINE
- 82.0' --- PROPOSED CONTOUR LINE
- 1000.00' PROPOSED ELEVATION
- 1000.00' X EXISTING ELEVATION
- 1000.00' ME HATCH EXISTING ELEVATION
- 1000.00' TOP OF CURB ELEVATION
- 1000.00' PAVEMENT ELEVATION
- 1000.00' GUTTER ELEVATION
- 1000.00' GROUND ELEVATION
- 1000.00' FLOWLINE ELEVATION
- 1000.00' BUILDING PAU ELEVATION
- 1000.00' FINISH FLOOR ELEVATION

GENERAL GRADING NOTES

1. BENCHMARK NOTES
REFERENCE BENCHMARK: A STANDARD HAAS DISK (STAMPED "MAJOR NO. 10") SET IN THE TOP OF A ROUND CONCRETE MONUMENT FLUSH WITH THE JUNCTION. THE MONUMENT IS LOCATED AT CRESTVIEW ELEMENTARY SCHOOL AT THE NORTHWEST CORNER OF EAST 71ST STREET AND HAGG RD.
ELEV. = 842.79 (NAVD 1988)
SITE T.B.M. #1: CUT "X" SET ON THE NORTH BOLT OF A TRAFFIC SIGNAL POLE LOCATED AT THE NORTHEAST CORNER OF THE INTERSECTION OF CANTO DRIVE AND EAST 56TH STREET.
ELEV. = 859.70
SITE T.B.M. #2: CUT "SQUARE" FOUND ON THE SOUTH SIDE OF THE TOP OF A CONCRETE LIGHT POLE BASE LOCATED AT THE NORTHEAST CORNER OF THE INTERSECTION OF AN ENTRANCE DRIVE TO THE SCHOOL AND EAST 56TH STREET AND 148 FEET SOUTHWEST OF THE SOUTHEAST CORNER OF THE HIGH SCHOOL.
ELEV. = 858.58
SITE T.B.M. #3: CUT "SQUARE" SET ON THE WEST SIDE OF THE TOP OF A CONCRETE LIGHT POLE BASE LOCATED SOUTHWEST OF THE SOUTHEAST CORNER OF THE TRUCK.
ELEV. = 855.87
SITE T.B.M. #4: CUT "X" SET ON THE NORTH-NORTHEAST CORNER BOLT OF A FIRE HYDRANT LOCATED ON THE NORTH SIDE OF THE NORTH MOST ENTRANCE DRIVE OFF OF CANTO DRIVE AND 118 FEET NORTHWEST OF THE NORTHWEST CORNER OF THE HIGH SCHOOL.
ELEV. = 857.37
SITE T.B.M. #5: CUT "SQUARE" SET ON THE SOUTH SIDE OF THE TOP OF A CONCRETE LIGHT POLE BASE LOCATED NEAR THE SOUTHEAST CORNER OF THE TRUCK COURTS.
ELEV. = 851.75
2. IF THE LOCAL BENCHMARK(S) WILL BE DISTURBED DURING CONSTRUCTION, IT IS THE CONTRACTOR'S RESPONSIBILITY TO ESTABLISH ADDITIONAL BENCHMARKS AS NEEDED.
3. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE ACCURACY OF SITE CONDITIONS AT THE TIME THIS PROJECT IS BID.

SCHMIDT ASSOCIATES
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www.schmidt-arch.com

Project No. 2015-1211CS
Project Date 04-18-2019
Prepared by JLS

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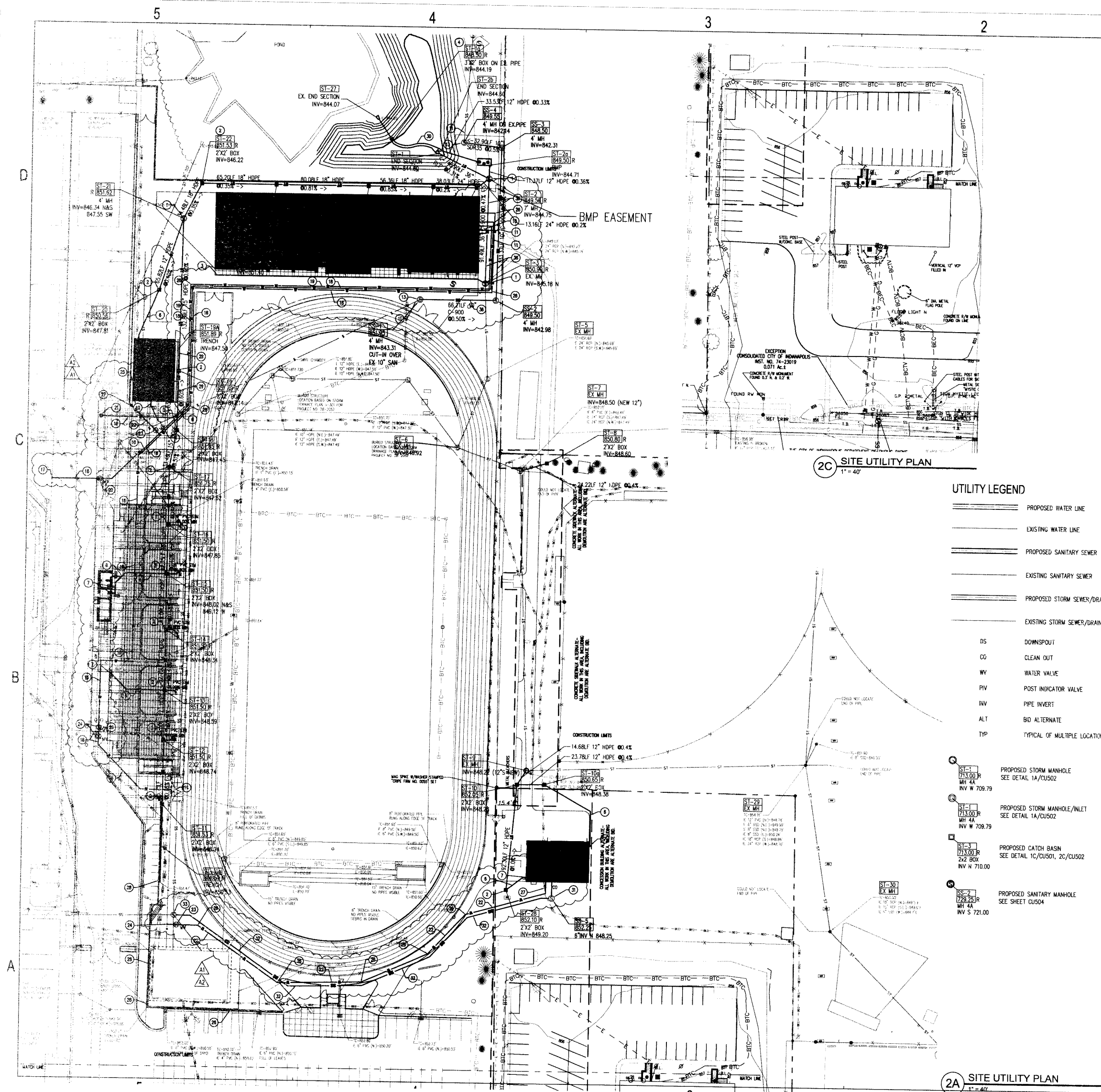
KEY PLAN

MSD OF LAWRENCE TOWNSHIP

LC EXTERIOR FACILITY UPGRADES - BP2

SITE GRADING PLAN

CG101



GENERAL UTILITY NOTES

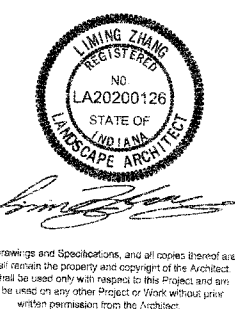
- ALL SANITARY SEWER IMPROVEMENTS SHALL BE INSTALLED IN ACCORDANCE WITH THE CITY OF LAWRENCE SANITATION DEPT. TECHNICAL SPECIFICATIONS AND DETAILS.
- WHERE A NEW SANITARY SEWER IS CONNECTED TO AN EXISTING MANHOLE, THAT MANHOLE SHALL BE REHABILITATED TO CURRENT DESIGN STANDARDS OF CITY OF LAWRENCE SANITATION DEPT. TECHNICAL SPECIFICATIONS AND DETAILS. REHABILITATION SHALL INCLUDE REPAIRING FLOW CHANNELS/BENCHMARKS, SEALING CRACKS, CHIMNEY SEAL INSTALLATION, AS WELL AS OTHER MEASURES TO REDUCE THE AMOUNT OF INFILTRATION AND FLOW TO REQUIRED LEVELS.
- ALL LOCATIONS WHERE OTHER UTILITIES CROSS THE PROPOSED SANITARY SEWER WITH 18" VERTICAL CLEARANCE OR LESS REQUIRE THE INSTALLATION OF A CONCRETE CRADLE ON OTHER MEANS OF STRUCTURAL SUPPORT.
- ALL SANITARY LATERALS REQUIRE THE INSTALLATION OF A TRACER WIRE ON TOP OF THE PIPES FROM THE SEWER MAIN TO THE CLEAR CUT.
- ALL LIDS, CASTINGS, GRATES, BOXES, AND HATCHES ASSOCIATED WITH EXISTING UTILITY STRUCTURES THAT ARE NOT INDICATED FOR MODIFICATION SHALL BE MAINTAINED AND PROTECTED DURING CONSTRUCTION.
- COMPACTED GRANULAR BACKFILL IS REQUIRED FOR ALL UTILITY TRENCHES LOCATED UNDER GRADED AREAS. SEE SPECIFICATIONS.
- ALL WATER SYSTEM AND FIRE PROTECTION SYSTEM IMPROVEMENTS SHALL BE INSTALLED IN ACCORDANCE WITH CITY OF LAWRENCE UTILITIES TECHNICAL STANDARDS AND SPECIFICATIONS.
- A MINIMUM OF 48" OF COVER SHALL BE PROVIDED OVER ALL EXTERIOR WATER PIPE, VALVES, AND FITTINGS.
- PIPE LENGTHS INDICATED ON THE DRAWINGS ARE FOR HYDRAULIC CALCULATION PURPOSES ONLY. CONTRACTOR IS RESPONSIBLE FOR FURNISHING THE AMOUNT OF PIPE MATERIALS NECESSARY FOR A COMPLETE INSTALLATION.
- ALL STORM INLET CASTINGS SHALL BE PERMANENTLY STAMPED WITH NOTATION "DUMP NO WASTE, DRAIN TO RIVER".
- ALL STORM SEWERS, STRUCTURES, AND LATERALS WITHIN THE SUBJECT SITE SHALL BE PRIVATELY OWNED AND MAINTAINED.
- NO SUBSTITUTION OF PIPE/HYDRODYNAMIC SEPARATOR STRUCTURE OR MANUFACTURER IS PERMITTED.
- INSTALL 18" x 18" x 4" CONCRETE COLLAR AROUND ALL CLEANOUTS, FIRE HYDRANTS, VALVE BOXES, INDICATOR POSTS, AND HARD HYDRANTS THAT ARE LOCATED IN YARD AREAS. COLLAR TO BE SET 1" ABOVE ADJACENT GROUND GRADES.
- AN EXISTING FIELD TILE IS INDICATED ON THE DRAWINGS BASED ON RECORDS OF COUNTY RECORDS. ADDITIONAL BRANCH TILES OR OTHER FIELD TILES MAY EXIST ON THE SITE. ALL TILES ENCOUNTERED DURING EXCAVATION THAT REQUIRE RELOCATION SHALL BE SET INTO THE NEAREST STORM STRUCTURE TO MAINTAIN PROTECTIVE FLOW. OR THE TILE SHALL BE RELOCATED AROUND THE PROPOSED WORK USING NEW PIPE OF A SIMILAR SIZE. ALL TILES DAMAGED DURING EXCAVATION THAT CAN BE REPAIRED IN PLACE SHALL BE REPAIRED. ANY TILES LOCATED UNDER THE PROPOSED BUILDING SHALL BE EXCAVATED AND REMOVED AND THE TRENCH FILLED WITH ENGINEERED FILL PER SPECIFICATIONS.

UTILITY NOTES

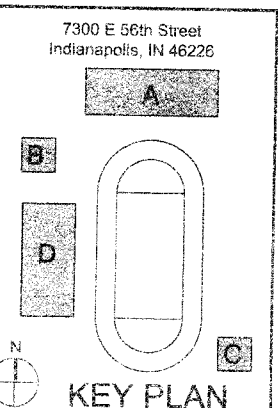
- PROPOSED CONCRETE STORM MANHOLE. SEE DETAIL 5A/CU102.
- PROPOSED CONCRETE BOX INLET. SEE DETAIL 2C/CU102.
- ADD TRENCH DRAIN. SEE DETAIL 3D/CU101.
- CONCRETE DISCHARGE CONTROL STRUCTURE. SEE DETAIL 3D/CU101.
- CONCRETE END SECTION. SEE DETAIL 3A/CU102.
- DOWNSPOUT DRAIN.
- CONNECT DOWNSPOUT TO DOWNSPOUT DRAIN LINE AT ROOF. SEE DETAIL 3C/CU101.
- CONNECT TO BUILDING SANITARY SEWER. SEE PLUMBING DRAWINGS FOR CONTINUATION.
- NOT USED.
- PROPOSED CLEANOUT. SEE SH. CU107.
- CONNECT TO SANITARY SEWER.
- CONNECT TO EXISTING SANITARY SEWER.
- PROPOSED SANITARY MANHOLE ON TOP OF EXISTING PIPE. SEE SH. CU105.
- CONNECT TO EXISTING STORM MANHOLE.
- PROPOSED STORM STRUCTURE ON TOP OF EXISTING PIPE.
- PROPOSED 4" DOMESTIC WATER MAIN AT 48" MIN. COVER. CONNECT TO EXISTING 4" WATER MAIN. FIELD VERIFY THE CONNECTION POINTS.
- 17" EXISTING 10" WATER MAIN, 10" TAPPING SLEEVE & VALVE REQD.
- 6" FIRE SERVICE LINE.
- 4" FIRE PUMP LINE.
- POST INDICATOR VALVE (PIV).
- FIRE DEPARTMENT CONNECTION (FDC).
- PROPOSED 3" DOMESTIC WATER LINE @ 48" MIN. COVER. FIELD VERIFY THE CONNECTION POINTS.
- 2" WATER VALVE.
- 4" WATER VALVE.
- CONNECT TO BUILDING DOMESTIC WATER LINE. SEE PLUMBING PLANS.
- WATER FITTING.
- 50 & 60 PSI. SEE DETAIL 1C/CU102.
- EXISTING TRENCH DRAIN.
- CONCRETE TRENCH DRAIN. SEE DETAIL 5B/CU101.
- CONCRETE CHANNEL. SEE DETAIL 1C/CU101.
- DUPLEX PACKAGED SANITARY LIFT STATION, BARNES ULTRASONIC SERVO (2) 3000/3000Z, PUMPS, 3" IMPELLER, OR APPROVED EQUAL, RATED AT 33 GPM @ 12.5' TDH. SEE DETAILS 2A/CU105, 2B/CU105 AND SPECS.
- 2" PVC SCH. 80 SANITARY FORCE MAIN.
- CONNECT FORCE MAIN TO EXISTING SANITARY MAIN. 2" INV. E. 849.50 TERMINATE W/ 2"x2" SANITARY TEE.
- LIFT STATION CONTROL PANEL AND ALARM. SEE ELEC. PLANS.
- CONNECT TO 10" BUILDING ROOF DRAIN LEADER. SEE PLUMBING DRAWINGS.
- PRESSURE RATED SANITARY SEWER AND STORM DRAINAGE PIPING REQUIRED IN THIS AREA.

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Indianapolis, Indiana 46204
www.schmidt-arch.com

Project No. 2015-121LCS
Project Date 04-18-2016
Prepared JLS

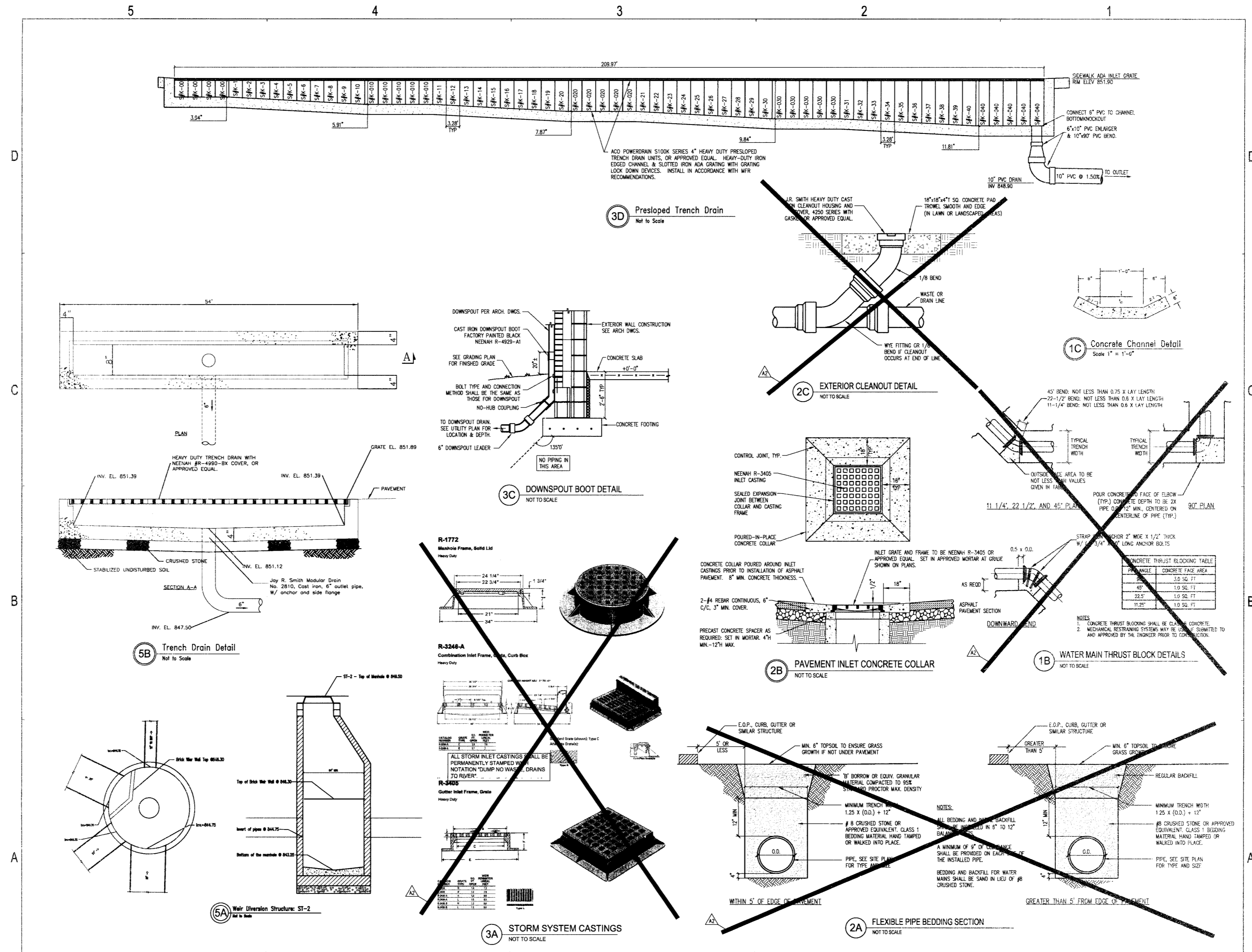


#	Revision	Date
A1	ADDENDUM 1	4.29.2016
A2	ADDENDUM 2	5.8.2016



MSD OF LAWRENCE TOWNSHIP
LC EXTERIOR FACILITY UPGRADES - BP2

SITE UTILITY PLAN
CU101



SCHMIDT
ASSOCIATES
415 Massachusetts Avenue
Indianapolis, Indiana 46204
www.schmidt-arch.com

Project No. 2015-1211CS
Project Date 04-18-2016
Produced J.S.
Professional Seal
JIMMY CHANG
REGISTERED
NO. LA20200126
STATE OF INDIANA
LANDSCAPE ARCHITECT

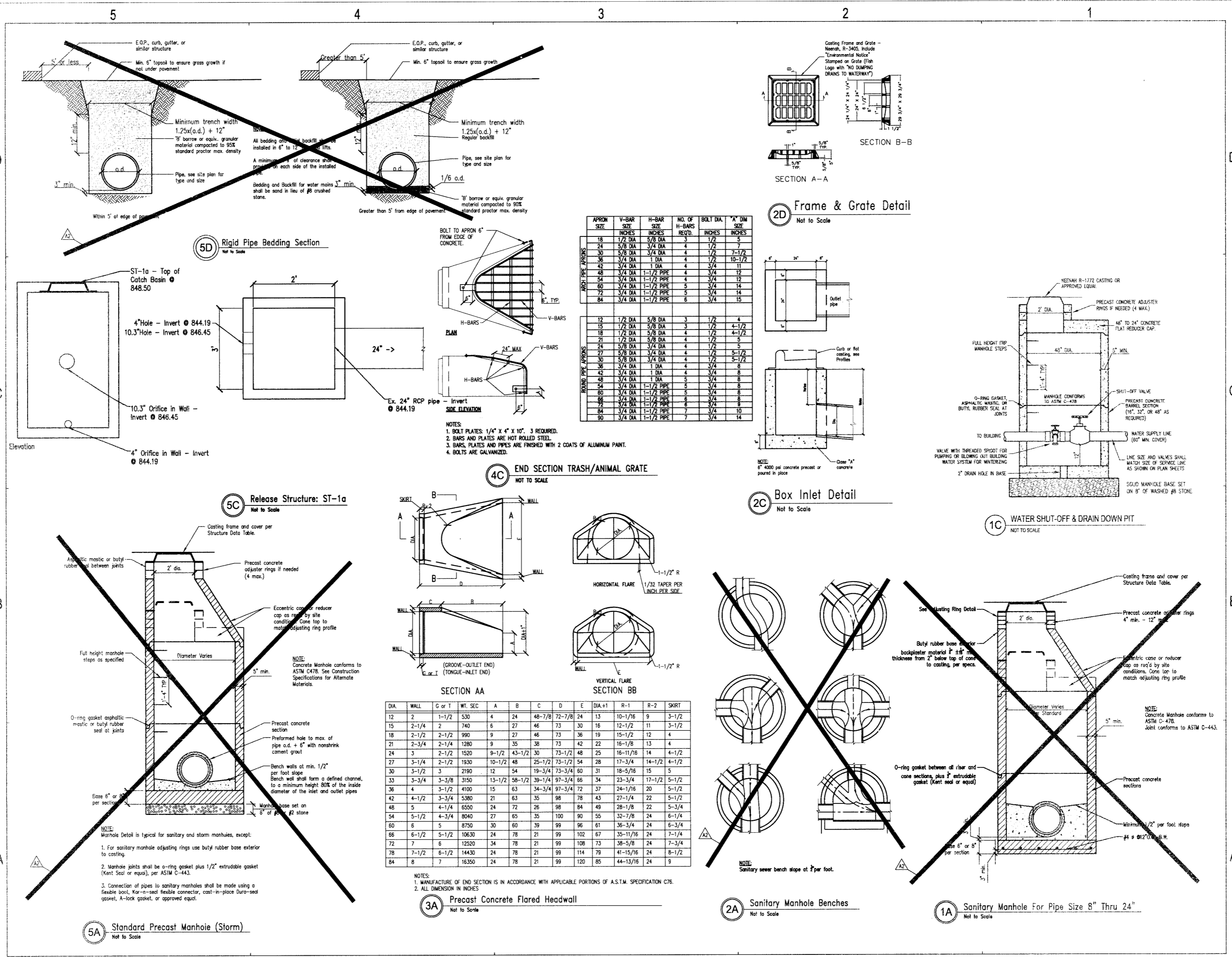
Revision Date
A2 ADDENDUM 2 5.8.2016

7300 E 56th Street
Indianapolis, IN 46226
KEY PLAN

MSD OF
LAWRENCE
TOWNSHIP
LC EXTERIOR
FACILITY
UPGRADES - BP2

SITE UTILITY DETAILS

CU501



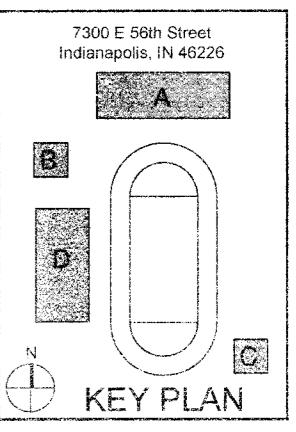
SCHMIDT ASSOCIATES
415 Massachusetts Avenue
Indianapolis, Indiana 46204
www.schmidt-arch.com

Project No. 2015-121 LCS
Project Date 04-18-2016
Prepared JLS

Seal: LAMING ZHANG ARCHITECT, INC. NO. LA20200126, STATE OF INDIANA, LANDSCAPE ARCHITECT

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#	Revision	Date



MSD OF LAWRENCE TOWNSHIP

LC EXTERIOR FACILITY UPGRADES - BP2

SITE UTILITY DETAILS

CU502

STRUCTURE NUMBER	ST-1	ST-1A	ST-2	ST-2A	ST-2B	ST-3	ST-4
HYDRAFLOW LINE NUMBER	-	-	-	-	-	-	-
DESCRIPTION	END SECTION	BOX INLET	MANHOLE	BMP	END SECTION	EX. MANHOLE	TRENCH
DETAIL NUMBER	3A/CU502	2C/CU502	1A/CU502	CU503	3A/CU502		5B/CU501
STRUCTURE SIZE	36"	36"x24"	84" DIA.	5'X11'	12"	48" DIA.	4"x209'
CASTING NUMBER	-	R-3593	R-1772	(3) R-1772	-	R-2502	ACO S100K
RIM ELEVATION	-	848.50	849.50	849.50	-	850.90	851.90
INVERTS	844.60	844.19	844.75	844.71	844.60	845.18N	847.96 840.09

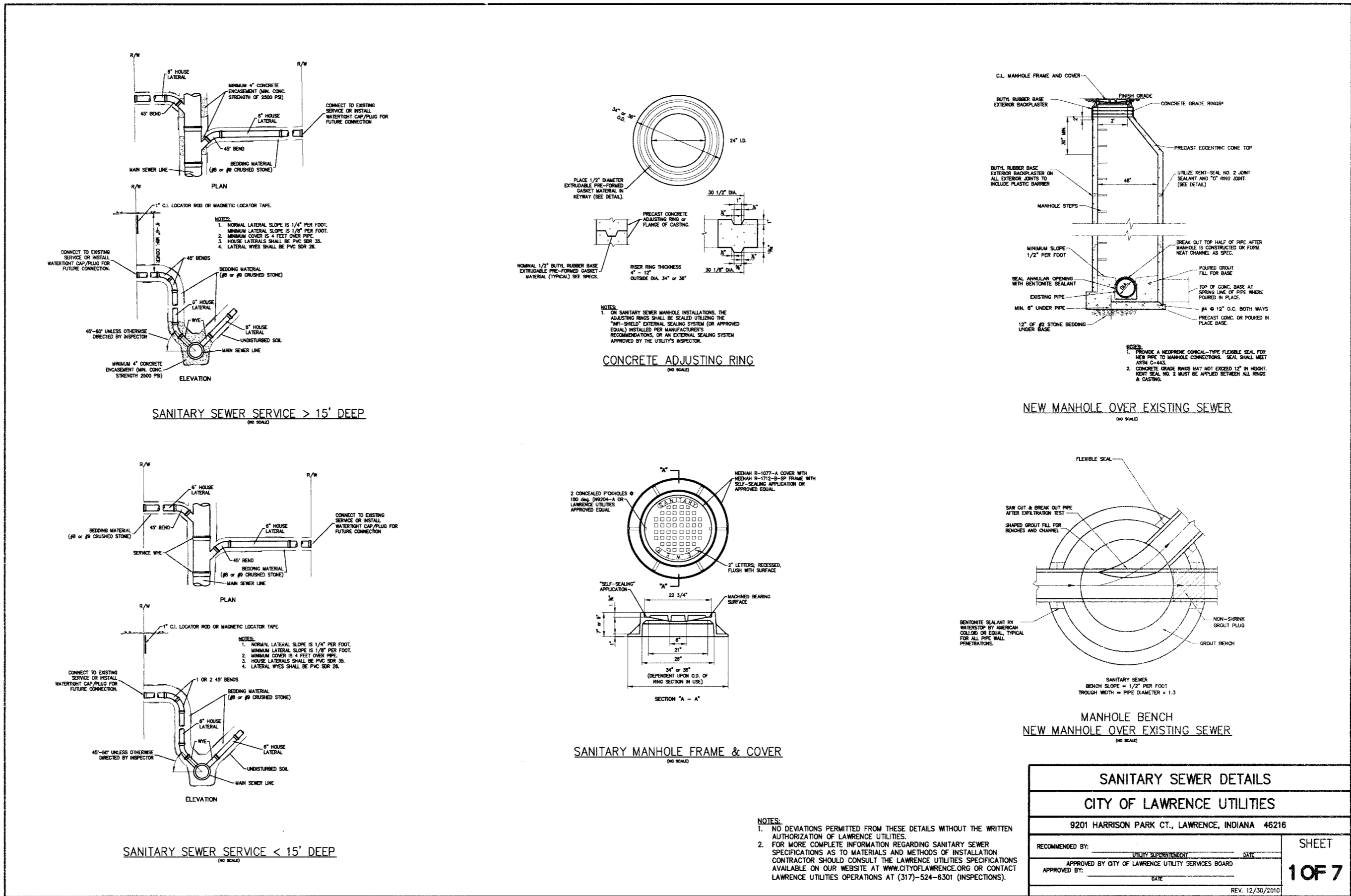
STRUCTURE NUMBER	ST-8	ST-10	ST-10A	ST-11	ST-12	ST-13	ST-14
HYDRAFLOW LINE NUMBER	-	-	-	-	-	-	-
DESCRIPTION	BOX INLET	BOX INLET	BOX INLET	BOX INLET	BOX INLET	BOX INLET	BOX INLET
DETAIL NUMBER	2C/CU502	2C/CU502	2C/CU502	2C/CU502	2C/CU502	2C/CU502	2C/CU502
STRUCTURE SIZE	24"x24"	24"x24"	24"x24"	24"x24"	24"x24"	24"x24"	24"x24"
CASTING NUMBER	R-3405	R-3405	R-3405	R-3405	R-3405	R-3405	R-3405
RIM ELEVATION	850.80	852.05	850.65	851.53	851.50	851.50	851.50
INVERTS	848.60	848.28	848.38	848.94	848.74	848.59	848.34

STRUCTURE NUMBER	ST-15	ST-16	ST-17	ST-18	ST-19	ST-20	ST-21
HYDRAFLOW LINE NUMBER	-	-	-	-	-	-	-
DESCRIPTION	BOX INLET	BOX INLET	BOX INLET	BOX INLET	BOX INLET	BOX INLET	MANHOLE
DETAIL NUMBER	2C/CU502	2C/CU502	2C/CU502	2C/CU502	2C/CU502	2C/CU502	5A/CU502
STRUCTURE SIZE	24"X24"	24"X24"	24"X24"	24"X24"	24"X24"	24"X24"	48" DIA
CASTING NUMBER	R-3405	R-3405	R-3405	R-3405	R-3405	R-3405	R-2502
RIM ELEVATION	851.50	851.50	851.75	851.85	851.89	850.56	851.62
INVERTS	848.02 N&S 849.12 W	847.85	847.62	847.45	847.14	847.81	846.34 N&S 847.55 SW

STRUCTURE NUMBER	ST-22	ST-23	ST-24	ST-25	ST-26	ST-28
HYDRAFLOW LINE NUMBER	-	-	-		--	
DESCRIPTION	BOX INLET	BOX INLET	BOX INLET	BOX INLET	BOX INLET	BOX INLET
DETAIL NUMBER	2C/CU502	2C/CU502	2C/CU502	2C/CU502	2C/CU502	2C/CU502
STRUCTURE SIZE	24"x24"	24"x24"	24"x24"	24"x24"	24"x24"	24"x24"
CASTING NUMBER	R-3405	R-3405	R-3405	R-3593	R-3593	R-3405
RIM ELEVATION	851.53	851.53	851.53	851.53	851.53	852.10
INVERTS	846.22	845.99	845.34	844.86	844.78	849.20

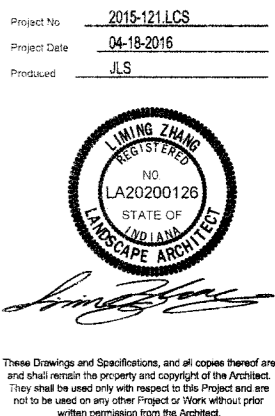


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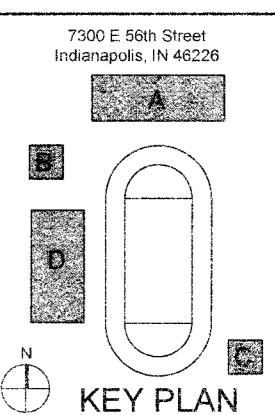


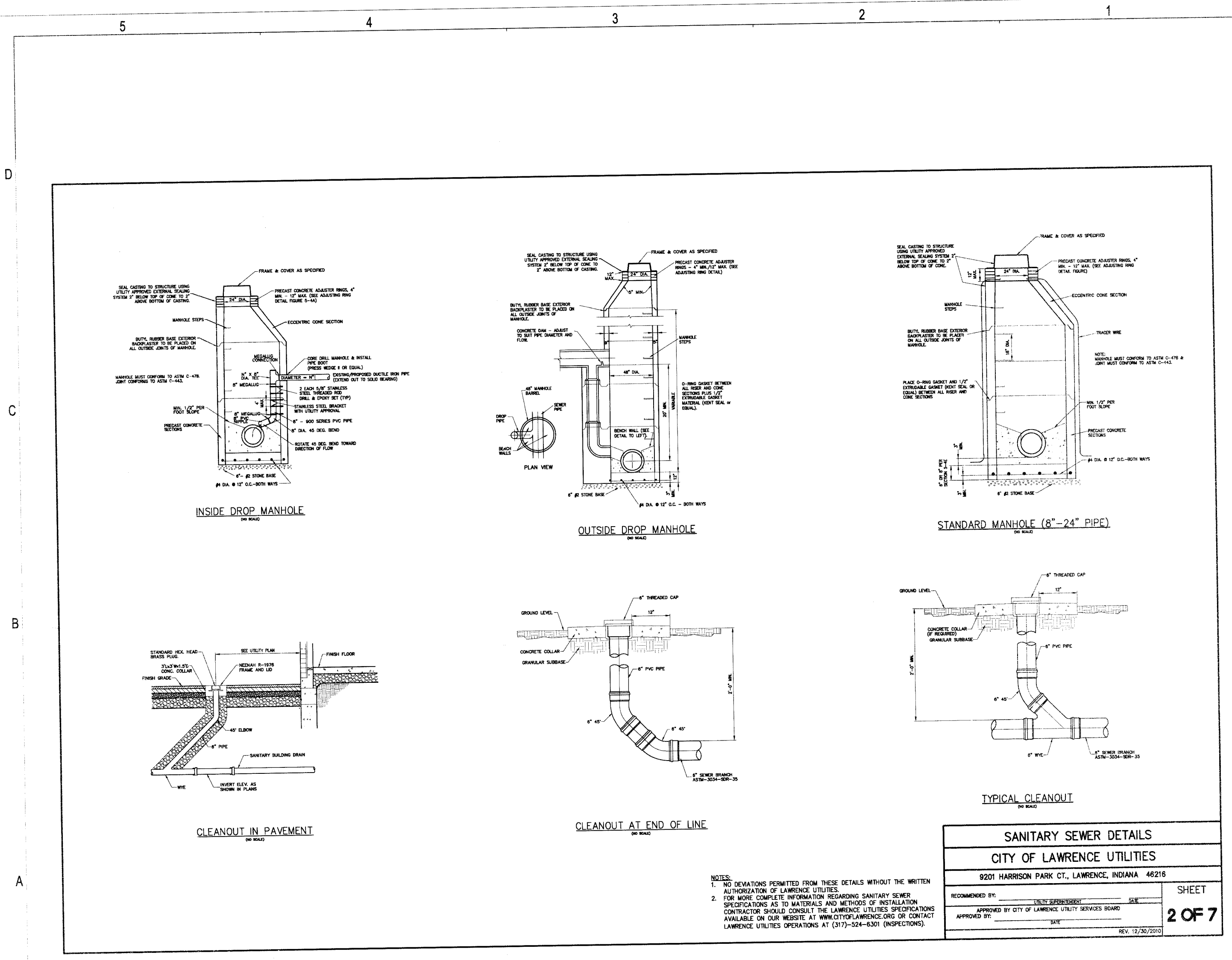
NOTES:
1. NO DEVIATIONS PERMITTED FROM THESE DETAILS WITHOUT THE WRITTEN AUTHORIZATION OF LAWRENCE UTILITIES.
2. FOR MORE COMPLETE INFORMATION REGARDING SANITARY SEWER SPECIFICATIONS AS TO MATERIALS AND METHODS OF INSTALLATION CONTRACTOR SHOULD CONSULT THE LAWRENCE UTILITIES SPECIFICATIONS AVAILABLE ON OUR WEBSITE AT WWW.CITYOFLAWRENCE.ORG OR CONTACT LAWRENCE UTILITIES OPERATIONS AT (317)-524-6301 (INSPECTIONS).

SANITARY SEWER DETAILS	
CITY OF LAWRENCE UTILITIES	
9201 HARRISON PARK CT., LAWRENCE, INDIANA 46216	
RECOMMENDED BY: <u>UTILITY REPRESENTATIVE</u>	SHEET 1 OF 7
APPROVED BY: <u>CITY OF LAWRENCE UTILITIES SERVICES BOARD</u>	
DATE: <u>12/30/2010</u>	



#	Revision	Date
A2	ADDENDUM 2	5.6.2016





NOTES:
1. NO DEVIATIONS PERMITTED FROM THESE DETAILS WITHOUT THE WRITTEN AUTHORIZATION OF LAWRENCE UTILITIES.
2. FOR MORE COMPLETE INFORMATION REGARDING SANITARY SEWER SPECIFICATIONS AS TO MATERIALS AND METHODS OF INSTALLATION CONTRACTOR SHOULD CONSULT THE LAWRENCE UTILITIES SPECIFICATIONS AVAILABLE ON OUR WEBSITE AT WWW.CITYOFLAWRENCE.ORG OR CONTACT LAWRENCE UTILITIES OPERATIONS AT (317)-524-6301 (INSPECTIONS).

SANITARY SEWER DETAILS	
CITY OF LAWRENCE UTILITIES	
9201 HARRISON PARK CT., LAWRENCE, INDIANA 46216	
RECOMMENDED BY: _____ DATE: _____	SHEET 2 OF 7
APPROVED BY: _____ DATE: _____	
DATE: _____ REV. 12/30/2010	

SCHMIDT ASSOCIATES
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Project No: 2015-121 LGS
Project Date: 04-18-2016
Prepared: JLS

LIVING TRAILS
REGISTERED
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A2	ADDENDUM 2	5.6.2016

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KEY PLAN

MSD OF LAWRENCE TOWNSHIP

LC EXTERIOR FACILITY UPGRADES - BP2

CITY STANDARD DETAILS
CU507

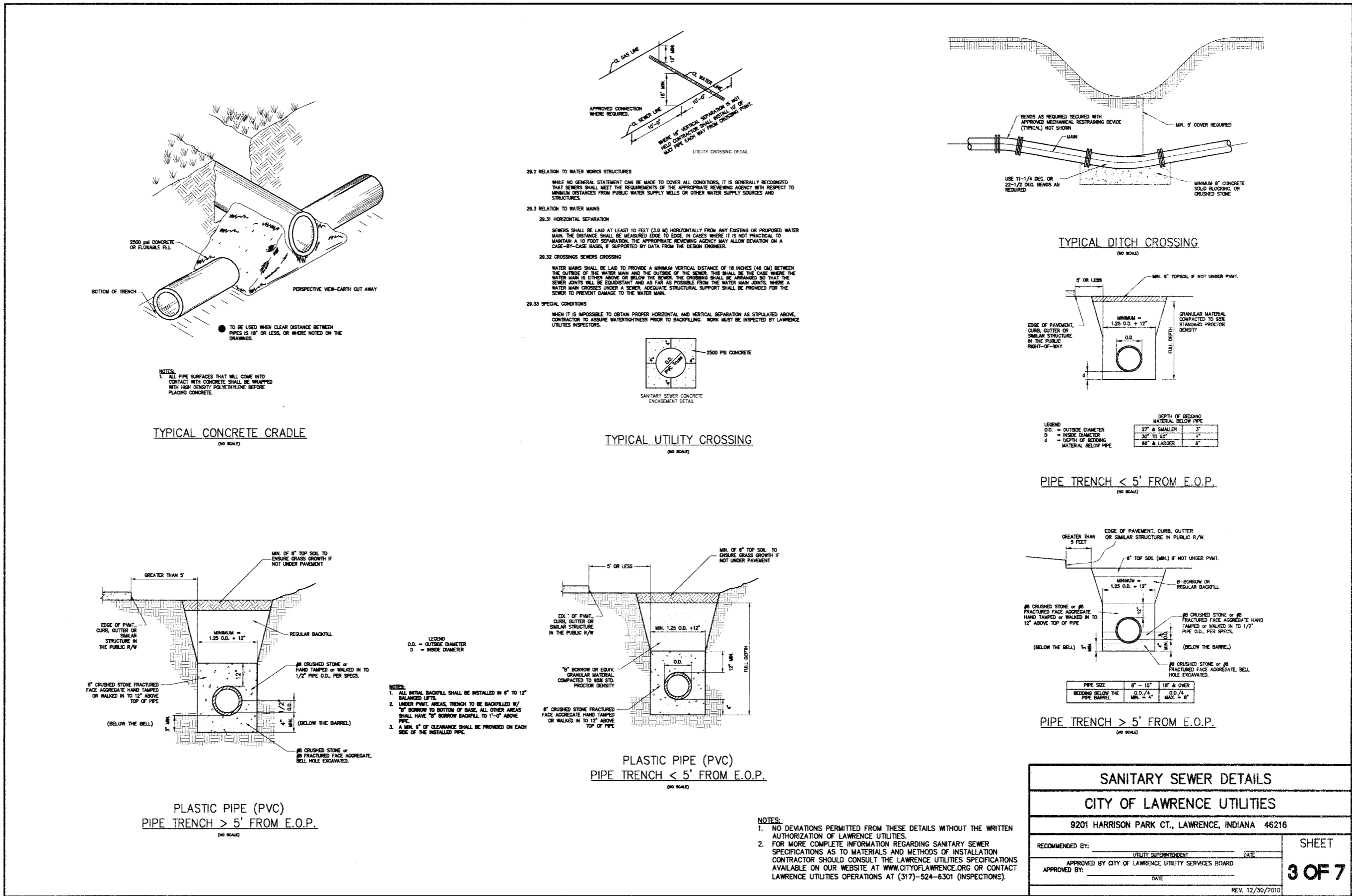
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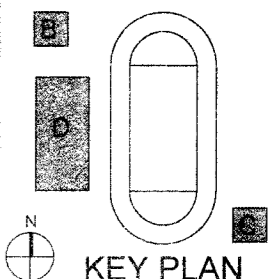
Project No. 2015-121 LCS
Project Date 04-18-2016
Produced JLS



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Revision Date
A2 ADDENDUM 2 5.6.2016

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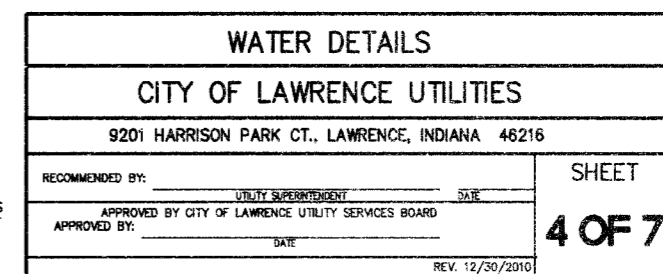


MSD OF
LAWRENCE
TOWNSHIP



LC EXTERIOR
FACILITY
UPGRADES - BP2

CITY STANDARD
DETAILS
CU508



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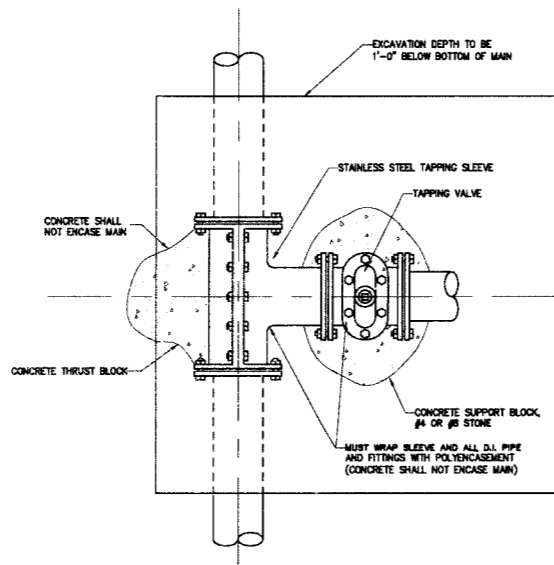
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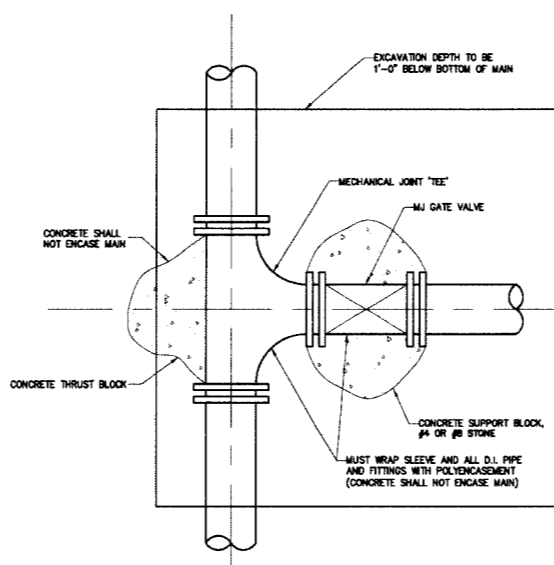
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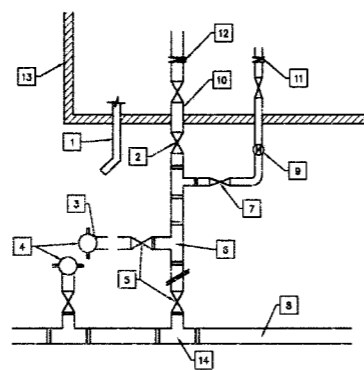
MAIN CONNECTION DETAILS-1 (WET TAP)

(NO SCALE)



MAIN CONNECTION DETAILS-2 (DRY TAP)

(NO SCALE)

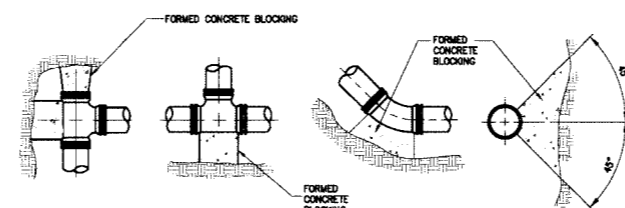


FIRE SERVICE ENTRANCE DETAIL

(NO SCALE)

- 1 FIRE DEPARTMENT CONNECTION MUST BE WITHIN A 100' RADIUS OF A FIRE HYDRANT AND MUST BE THE DISTANCE AWAY FROM THE STRUCTURE OF 1.5 TIMES THE HEIGHT OF THE STRUCTURE.
- 2 POST INDICATOR VALVE MUST BE FREE STANDING (APPROVAL BY THE LAWRENCE FIRE DEPARTMENT).
- 3 ALTERNATE HYDRANT LOCATION--MAIN MUST BE THE MINIMUM OF A 6\".
- 4 FIRE HYDRANT ASSEMBLY -- PER CITY OF LAWRENCE TYPICAL DETAIL.
- 5 MAIN WITH VALVE BOX
- 6 6\" MIN FIRE SERVICE LINE TO PIV MAY BE WAIVED BY LAWRENCE UTILITIES & LAWRENCE FIRE DEPARTMENT UPON WRITTEN REQUEST
- 7 DOMESTIC WATER SHUTOFF VALVE WITH BOX.
- 8 EXISTING WATER MAIN
- 9 WATER METER IN PIT
- 10 VALVE
- 11 REDUCED PRESSURE ZONE BACKFLOW DEVICE (IF REQUIRED)
- 12 DOUBLE DETECTOR CHECK VALVE REQUIRED
- 13 BUILDING
- 14 STAINLESS STEEL WET TAP & VALVE

NOTES:
ALL VALVES AND FITTINGS ARE REQUIRED TO BE RESTRAINED USING APPROPRIATE MECHANICAL TYPE RESTRAINT DEVICES OR THRUST BLOCKING. THE LAWRENCE UTILITIES INSPECTOR SHALL APPROVE ALL RESTRAINT DEVICES OR BLOCKING AT TIME OF INSTALLATION. ALL RESTRAINED JOINTS, FITTINGS AND VALVES SHALL BE INSPECTED AND APPROVED PRIOR TO PLACING BACKFILL.

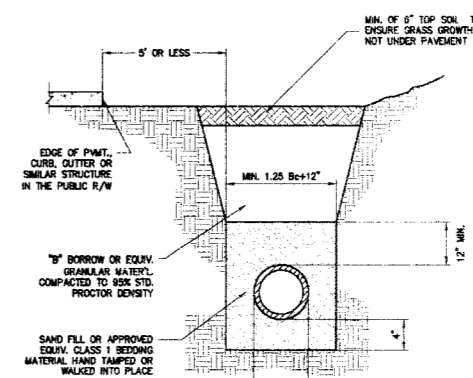


TYPICAL THRUST BLOCKING

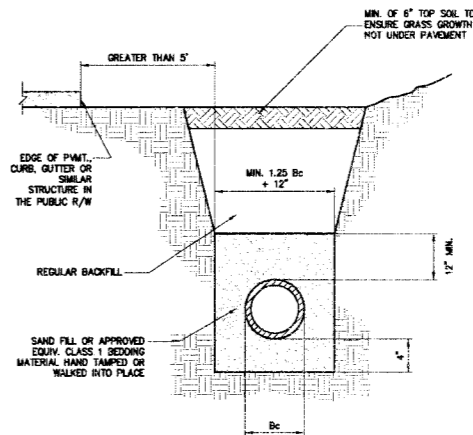
(NO SCALE)

AREA OF CONCRETE IN CONTACT WITH UNDISTURBED EARTH AREA IN SQUARE FEET REQUIRED FOR CONCRETE THRUST BLOCKING					
SIZE	TEE & PLUG	90° BEND	45° BEND	22 1/2° BEND	11 1/4° BEND
4"	2.0	2.5	1.8	1.0	1.0
6"	4.0	5.5	3.0	1.5	1.5
8"	8.0	9.0	5.0	2.5	1.5
10"	10.0	20.0	11.0	4.0	2.0
12"	14.0	27.0	14.0	5.5	3.0
14"	19.0	35.0	19.0	7.5	4.0
16"	25.0	44.5	24.0	10.5	6.0
18"	30.0	54.5	29.5	13.0	7.5
24"	50.5	78.5	42.5	22.0	11.0
30"	86.5	122.0	66.0	34.0	17.0
36"	124.0	175.5	95.0	48.0	24.5
42"	188.0	237.0	138.5	68.5	33.0

NOTES:
MECHANICAL RESTRAINTS MAY BE USED IN LIEU OF POURED CONCRETE BLOCKING WITH PRIOR APPROVAL BY LAWRENCE UTILITIES INSPECTOR. LAWRENCE UTILITIES SHALL DETERMINE TYPE IF APPROVED.

PLASTIC PIPE (PVC & HDPE)
BEDDING & BACKFILL

(NO SCALE)

PLASTIC PIPE (PVC & HDPE)
BEDDING & BACKFILL

(NO SCALE)

WATER DETAILS	
CITY OF LAWRENCE UTILITIES	
9201 HARRISON PARK CT., LAWRENCE, INDIANA 46216	
RECOMMENDED BY: _____ DATE: _____	SHEET
APPROVED BY: _____ DATE: _____	5 OF 7
REV. 12/30/2013	

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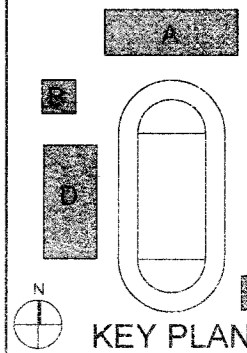
ASSOCIATES

415 Massachusetts Avenue
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www.schmidt-arch.comProject No. 2015-121 LCS
Project Date 04-19-2016
Produced JLS

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#	Revision	Date
A2	ADDENDUM 2	5.6.2016

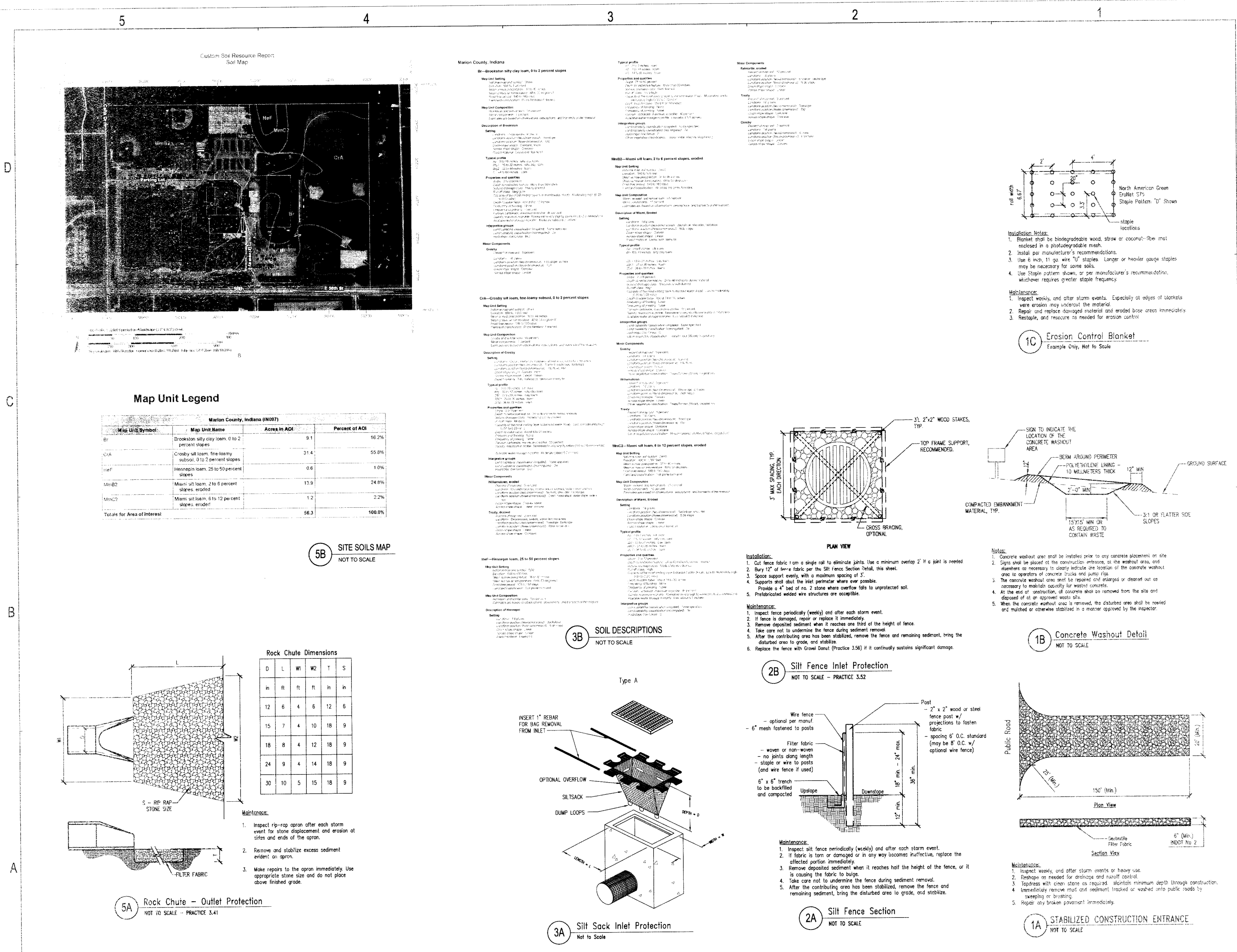
C

7300 E 56th Street
Indianapolis, IN 46226

KEY PLAN

MSD OF
LAWRENCE
TOWNSHIPLC EXTERIOR
FACILITY
UPGRADES - BP2CITY STANDARD
DETAILS

CU510



SCHMIDT ASSOCIATES
415 Massachusetts Avenue
Indianapolis, Indiana 46204
www.schmidt-arch.com

Project No: 2015-121-LCS
Project Date: 04-18-2016
Prepared: J.S.

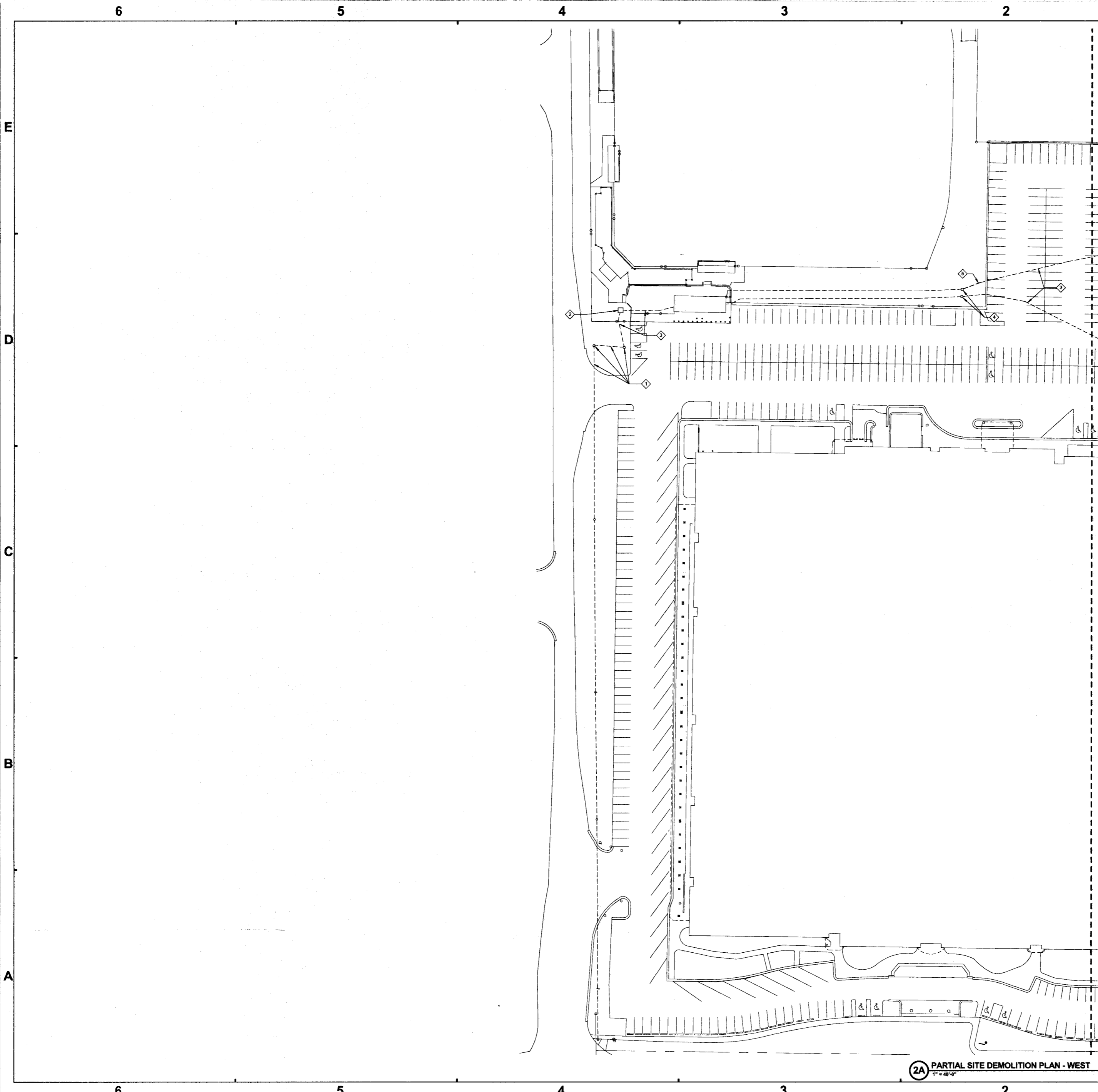
Seal: J. Schmidt, P.E., L.A. 2200126, State of Indiana, Landscape Architect

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Indianapolis, IN 46226

MSD OF LAWRENCE TOWNSHIP

LC EXTERIOR FACILITY UPGRADES - BP2

EROSION CONTROL NOTES AND DETAILS
CE502



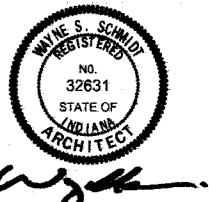
- GENERAL SITE DEMOLITION NOTES**
- A. REFER TO SHEET E-001 FOR ADDITIONAL INFORMATION.
 - B. THIS DRAWING REPRESENTS INFORMATION OBTAINED FROM ORIGINAL CONTRACT DRAWINGS AND FIELD SURVEY. VERIFY BY ON-SITE OBSERVATION THE EXTENT OF WORK PRIOR TO SUBMISSION OF BID.
 - C. CONTRACT DOCUMENTS CONSIST OF BOTH PROJECT MANUAL AND DRAWINGS AND ARE MEANT TO BE COMPLEMENTARY. ANYTHING APPEARING ON EITHER MUST BE EXECUTED THE SAME AS IF SHOWN ON BOTH.
 - D. THOROUGHLY EXAMINE THE WORK OF OTHER CONTRACTORS AND PROPERLY INSTALL ALL WORK REQUIRED FOR THE PROJECT.
 - E. THE OWNER HOLDS RIGHT OF FIRST REFUSAL FOR ALL DEMOLISHED ELECTRICAL EQUIPMENT.
 - F. ALL ELECTRICAL ITEMS SHOWN WITH LIGHT LINEWORK ARE EXISTING TO REMAIN.
 - G. REMOVE ALL ELECTRICAL ITEMS SHOWN WITH BOLD/DASHED LINEWORK COMPLETE.
 - H. COORDINATE AND DISCONNECT ALL ARCHITECTURAL, MECHANICAL, AND PLUMBING EQUIPMENT AS NOTED FOR REMOVAL BY OTHERS. REMOVE ALL ASSOCIATED ELECTRICAL EQUIPMENT, RACEWAYS, CONDUCTORS, ETC. SERVING THE EQUIPMENT.
 - I. PROVIDE ALL CUTTING AND PATCHING AS REQUIRED FOR THE REMOVAL OF EXISTING ELECTRICAL EQUIPMENT. REFER TO SPECIFICATIONS.
- SITE DEMOLITION PLAN NOTES**
- 1. EXISTING IPAL OVERHEAD PRIMARY AND POLES TO REMAIN.
 - 2. EXISTING IPAL PAD-MOUNTED SWITCH TO REMAIN.
 - 3. EXISTING IPAL UNDERGROUND PRIMARY TO REMAIN.
 - 4. EXISTING PULL BOX TO REMAIN.
 - 5. INTERCEPT EXISTING PRIMARY AND MODIFY AS INDICATED ON ES101.
 - 6. EXISTING IPAL PAD-MOUNTED TRANSFORMER TO REMAIN.
 - 7. EXISTING GENERATOR TO REMAIN.
 - 8. EXISTING SECONDARY TO TMOP TO REMAIN.
 - 9. DISCONNECT AND REMOVE EXISTING CONDUCTORS FROM TMOP (BOILER HOUSE) TO FBMOP (CONCESSION BUILDING). CAP CONDUITS AND ABANDON IN PLACE.
 - 10. DISCONNECT AND REMOVE EXISTING POWER DISTRIBUTION PANELBOARD FBMOP AND FOOTBALL FIELD LIGHTING CONTACTORS, CONDUIT, WIRE, ETC. COMPLETE.
 - 11. DISCONNECT AND REMOVE EXISTING PANELBOARDS AND TRANSFORMERS FED FROM FBMOP AND CONDUIT, WIRE, ETC. COMPLETE.
 - 12. EXISTING PLAY CLOCK TO REMAIN.
 - 13. BASE BID: EXISTING SCOREBOARD TO REMAIN. ALTERNATE BID LC-7: DISCONNECT AND REMOVE ALL CONDUIT AND WIRE FOR THE RELOCATION OF THE SCOREBOARD.
 - 14. EXISTING FOOTBALL FIELD LIGHTING POLE AND FIXTURES TO REMAIN.
 - 15. EXISTING PANELBOARD SL2 AND 15KVA TRANSFORMER FED FROM STADIUM EAST PANELBOARD TO REMAIN.
 - 16. BASE BID: EXISTING FEEDER FED FROM STADIUM EAST PANEL TO EXISTING 15KVA TRANSFORMER/PANELBOARD SL2 (SOFTBALL PRESSBOX) TO REMAIN. ALTERNATE LC-4: DISCONNECT AND REMOVE FEEDER, CONNECT 15 KVA TRANSFORMER TO NEW PANEL AS INDICATED ON ES102 AND E-902.
 - 17. EXISTING STADIUM EAST PANEL TO REMAIN.
 - 18. DISCONNECT AND REMOVE EXISTING BRANCH CIRCUITS FED FROM SOFTBALL PRESSBOX PANEL SL2 TO TICKET BOOTH COMPLETE.
 - 19. EXISTING FEEDER FED FROM FBMOP TO STADIUM EAST PANEL TO REMAIN AND BE EXTENDED.
 - 20. EXISTING FOOTBALL FIELD LIGHTING CIRCUIT TO REMAIN.
 - 21. EXISTING POWER/TELECOMMUNICATIONS OUTLET BOX TO REMAIN.
 - 22. EXISTING RACEWAY SYSTEM AND CONDUCTORS FEEDING FOOTBALL FIELD POWER/TELECOMMUNICATIONS OUTLET BOXES, PLAY CLOCKS AND SCOREBOARD TO REMAIN.
 - 23. EXISTING JUNCTION BOX FEEDING FOOTBALL FIELD POWER/TELECOMMUNICATIONS BOXES, PLAY CLOCKS AND SCOREBOARD TO BE REMOVED. EXISTING UNDERGROUND CONDUITS AND WIRE WILL REMAIN AND BE EXTENDED AND CONNECTED TO NEW PANELBOARDS.
 - 24. EXISTING PARKING LOT LIGHT POLE AND BASE TO REMAIN.
 - 25. EXISTING PARKING LOT LIGHTING CONDUIT AND WIRE TO REMAIN.
 - 26. EXISTING TENNIS COURT LIGHTING POLE AND FIXTURES TO REMAIN.
 - 27. EXISTING TENNIS COURT LIGHTING CONDUIT AND WIRE TO REMAIN.
 - 28. BASE BID: DISCONNECT AND REMOVE EXISTING TENNIS COURT LIGHTING POLE AND FIXTURES. ALTERNATE BID LC-6: RELOCATE POLE, FIXTURES AND INSTALL NEW BASE.
 - 29. BASE BID: DISCONNECT EXISTING TENNIS COURT LIGHTING CONDUIT AND WIRE. ALTERNATE BID LC-6: EXTEND CONDUIT AND WIRE TO NEW LOCATION FOR EXISTING POLE.
 - 30. DISCONNECT AND REMOVE EXISTING FOOTBALL FIELD LIGHTING CONDUIT AND WIRE COMPLETE.
 - 31. INTERCEPT AND MODIFY EXISTING FEEDER FROM FBMOP TO EXISTING CONCESSION BUILDING PANEL FH2.
 - 32. DISCONNECT AND REMOVE ALL ELECTRICAL ITEMS FROM EXISTING BUILDING TO BE DEMOLISHED.

2A PARTIAL SITE DEMOLITION PLAN - WEST
1" = 40'-0"

SCHMIDT

ASSOCIATES
415 Massachusetts Avenue
Indianapolis, Indiana 46204
www.schmidt-arch.com

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Project Date 04-18-2016
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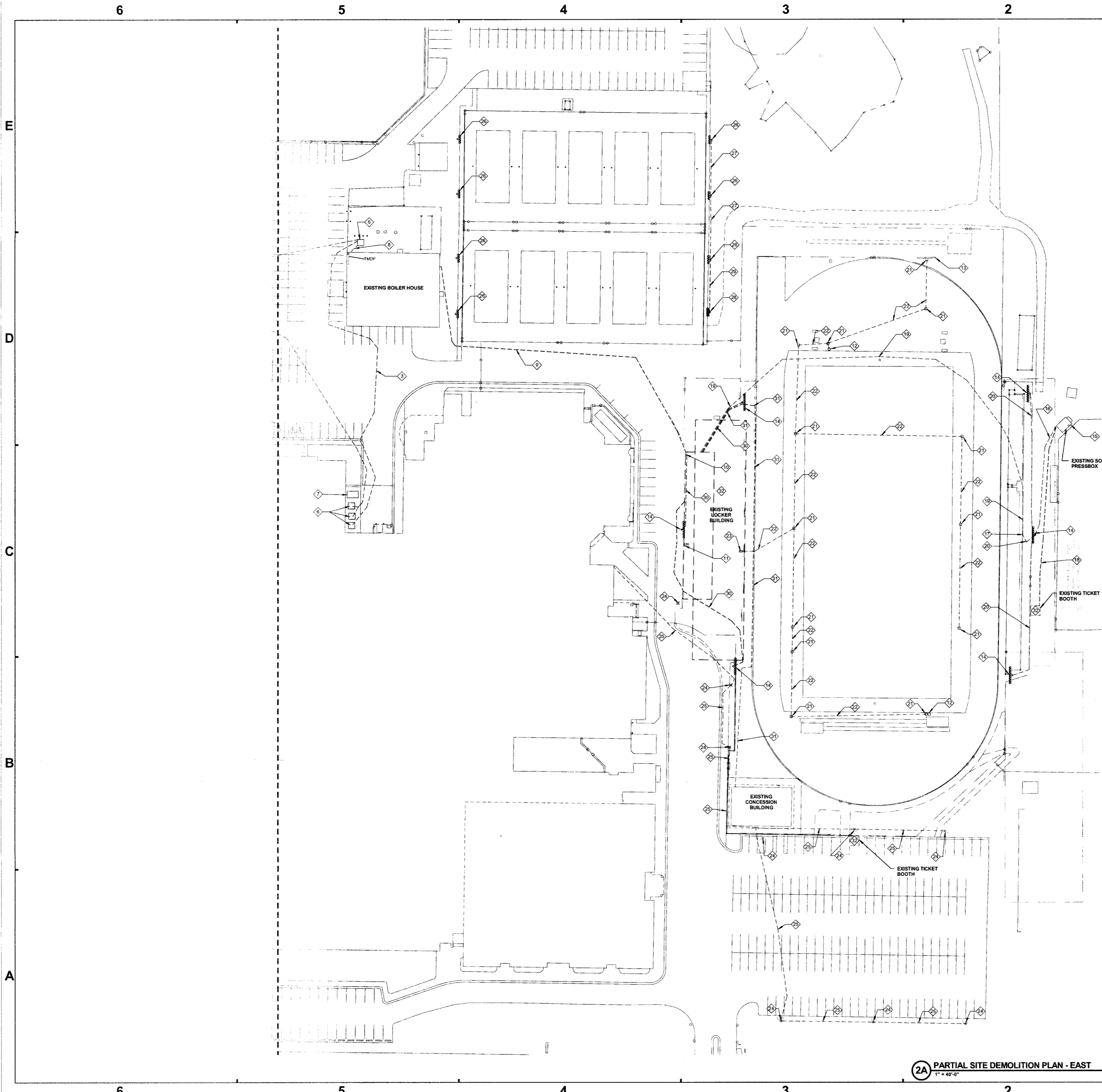
7300 E. 56th Street
Indianapolis, IN 46226

KEY PLAN

MSD OF LAWRENCE TOWNSHIP

LC EXTERIOR FACILITY UPGRADES - BP2

PARTIAL SITE DEMOLITION PLAN - WEST
ED101



- GENERAL SITE DEMOLITION NOTES**
- A. REFER TO SHEET E-201 FOR ADDITIONAL INFORMATION.
 - B. THIS DRAWING REPRESENTS INFORMATION OBTAINED FROM ORIGINAL CONTRACT DRAWINGS AND FIELD SURVEY. VERIFY BY ON-SITE OBSERVATION THE EXTENT OF WORK PRIOR TO SUBMISSION OF BID.
 - C. CONTRACT DOCUMENTS CONSIST OF BOTH PROJECT MANUAL AND DRAWINGS AND ARE MEANT TO BE COMPLEMENTARY. ANYTHING APPEARING ON EITHER MUST BE EXECUTED THE SAME AS IF SHOWN ON BOTH.
 - D. THOROUGHLY EXAMINE THE WORK OF OTHER CONTRACTORS AND PROPERLY INSTALL ALL WORK REQUIRED FOR THE PROJECT.
 - E. THE OWNER HOLDS RIGHT OF FIRST REFUSAL FOR ALL DEMOLISHED ELECTRICAL EQUIPMENT.
 - F. ALL ELECTRICAL ITEMS SHOWN WITH LIGHT UNBROKEN ARE EXISTING TO REMAIN.
 - G. REMOVE ALL ELECTRICAL ITEMS SHOWN WITH BOLDED LINEWORK COMPLETE.
 - H. COORDINATE AND DISCONNECT ALL ARCHITECTURAL, MECHANICAL, AND PLUMBING EQUIPMENT AS NOTED FOR REMOVAL BY OTHERS. REMOVE ALL ASSOCIATED ELECTRICAL EQUIPMENT, RACEWAYS, CONDUCTORS, ETC. SERVING THE EQUIPMENT.
 - I. PROVIDE ALL CUTTING AND PATCHING AS REQUIRED FOR THE REMOVAL OF EXISTING ELECTRICAL EQUIPMENT. REFER TO SPECIFICATIONS.
- SITE DEMOLITION PLAN NOTES**
- 1. EXISTING IPAL OVERHEAD PRIMARY AND POLES TO REMAIN.
 - 2. EXISTING IPAL PAD-MOUNTED SWITCH TO REMAIN.
 - 3. EXISTING IPAL UNDERGROUND PRIMARY TO REMAIN.
 - 4. EXISTING PULL BOX TO REMAIN.
 - 5. INTERCEPT EXISTING PRIMARY AND MODIFY AS INDICATED ON E-101.
 - 6. EXISTING IPAL PAD-MOUNTED TRANSFORMER TO REMAIN.
 - 7. EXISTING GENERATOR TO REMAIN.
 - 8. EXISTING SECONDARY TO TMDP TO REMAIN.
 - 9. DISCONNECT AND REMOVE EXISTING CONDUCTORS FROM TMDP (BOILER HOUSE) TO FBMP (CONCESSION BUILDING). CAP CONDUITS AND ABANDON IN PLACE.
 - 10. DISCONNECT AND REMOVE EXISTING POWER DISTRIBUTION PANELBOARD FBMP AND FOOTBALL FIELD LIGHTING CONTACTORS, CONDUIT, WIRE, ETC. COMPLETE.
 - 11. DISCONNECT AND REMOVE EXISTING PANELBOARDS AND TRANSFORMERS FED FROM FBMP AND CONDUIT, WIRE, ETC. COMPLETE.
 - 12. EXISTING PLAY CLOCK TO REMAIN.
 - 13. BASE BID: EXISTING SCOREBOARD TO REMAIN. ALTERNATE BID LC-7: DISCONNECT AND REMOVE ALL CONDUIT AND WIRE FOR THE RELOCATION OF THE SCOREBOARD.
 - 14. EXISTING FOOTBALL FIELD LIGHTING POLE AND FIXTURES TO REMAIN.
 - 15. EXISTING PANELBOARD SL2 AND 15KVA TRANSFORMER FED FROM STADIUM EAST PANELBOARD TO REMAIN.
 - 16. BASE BID: EXISTING FEEDER FED FROM STADIUM EAST PANEL TO EXISTING 15KVA TRANSFORMER/PANELBOARD SL2 (SOFTBALL PRESSBOX) TO REMAIN. ALTERNATE LC-4: DISCONNECT AND REMOVE FEEDER, CONNECT 15 KVA TRANSFORMER TO NEW PANEL AS INDICATED ON E-102 AND E-402.
 - 17. EXISTING STADIUM EAST PANEL TO REMAIN.
 - 18. DISCONNECT AND REMOVE EXISTING BRANCH CIRCUITS FED FROM STADIUM EAST PANELBOARD SL2 TO TICKET BOOTH COMPLETE.
 - 19. EXISTING FEEDER FED FROM FBMP TO STADIUM EAST PANEL TO REMAIN AND BE EXTENDED.
 - 20. EXISTING FOOTBALL FIELD LIGHTING CIRCUIT TO REMAIN.
 - 21. EXISTING POWER/TELECOMMUNICATIONS OUTLET BOX TO REMAIN.
 - 22. EXISTING RACEWAY SYSTEM AND CONDUCTORS FEEDING FOOTBALL FIELD POWER/TELECOMMUNICATIONS OUTLET BOXES, PLAY CLOCKS AND SCOREBOARD TO REMAIN.
 - 23. EXISTING JUNCTION BOX FEEDING FOOTBALL FIELD POWER/TELECOMMUNICATIONS BOXES, PLAY CLOCKS AND SCOREBOARD TO BE REMOVED. EXISTING UNDERGROUND CONDUITS AND WIRE WILL REMAIN AND BE EXTENDED AND CONNECTED TO NEW PANELBOARDS.
 - 24. EXISTING PARKING LOT LIGHT POLE AND BASE TO REMAIN.
 - 25. EXISTING PARKING LOT LIGHTING CONDUIT AND WIRE TO REMAIN.
 - 26. EXISTING TENNIS COURT LIGHTING POLE AND FIXTURES TO REMAIN.
 - 27. EXISTING TENNIS COURT LIGHTING CONDUIT AND WIRE TO REMAIN.
 - 28. BASE BID: DISCONNECT AND REMOVE EXISTING TENNIS COURT LIGHTING POLE AND FIXTURES. ALTERNATE BID LC-5: RELOCATE POLE, FIXTURES AND INSTALL NEW BASE.
 - 29. BASE BID: DISCONNECT EXISTING TENNIS COURT LIGHTING CONDUIT AND WIRE. ALTERNATE BID LC-5: EXTEND CONDUIT AND WIRE TO NEW LOCATION FOR EXISTING POLE.
 - 30. DISCONNECT AND REMOVE EXISTING FOOTBALL FIELD LIGHTING CONDUIT AND WIRE COMPLETE.
 - 31. INTERCEPT AND MODIFY EXISTING FEEDER FROM FBMP TO EXISTING CONCESSION BUILDING PANEL FH2.
 - 32. DISCONNECT AND REMOVE ALL ELECTRICAL ITEMS FROM EXISTING BUILDING TO BE DEMOLISHED.

2A PARTIAL SITE DEMOLITION PLAN - EAST
1" = 40'-0"

SCHMIDT ASSOCIATES
415 Massachusetts Avenue
Indianapolis, Indiana 46204
www.schmidt-arch.com

Project No. 2015-121 LCS
Project Date 04.18.2016
Produced JAR

STATE OF INDIANA
ARCHITECT
No. 32631
WJS

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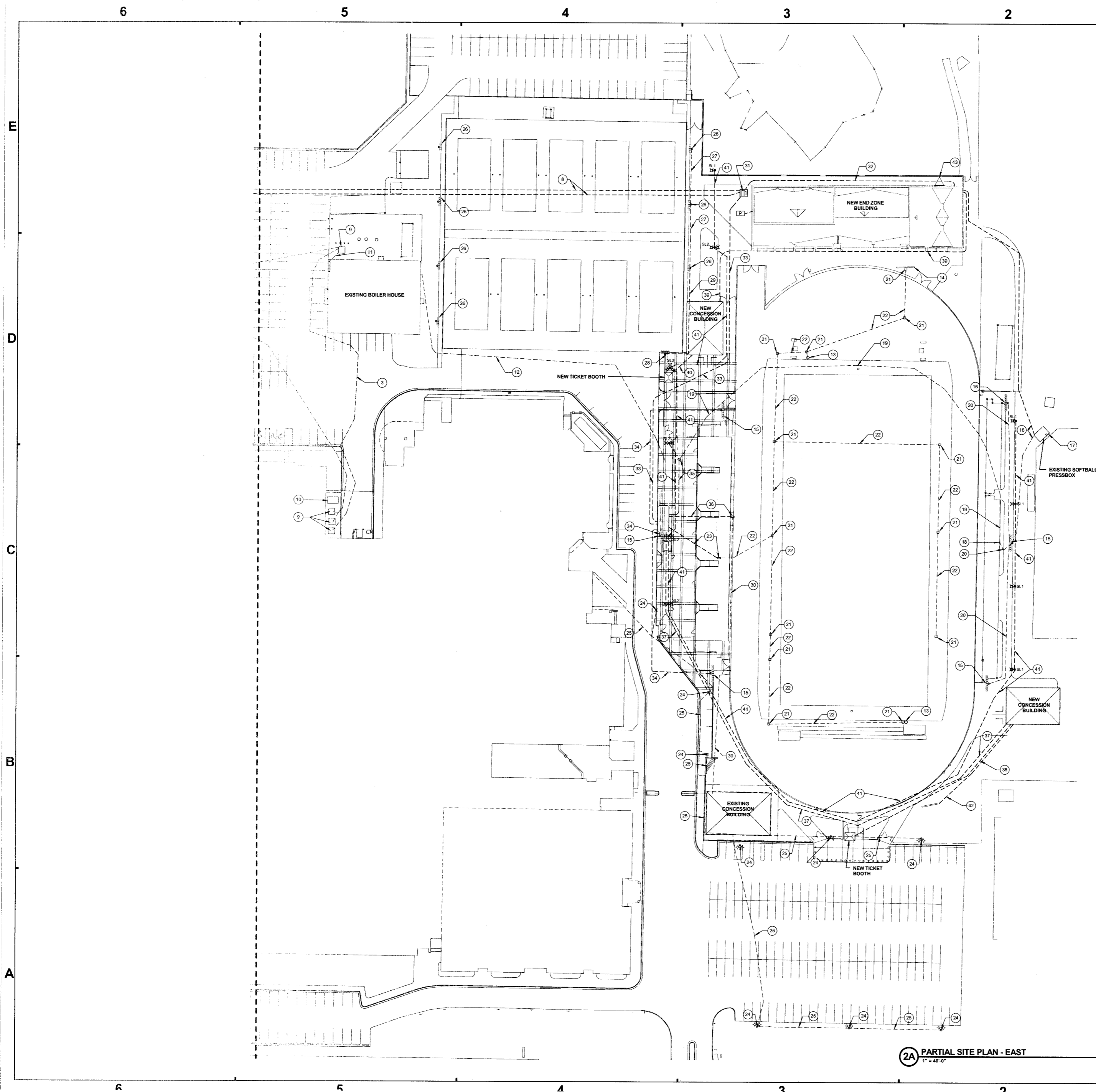
KEY PLAN

MSD OF LAWRENCE TOWNSHIP

LC EXTERIOR FACILITY UPGRADES - BP2

PARTIAL SITE DEMOLITION PLAN - EAST

ED102



GENERAL SITE NOTES

- | | |
|---|--|
| A | REFER TO SHEET E-001 FOR ADDITIONAL INFORMATION |
| B | ALL ELECTRICAL ITEMS SHOWN WITH LIGHT LINEWORK ARE EXISTING TO REMAIN |
| C | ALL ELECTRICAL ITEMS SHOWN WITH BOLD LINEWORK ARE NEW |
| D | COORDINATE WITH IPM ALL REQUIREMENTS FOR THE INSTALLATION OF NEW ELECTRICAL SERVICES. INCLUDE IN BID ALL UTILITY FEES REQUIRED TO ESTABLISH SERVICES. CONTACT MS. JACKIE BULTMAN AT 317-261-5267 |

SITE PLAN NOTES

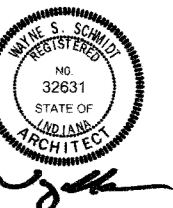
- 1 EXISTING IPAL OVERHEAD PRIMARY AND POLES TO REMAIN.
 - 2 EXISTING IPAL PAD-MOUNTED SWITCH TO REMAIN.
 - 3 EXISTING IPAL UNDERGROUND PRIMARY TO REMAIN.
 - 4 EXISTING ILLUM. BOX TO REMAIN AND BE MODIFIED AS INDICATED
 - 5 INSTALL 1"x4" CONDUIT FROM EXISTING PULL BOX AND NEW MUX BOX FOR THE INSTALLATION OF NEW PRIMARY. CONTRACTOR HAS OPTION TO DISCRETELY BORE OR TRENCH FOR NEW PRIMARY. CONTRACTOR TO DETERMINE.
 - 6 INSTALL 1"x4" CONDUIT BETWEEN NEW PULL BOXES FOR THE INSTALLATION OF NEW PRIMARY CONDUCTORS. CONDUIT TO BE DIRECTED ROW OR TRNCH FOR THE CONDUIT INSTALLATION.
 - 7 INTERCEPT EXISTING UNDERGROUND PRIMARY CONDUIT AND INSTALL A NEW PULL TO BURNING
 - 8 DIRECTIONAL BORE "C" CONDUIT FOR PRIMARY CONDUCTORS TO NEW PAD-MOUNTED TRANSFORMER. COORDINATE WITH ALL EXISTING UTILITIES PRIOR TO BORING.
 - 9 EXISTING IPAL PAD-MOUNTED TRANSFORMER TO REMAIN
 - 10 EXISTING GENERATOR TO REMAIN
 - 11 EXISTING CONDUIT TO KEEP TO REMAIN
 - 12 ABANDONED CONDUITS.
 - 13 EXISTING PLAY COURT TO REMAIN
 - 14 EXISTING SCOREBOARD TO REMAIN
 - 15 EXISTING FOOTBALL FIELD LIGHTING POLE AND FIXTURES TO REMAIN.
 - 16 BASE BID: EXISTING FEEDER FID FROM STADIUM EAST PANEL TO EXISTING 13KV/4KVA TRANSFORMER. INCLUDE IN-BUILDING JUNCTION BOX AND SCHEDULED RACEWAY AND SCOREBOARD TO NEW PANELBOARD. CONNECT 15 KVA TRANSFORMER TO NEW PANELBOARD.
 - 17 EXISTING PANELBOARD #L2 AND 15KVA TRANSFORMER FID FROM STADIUM EAST PANELBOARD TO REMAIN.
 - 18 EXISTING STADIUM EAST PANEL TO REMAIN.
 - 19 EXISTING FEEDER FID FROM STADIUM EAST PANEL TO REMAIN AND BE EXTENDED.
 - 20 EXISTING FOOTBALL FIELD LIGHTING LIGHTING OUTLET BOX TO REMAIN.
 - 21 EXISTING POWER/TELECOMMUNICATIONS OUTLET BOX TO REMAIN.
 - 22 EXISTING RACEWAY SYSTEM AND CONDUCTORS FEEDING FOOTBALL FIELD LIGHTING OUTLET BOX TO REMAIN. TERMINATE CONDUITS AND SCOREBOARD TO REMAIN.
 - 23 INSTALL GRADE MOUNTED JUNCTION BOX AND EXTEND EXISTING CONDUCTORS FEEDING FOOTBALL FIELD LIGHTING OUTLET BOX TO TERMINATE CONDUITS AND SCOREBOARD TO NEW PANELBOARD. INCLUDE IN-BE EXTENSION OF 48" TO TERMINATE CONDUITS ON CIRCUIT BREAKERS INDICATED FOR CIRCUITS IN PANELS 140P AND 140DP.
 - 24 EXISTING PARKING LOT LIGHT POLE AND BASE TO REMAIN
 - 25 EXISTING PARKING LOT LIGHTING CONDUIT AND WIRE TO REMAIN
 - 26 EXISTING TENNIS COURT LIGHTING POLE AND FIXTURES TO REMAIN.
 - 27 EXISTING TENNIS COURT LIGHTING CONDUIT AND WIRE TO REMAIN
 - 28 BASE BID: DISCONNECT AND REMOVE EXISTING TENNIS COURT LIGHTING POLE AND FIXTURES. ALTERNATE BID C-5: RELOCATE POLE, FIXTURES AND INSTALL NEW BASE.
 - 29 ALTERNATE BID C-5: EXTEND EXISTING CONDUIT AND WIRE TO NEW LOCATION. DISCONNECT TENNIS COURT LIGHTING POLE AND FIXTURE. MATCH EXISTING CONDUIT AND WIRE SIZE.
 - 30 INTERCEPT AND MODIFY EXISTING FEEDER FROM FMFP TO EXISTING CONCEALED BUILDING PENETRATIONS TO REMAIN
 - 31 NEW PAD-MOUNTED UTILITY TRANSFORMER PROVIDED AND INSTALLED BY IPAL. CONTRACTOR TO PROVIDE ALL NECESSARY WORK AND MATERIALS REQUIRED TO COMPLETE.
 - 32 SECONDARY FROM NEW PAD-MOUNTED UTILITY TRANSFORMER TO DISTRIBUTION PANELBOARD 14ADP
 - 33 SECONDARY FROM NEW PAD-MOUNTED UTILITY TRANSFORMER TO DISTRIBUTION PANELBOARD 14DPD
 - 34 INSTALL NEW UNDERGROUND CONDUIT AND WIRE FROM C-5 TO EXISTING CONCEALED SWITCH ON FOOTBALL FIELD LIGHTING POLE TO REMAIN. COMPLETE.
 - 35 BASE BID: INSTALL A GRADE-MOUNTED JUNCTION BOX AND INTERCEPT AND EXISTING FEEDER FROM STADIUM EAST PANEL TO L-C-1. ALTERNATE BID C-5: REMOVE EXISTING FEEDER FROM STADIUM EAST PANEL. EXTEND CONDUIT TO L-C-1 AND INSTALL NEW WIRE FROM STADIUM EAST PANEL, TO L-C-1.
 - 36 INSTALL NEW PAD-MOUNTED GRABBER BOX AND TWO NEW POLES AND TWO NEW EXISTING EXTENDING FEEDER FROM PH2 TO 14DDP; ALTERNATE L-6: REMOVE EXISTING WIRE COMPLETE TO PH2, EXTEND CONDUIT TO 14DDP AND INSTALL NEW WIRE FROM PH2 TO 14DDP
 - 37 INSTALL NEW UNDERGROUND FEEDER FROM 14DDP TO DISCONNECT SWITCH ON C-1. COMPLETE
 - 38 INSTALL NEW UNDERGROUND FEEDER FROM 12C1 TO 12C2
 - 39 INSTALL NEW UNDERGROUND FEEDER FROM 14DDP TO DISCONNECT SWITCH ON C-1. COMPLETE
 - 40 INSTALL NEW UNDERGROUND FEEDER FROM 12B1 TO 12B2
 - 41 INSTALL F90 UNDERGROUND FOR POLE LIGHTS. CONDUIT TO 14D+16-7JH IN UNIFORM ELECTRICAL BLOCK. GROUND CONDUIT THROUGHOUT ENTIRE LENGTH. EXTEND TO POLE BASE DETAILS 3AE-501 AND 4AE-501 FOR ALL LIGHT POLES.
 - 42 ALTERNATE BID C-7: 1/2" X 20' X 20' 3 POLE, 8X6 NEMA 3R WITH (3) 60A FUSES OR RELIEVED SHORT CIRCUIT PROTECTIVE DEVICES. 10' CIRCULAR BREAKER IN PANEL 12C1-33.33.33.33 WITH 750 BRANCH CIRCUIT. FIELD VERIFY EXACT ELECTRICAL EQUIVMENTS.
- TRIANGLING TRIANGLE

2A PARTIAL SITE PLAN - EAST
1" = 40'-0"



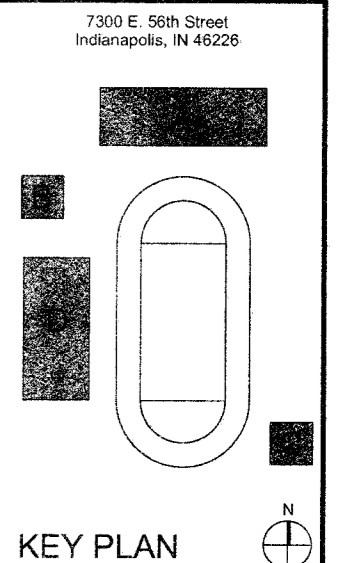
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www.schmidt-arch.com

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Project Date 04.18.2016
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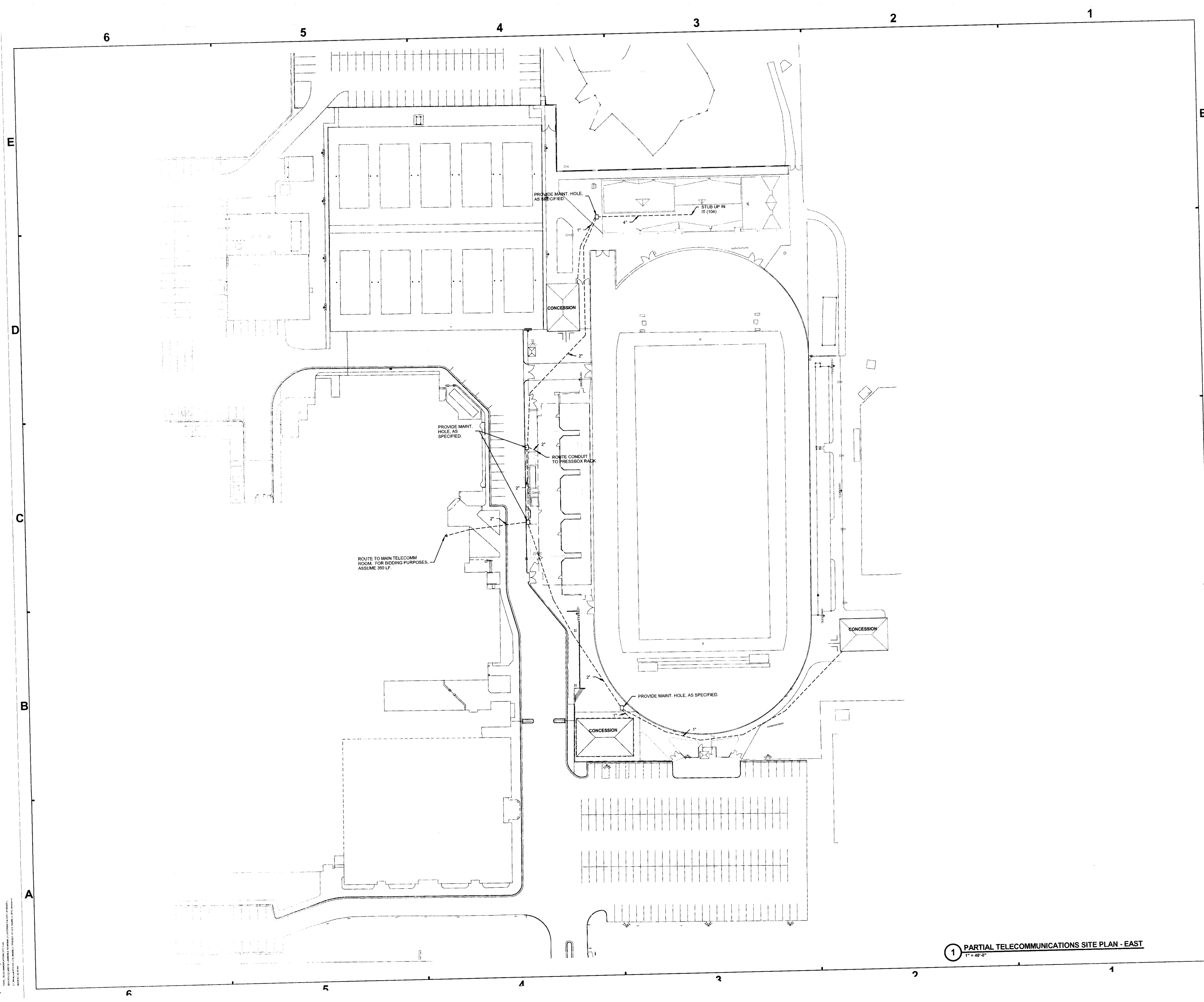


MSD OF
LAWRENCE
TOWNSHIP



PARTIAL SITE PLAN -
EAST

ES102



SCHMIDT ASSOCIATES
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www.schmidt-arch.com

Project No. 2015-121 LCS
Project Date 04.18.2016
Produced MD

WILLIAM S. SCHMIDT
REGISTERED
NO. 32631
STATE OF INDIANA
ARCHITECT

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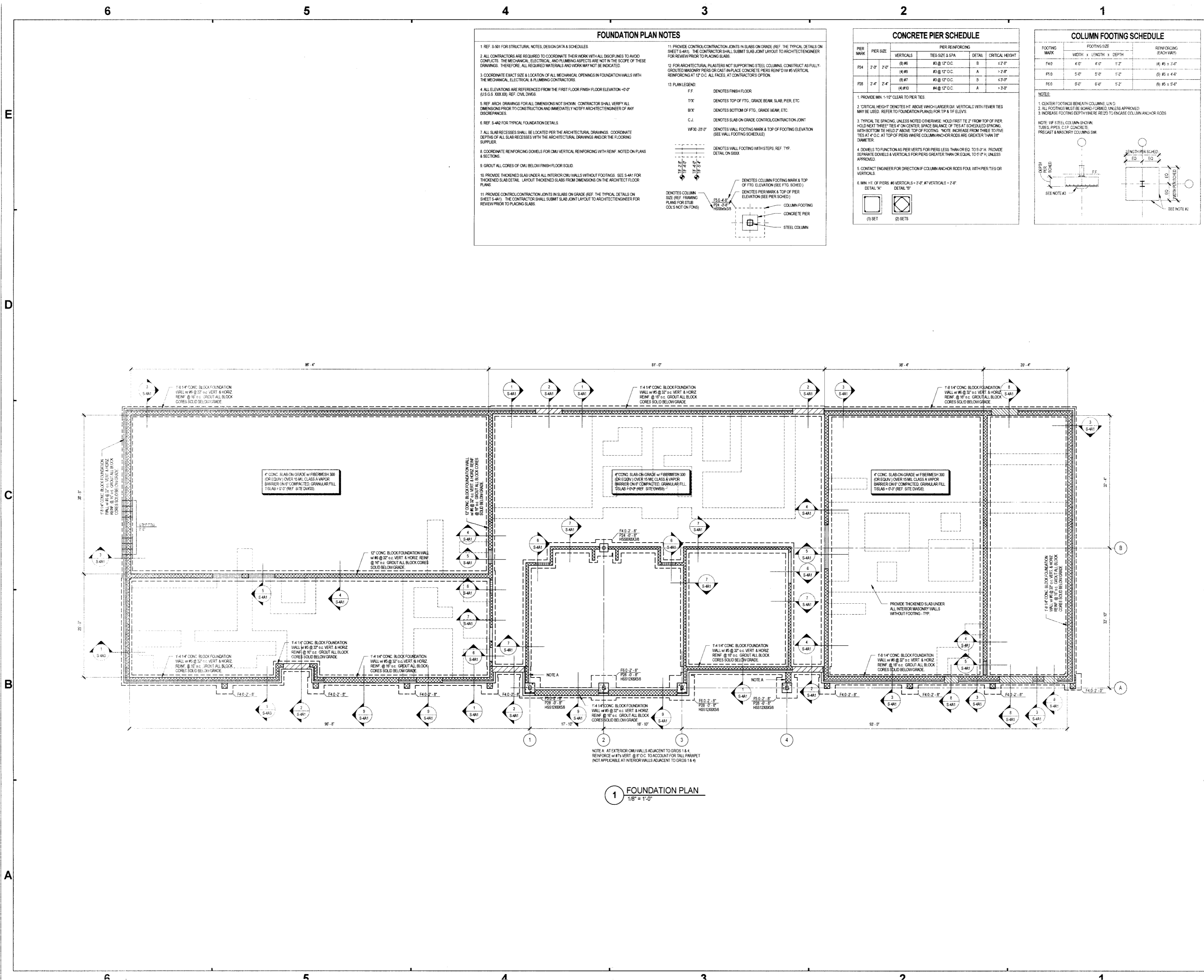
MSD OF LAWRENCE TOWNSHIP

LC EXTERIOR FACILITY UPGRADES - BP2

TELECOMMUNICATIONS SITE PLAN

TS101

1 PARTIAL TELECOMMUNICATIONS SITE PLAN - EAST
1" = 40'-0"





5

KEY PLAN



ROOF FRAMING PLAN



SF1A2



LINTEL SCHEDULE	
MARK	SIZE
L-1	W6X15 w/ 3/8"x1'-7" PL
L-2	W6X31 w/ 3/8"x1'-3" PL
L-3	W6X15 w/ 3/8"x1'11" PL
L-4	W6X15 w/ 3/8"x1'-3" PL
L-5	W6X31 w/ 3/8"x1'-7" PL

6

5

4

3

2

1

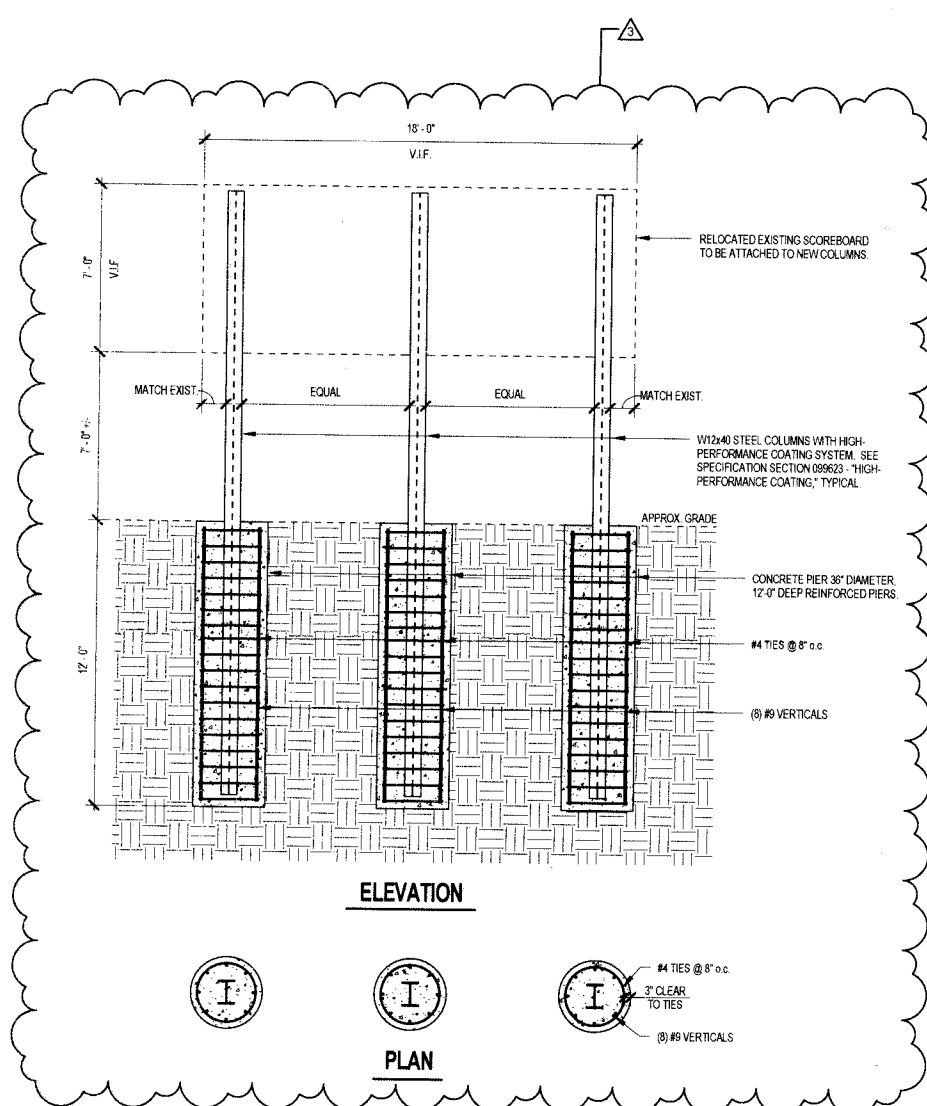
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D

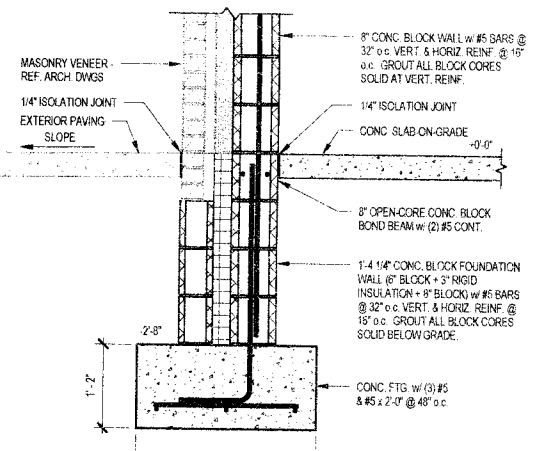
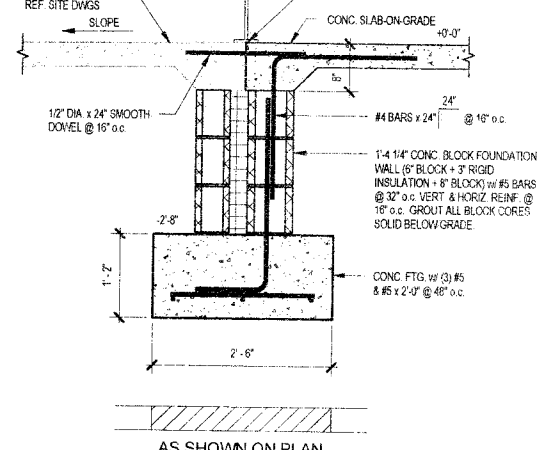
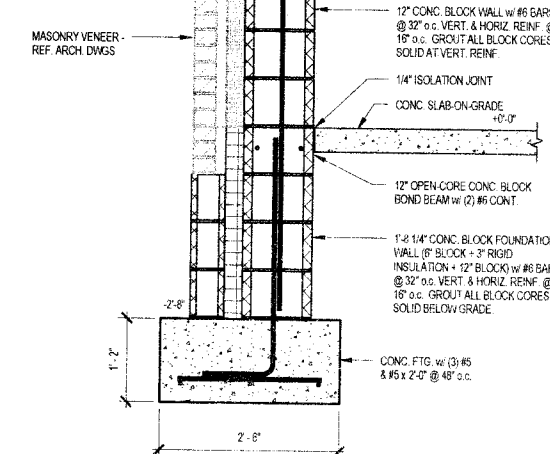
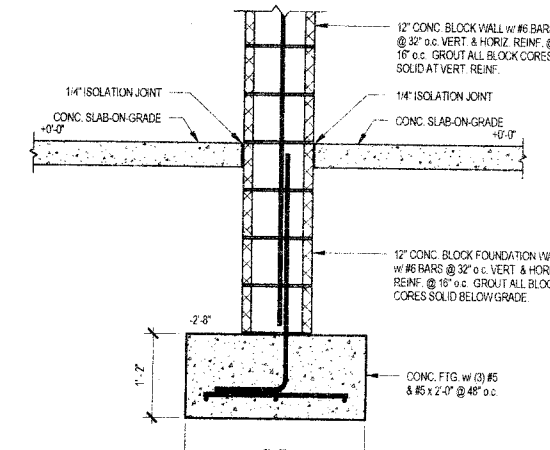
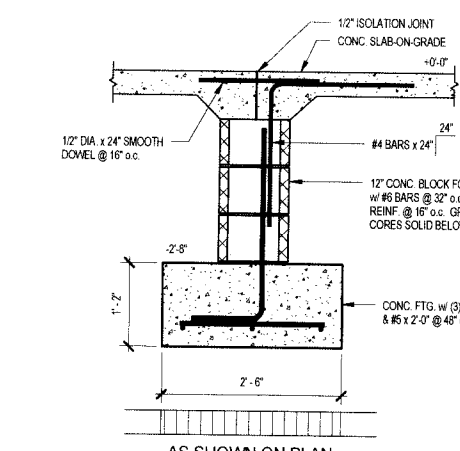
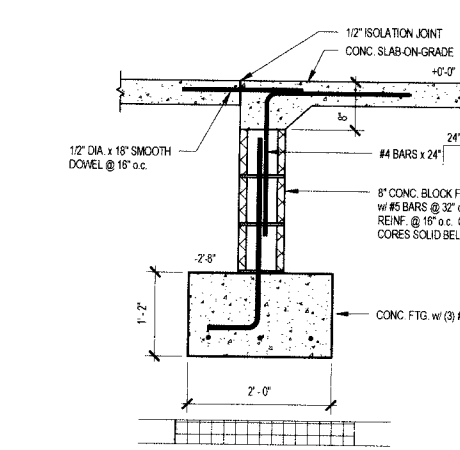
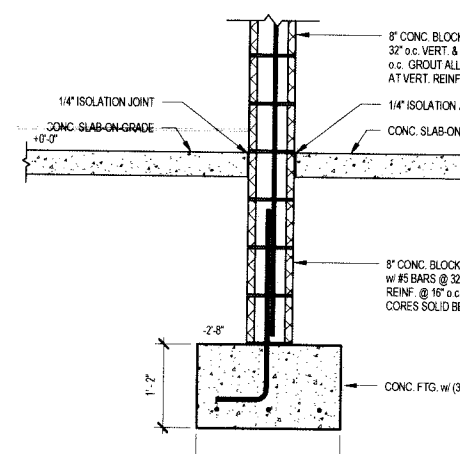
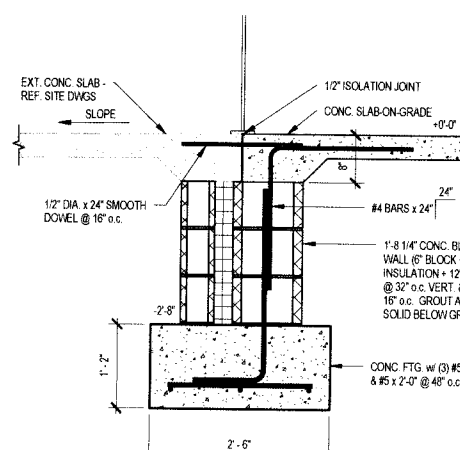
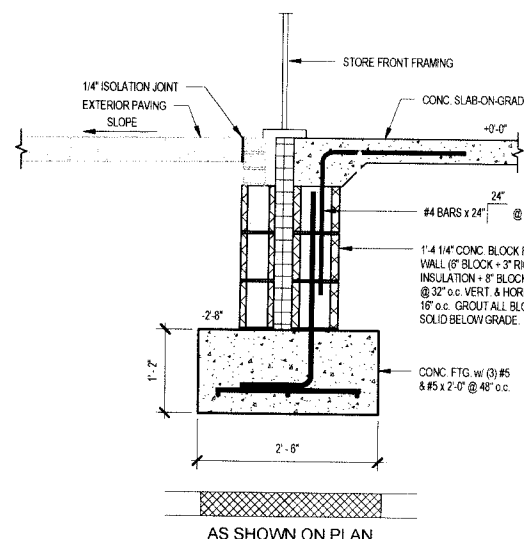
C

B

A



10 RELOCATED SCOREBOARD STRUCTURE
1/4" = 1'-0"



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Project No. 2015-121.LCS
Project Date 04.18.2016
Produced JNB:WSH



Wesley B. Harmon
Professional Engineer

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Revision	Date
ADDENDUM # 3	05.12.2016

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B

D

B

KEY PLAN



MSD OF
LAWRENCE
TOWNSHIP



LC EXTERIOR
FACILITY
UPGRADES - BP2

FOUNDATION SECTIONS

S-4A1

6

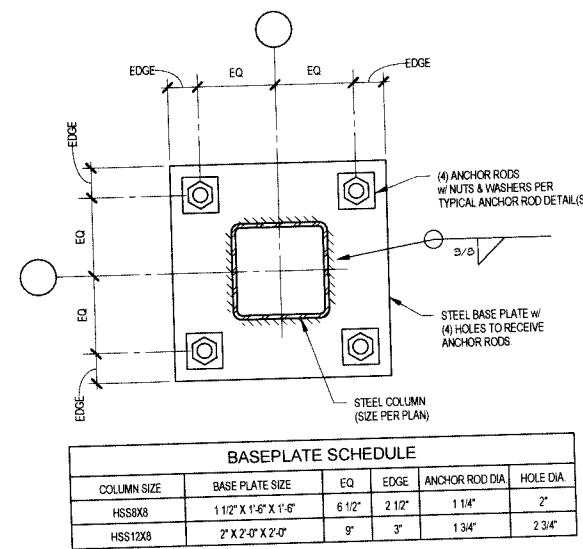
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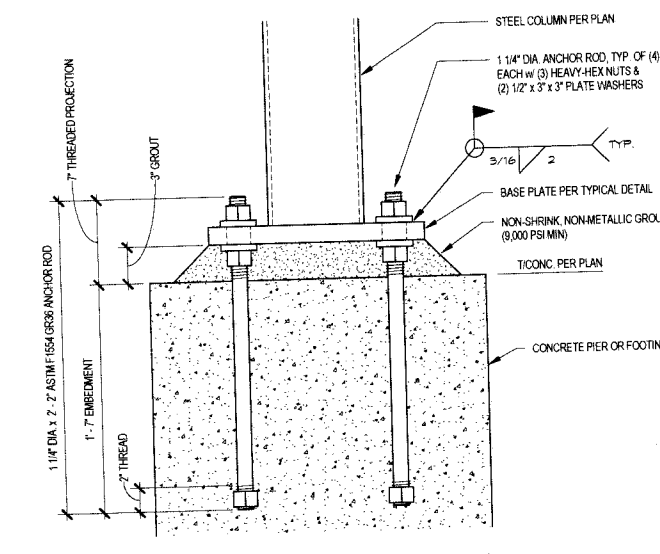
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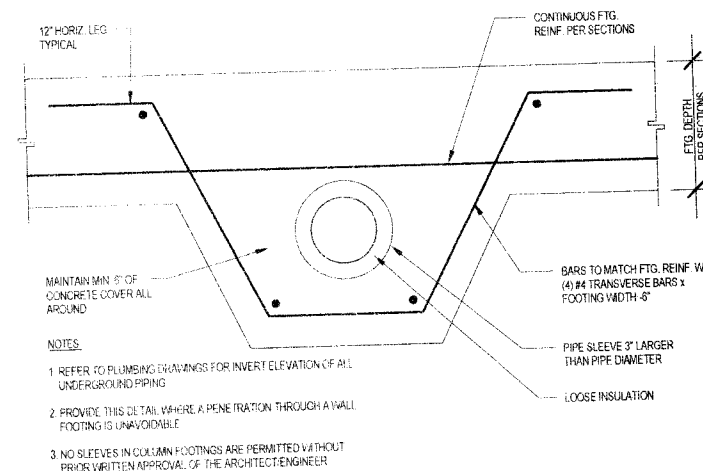
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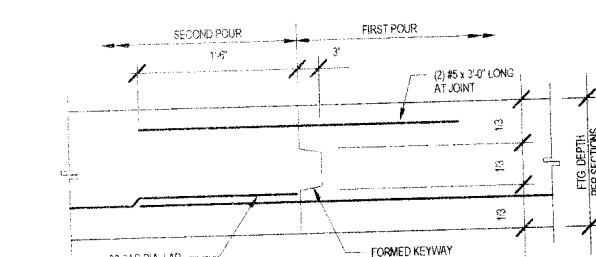
12 TYPICAL COLUMN BASE PLATE PLAN DETAIL
1 1/2" = 1'-0"



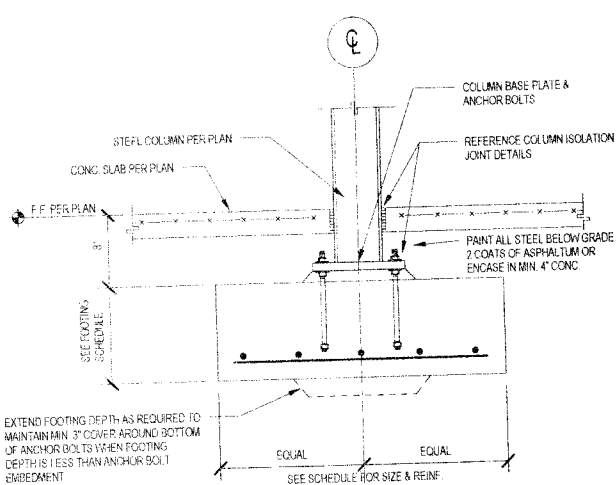
11 TYPICAL 1 1/4" DIA. ANCHOR ROD DETAIL
1 1/2" = 1'-0"



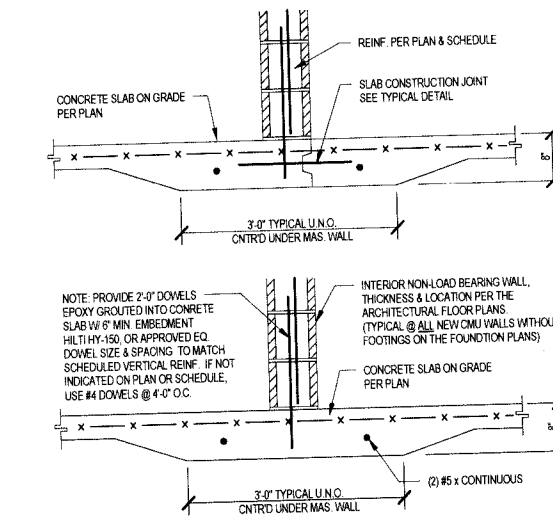
15 WALL FOOTING SLEEVE DETAIL
1" = 1'-0"



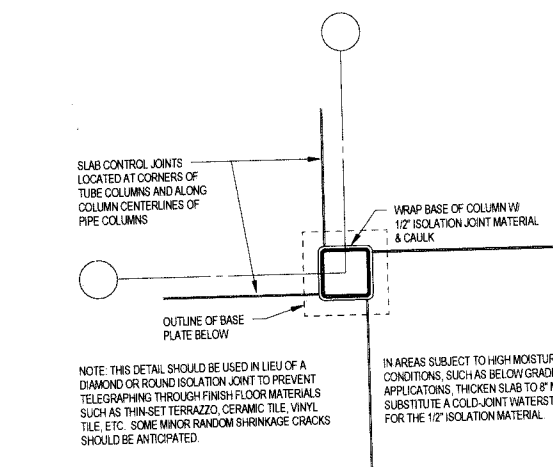
14 WALL FOOTING CONSTRUCTION JOINT
1" = 1'-0"



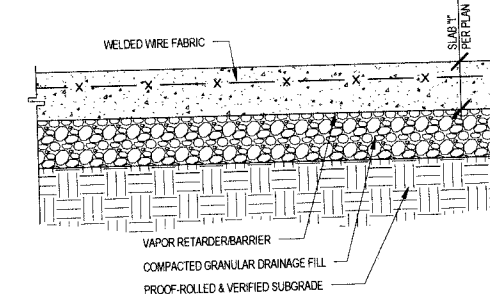
13 TYPICAL INTERIOR COLUMN FOOTING
3/4" = 1'-0"



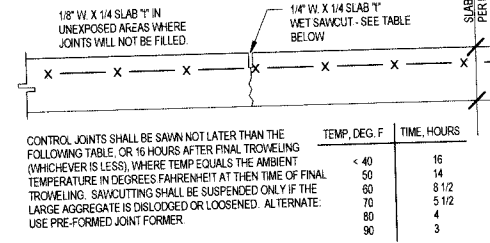
10 THICKENED SLAB AT CMU WALLS
3/4" = 1'-0"



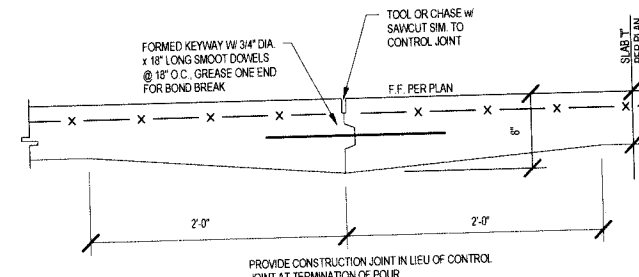
9 STEEL COLUMN ISOLATION JOINT
3/4" = 1'-0"



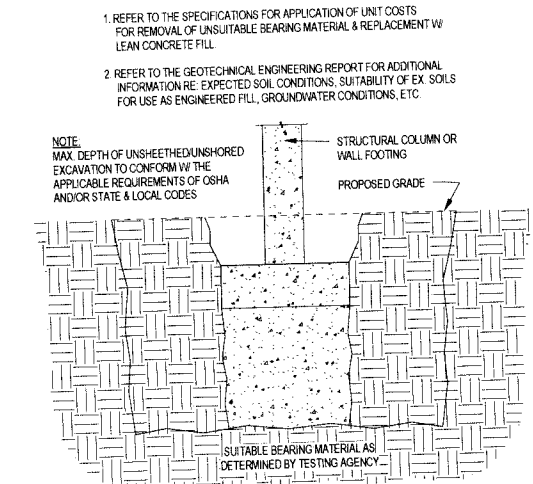
8 SLAB ON GRADE CONSTRUCTION
1" = 1'-0"



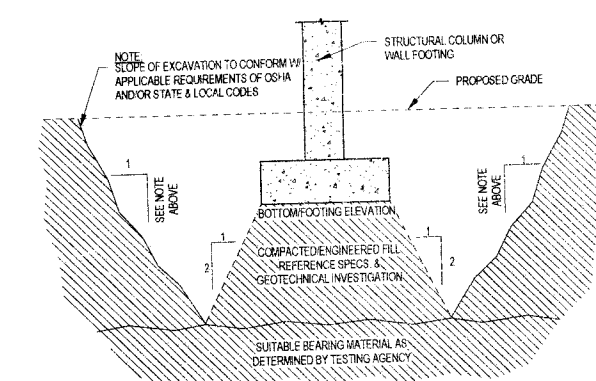
7 SLAB CONTROL/CONTRACTION JOINT
1" = 1'-0"



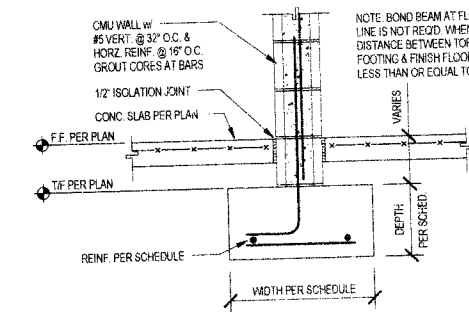
6 SLAB CONSTRUCTION JOINT
1" = 1'-0"



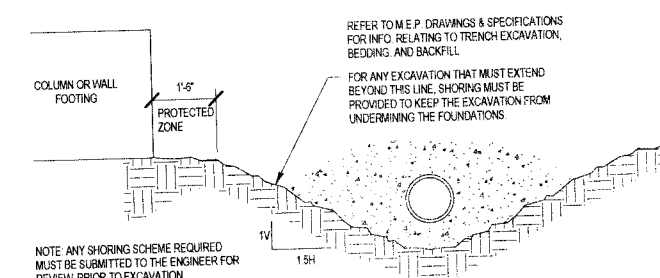
5 OVEREXCAVATION DETAIL - LEAN CONC. FILL
1/2" = 1'-0"



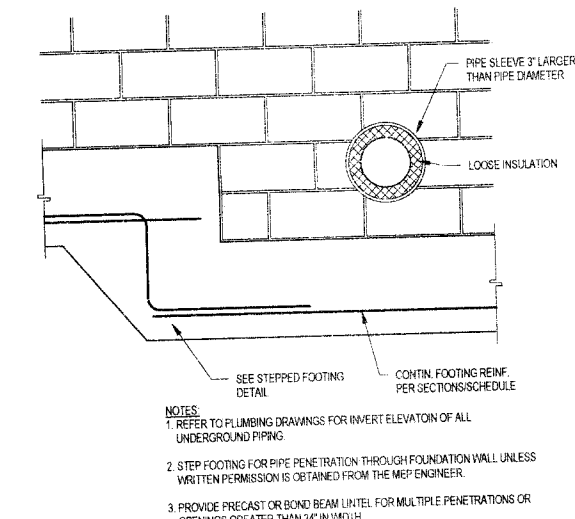
4 OVEREXCAVATION DETAIL - COMPACTED FILL
1/2" = 1'-0"



3 INTERIOR WALL FOOTING DETAIL
3/4" = 1'-0"



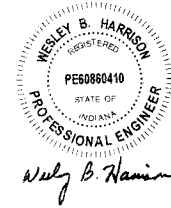
2 EXCAVATION LIMITS DETAILS
3/4" = 1'-0"



1 CMU FOUNDATION WALL PIPE SLEEVE DETAIL
3/4" = 1'-0"

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Project No. 2015-121 LCS
Project Date 04.18.2016
Produced JNB VBEH

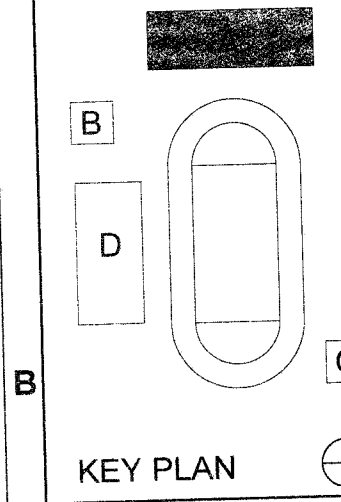


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Revision Date

#	Revision	Date

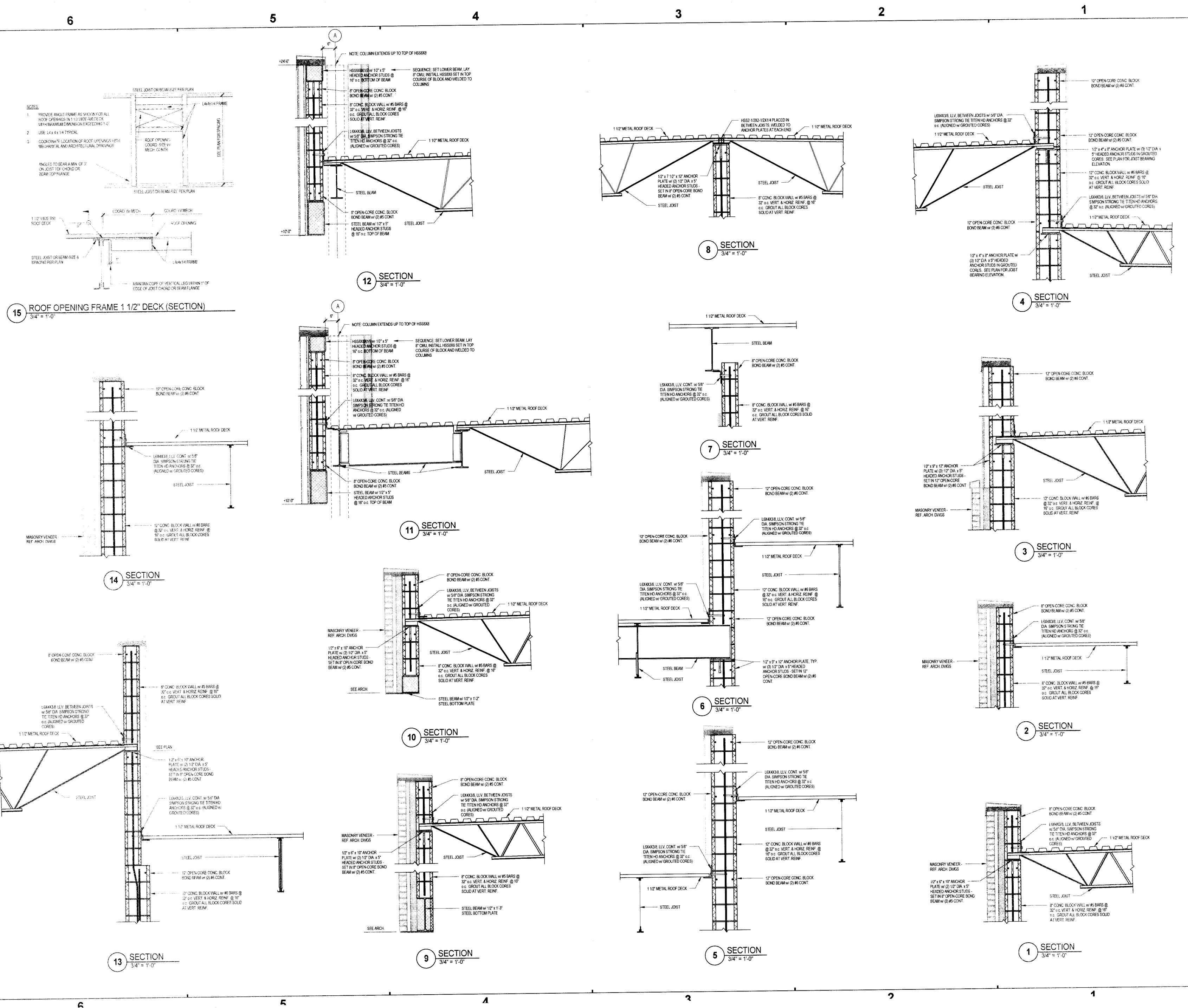
7300 E. 56th Street
Indianapolis, IN 46226



MSD OF
LAWRENCE
TOWNSHIP
LC EXTERIOR
FACILITY
UPGRADES - BP2

FOUNDATION SECTIONS
AND DETAILS

S-4A2



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Project No: 2015-121 LCS
Project Date: 04.18.2016
Produced: JNB:WBH

WILEY B. HARRISON
PROFESSIONAL ENGINEER
STATE OF INDIANA
PE00000410
Wiley B. Harrison

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B **D** **C**

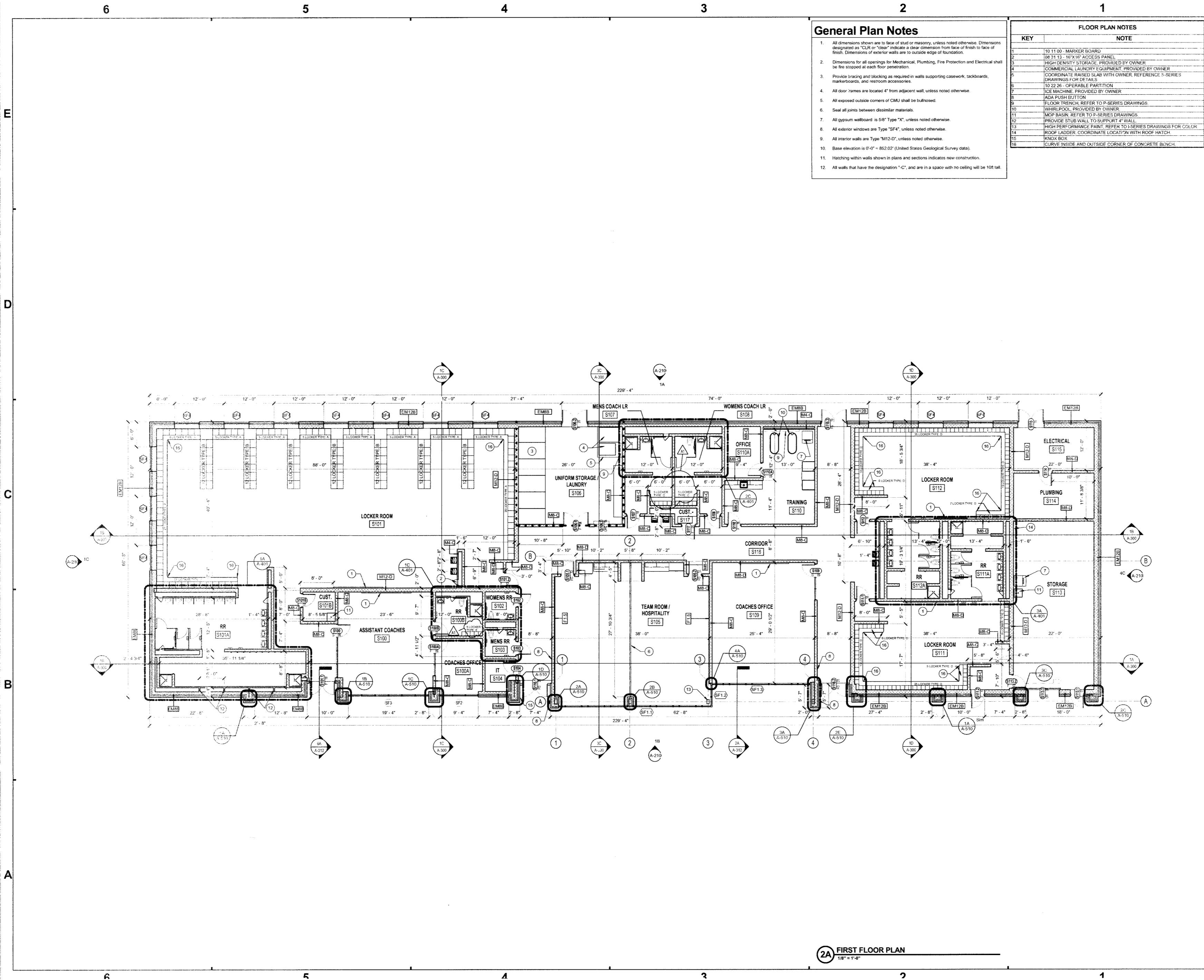
KEY PLAN

MSD OF LAWRENCE TOWNSHIP

LC EXTERIOR FACILITY UPGRADES - BP2

FRAMING SECTIONS

S-4A3

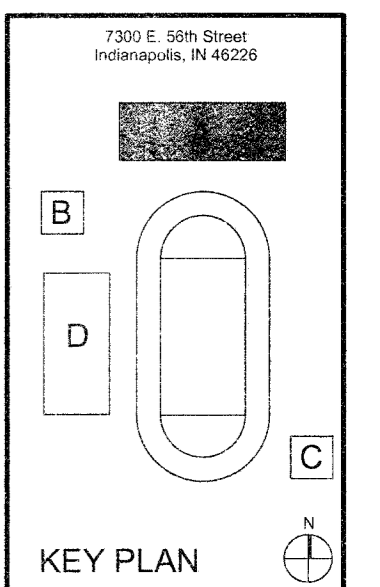


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Product BGB

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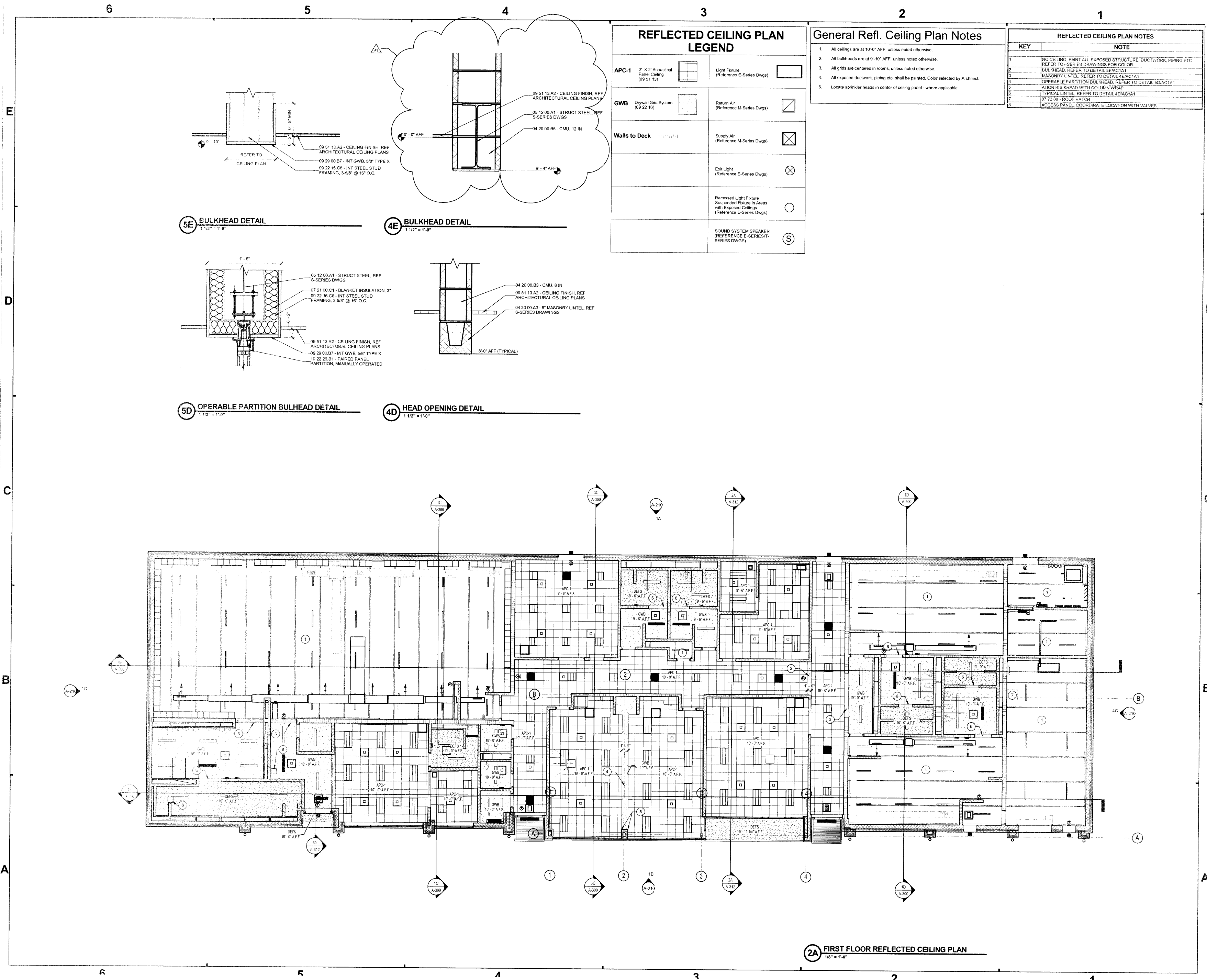
#	Revision	Date
A1	Addendum #1	04.29.2016



MSD OF
LAWRENCE
TOWNSHIP

LC EXTERIOR
FACILITY
UPGRADES - BP2

FIRST FLOOR PLAN - UNIT
A
AF1A1



REFLECTED CEILING PLAN LEGEND	
APC-1 2' X 2' Acoustical Panel Ceiling (09 51 13)	Light Fixture (Reference E-Series Dwg)
GWB Drywall Gnd System (09 22 16)	Return Air (Reference M-Series Dwg)
Walls to Deck	Supply Air (Reference M-Series Dwg)
	Exit Light (Reference E-Series Dwg)
	Recessed Light Fixture Suspended Fixture in Areas with Exposed Ceilings (Reference E-Series Dwg)
	SOUND SYSTEM SPEAKER (REFERENCE E-SERIES/ S-SERIES DWGS)

- General Refl. Ceiling Plan Notes**
- All ceilings are at 10'-0" AFF, unless noted otherwise.
 - All bulkheads are at 9'-10" AFF, unless noted otherwise.
 - All grids are centered in rooms, unless noted otherwise.
 - All exposed ductwork, piping etc. shall be painted. Color selected by Architect.
 - Locate sprinkler heads in center of ceiling panel - where applicable.

REFLECTED CEILING PLAN NOTES	
KEY	NOTE
1	NO CEILING. PAINT ALL EXPOSED STRUCTURE, DUCTWORK, PIPING ETC. REFER TO S-SERIES DRAWINGS FOR COLOR.
2	BULKHEAD. REFER TO DETAIL 5E/AC1A1
3	MASONRY LINTEL. REFER TO DETAIL 4E/AC1A1
4	OPERABLE PARTITION BULKHEAD. REFER TO DETAIL 5D/AC1A1
5	ALUMINUM BULKHEAD WITH COLUMN WRAP
6	TYPICAL LINTEL. REFER TO DETAIL 4D/AC1A1
7	07 22 00 - ROOF HATCH
8	ACCESS PANEL. COORDINATE LOCATION WITH VALVES.

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#	Revision	Date
A1	Addendum #1	04.29.2016

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KEY PLAN

MSD OF LAWRENCE TOWNSHIP

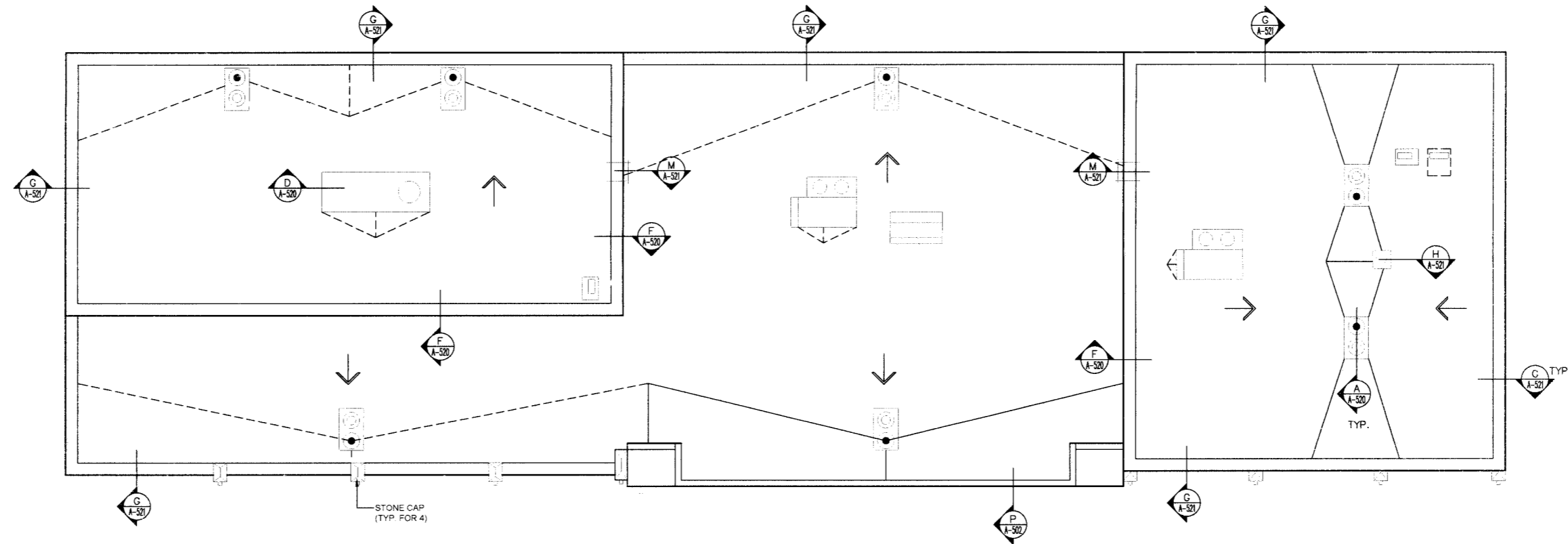
LC EXTERIOR FACILITY UPGRADES - BP2

FIRST FLOOR REFLECTED CEILING PLAN - UNIT A

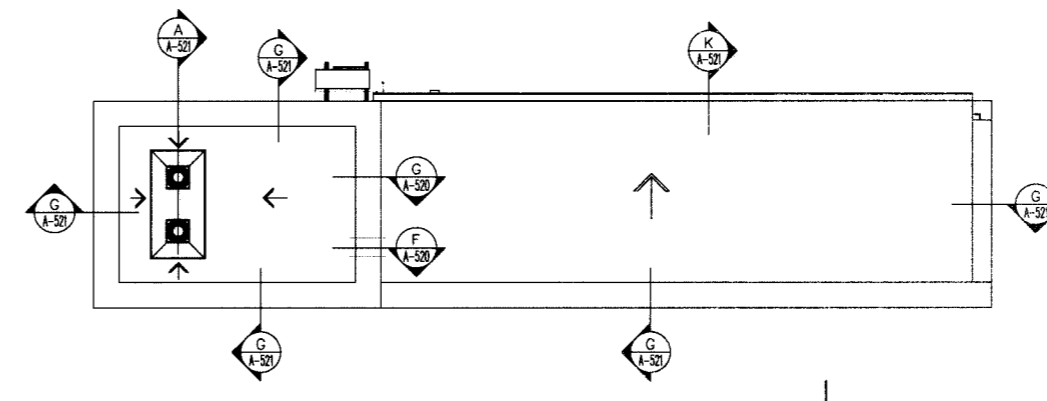
AC1A1

General Notes:

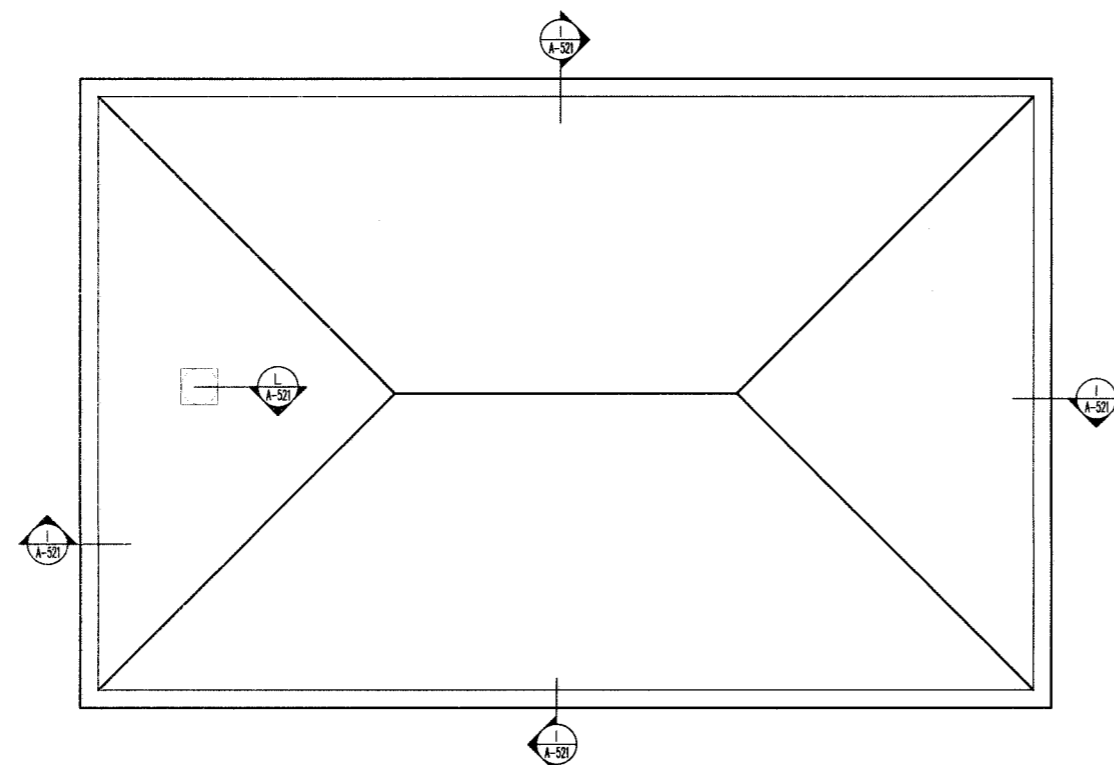
1. Install walk pads as specified, at ladders 36"x36", at roof hatch and along access panels of mechanical equipment.
2. Contractor is responsible to field verify all dimensions, calculate all quantities and suitability.
3. Install metal work, including edging, per section 1-49 of the FMG Loss Prevention data guide. Comply with the minimum requirements published by ANSI / SPRI ES-1, SMACNA and the roofing system manufacturer.
4. Inspect blocking and nailers installed by other trades prior to installation of membrane or install blocking and nailers prior to installation of membrane to insure that they have been anchored per FMG 1-49.
5. At all drains: Install minimum 4' x 8' tapered edge sumps, larger where required to achieve a maximum slope of 1:12, unless noted otherwise. (See detail)
6. The use of all peel & stick membrane is strictly prohibited.
7. Install saddles behind all units regardless of size, saddles must be of proper length, width (at least a minimum of one-half the saddle length) and slope to eliminate any ponding. All saddles / crickets shall slope to 0" at all edges.
8. Tapered insulation for crickets and saddles may be mechanically fastened or fully adhered (at Contractor's option).
9. At all soil stack locations use preformed thermoplastic pipe flashing whenever possible. Field wrapped detail requires approval of QA Inspector.
10. Verify all roof penetrations and equipment with mechanical and electrical drawings to confirm sizes and locations. Flash all penetrations per details provided for type of penetration. For penetrations not detailed, flash as required by membrane manufacturer.
11. For all gutters, down spouts, exposed counter flashings, drip edge and copings, provide colors in "Kynar Finish" to match school colors and/or other building elements as approved by Architect.
12. See elevations for downspout locations.



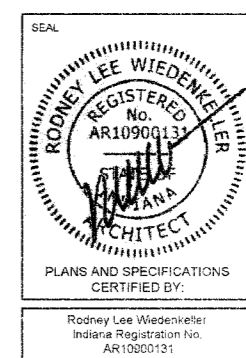
01 AR101
ROOF PLAN A
SCALE: 3/16" = 1'-0"



03 AR101
ROOF PLAN D
SCALE: 3/16" = 1'-0"



02 AR101
ROOF PLAN B AND C
SCALE: 3/16" = 1'-0"



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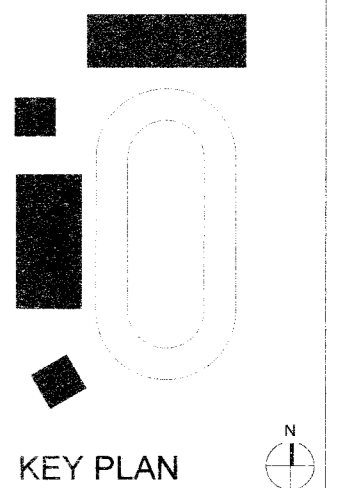
Project No. 2015.121.LCS
Project Date 04.18.2015
Produced RLV/MER

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#	Revision	Date

Moisture Management
3855 Crosspoint Blvd., Suite 100
Indianapolis, IN 46256
317.577.0910
Fax: 317.577.0912

7802 Hague Road
Indianapolis, IN 46256



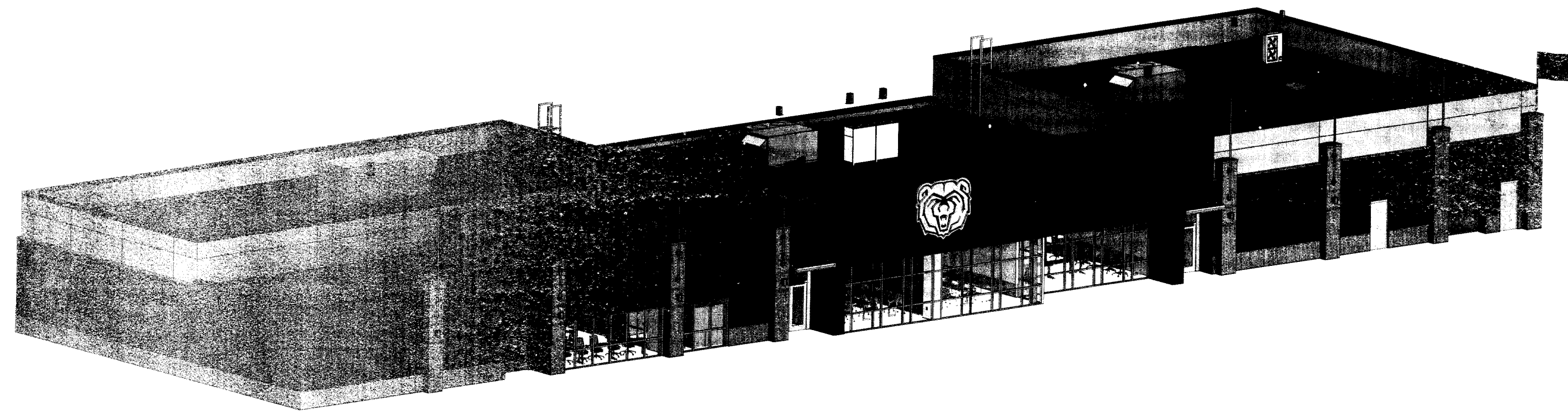
MSD OF LAWRENCE TOWNSHIP



LC EXTERIOR FACILITY UPGRADES

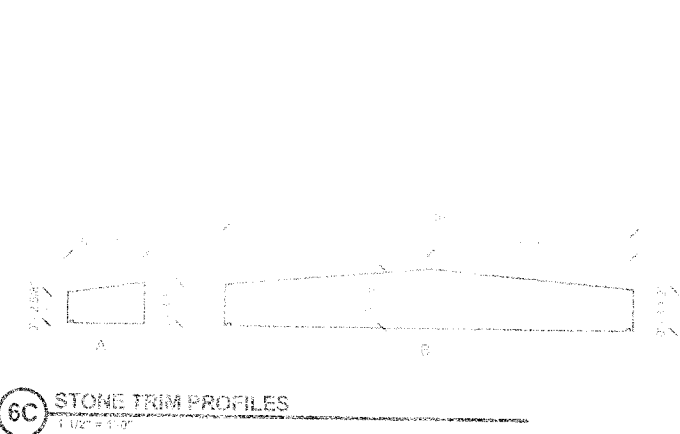
ROOF PLAN AND NOTES

AR101

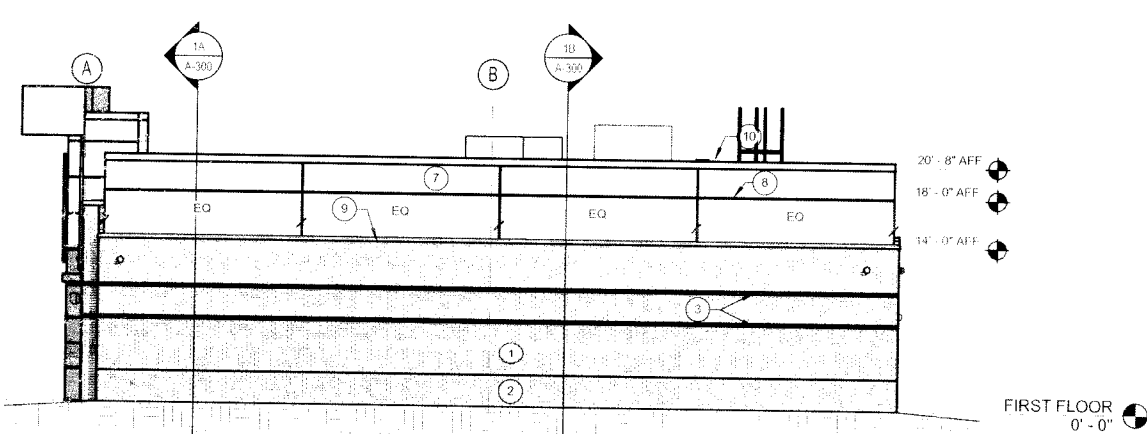


5.4.210 - ELEVATION NOTES	
KEY	NOTE
01	04 20 00 BRICK 2" VIT-10"
02	04 20 00 BRICK 2" VIT-10"
03	04 20 00 BRICK 2" VIT-10"
04	04 20 00 BRICK 2" VIT-10"
05	04 20 00 BRICK 2" VIT-10"
06	04 20 00 BRICK 2" VIT-10"
07	04 20 00 BRICK 2" VIT-10"
08	04 20 00 BRICK 2" VIT-10"
09	04 20 00 BRICK 2" VIT-10"
10	04 20 00 BRICK 2" VIT-10"
11	04 20 00 BRICK 2" VIT-10"
12	04 20 00 BRICK 2" VIT-10"
13	04 20 00 BRICK 2" VIT-10"
14	04 20 00 BRICK 2" VIT-10"
15	04 20 00 BRICK 2" VIT-10"
16	04 20 00 BRICK 2" VIT-10"
17	04 20 00 BRICK 2" VIT-10"
18	04 20 00 BRICK 2" VIT-10"
19	04 20 00 BRICK 2" VIT-10"
20	04 20 00 BRICK 2" VIT-10"
21	04 20 00 BRICK 2" VIT-10"
22	04 20 00 BRICK 2" VIT-10"
23	04 20 00 BRICK 2" VIT-10"
24	04 20 00 BRICK 2" VIT-10"
25	04 20 00 BRICK 2" VIT-10"
26	04 20 00 BRICK 2" VIT-10"
27	04 20 00 BRICK 2" VIT-10"
28	04 20 00 BRICK 2" VIT-10"
29	04 20 00 BRICK 2" VIT-10"
30	04 20 00 BRICK 2" VIT-10"

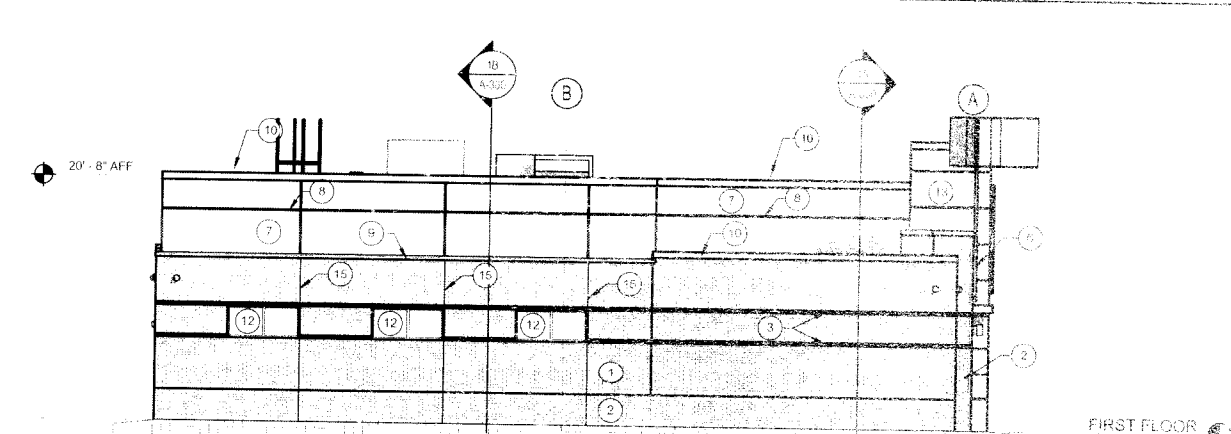
Exterior Finish Schedule			
THIS SCHEDULE IS PROVIDED FOR REFERENCE PURPOSES ONLY. PROPORTIONS AND INDICATED COLOR BASED ON BASIS OF LEADERSHIP ACTUALLY. REFER TO SPECIFICATIONS FOR LIST OF ACTUALLY USED MATERIALS AND FINISHES.			
SPEC SECTION	MATL	MARK	COLOR, BASIS OF DESIGN
042000	FACE BRICK	A	RED - MT. SHADON VELVET
072119	EIFS	B	LAN - SEA GRAY VELVET
074213	METAL WALL PANEL		MATCH TAN BRICK COLOR
077100	COBBLING		REDWOOD
079200	SEALANTS		ALL SEALANTS USED IN EXTERIOR CONTROL JOINTS SHALL MATCH THE MASONRY SURFACE.
081113	EIFS DOWN AND FRAME		PAINT COLOR AS SELECTED BY ARCHITECT
083229	EIFS COULING JOINT		PAINT COLOR AS SELECTED BY ARCHITECT
084113	ALUM. STORE FRONT		CLEAR ANODIZED ALUMINUM
086000	GLAZING	INSUL. GLAZING	SUNGUARD CURTAIN NEUTRAL 52



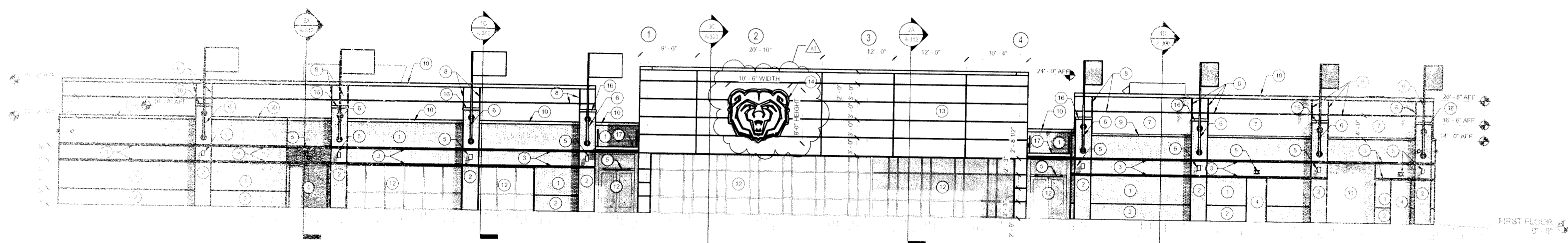
6C STONE TRIM PROFILES
1/8" = 1'-0"



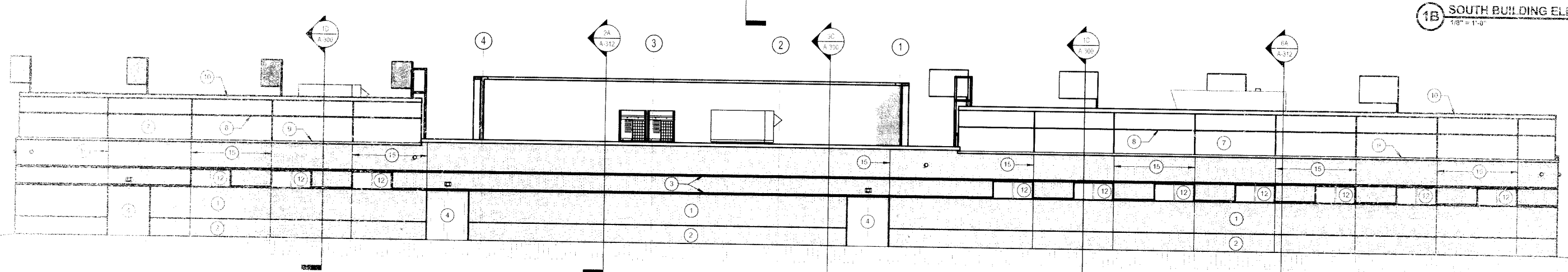
4C EAST BUILDING ELEVATION
1/8" = 1'-0"



1C WEST BUILDING ELEVATION
1/8" = 1'-0"



1B SOUTH BUILDING ELEVATION
1/8" = 1'-0"



1A NORTH BUILDING ELEVATION
1/8" = 1'-0"

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Project No. 2015-121 LGS
Project Date 04.15.2015
Architect DGB

Professional Seal: State of Indiana, No. 32631, DGB

Revision	Date
A1 Addendum #1	04.20.2015

7300 E. 16th Street
Indianapolis, IN 46225

KEY PLAN

MSD OF LAWRENCE TOWNSHIP

LC EXTERIOR FACILITY UPGRADES - BP2

BUILDING ELEVATIONS

A-210

6

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C

B

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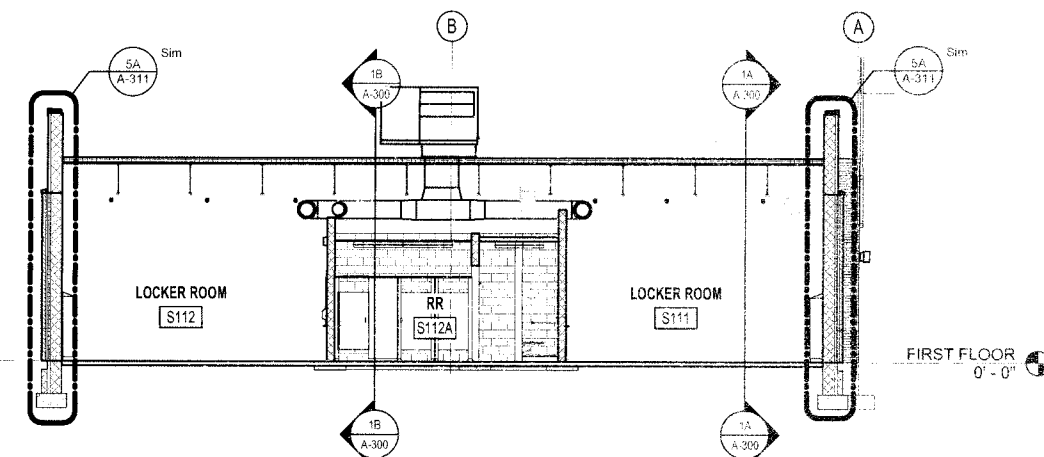
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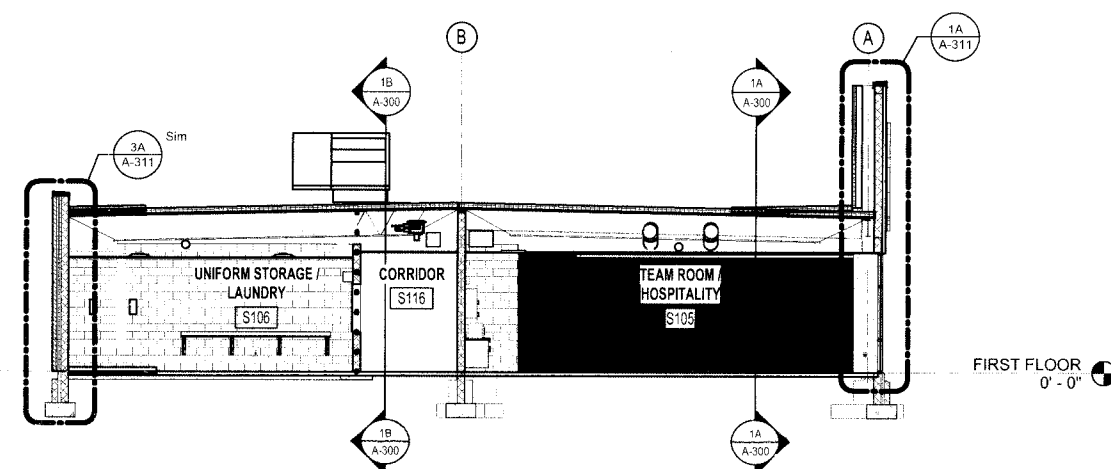
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2

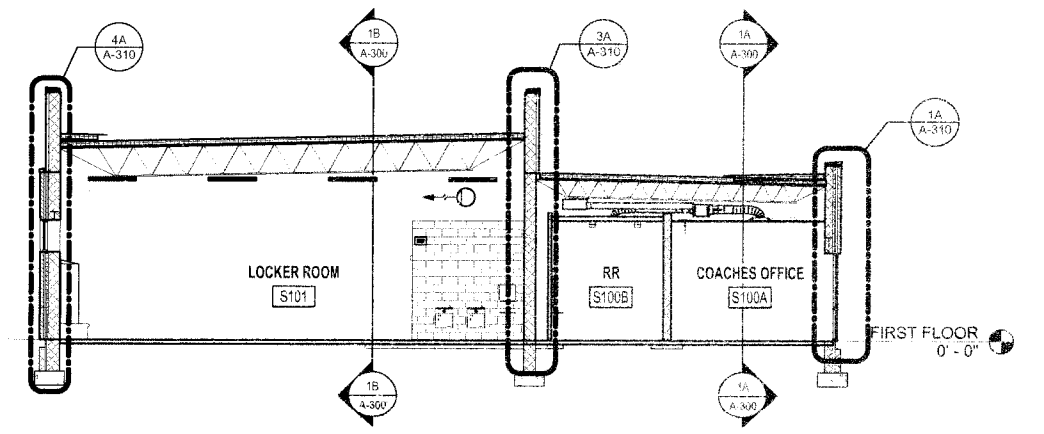
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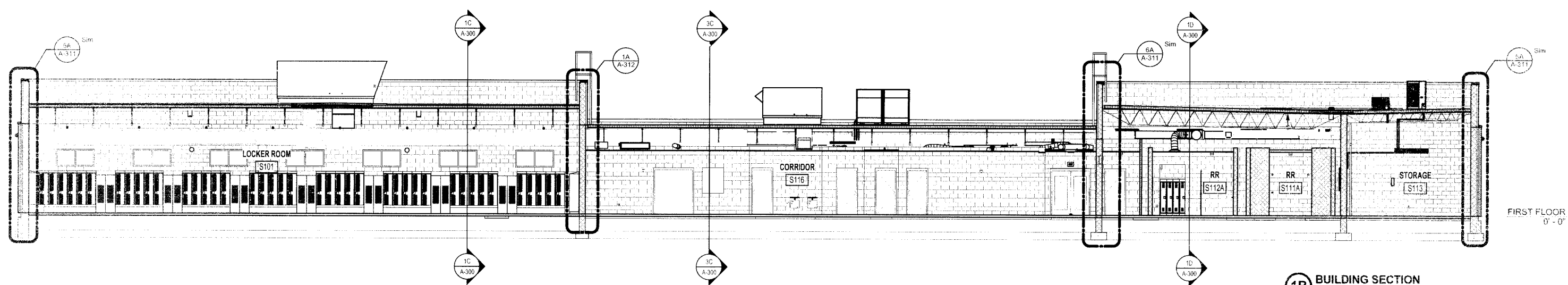
1D BUILDING SECTION
1/8" = 1'-0"



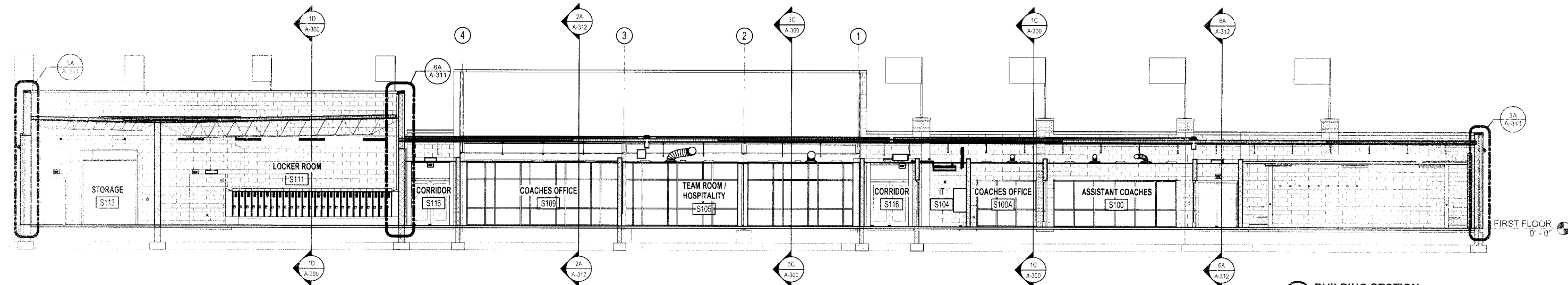
3C BUILDING SECTION
1/8" = 1'-0"



1C BUILDING SECTION
1/8" = 1'-0"



1B BUILDING SECTION
1/8" = 1'-0"



1A BUILDING SECTION
1/8" = 1'-0"

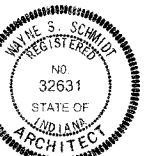
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Project Date 04.19.2016
Prepared BGB

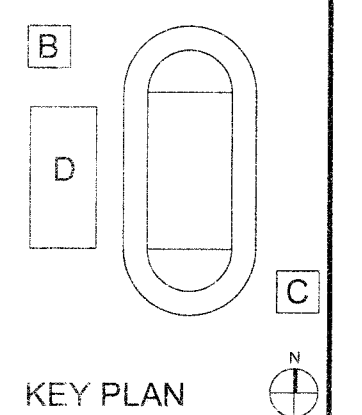


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#	Revision	Date

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KEY PLAN

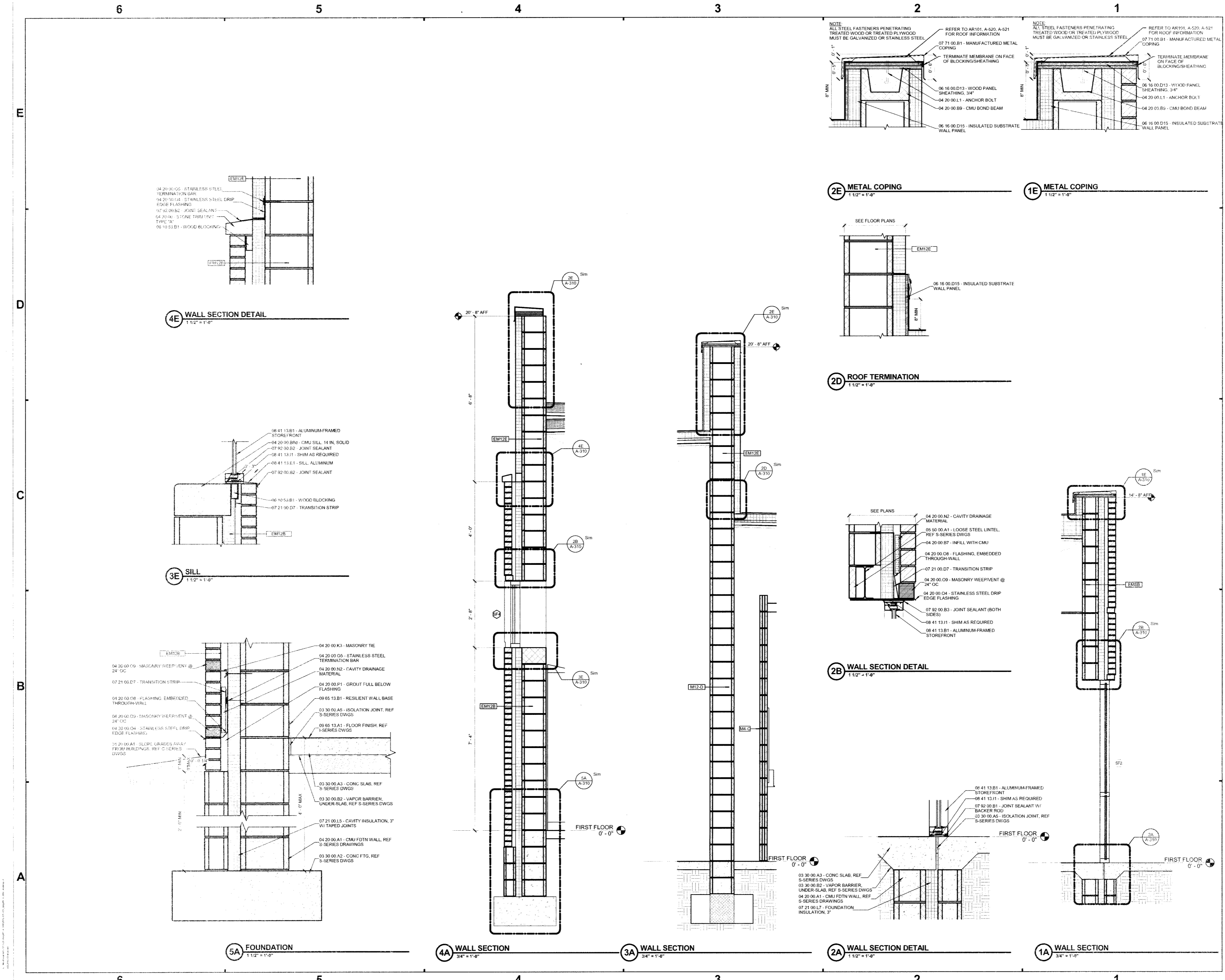
MSD OF
LAWRENCE
TOWNSHIP



LC EXTERIOR
FACILITY
UPGRADES - BP2

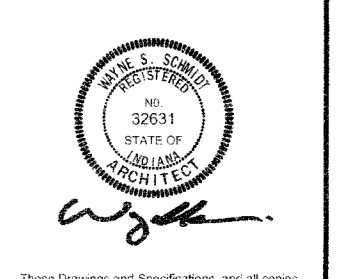
BUILDING SECTIONS

A-300



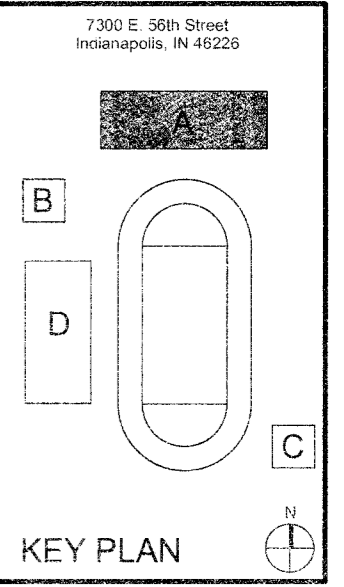
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Project Date 04.18.2016
Prepared By BGB

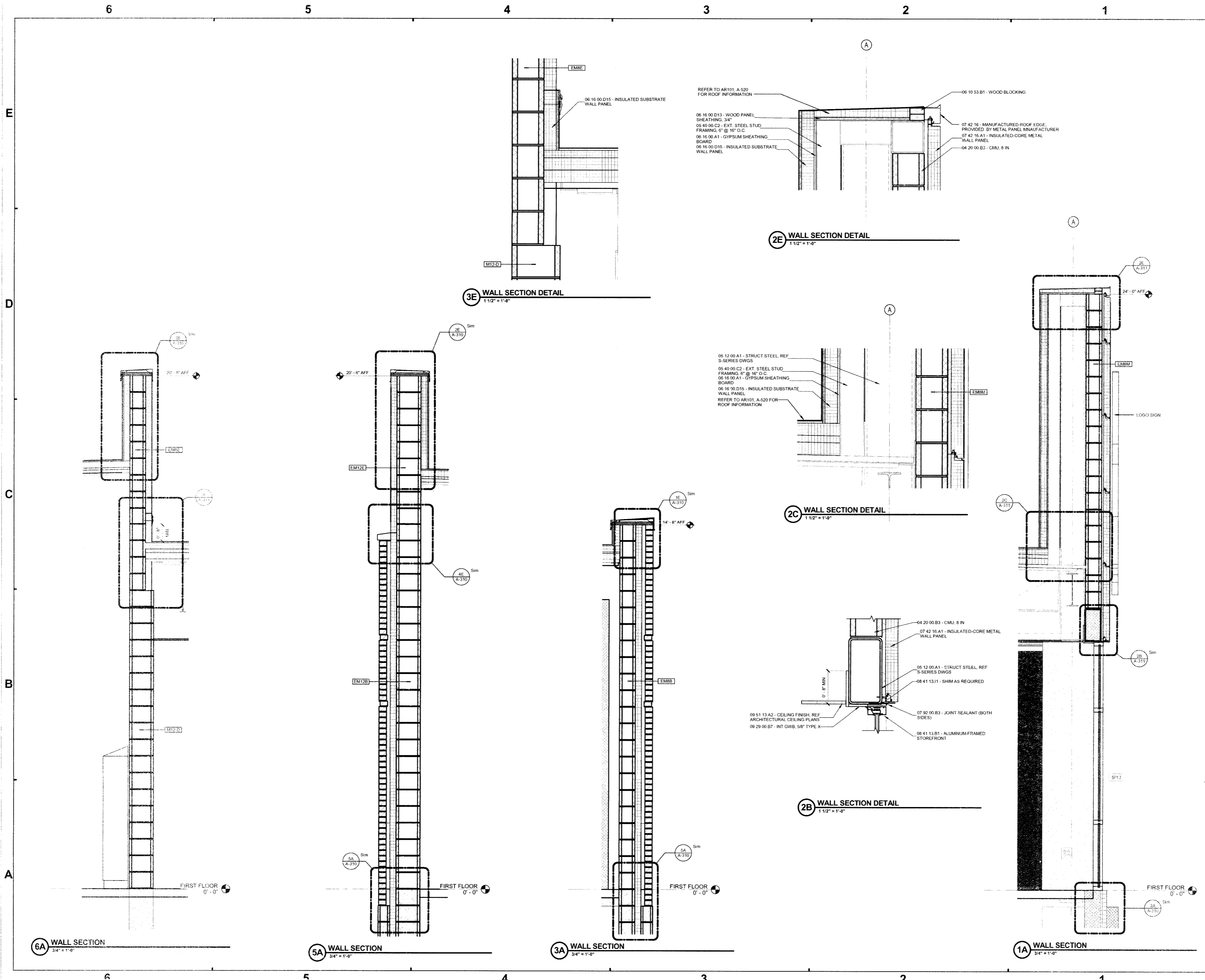


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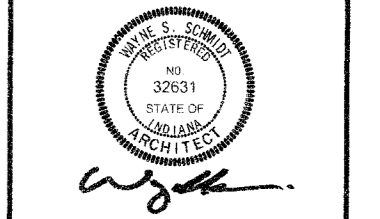


LC EXTERIOR
FACILITY
UPGRADES - BP2
WALL SECTIONS &
DETAILS
A-310



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Project Date 04.18.2018
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#	Revision	Date

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KEY PLAN

MSD OF LAWRENCE TOWNSHIP

LC EXTERIOR FACILITY UPGRADES - BP2

WALL SECTIONS & DETAILS

A-311

6

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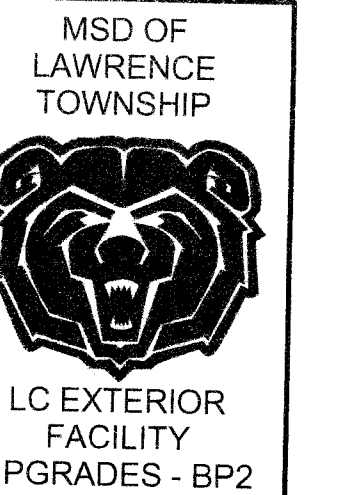
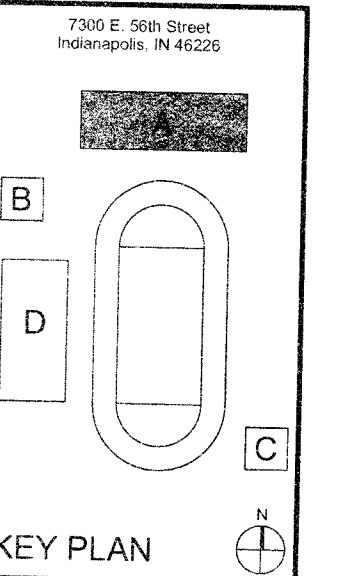
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Project Date 04.18.2016
Produced BGB



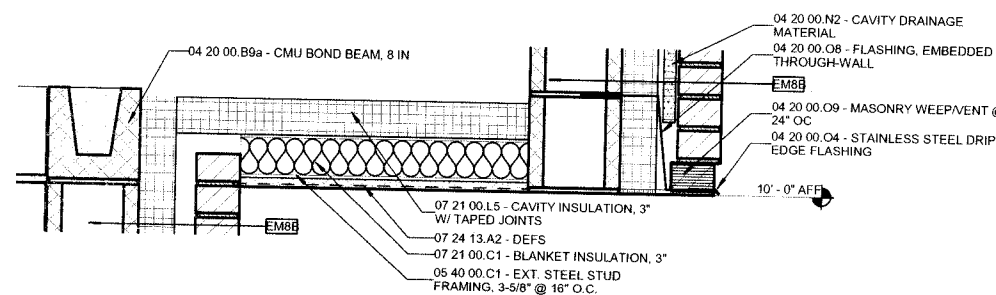
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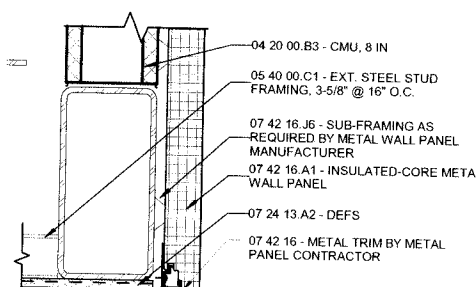


WALL SECTIONS &
DETAILS

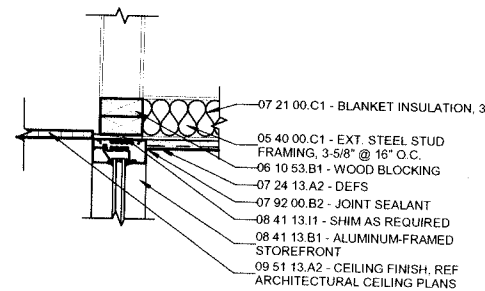
A-312



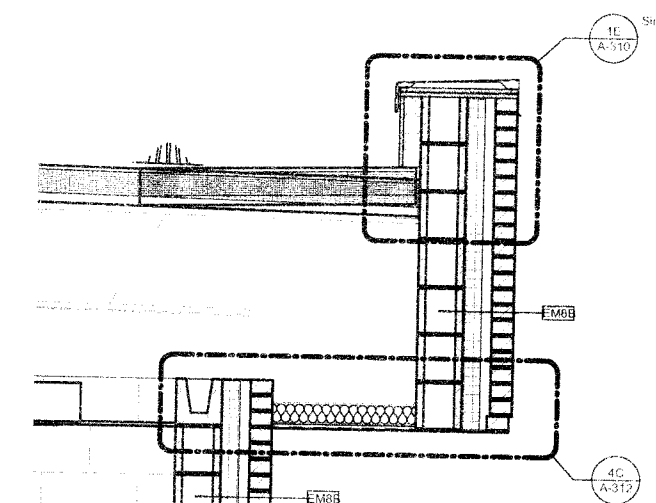
4C WALL SECTION DETAIL
1 1/2" x 1'-0"



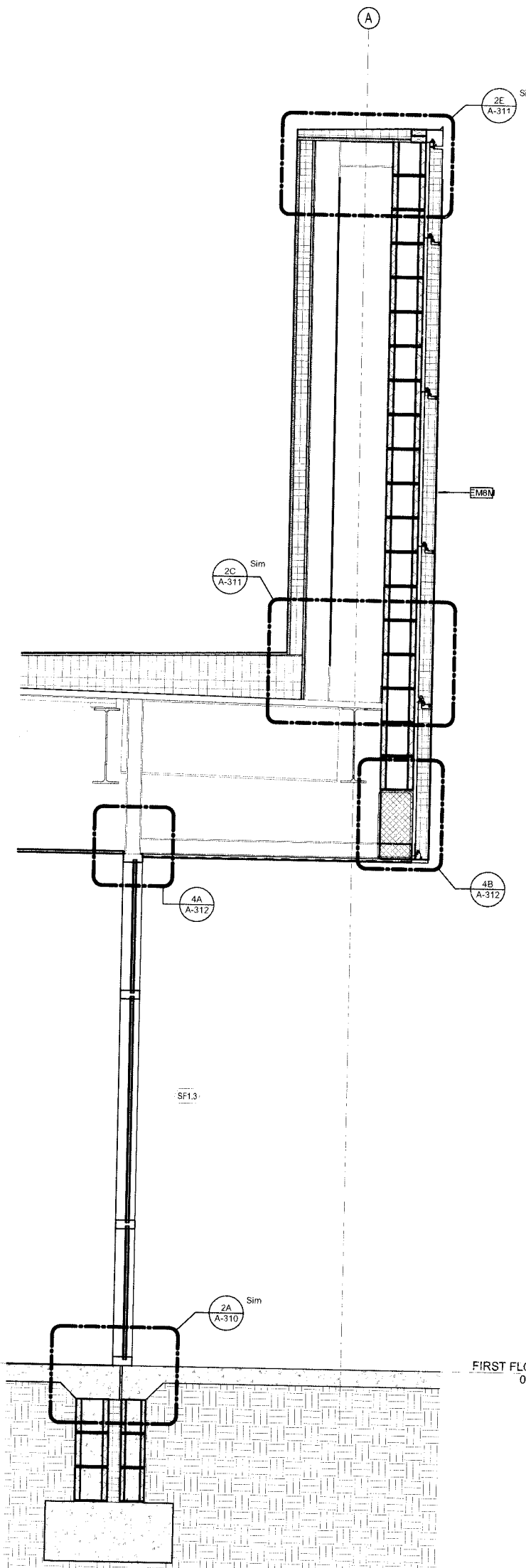
4B WALL SECTION DETAIL
1 1/2" x 1'-0"



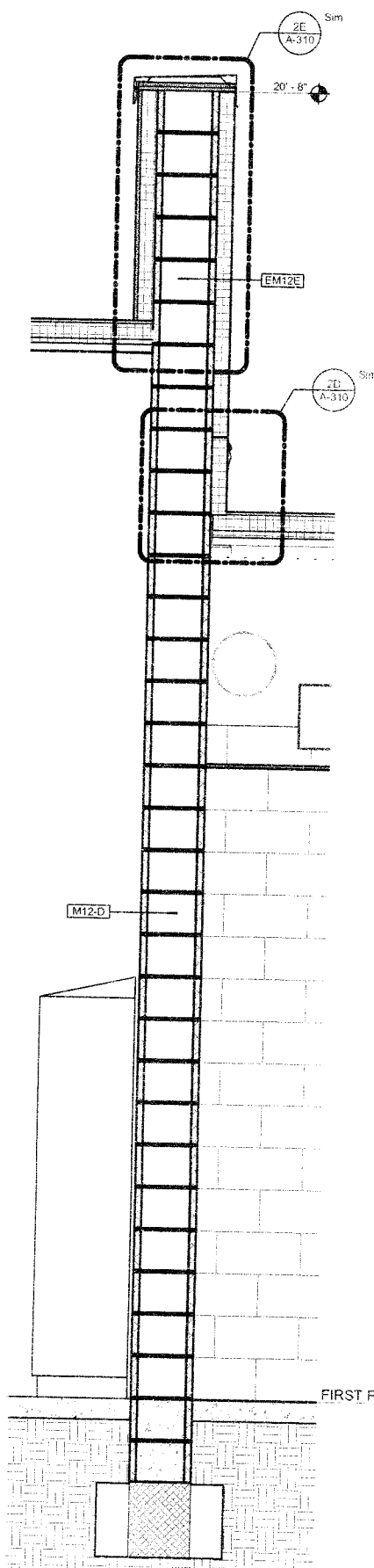
4A WALL SECTION DETAIL
1 1/2" x 1'-0"



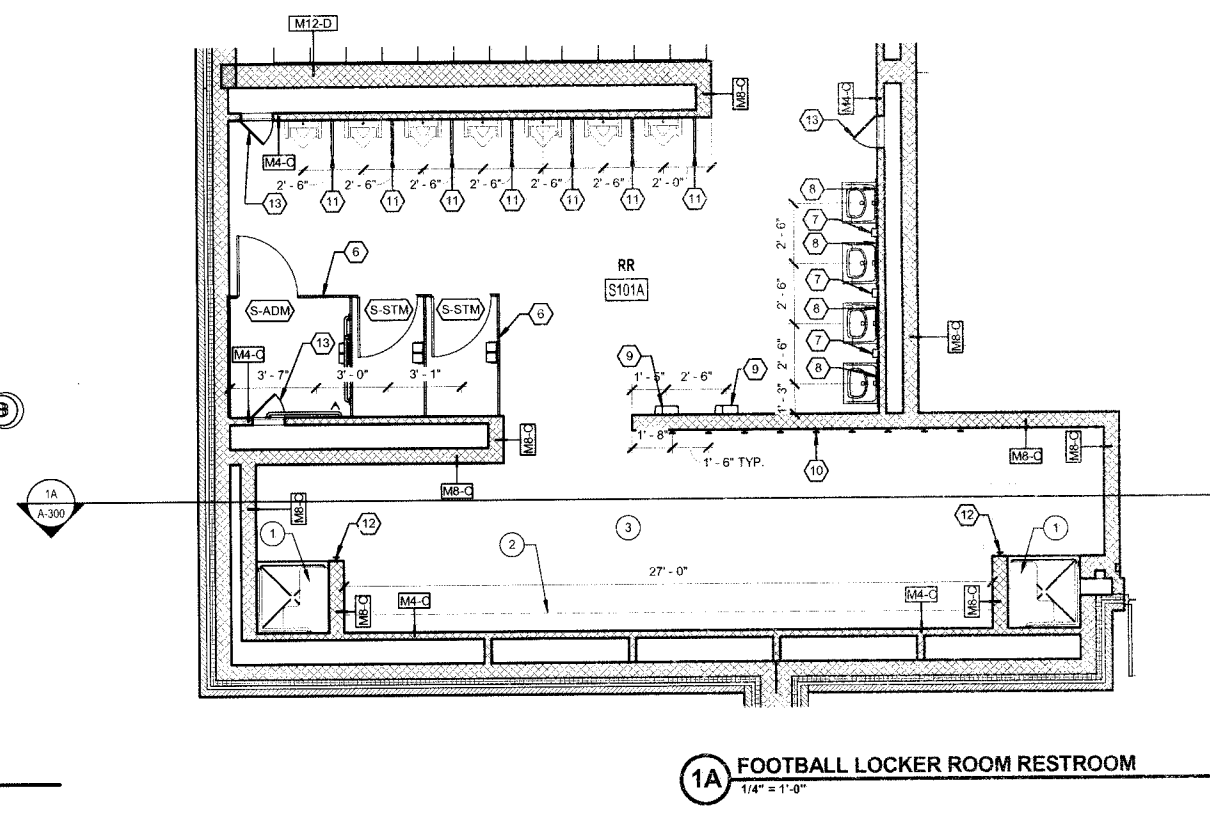
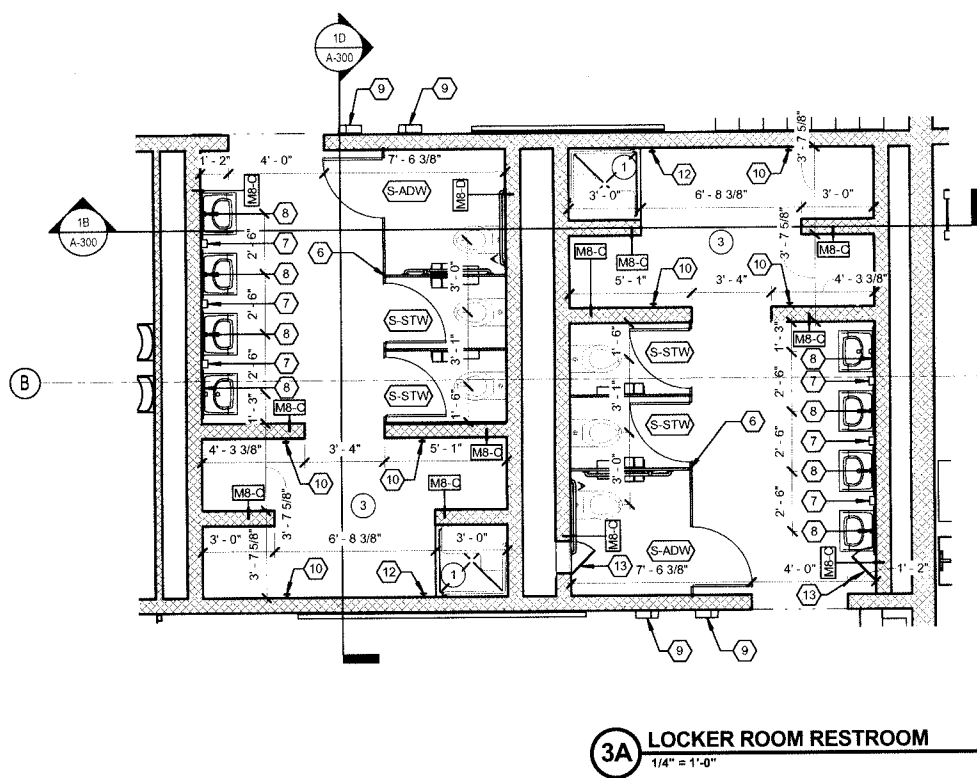
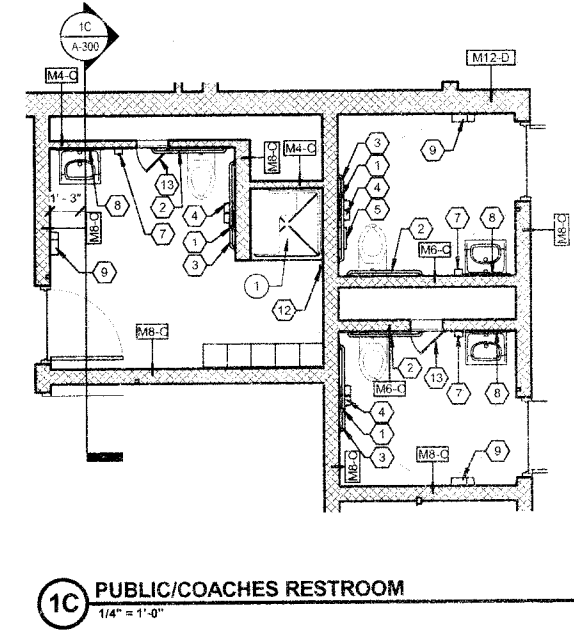
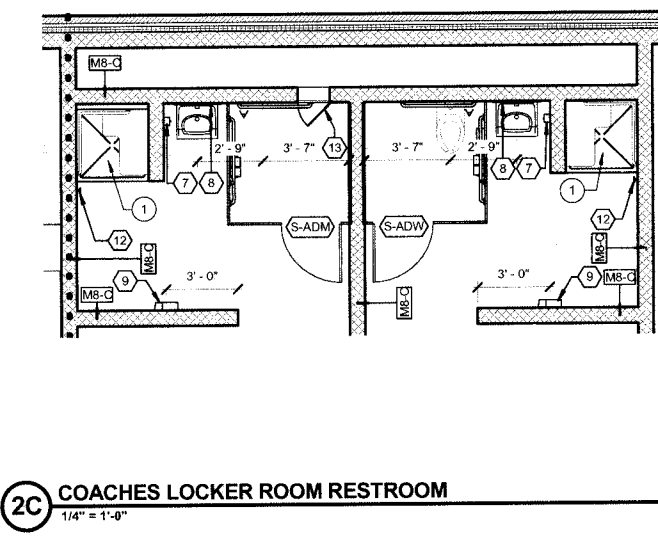
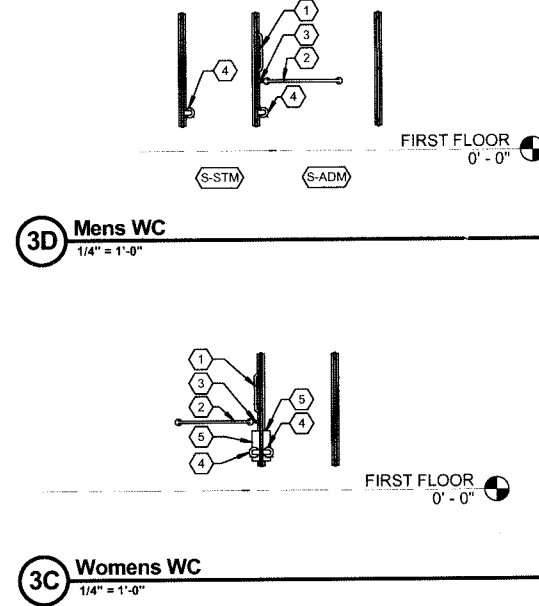
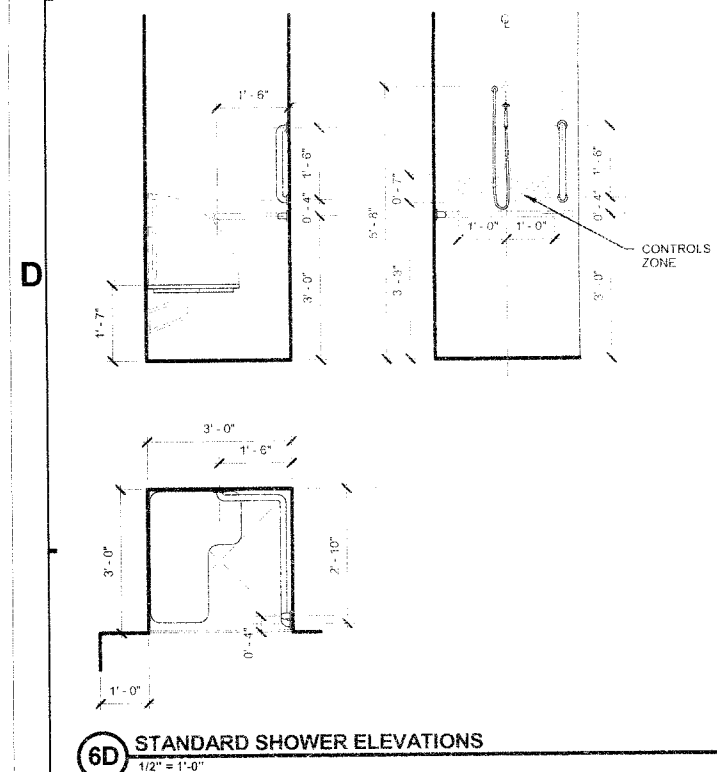
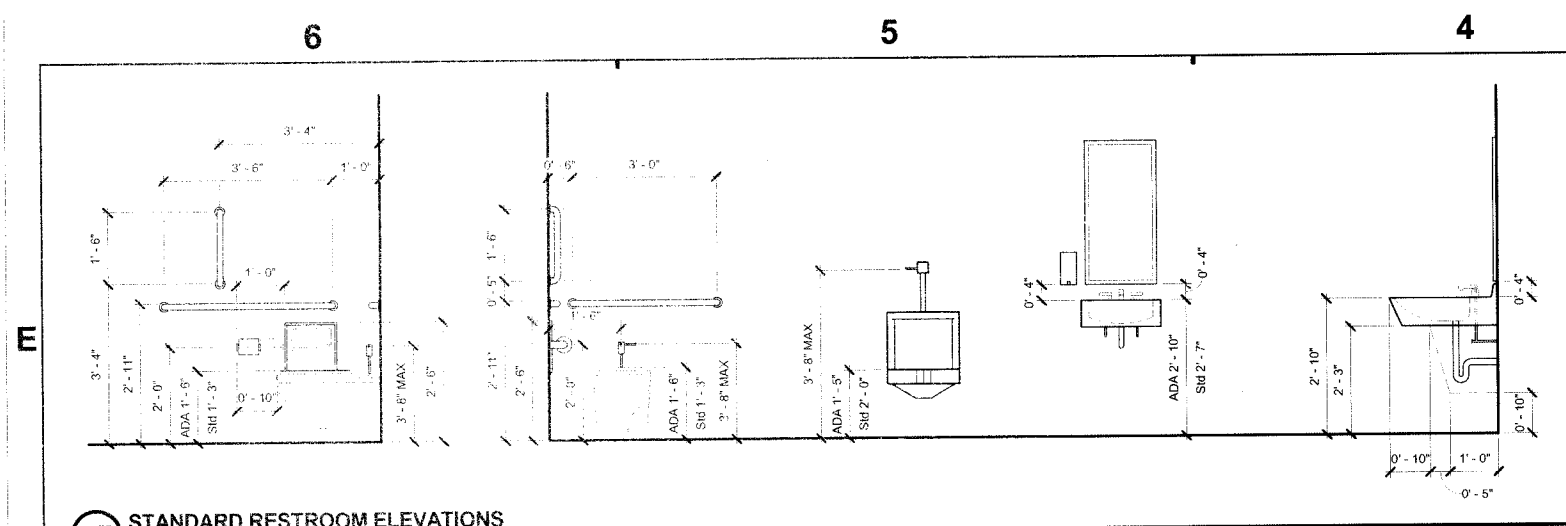
6A WALL SECTION
3/4" x 1'-0"



2A WALL SECTION
3/4" x 1'-0"



1A WALL SECTION
3/4" x 1'-0"



5.4.401 - RESTROOM ACCESSORY SCHEDULE					
Type Mark	Keynote	Description	Mounting	Furnished By	Installed By
1	10 28 00	GRAB BAR - 18" VERTICAL	BOTTOM @ 48" AFF	CONTRACTOR	CONTRACTOR
2	10 28 00	GRAB BAR - 36" HORIZONTAL	TOP @ 2'-11" AFF	CONTRACTOR	CONTRACTOR
3	10 28 00	GRAB BAR - 42" HORIZONTAL	TOP @ 2'-11" AFF	CONTRACTOR	CONTRACTOR
4	10 28 00	TOILET TISSUE DISPENSER - DOUBLE	BOTTOM @ 1'-6" AFF	OWNER	OWNER
5	10 28 00	SANITARY NAPKIN DISPOSAL - SURFACE	TOP @ 30" AFF	CONTRACTOR	CONTRACTOR
6	10 21 13	TOILET PARTITION		CONTRACTOR	CONTRACTOR
7	10 28 00	SOAP DISPENSER	BOTTOM @ 4" ABOVE FIXTURE	OWNER	OWNER
8	10 28 13	MIRROR - 24" X 36"	BOTTOM @ 4" ABOVE FIXTURE	CONTRACTOR	CONTRACTOR
9	10 28 00	HAND DRYER - SLIM	BOTTOM @ 42" AFF	CONTRACTOR	CONTRACTOR
10	10 28 00	ROBE HOOK	CENTER @ 6'-6" AFF	CONTRACTOR	CONTRACTOR
11	10 21 13	URINAL SCREEN	CENTER @ 3'-8" AFF	CONTRACTOR	CONTRACTOR
12	10 28 00	ADA ROBE HOOK	CENTER @ 3'-8" AFF	CONTRACTOR	CONTRACTOR
13	08 31 13	ACCESS DOOR - 18" X 16"	BOTTOM @ 40" AFF	CONTRACTOR	CONTRACTOR

5.4.402 - RESTROOM STALL TYPES	
Toilet Stall Mark	Description
S-ADM	ADA - MENS' STALL
S-ADW	ADA - WOMENS' STALL
S-STM	STANDARD - MENS' STALL
S-STW	STANDARD - WOMENS' STALL

ENLARGED PLAN NOTE	
KEY	NOTE
1	ADA SHOWER - REFERENCE DETAIL 6D/A-401 FOR ACCESSORY HEIGHTS
2	FLOOR TRENCH, REFER TO P-SERIES DRAWINGS
3	SLOPE FLOOR TO SHOWER DRAIN

SCHMIDT ASSOCIATES
415 Massachusetts Avenue
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www.schmidt-arch.com

Project No. 2015-121 LCS
Project Date 04.18.2016
Prepared By BGG

STATE OF INDIANA ARCHITECT
No. 32631
J. Schmidt

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Indianapolis, IN 46226

KEY PLAN

MSD OF LAWRENCE TOWNSHIP

LC EXTERIOR FACILITY UPGRADES - BP2

ENLARGED RESTROOM PLANS

A-401

6

5

4

3

2

1

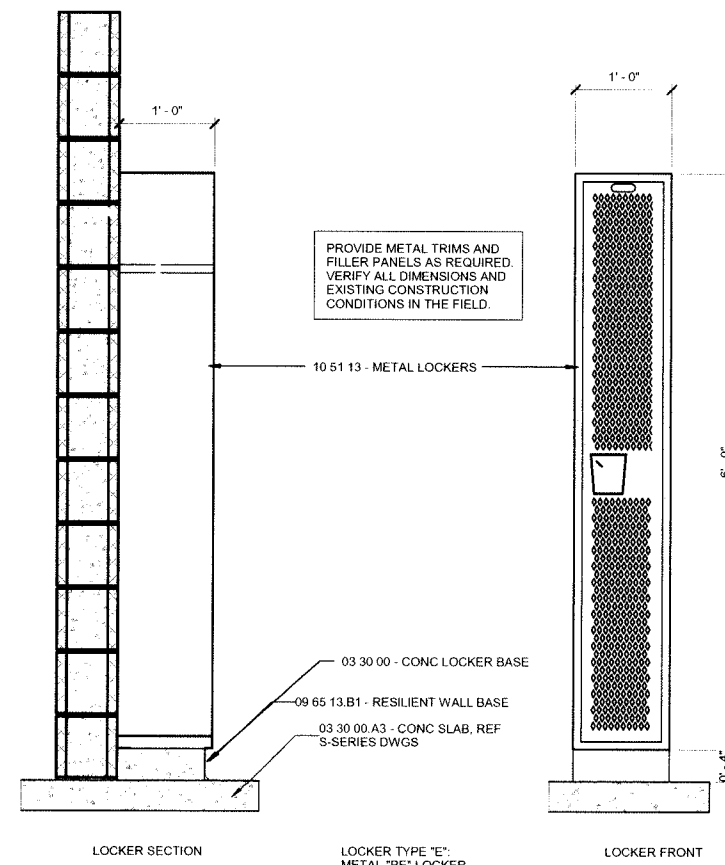
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D

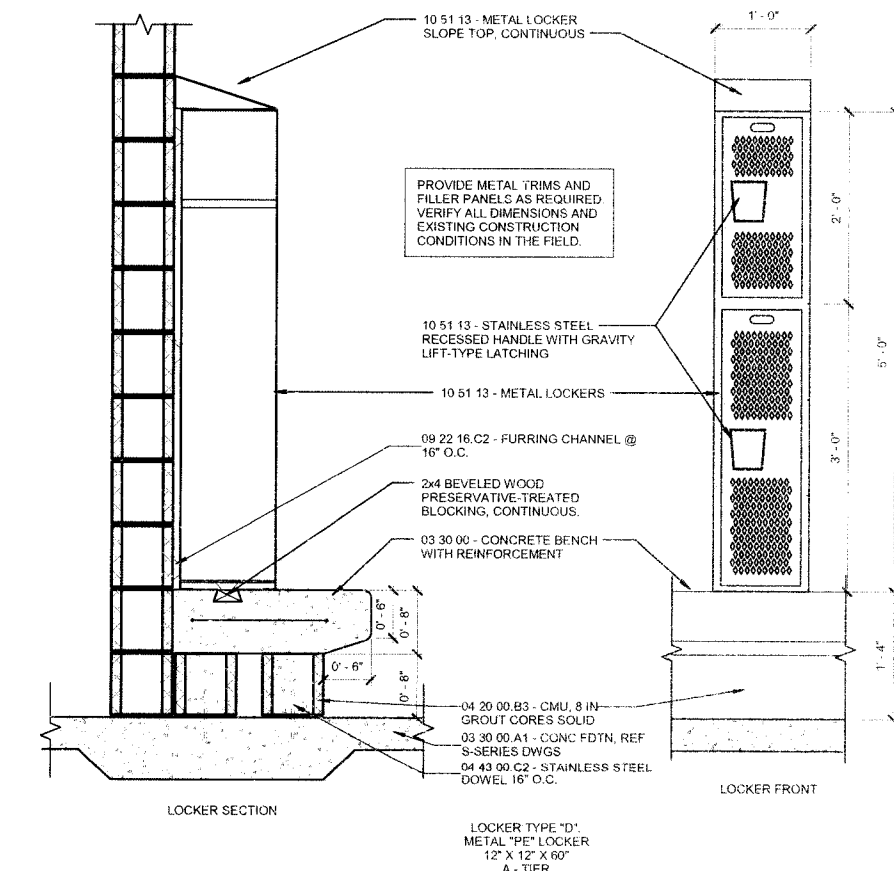
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B

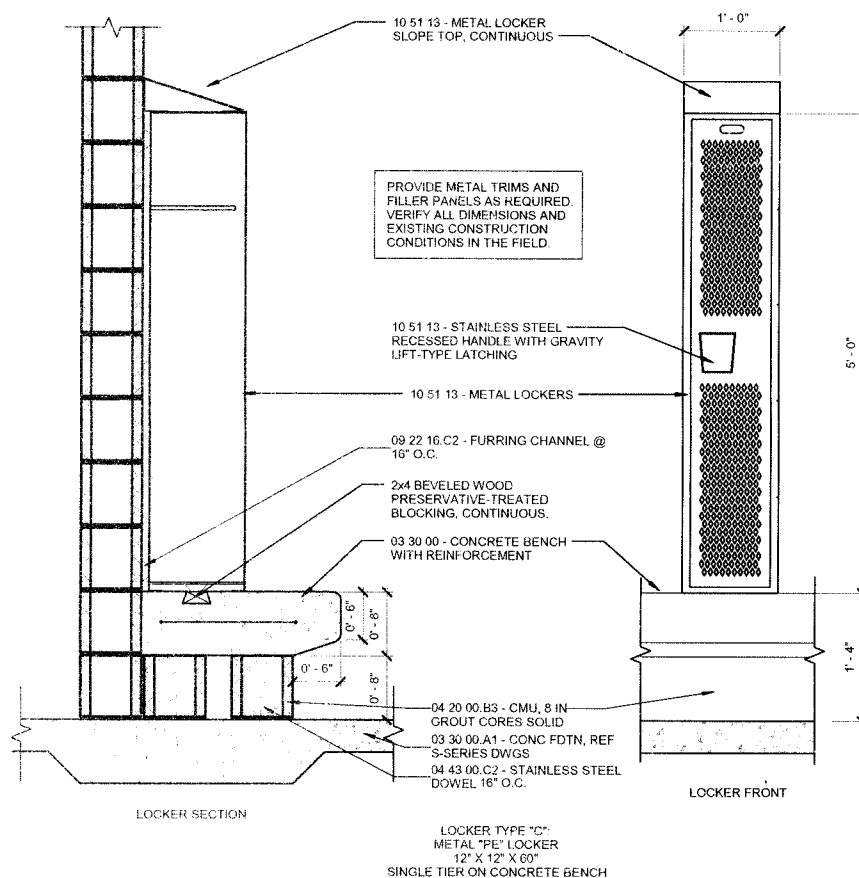
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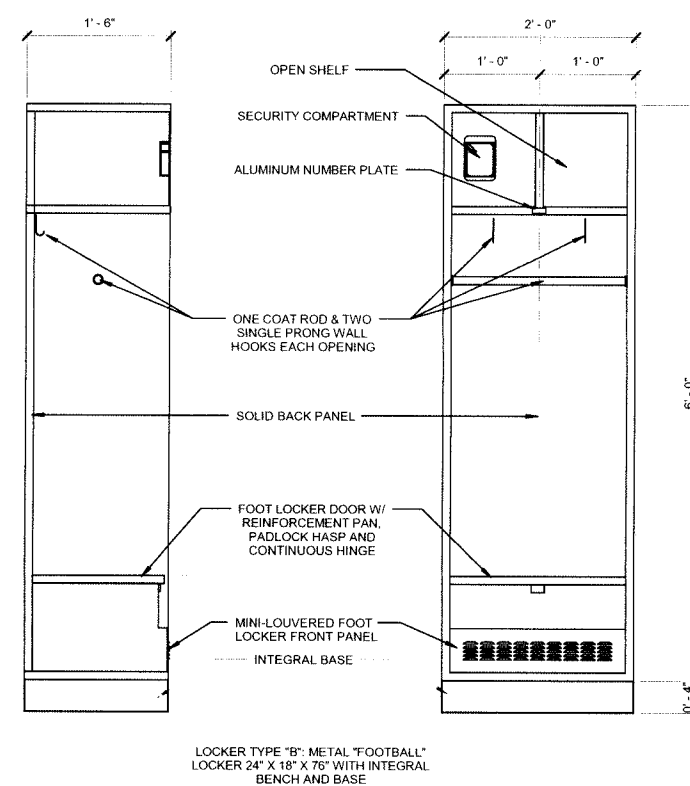
30 LOCKER TYPE "E"
1" = 1'-0"



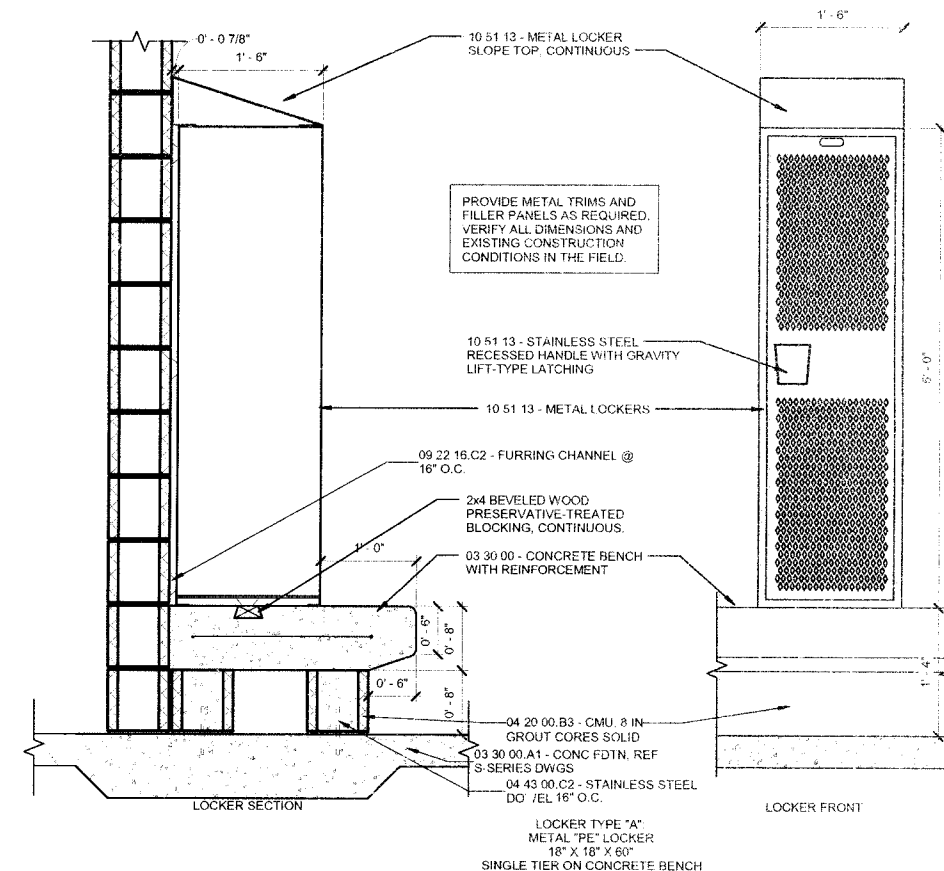
10 LOCKER TYPE "D"
1" = 1'-0"



5A LOCKER TYPE "C"
1" = 1'-0"

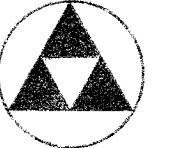


LOCKER TYPE "B"
1" = 1'-0"



1A LOCKER TYPE "A"
1" = 1'-0"

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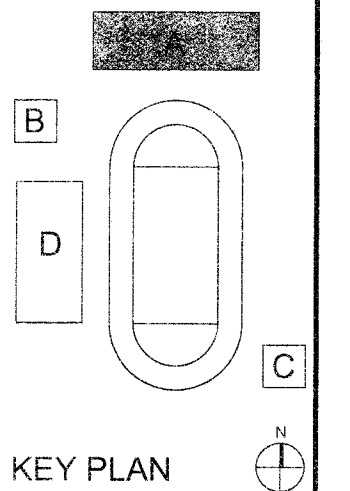
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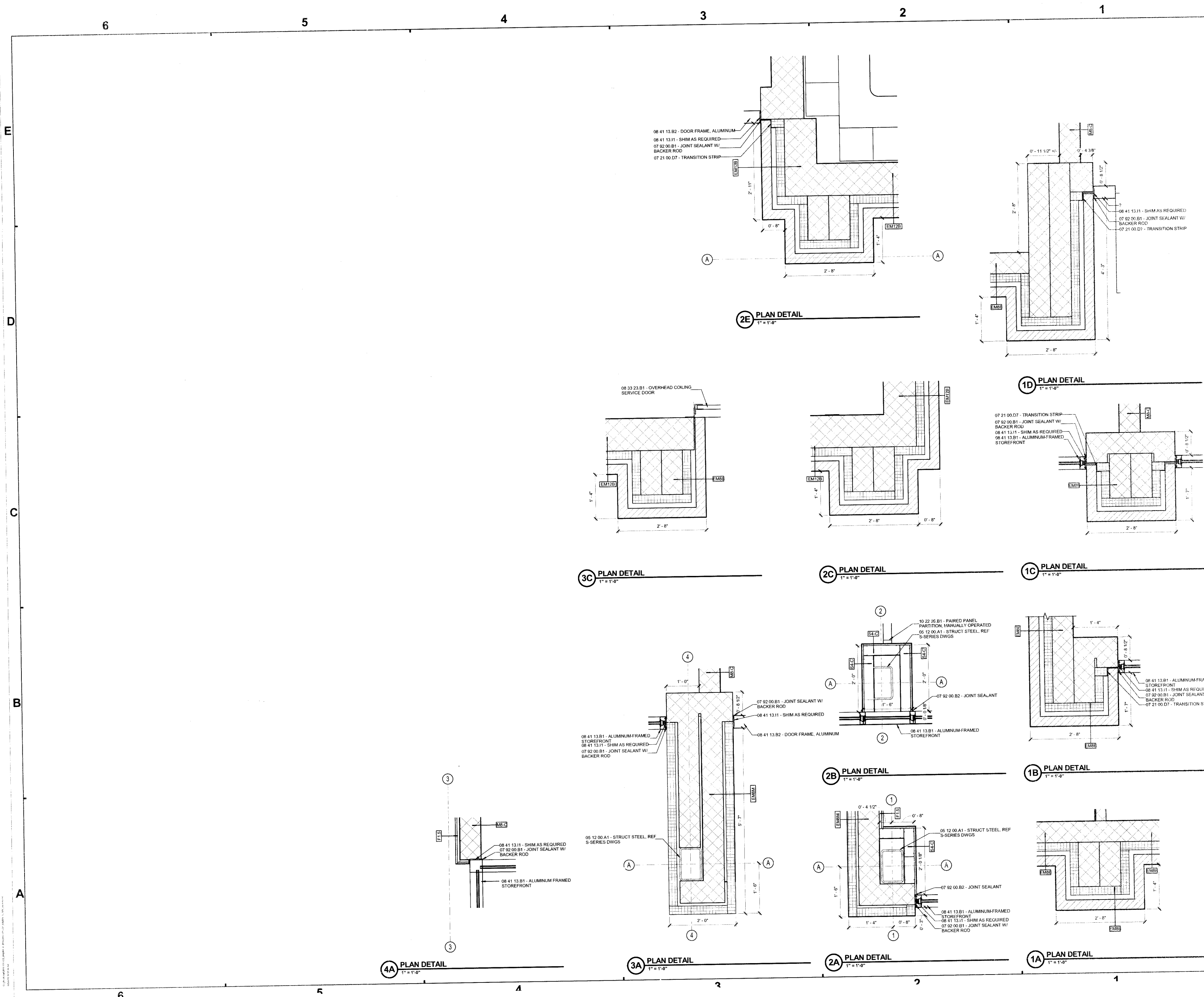
MSD OF
LAWRENCE
TOWNSHIP



LC EXTERIOR
FACILITY
UPGRADES - BP2

TYPICAL DETAILS

A-500



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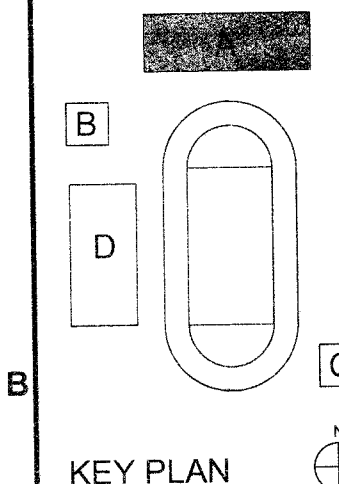
Project No. 2015-121.LCS
Project Date 04.18.2016
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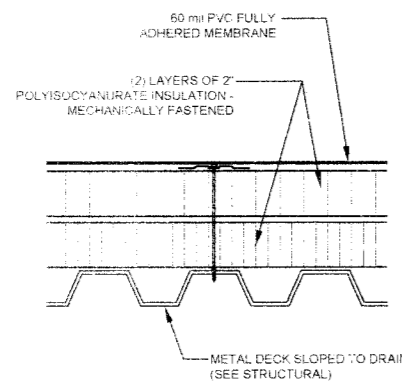
MSD OF LAWRENCE TOWNSHIP

LC EXTERIOR FACILITY UPGRADES - BP2

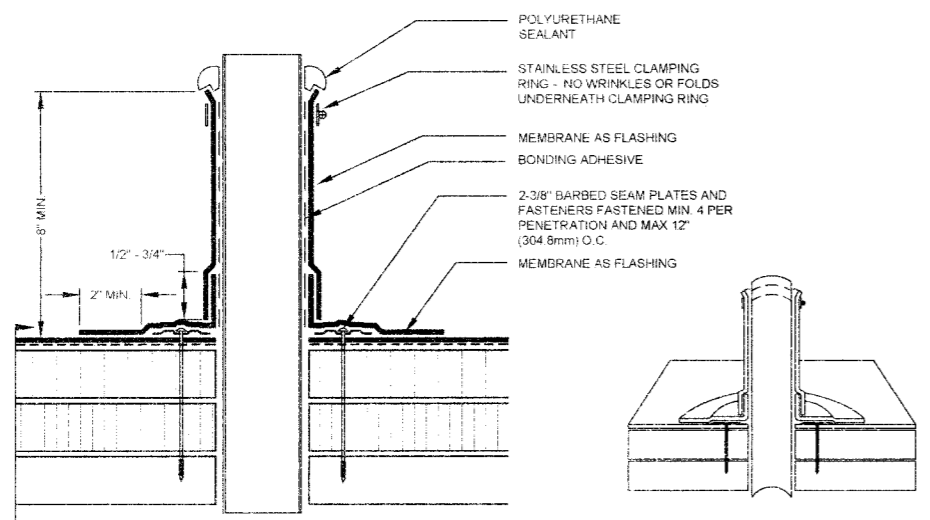
PLAN DETAILS

A-510

6 5 4 3 2 1

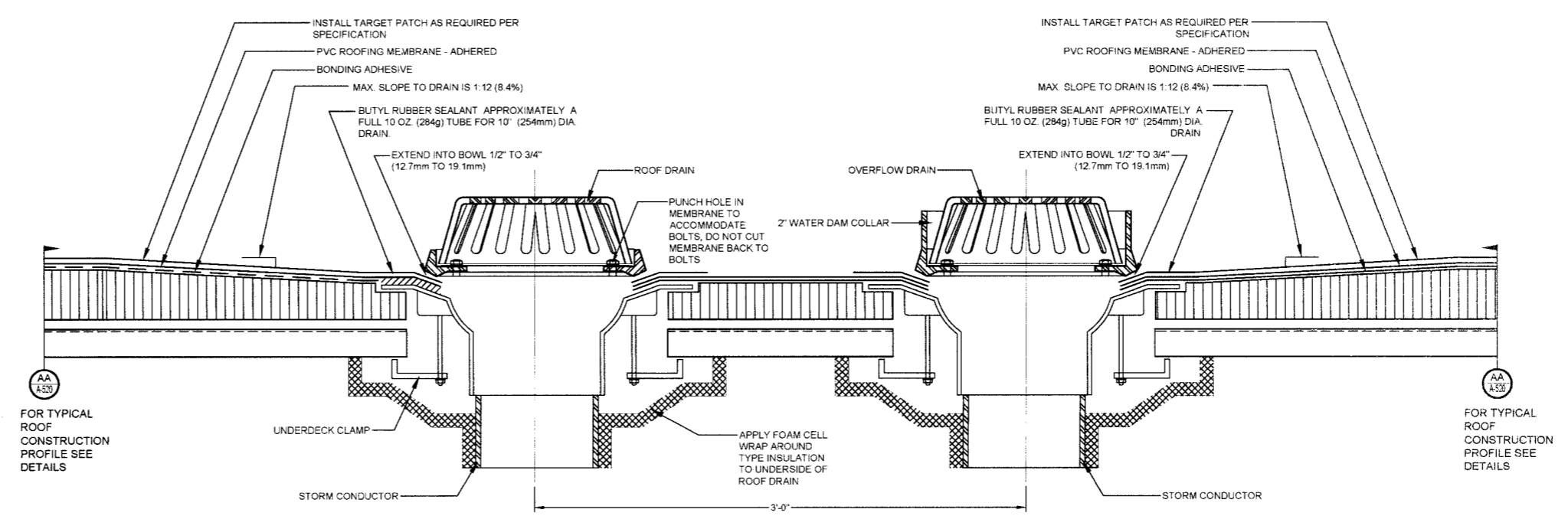


ROOF CONSTRUCTION PROFILE
SCALE: N.T.S.

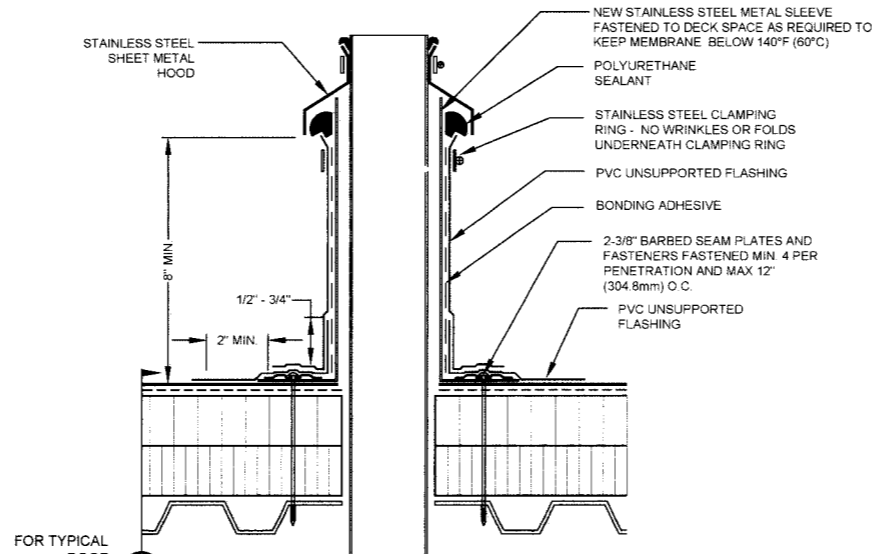


NOTE: PRE-MANUFACTURED PIPE BOOT IS PREFERABLE. INSTALL PER MANUFACTURER'S REQUIREMENTS. IF SO INSTALLED TOP EDGE OF BOOT SHALL RECEIVE WATERBLOCK, STAINLESS CLAMPING RING AND TOOLED URETHANE SEALANT.

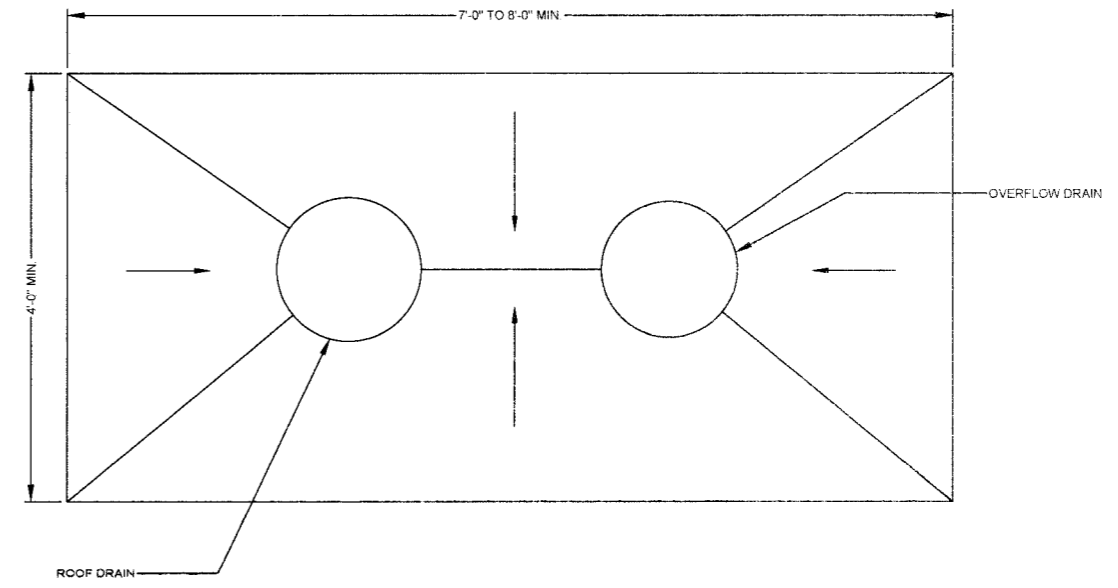
FIELD FABRICATED PIPE FLASHING
SCALE: N.T.S.



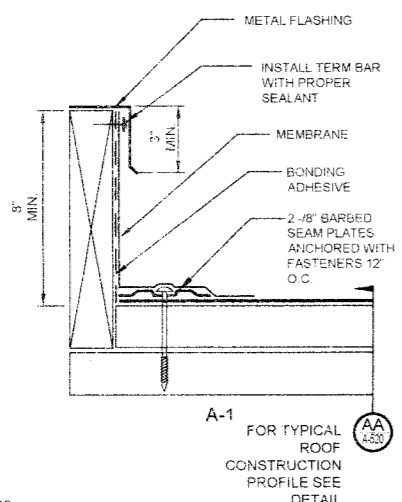
ROOF DRAIN
SCALE: N.T.S.



HOT PIPE FLASHING
SCALE: N.T.S.



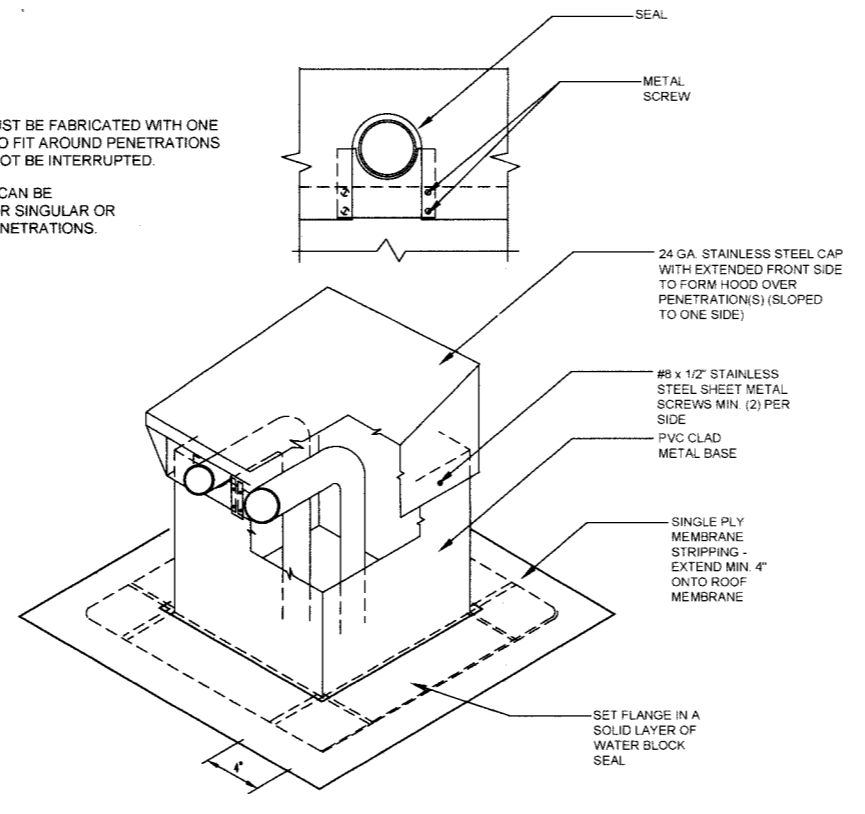
ROOF DRAIN SUMP
SCALE: N.T.S.



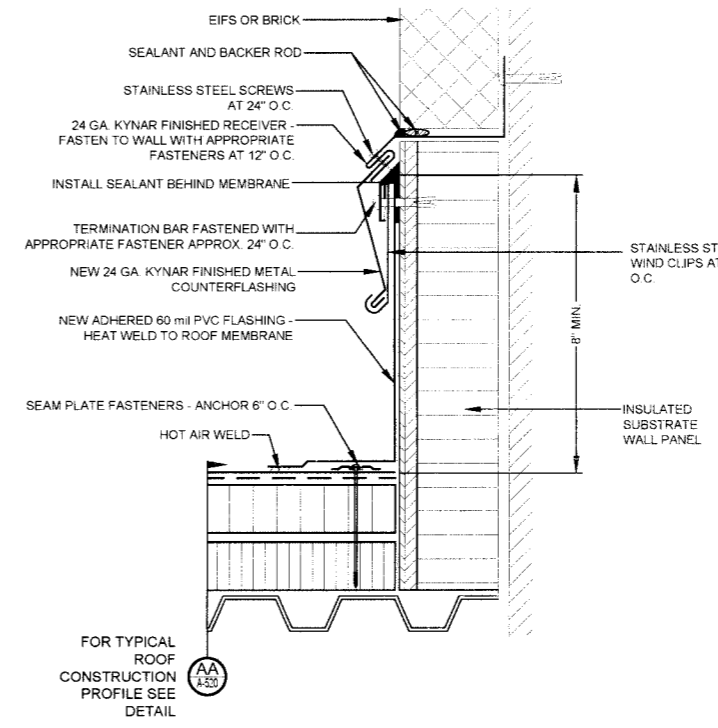
NOTES:
1. INSTALL CURB FLASHING AFTER BASE FLASHING INSTALLATION WITH A MINIMUM OF TWO (2) FASTENERS PER SIDE. SECURELY FASTENED TO THE STRUCTURAL CURB.

TYPICAL CURB FLASHING
SCALE: N.T.S.

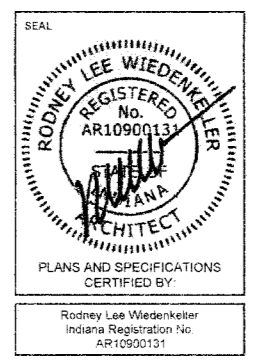
NOTES:
1. CLOSURE MUST BE FABRICATED WITH ONE SIDE OPEN TO FIT AROUND PENETRATIONS WHICH CANNOT BE INTERRUPTED.
2. THIS DETAIL CAN BE MODIFIED FOR SINGULAR OR MULTIPLE PENETRATIONS.



MULTIPLE PENETRATION
SCALE: N.T.S.



THRU-WALL REGLET
SCALE: N.T.S.



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Indianapolis, Indiana 46204
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Project No. 2015.121.LCS
Project Date 04.18.2016
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#	Revision	Date
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Moisture Management
5855 Crosspoint Blvd., Suite 100
Indianapolis, IN 46256
317.577.0910
Fax: 317.577.0912

Project Address

MSD OF LAWRENCE TOWNSHIP

LC EXTERIOR FACILITY UPGRADES

ROOF DETAILS

A-520

6

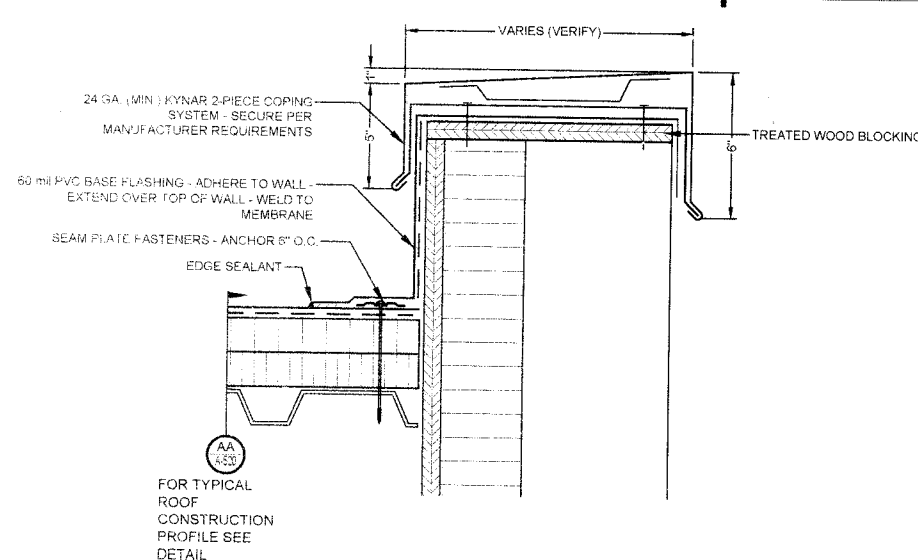
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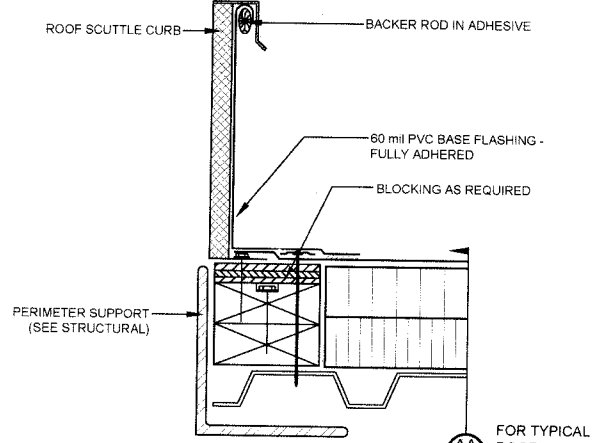
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1

G
A-521

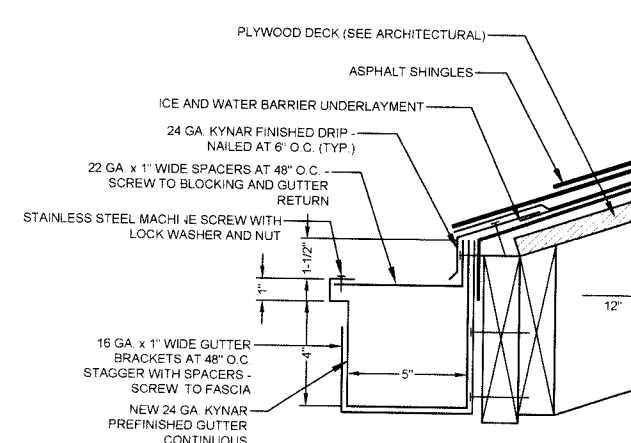
COPING DETAIL

SCALE: N.T.S.

H
A-521

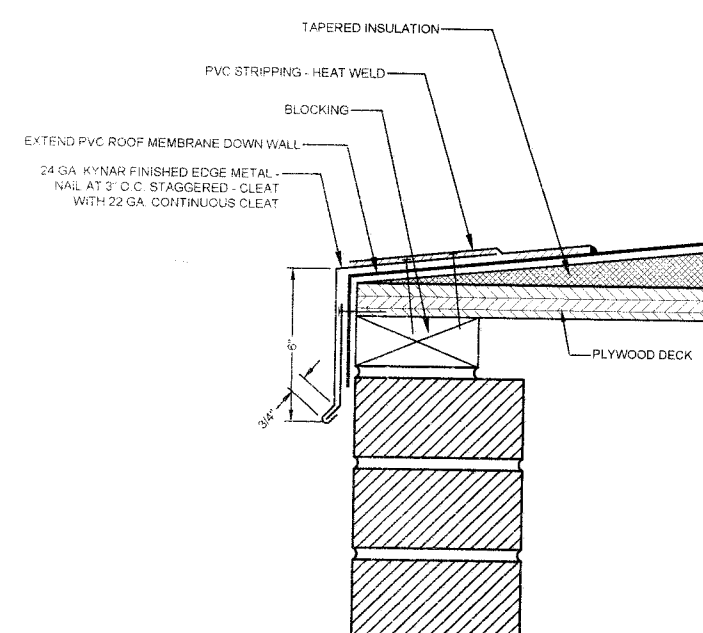
ROOF SCUTTLE DETAIL

SCALE: N.T.S.

I
A-521

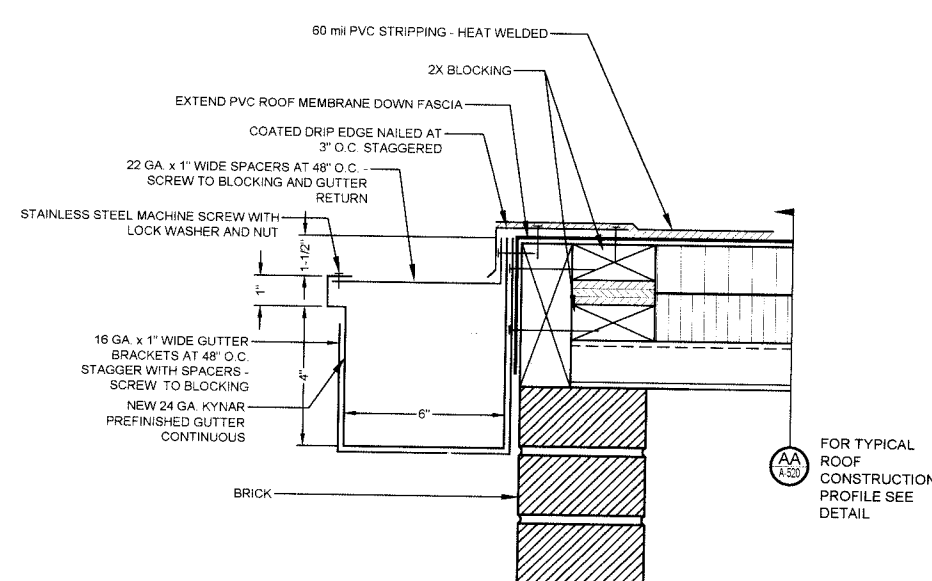
GUTTER DETAIL

SCALE: N.T.S.

J
A-521

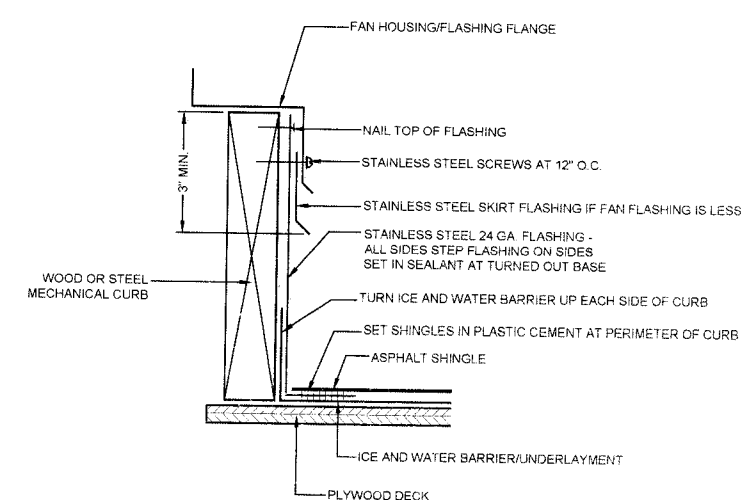
EDGE METAL DETAIL

SCALE: N.T.S.

K
A-521

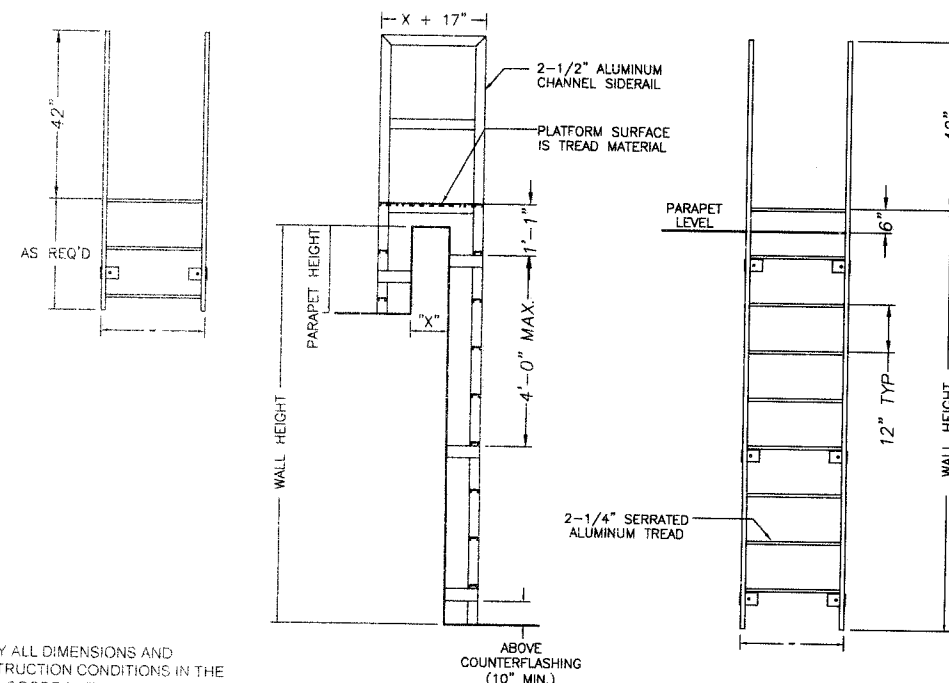
GUTTER

SCALE: N.T.S.

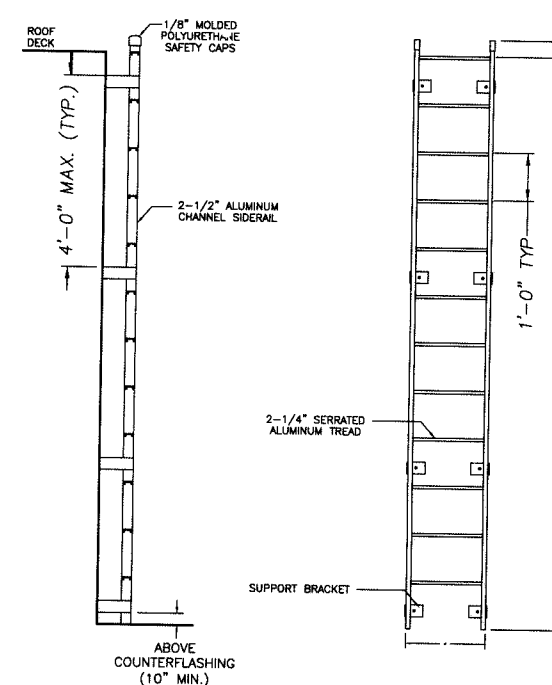
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A-521

MECHANICAL CURB

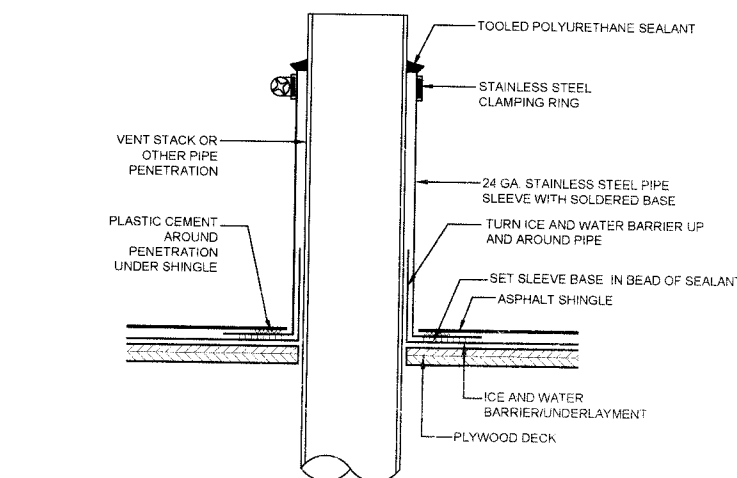
SCALE: N.T.S.

M
A-521ALUMINUM FIXED
LADDER WITH PARAPET
PLATFORM

SCALE: N.T.S.

N
A-521ALUMINUM FIXED
LADDER TO ROOF HATCH

SCALE: N.T.S.

O
A-521

VENT STACK/PIPE PENETRATION

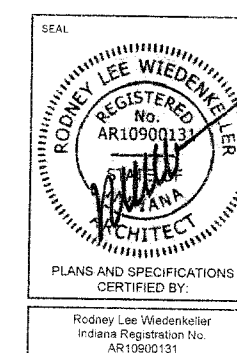
SCALE: N.T.S.

NOTE

1. VERIFY ALL DIMENSIONS AND CONSTRUCTION CONDITIONS IN THE FIELD. COORDINATE WORK WITH ALL RELATED TRADES.
2. PROVIDE BLOCKING AS REQUIRED FOR ANCHORING INTO WALL CONSTRUCTION.
3. REFERENCE ROOF ACCESS LADDER SCHEDULE FOR LADDER SPECIFIC INFORMATION.
4. MANUFACTURER: PRECISION LADDERS, LLC.
5. INSTALL LADDER AT 10\"/>

NOTE

1. VERIFY ALL DIMENSIONS AND CONSTRUCTION CONDITIONS IN THE FIELD. COORDINATE WORK WITH ALL RELATED TRADES.
2. MANUFACTURER: PRECISION LADDERS, LLC.



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ASSOCIATES

415 Massachusetts Avenue
Indianapolis, Indiana 46204
www.schmidt-arch.comProject No. 2015.121.LCS
Project Date 04.18.2016
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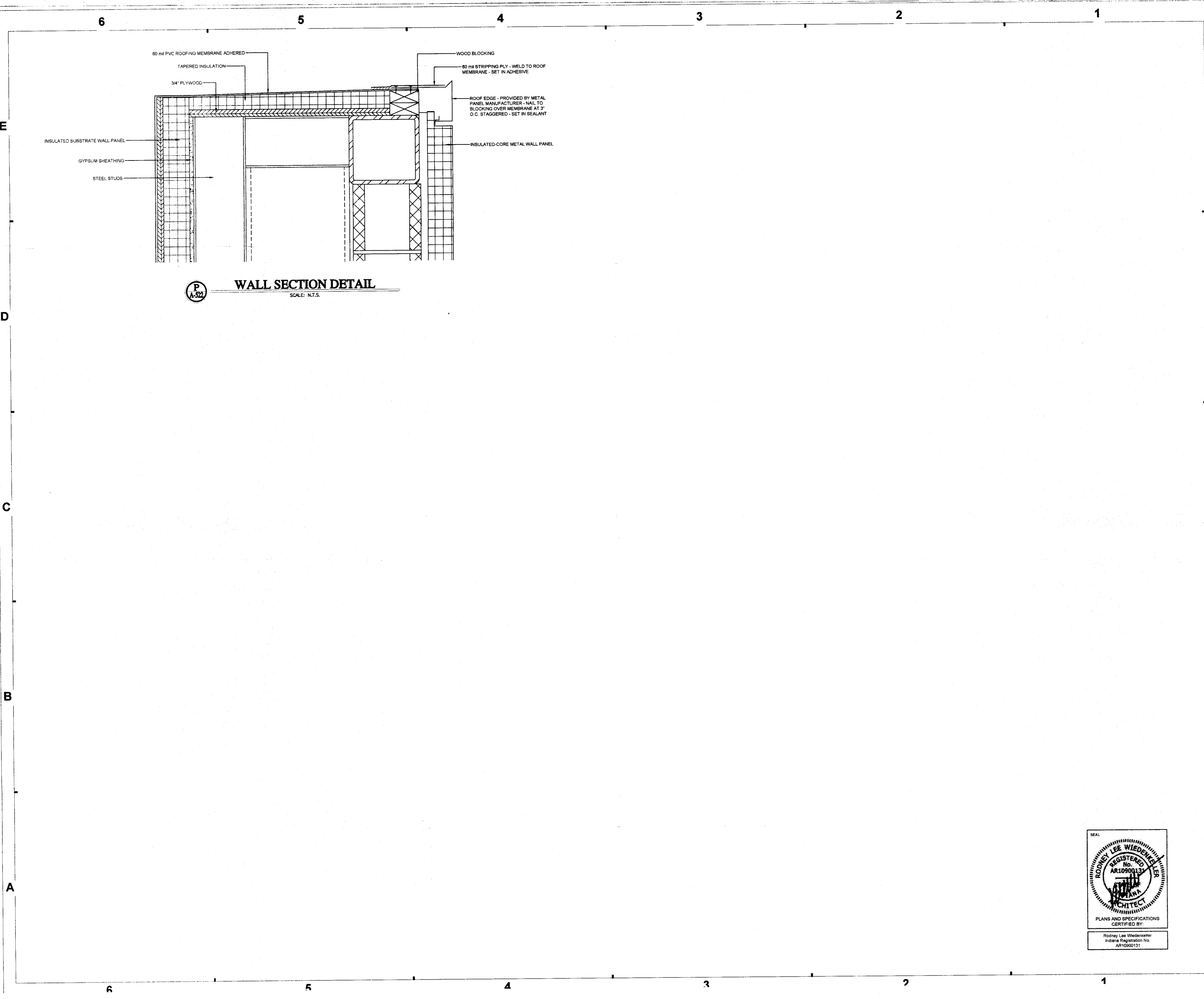
Moisture
Management9855 Crosspoint Blvd., Suite 100
Indianapolis, IN 46255
317.577.0910
Fax: 317.577.0912

Project Address

MSD OF
LAWRENCE
TOWNSHIPLC EXTERIOR
FACILITY UPGRADES

ROOF DETAILS

A-521



WALL SECTION DETAIL
SCALE: N.T.S.

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#	Revision	Date
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Moisture Management
9655 Crosspoint Blvd., Suite 100
Indianapolis, IN 46256
317.577.0910
Fax: 317.577.0912

Project Address

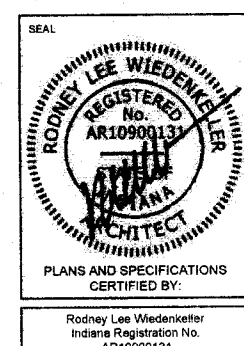
MSD OF
LAWRENCE
TOWNSHIP

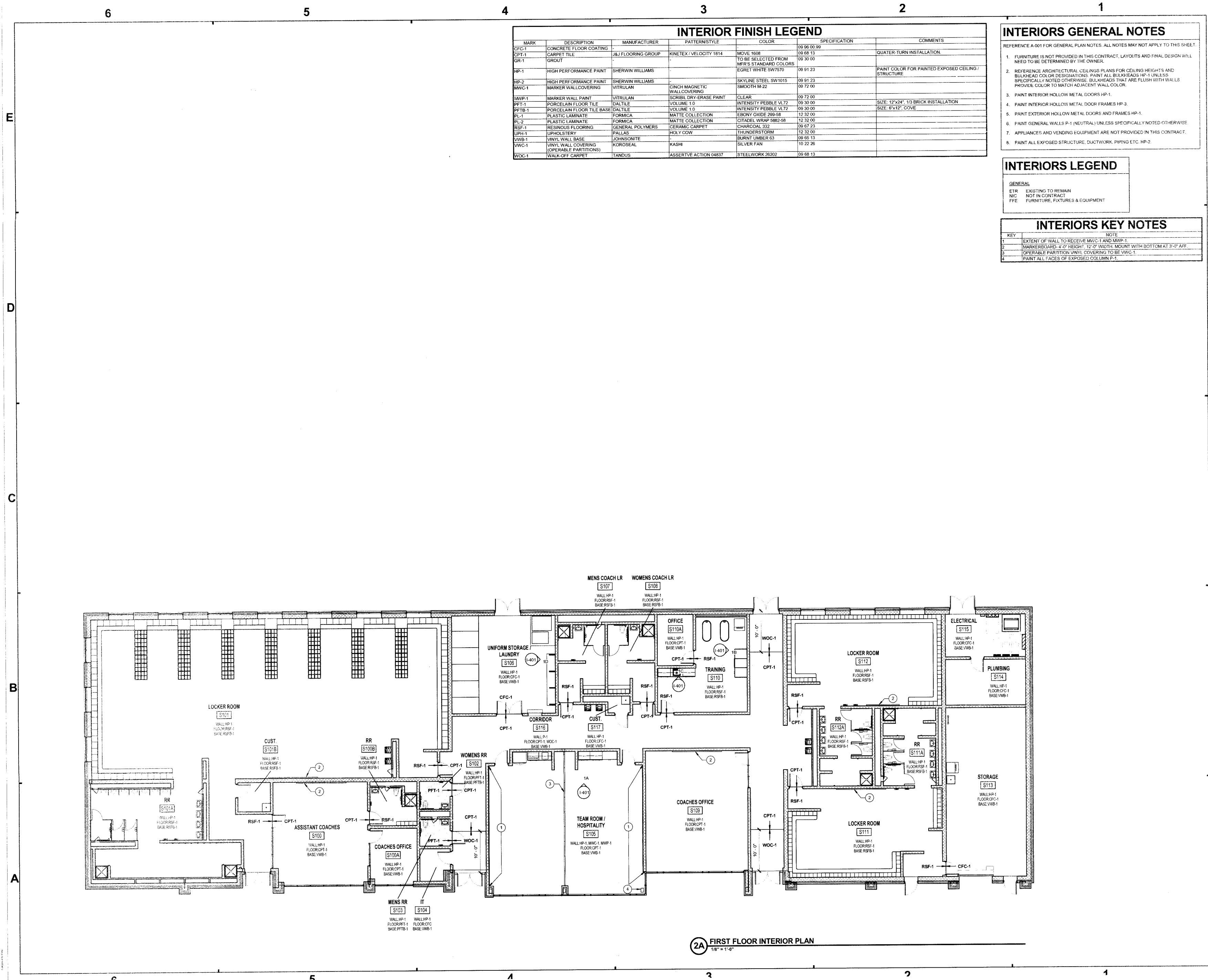


LC EXTERIOR
FACILITY UPGRADES

ROOF DETAILS

A-522





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ASSOCIATES
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Indianapolis, Indiana 46204
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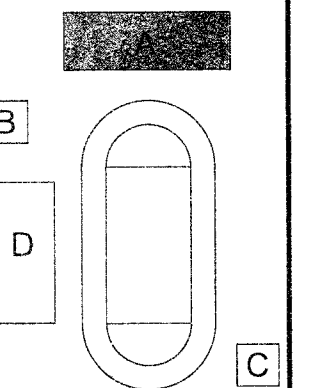
Project No. 2015-121 LCS
Project Date 04.18.2016
Produced By Designer AEC



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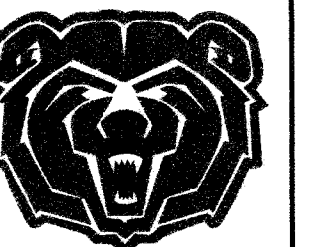
Revision Date

7300 E. 56th Street
Indianapolis, IN 46226



KEY PLAN

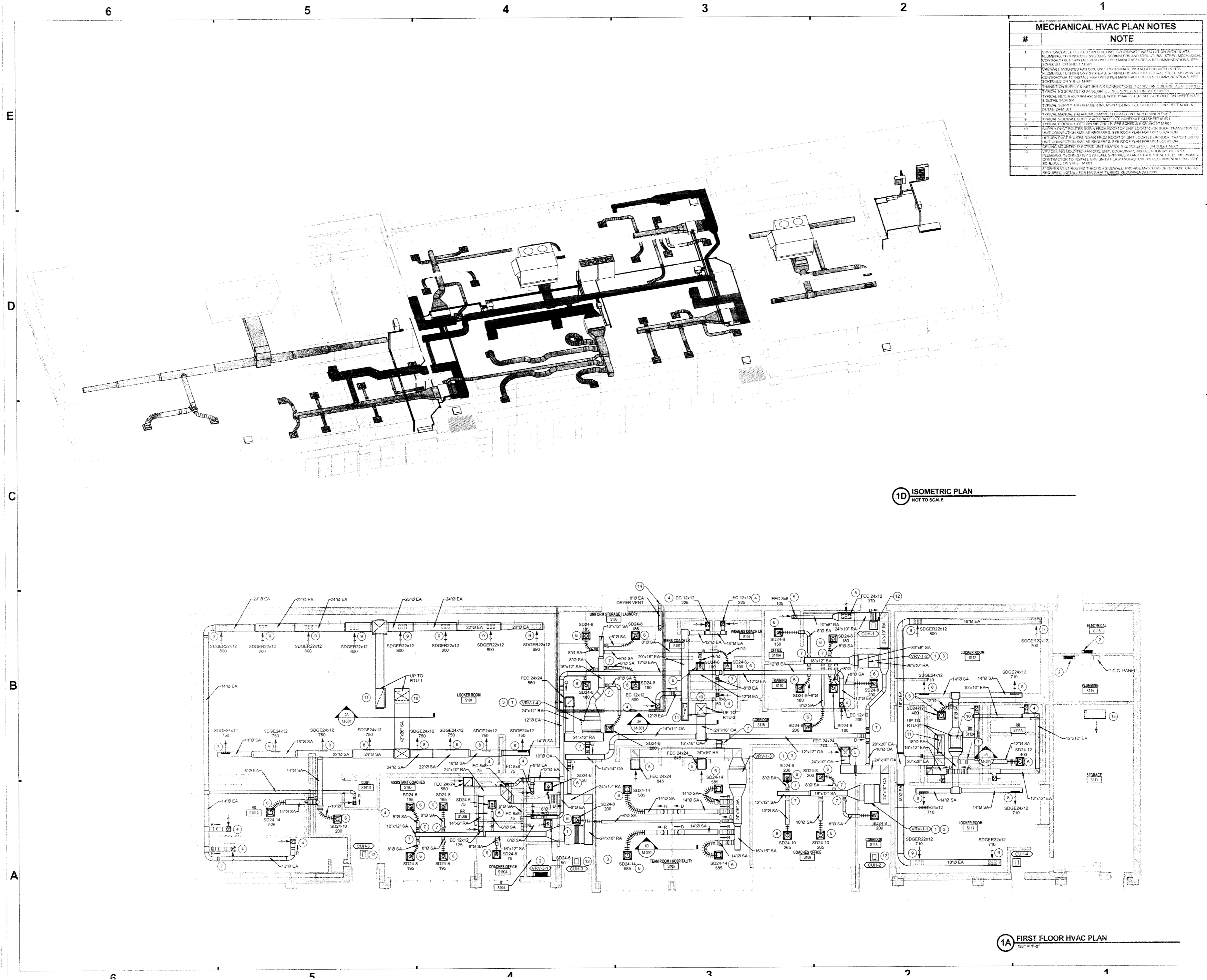
MSD OF
LAWRENCE
TOWNSHIP



LC EXTERIOR
FACILITY
UPGRADES - BP2

FIRST FLOOR INTERIOR
PLAN

IN1A1



SCHMIDT
ASSOCIATES
415 Massachusetts Avenue
Indianapolis, Indiana 46204
www.schmidt-arch.com

Project No. 2015-121 LCS
Project Date 04.18.2016
Project Location BAW / DBC

STATE OF INDIANA
NO. 32631
STATE OF INDIANA
ARCHITECT
W. J. Schmidt

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B

D

C

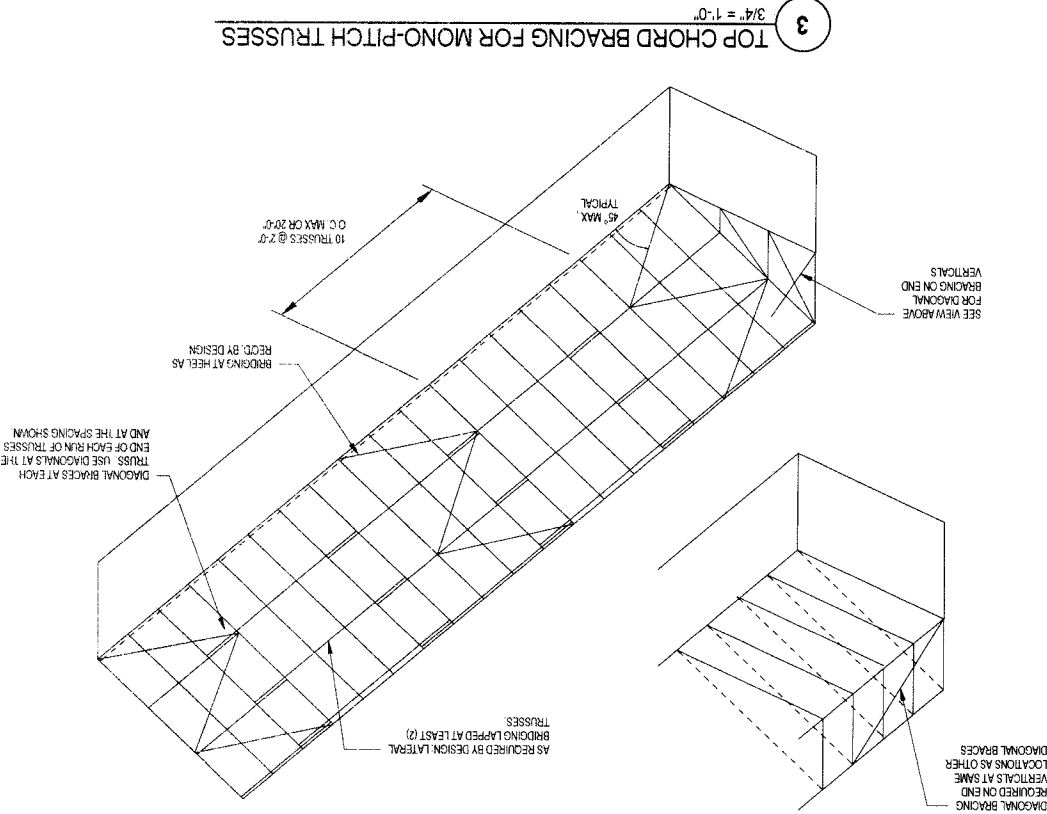
KEY PLAN

MSD OF LAWRENCE TOWNSHIP

LC EXTERIOR FACILITY UPGRADES - BP2

FIRST FLOOR HVAC PLAN - UNIT A

MH1A1



3 TOP CHORD BRACING FOR MONO-PITCH TRUSSES $3/4" = 1'-0"$

830

TRUSS USE DIAGONALS AT THE END OF EACH RUN OF TRUSSES AND AT THE SPACING SHOWN

SCHMIDT

1

General Refl. Ceiling Plan Notes

1. All ceilings are at 9'-6" AFF, unless noted otherwise.
2. All exposed ductwork, piping etc. shall be painted. Color selected by Architect.

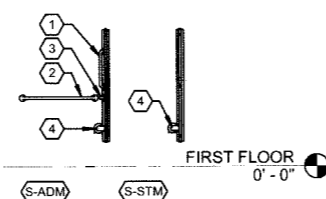
5.4.120 - CEILING PLAN NOTES	
KEY	NOTE
1	CONTROL JOINT
2	ALUMINUM GUTTER, REFER TO ROOF DETAILS
3	16" X 16" ACCESS PANEL, COORDINATE LOCATION WITH VALVES.

General Plan Notes

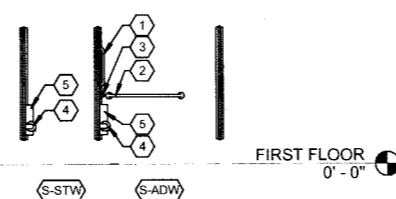
- | | |
|----|---|
| 1. | All dimensions shown are to face of stud or masonry, unless noted otherwise. Dimensions designated as "CLR" or "clear" indicate a clear dimension from face to face of wall, partition or other obstruction of space. |
| 2. | Dimensions for all openings for Mechanical, Plumbing, Fire Protection and Electrical shall be fit stopped at each floor penetration. |
| 3. | Provide bracing and blocking as required in walls supporting casework, backdrops, marketboards, and restroom accessories. |
| 4. | All door frames are located 4' from adjacent walls be unfitted unless otherwise. |
| 5. | All exposed outside corners of CMU shall be bullnosed. |
| 6. | Seal all joints between dissimilar materials. |
| 7. | All interior walls are Type "M&C", unless noted otherwise. |
| 8. | Base elevation is 0.0' = 861.95' (United States Geological Survey data). |
| 9. | Hatching within walls shown in plans and sections indicates new construction. |

5.4.100 - FLOOR PLAN NOTES	
KEY	NOTE
1	EXTERIOR WALL ALTERNATE - PROVIDE SINGLE WYTHE #18 SPLIT FACE CMU IN LIEU OF EM-8.
2	STAINLESS STEEL COUNTER & WOOD SHELVING. REFER TO I-SERIES DRAWINGS FOR DETAILS.
3	OWNER PROVIDED EQUIPMENT
4	DOWNSPOUT. REFER TO ROOF PLAN FOR GUTTER LAYOUT
5	MOP BASIN. REFER TO P-SERIES DRAWINGS FOR DETAILS

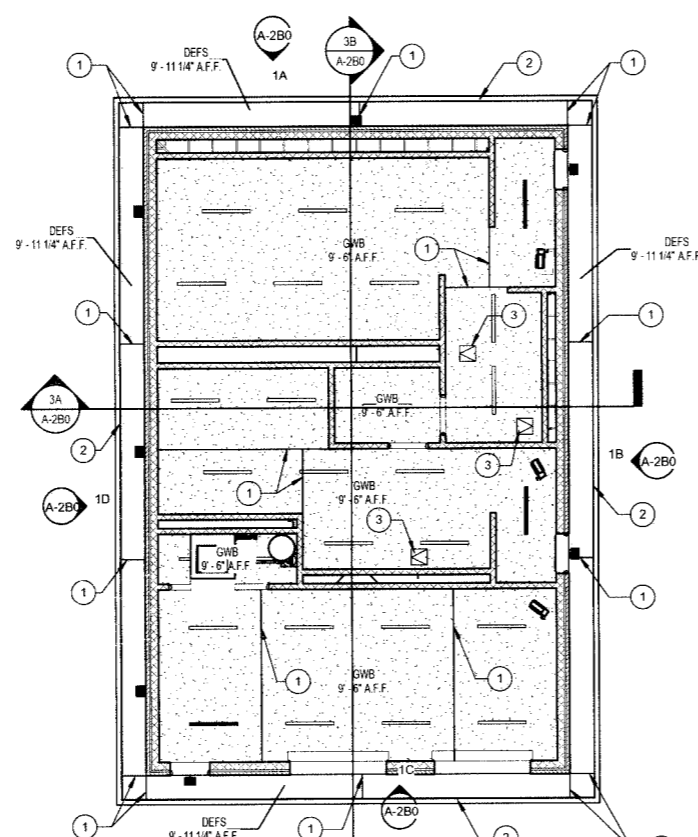
5.4.402 - RESTROOM STALL TYPES	
Toilet Stall Mark	Description
S-ADM	ADA - MENS' STALL
S-ADW	ADA - WOMENS' STALL
S-STM	STANDARD - MENS' STALL
S-STW	STANDARD - WOMENS' STALL



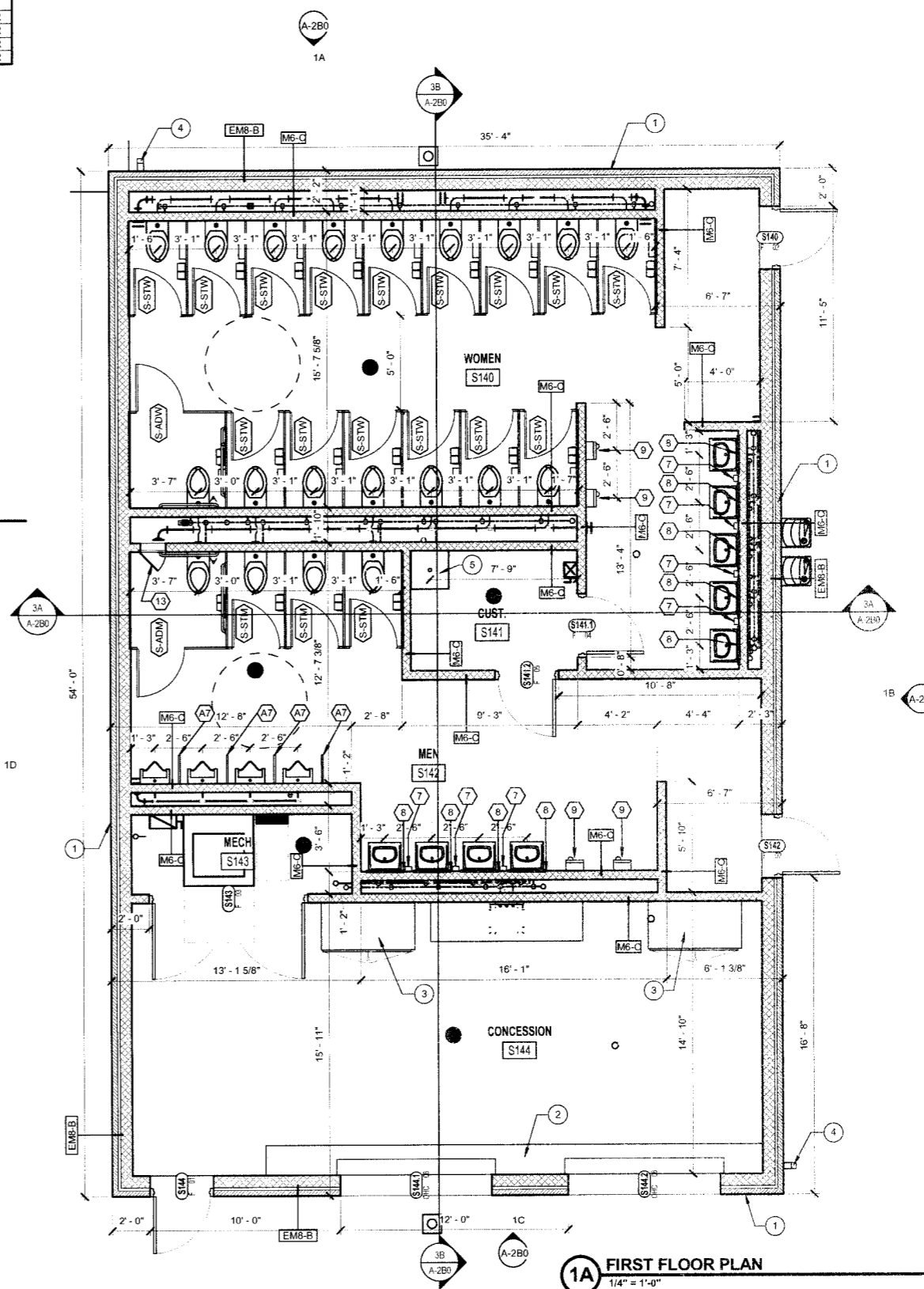
4B MENS RESTROOM STALL TYPES
1/4" = 1'-0"



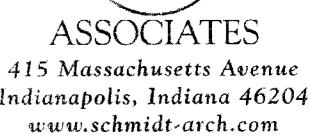
3B WOMENS RESTROOM STALL TYPES
1/4" = 1'-0"



4A FIRST FLOOR REFLECTED CEILING PLAN
1/8" = 1'-0"



1A FIRST FLOOR PLAN
1/4" = 1'-0"

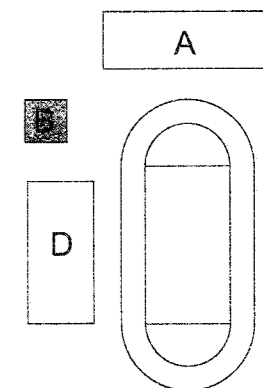
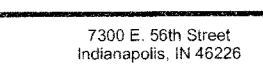


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#	Revision	Date
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KEY PLAN

MSD OF
LAWRENCE
TOWNSHIP

LC EXTERIOR
FACILITY
UPGRADES - BP2

FIRST FLOOR PLAN

AF1B1

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A

INTERIOR FINISH LEGEND

MARK	DESCRIPTION	MANUFACTURER	PATTERN/STYLE	COLOR	SPECIFICATION	COMMENTS
CFC-1	CONCRETE FLOOR COATING				09 96 00 99	
CPT-1	CARPET TILE	J&J FLOORING GROUP	KINETEX / VELOCITY 1814	MOVE 1608	09 68 13	QUARTER TURN INSTALLATION
GR-1	GROUT			TO BE SELECTED FROM MFR'S STANDARD COLORS	09 30 00	
HP-1	HIGH PERFORMANCE PAINT	SHERWIN WILLIAMS		SKYLINE STEEL SW1015	09 91 23	
HP-2	HIGH PERFORMANCE PAINT	SHERWIN WILLIAMS		EGRET WHITE SW7570	09 91 23	PAIN'T COLOR FOR PAINTED EXPOSED CEILING / STRUCTURE
HP-3	HIGH PERFORMANCE PAINT	SHERWIN WILLIAMS		IRON ORE SW7069	09 91 23	
MWC-1	MARKER WALLCOVERING	VITRULAN	CINCH MAGNETIC WALLCOVERING	SMOOTH M-22	09 72 00	
MWP-1	MARKER WALL PAINT	VITRULAN	SCRIBBL DRY-ERASE PAINT	CLEAR	09 72 00	
PFT-1	PORCELAIN FLOOR TILE	DALTILE	VOLUME 1.0	INTENSITY PEBBLE VL72	09 30 00	SIZE: 12"x24", 1/3 BRICK INSTALLATION
PFTB-1	PORCELAIN FLOOR TILE BASE	DALTILE	VOLUME 1.0	INTENSITY PEBBLE VL72	09 30 00	SIZE: 6"x12", COVE
PL-1	PLASTIC LAMINATE	FORMICA	MATTE COLLECTION	EBONY OXIDE 299-58	12 32 00	
PL-2	PLASTIC LAMINATE	FORMICA	MATTE COLLECTION	CITADEL WARP 5882-58	12 32 00	
RSF-1	RESINOUS FLOORING	GENERAL POLYMERS	CERAMIC CARPET	CHARCOAL 332	09 67 23	
UPH-1	UPHOLSTERY	PALLAS	HOLY COW	THUNDERSTORM	12 32 00	
VWB-1	VINYL WALL BASE	JOHNSONITE		BURN'T UMBER 63	09 65 13	
VWC-1	VINYL WALLCOVERING (OPENABLE PARTITIONS)	KOROSEAL	KASHI	SILVER FAN	10 22 26	
WOC-1	WALK-OFF CARPET	TANDUS	ASSERTIVE ACTION 04837	STEELWORK 26202	09 68 13	

INTERIORS GENERAL NOTES

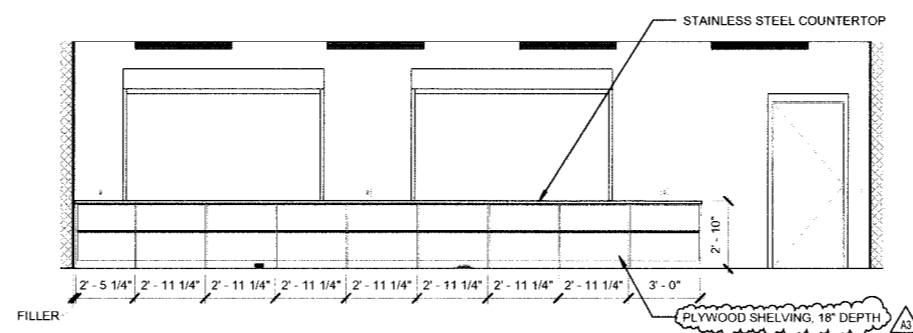
- REFERENCE A-001 FOR GENERAL PLAN NOTES. ALL NOTES MAY NOT APPLY TO THIS SHEET.
- FURNITURE IS NOT PROVIDED IN THIS CONTRACT. LAYOUTS AND FINAL DESIGN WILL NEED TO BE DETERMINED BY THE OWNER.
 - REFERENCE ARCHITECTURAL CEILING PLANS FOR CEILING HEIGHTS AND BULKHEAD COLOR DESIGNATIONS. PAINT ALL BULKHEADS HP-1 UNLESS SPECIFICALLY NOTED OTHERWISE. BULKHEADS THAT ARE FLUSH WITH WALLS PROVIDE COLOR TO MATCH ADJACENT WALL COLOR.
 - PAINT INTERIOR HOLLOW METAL DOORS HP-1.
 - PAINT INTERIOR HOLLOW METAL DOOR FRAMES HP-3.
 - PAINT EXTERIOR HOLLOW METAL DOORS AND FRAMES HP-1.
 - PAINT GENERAL WALLS P-1 (NEUTRAL) UNLESS SPECIFICALLY NOTED OTHERWISE.
 - APPLIANCES AND VENDING EQUIPMENT ARE NOT PROVIDED IN THIS CONTRACT.
 - PAINT ALL EXPOSED STRUCTURE, DUCTWORK, PIPING ETC. HP-2.

INTERIORS LEGEND

GENERAL
ETR EXISTING TO REMAIN
NIC NOT IN CONTRACT
FTE FURNITURE, FIXTURES & EQUIPMENT

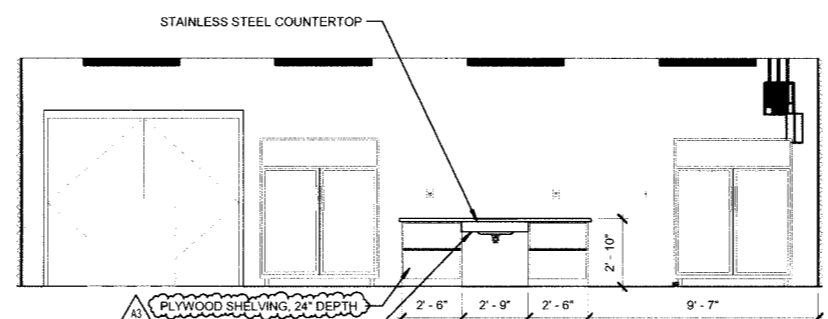
INTERIOR KEY NOTES

KEY	NOTE
1	NOT USED



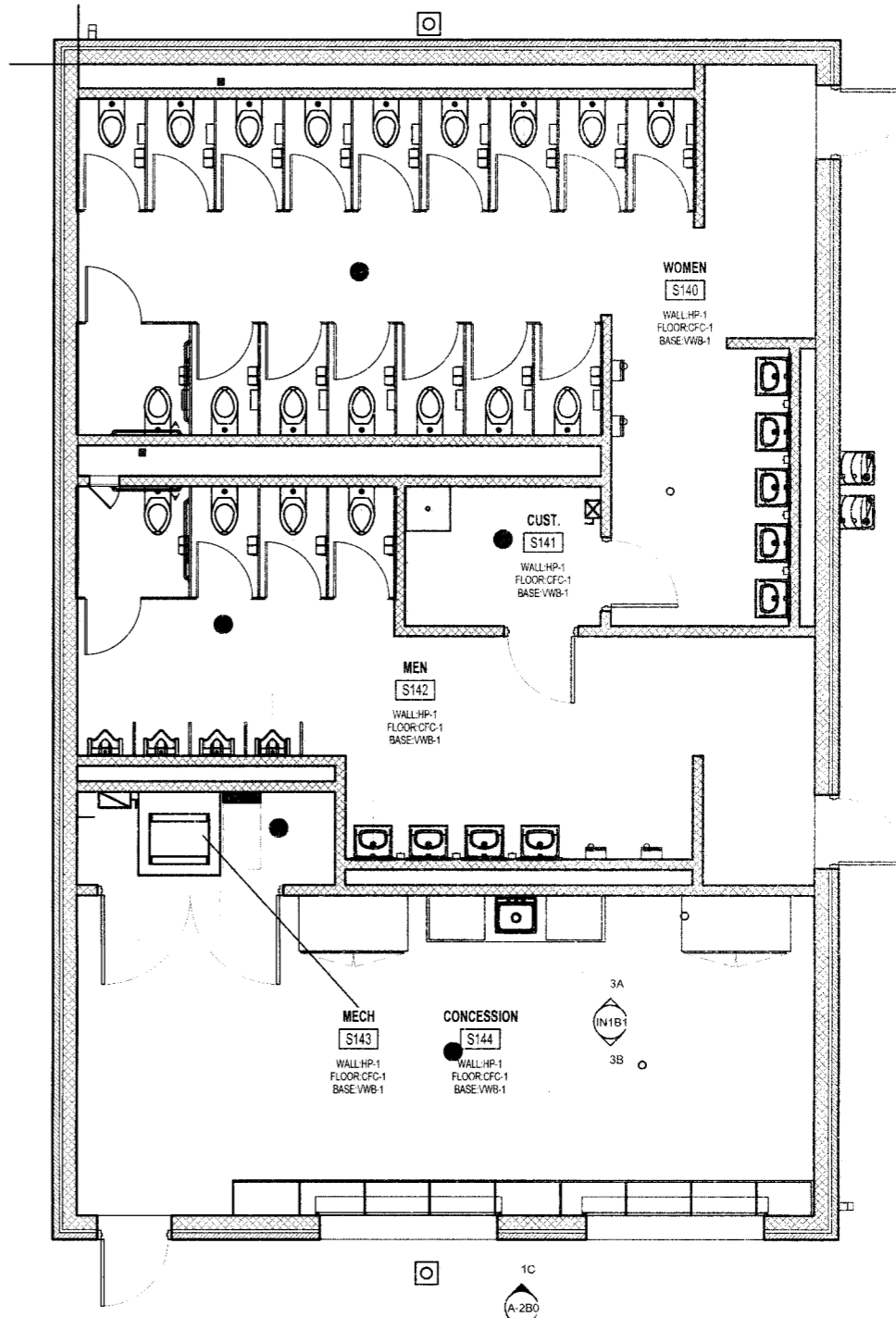
3B CONCESSIONS SOUTH ELEVATION

1/4" = 1'-0"



3A CONCESSIONS NORTH ELEVATION

1/4" = 1'-0"



1A INTERIOR FIRST FLOOR PLAN

1/4" = 1'-0"

SCHMIDT



ASSOCIATES

415 Massachusetts Avenue

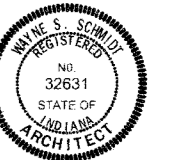
Indianapolis, Indiana 46204

www.schmidt-arch.com

Project No. 2015-121 LCS

Project Date 04.18.2016

Prepared By Designer AEC



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Revision Date

A3 Addendum #3 05.12.2016

7300 E. 56th Street

Indianapolis, IN 46226

A

D

C

N

KEY PLAN

MSD OF

LAWRENCE

TOWNSHIP



LC EXTERIOR

FACILITY

UPGRADES - BP2

FIRST FLOOR INTERIOR

PLAN

IN1B1

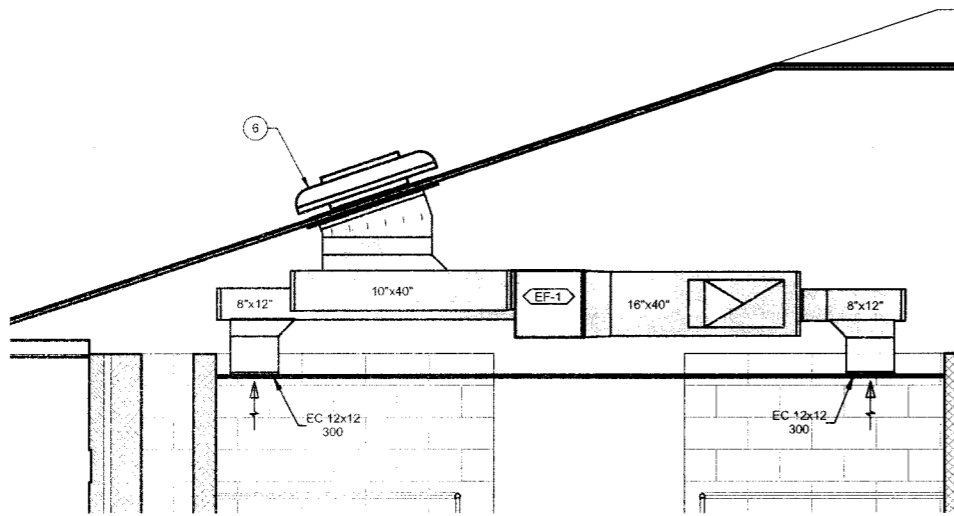
EXHAUST FAN SCHEDULE															UNIT CONTROL	NOTES
IDENTITY DATA				FAN DATA				ELECTRICAL DATA								
MARK	MANUFACTURER	MODEL	SERVES	EXHAUST AIRFLOW (CFM)	ESP (IN-WG)	RPM	SONES	DBA	HP	BHP	VOLTS (V)	PHASE	DISCONNECT PROVIDER			
EF-1	LOREN COOK COMPANY	CR2500	MENG RR RM112 & WOMENS RR RM100	2,125	0.3	851	6.6	56	1	0.371	208	3	ELECTRICAL CONTRACTOR			

IDENTITY DATA				NECK SIZE (IN)				MODULE SIZE				MATERIAL	NOTES
MARK	DESCRIPTION	MANUFACTURER	MODEL	Ø	W	L		Ø	W	L			
EC 8x8	EGG CRATE FACE RETURN	PRICE	80 SERIES	0"	8"	8"		0"	8"	8"		ALUMINUM	
EC 12x12	EGG CRATE FACE RETURN	PRICE	80 SERIES	0"	12"	12"		0"	12"	12"		ALUMINUM	

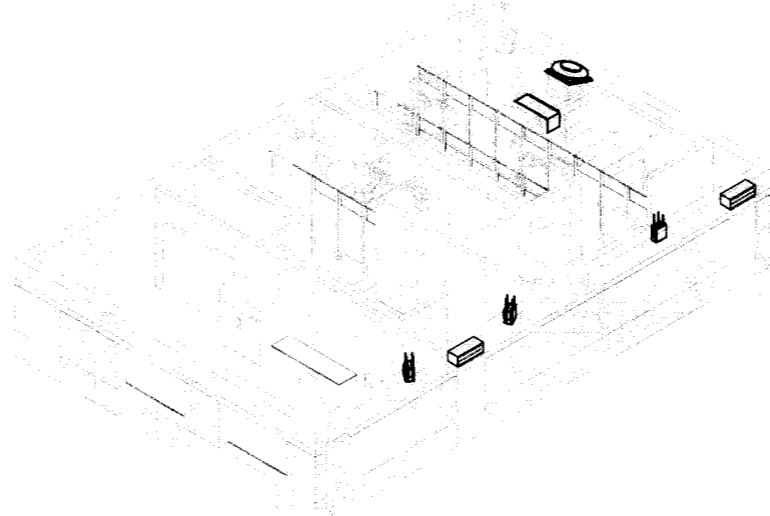
IDENTITY DATA				HEATING DATA				FAN DATA				ELECTRICAL DATA				CONTROL	NOTES
MARK	MANUFACTURER	MODEL	WEIGHT (LBS)	LOCATION	CAPACITY (W)	EAT (°F)	LAT (°F)	AIRFLOW (CFM)	DRIVE	VOLTS (V)	PHASE						
PUH-1	MARLEY ENGINEERED PRODUCTS	MUH078	38.00	CONCESSION RM144	7500	1	60	97	650	DIRECT	208	3				WALL MOUNTED	
PUH-2	MARLEY ENGINEERED PRODUCTS	MUH078	38.00	CONCESSION RM144	7500	1	60	97	650	DIRECT	208	3				WALL MOUNTED	
PUH-3	MARLEY ENGINEERED PRODUCTS	MUH078	38.00	WOMENS RR RM140	7500	1	60	97	650	DIRECT	208	3				WALL MOUNTED	

DUCT ACCESSORY - CONTROL DAMPERS				MARK	SIZE	MANUFACTURER	MODEL	TYPE
CD-1	36"x12"	RUSKIN	CD40X2					STANDARD

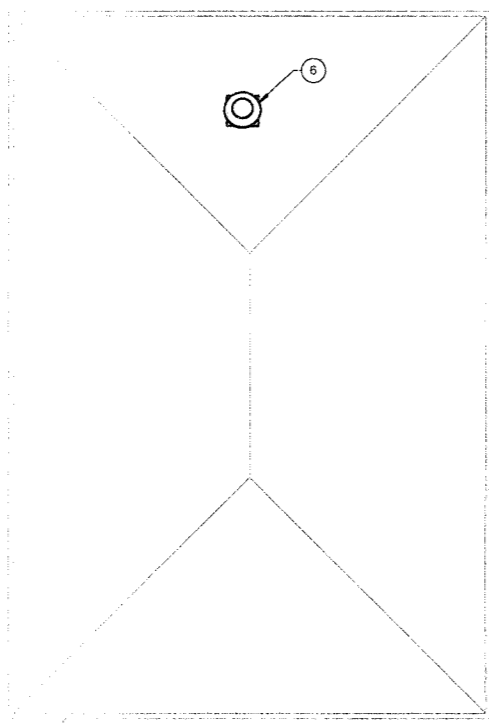
#	NOTE
1	INLINE EXHAUST FAN SEE SCHEDULE ON SHEET M-1B1
2	TYPICAL EGG CRATE EXHAUST AIR GRILLE SEE SCHEDULE ON SHEET M-1B1
3	ELECTRIC PROP UNIT HEATER SEE SCHEDULE ON SHEET M-1B1
4	MAKE UP AIR LOUVER BY ARCHITECT
5	PROVIDE 36" X 12" MOTORIZED CONTROL DAMPER; MOUNT TO LOUVER AS SHOWN ON DETAIL 1A1001
6	PROVIDE ROOF CAP LIKE LOREN COOK MODEL PR20F; MOUNT DIRECTLY ON THE ROOF WITH INTEGRAL FLASHING. NO CURB IS REQUIRED



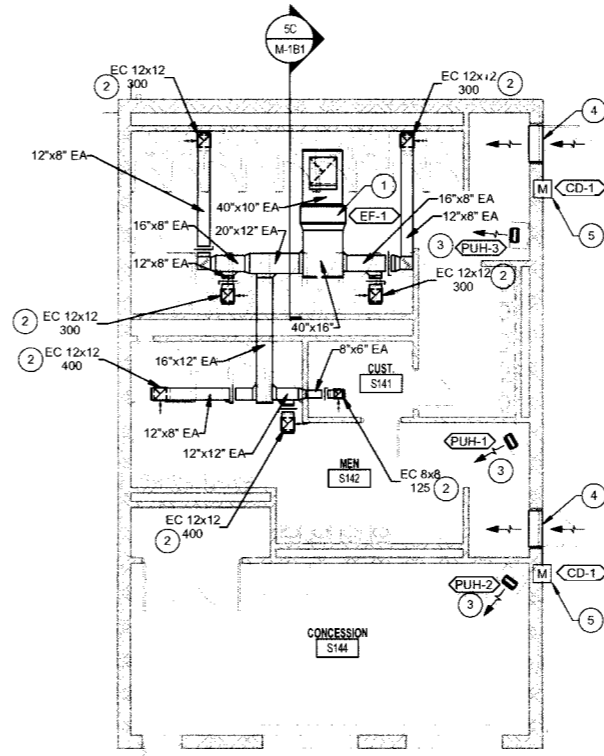
5C ROOF EXHAUST SECTION
1/2" = 1'-0"



2C ISOMETRIC PLAN



5A MECHANICAL HVAC ROOF PLAN
1/8" = 1'-0"



2A FIRST FLOOR HVAC PLAN
1/8" = 1'-0"

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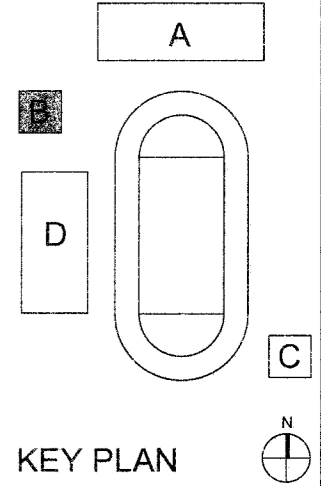
Project No. 2015-121.LCS
Project Date 04.18.2016
Produced by BAW / DBC



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#	Revision	Date
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7300 E. 56th Street
Indianapolis, IN 46226



MSD OF
LAWRENCE
TOWNSHIP
LC EXTERIOR
FACILITY
UPGRADES - BP2

CONCESSION BUILDING
MECHANICAL - UNIT B

M-1B1

6

5

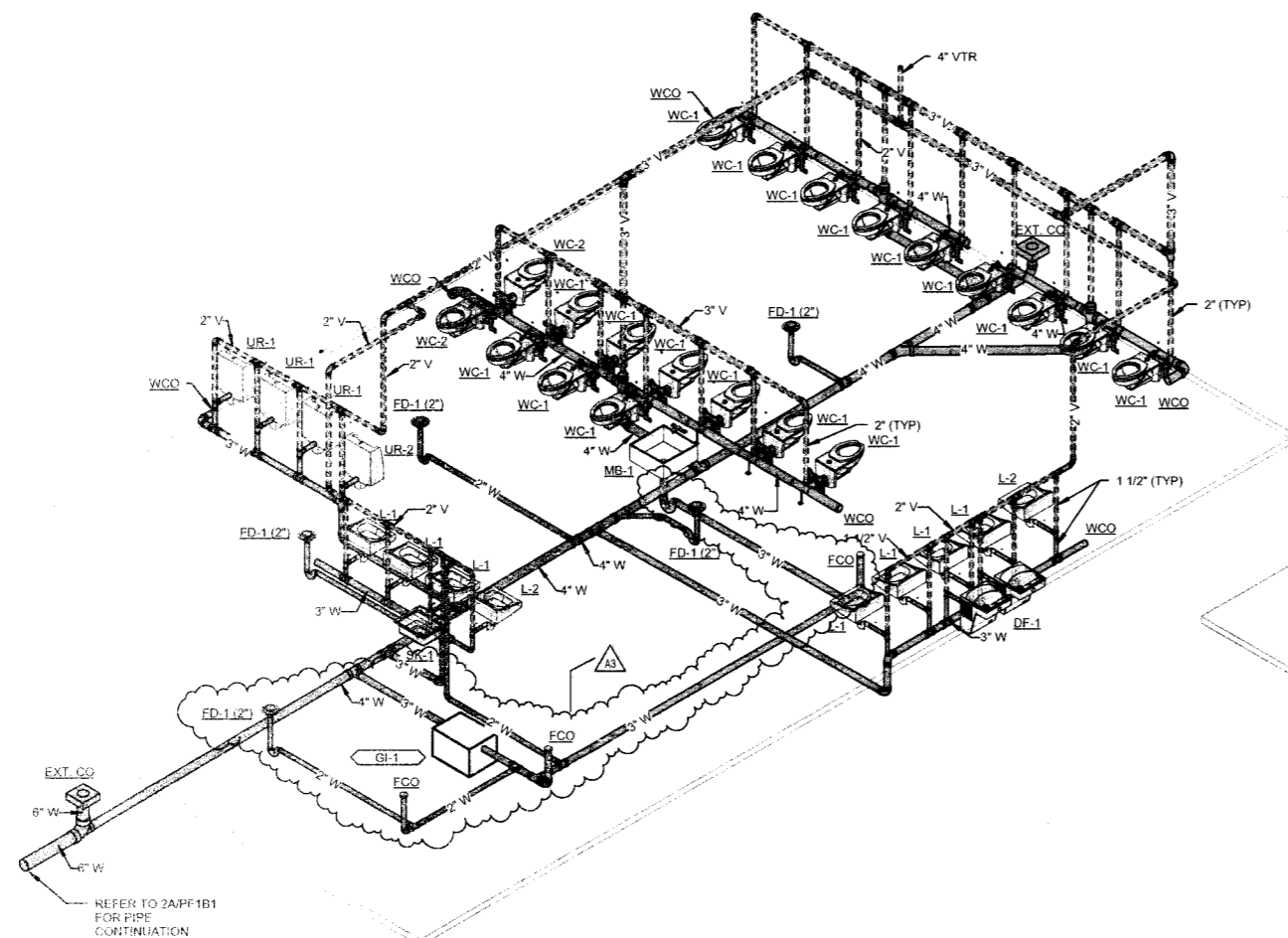
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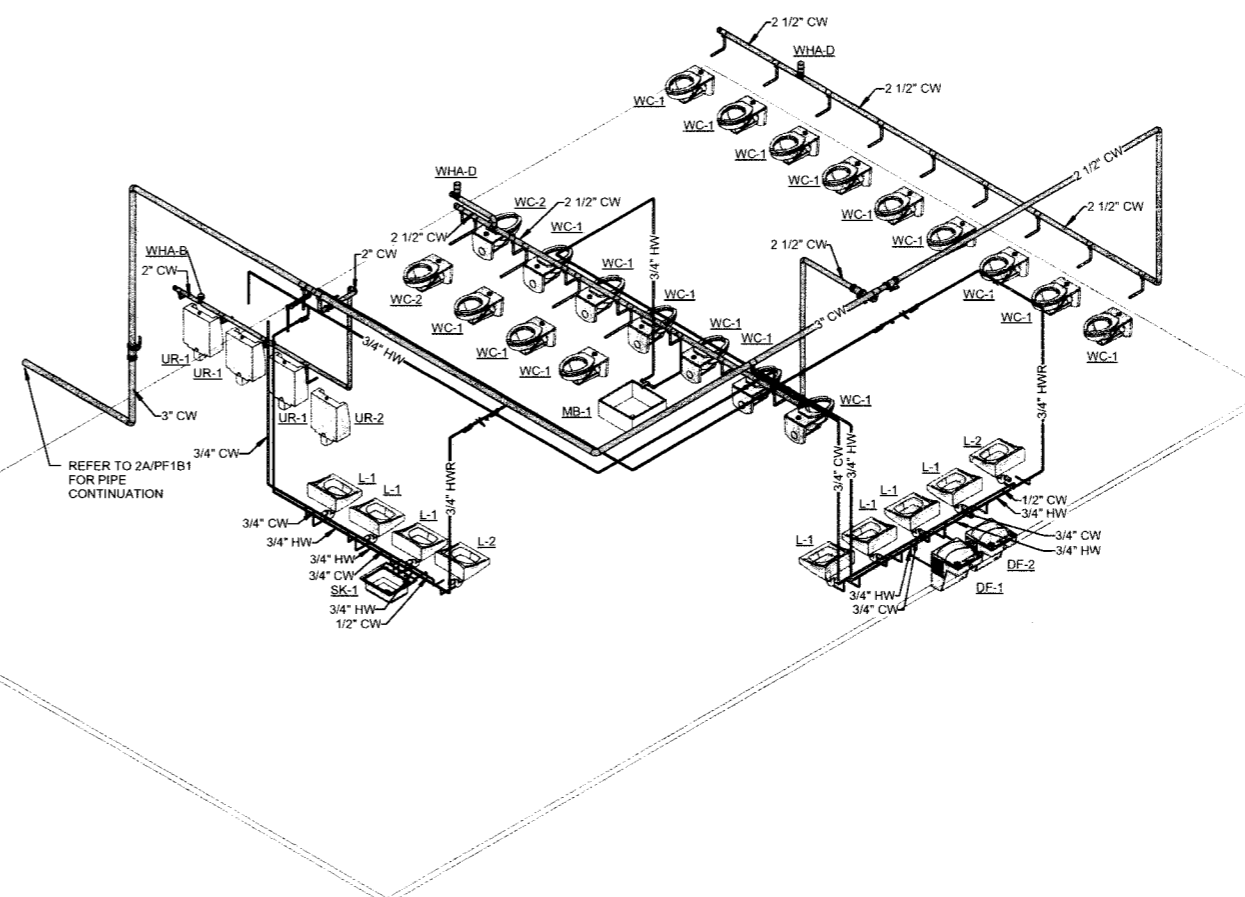
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1

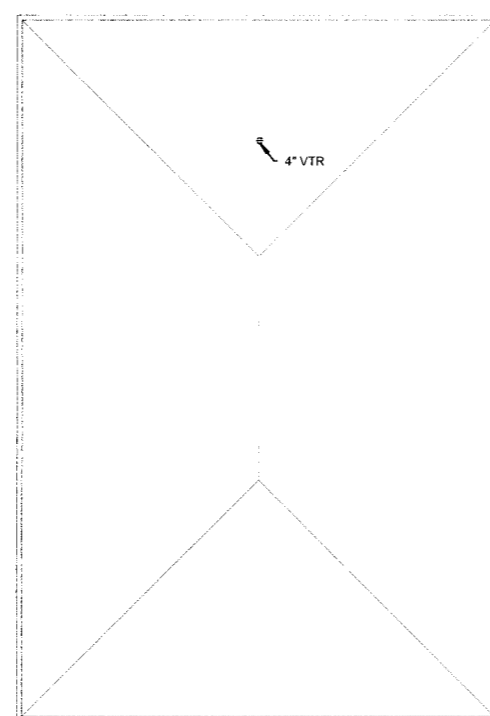
IDENTITY DATA			PLUMBING EQUIPMENT SCHEDULE			ELECTRICAL DATA				NOTES
MARK	MANUFACTURER	MODEL	DESCRIPTION	LOCATION	CAPACITY	VOLTAGE	PHASE	FLA	SPM	
GL-1	ZURN	#072700-25	GREASE INTERCEPTOR	CONCESSION Bldg 144	25 GPM FLOW RATE, 50 LBS GREASE CAPACITY					FLOW CONTROL AS SET FITTING
DWH-2	LOCHINVAR	#ET1050MD	COMPACT ELECTRIC WATER HEATER	CONCESSION BUILDINGS MECHANICAL ROOM	50 GALLONS STORAGE, 42 GPH RECOVERY @ 100 DEGREE TEMP RISE, (2) 5000 WATT ELEMENTS	208 V	3	0.00 A		W/SLIP-ON FLOOR PLATE



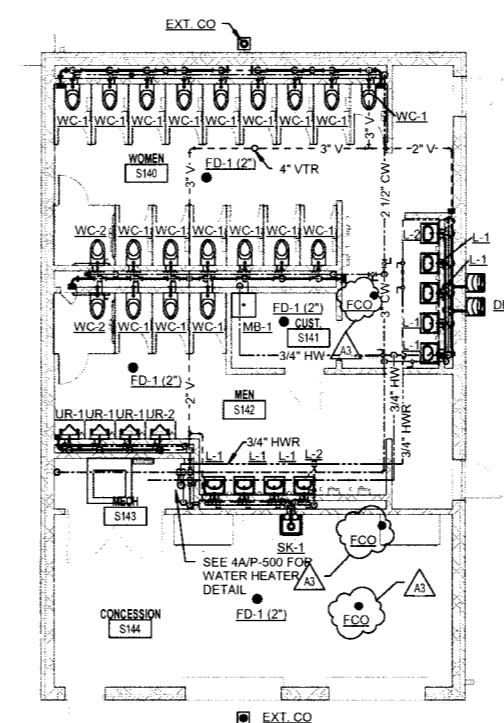
5C OVERALL WASTE AND VENT ISOMETRIC
NOT TO SCALE



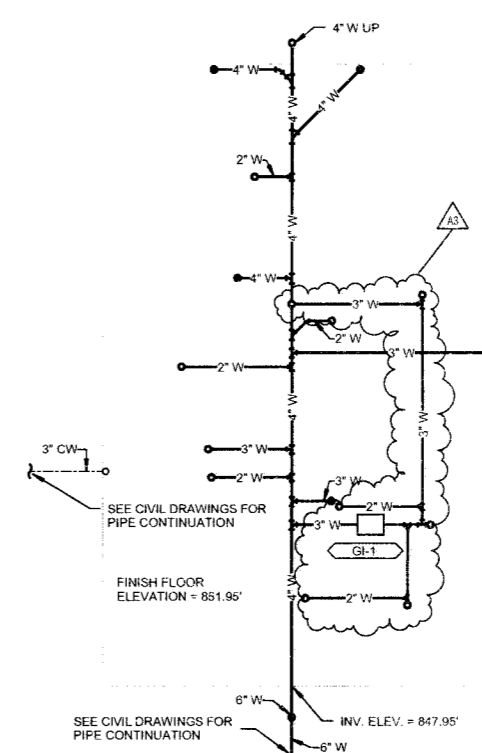
2C OVERALL DOMESTIC WATER ISOMETRIC
NOT TO SCALE



5A ROOF PLUMBING PLAN - UNIT B
1/8" = 1'-0"

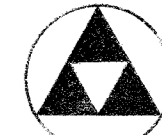


3A FIRST FLOOR PLUMBING PLAN - UNIT B
1/8" = 1'-0"



2A FOUNDATION PLUMBING PLAN - UNIT B
1/8" = 1'-0"

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Project No. 2015-121 LCS
Project Date 04.18.2016
Producer CCW / IOP

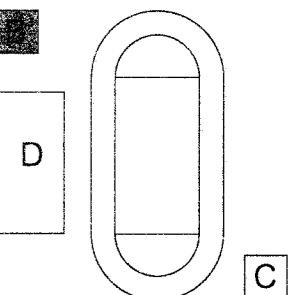


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#	Revision	Date
A2	ADDENDUM NO. 2	05.06.2016
A3	ADDENDUM NO. 3	05.12.2016

7300 E. 56th Street
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A



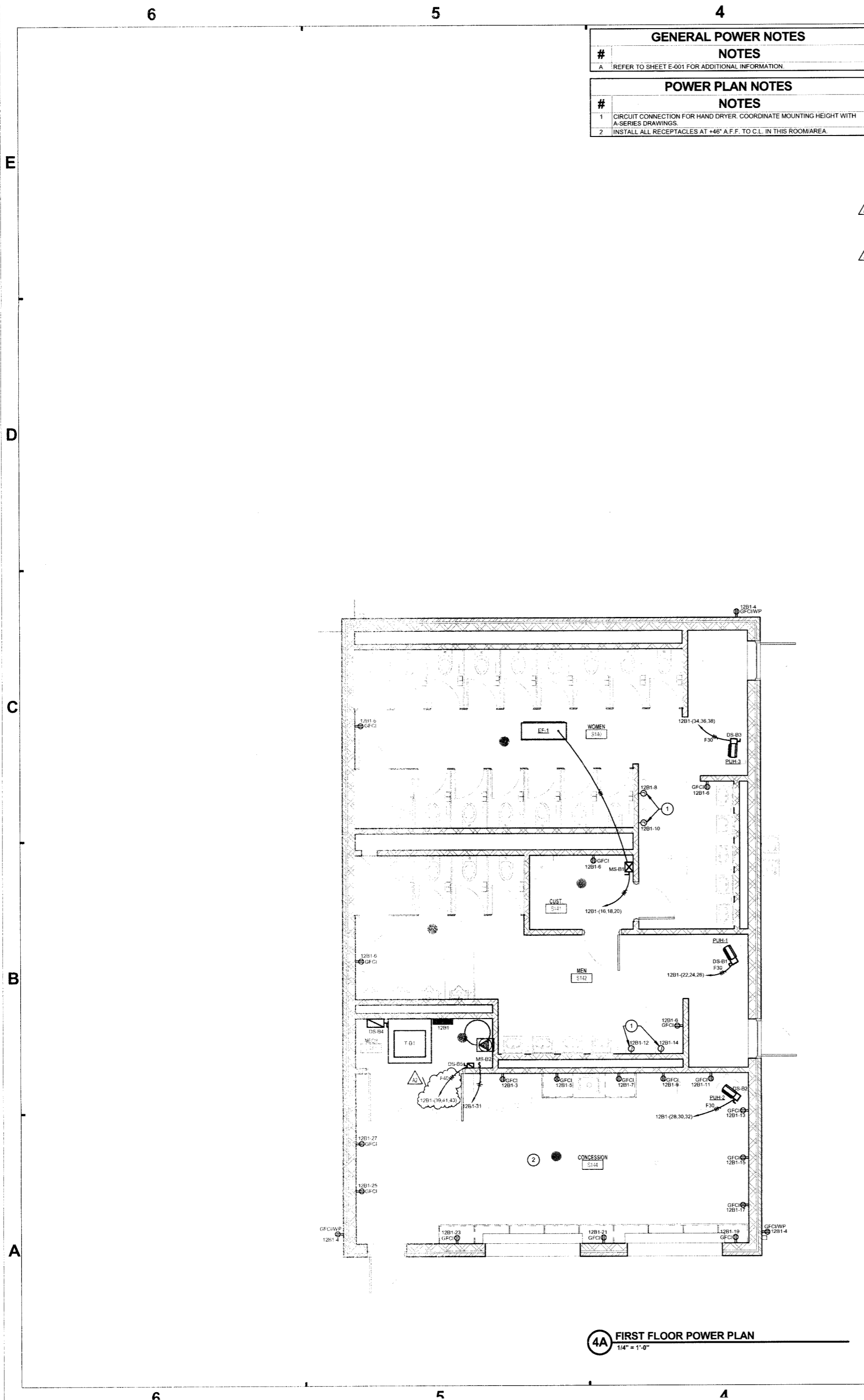
KEY PLAN

MSD OF
LAWRENCE
TOWNSHIP



LC EXTERIOR
FACILITY
UPGRADES - BP2

FOUNDATION, FIRST
FLOOR, ROOF, AND
ISOMETRIC PLUMBING
PLANS - UNIT B
PF1B1



3

2

PANELBOARD SCHEDULE

DESIGNATION: 12B1
LOCATION: MECH S143
MOUNTING: SURFACE
SUPPLY FROM: T-B1

VOLTS: 208Y/120 V
PHASES: 3
WIRES: 4

MAINS RATING: 400 A
MAINS TYPE: MCB
MCB RATING: 300 A
AIC RATING: 10,000 A

CKT NO	CIRCUIT ROOM #	CIRCUIT TYPE	TRIP	POLES	A	B	C	POLES	TRIP	CIRCUIT TYPE	CIRCUIT ROOM #	CKT NO
1	S144, S143, S142, S141, S140	LIGHTING	20 A	1	1.27	0.55		1	20 A	LIGHTING	EXTERIOR	2
3	S144	RECEPT	20 A	1		1.00	0.54	1	20 A	RECEPT	EXTERIOR	4
5	S144	RECEPT	20 A	1		1.00	0.90	1	20 A	RECEPT	S142, S141, S140	6
7	S144	RECEPT	20 A	1	1.00	1.20		1	20 A	HAND DRY	S140 (GFCI CB)	8
9	S144	RECEPT	20 A	1		1.00	1.20	1	20 A	HAND DRY	S140 (GFCI CB)	10
11	S144	RECEPT	20 A	1		1.00	1.20	1	20 A	HAND DRY	S142 (GFCI CB)	12
13	S144	RECEPT	20 A	1	1.00	1.20		1	20 A	HAND DRY	S142 (GFCI CB)	14
15	S144	RECEPT	20 A	1		1.00	0.58	3	20 A	EF	S141	16
17	S144	RECEPT	20 A	1		1.00	0.58	3	20 A	PUH	S142	18
19	S144	RECEPT	20 A	1	1.00	0.58		3	20 A	PUH	S142	20
21	S144	RECEPT	20 A	1		1.00	3.13	3	30 A	PUH	S142	22
23	S144	RECEPT	20 A	1		1.00	3.13	3	20 A	PUH	S144	24
25	S144	RECEPT	20 A	1	1.00	3.13		3	20 A	PUH	S144	26
27	S144	RECEPT	20 A	1		1.00	3.13	3	20 A	PUH	S144	28
29	SPARE		20 A	1				3	20 A	PUH	S144	30
31	S143	CIRC. PUMP	20 A	1	0.53	3.13		3	20 A	PUH	S140	32
33	12B2	PNL	100 A	3		0.00	3.13	3	30 A	PUH	S140	34
35								3	30 A	PUH	S140	36
37						0.00	3.13	3	20 A	SPARE		38
39	S143	WTR. HTR.	40 A	3		3.36	0.00	1	20 A	SPARE		40
41						3.36	0.00	1	20 A	SPARE		42
43						0.00	0.00	1	20 A	SPARE		44
45	SPARE		20 A	1		0.00	0.00	1	20 A	SPARE		46
47	SPARE		20 A	1		0.00	0.00	1	20 A	SPARE		48
49	SPARE		20 A	1	0.00	0.00		1	20 A	SPARE		50
51	SPARE		20 A	1		0.00	0.00	1	20 A	SPARE		52
53	SPARE		20 A	1		0.00	0.00	1	20 A	SPARE		54
TOTAL LOAD:					22.08 kVA	20.06 kVA	10.42 kVA					
TOTAL AMPS:					185 A	188 A	162 A					
TOTAL CONNECTED LOAD:					61.55 kVA							
TOTAL CONNECTED AMPS:					185 A							
NOTES:					1. MODIFY AIC AS REQUIRED PER SPECIFICATION SECTION 280574.99.							

GENERAL LIGHTING NOTES

#

A REFER TO SHEET E-001 FOR ADDITIONAL INFORMATION.

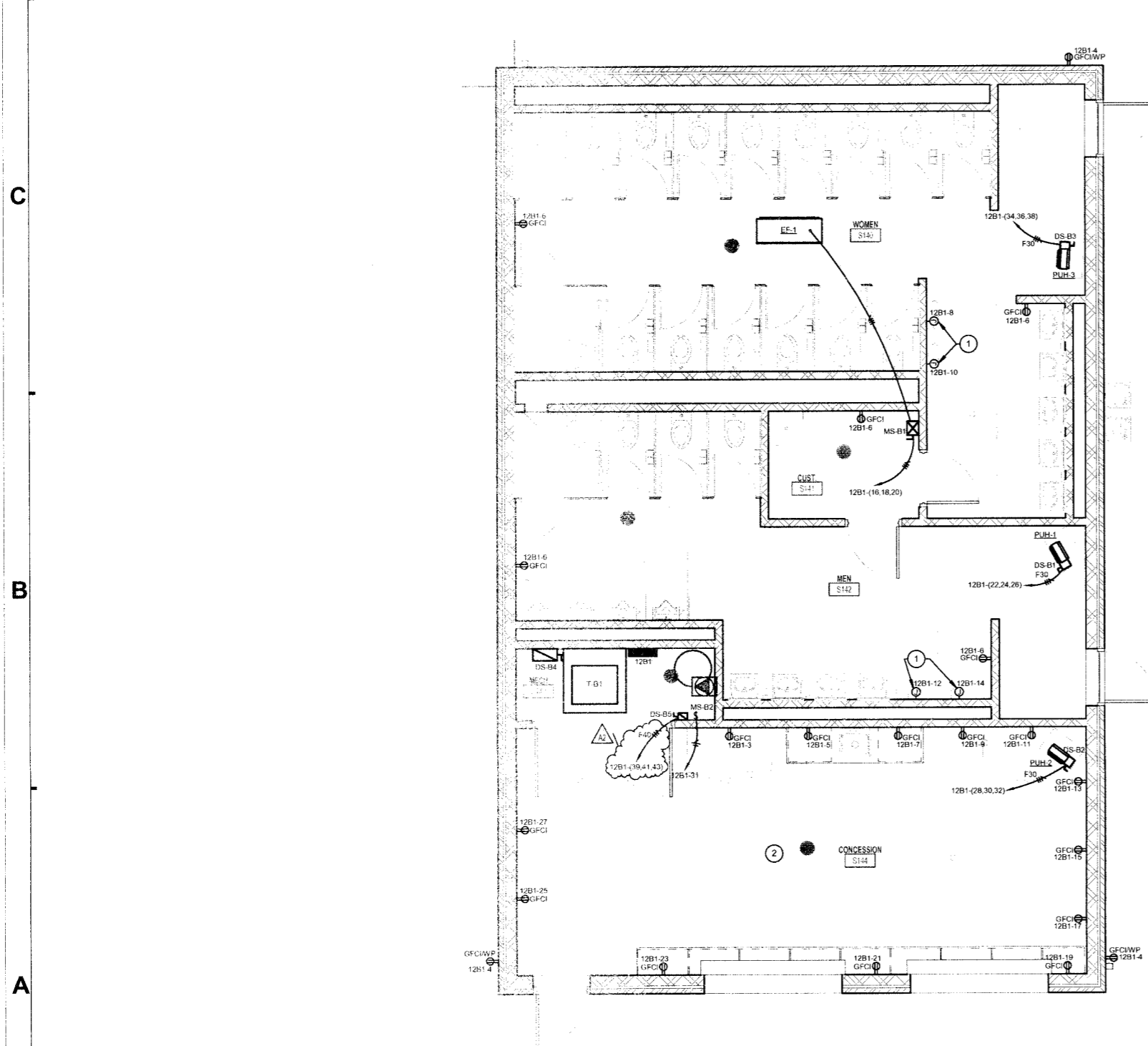
LIGHTING PLAN NOTES

#

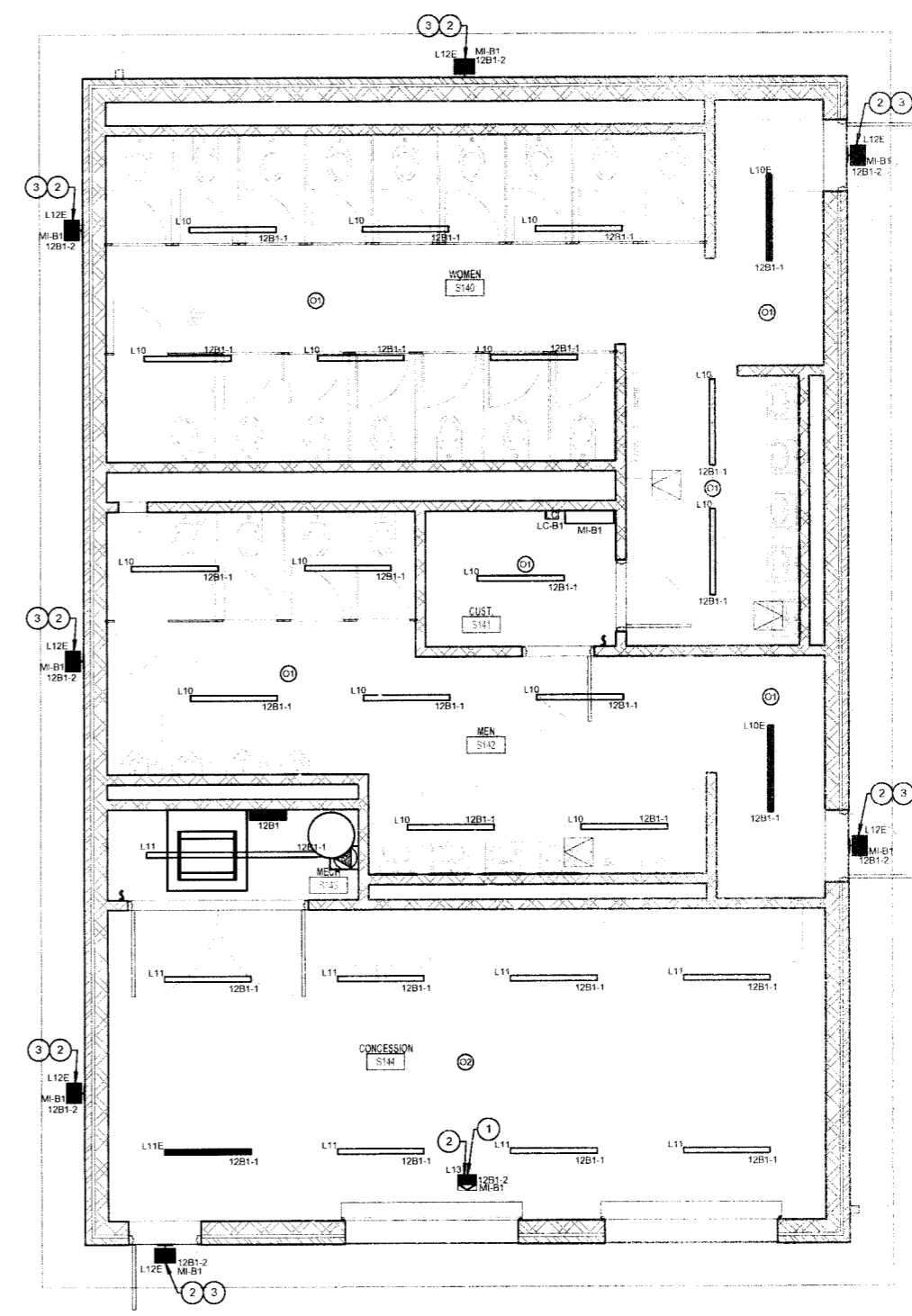
1 LIGHT FIXTURE MOUNTED TO ROOF. COORDINATE ALL MOUNTING REQUIREMENTS PRIOR TO INSTALLATION. FIELD ADJUST LIGHT FIXTURE FOR MAXIMUM COVERAGE OF SITE.

2 LIGHT FIXTURE CONTROLLED BY LIGHTING CONTACTOR LC-B1.

3 INSTALL LIGHT FIXTURE IN BRICK BAND AROUND BUILDING. REFER TO A-SERIES DRAWINGS FOR MOUNTING HEIGHT.



4A FIRST FLOOR POWER PLAN
1/4" = 1'-0"



1A FIRST FLOOR LIGHTING PLAN
1/4" = 1'-0"

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Project No: 2015-121.LCS
Project Date: 04.18.2016
Produced: SACM/JAR

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Revision Date
A2 ADDENDUM NO. 2 05.06.2016

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KEY PLAN

MSD OF LAWRENCE TOWNSHIP

LC EXTERIOR FACILITY UPGRADES - BP2

LIGHTING & POWER PLANS - UNIT B

EL1B1

6

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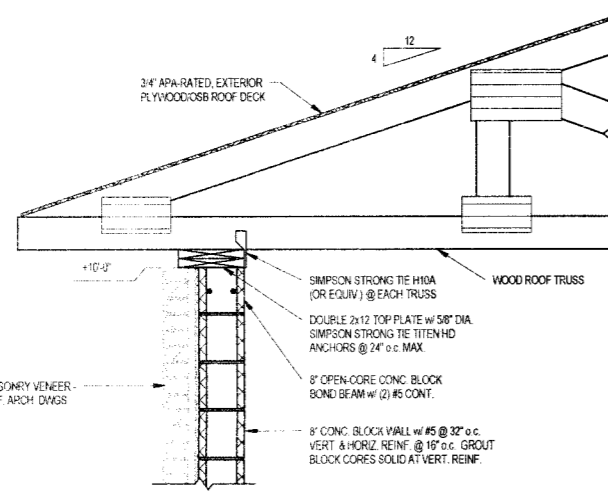
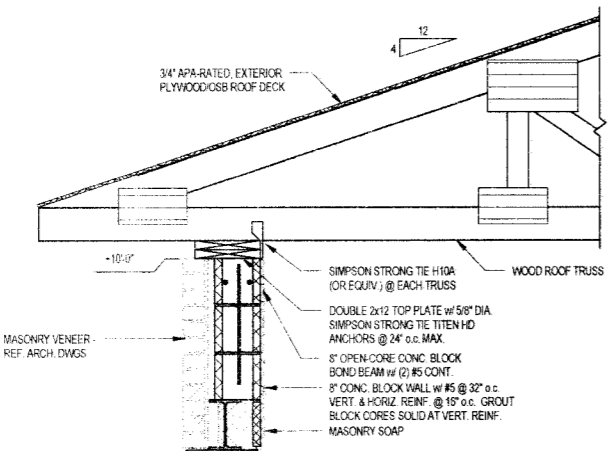
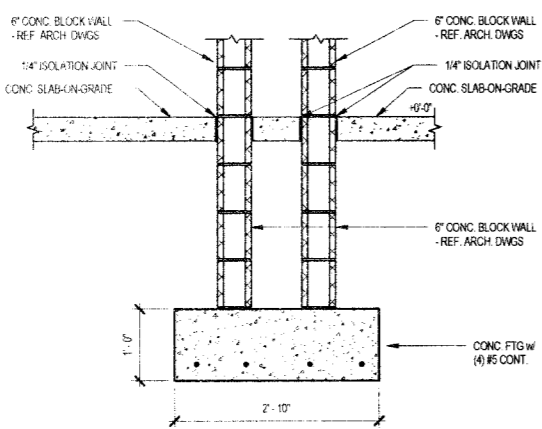
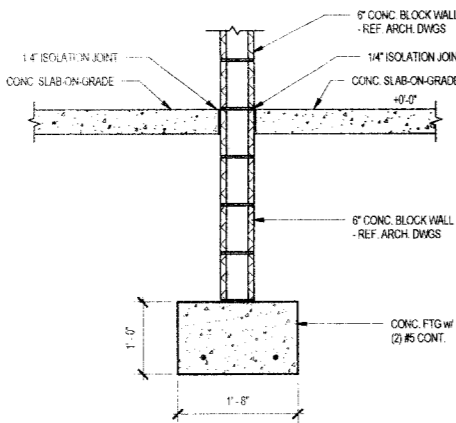
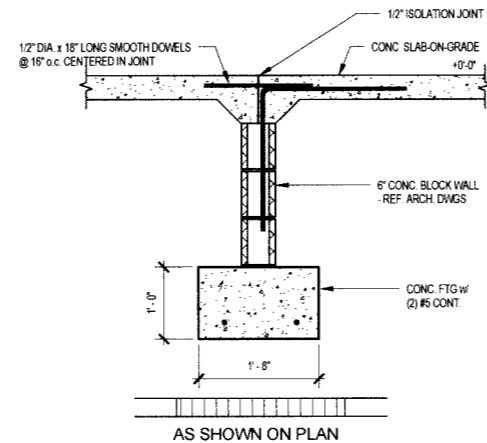
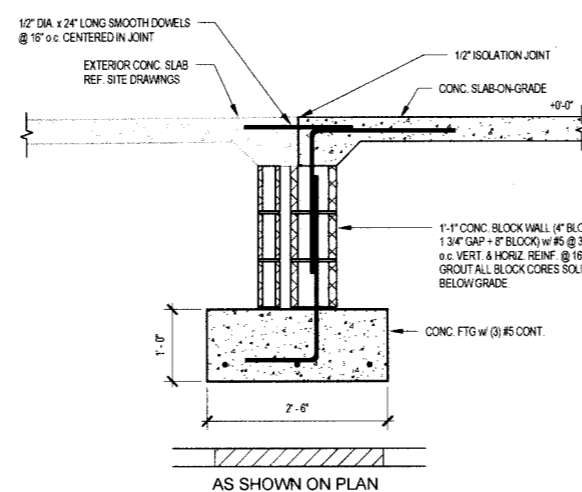
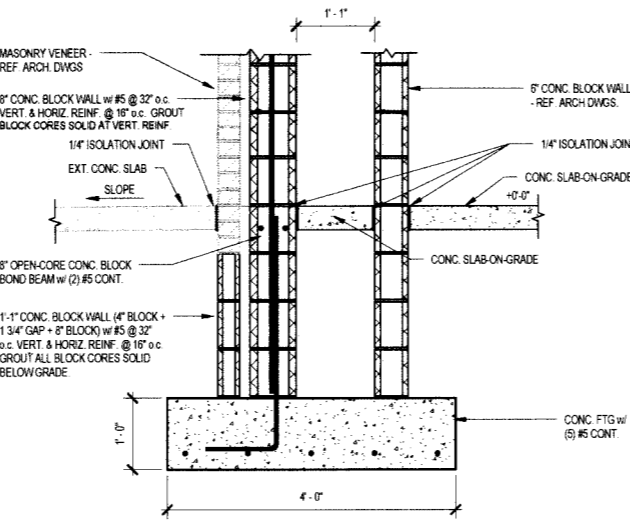
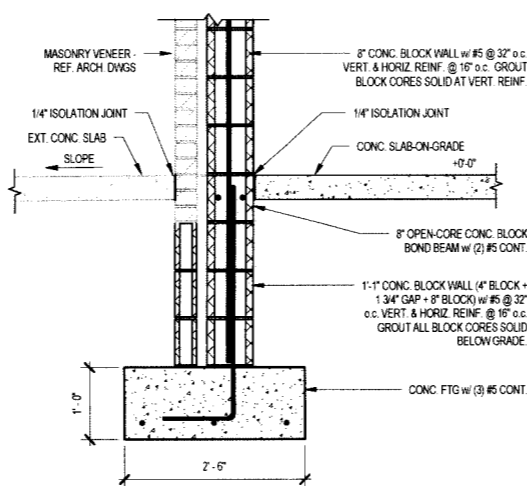
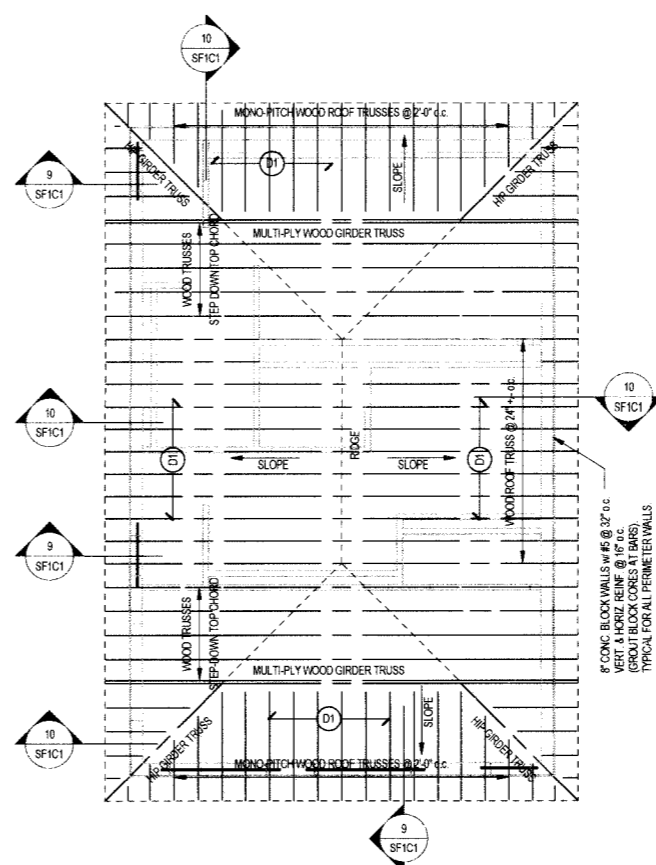
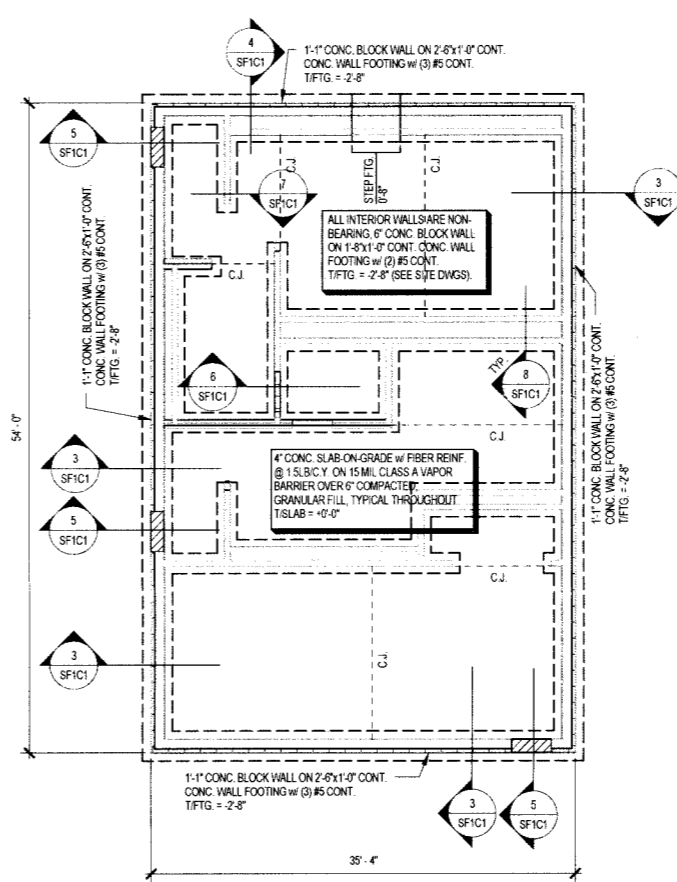
E

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B

A

10 SECTION
3/4" = 1'-0"9 SECTION
3/4" = 1'-0"8 SECTION
3/4" = 1'-0"7 SECTION
3/4" = 1'-0"6 SECTION
3/4" = 1'-0"5 SECTION
3/4" = 1'-0"4 SECTION
3/4" = 1'-0"3 SECTION
3/4" = 1'-0"2 ROOF FRAMING PLAN - BUILDING C (ALTERNATE)
1/8" = 1'-0"1 FOUNDATION PLAN - BUILDING C (ALTERNATE)
1/8" = 1'-0"

STRUCTURAL PLAN NOTES

1. ALL CONTRACTORS ARE REQUIRED TO COORDINATE THEIR WORK WITH ALL DISCIPLINES TO AVOID CONFLICTS. THE MECHANICAL, ELECTRICAL, AND PLUMBING ASPECTS ARE NOT IN THE SCOPE OF THESE DRAWINGS. THEREFORE, ALL REQUIRED MATERIALS AND WORK MAY NOT BE INDICATED.
2. COORDINATE EXACT SIZE & LOCATION OF ALL MECHANICAL OPENINGS IN FOUNDATION WALLS WITH THE MECHANICAL, ELECTRICAL & PLUMBING CONTRACTORS.
3. ALL ELEVATIONS ARE REFERENCED FROM THE FIRST FLOOR FINISH FLOOR ELEVATION +0.0' (U.S.G.S. XXXXX) REF. CIVIL DWGS.
4. REF. ARCH. DRAWINGS FOR ALL DIMENSIONS NOT SHOWN. CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION AND IMMEDIATELY NOTIFY ARCHITECT OF ANY DISCREPANCIES.
5. REF. S-481 FOR TYPICAL FOUNDATION & FRAMING DETAILS.
6. NOTE: PERIMETER WALL AND COLUMN FOOTINGS SHALL BE LOWERED AND/OR SLEEVED TO PASS BELOW PLUMBING LINES (E.G. SANITARY & STORM SEWERS, WATER LINES, ETC.) SHOWN ON THE PLUMBING DRAWINGS. PROVIDE FOOTING STEPS AS REQUIRED PER THE TYPICAL DETAILS (S-481).
7. COORDINATE REINFORCING DOVELS FOR CMU VERTICAL REINFORCING WITH REIN. NOTES ON PLANS & SECTIONS.
8. GROUT ALL CORES OF CMU BELOW FINISH FLOOR SOLID.
9. COLUMN FOOTINGS, TRENCH FOOTINGS AND WALL FOOTINGS SHALL BEAR ON APPROVED SOIL. UNDERCUT AS REQUIRED TO SUITABLE BEARING MATERIAL AS DETERMINED BY THE GEOTECHNICAL TESTING AGENCY. REF. TYPICAL FOOTING UNDERCUT DETAIL (S-481).
10. PROVIDE CONTROL CONTRACTION JOINTS IN SLABS ON GRADE REF. THE TYPICAL DETAILS (S-481). THE CONTRACTOR SHALL SUBMIT SLAB JOINT LAYOUT TO ARCHITECT/ENGINEER FOR REVIEW PRIOR TO PLACING SLABS.
11. PLAN LEGEND:

- 3/4" EXTERIOR GRADE PLYWOOD ROOF DECKING w/ SPACER CLIPS
- FF DENOTES FINISH FLOOR
- TRK DENOTES TOP OF FTG., GRADE BEAM, SLAB, PIER, ETC.
- C.J. DENOTES SLAB ON GRADE CONTROL CONTRACTION JOINT
- DENOTES WALL FOOTING WITH STEPS, REF. TYP. DETAIL ON S-481

SCHMIDT



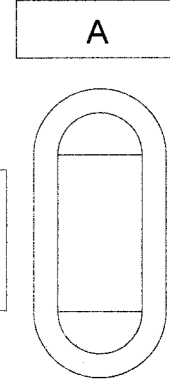
ASSOCIATES

415 Massachusetts Avenue
Indianapolis, Indiana 46204
www.schmidt-arch.comProject No. 2015-121 LCS
Project Date 04.18.2016
Produced JNB:VBH

Wesley B. Hamlin

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Revision Date

7300 E. 58th Street
Indianapolis, IN 46226

KEY PLAN

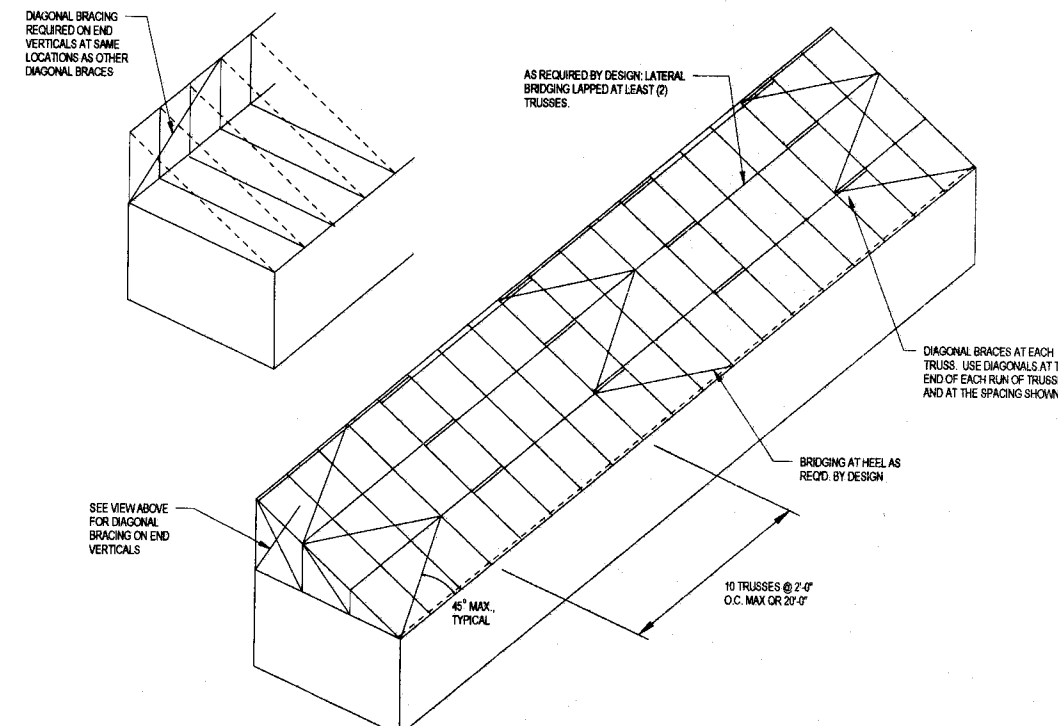
MSD OF
LAWRENCE
TOWNSHIPLC EXTERIOR
FACILITY
UPGRADES - BP2FOUNDATION AND
FRAMING PLAN -
BUILDING C (ALTERNATE)

SF1C1

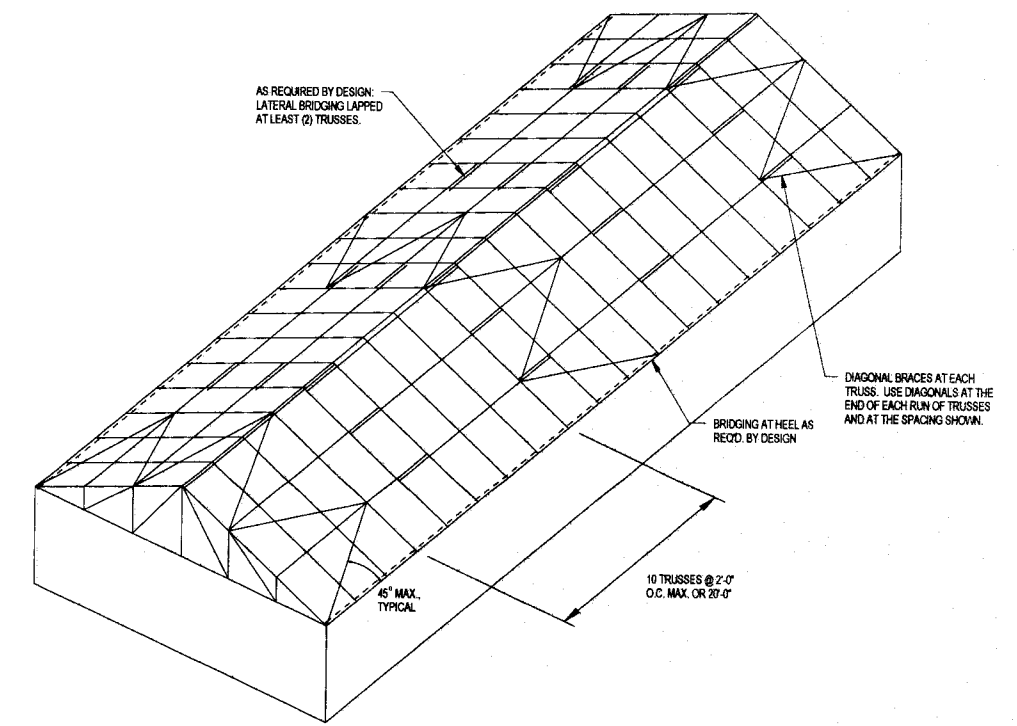
S-4C1

6 5 4 3 2 1

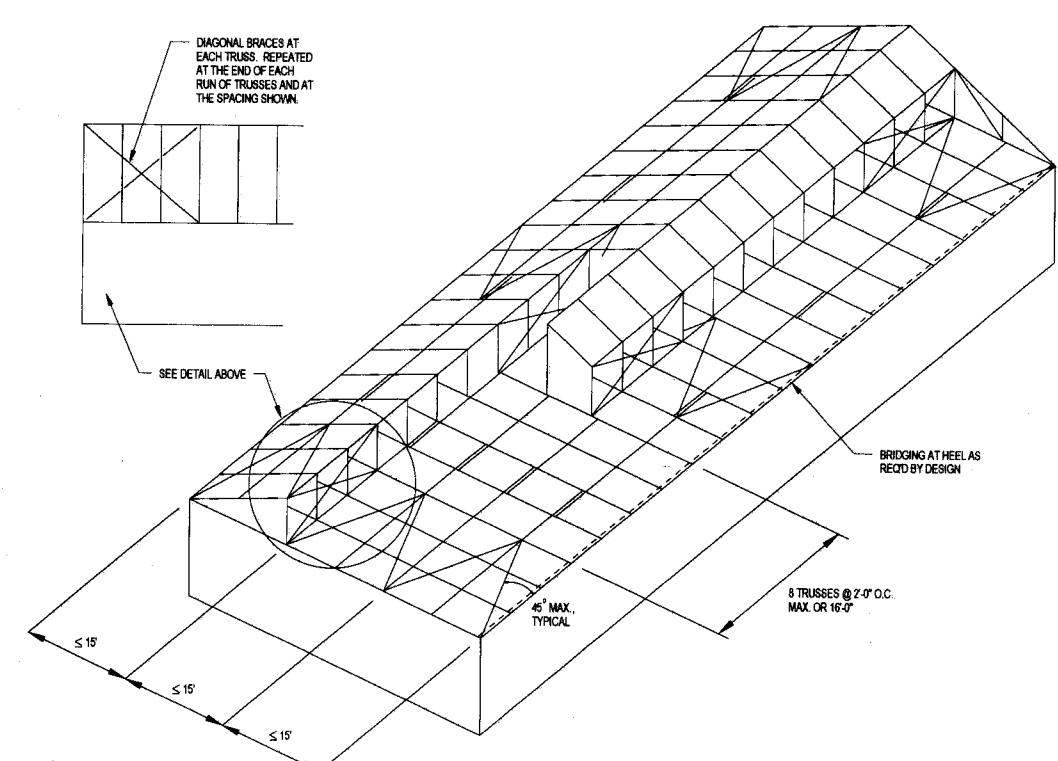
E
D
C
B
A



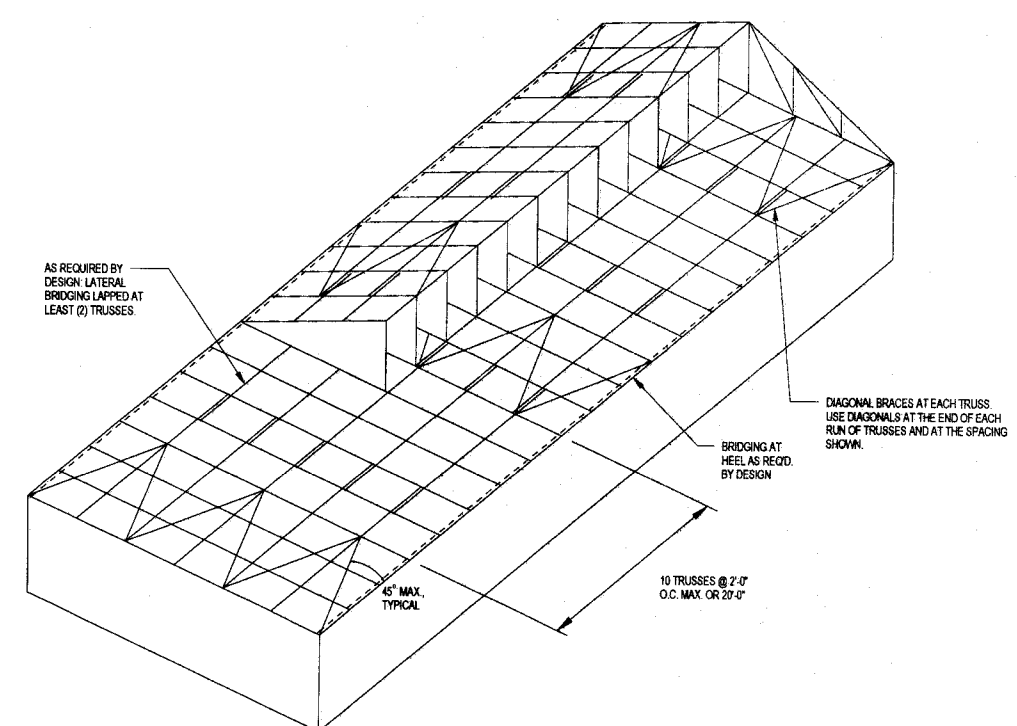
3 TOP CHORD BRACING FOR MONO-PITCH TRUSSES
3/4" = 1'-0"



2 TOP CHORD BRACING FOR GABLE TRUSSES
3/4" = 1'-0"



4 WEB MEMBER BRACING
3/4" = 1'-0"



1 BOTTOM CHORD BRACING
3/4" = 1'-0"

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Project No. 2015-121 LCS
Project Date 04.18.2016
Produced JNB WEBH

WESLEY B. HANCOCK
REGISTERED ARCHITECT
STATE OF INDIANA
PER0000410
Wesley B. Hancock

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#	Revision	Date

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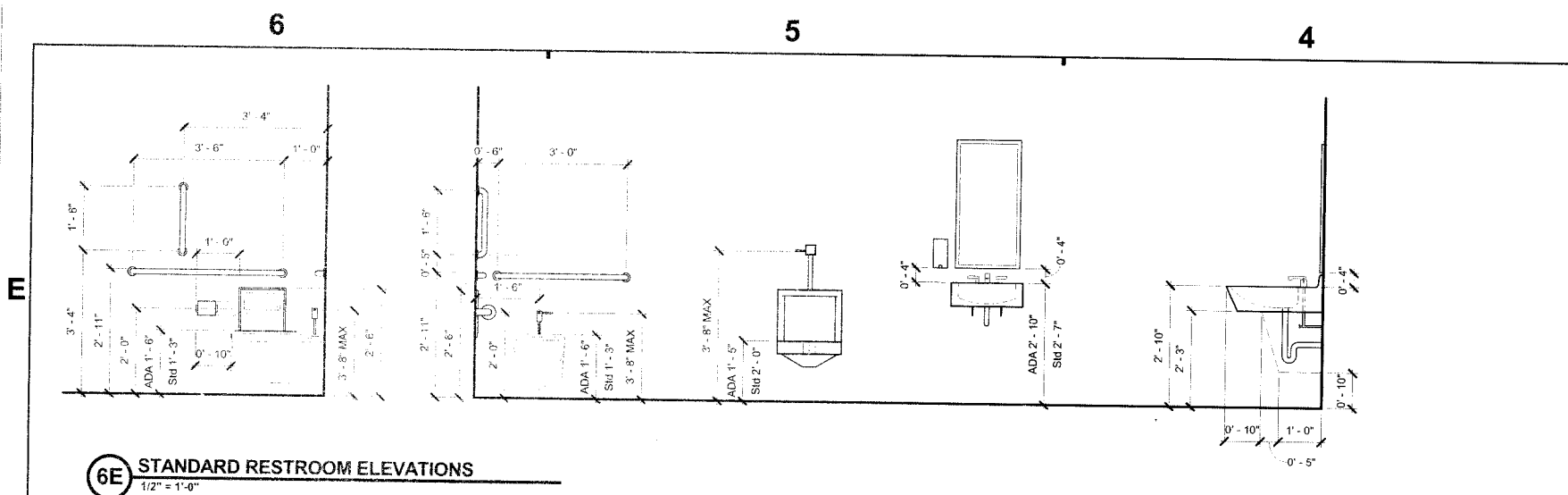
KEY PLAN

MSD OF LAWRENCE TOWNSHIP

LC EXTERIOR FACILITY UPGRADES - BP2

TYPICAL DETAILS
S-4C2

6 5 4 3 2 1



6E STANDARD RESTROOM ELEVATIONS
1/2" = 1'-0"

REFLECTED CEILING PLAN LEGEND	
GWB Drywall Grid System (09 22 16)	Light Fixture (Reference E-Series Dwg)
	Return Air (Reference M-Series Dwg)
	Supply Air (Reference M-Series Dwg)
	Exit Light (Reference E-Series Dwg)
Walls to Deck (Reference E-Series Dwg)	Recessed Light Fixture Suspended in Area with Exposed Ceiling (Reference E-Series Dwg)
	SOUND SYSTEM SPEAKER (REFERENCE E-SERIES/T-SERIES DWGS)

General Refl. Ceiling Plan Notes

- All ceilings are at 9'-6" AFF, unless noted otherwise.
- All exposed ductwork, piping, etc. shall be painted. Color selected by Architect.

5.4.120 - CEILING PLAN NOTES	
KEY	NOTE
1	CONTROL JOINT
2	ALUMINUM GUTTER, REFER TO ROOF DETAILS
3	16" X 16" ACCESS PANEL, COORDINATE LOCATION WITH VALVES

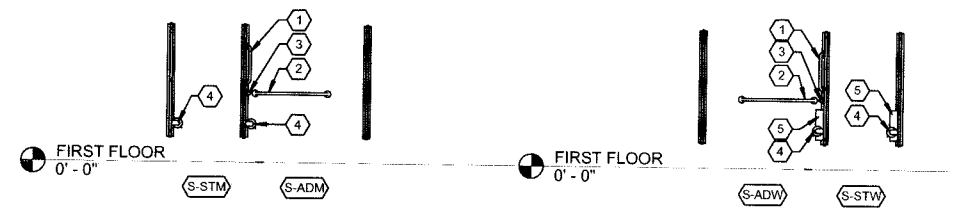
General Plan Notes

- All dimensions shown are to face of stud or masonry, unless noted otherwise. Dimensions designated as "CLR" or "clear" indicate a clear dimension from face of finish to face of finish. Dimensions of exterior walls are to outside edge of foundation.
- Dimensions for all coverings for Mechanical, Plumbing, Fire Protection and Electrical shall be fire stopped at each floor penetration.
- Provide bracing and blocking as required in walls supporting casework, lockboards, markerboards, and restroom accessories.
- All door frames are located 4" from adjacent wall, unless noted otherwise.
- All exposed outside corners of CMU shall be bullnosed.
- Seal all joints between dissimilar materials.
- All interior walls are Type "M/C" unless noted otherwise.
- Rise elevation is 0'-0" = 852.7' (United States Geological Survey data).
- Hatching within walls shown in plans and sections indicates new construction.

5.4.100 - FLOOR PLAN NOTES	
KEY	NOTE
1	EXTERIOR WALL ALTERNATE - PROVIDE SINGLE WYTHE AIR SPLIT FACE CMU IN LIEU OF EMB-B
2	STAINLESS STEEL COUNTER & WOOD SHELVING, REFER TO I-SERIES DRAWINGS FOR DETAILS
3	OWNER PROVIDED EQUIPMENT
4	DOWNSPOUT, REFER TO ROOF PLAN FOR GUTTER LAYOUT
5	MEP BASIN, REFER TO P-SERIES DRAWINGS FOR DETAILS

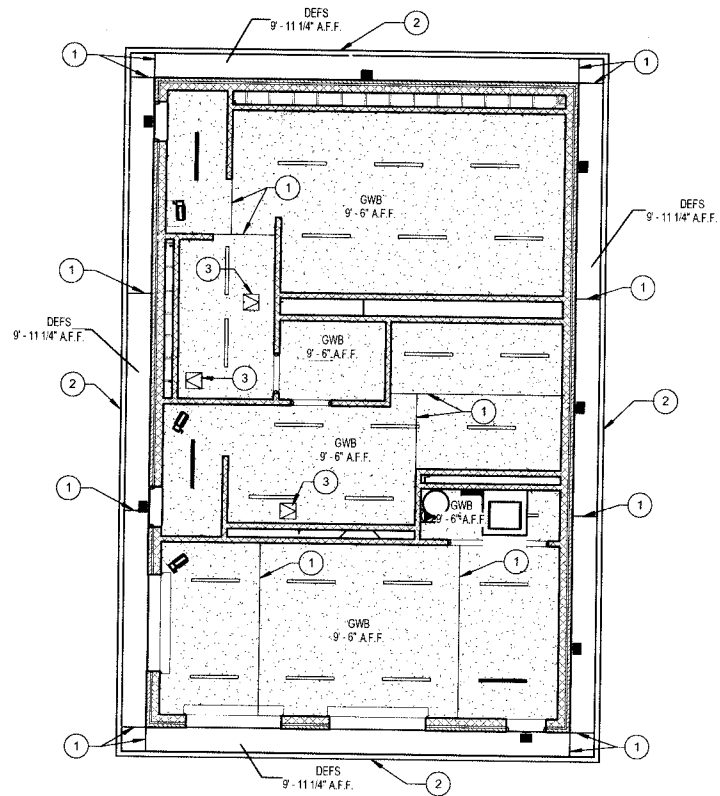
5.4.401 - RESTROOM ACCESSORY SCHEDULE					
Type Mark	Keynote	Description	Mounting	Furnished By	Installed By
1	10 28 00	GRAB BAR - 18" VERTICAL	BOTTOM @ 40" AFF	CONTRACTOR	CONTRACTOR
2	10 28 00	GRAB BAR - 36" HORIZONTAL	TOP @ 2'-11" AFF	CONTRACTOR	CONTRACTOR
3	10 28 00	GRAB BAR - 42" HORIZONTAL	TOP @ 2'-11" AFF	CONTRACTOR	CONTRACTOR
4	10 28 00	TOILET TISSUE DISPENSER - DOUBLE	BOTTOM @ 1'-6" AFF	OWNER	OWNER
5	10 28 00	SANITARY NAPKIN DISPOSAL - SURFACE	TOP @ 30" AFF	CONTRACTOR	CONTRACTOR
6	10 21 13	TOILET PARTITION	-	CONTRACTOR	CONTRACTOR
7	10 28 00	SOAP DISPENSER	BOTTOM @ 4" ABOVE FIXTURE	OWNER	OWNER
8	10 28 13	MIRROR - 24" X 36"	BOTTOM @ 4" ABOVE FIXTURE	CONTRACTOR	CONTRACTOR
9	10 28 00	HAND DRYER - STANDARD	BOTTOM @ 38" AFF	CONTRACTOR	CONTRACTOR
11	10 21 13	URINAL SCREEN	-	CONTRACTOR	CONTRACTOR
13	08 31 13	ACCESS DOOR - 16" X 16"	BOTTOM @ 40" AFF	CONTRACTOR	CONTRACTOR

5.4.402 - RESTROOM STALL TYPES	
Toilet Stall Mark	Description
S-ADM	ADA - MENS' STALL
S-ADW	ADA - WOMENS' STALL
S-STM	STANDARD - MENS' STALL
S-STW	STANDARD - WOMENS' STALL

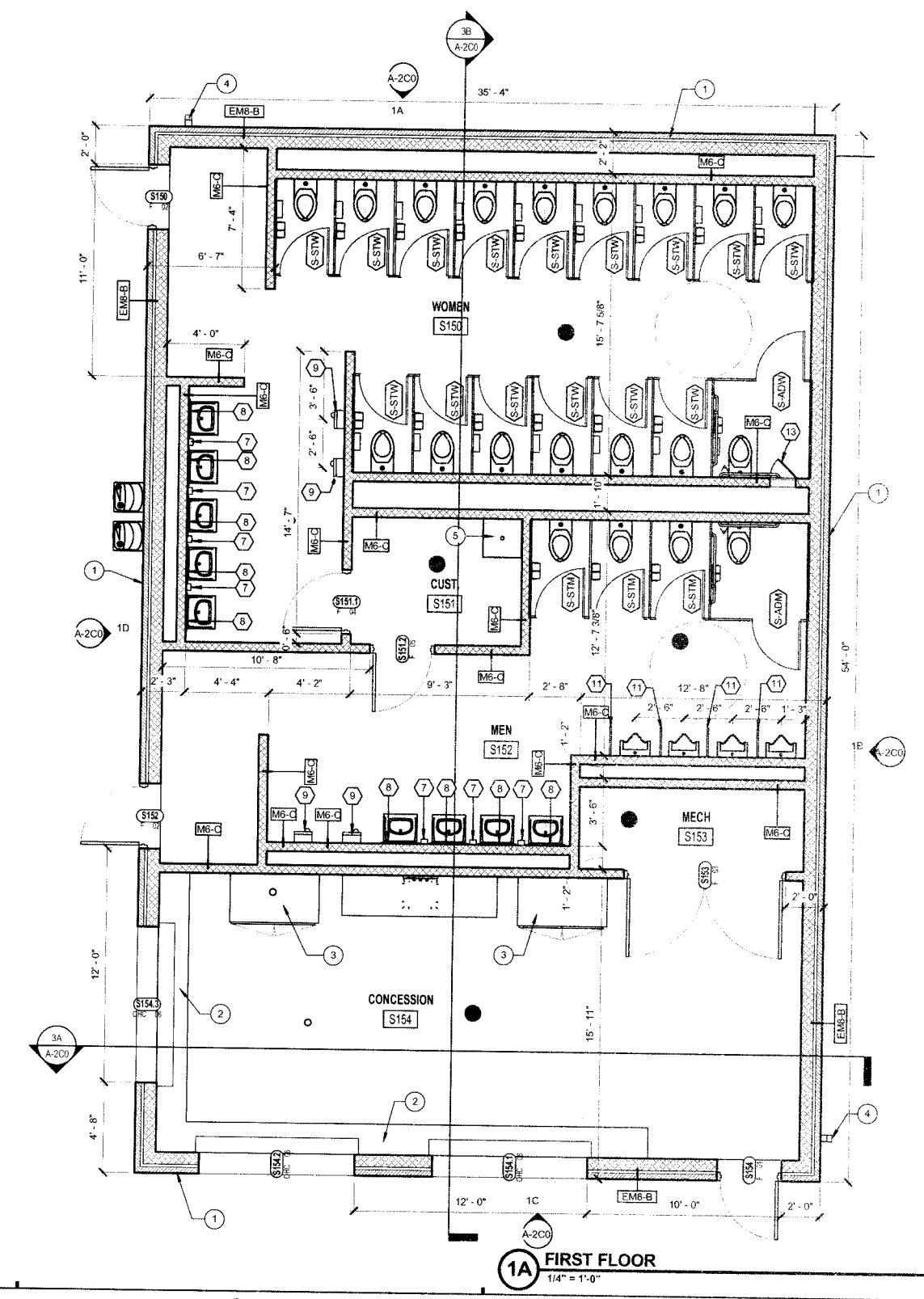


4B MENS RESTROOM STALL TYPES
1/4" = 1'-0"

3B WOMENS RESTROOM STALL TYPES
1/4" = 1'-0"



4A FIRST FLOOR REFLECTED CEILING PLAN
1/8" = 1'-0"



1A FIRST FLOOR
1/4" = 1'-0"

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Project No. 2015-121 LCS
Project Date 04.18.2016
Produced BGB

STATE OF INDIANA
ARCHITECT
NO. 32631
W. Schmidt

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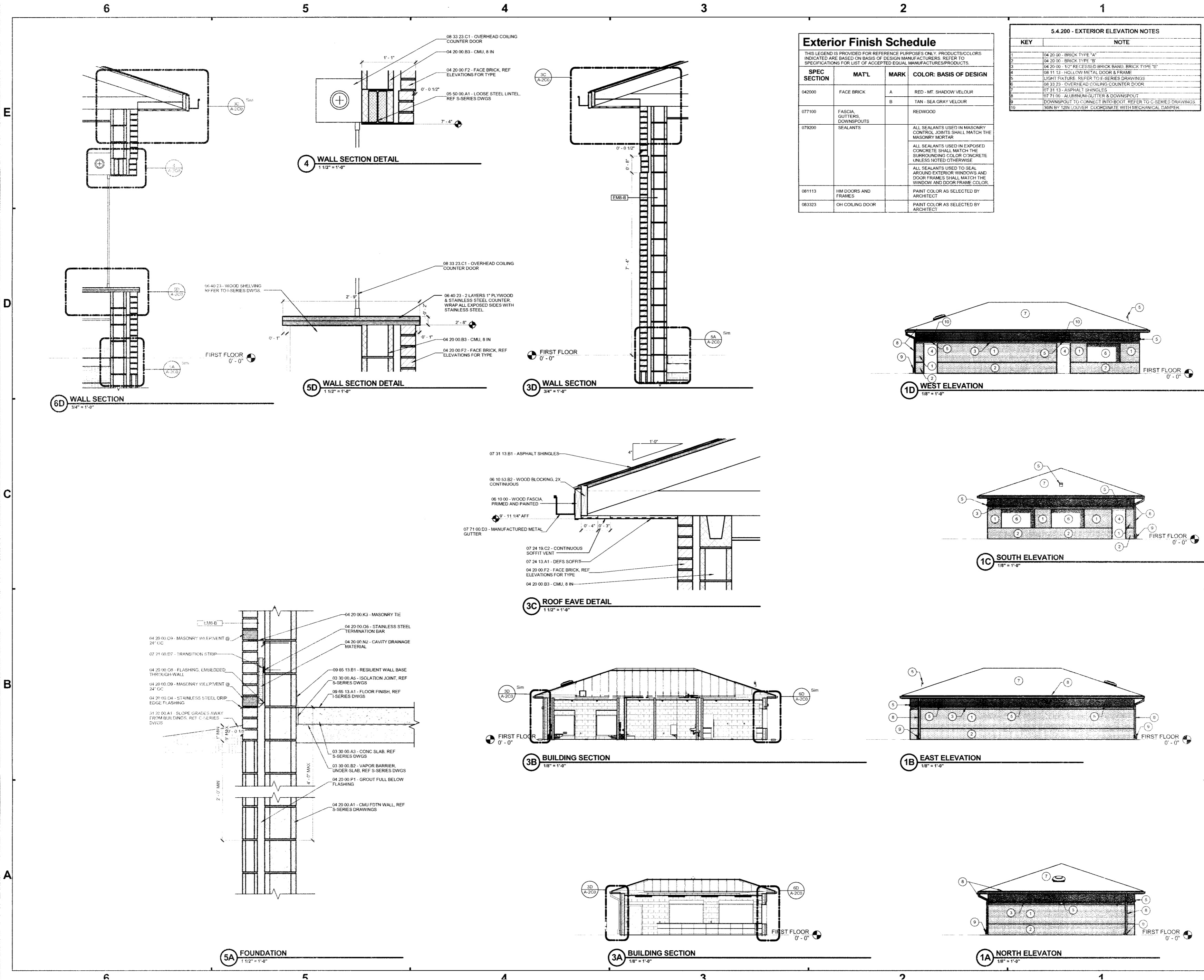
A
B
C
D

KEY PLAN

MSD OF LAWRENCE TOWNSHIP

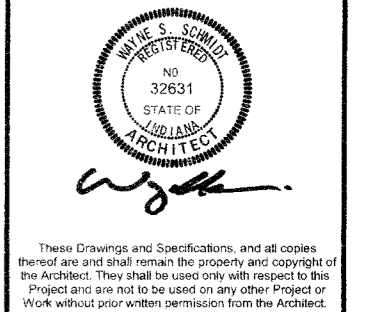
LC EXTERIOR FACILITY UPGRADES - BP2

FIRST FLOOR PLAN - UNIT C (ALTERNATE)
AF1C1

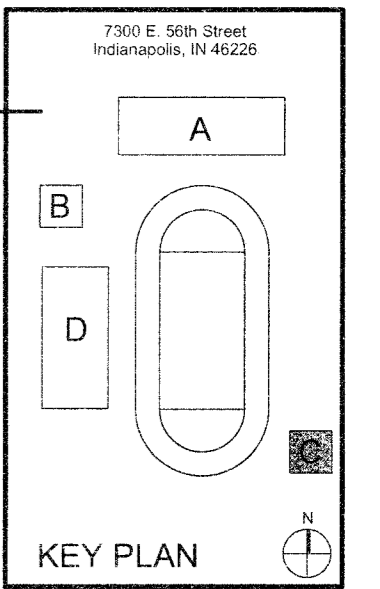


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#	Revision	Date



MSD OF
LAWRENCE
TOWNSHIP
LC EXTERIOR
FACILITY
UPGRADES - BP2

ELEVATIONS & SECTIONS
(ALTERNATE)
A-2C0

6

5

4

3

2

1

INTERIOR FINISH LEGEND

MARK	DESCRIPTION	MANUFACTURER	PATTERN/STYLE	COLOR	SPECIFICATION	COMMENTS
CFC-1	CONCRETE FLOOR COATING				09 96 00 99	
CPY-1	CARPET TILE	J&J FLOORING GROUP	KINETEX / VELOCITY 1814	MOVE 1608	09 68 13	QUARTER-TURN INSTALLATION
GR-1	GROUT			TO BE SELECTED FROM MFR'S STANDARD COLORS	09 30 00	
HP-1	HIGH PERFORMANCE PAINT	SHERWIN WILLIAMS		SKYLINE STEEL SW1015	09 91 23	
HP-2	HIGH PERFORMANCE PAINT	SHERWIN WILLIAMS		EGRET WHITE SW7570	09 91 23	PAINTE COLOR FOR PAINTED EXPOSED CEILING / STRUCTURE
HP-3	HIGH PERFORMANCE PAINT	SHERWIN WILLIAMS		IRON ORE SW 7069	09 91 23	
MWC-1	MARKER WALLCOVERING	VITRULAN	GNCH MAGNETIC WALLCOVERING	SMOOTH M-22	09 72 00	
MWP-1	MARKER WALL PAINT	VITRULAN	SCRIBBL DRY-ERASE PAINT	CLEAR	09 72 00	
PFT-1	PORCELAIN FLOOR TILE	DALTILE	VOLUME 1.0	INTENSITY PEBBLE VL72	09 30 00	SIZE: 12"x24", 1/2 BRICK INSTALLATION
PFTB-1	PORCELAIN FLOOR TILE BASE	DALTILE	VOLUME 1.0	INTENSITY PEBBLE VL72	09 30 00	SIZE: 6"x12", COVE
PL-1	PLASTIC LAMINATE	FORMICA	MATTE COLLECTION	EBONY OXIDE 298-58	12 32 00	
PL-2	PLASTIC LAMINATE	FORMICA	MATTE COLLECTION	CITADEL WARP 5882-58	12 32 00	
RSF-1	RESINOUS FLOORING	GENERAL POLYMERS	CERAMIC CARPET	CHARCOAL 332	09 67 23	
UPH-1	UPHOLSTERY	PALLAS	HOLY COW	THUNDERSTORM	12 32 00	
VWB-1	VINYL WALL BASE	JOHNSONITE	BURNED LUMBER 63	SILVER FAN	10 22 26	
VWC-1	VINYL WALLCOVERING (OPERABLE PARTITIONS)	KASHI				
WOC-1	WALK-OFF CARPET	TANGUS	ASSERTIVE ACTION 04837	STEELWORK 26202	09 68 13	

INTERIORS GENERAL NOTES

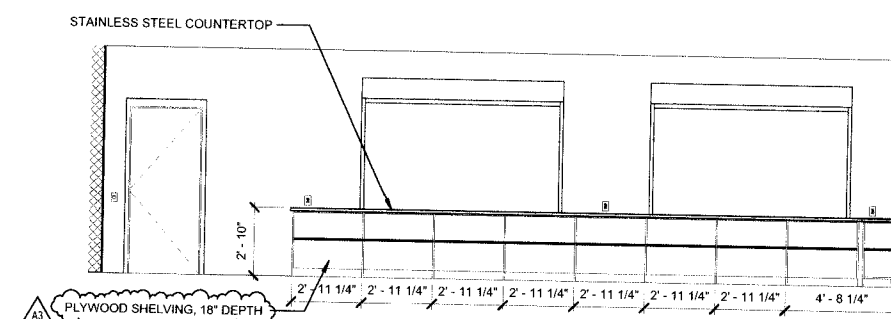
- REFERENCE A-001 FOR GENERAL PLAN NOTES. ALL NOTES MAY NOT APPLY TO THIS SHEET.
- FURNITURE IS NOT PROVIDED IN THIS CONTRACT. LAYOUTS AND FINAL DESIGN WILL NEED TO BE DETERMINED BY THE OWNER.
 - REFERENCE ARCHITECTURAL CEILING PLANS FOR CEILING HEIGHTS AND BULKHEAD COLOR DESIGNATIONS. PAINT ALL BULKHEADS HP-1 UNLESS SPECIFICALLY NOTED OTHERWISE. BULKHEADS THAT ARE FLUSH WITH WALLS PROVIDE COLOR TO MATCH ADJACENT WALL COLOR.
 - PAINT INTERIOR HOLLOW METAL DOORS HP-1.
 - PAINT INTERIOR HOLLOW METAL DOOR FRAMES HP-3.
 - PAINT EXTERIOR HOLLOW METAL DOORS AND FRAMES HP-1.
 - PAINT GENERAL WALLS P-1 (NEUTRAL) UNLESS SPECIFICALLY NOTED OTHERWISE.
 - APPLIANCES AND VENDING EQUIPMENT ARE NOT PROVIDED IN THIS CONTRACT.
 - PAINT ALL EXPOSED STRUCTURE, DUCTWORK, PIPING ETC. HP-2.

INTERIORS LEGEND

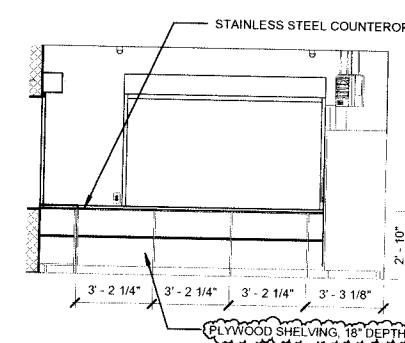
GENERAL
ETR EXISTING TO REMAIN
NIC NOT IN CONTRACT
FFE FURNITURE, FIXTURES & EQUIPMENT

INTERIOR KEY NOTES

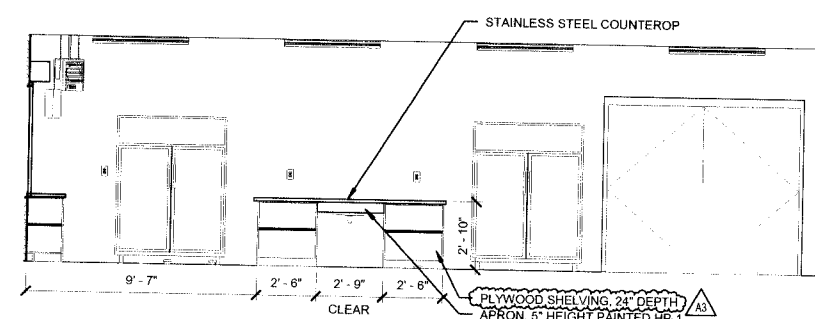
KEY	NOTE
1	NOT USED.



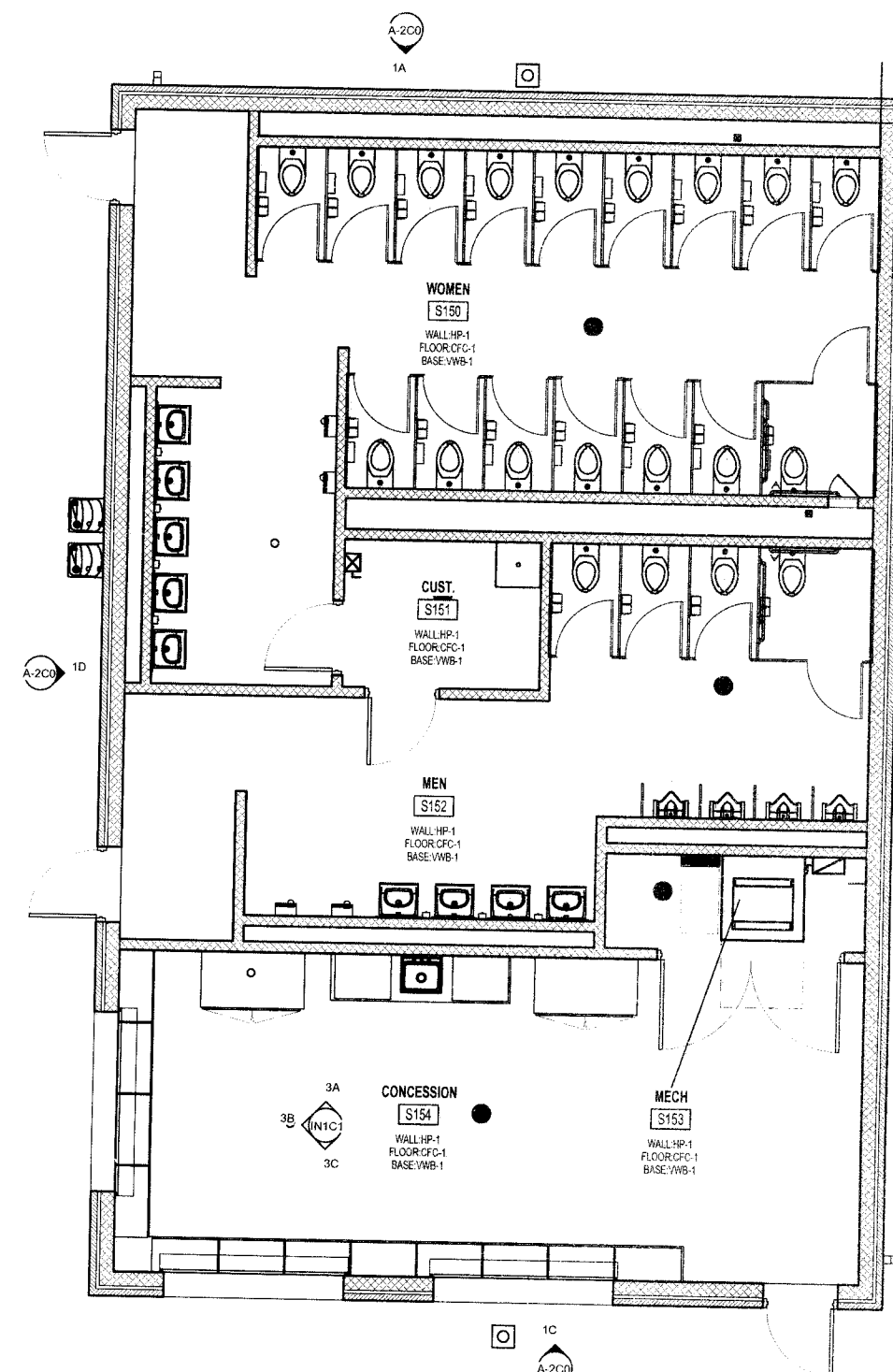
3C CONCESSIONS SOUTH ELEVATION
1/4" = 1'-0"



3B CONCESSIONS WEST ELEVATION
1/4" = 1'-0"



3A CONCESSIONS NORTH ELEVATION
1/4" = 1'-0"



1A FIRST FLOOR INTERIOR PLAN
1/4" = 1'-0"

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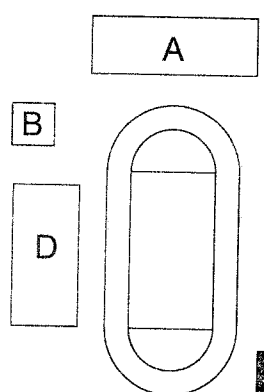
Project No. 2015-121 LCS
Project Date 04.18.2016
Produced Designer AEC



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#	Revision	Date
A3	Addendum #3	05.12.2016

7300 E. 56th Street
Indianapolis, IN 46226



KEY PLAN

MSD OF
LAWRENCE
TOWNSHIP



LC EXTERIOR
FACILITY
UPGRADES - BP2

FIRST FLOOR INTERIOR
PLAN - UNIT C
(ALTERNATE)

IN1C1

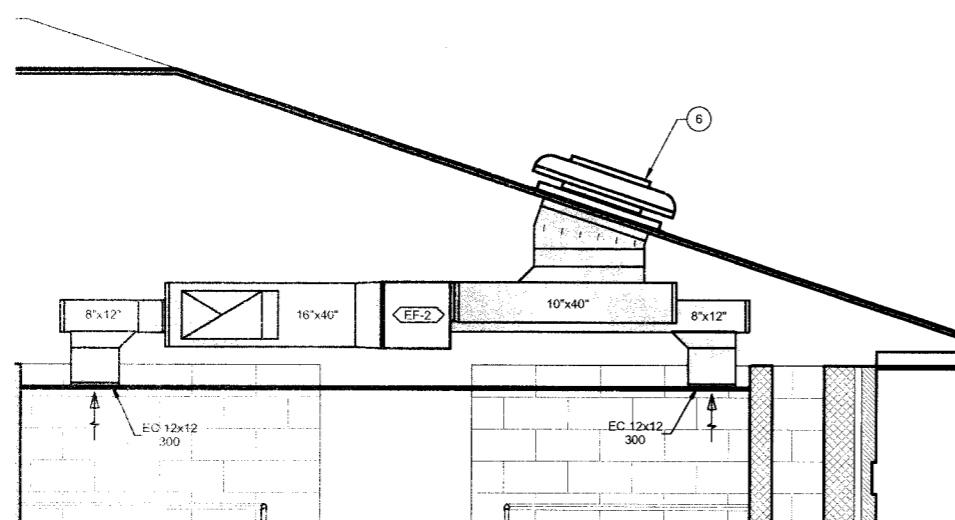
EXHAUST FAN SCHEDULE															NOTES
IDENTITY DATA				FAN DATA				NOISE CRITERIA			ELECTRICAL DATA				
MARK	MANUFACTURER	MODEL	SERVES	EXHAUST AIRFLOW (CFM)	ESP (IN-WG)	RPM	SONES	DBA	HP	BHP	VOLTS (V)	PHASE	DISCONNECT PROVIDER	UNIT CONTROL	
EF-2	LOREN COOK COMPANY	GN2000	MENS RR RMT02 & WOMENS RR RMT01	2.125	0.3	861	6.6	55	1	0.371	208	3	ELECTRICAL PYNACORP	FAN SPEED CONTROL	

233713 DIFFUSERS, REGISTERS, AND GRILLES									
IDENTITY DATA				NECK SIZE (IN)	MODULE SIZE			MATERIAL	NOTES
MARK	DESCRIPTION	MANUFACTURER	MODEL	Ø	W	L			
EC 646	EGG GRATE FACE RETURN		80 SERIES	0"	8"	8"	ALUMINUM		
EC 1263	EGG CRATE FACE RETURN		PRICE 80 SERIES	Ø	12"	12"			

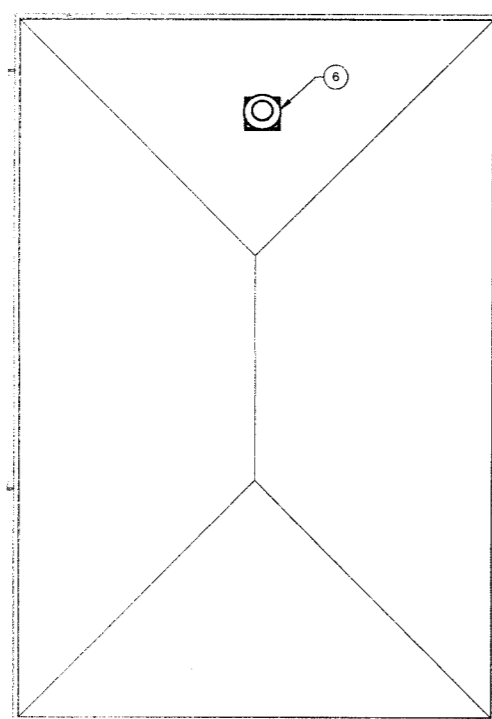
238239 ELECTRIC PROP UNIT HEATER SCHEDULE														
IDENTITY DATA					HEATING DATA				FAN DATA		ELECTRICAL		CONTROL	NOTES
MARK	MANUFACTURER	MODEL	WEIGHT (LBS)	LOCATION	CAPACITY (W)	STEPS	EAT (F)	AIRFLOW (CFM)	FAN DRIVE	VOLTS (V)	PHASE 3			
PUH-4	MARLEY ENGINEERED PRODUCTS	MUH078	38.00	CONCESSION RM144	7500	1	60	97	650	DIRECT	208	3	WALL MOUNTED	
PUH-5	MARLEY ENGINEERED PRODUCTS	MUH078	38.00	CONCESSION RM144	7500	1	60	97	650	DIRECT	208	3	WALL MOUNTED	
PUH-6	MARLEY ENGINEERED PRODUCTS	MUH078	38.00	WOMENS RR RM140	7500	1	60	97	650	DIRECT	208	3	WALL MOUNTED	

DUCT ACCESSORY - CONTROL DAMPERS				
MARK	SIZE	MANUFACTURER	MODEL	TYPE
CD-2	36"x12"	RUSKIN	CD40X2	STANDARD

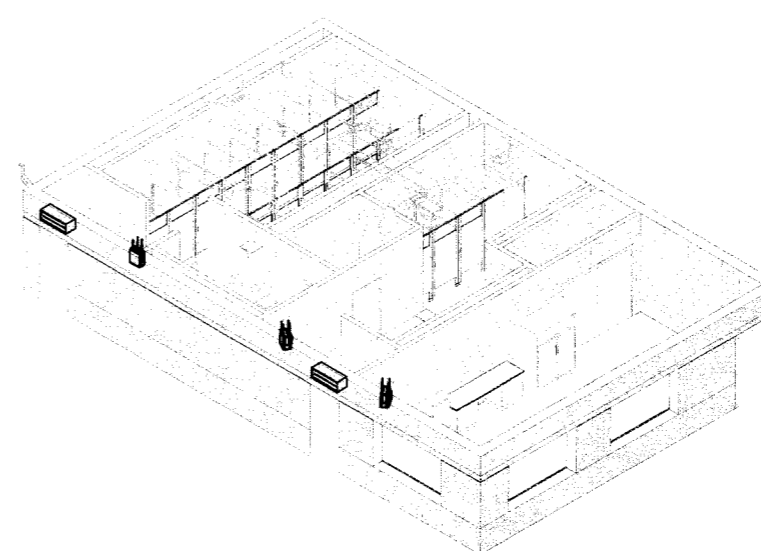
MECHANICAL HVAC PLAN NOTES	
#	NOTE
1	INLINE EXHAUST FAN. SEE SCHEDULE ON SHEET M-1B1
2	TYPICAL EGGRATE EXHAUST AIR GRILLE. SEE SCHEDULE ON SHEET M-1B1
3	ELECTRIC PROP/UNIT HEATER. SEE SCHEDULE ON SHEET M-1B1
4	MAKE UP AIR LOUVER BY ARCHITECT.
5	PROVIDE 36" X 12" MOTORIZED CONTROL DAMPER, MOUNT TO LOUVER SHOWN ON DETAIL 1A.MS01.
6	PROVIDE ROOF CAP LUE LOREN COOK MODEL PR20F. MOUNT DIRECTLY TO ROOF WITH WATERTIGHT FLASHING. NOT TO BE SUBMITTAL.



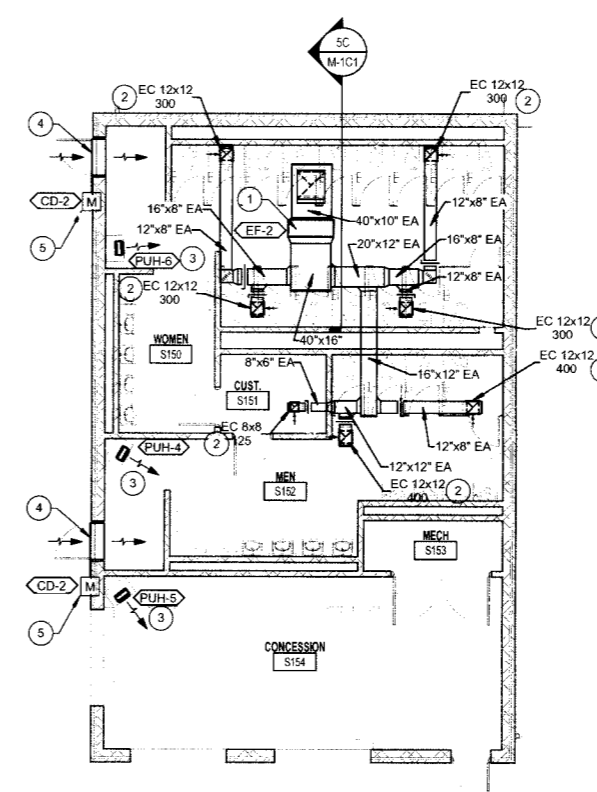
5C ROOF EXHAUST SECTION
1/2" = 1'-0"



5A MECHANICAL HVAC ROOF PLAN
1/8" = 1'-0"



2C ISOMETRIC PLAN



2A FIRST FLOOR HVAC PLAN

SCHMIDT



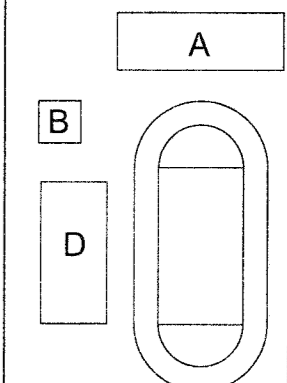
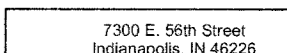
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Project Date 04.18.2016
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#	Revision	Date
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KEY PLAN

MSD OF
LAWRENCE
TOWNSHIP

LC EXTERIOR
FACILITY
UPGRADES - BP2

CONCESSION BUILDING
MECHANICAL - UNIT C
(ALTERNATE)

M-1C1

6

5

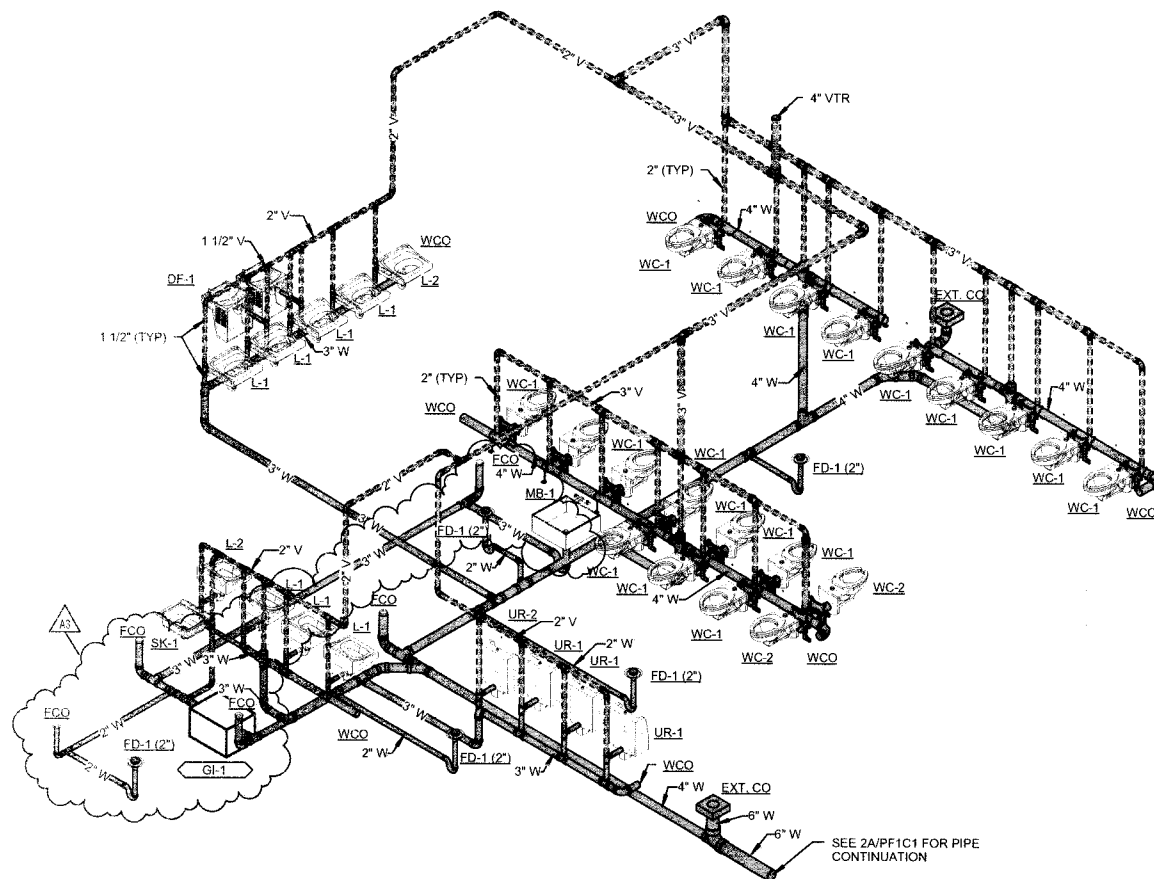
4

3

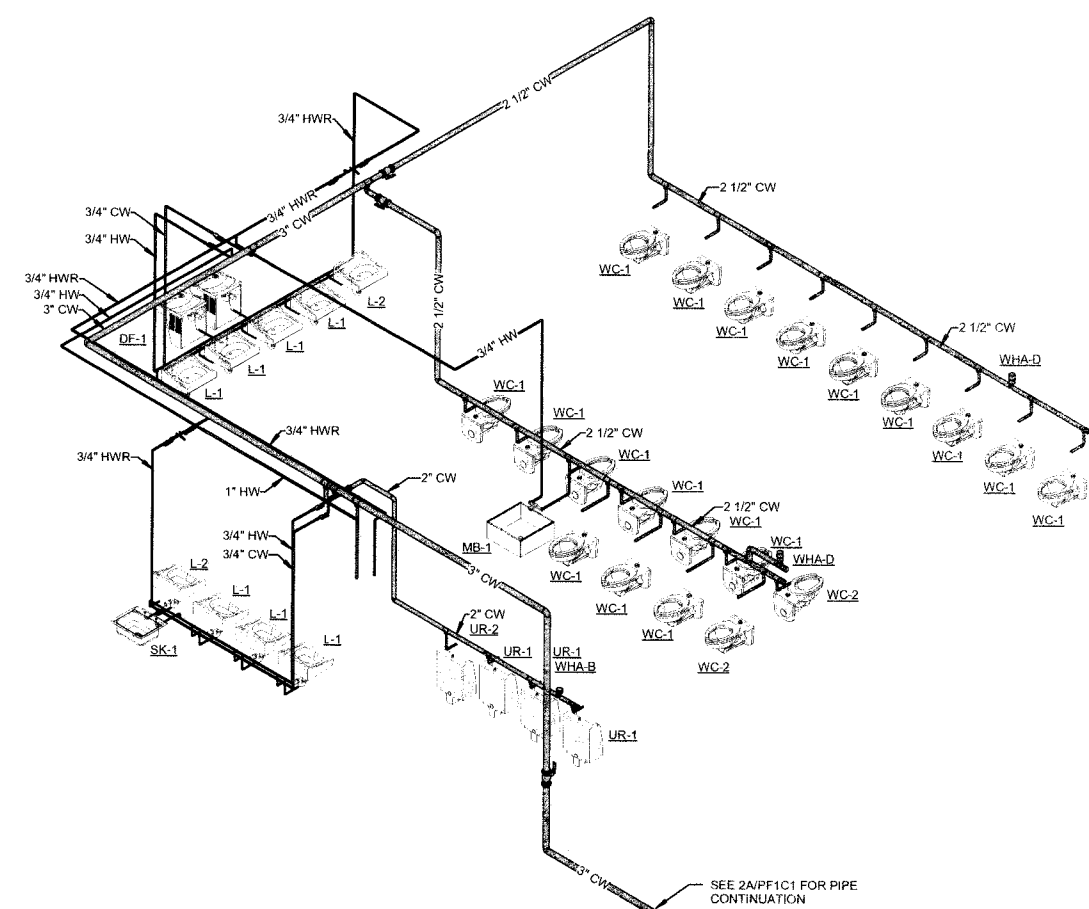
2

1

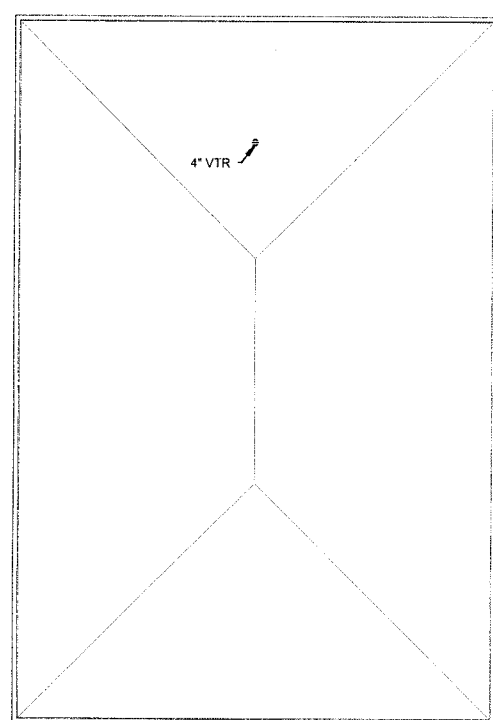
IDENTITY DATA						PLUMBING EQUIPMENT SCHEDULE						ELECTRICAL DATA						NOTES
MARK	MANUFACTURER	MODEL	DESCRIPTION	LOCATION	CAPACITY	VOLTAGE (V)	PHASE	FLA	RPM	HP								
GI-1	ZURN	#G270-25	GREASE INTERCEPTOR	CONCESSION S/S	25 GPM FLOW RATE, 50 LBS GREASE CAPACITY													FLOW CONTROL INLET FITTING



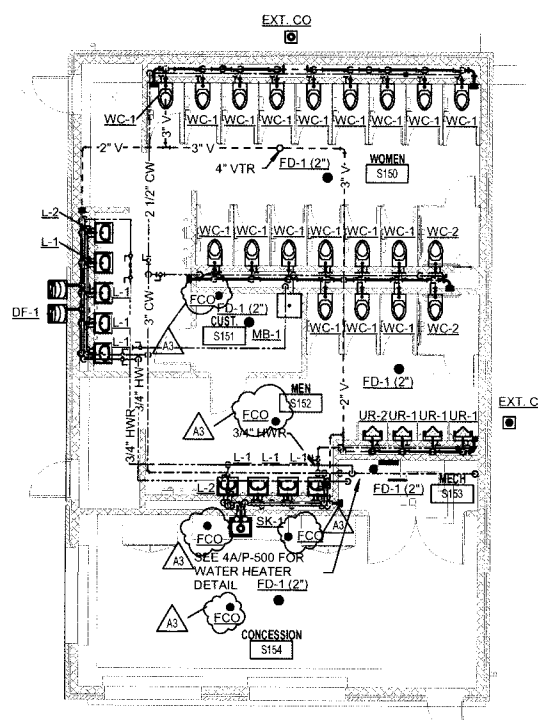
5C OVERALL WASTE AND VENT ISOMETRIC
NOT TO SCALE



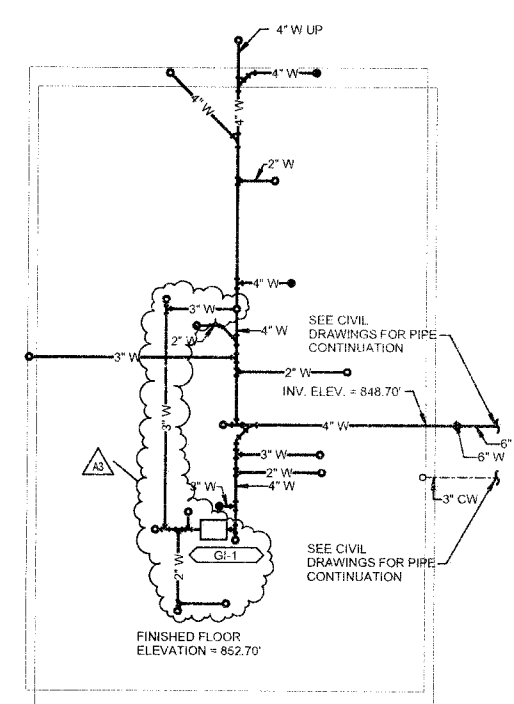
3C OVERALL DOMESTIC WATER ISOMETRIC
NOT TO SCALE



5A ROOF PLUMBING PLAN - UNIT C
1/8" = 1'-0"



3A FIRST FLOOR PLUMBING PLAN - UNIT C
1/8" = 1'-0"



2A FOUNDATION PLUMBING PLAN - UNIT C
1/8" = 1'-0"

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Project No. 2015-121 LCS
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#	Revision	Date
A2	ADDENDUM NO. 2	05.06.2016
A3	ADDENDUM NO. 3	05.12.2016

7300 E. 56th Street
Indianapolis, IN 46226

A

B

D

B

KEY PLAN

MSD OF
LAWRENCE
TOWNSHIP



LC EXTERIOR
FACILITY
UPGRADES - BP2

FOUNDATION, FIRST FLR,
ROOF, AND ISOMETRIC
PLBING PLANS - UNIT C
(ALTERNATE)
PF1C1

6

5

4

3

2

1

GENERAL POWER NOTES

#	NOTES
A	REFER TO SHEET E-001 FOR ADDITIONAL INFORMATION
#	POWER PLAN NOTES
1	CIRCUIT CONNECTION FOR HAND DRYER. COORDINATE MOUNTING HEIGHT WITH A-SERIES DRAWINGS.
2	INSTALL ALL RECEPTACLES AT 48" A.F.F. TO G.L. IN THIS ROOM AREA.

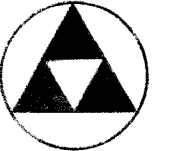
PANELBOARD SCHEDULE

DESIGNATION: 12C1										MAINS RATING: 400 A												
LOCATION: MECH S153										MAINS TYPE: MCB												
MOUNTING: SURFACE										MCB RATING: 300 A												
SUPPLY FROM: T-C1										AIC RATING: 10,000 A												
PHASES: 3										AIC RATING: 10,000 A												
CKT NO.	CIRCUIT ROOM #	CIRCUIT TYPE	TRIP	POLES	A	B	C	POLES	TRIP	CIRCUIT TYPE	CIRCUIT ROOM #	CKT NO.	CIRCUIT ROOM #	CIRCUIT TYPE	TRIP	POLES	A	B	C	POLES	TRIP	
1	S154, S153, S152, S151, S150	LIGHTING	20 A	1	1.27	0.58						2	20 A	LIGHTING	20 A	1	1.27	0.58				2
3	S154	RECEPT	20 A	1		1.00	0.54					4	20 A	RECEPT	20 A	1		1.00	0.54			4
5	S154	RECEPT	20 A	1				1.00	0.90			6	20 A	RECEPT	20 A	1			1.00	0.90		6
7	S154	RECEPT	20 A	1	1.00	1.20						8	20 A	HAND DRY	20 A	1						8
9	S154	RECEPT	20 A	1		1.00	1.20					10	20 A	HAND DRY	20 A	1						10
11	S154	RECEPT	20 A	1				1.00	1.20			12	20 A	HAND DRY	20 A	1						12
13	S154	RECEPT	20 A	1	0.18	1.20						14	20 A	HAND DRY	20 A	1						14
15	S154	RECEPT	20 A	1		0.18	0.58					16	20 A	EF	20 A	1						16
17	S154	RECEPT	20 A	1				0.18	0.58			18	20 A	EF	20 A	1						18
19	S154	RECEPT	20 A	1	0.18	0.58						20	20 A	PUH	20 A	1						20
21	S154	RECEPT	20 A	1		0.18	3.13					22	20 A	PUH	20 A	1						22
23	S154	RECEPT	20 A	1				1.00	3.13			24	20 A	PUH	20 A	1						24
25	S154	RECEPT	20 A	1	1.00	3.13						26	20 A	PUH	20 A	1						26
27	SPARE						0.00	3.13				28	20 A	PUH	20 A	1						28
29	S153	DRY PUMP	20 A	1				0.53	3.13			30	20 A	PUH	20 A	1						30
31	12C2	PUL	100 A	3	2.00	3.13						32	20 A	PUH	20 A	1						32
33						2.00	3.13					34	20 A	PUH	20 A	1						34
35								2.00	3.13			36	20 A	PUH	20 A	1						36
37	FB SCOREBOARD	SCRBD	60 A	3	3.60	3.13						38	20 A	PUH	20 A	1						38
39						3.60	0.00					40	20 A	SPARE	20 A	1						40
41								3.60	0.00			42	20 A	SPARE	20 A	1						42
43	S153	WTR HTR	40 A	3	3.38	0.00						44	20 A	SPARE	20 A	1						44
45						3.38	0.00					46	20 A	SPARE	20 A	1						46
47								3.38	0.00			48	20 A	SPARE	20 A	1						48
49	SPARE		20 A	1	0.00	0.00						50	20 A	SPARE	20 A	1						50
51	SPARE		20 A	1		0.00	0.00					52	20 A	SPARE	20 A	1						52
53	SPARE		20 A	1		0.00	0.00					54	20 A	SPARE	20 A	1						54
TOTAL LOAD:					25.51 kVA					23.02 kVA					24.73 kVA							
TOTAL AMPS:					215 A					192 A					208 A							
TOTAL CONNECTED LOAD:					73.28 kVA																	
TOTAL CONNECTED AMPS:					215 A																	
NOTES: 1. MODIFY AIC AS REQUIRED PER SPECIFICATION SECTION 260574.00.																						

GENERAL LIGHTING NOTES

#	NOTES
A	REFER TO SHEET E-001 FOR ADDITIONAL INFORMATION
#	LIGHTING PLAN NOTES
1	LIGHT FIXTURE MOUNTED TO ROOF. COORDINATE ALL MOUNTING REQUIREMENTS PRIOR TO INSTALLATION. FIELD ADJUST LIGHT FIXTURE FOR MAXIMUM COVERAGE OF SITE.
2	LIGHT FIXTURE CONTROLLED BY LIGHTING CONTACTOR L.C.1.
3	INSTALL LIGHT FIXTURE IN BRICK BAND AROUND BUILDING. REFER TO A-SERIES DRAWINGS FOR MOUNTING HEIGHT.

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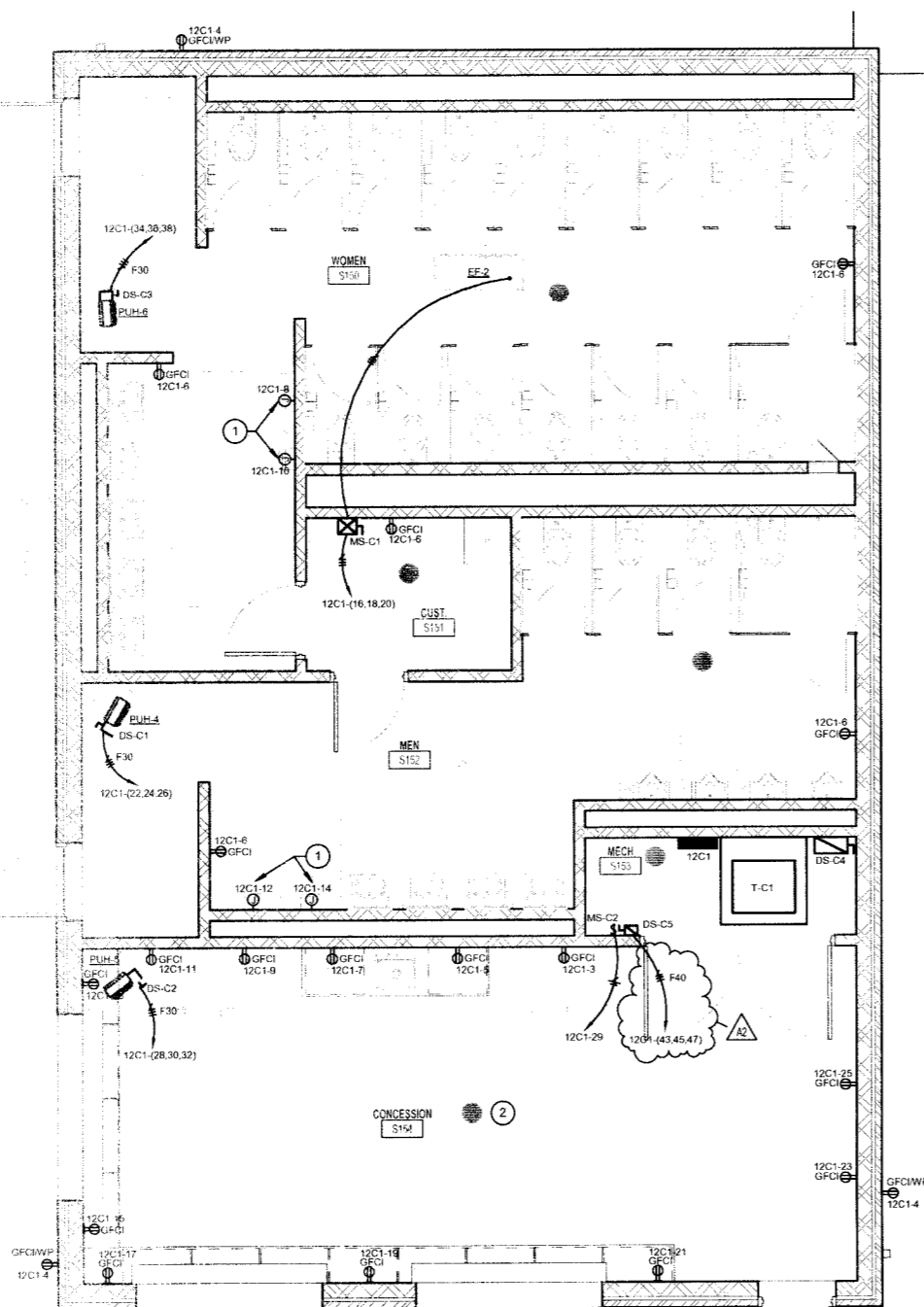
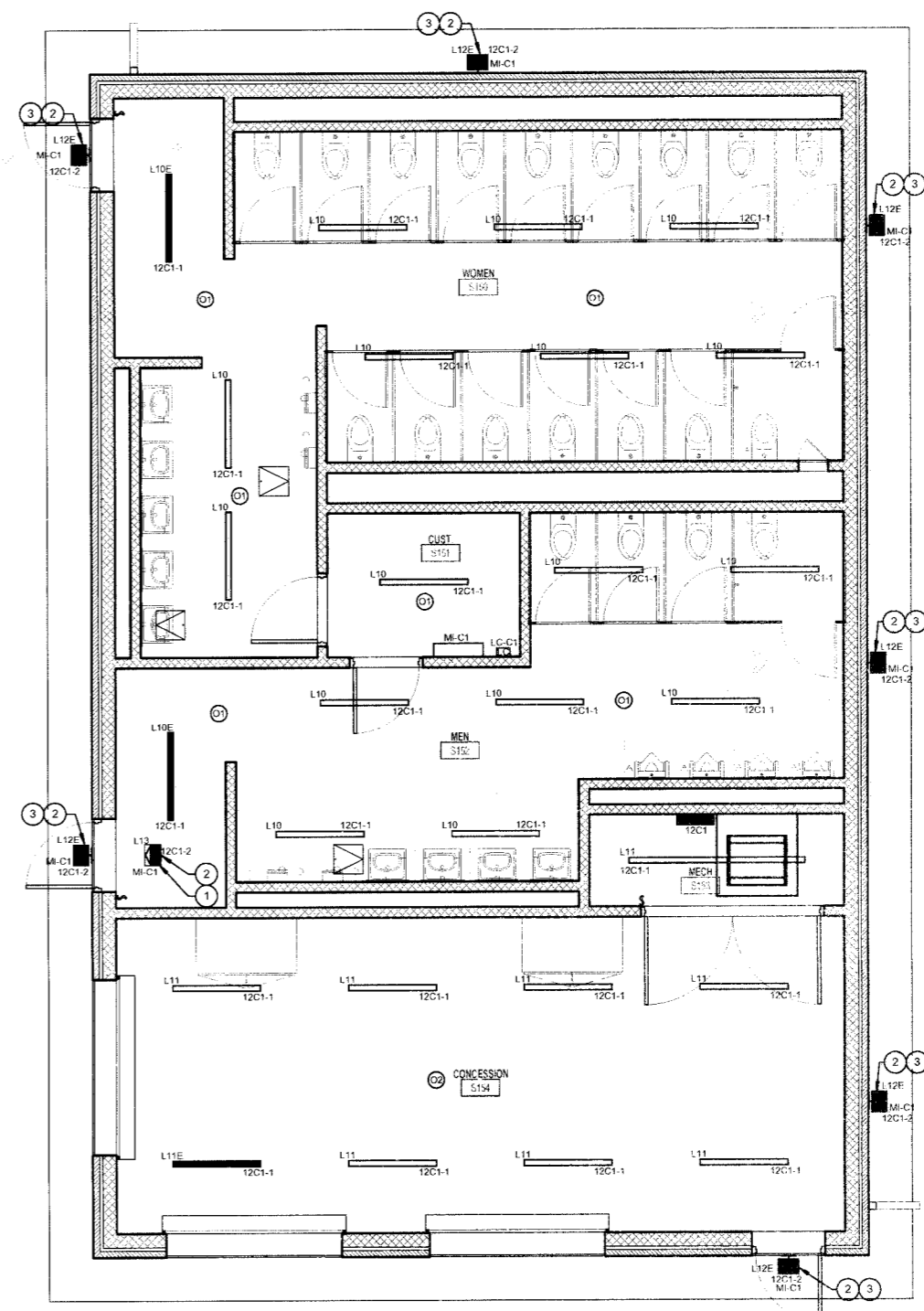
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Project No. 2015-121 LCS
Project Date 04.18.2016
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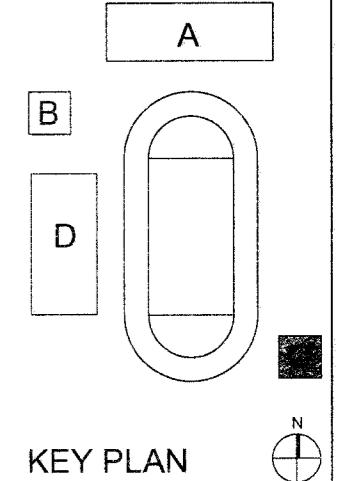


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#	Revision	Date
A2	ADDENDUM NO. 2	05.06.2016

3A FIRST FLOOR POWER PLAN
1/4" = 1'-0"2A FIRST FLOOR LIGHTING PLAN
1/4" = 1'-0"

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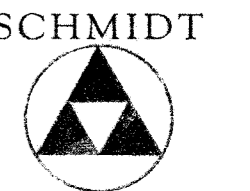
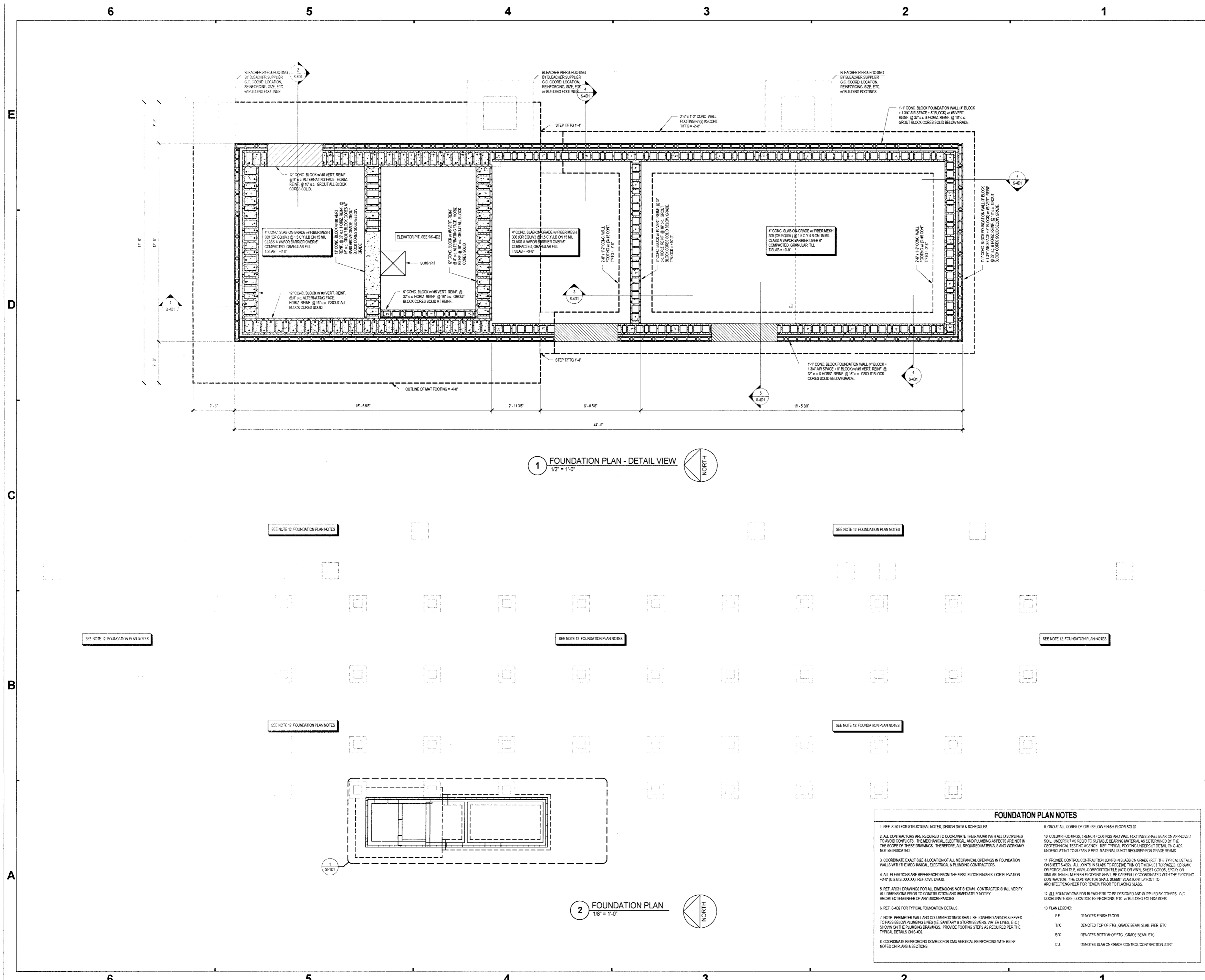
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TOWNSHIP



LC EXTERIOR
FACILITY
UPGRADES - BP2

LIGHTING & POWER
PLANS - UNIT C
(ALTERNATE)

EL1C1



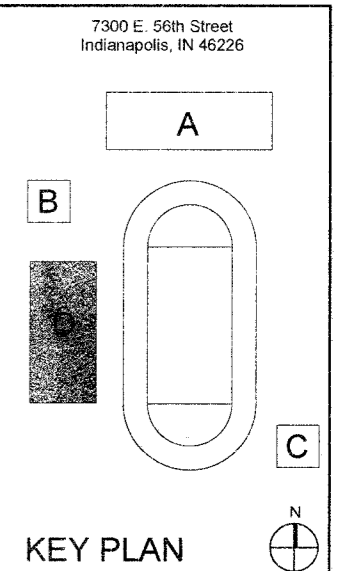
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FOUNDATION PLANS

SF1D1

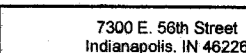
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Wally B. Hami

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A



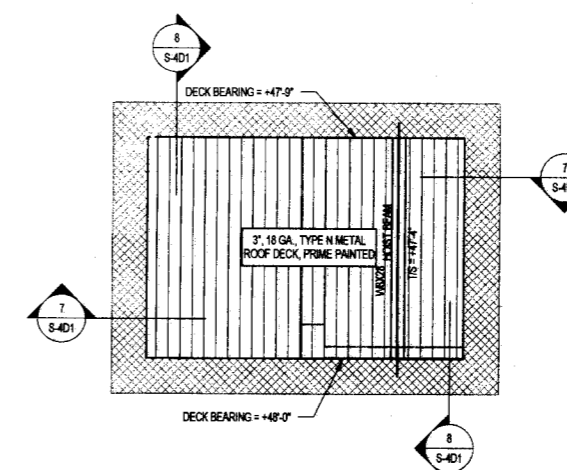
KEY PLAN

MSD OF
LAWRENCE
TOWNSHIP

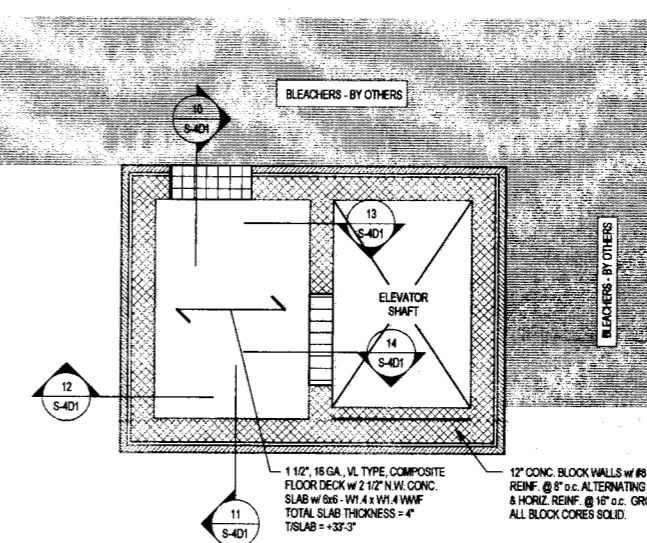
LC EXTERIOR
FACILITY
UPGRADES - BP2

FRAMING PLANS

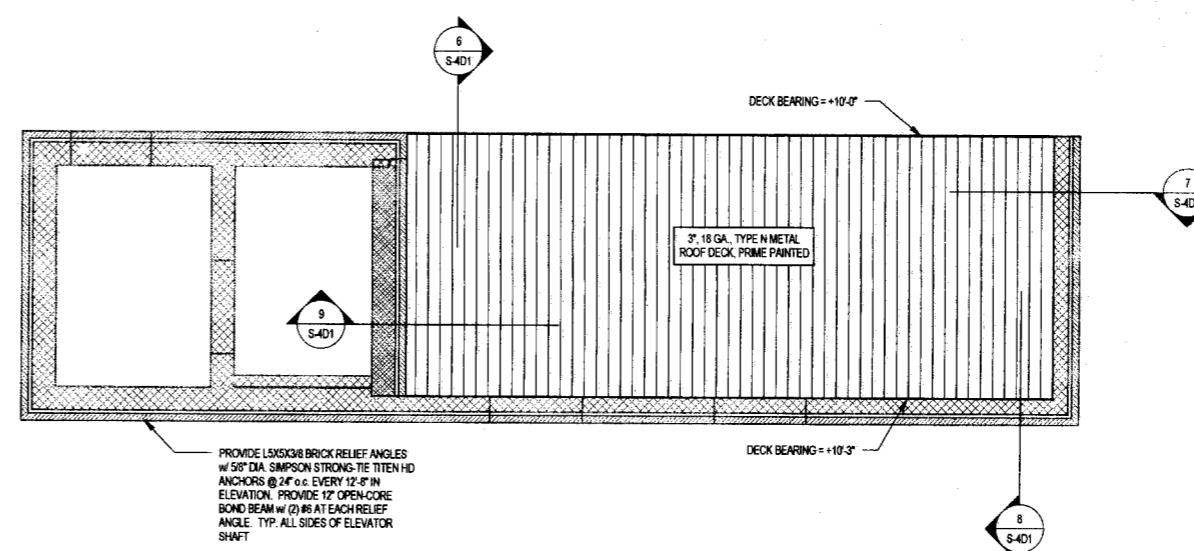
SF1D2



3 ELEVATOR ROOF FRAMING PLAN
1/4" = 1'-0"



2 PRESSBOX LEVEL FLOOR FRAMING PLAN
1/4" = 1'-0"



1 LOW ROOF FRAMING PLAN
1/4" = 1'-0"

6

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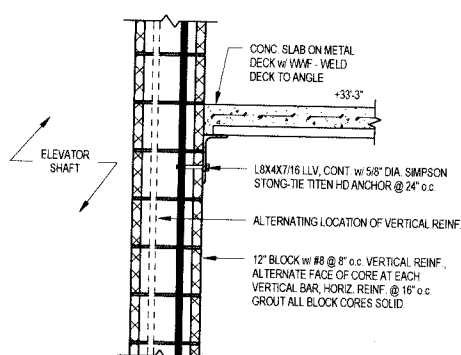
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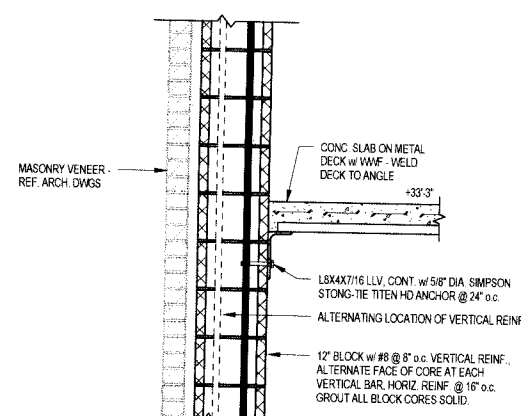
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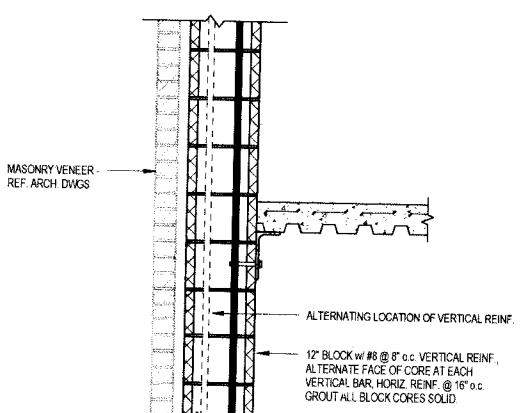
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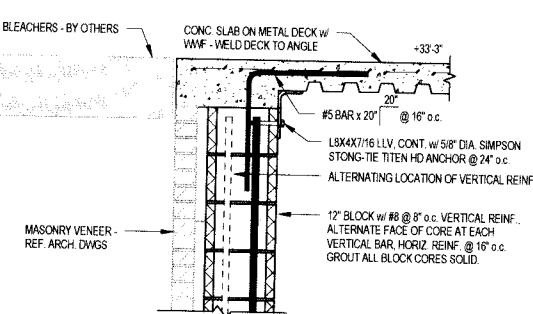
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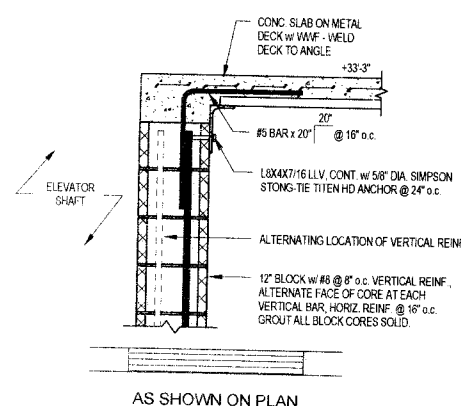
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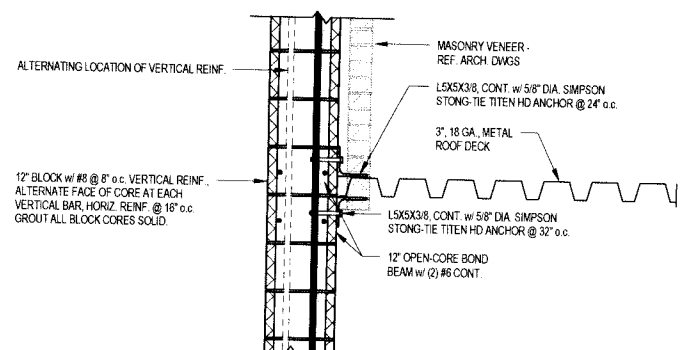
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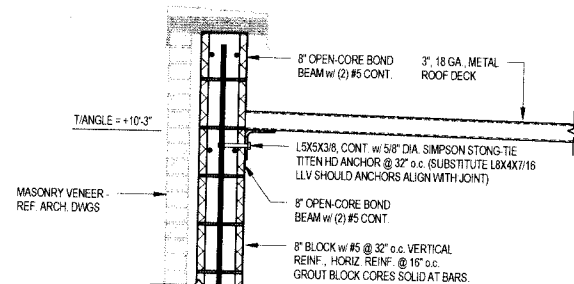
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3/4" = 1'-0"



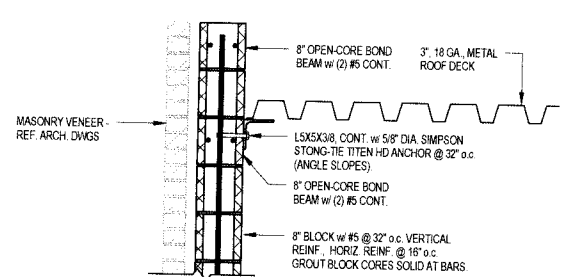
14 SECTION
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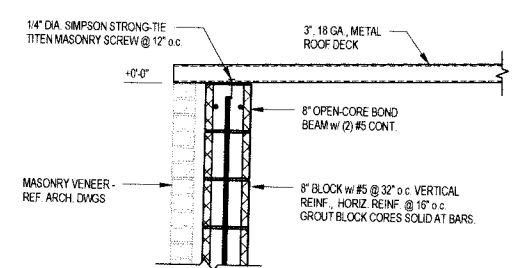
9 SECTION
3/4" = 1'-0"



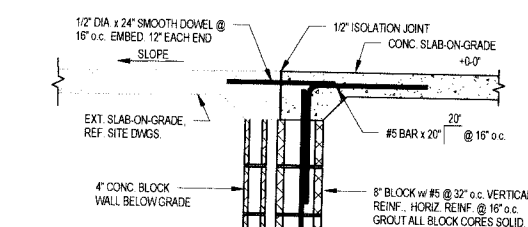
8 SECTION
3/4" = 1'-0"



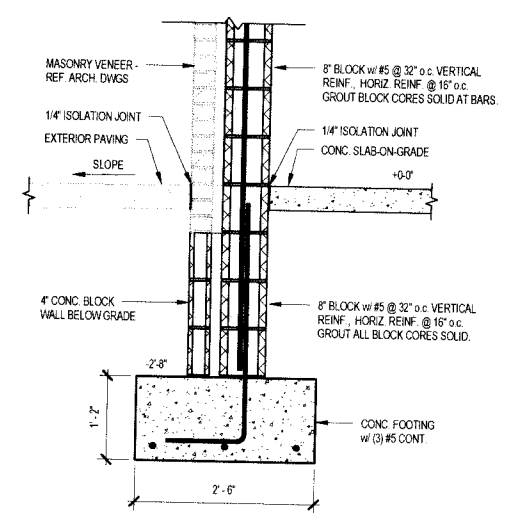
7 SECTION
3/4" = 1'-0"



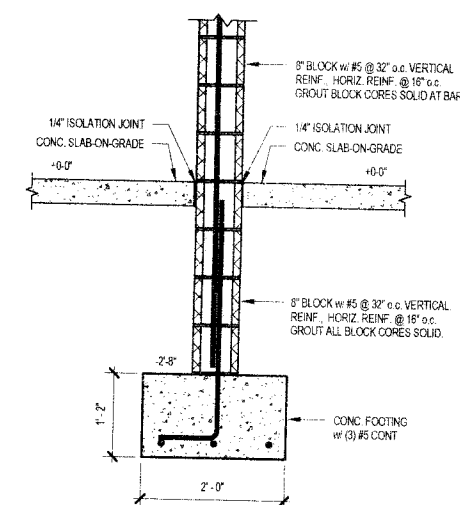
6 SECTION
3/4" = 1'-0"



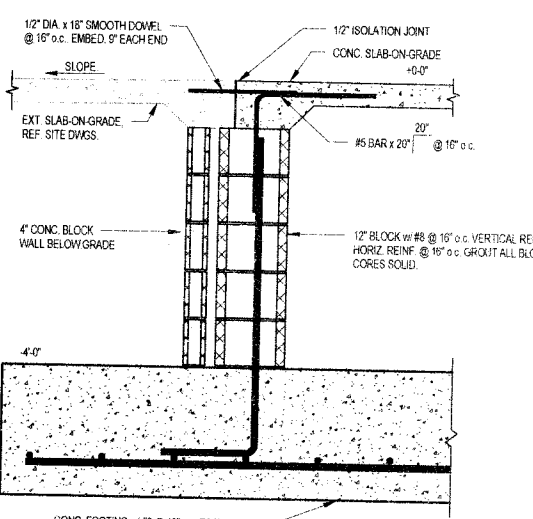
5 SECTION
3/4" = 1'-0"



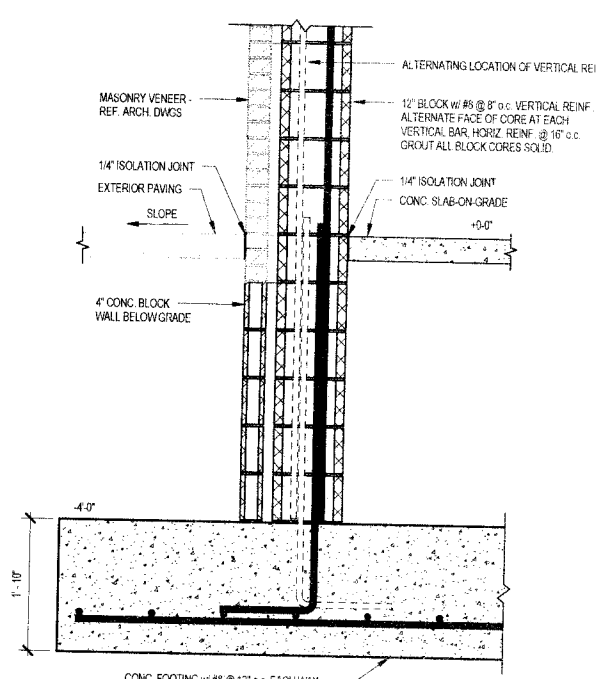
4 SECTION
3/4" = 1'-0"



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



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



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

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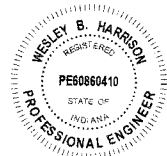
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Project No. 2015-121.LCS

Project Date 04.18.2016

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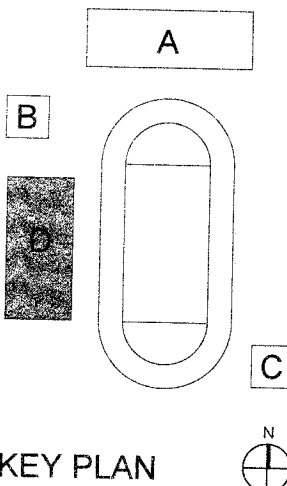


Wesley B. Harbison

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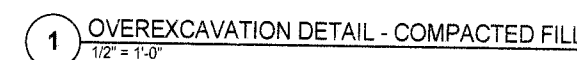
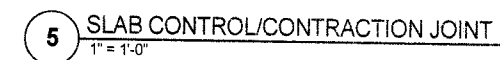
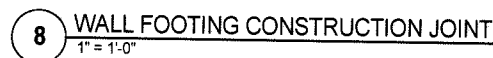
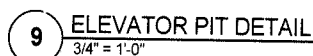
7300 E. 56th Street
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KEY PLAN

MSD OF
LAWRENCE
TOWNSHIPLC EXTERIOR
FACILITY
UPGRADES - BP2

STRUCTURAL SECTIONS

S-4D1



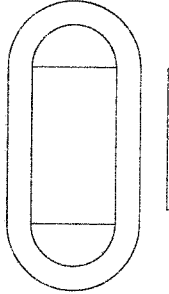
MP1A1
FIRST FLOOR PIPING
PLAN - UNIT A

LC EXTERIOR
FACILITY
UPGRADES - BP2



MSD OF
LAWRENCE
TOWNSHIP

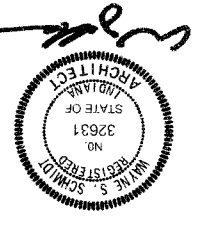
KEY PLAN



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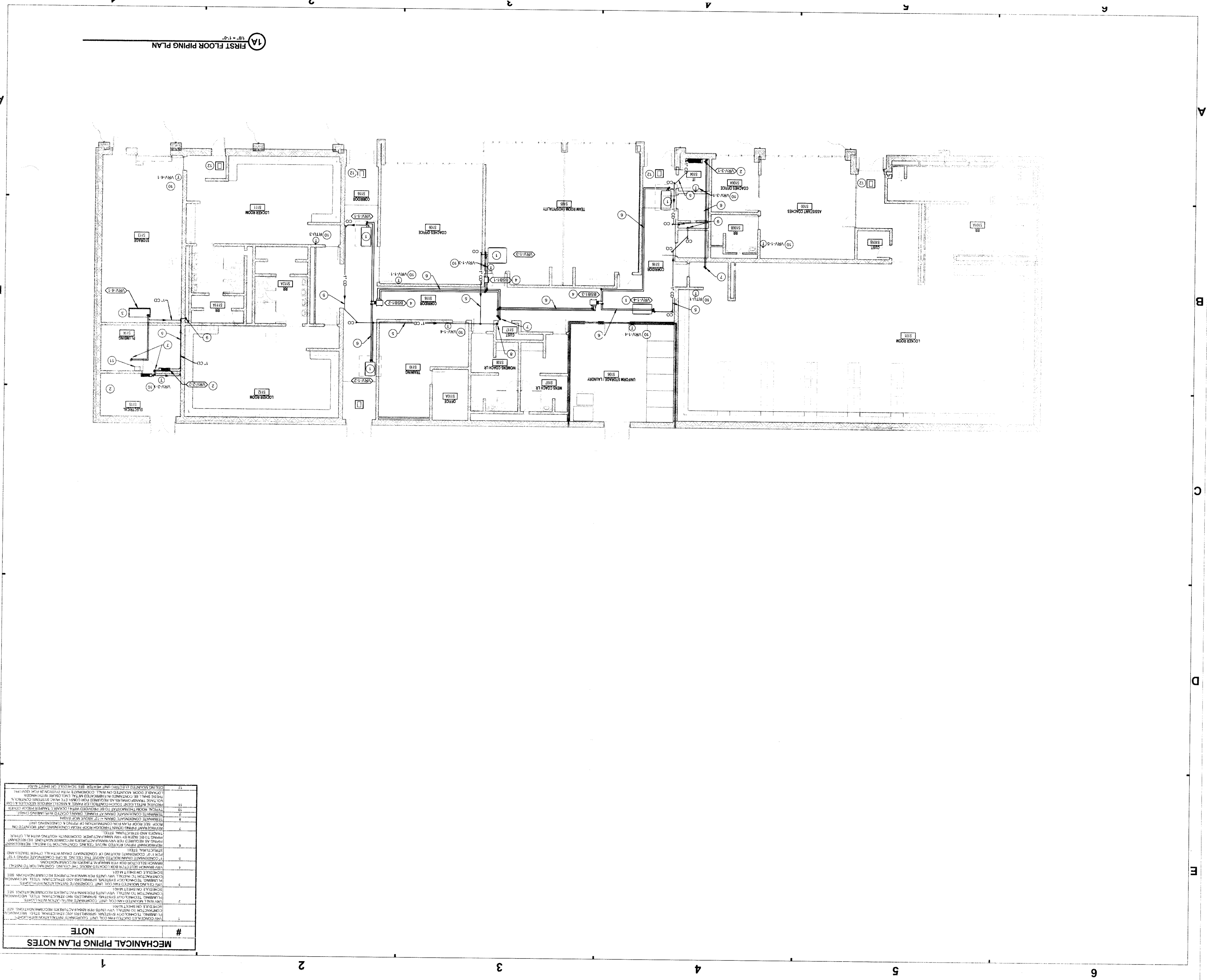

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Project Date: 04-18-2016
Project No.: 2015-121-LS

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#	NOTE
1	ALL CONDUITS TO BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) AND THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) REQUIREMENTS.
2	ALL PIPING TO BE INSTALLED IN ACCORDANCE WITH THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) REQUIREMENTS.
3	ALL EQUIPMENT TO BE INSTALLED IN ACCORDANCE WITH THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) REQUIREMENTS.
4	ALL ELECTRICAL WIRING TO BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) AND THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) REQUIREMENTS.
5	ALL MECHANICAL SYSTEMS TO BE INSTALLED IN ACCORDANCE WITH THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) REQUIREMENTS.
6	ALL PLUMBING SYSTEMS TO BE INSTALLED IN ACCORDANCE WITH THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) REQUIREMENTS.
7	ALL GAS PIPING TO BE INSTALLED IN ACCORDANCE WITH THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) REQUIREMENTS.
8	ALL HYDRAULIC PIPING TO BE INSTALLED IN ACCORDANCE WITH THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) REQUIREMENTS.
9	ALL AIR CONDITIONING SYSTEMS TO BE INSTALLED IN ACCORDANCE WITH THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) REQUIREMENTS.
10	ALL HEATING SYSTEMS TO BE INSTALLED IN ACCORDANCE WITH THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) REQUIREMENTS.
11	ALL VENTILATION SYSTEMS TO BE INSTALLED IN ACCORDANCE WITH THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) REQUIREMENTS.
12	ALL EXHAUST SYSTEMS TO BE INSTALLED IN ACCORDANCE WITH THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) REQUIREMENTS.

6

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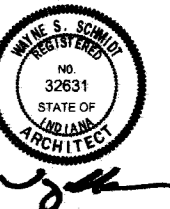
MECHANICAL ROOF PLAN NOTES	
#	NOTE
1	AIR COOLED VAV CONDENSING UNIT MOUNTED ON MRO FRAME ROOF SUPPORTS. SEE SCHEDULE ON M401 & SEE DETAIL 3A-M-501.
2	REFRIGERANT PIPING ROUTED ON ROOF. PIPING SUPPORTS LIKE MRO INDUSTRIES PIPE STAND. REFERENCE DETAIL 3A-M-501.
3	REFRIGERANT PIPING FROM CONDENSING UNIT ROUTED DOWN THROUGH ROOF CURB. SEE REFRIGERANT CURB INSTALLATION DETAIL 20A-M-501.
4	GAS FIRED DX / GAS FIRED ROOFTOP UNIT. SEE SCHEDULE ON SHEET M401 & DETAIL 3A-M-501.
5	ALL ROOF MOUNTED EQUIPMENT SHALL BE MINIMUM OF 10'-0" AWAY FROM EDGE OF ROOF.

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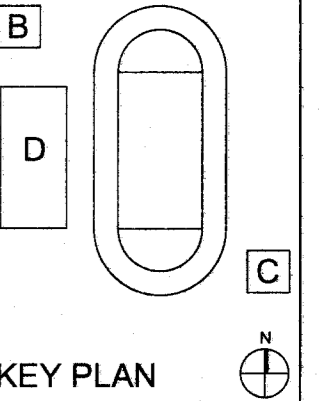
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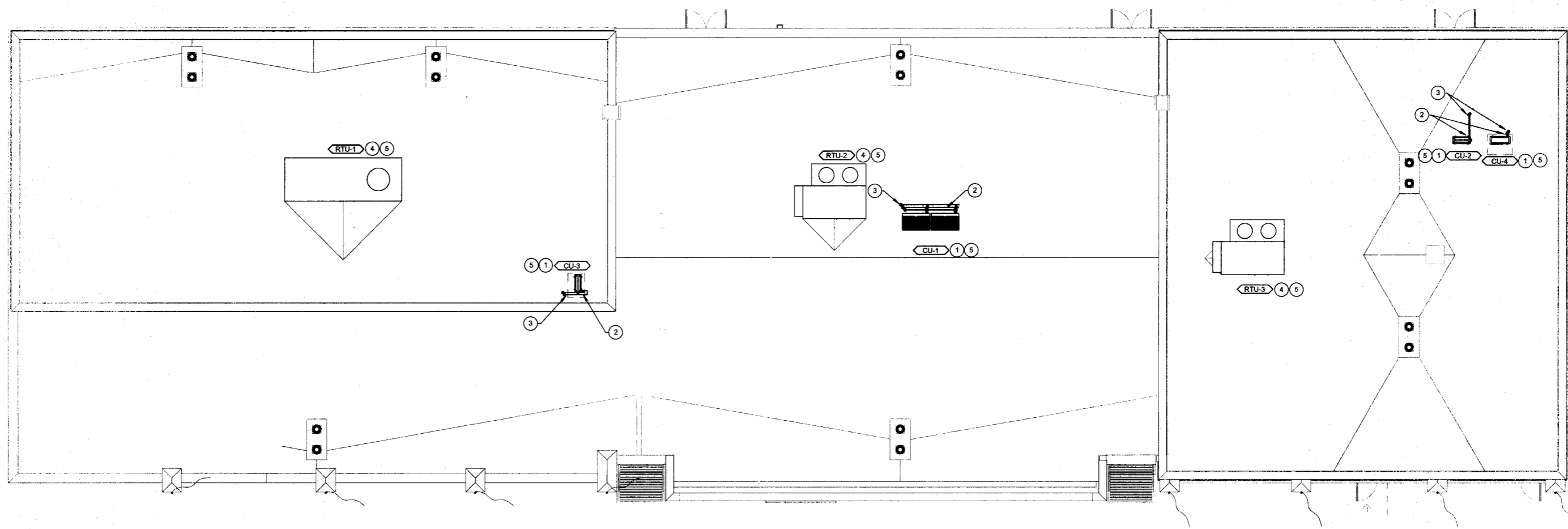
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FACILITY
UPGRADES - BP2

MECHANICAL ROOF PLAN
- UNIT A

MR1A1



1A MECHANICAL HVAC ROOF PLAN
1/8" = 1'-0"

6

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4

3

2

1

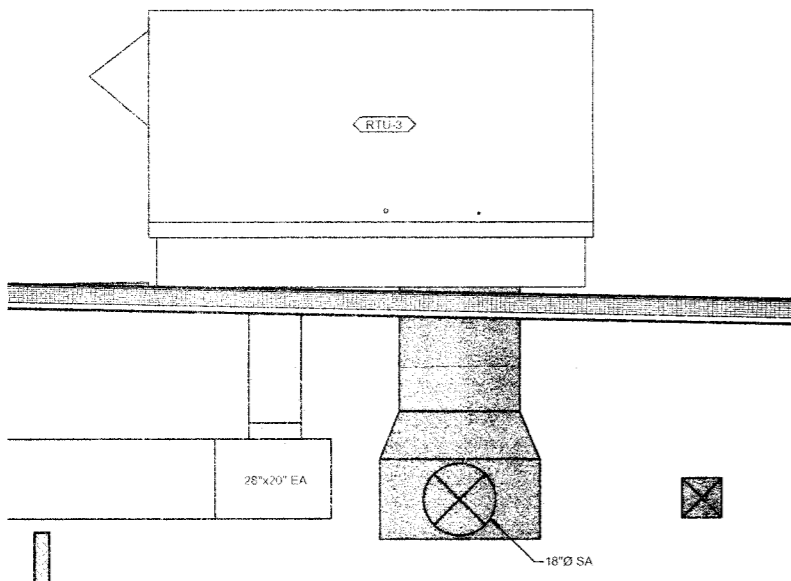
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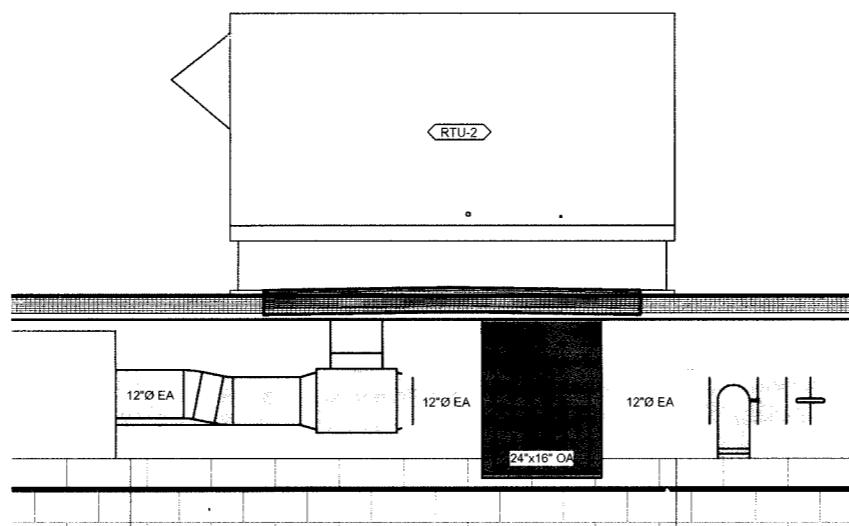
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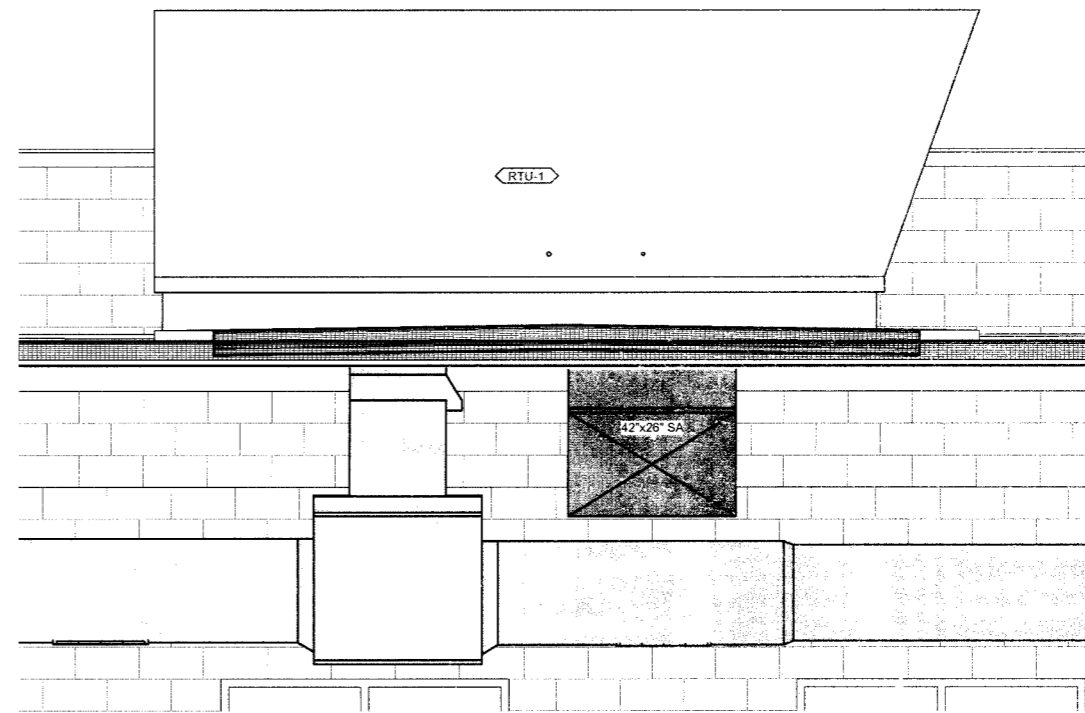
A



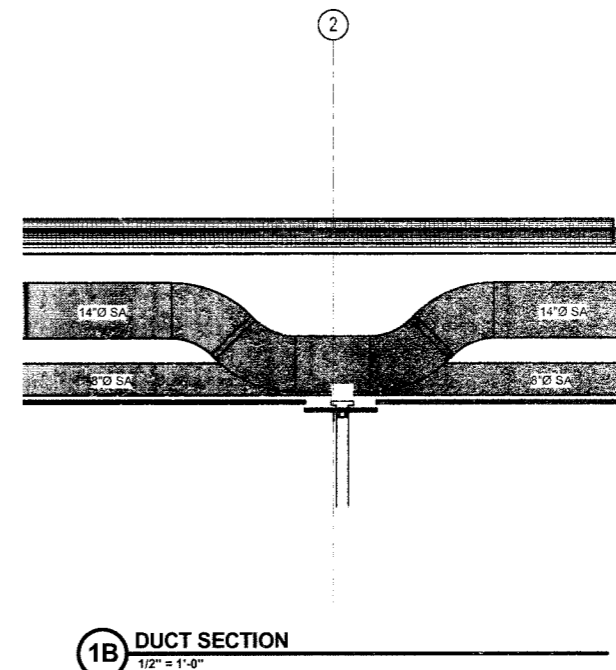
5A SECTION AT RTU-3
1/2" = 1'-0"



3A SECTION AT RTU-2
1/2" = 1'-0"



1A SECTION AT RTU-1
1/2" = 1'-0"



1B DUCT SECTION
1/2" = 1'-0"

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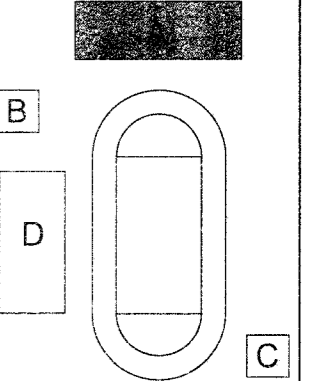


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#	Revision	Date
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#	Revision	Date
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KEY PLAN

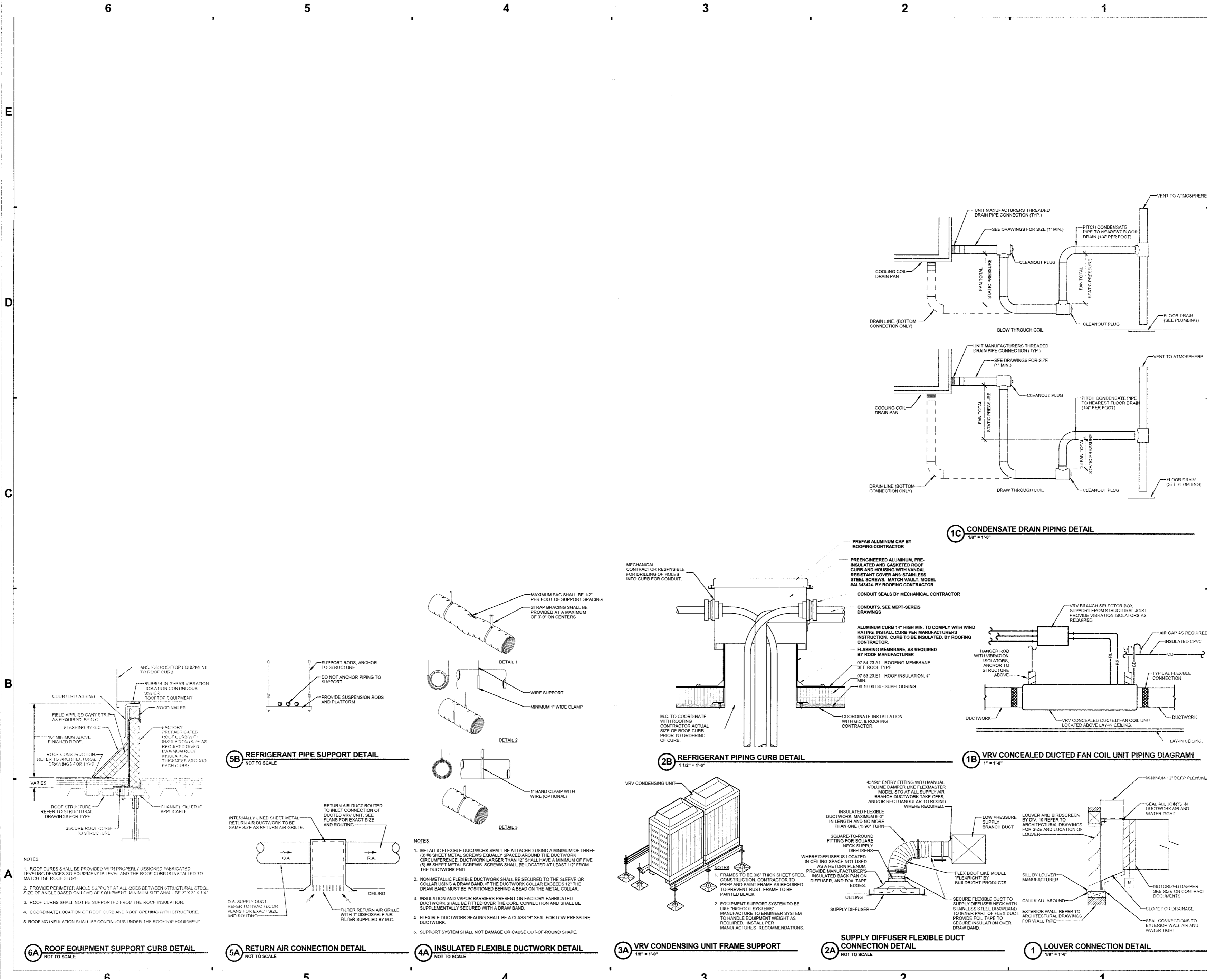
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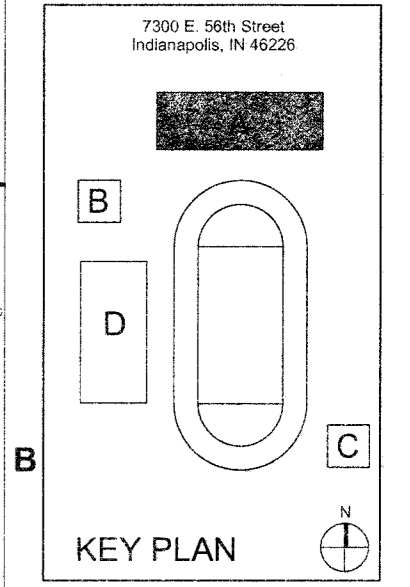
LC EXTERIOR
FACILITY
UPGRADES - BP2

MECHANICAL SECTIONS -
UNIT A

M-301



#	Revision	Date



VRV OUTDOOR AIR COOLED CONDENSING UNIT SCHEDULE																		
IDENTITY DATA					COOLING / HEATING DATA				ENERGY DATA			ELECTRICAL DATA				DISCONNECT PROVIDER	NOTES	
MARK	MANUFACTURER	MODEL	WEIGHT (LBS)	LOCATION	NOMINAL COOLING CAPACITY (TONS)	REFRIGERANT TYPE	TOTAL COOLING (BTU/H)	TOTAL HEATING (BTU/H)	COP	IEER	SEER	VOLTS (V)	PHASE	MCA (A)	MFA (A)			RLA (A)
CU-1	DAIKIN	REYQ336TYDN	1,588	ROOF	28	R-410A	312,000	352,000	3.20	17.00	10.00	460	3	72.2	80	38	ELECTRICAL CONTRACTOR	1.2,3,5
CU-2	DAIKIN	RXN2KEVJUS	168	ROOF	2	R-410A	24,000	30,000	3.20	16.60	12.50	208	1	17.8	20	14	ELECTRICAL CONTRACTOR	1.2,3,5,6
CU-3	DAIKIN	RKN18KEVJUS	93	ROOF	1.5	R-410A	18,000	22,000	3.20	16.60	12.50	208	1	15.0	20	6.8	ELECTRICAL CONTRACTOR	1.2,3,4,5,6
CU-4	DAIKIN	RZ042PVJUS	285	ROOF	3.5	R-410A	40,500	39,500	2.69	0.00	13.80	208	1	27.0	30	19.6	ELECTRICAL CONTRACTOR	1.2,3,5,6

VRV OUTDOOR AIR COOLED CONDENSING UNIT SCHEDULE NOTES:
1. UNITS TO BE MOUNTED ON PRE MANUFACTURED STANDS LIKE MRO. COORDINATE EQUIPMENT WEIGHT WITH SUPPORT SYSTEM MANUFACTURER.
2. VRV SYSTEM TO INCLUDE REFRIGERATION AUTO CHARGING LEAK CHECK FUNCTION & AUTO ADDRESSING FUNCTION.
3. CONTRACTOR TO COORDINATE REFRIGERANT PIPE ROUTING WITH EQUIPMENT MANUFACTURER.
4. COOLING SYSTEM ONLY.
5. RATED TOTAL COOLING & RATED TOTAL HEATING IS BASED ON OUTDOOR TEMPS 95°F DB/75°F WB SUMMER, 47°F DB/43°F WB WINTER.
6. PROVIDE WIND BAFFLE FOR LOW AMBIENT CONTROL DOWN TO 17°F.

VRV FAN COIL UNIT SCHEDULE															
IDENTITY DATA				COOLING / HEATING DATA				DIMENSIONS				ELECTRICAL DATA			
MARK	MANUFACTURER	MODEL	WEIGHT (LBS)	NOMINAL COOLING (TONS)	COOLING CAPACITY (BTU/H)	HEATING CAPACITY (BTU/H)	OUTSIDE AIR (CFM)	REFRIG. TYPE	H	L	W	VOLTS (V)	PHASE	FREQ (HZ)	NOTES
VRV-1.1	DAIKIN	FXM23PVJUS	139 lb	3	36,000	40,000	400	R-410A	1'-0"	4'-7"	2'-4"	208	1	60	1,2,3,4
VRV-1.2	DAIKIN	FXM23PVJUS	99 lb	2.5	30,000	34,000	225	R-410A	1'-0"	3'-3"	2'-4"	208	1	60	1,2,3,4
VRV-1.3	DAIKIN	FXM23PVJUS	302 lb	8	96,000	108,000	685	R-410A	1'-7"	3'-7"	4'-6"	208	1	60	1,2,3,4
VRV-1.4	DAIKIN	FXM23PVJUS	139 lb	3	36,000	40,000	580	R-410A	1'-0"	4'-7"	2'-4"	208	1	60	1,2,3,4
VRV-1.5	DAIKIN	FXM23PVJUS	139 lb	3	36,000	40,000	380	R-410A	1'-0"	4'-7"	2'-4"	208	1	60	1,2,3,4
VRV-2.1	DAIKIN	FTXS12LVJUS	1	1	12,000	14,400	0	R-410A	1'-0"	2'-8"	2'-4"	208	1	60	1,2,3,4
VRV-2.2	DAIKIN	FTXS12LVJUS	22 lb	1	12,000	14,400	0	R-410A	1'-0"	2'-8"	0'-8"	208	1	60	1,2,3,4
VRV-3.1	DAIKIN	FTXN18KVJUS	27 lb	1.5	18,000	0	0	R-410A	1'-1"	3'-5"	0'-8"	208	1	60	1,2,3,4
VRV-4.1	DAIKIN	FHO42MVJUS	90 lb	3.5	40,500	39,500	0	R-410A	8"	5'-2"	2'-2"	208	1	60	1,2,3,4

VRV FAN COIL UNIT SCHEDULE NOTES:
1. VRV SYSTEM TO INCLUDE ITS OWN TEMPERATURE CONTROL SYSTEM. VRV CONTROL SYSTEM TO BE INTEGRATED INTO THE NEW TEMPERATURE CONTROL SYSTEM FRONT END UTILIZING BACNET-IP.
2. ALL VRV UNITS TO HAVE BUILT-IN CONDENSATE PUMPS AS REQUIRED TO PUMP CONDENSATE TO CONDENSATE PIPING OR DRAINS. SEE CONDENSATE DRAIN PIPING ON CONTRACT DOCUMENTS.
3. VRV SYSTEM UNIT DISCONNECTS ARE PROVIDED BY THE ELECTRICAL CONTRACTOR, NOT THE MANUFACTURER.
4. PROVIDE COLOR MATCHING PIPE ENCLOSURE AS REQUIRED TO CONCEAL REFRIGERANT PIPING & CONDENSATE DRAIN FOR WALL UNITS.

DIFFUSERS, REGISTERS, AND GRILLES													
IDENTITY DATA				NECK SIZE (IN)				MODULE SIZE					
MARK	SYSTEM ABBREVIATION	DESCRIPTION	MANUFACTURER	MODEL	Ø	W	L	Ø	W	L	NOTES		
EC 8x8	EA	EGG CRATE FACE RETURN	PRICE	80 Series	8"	8"	8"	8"	8"	8"			
EC 10x10	EA	EGG CRATE FACE RETURN	PRICE	80 Series	0"	10"	10"	0"	10"	10"			
EC 12x12	EA	EGG CRATE FACE RETURN	PRICE	80 Series	12"	12"	12"	12"	12"	12"			
SDGER22x12	EA	SPIRAL DUCT GRILLE EXTRUDED RETURN ALUMINUM	PRICE	SDGER	0"	12"	22"	SDGER					
FEC 24x24	OA	EGG CRATE FACE FILTER RETURN	PRICE	80FF Series	0"	24"	24"				1,2		
EC 12x12	RA	EGG CRATE FACE FILTER RETURN	PRICE	80 Series	12"	12"	12"				1,2		
EC 10x10	RA	EGG CRATE FACE FILTER RETURN	PRICE	80FF Series	0"	10"	10"				1,2		
FEC 24x12	RA	EGG CRATE FACE FILTER RETURN	PRICE	80FF Series	0"	24"	12"				1,2		
FEC 24x24	RA	EGG CRATE FACE FILTER RETURN	PRICE	80FF Series	0"	24"	24"				1,2		
SD24-6	SA	SQUARE CONE DIFFUSER	PRICE	ASCOA	6"	24"	24"				1,2		
SD24-8	SA	SQUARE CONE DIFFUSER	PRICE	ASCOA	8"	24"	24"				1,2		
SD24-10	SA	SQUARE CONE DIFFUSER	PRICE	ASCOA	10"	24"	24"				1,2		
SD24-12	SA	SQUARE CONE DIFFUSER	PRICE	ASCOA	12"	24"	24"				1,2		
SD24-14	SA	SQUARE CONE DIFFUSER	PRICE	ASCOA	14"	24"	24"				1,2		
SDGE24x12	SA	SPIRAL DUCT GRILLE EXTRUDED ALUMINUM	PRICE	SDGE	0"	12"	24"				1,2		

DIFFUSERS, REGISTERS, AND GRILLES NOTES:
1. SEE DETAIL 2A-1A-501 & 2A-1A-501.
2. REFERENCE ARCHITECTURAL REFLECTED CEILING PLAN FOR CEILING TYPE.

BRANCH SELECTOR BOX SCHEDULE													
IDENTITY DATA				ELECTRICAL DATA									
MARK	MANUFACTURER	MODEL	NOMINAL COOLING (TONS)	VOLTS (V)	FREQ (HZ)	PHASE	MCA (A)	NOTES					
BSB1-1	DAIKIN	BSQ26TVJ	8	208	60	1	0.1	1,2					
BSB1-2	DAIKIN	BSQ454TVJ	4.5	208	60	1	0.4	1,2					
BSB1-3	DAIKIN	BSQ454TVJ	4.5	208	60	1	0.4	1,2					

BRANCH SELECTOR BOX SCHEDULE NOTES:
1. INSTALL UNITS PER MANUFACTURER'S RECOMMENDATIONS.
2. VRV SYSTEM UNIT DISCONNECTS ARE PROVIDED BY THE ELECTRICAL CONTRACTOR, NOT THE MANUFACTURER.

CEILING UNIT HEATER SCHEDULE											
IDENTITY DATA				HEATING DATA	FAN DATA			ELECTRICAL DATA			NOTES
				CAPACITY (KW)							
MARK	MANUFACTURER	MODEL	LOCATION		CFM	RPM	VOLTAGE	PHASE	FLA		
CUH-1	MARLEY ENGINEERED PRODUCTS	CDP-558	CORRIDOR 116	5	300	1,400	208	3	13.9		1,2,3
CUH-2	MARLEY ENGINEERED PRODUCTS	CDP-558	CORRIDOR 116	5	300	1,400	208	3	13.9		1,2,3
CUH-3	MARLEY ENGINEERED PRODUCTS	CDP-558	CORRIDOR 116	5	300	1,400	208	3	13.9		1,2,3
CUH-4	MARLEY ENGINEERED PRODUCTS	CDP-558	LOCKER ROOM RM111	5	300	1,400	208	3	13.9		1,2,3
CUH-5	MARLEY ENGINEERED PRODUCTS	CDP-558	LOCKER ROOM RM111	5	300	1,400	208	3	13.9		1,2,3

CEILING UNIT HEATER SCHEDULE NOTES:
1. CEILING RECESSED.
2. DISCONNECT SWITCH AND ALL INTERLOCK RELAYS TO BE INSTALLED WITHIN THE HEATER ENCLOSURE.
3. INTEGRAL THERMOSTAT.

ENERGY RECOVERY WHEEL SCHEDULE																					
IDENTITY DATA			SUPPLY FAN DATA				EXHAUST FAN DATA				SUMMER				WINTER						
MARK	MANUFACTURER	MODEL	LOCATION	AIRFLOW (CFM)	HEAT EXCH SP (IN-WG)	AIRFLOW (CFM)	HEAT EXCH SP (IN-WG)	ELECTRICAL DATA			EAT (°F) (°F)		LAT (°F) (°F)		HEAT RECOVERED (BTU/H)	EAT (°F) (°F)		LAT (°F) (°F)		HEAT RECOVERED (BTU/H)	NOTES
								MOTOR HP	VOLTS	PHASE	DB	WB	DB	WB		DB	WB	DB	WB		
RTU-1	DAIKIN APPLIED	DP5028A	ROOF	7,100	0.90	7,275	0.90	0.17	460	3	95	78	82.8	69.3	241,820	-10	-10	35.4	26.0	413,709	1.2,3,4
RTU-2	DAIKIN APPLIED	DP5012A	ROOF	2,500	0.56	1,300	0.56	0.17	460	3	95	78	84.4	70.7	68,443	-10	-10	29.9	24.4	118,566	1,2,3,4
RTU-3	DAIKIN APPLIED	DP5015A	ROOF	3,640	0.81	3,850	0.81	0.17	460	3	95	78	81.9	68.7	132,263	-10	-10	39.2	31.6	227,302	1,2,3,4

ENERGY RECOVERY WHEEL SCHEDULE NOTES:
1. ALL MOTORS WITH VARIABLE FREQUENCY DRIVES TO BE PROVIDED WITH SHUNT GROUNDING RING.
2. AMBIENT TEMP. SUMMER = 95 DEG F, 78 DEG F, RETURN TEMP. SUMMER = 75 DEG F, 62 DEG F, AMBIENT TEMP. WINTER = 10 DEG F, 10 DEG F, RETURN TEMP. WINTER = 75 DEG F, 62 DEG F.
3. UNIT MOUNTED VFD BY FACTORY.
4. FROST PROTECTION WITH MODULATING CONTROL.

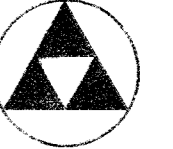
PACKAGED AIR COOLED WITH GAS FIRED FURNACE ROOF TOP UNIT SCHEDULE																					
IDENTITY DATA					SUPPLY FAN DATA						RETURN FAN DATA										
MARK	MANUFACTURER	MODEL	LOCATION	AREA SERVED	WEIGHT (LBS)	AIRFLOW (CFM)	TYPE	DRIVE	ESP (IN-WG)	TSP (IN-WG)	RPM	MOTOR BHP	AIRFLOW (CFM)	ESP (IN-WG)	TSP (IN-WG)	TYPE	DRIVE	QTY	MOTOR BHP	HP	
RTU-1	DAIKIN APPLIED	DP5028A	ROOF	LOCKER ROOM RM 101	4,816	7,100	SWSI AF	DIRECT	1.5	4.39	1,613	7.58	10	7,275	1	4.39	SWSI AF	DIRECT	1	2.9	4
RTU-2	DAIKIN APPLIED	DP5012A	ROOF	RM103, RM107, RM108, 355	2,585	2,500	SWSI AF	DIRECT	1.5	2.94	2,546	1.9	2.5	1,860	1	2.94	SWSI AF	DIRECT	1	0.6	2.5
RTU-3	DAIKIN APPLIED	DP5015A	ROOF	RM111, RM111A, RM112, RM112A	2,798	3,640	SWSI AF	DIRECT	1.5	3.57	2,500	3.13	4	3,650	1	3.57	SWSI AF	DIRECT	1	2	4

PACKAGED AIR COOLED WITH GAS FIRED FURNACE ROOF TOP UNIT SCHEDULE NOTES:
1. COORDINATE LOCATION OF UNIT WITH STRUCTURAL STEEL. COORDINATE SUPPLY AND RETURN DUCT DROPS OUT OF UNIT ROOF CURB AS REQUIRED.
2. UNIT MOUNTED ON 14" TALL ROOF CURB SUPPLIED WITH UNIT ROOF CURB AS REQUIRED.
3. UNIT PROVIDED WITH HAIL GUARD OVER CONDENSER COIL SECTION.
4. INLET GAS PRESSURE: 7.14 IN. WG. UNIT SUPPLIED WITH GAS PRESSURE REGULATOR.
5. UNIT SUPPLIED WITH BACNET-IP/STP CAPABILITY.
6. UNIT SUPPLIED WITH ECONOMIZER AND DISCHARGE AIR CONTROL WITH SPACE TEMPERATURE AND HUMIDITY SENSING.
7.
8. UNIT SUPPLIED WITH OUTDOOR AIR INTAKE HOOD AND EXHAUST AIR DISCHARGE HOOD.
9. A MINIMUM OF 36" CLEARANCE IS REQUIRED AROUND LEADING EDGE OF UNIT ON ALL SIDES.
10. BOTH SUPPLY AND RETURN EXHAUST FANS SUPPLIED WITH VFD FROM FACTORY, WIRED AND PROGRAMMED.
11. UNIT SUPPLIED WITH NON-FUSED DISCONNECT. COORDINATE ELECTRICAL POWER REQUIREMENTS WITH E.C.
12. INDIRECT GAS FURNACE SECTION. MODULATING CONTROL, 409 STAINLESS STEEL HEAT EXCHANGER, AND ELECTRONIC IGNITION.
13. ALL DAMPERS AND ACTUATORS BY RTU MANUFACTURER.
14. SEE DETAIL 6A-M-501.

PACKAGED AIR COOLED WITH GAS FIRED FURNACE ROOF TOP UNIT SCHEDULE (CONT.)																																	
IDENTITY DATA			HEATING DATA					COOLING DATA							HOT GAS REHEAT				FILTER			UNIT SIZE			ELECTRICAL DATA								
MARK	INPUT (BTU/H)	OUTPUT (BTU/H)	STAGES	EDB (°F)	LDB (°F)	REFRIG	LOAD (BTU/H)	SENSIBLE LOAD (BTU/H)	EDB (°F)	EWB (°F)	LDB (°F)	LWB (°F)	FACE AREA (SF)	ROWS	FPI	IEER	CAPACITY (BTU/H)	EAT (°F)	LAT (°F)	TYPE	EFF	L	W	H	VOLTS (V)	PHASE	MCA (A)	MOPC (A)	NOTES				
RTU-1	600,000	480,000	12-1	35.4	97.7	R410A	336,290	219,474	82.89	69.41	54.62	54.55	21.60	4	15	9.9	17.5	116,485	82.9	70.0	2 inch	MERV	17	-2"	-6"	5"	11"	460	3	69.03	90	1,2,3,4	
RTU-2	200,000	160,000	10-1	39.5	98.5	R410A	144,959	87,536	84.44	70.7	52.42	52.41	15.40	4	15	11.4	17.3	47,699	84.9	70.0	2 inch	MERV	8	9"	3"	6"	11"	4"	460	3	23.08	30	1,2,3,4
RTU-3	200,000	160,000	5-1	30.2	79.7	R410A	172,909	113,222	81.92	68.66	53.48	53.47	15.40	6	15	10.9	15.3	65,262	81.0	70.0	2 inch	MERV	9	3"	6"	11"	4"	460	3	33.7	46	1,2,3,4	

PACKAGED AIR COOLED WITH GAS FIRED FURNACE ROOF TOP UNIT SCHEDULE (CONT.) NOTES:
1. UNIT SUPPLIED WITH NON-FUSED DISCONNECT. COORDINATE ELECTRICAL POWER REQUIREMENTS WITH E.C.
2. INDIRECT GAS FURNACE SECTION. MODULATING CONTROL, 409 STAINLESS STEEL HEAT EXCHANGER, AND ELECTRONIC IGNITION.
3. ALL DAMPERS AND ACTUATORS BY RTU MANUFACTURER.
4. SEE DETAIL 6A-M-501.

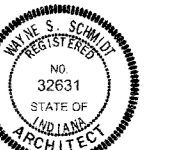
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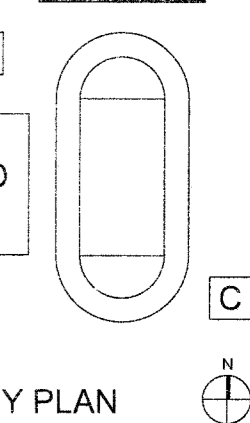
Project No. 2015-121 LCS
Project Date 04.18.2016
Produced BAW / DBC



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#	Revision	Date
A1	Addendum No. 1	4/29/2016

7300 E. 56th Street
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KEY PLAN

MSD OF
LAWRENCE
TOWNSHIP



LC EXTERIOR
FACILITY
UPGRADES - BP2

MECHANICAL SCHEDULES
- UNIT A

6

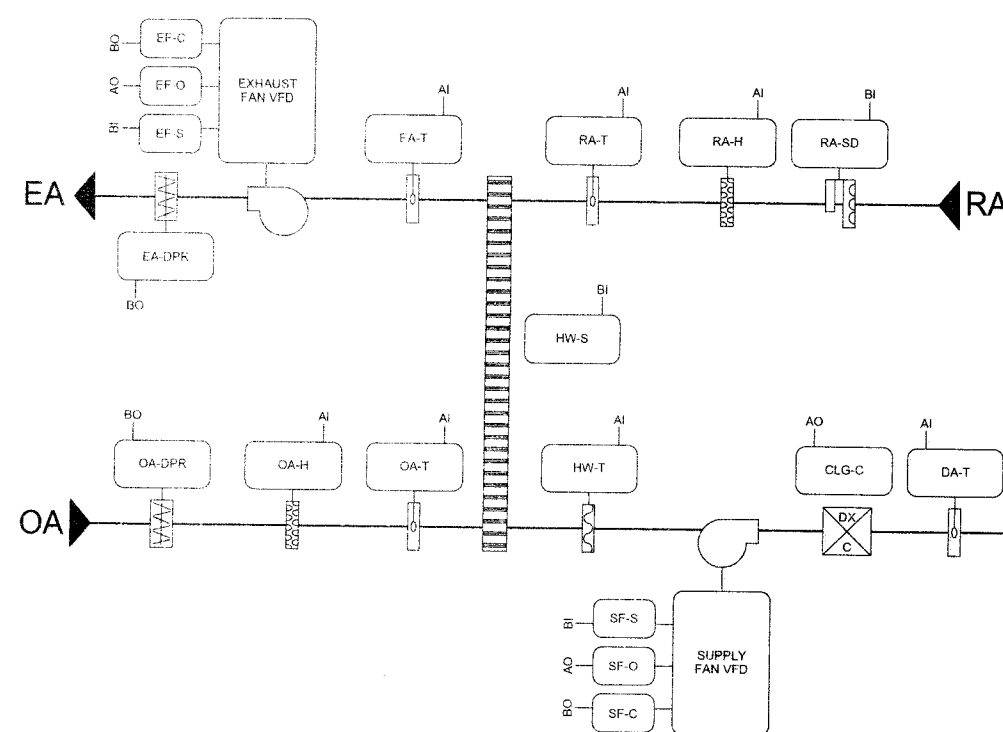
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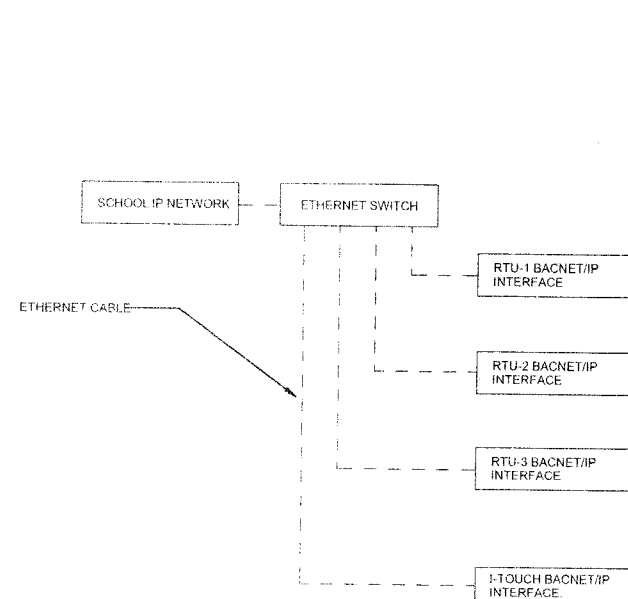
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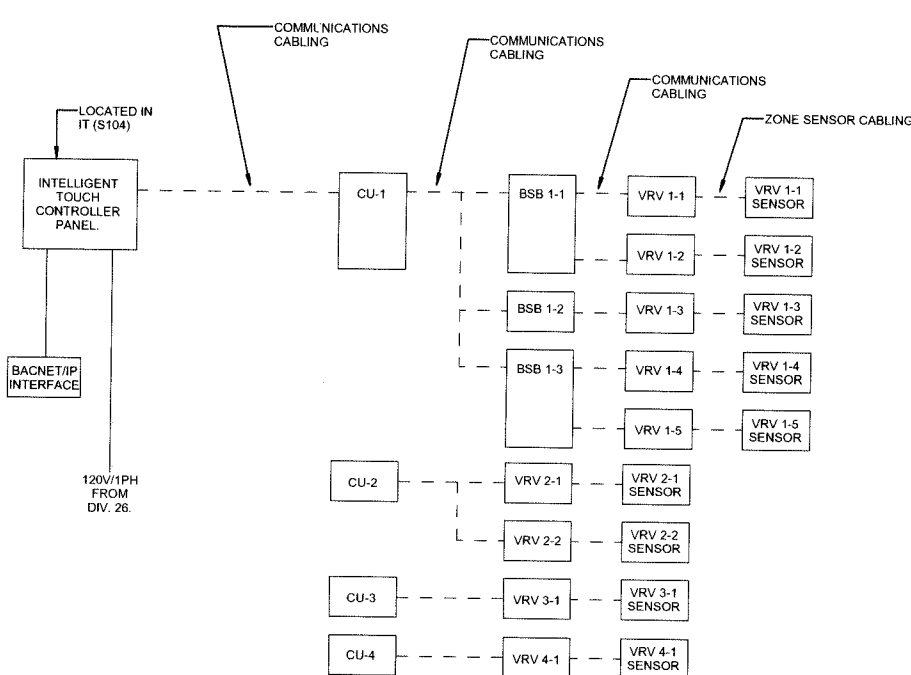


6D RTU-1,2,3
NOT TO SCALE



General Note
TCC responsible for all external cabling between equipment shown. TCC shall also install the ethernet switch. Data drop to school network provided by others. RTU BACnet/IP interface, all be furnished and installed by RTU supplier.

6A BMS IP INTERFACE DIAGRAM
NOT TO SCALE



General Note
TCC responsible for installation of all cabling between equipment shown. TCC shall also install the I-Touch panel, I-Touch BACnet/IP interface and VRV zone sensors. I-Touch panel, I-Touch BACnet/IP interface and zone sensors provided by VRV supplier. Follow manufacturer recommendations for installation and wiring requirements as this is a general layout.

4A I-TOUCH NETWORK DIAGRAM
NOT TO SCALE

ROOFTOP UNIT SEQUENCE OF OPERATION

Temperature control contractor shall install zone temperature sensor provided by RTU supplier. Occupancy status shall be picked up by an auxiliary contact on the light. RTU-1 shall utilize the lighting occupancy sensor in Locker room S101. RTU-2 shall utilize the lighting occupancy sensor in each locker room (S111 & S112) such that the unit will run when occupancy is detected in either locker room. RTU-2 shall utilize the lighting occupancy sensor in Corridor S116.

Outdoor Lighting Control

TCC shall provide a relay to wire in series with the building photocell. Relay shall be enabled based on an owner-defined occupancy schedule.

Occupied cycle: The unit runs to provide ventilation to locker rooms for the football field. Unit shall run anytime the occupancy sensor on the lights are activated. Run the unit a minimum of 15 minutes to prevent short cycling. Schedule shall be adjustable so that proper ventilation occurs during football season. Unit shall be off outside of football season unless occupancy is detected or the unoccupied setpoints are not satisfied.

Heat wheel control: The heat wheel will start and run when the ERU is running and the zone temperature rises above the occupied cooling set point by more than the half occupied cooling dead band. It will also run when the zone temperature falls below the occupied heating set point by more than the half occupied heating dead band. The wheel shall be off in all other situations.

Heat wheel defrost cycle: Condensation and frosting can occur on the enthalpy wheel when the exhaust air leaving the wheel is saturated. This condition will occur when two lines intersect on a psychrometric chart, and it will not occur when these two lines do not intersect. One of these lines is the Humidity Ratio versus the dry bulb for saturated air. The other line is the Humidity Ratio versus the dry bulb temperature of the exhaust air leaving the enthalpy wheel. The two ends of this second straight line on a psychrometric chart are the OAT at 95% RH and the return air temperature of the return air and at what temperatures these two lines intersect. If they do intersect they intersect at two points. The higher of the two points is referred to as the "Intersection Point". When they do not intersect, the enthalpy wheel runs at full speed. When they do intersect, the enthalpy wheel may be slowed or stopped to maintain the dry bulb temperature of the exhaust air leaving the enthalpy wheel high enough to eliminate the Intersection Point and therefore the threat of frosting conditions.

Zone temperature control (RTU-1 & 2): The gas heat and DX cooling shall be sequenced together to provide a zone setpoint of 72F.

Discharge temperature control (RTU-3): The gas heat and DX cooling shall be sequenced together to provide a discharge setpoint of 70F (winter) and 74F (summer).

Dehumidification control: If the return air humidity exceeds 55%, the unit shall go into a dehumidification mode. In this mode the unit shall go into full cooling and the hot gas reheat coil will be modulated to maintain zone setpoint.

Points list: The following represents the minimum points to be provided and displayed in the system graphics. Additional points required to meet the sequence shall be provided and also shown. Consult with Lawrence Township School Corporation if additional points are needed for monitoring or control purposes.

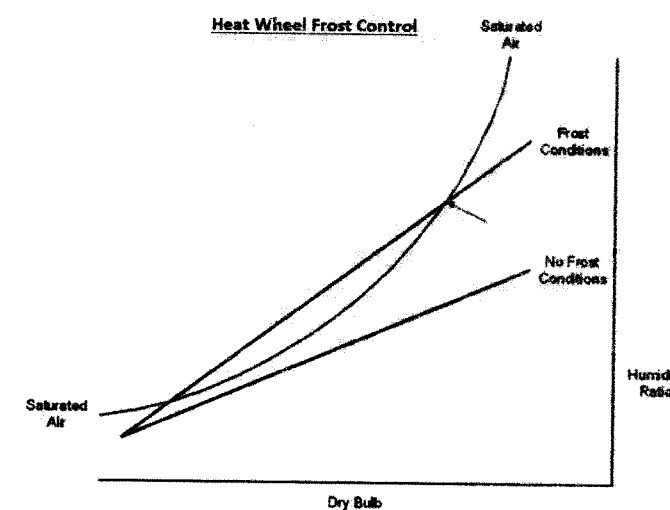
Binary inputs:
Supply fan status
Exhaust fan status
Heat wheel status

Binary outputs:
Supply fan start/stop
Exhaust fan start/stop
Heat wheel start/stop
Damper control

Analog inputs:
Outside air temperature
Outside air humidity
Heat wheel supply discharge temperature
Heat wheel exhaust discharge temperature
Return air temperature
Return air humidity
Hot gas reheat temperature
Gas heat discharge temperature
DX cooling discharge temperature
Zone temperature

Analog outputs:
Hot gas heat control
Gas heat control
DX cooling controls

Analog/Multi-state values:
Occupied Cooling Setpoint
Unoccupied Cooling Setpoint
Occupied Heating Setpoint
Unoccupied Heating Setpoint
Relative Humidity Setpoint
Alarm Value
Occupancy Mode
Occupancy Source



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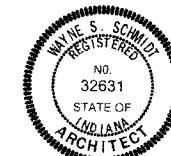
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Project No. 2015-121 LGS

Project Date 04.18.2016

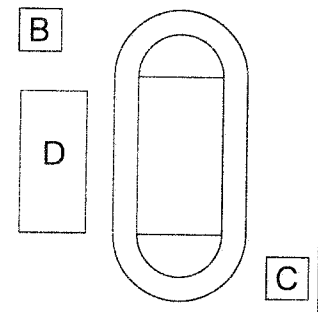
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KEY PLAN

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TOWNSHIP

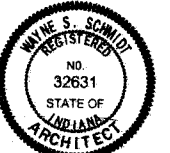


LC EXTERIOR
FACILITY
UPGRADES - BP2

TEMPERATURE
CONTROLS SCHEMATICS -
UNIT A

M-701

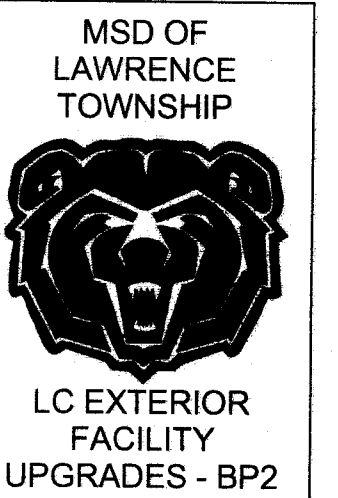
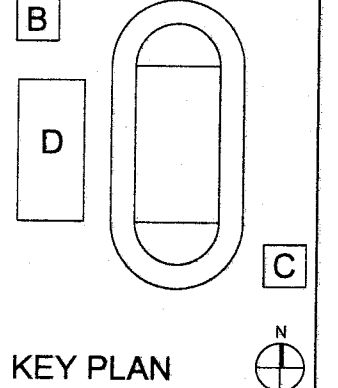
Project No. 2015-121.LCS
Project Date 04.18.2018
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#	Revision	Date
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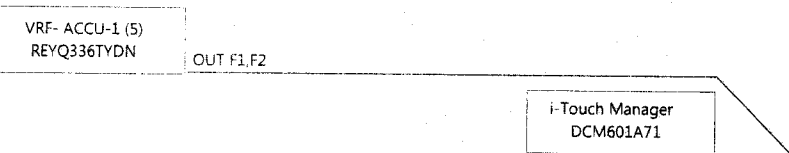
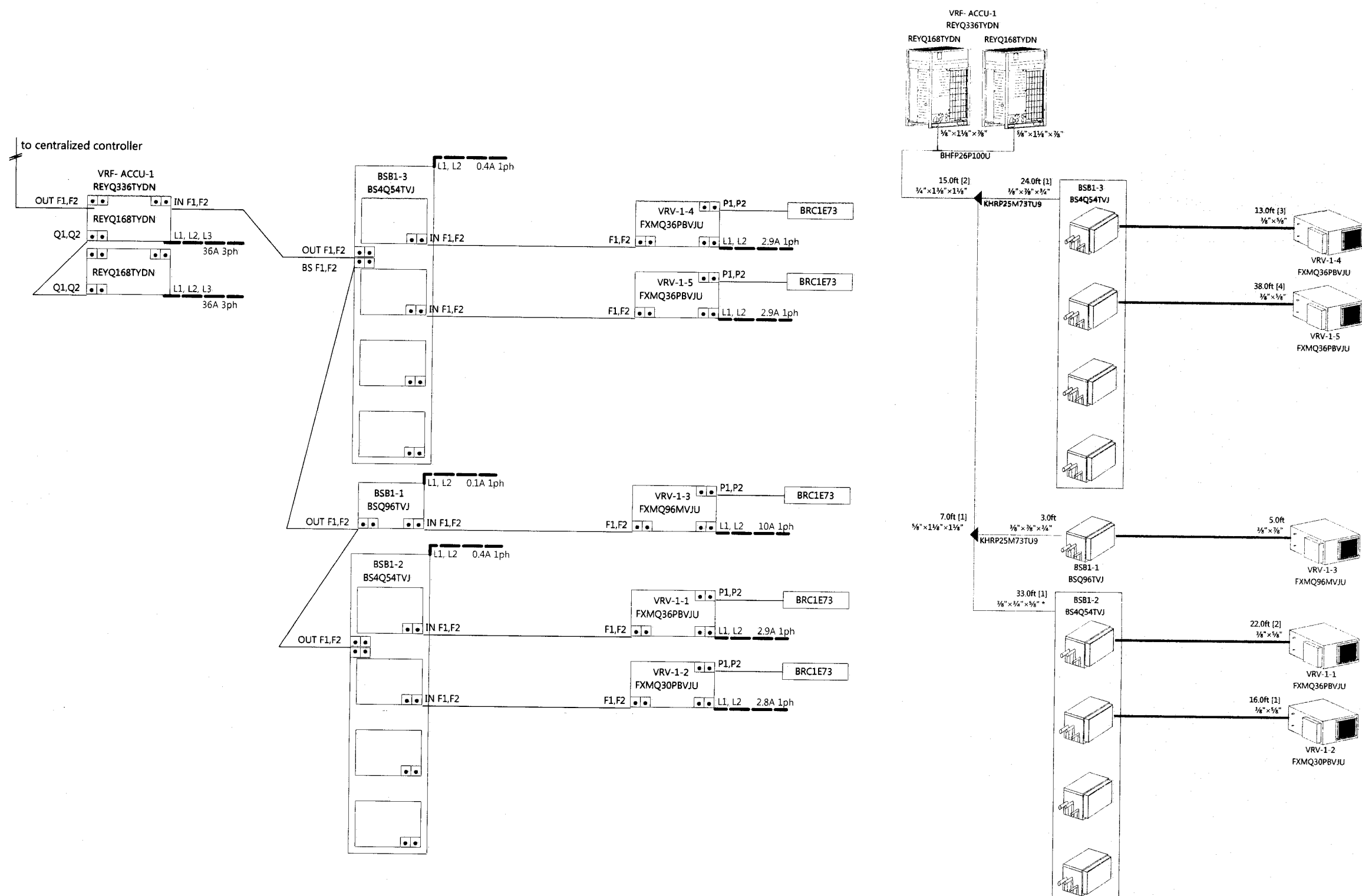
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LC EXTERIOR
FACILITY
UPGRADES - BP2

MECHANICAL
SCHEMATICS - UNIT A

M-801



3 VRF-DESIGN CONTROL WIRING
NOT TO SCALE

2 VRF-WIRING
NOT TO SCALE

1A VRF-PIPING
NOT TO SCALE

6

5

4

3

2

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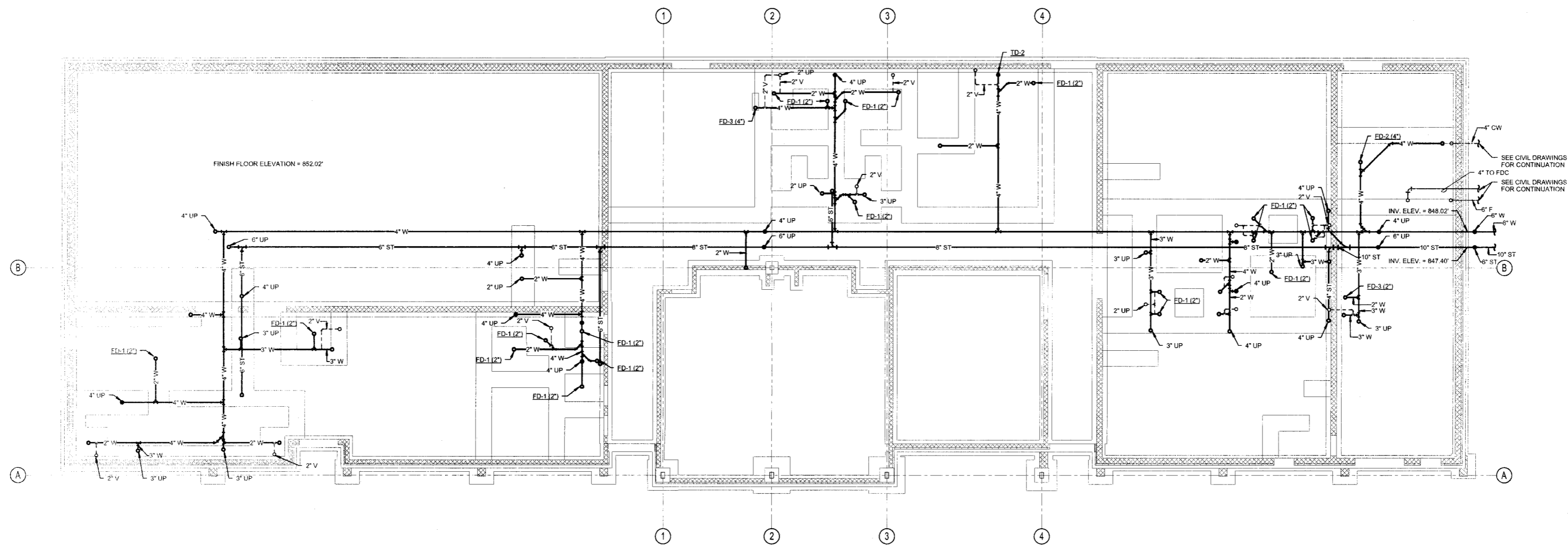
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D

C

B

A



2A FOUNDATION PLUMBING PLAN - UNIT A
1/8" = 1'-0"

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Project No. 2015-121 LCS
Project Date 04.18.2016
Prepared CCW/IOP



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#	Revision	Date
A2	ADDENDUM NO. 2	05.06.2016

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B

D

B

KEY PLAN

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LC EXTERIOR
FACILITY
UPGRADES - BP2

FOUNDATION PLUMBING
PLAN - UNIT A

PF1A0

6

5

4

3

2

1

Type Mark	IDENTITY DATA				ELECTRICAL DATA					NOTES
	MANUFACTURER	MODEL	DESCRIPTION	LOCATION	VOLTAGE (V)	PHASE	FLA	RPM	HP	
DCVA-1	ZURN	405ADA-1	DOUBLE CHECK DETECTOR ASSEMBLY	PLUMBING S114						SEE IOP FOR DETAIL

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Project Date 04.18.2016
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#	Revision	Date
A2	ADDENDUM NO. 2	05.06.2016
A3	ADDENDUM NO. 3	05.12.2016

7300 E. 56th Street
Indianapolis, IN 46226

B

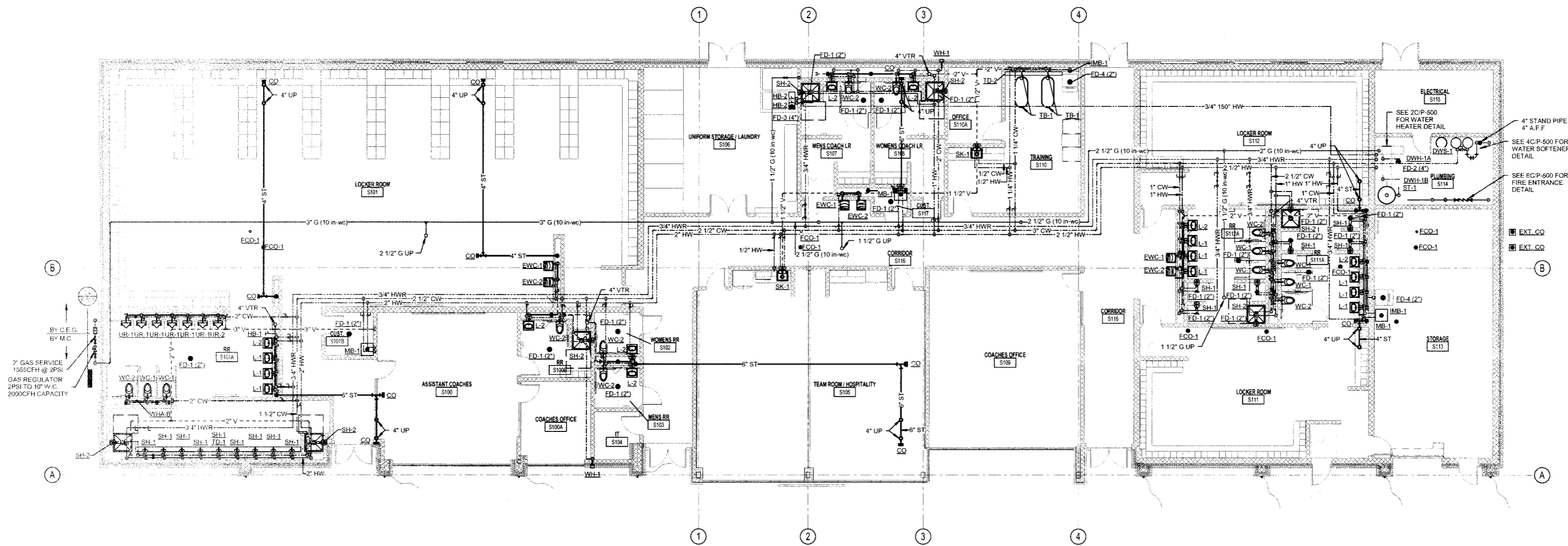
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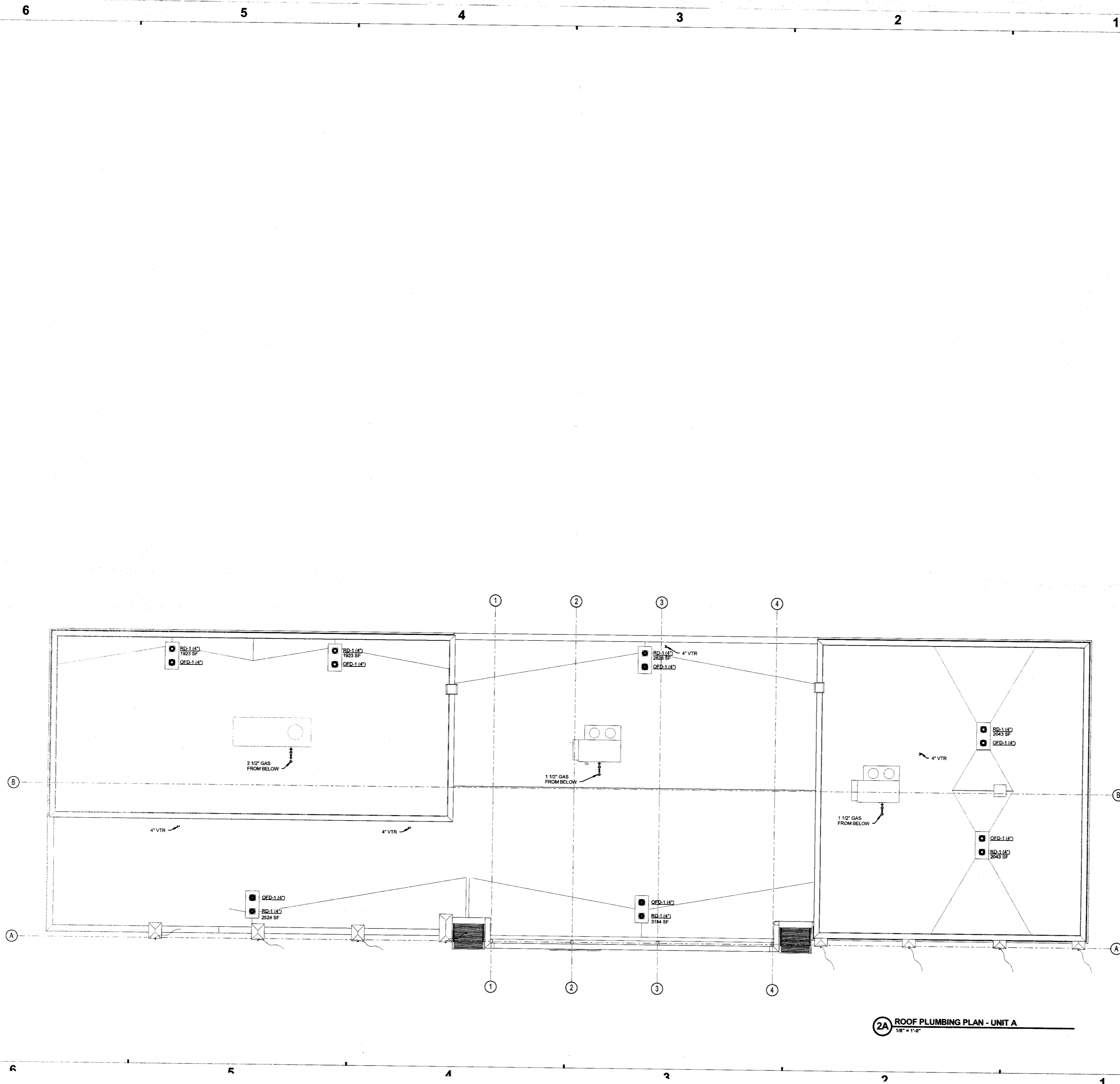
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KEY PLAN

MSD OF
LAWRENCE
TOWNSHIPLC EXTERIOR
FACILITY
UPGRADES - BP2FIRST FLOOR PLUMBING
PLAN - UNIT A

PF1A1

2A FIRST FLOOR PLUMBING PLAN - UNIT A
1/8" = 1'-0"



2A ROOF PLUMBING PLAN - UNIT A
1/8" = 1'-0"

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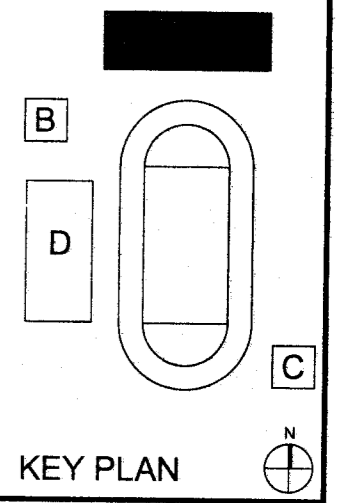
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MSD OF LAWRENCE TOWNSHIP

LC EXTERIOR FACILITY UPGRADES - BP2

ROOF PLUMBING PLAN - UNIT A
PR100

6

5

4

3

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E

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C

B

A

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#	Revision	Date
A2	ADDENDUM NO. 2	05.06.2016

7300 E. 56th Street
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B

D

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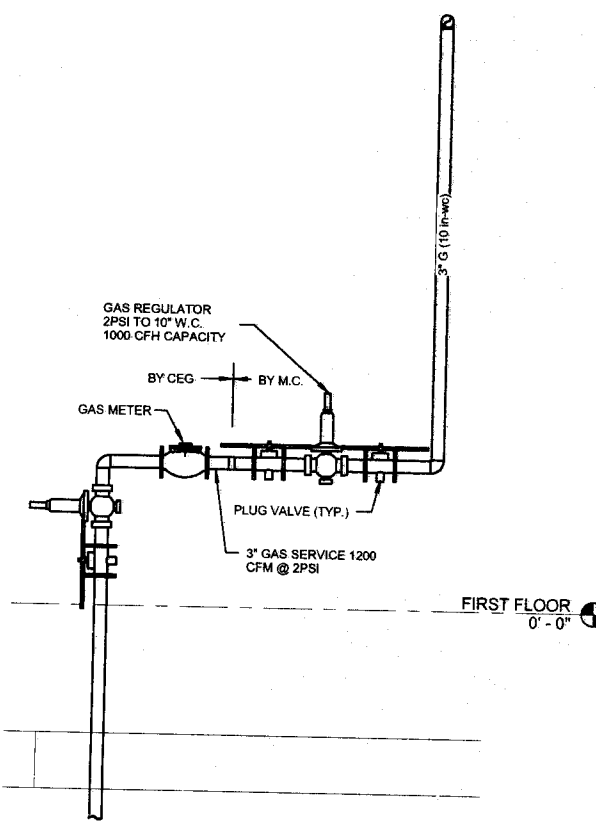
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KEY PLAN

MSD OF
LAWRENCE
TOWNSHIPLC EXTERIOR
FACILITY
UPGRADES - BP-2

PLUMBING DETAILS

P-501

2A GAS ENTRANCE DETAIL
NOT TO SCALE

6

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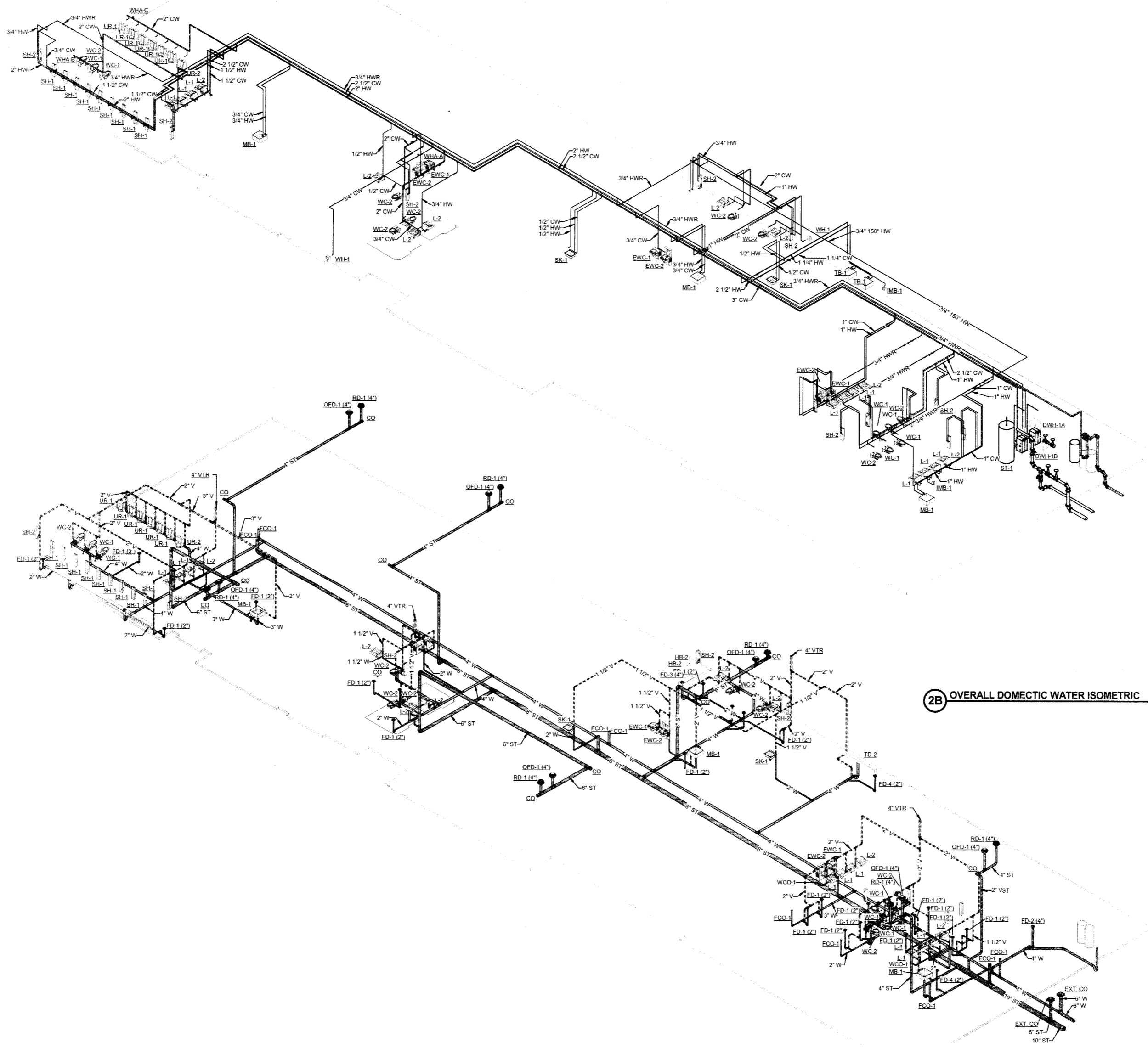
E

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C

B

A



2B OVERALL DOMESTIC WATER ISOMETRIC

2A OVERALL WASTE AND VENT ISOMETRIC

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D

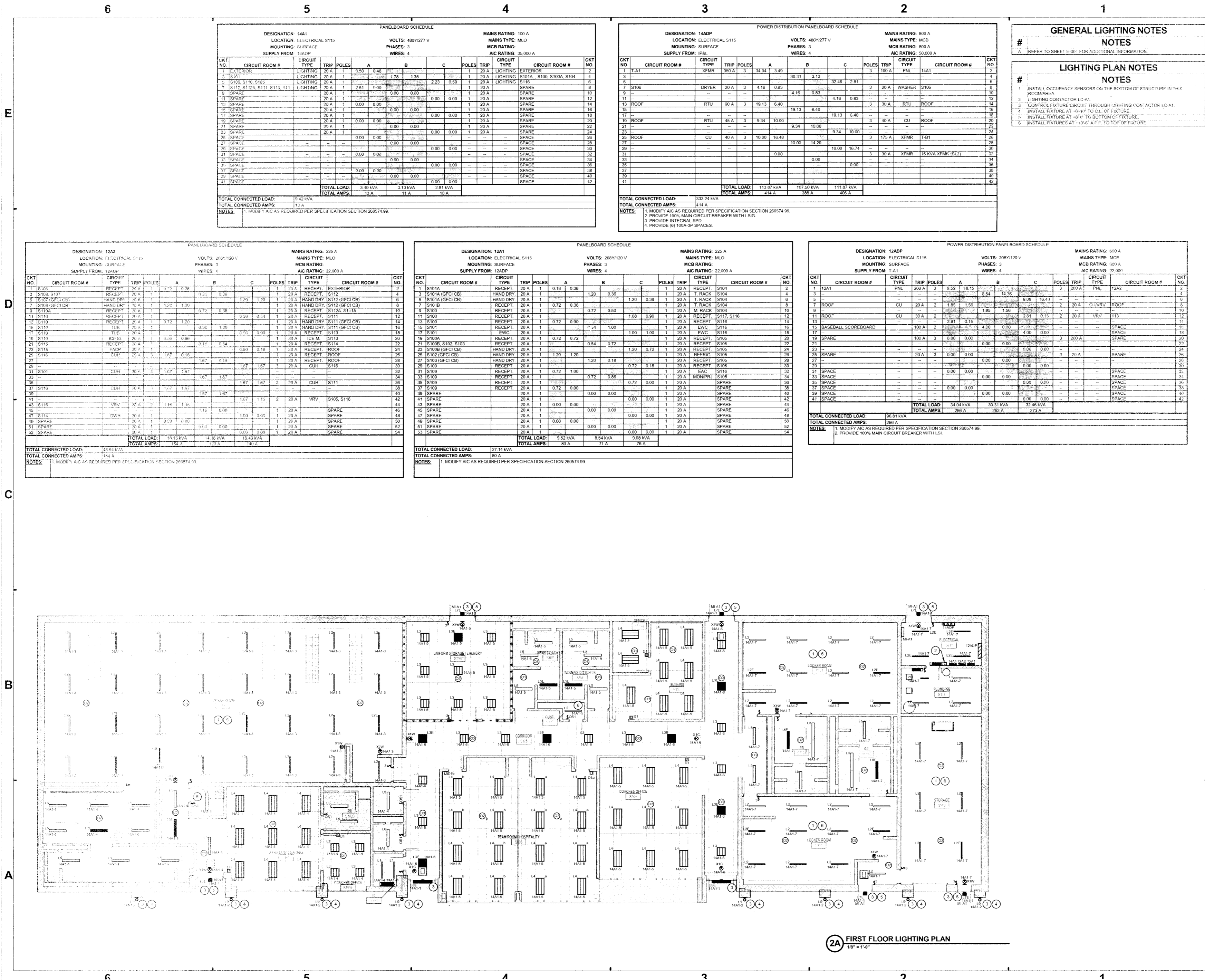
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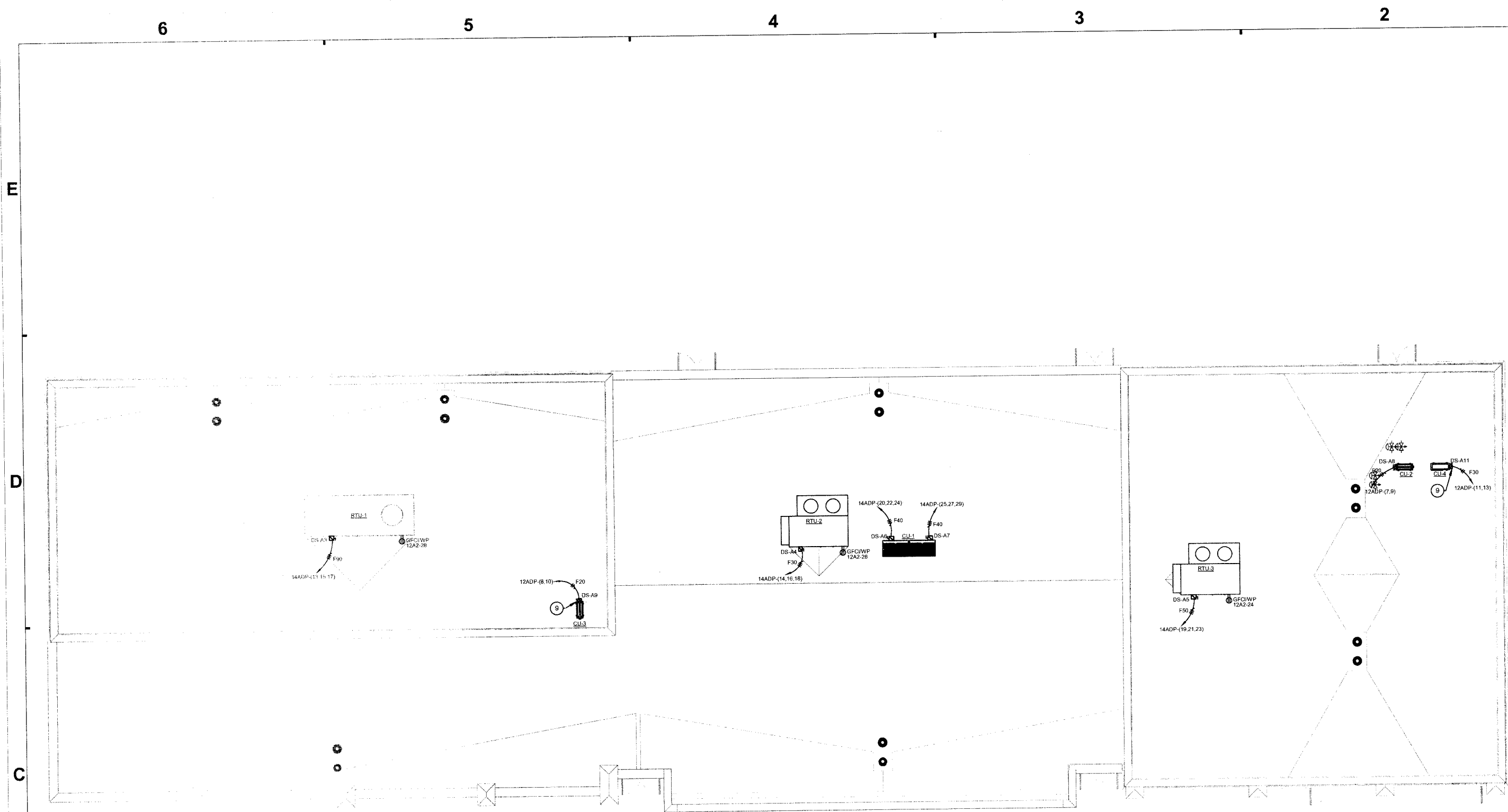
KEY PLAN

MSD OF
LAWRENCE
TOWNSHIPLC EXTERIOR
FACILITY
UPGRADES - BP2

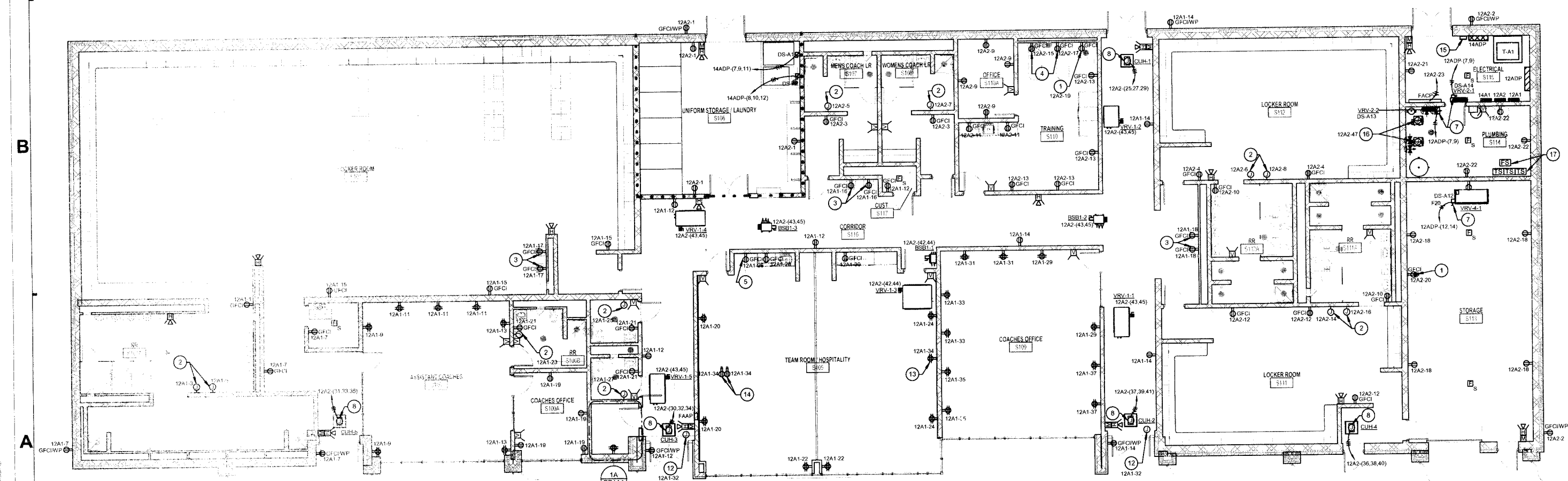
PLUMBING ISOMETRICS

P-900





2C ROOF POWER PLAN
1/8" = 1'-0"



1A POWER PLAN - IT S104
1/4" = 1'-0"

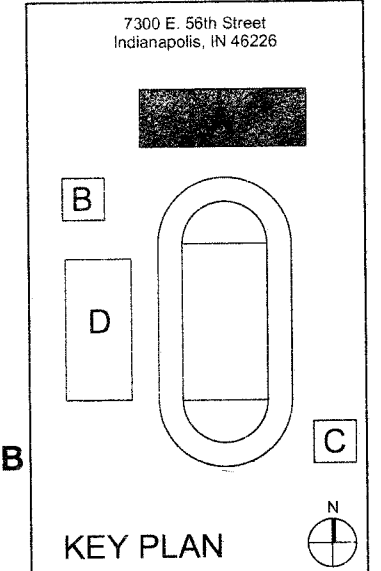
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Project No. 2015-121 LCS
Project Date 04.18.2016
Produced SACM/JAR

STATE OF INDIANA
ARCHITECT
No. 32631
W. J. Schmidt

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#	Revision	Date



MSD OF LAWRENCE TOWNSHIP

LC EXTERIOR FACILITY UPGRADES - BP2

POWER PLAN - UNIT A

EP1A1

6

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4

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2

1

GENERAL TELECOMMUNICATIONS NOTES

NOTES
A REFER TO SHEET T-001 FOR ADDITIONAL INFORMATION

TELECOMMUNICATIONS PLAN NOTES

NOTES
1 AP AND/OR SPEAKER ROUGH-IN AT 10' A.F.F.
2 PROVIDE WALL MOUNTED CABINET AS SPECIFIED.
3 2-PORT DATA OUTLET FOR FIRE ALARM CONTROL PANEL.
4 PROVIDE SURVEILLANCE CAMERA ROUGH-IN AT 12' A.F.F.
5 PROVIDE 3/4" (4" x 8") FIRE RETARDANT PLYWOOD, INSTALL HORIZONTALLY, 4' A.F.F.
6 PROVIDE ROUGH-IN AT 84" A.F.F.
7 CONDUIT TO BE ROUTED TO ABOVE CEILING IN CORRIDOR S116.
8 SPEAKER ROUGH-IN AT 8' A.F.F.
9 PROVIDE 2-GANG BOX (AT 48" A.F.F.) AND 1" CONDUIT TO ABOVE NEAREST ACCESSIBLE CEILING.

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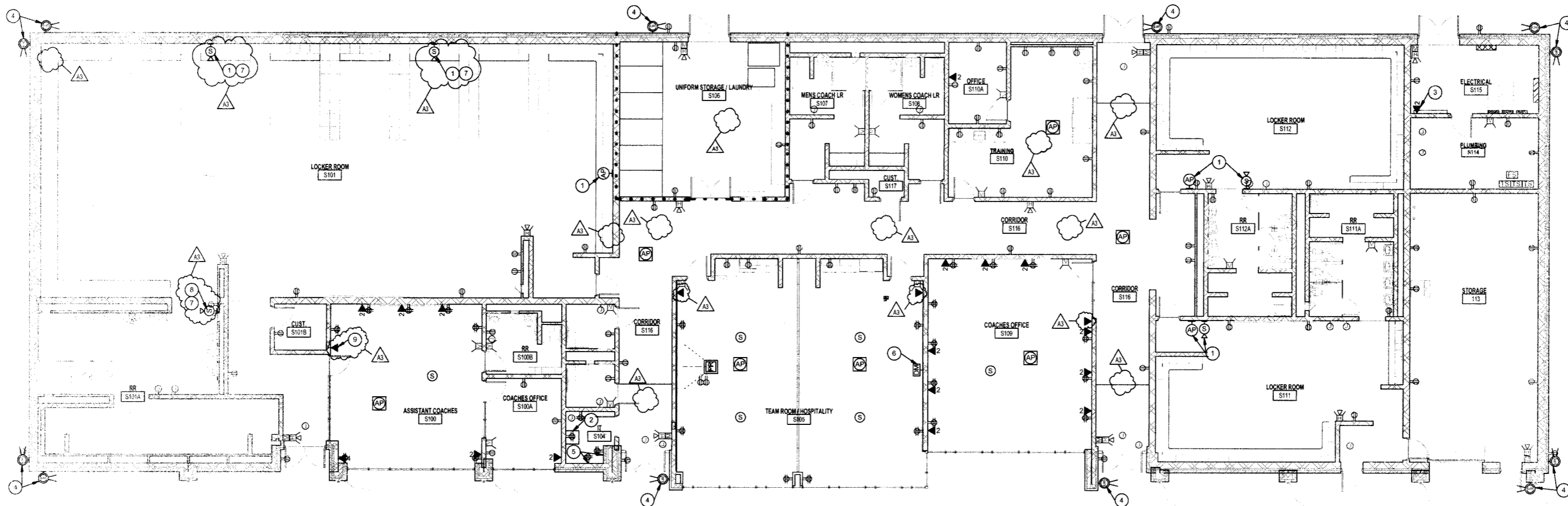
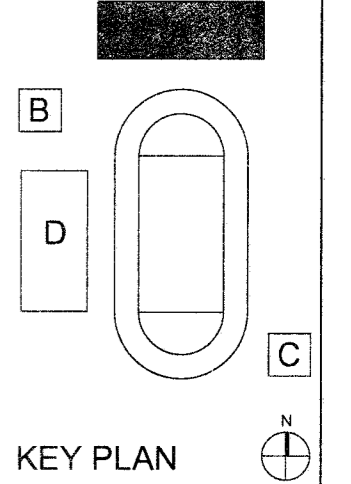


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#	Revision	Date
A3	ADDENDUM 3	05.12.2016

1 FIRST FLOOR TELECOMMUNICATIONS PLAN
1/8" = 1'-0"7300 E. 56th Street
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KEY PLAN

MSD OF
LAWRENCE
TOWNSHIPLC EXTERIOR
FACILITY
UPGRADES - BP2TELECOMMUNICATIONS
PLAN

T-101

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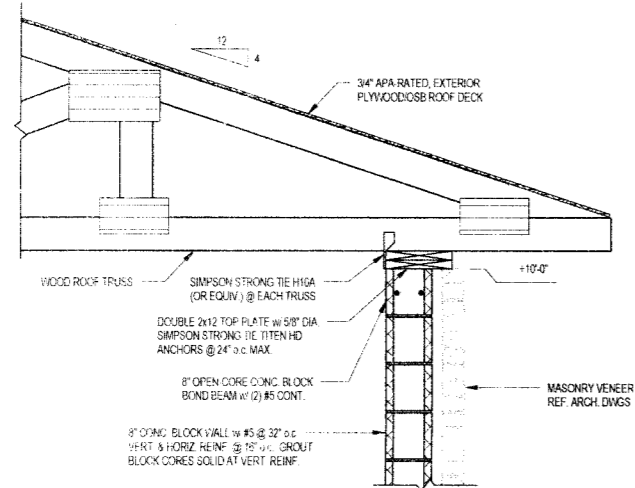
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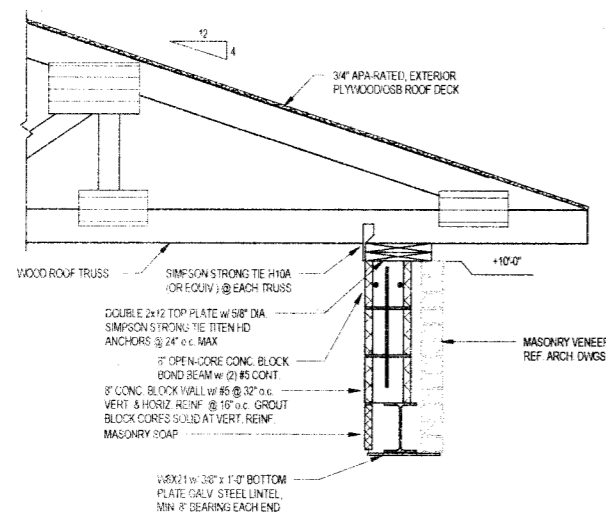
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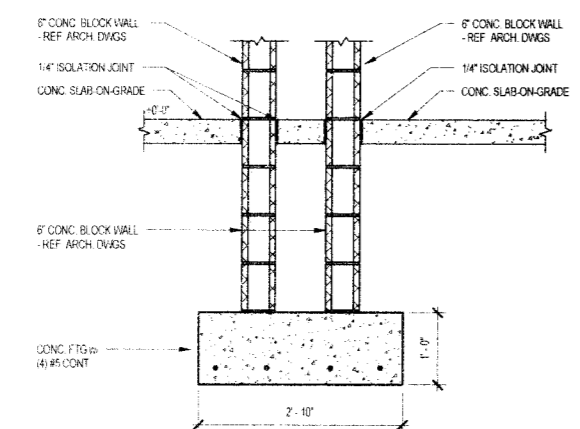
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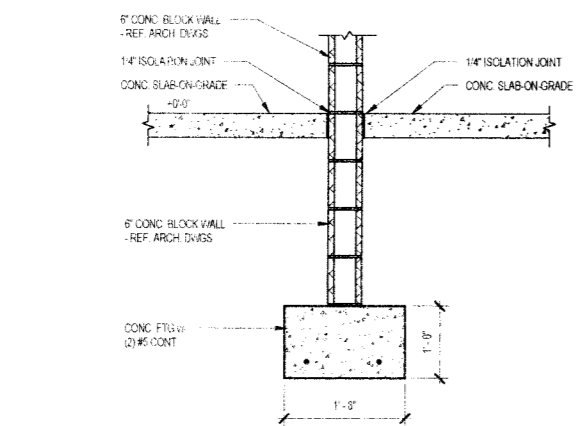
10 SECTION
3/4" = 1'-0"



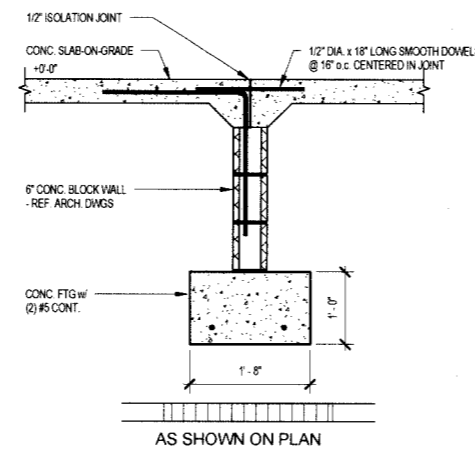
9 SECTION
3/4" = 1'-0"



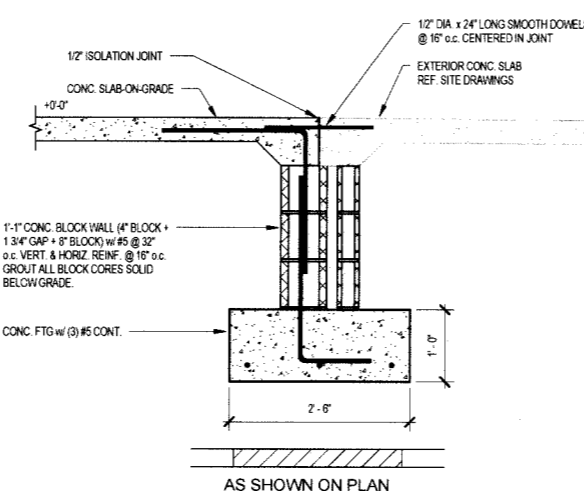
8 SECTION
3/4" = 1'-0"



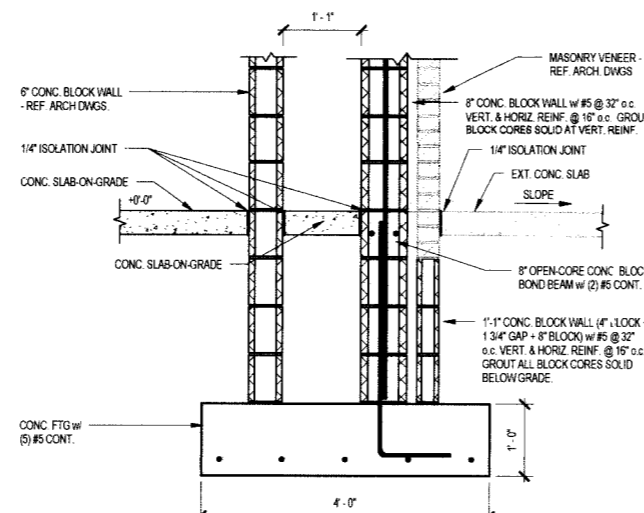
7 SECTION
3/4" = 1'-0"



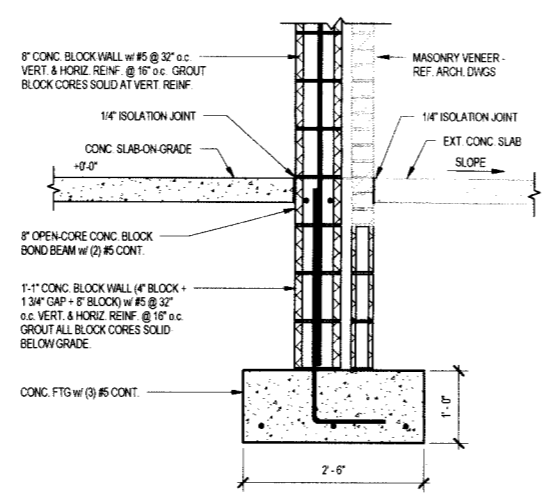
6 SECTION
3/4" = 1'-0"



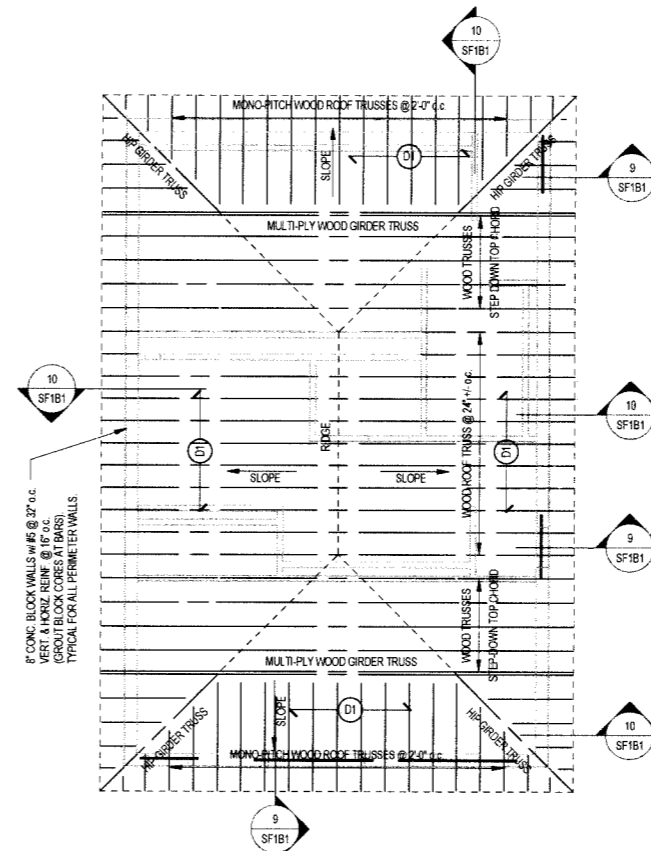
5 SECTION
3/4" = 1'-0"



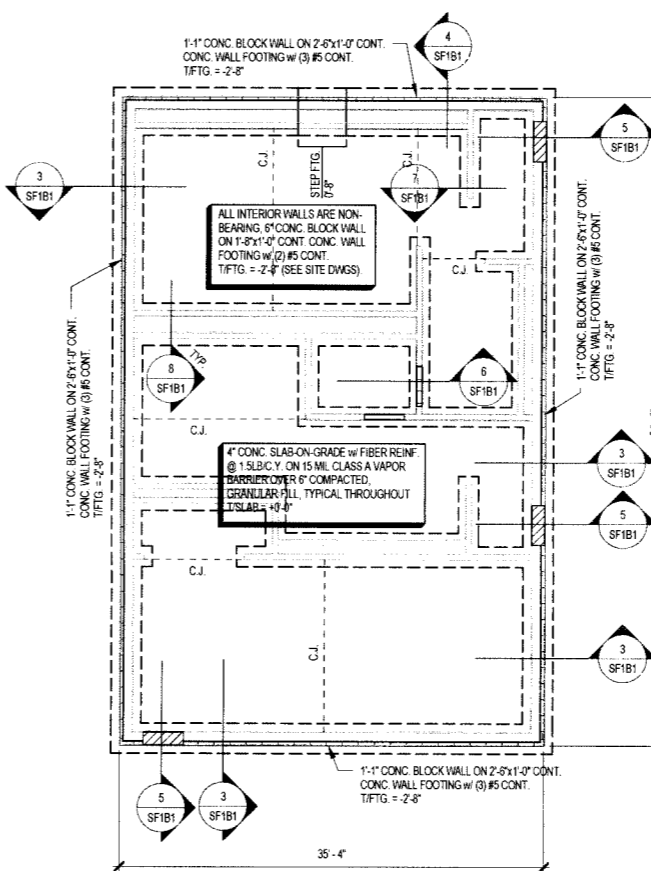
4 SECTION
3/4" = 1'-0"



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



2 ROOF FRAMING PLAN - BUILDING B
1/8" = 1'-0"



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

STRUCTURAL PLAN NOTES

1. ALL CONTRACTORS ARE REQUIRED TO COORDINATE THEIR WORK WITH ALL DISCIPLINES TO AVOID CONFLICT. THE MECHANICAL, ELECTRICAL, AND PLUMBING ASPECTS ARE NOT IN THE SCOPE OF THESE DRAWINGS. THEREFORE, ALL REQUIRED MATERIALS AND WORKMANSHIP NOT BE INDICATED.
2. COORDINATE EXACT SIZE & LOCATION OF ALL MECHANICAL OPENINGS IN FOUNDATION WALLS WITH THE MECHANICAL, ELECTRICAL, AND PLUMBING CONTRACTORS.
3. ALL ELEVATIONS ARE REFERENCED FROM THE FIRST FLOOR FINISH FLOOR ELEVATION = 0'-0" (FINISH FLOOR ELEVATION = 0'-0").
4. REF. ARCH. DRAWINGS FOR ALL DIMENSIONS NOT SHOWN. CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION AND IMMEDIATELY NOTIFY ARCHITECT ENGINEER OF ANY DISCREPANCIES.
5. REF. S-481 FOR TYPICAL FOUNDATION & FRAMING DETAILS.
6. NOTE: PERIMETER WALL AND COLUMN FOOTINGS SHALL BE LOWERED AND/OR SLOPED TO PASS BELOW PLUMBING LINES (I.E. SANITARY & STORM SEWERS, WATER LINES, ETC.) SHOWN ON THE PLUMBING DRAWINGS. PROVIDE FOOTING STEPS AS REQUIRED PER THE TYPICAL DETAILS ON S-481.
7. COORDINATE REINFORCING DOMELS FOR CONCRETE REINFORCING WITH REINFORCING ON PLANS & SECTIONS.
8. GROUT ALL CORES OF CMU BELOW FINISH FLOOR SOLID.
9. COLUMN FOOTINGS, TRENCH FOOTINGS AND WALL FOOTINGS SHALL BEAR ON APPROVED SOIL. UNDERLAY AS REQUIRED TO SUITABLE BEARING MATERIAL, AS DETERMINED BY THE GEOTECHNICAL TESTING AGENCY. REF. TYPICAL FOOTING UNDERLAY DETAIL ON S-481.
10. PROVIDE CONTROL CONTRACTION JOINTS IN SLABS ON GRADE PER THE TYPICAL DETAILS ON SHEET S-481. THE CONTRACTOR SHALL SUBMIT SLAB JOINT LOCATIONS TO ARCHITECT ENGINEER FOR REVIEW PRIOR TO PLACING SLABS.
11. PLAN LEGEND

- 3/4" EXTERIOR GRADE PLYWOOD ROOF DECKING w/ SPACER CLIPS
- FF DENOTES FINISH FLOOR
- T/X DENOTES TOP OF FTG., GRADE BEAM, SLAB, PIER, ETC.
- C/J DENOTES SLAB ON GRADE CONTROL CONTRACTION JOINT
- DENOTES WALL FOOTING WITH STEPS, REF. TYP. DETAIL ON S-481

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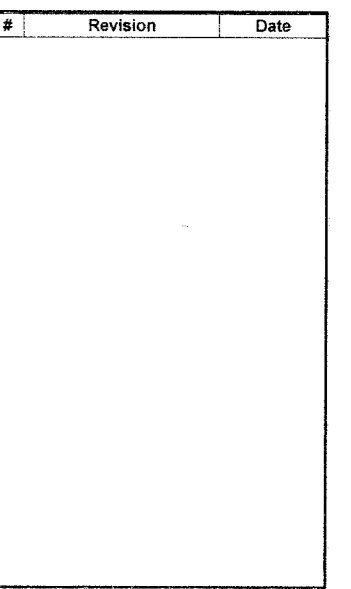
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Project Date 04.18.2016
Produced JNB:WBH



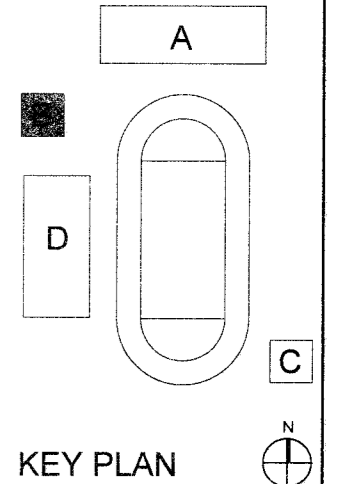
Nady B. Namini

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KEY PLAN

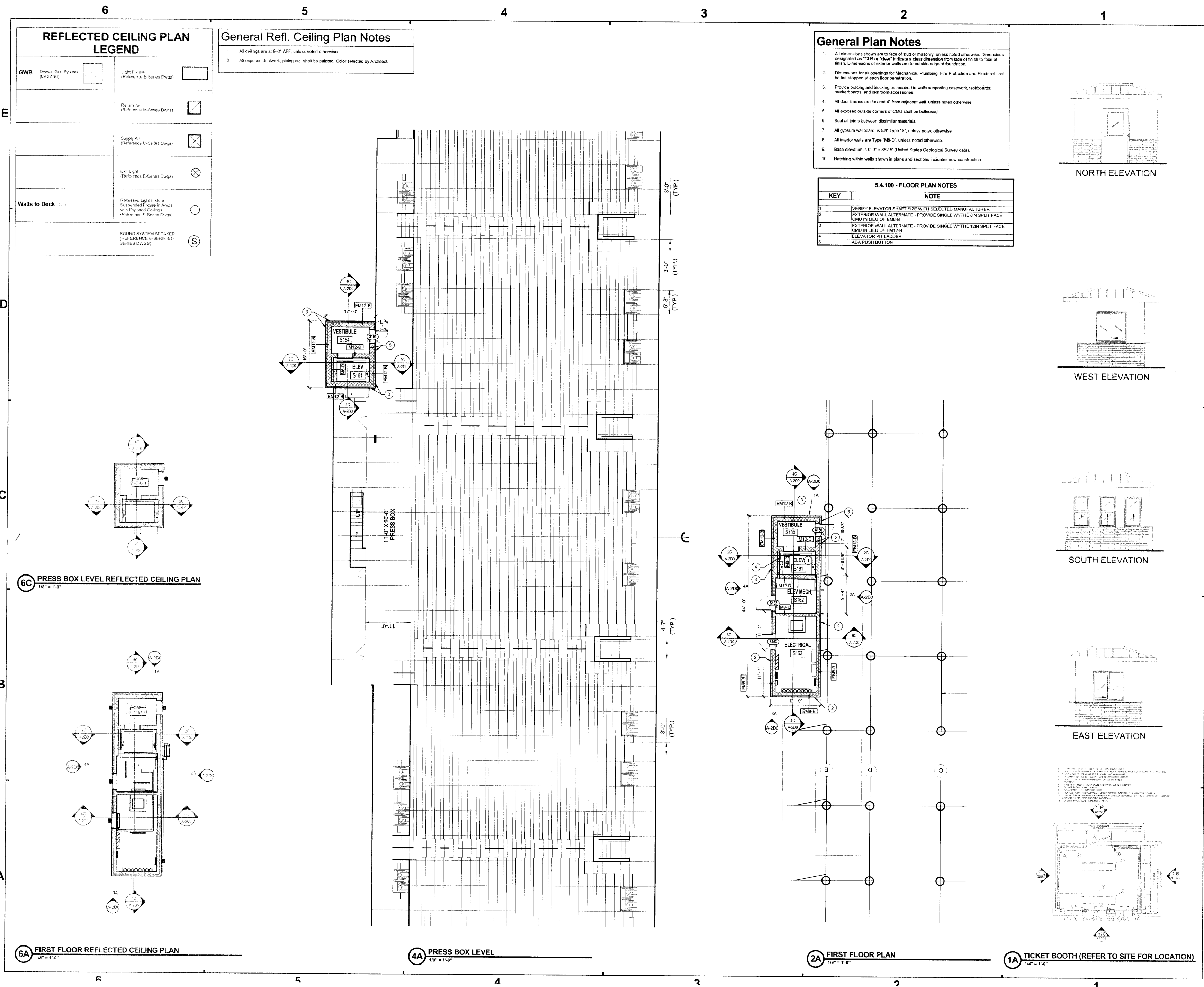
MSD OF
LAWRENCE
TOWNSHIP



LC EXTERIOR
FACILITY
UPGRADES - BP2

FOUNDATION AND
FRAMING PLAN -
BUILDING B

SF1B1



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Project No. 2015-121 LCS
Project Date 04.18.2016
Produced BGB

Professional Seal: **JOHN S. SCHMIDT**, Registered Professional Architect, No. 32631, State of Indiana.

#	Revision	Date

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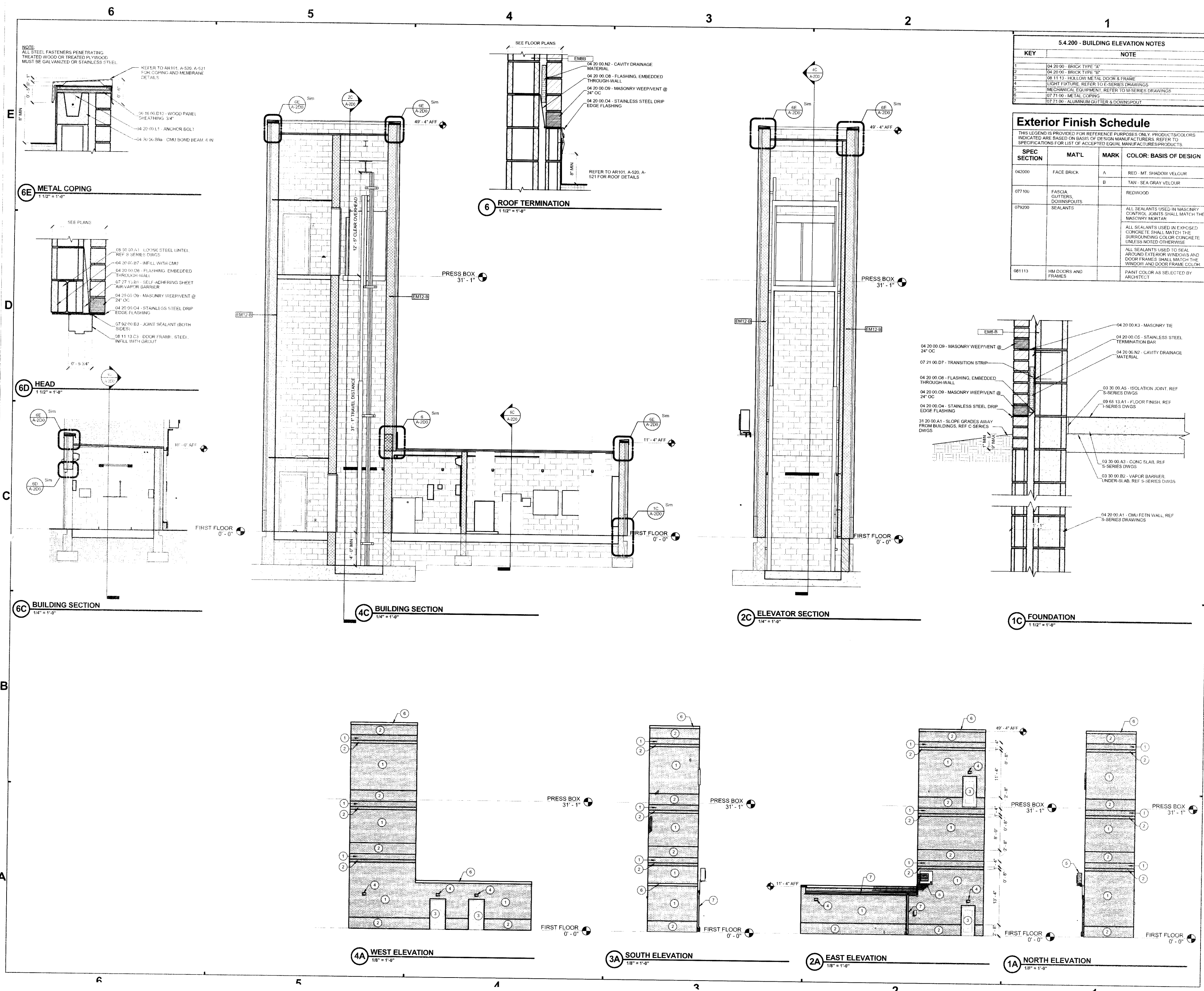
KEY PLAN

MSD OF LAWRENCE TOWNSHIP

LC EXTERIOR FACILITY UPGRADES - BP2

FIRST FLOOR PLAN - UNIT D

AF1D1



5.4.200 - BUILDING ELEVATION NOTES	
KEY	NOTE
1	04 20 00 - BRICK TYPE "A"
2	04 20 00 - BRICK TYPE "B"
3	08 11 13 - HOLLOW METAL DOOR & FRAME
4	LIGHT FIXTURE, REFER TO E-SERIES DRAWINGS
5	MECHANICAL EQUIPMENT, REFER TO M-SERIES DRAWINGS
6	07 71 00 - METAL COPING
7	07 71 00 - ALUMINUM GUTTER & DOWNSPOUT

Exterior Finish Schedule			
THIS LEGEND IS PROVIDED FOR REFERENCE PURPOSES ONLY. PRODUCTS/COLORS INDICATED ARE BASED ON BASIS OF DESIGN MANUFACTURERS REFER TO SPECIFICATIONS FOR LIST OF ACCEPTED EQUAL MANUFACTURES/PRODUCTS.			
SPEC SECTION	MAT'L	MARK	COLOR: BASIS OF DESIGN
042000	FACE BRICK	A	RED - MT. SHADOW VELGUR
		B	TAN - SEA GRAY VELOUR
077100	FASCIA, GUTTERS, DOWNSPOUTS		REDWOOD
079200	SEALANTS		ALL SEALANTS USED IN MASONRY CONTROL JOINTS SHALL MATCH THE MASONRY MORTAR.
			ALL SEALANTS USED IN EXPOSED CONCRETE SHALL MATCH THE SURROUNDING COLOR CONCRETE UNLESS NOTED OTHERWISE.
			ALL SEALANTS USED TO SEAL AROUND EXTERIOR WINDOWS AND DOOR FRAMES SHALL MATCH THE WINDOW AND DOOR FRAME COLOR.
081113	HM DOORS AND FRAMES		PAIN COLOR AS SELECTED BY ARCHITECT

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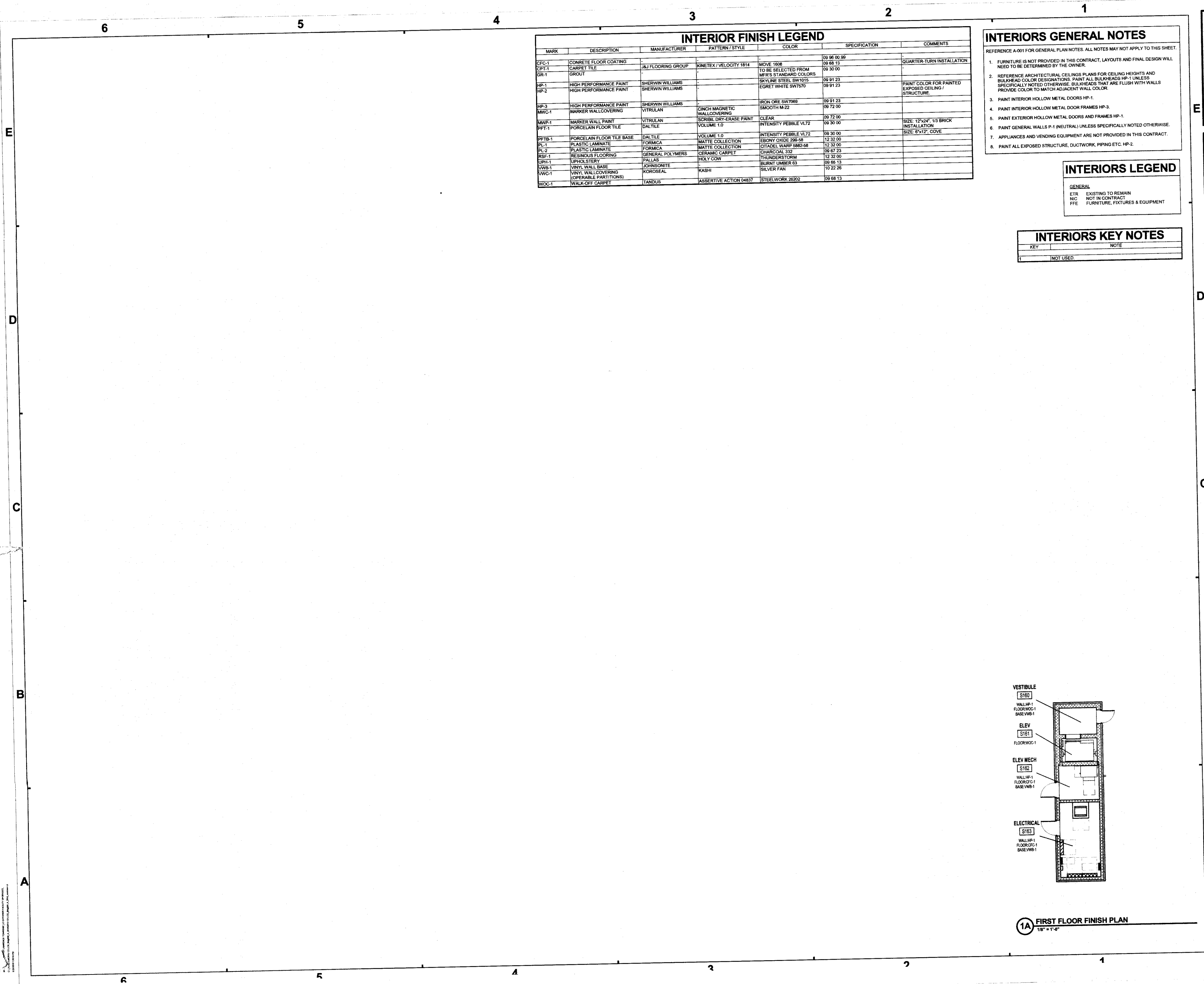
KEY PLAN

MSD OF LAWRENCE TOWNSHIP

LC EXTERIOR FACILITY UPGRADES - BP2

ELEVATIONS & SECTIONS

A-2D0



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Project No. 2015-121 LCS
Project Date 04.18.2016
Produced Designer AEC

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KEY PLAN

MSD OF LAWRENCE TOWNSHIP

LC EXTERIOR FACILITY UPGRADES - BP2

FIRST FLOOR INTERIOR PLAN - UNIT D

IN1D1

MULTI-SPLIT HEAT PUMP CONDENSING SCHEDULE NOTES:

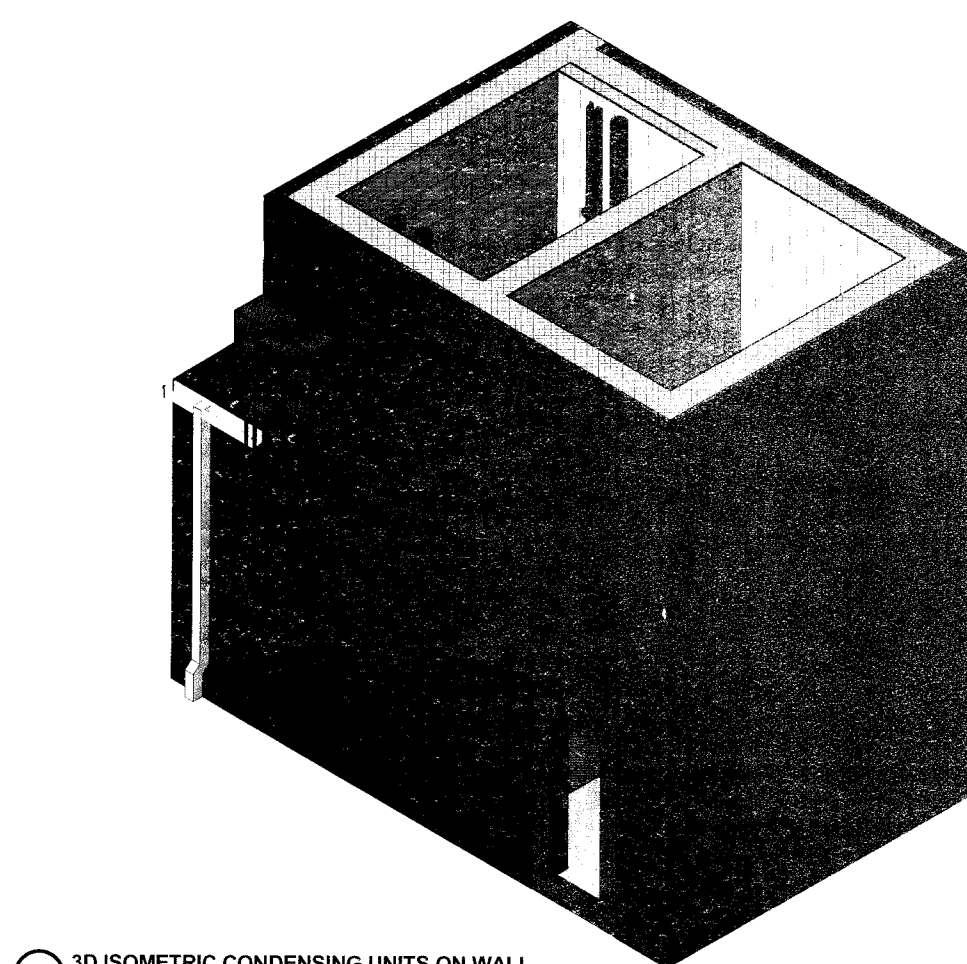
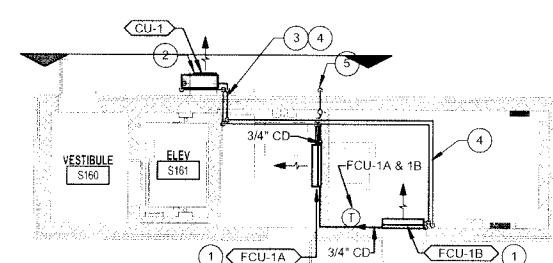
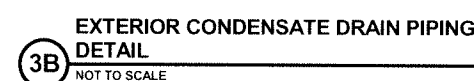
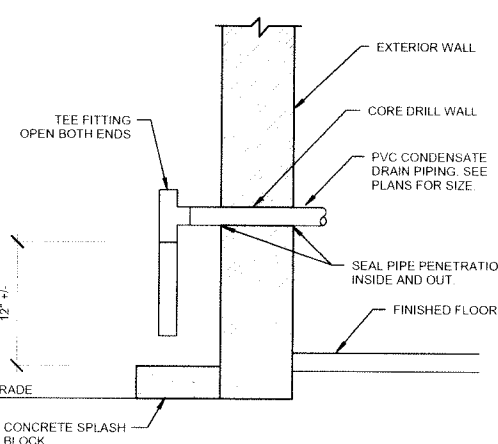
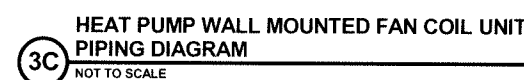
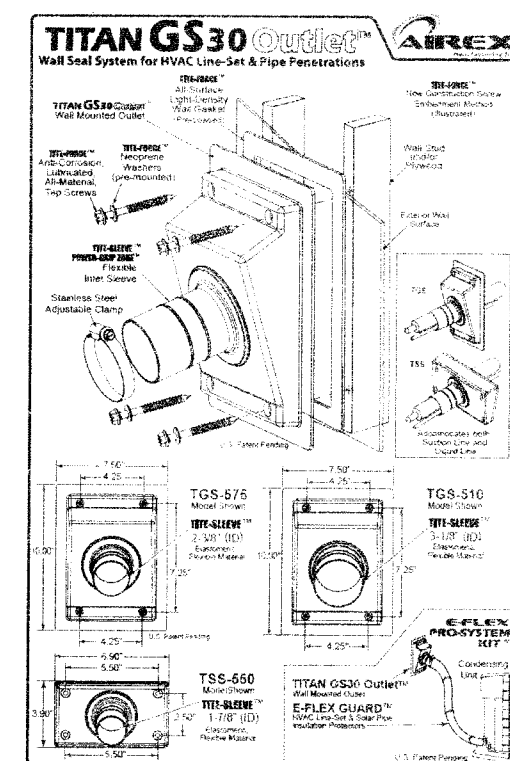
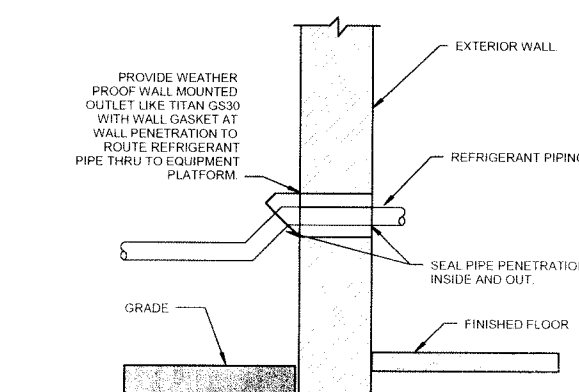
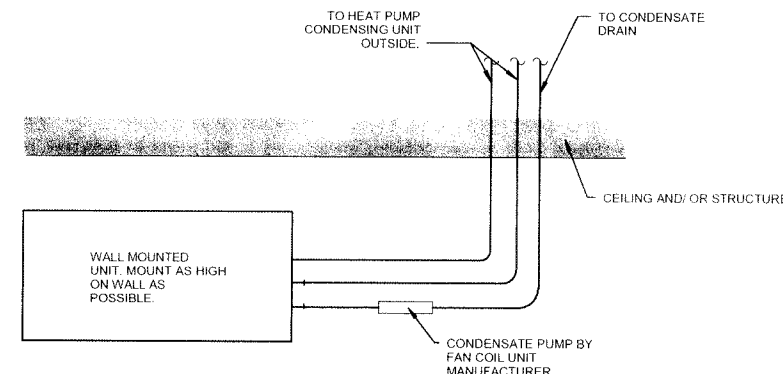
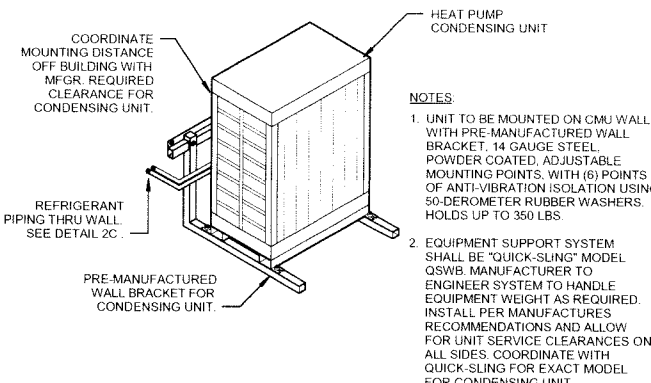
1. COORDINATE LOCATION OF UNIT ON BUILDING EXTERIOR WALL (S) WITH ALL OTHER TRADES AS REQUIRED. HANG DISCHARGE SPLIT BE POINTED AWAY FROM BUILDING.
2. REFERENCE INSTALLATION DETAILS ON THIS SHEET.
3. SPLIT SHALL BE INSTALLED TO THE EXTERIOR WALL BY BRACKET MADE BY QUICKSINK AND COORDINATE EQUIPMENT WITH SUPPORT SYSTEM MANUFACTURER'S REQUIREMENTS FOR CORROSION PROTECTION.
4. SYSTEM TO INCLUDE: A. REFRIGERANT AUTO CHARGING. LEAK CHECK FUNCTION, AND AUTO ADJUSTING FUNCTION.
5. EQUIPMENT CONTRACTOR SHALL COORDINATE REFRIGERANT PIPE ROUTING WITH EQUIPMENT MANUFACTURER.
6. UNIT RATED TOTAL COOLING CAPACITY IS BASED ON OUTDOOR AIR TEMPERATURES: 95°F DB / 75°F WB. MINIMUM 3" AND MAXIMUM 1" FREE WATER.
7. PROVIDE OPERATING WATER DRAIN FOR LOW AMBIENT OPERATION DRAIN TO THE CURB.
8. COORDINATE ELECTRICAL POWER REQUIREMENTS WITH E.C.
9. BOTTOM OF BRACKET SHALL BE MINIMUM 10" ABOVE FINISH FLOOR.

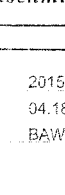


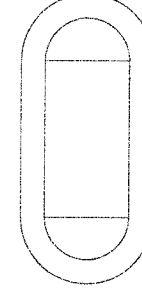

MULTI-SPLIT HEAT PUMP CONDENSING SCHEDULE NOTES:

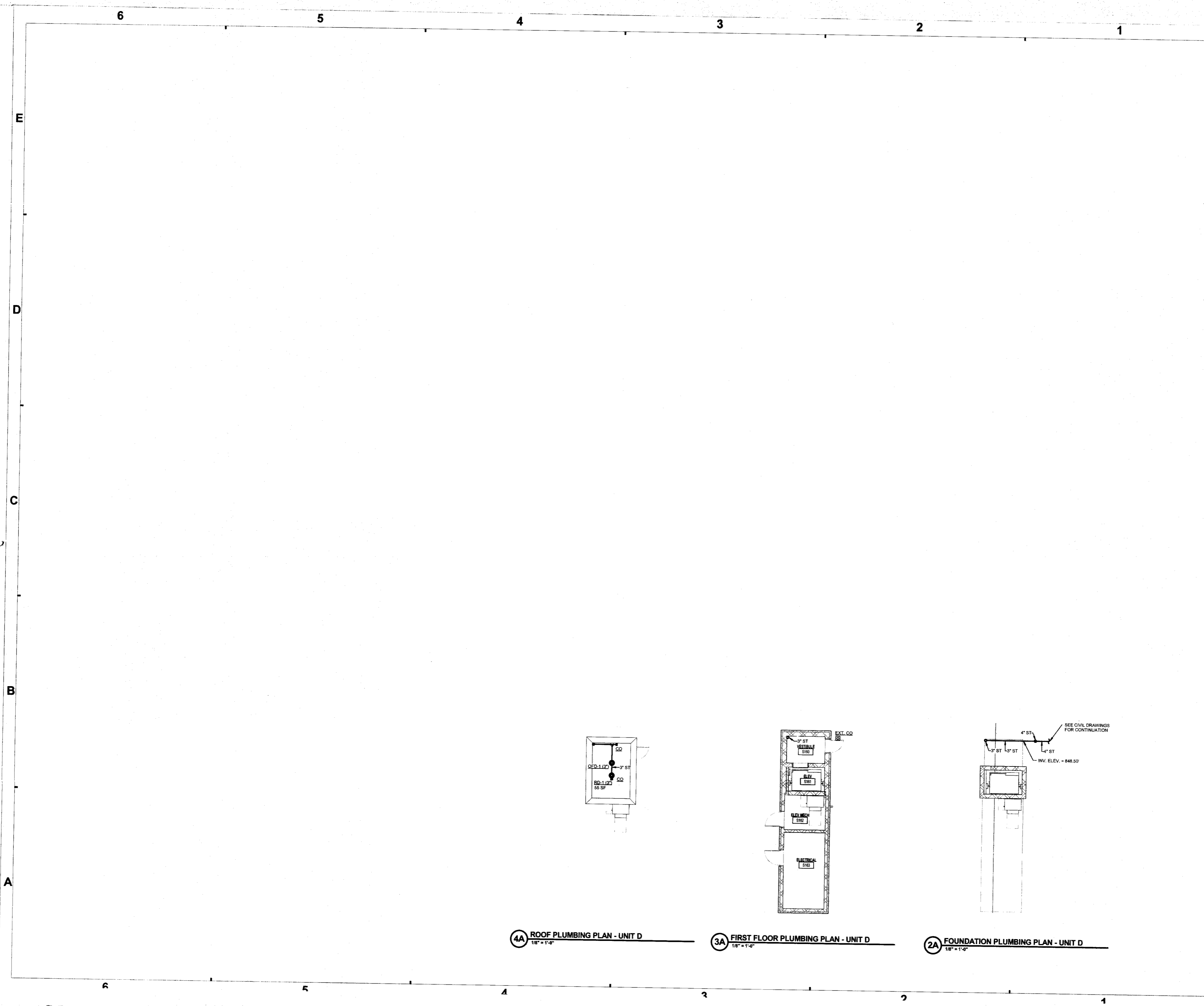
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2. REFERENCE INSTALLATION DETAILS ON THIS SHEET.
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6. UNIT RATED TOTAL COOLING CAPACITY IS BASED ON OUTDOOR AIR TEMPERATURES: 95°F DB / 75°F WB. MINIMUM 3" AND MAXIMUM 1" FREE WATER.
7. PROVIDE OPERATING WATER DRAIN FOR LOW AMBIENT OPERATION DRAIN TO THE CURB.
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MULTI-SPLIT HEAT PUMP CONDENSING SCHEDULE NOTES:

1. COORDINATE LOCATION OF UNIT ON BUILDING EXTERIOR WALL (S) WITH ALL OTHER TRADES AS REQUIRED. HANG DISCHARGE SPLIT BE POINTED AWAY FROM BUILDING.
2. REFERENCE INSTALLATION DETAILS ON THIS SHEET.
3. SPLIT SHALL BE INSTALLED TO THE EXTERIOR WALL BY BRACKET MADE BY QUICKSINK AND COORDINATE EQUIPMENT WITH SUPPORT SYSTEM MANUFACTURER'S REQUIREMENTS FOR CORROSION PROTECTION.
4. SYSTEM TO INCLUDE: A. REFRIGERANT AUTO CHARGING. LEAK CHECK FUNCTION, AND AUTO ADJUSTING FUNCTION.
5. EQUIPMENT CONTRACTOR SHALL COORDINATE REFRIGERANT PIPE ROUTING WITH EQUIPMENT MANUFACTURER.
6. UNIT RATED TOTAL COOLING CAPACITY IS BASED ON OUTDOOR AIR TEMPERATURES: 95°F DB / 75°F WB. MINIMUM 3" AND MAXIMUM 1" FREE WATER.
7. PROVIDE OPERATING WATER DRAIN FOR LOW AMBIENT OPERATION DRAIN TO THE CURB.
8. COORDINATE ELECTRICAL POWER REQUIREMENTS WITH E.C.
9. BOTTOM OF BRACKET SHALL BE MINIMUM 10" ABOVE FINISH FLOOR.



<h1 style="margin: 0;">SCHMIDT</h1>  <h2 style="margin: 0;">ASSOCIATES</h2> <p style="margin: 0;">415 Massachusetts Avenue Indianapolis, Indiana 46204 www.schmidt-arch.com</p>		
Project No.	2015-121 LCS	
Project Date	04.18.2016	
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#	Revision	Date
<p style="text-align: center;">7300 E. 56th Street Indianapolis, IN 46226</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="border: 1px solid black; padding: 5px;">A</div> <div style="border: 1px solid black; padding: 5px;">B</div> <div style="border: 1px solid black; padding: 5px;">D</div> <div style="border: 1px solid black; padding: 5px;">C</div> </div>  <p style="text-align: center;">KEY PLAN</p>		
<p>MSD OF LAWRENCE TOWNSHIP</p>  <p>LC EXTERIOR FACILITY UPGRADES - BP2</p>		
<p>FIRST FLOOR MECHANICAL PLAN - UNIT D</p> <p>MH1D1</p>		



4A ROOF PLUMBING PLAN - UNIT D
1/8" = 1'-0"

3A FIRST FLOOR PLUMBING PLAN - UNIT D
1/8" = 1'-0"

2A FOUNDATION PLUMBING PLAN - UNIT D
1/8" = 1'-0"

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Project No. 2015-121 LNS
Project Date 03.17.2016
Produced CCW / ROP

Professional Seal: State of Indiana, No. 32631, Architect
Signature: [Handwritten Signature]
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7802 Hague Road
Indianapolis, IN 46256

KEY PLAN

MSD OF LAWRENCE TOWNSHIP

LC EXTERIOR FACILITY UPGRADES - BP2

FOUNDATION, FIRST FLOOR, AND ROOF PLUMBING PLANS
PF1D1

DESIGNATION: 12DDP

LOCATION: ELECTRICAL S163

MOUNTING: SURFACE

SUPPLY FROM: 1-D1

POWER DISTRIBUTION PANEL BOARD SCHEDULE

VOLTS: 208Y/120V

PHASES: 3

WIRES: 4

MAINS RATING: 400 A

MAINS TYPE: MCB

MCB RATING: 400 A

MCB RATING: 2200 A

GKT NO	CIRCUIT ROOM #	CIRCUIT TYPE	TRIP POLES			POLES			TRIP	CIRCUIT TYPE	CIRCUIT ROOM #	GKT NO
			250.4	1	1.28	0.00	1.27	0.00				
1	1201											1
2												2
3												3
4												4
5	SPARE		200 A	3	0.00	0.00	0.00	1.33	0.00			5
6												6
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[illegible]

GENERAL POWER NOTES

POWER PLAN NOTES
NOTES

[illegible]

DESIGNATION: 1401

LOCATION: ELECTRICAL S163

MOUNTING: SURFACE

SUPPLY FROM: MCB

VOLTS: 480Y/277 V

PHASES: 3

WIRES: 4

MAINS RATING: 100 A

MAINS TYPE: MCO

MCB RATING: 50,000 A

CKT NO.	CIRCUIT ROOM #	CIRCUIT TYPE	TRIP	POLES	A	B	C	POLES	TRIP	CIRCUIT TYPE	CIRCUIT ROOM #	CKT NO.	
1	EXTERIOR	LIGHTING	20 A	1	0.47	0.17		1	20 A	LIGHTING	S161	2	
2	SITE	LIGHTING	20 A	1		0.37	0.52		1	20 A	LIGHTING	EXTERIOR	4
3	SIDE POLE LIGHTS	LIGHTING	20 A	2				1.37	0.00	1	20 A	SPARE	6
9	SPARE		20 A	1		0.00	0.00		1	20 A	SPARE	8	
11	SPARE		20 A	1				0.00	0.00	1	20 A	SPARE	10
13	SPARE		20 A	1	0.00	0.00				1	20 A	SPARE	12
15	SPARE		20 A	1		0.00	0.00			1	20 A	SPARE	14
17	SPARE		20 A	1				0.00	0.00	1	20 A	SPARE	16
19	SPARE		20 A	1	0.00	0.00				1	20 A	SPARE	18
21	SPARE		20 A	1		0.00	0.00			1	20 A	SPARE	20
23	SPARE		20 A	1				0.00	0.00	1	20 A	SPARE	22
25	SPACE	--	--	--	--	--	--	--	--	--	--	SPACE	24
27	SPACE	--	--	--	--	--	--	--	--	--	--	SPACE	26
29	SPACE	--	--	--	--	0.00	0.00	--	--	--	--	SPACE	28
31	SPACE	--	--	--	0.00	0.00	--	0.00	0.00	--	--	SPACE	30
33	SPACE	--	--	--	--	0.00	0.00	--	--	--	--	SPACE	32
35	SPACE	--	--	--	--	--	--	0.00	0.00	--	--	SPACE	34
37	SPACE	--	--	--	--	--	--	--	--	--	--	SPACE	36
39	SPACE	--	--	--	0.00	0.00	--	--	--	--	--	SPACE	40
41	SPACE	--	--	--	--	--	--	0.00	0.00	--	--	SPACE	42
TOTAL CONNECTED LOAD					2.01 kVA		0.69 kVA		1.37 kVA		40		
TOTAL CONNECTED AMPS					6.2 A		3 A		6 A		42		

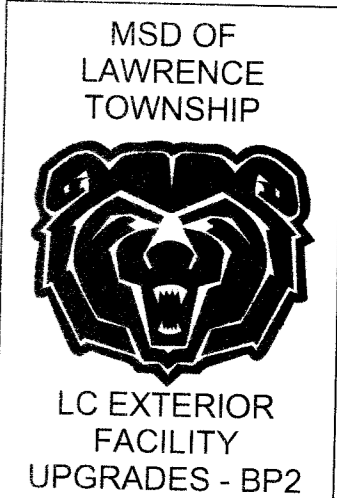
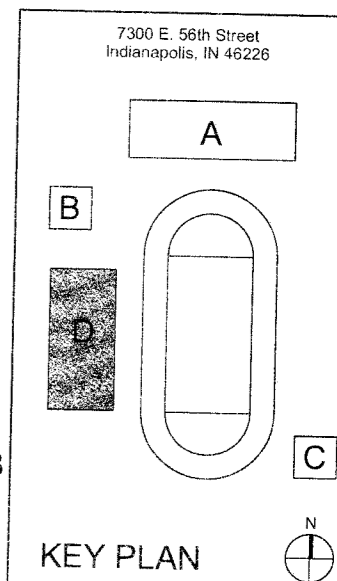
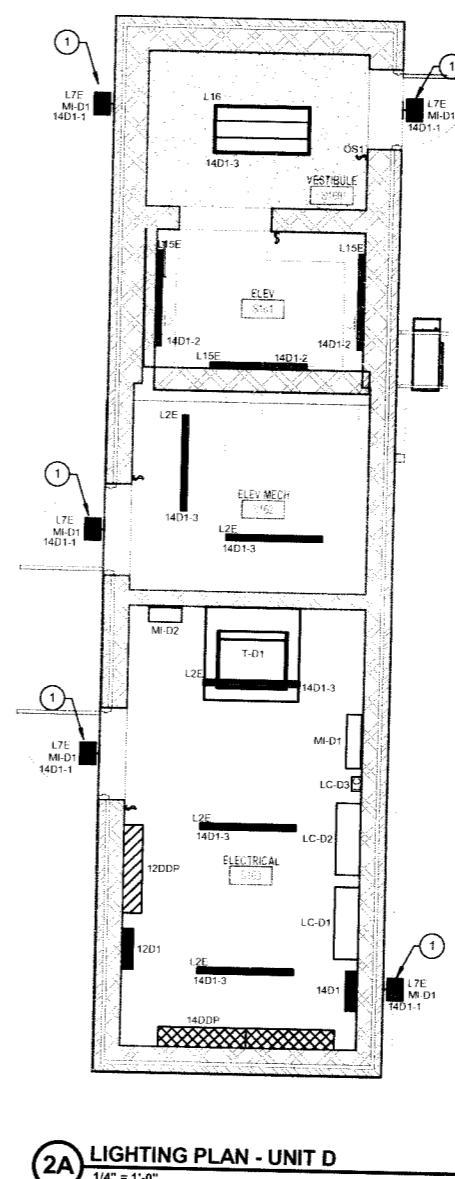
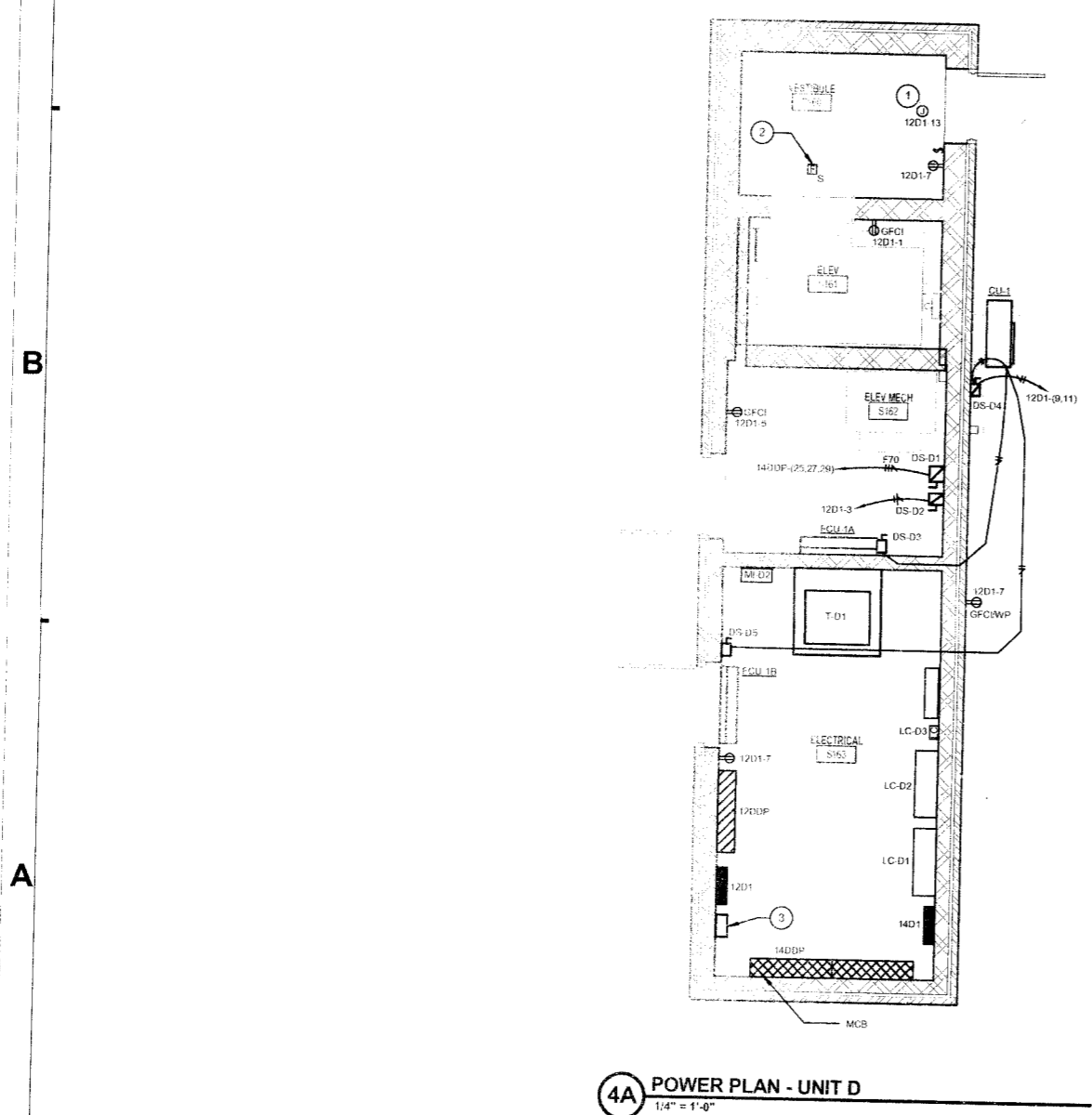
NOTES:

1. MODIFY AIC AS REQUIRED PER SPECIFICATION SECTION 200574.99

2. PROVIDE INTEGRAL SPD

GENERAL LIGHTING NOTES	
#	NOTES

LIGHTING PLAN NOTES



LIGHTING & POWER
PLANS - UNIT D

EL1D1



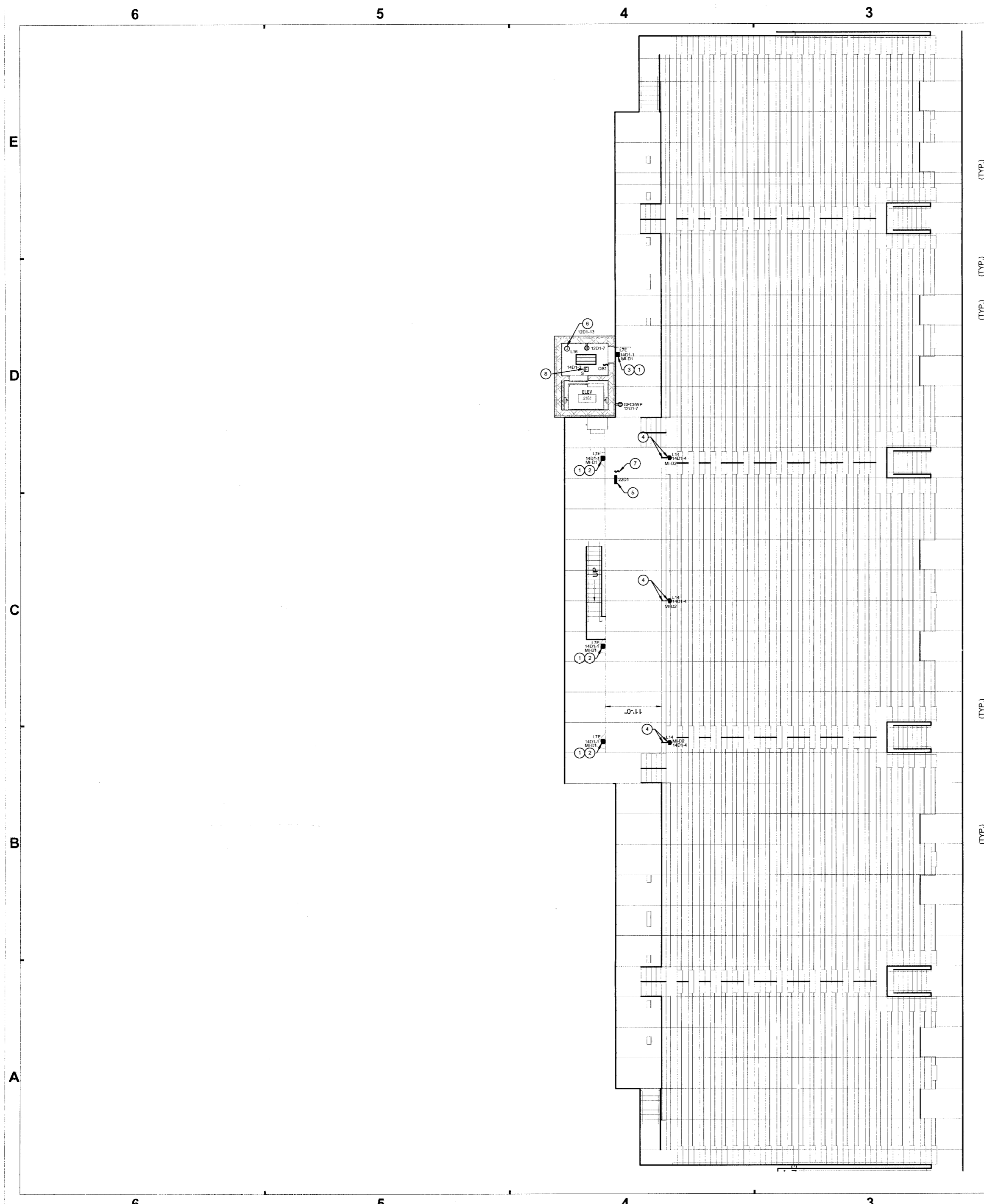
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A1	ADDENDUM NO. 1	04.29.201



GENERAL POWER NOTES	
#	NOTES
A	REFER TO SHEET E-001 FOR ADDITIONAL INFORMATION.

GENERAL LIGHTING NOTES	
#	NOTES
A	REFER TO SHEET E-001 FOR ADDITIONAL INFORMATION.

LIGHTING & POWER PLAN NOTES	
#	NOTES
1	LIGHT FIXTURE CONTROLLED THROUGH LIGHTING CONTACTOR LC-01.
2	FIXTURE MOUNTED ABOVE DOOR TO PRESSBOX.
3	FIXTURE MOUNTED ABOVE ELEVATOR DOOR.
4	FIXTURE MOUNTED TO PRESSBOX WITH 3/4" RISE. COORDINATE LOCATION WITH PRESSBOX PRIOR TO INSTALLATION. INSTALL FIXTURE ABOVE PRESSBOX WINDOWS AND BELOW LANDING GLOSSY PREGAS.
5	VERIFY EXACT LOCATION OF PRESSBOX PANELBOARD WITH PRESS BOX MANUFACTURER.
6	CIRCUIT CONNECTION FOR EAC.
7	SWITCH FOR L14 LIGHTS ON PRESSBOX. VERIFY LOCATION IN PRESSBOX PRIOR TO INSTALLATION.
8	120 VOLT STAND ALONE SMOKE DETECTOR WITH AUXILIARY CONTACTS FOR LIGHTING REC.

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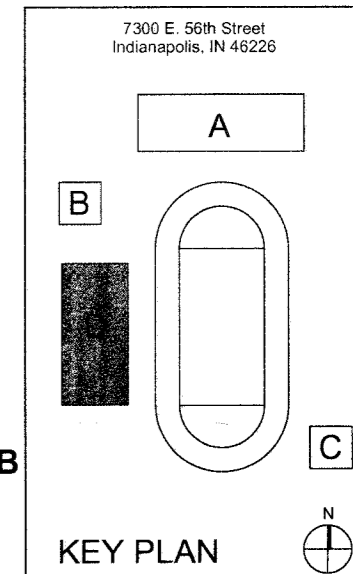
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#	Revision	Date
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MSD OF
LAWRENCE
TOWNSHIP



A LC EXTERIOR
FACILITY
UPGRADES - BP2

LIGHTING & POWER
PLANS -
PRESSBOX/BLEACHERS
EL1D2