

Art Warehouse Renovation

313 NE 3rd Street, Delray Beach, Florida 33444

Revision Schedule		
Number	Date	Description
1	8/21/ 2015	Bldg. Dept. comments



ARCHITECT

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McCARTHY AND ASSOCIATES

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Delray Beach, Florida 33483
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M.E.P. ENGINEER:

THOMPSON AND YOUNGROSS ENGINEERING CONSULTANTS

902 CLINT MOORE ROAD, SUITE 142
BOCA RATON, FLORIDA 33487
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CIVIL ENGINEER:

ENVIRODESIGN ASSOCIATES, INC.

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FAX: 561 274-8558

LANDSCAPE ARCHITECT:

DAVE BODKER LANDSCAPE ARCHITECTURE

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FAX: 561 276-3869

DRAWING LIST

SHEET #	SHEET NAME
LS1.00	GENERAL NOTES/ LEGENDS/ BLDG DATA
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LS1.02	SECOND FLOOR LIFE SAFETY PLAN
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EX-A2.01	EXISTING FLOOR PLAN
EX-A3.01	EXISTING EXTERIOR ELEVATIONS
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A4.02	ENLARGED PLANS
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A5.01	INTERIOR ELEVATION
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A6.02	REFLECTED CEILING PLAN
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A7.02	SECTIONS
A7.03	SECTIONS
A7.04	SECTIONS
A8.01	WALL TYPES
A8.02	DETAILS
A8.03	LOUVER DETAILS
A8.04	WINDOW DETAILS
A8.05	CASEWORK DETAILS
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STRUCTURAL

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S1.0	FOUNDATION PLAN
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E-1.1	FIRST FLOOR PLAN ELECTRICAL
E-1.2	SECOND FLOOR PLAN ELECTRICAL
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MECHANICAL

M-0.1	MECHANICAL NOTES
M-1.1	FIRST FLOOR PLAN MECHANICAL
M-1.2	SECOND FLOOR PLAN MECHANICAL
M-2.1	MECHANICAL DETAILS

PLUMBING

P-0.1	PLUMBING NOTES
P-1.1	FIRST FLOOR PLAN PLUMBING
P-1.2	SECOND FLOOR PLAN PLUMBING
P-2.1	PLUMBING ISOMETRIC DIAGRAMS
P-3.1	PLUMBING DETAILS

FIRE PROTECTION

FS-0.1	FIRE SPRINKLER NOTES LEGEND & SCHEDULE
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FS-1.2	SECOND FLOOR PLAN FIRE SPRINKLER

FIRE ALARM

FA-0.1	FIRE ALARM NOTES & LEGEND
FA-1.1	FIRST FLOOR FIRE ALARM PLAN
FA-1.2	SECOND FLOOR FIRE ALARM PLAN

SURVEY

1 OF 1	BOUNDARY & TOPOGRAPHIC SURVEY
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CIVIL

1 OF 6	PAVING & DRAINAGE PLAN
2 OF 6	PAVING & DRAINAGE DETAILS
3 OF 6	PAVING & DRAINAGE DETAILS
4 OF 6	PAVING & DRAINAGE DETAILS
5 OF 6	WATER & WASTEWATER DETAILS
6 OF 6	POLLUTION PREVENTION PLAN

LANDSCAPE

L-1	PLANTING PLAN
L-2	SPECIFICATIONS, DETAILS, NOTES
I-1	IRRIGATION PLAN



1 Vicinity Map
SCALE: NTS



DELRAY BEACH CRA
COMMUNITY REDEVELOPMENT AGENCY

CRA OFFICIALS
CHAIRMAN
VICE-CHAIR
FIRST VICE-CHAIR
TREASURER
COMMISSIONER
COMMISSIONER
COMMISSIONER

HERMAN STEVENS
ANNETTE GRAY
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KEYS AND SYMBOLS

LOBBY
101

ROOM NAME/NUMBER

GRAPHIC SCALE
0' 30' 75' 100'

DETAIL KEY
3 A4.01

NORTH ARROW

COLUMN LINE

ABBREVIATIONS

@	ANCHOR BOLT	AT	ANCHOR BOLT
A.B.	ACOUSTICAL	ALT.	ALTERNATE
ALUM.	ALUMINUM	ARCH.	ARCHITECTURAL
BD.	BOARD	BLDG.	BUILDING
B.O.	BOTTOM OF		
CEIL./CLG	CEILING		
C.J.	CONTROL JOINT		
CL	CENTERLINE		
CLO.	CLOSET		
CMU	CONCRETE MASONRY UNIT		
CONC.	CONCRETE		
CONT.	CONTINUOUS		
D.F.	DRINKING FOUNTAIN		
DIA.	DIAMETER		
DIM.	DIMENSION		
DN.	DOWN		
D.S.	DOWN SPOUT		
DWG.	DRAWING		
EA.	EACH		
EQ.	EQUAL		
EXIST.	EXISTING		
EXT.	EXTERIOR		
F.D.	FLOOR DRAIN		
F.E.C.	FIRE EXTING. CABINET		
GA.	GAUGE		
G.C.	GENERAL CONTRACTOR		
GALV.	GALVANIZED		
GYP. BD.	GYPSUM BOARD		
H.C.	HANDICAPPED		
H.M.	HOLLOW METAL		
INSUL.	INSULATION		
INT.	INTERIOR		
LAV.	LAVATORY		
MAX.	MAXIMUM		
MEP	MECHANICAL, ELECTRICAL & PLUMBING		
MIN.	MINIMUM		
MISC.	MISCELLANEOUS		
M.O.	MASONRY OPENING		
N	NORTH		
N.I.C.	NOT IN CONTRACT		
N.T.S.	NOT TO SCALE		
O.C.	ON CENTER		
O.D.	OUTSIDE DIAMETER		
OPP.	OPPOSITE		
PROV.	PROVIDED		
PSF.	POUNDS PER SQUARE FOOT		
PSI	POUNDS PER SQUARE INCH		
R.	RADIUS		
R.D.	ROOF DRAIN		
REBAR	REINFORCING BARS		
REQ.	REQUIRED		
R.W.L.	RAIN WATER LEADER		
R.O.W.	RIGHT OF WAY		
S.C.	SOLID CORE		
SPECS.	SPECIFICATIONS		
T.O.	TOP OF		
TYP.	TYPICAL		
V.C.T.	VINYL COMPOSITION TILE		
W/	WITH		
WD.	WOOD		

ADA FIGURES

FIG. 1 WHEELCHAIR TURNING SPACE
60-IN. (1525-MM) DIAMETER SPACE

FIG. 2 FORWARD REACH
HIGH FORWARD REACH LIMIT
MAXIMUM FORWARD REACH OVER AN OBSTRUCTION

FIG. 3 ACCESSIBLE ROUTE
TURNS AROUND AN OBSTRUCTION
CHANGES IN LEVEL

FIG. 4 CLEAR DOORWAY WIDTH AND DEPTH
HINGED DOOR
SLIDING DOOR
FOLDING DOOR
MAXIMUM DOORWAY DEPTH

FIG. 5 MANEUVERING CLEARANCE AT DOORS
FRONT APPROACHES - SWINGING DOORS
HINGE SIDE APPROACHES - SWINGING DOORS

FIG. 6 (A) STRIPS AND GROOVES USED AS DETECTABLE WARNINGS ON WALKING SURFACES
SECTION (A)
SECTION (B)

GENERAL PROJECT DATA:

PROJECT LOCATION: 313 NE 3RD STREET DELRAY BEACH FLORIDA 33444

PROJECT SUMMARY: THE INTENTION IS TO CONVERT THIS WAREHOUSE TO AN ART AND CULTURAL VENUE FOR THE CITY OF DELRAY BEACH. THE SMALL STRUCTURE ON THE SOUTH SIDE WILL BE REMOVED AND A NEW ICONIC ENTRY BUILT IN ITS PLACE. BRICK PAVERS, AND FOUR PARKING SPACES WILL BE ADDED ALONG WITH A DUMPSTER AND HANDICAP RAMP. THE INTERIOR WILL HOUSE ADMINISTRATION OFFICES, A CLASS ROOM, COFFEE SHOP/CATERING KITCHEN, EXHIBITION SPACE, AND AN OPEN FLEXIBLE AREA ALONG WITH PUBLIC TOILETS AND STORAGE.

APPLICABLE BUILDING CODES

FLORIDA BUILDING CODE	2010	NFPA 101 LIFE SAFETY CODE, FL EDITION	2012
FLORIDA MECHANICAL CODE	2010		
NATIONAL ELECTRICAL CODE, FL EDITION	2008	NFPA 1 FIRE CODE, FL 5TH EDITION	2012
FLORIDA PLUMBING CODE	2010	FLORIDA ACCESSIBILITY CODE	2012
FLORIDA EXISTING BUILDING CODE	2010	LOCAL AMENDMENTS: --	

WALL FIRE RATING LEGEND

1 HR. FIRE RATED

THIS BUILDING IS NOT A THRESHOLD BUILDING PER FBC 2010 SEC. 202. A SPECIAL THRESHOLD INSPECTOR WILL BE RETAINED IF IT IS CLASSIFIED AS ONE BY THE BUILDING DEPT.

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EGRESS DATA (SPRINKLERED)

	MAX.		MIN.	
	TRAVEL DIST.	DEAD END	CORRIDOR WIDTH	MIN. CLEAR OPG. EXIT DOORS
ASSEMBLY (A-3)	250'	20'	44"	32"
BUSINESS (B)	300'	20'	44"	32"
EDUCATIONAL (E)	200	20'	44"	32"
FACTORY (F-1)	400	20'	44"	32"
STORAGE (S-2)	200	20'	44"	32"

TABLE 601 STRUCTURAL FRAME (COLUMNS, TRUSSES)

STRUCTURAL FRAME (COLUMNS, TRUSSES)	0 HR
EXTERIOR BEARING WALLS	0 HR*
EXTERIOR NON-BEARING WALLS	0 HR*
INTERIOR BEARING	0 HR**
INTERIOR NON-BEARING	0 HR**
FLOOR CONSTRUCTION	0 HR
ROOF CONSTRUCTION	0 HR

*RATING BASED ON SEPARATION DISTANCE PER TABLE 602 10' < X < 20' SEPARATION 0 HR
20+ SEPARATION FROM ADJACENT BUILDING 0 HR

**RATING BASED ON OCCUPANCY SEPARATION PER FBC T508.4 NONE REQ'D- NON SEPARATED BLDG

INSULATION:

UNLESS OTHERWISE NOTED IN THE DRAWINGS PROVIDE THE FOLLOWING INSULATION:

- WALLS- R-5 RIGID INSULATION BOARD EXTENDED TO THE BOTTOM OF THE ROOF STRUCTURE
- ROOF- MINIMUM R-19 LIGHTWEIGHT INSULATING CONCRETE
- GLASS- MINIMUM 0.85 U VALUE AND .47 SHGC

CODE ANALYSIS:

FLORIDA BUILDING CODE - NEW BUILDING:

NEW AREA :	1ST LVL.	2ND LVL.	TOTAL
ASSEMBLY	4,139	0	4,139 SF
BUSINESS	683	0	683 SF
EDUCATIONAL	376	0	376 SF
FACTORY	7,096	2,514	9,610 SF
STORAGE	910	68	978 SF
STAIRS/ELEVATOR/LOBBY	209	775	984 SF
TOTALS	13,413	3,357	16,770 SF TOTAL

ALTERATION LEVEL: 3
OCCUPANCY: MIXED USE: ASSEMBLY A-3 BUSINESS (B) EDUCATIONAL (E) FACTORY (F-1) STORAGE (S-2)

REVISIONS

NUM.	DESCRIPTION	DATE
1	Bldg. Dept. comments	8/21/2015
2	Bldg. Dept. comments	10/23/2015

PLUMBING FIXTURE CALCULATIONS

REQUIRED	MEN		WOMEN		DRK. FOUNT.	SERVICE SINK
OCCUPANCY (OCCUPANTS)	TOILETS	URINALS	LAV.'S	TOILETS	LAV.'S	
ASSEMBLY A-3 (562)	281/125 = 2.25	--	281/200 = 1.4	281/65 = 4.3	562/500 = 1.1	1
BUSINESS B (7)	4/25 = .16	--	4/40 = 0.1	4/40 = 0.1	7/100 = 0.07	--
EDUCATIONAL E (8)	4/50 = 0.08	--	4/50 = 0.08	4/50 = 0.08	8/100 = 0.08	1
FACTORY F-1 (97)	49/100 = 0.49	--	49/100 = 0.49	49/100 = 0.49	97/400 = 0.24	1
STORAGE S-2 (2)	1/100 = 0.01	--	1/100 = 0.01	1/100 = 0.01	2/1000 = 0.02	1
TOTAL REQUIRED	2.99	--	2.08	4.98	1.51	4
PROVIDED	2	1	3	5	2	23

313 NE 3rd Street, Delray Beach, Florida 33444

PERMIT SET 6/29/2015

GENERAL NOTES/ LEGENDS/ BLDG DATA

DATE: 6/29/2015 | DRAWN BY: MM

JOB NUMBER: 100701

DRAWING NUMBER: LS1.00



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ISSUED FOR:

SPRAB 3/05/2015

BIDS

PERMIT 6/29/2015

CONSTRUCTION

SEAL

PROJECT TITLE

Art Warehouse
Renovation

313 NE 3rd Street, Delray
Beach, Florida 33444

REVISIONS

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3	Bldg. Dept. Crmnts	12/28/2015

THESE DRAWINGS ARE PREPARED PER ESTABLISHED INDUSTRY STANDARDS AND REPRESENT THE ARCHITECT AND ENGINEERS DESIGN CONCEPT. THEY ARE NOT INTENDED TO PROVIDE EVERY DETAIL OR CONDITION REQUIRED TO CONSTRUCT THE BUILDING. THE CONTRACTOR THROUGH SUBMITTALS AND OTHER COORDINATION EFFORTS IS FULLY RESPONSIBLE FOR PROVIDING A COMPLETE AND OPERATIONAL BUILDING WHETHER INDICATED ON THE PLANS OR NOT.

DRAWING TITLE

FIRST FLOOR LIFE
SAFETY PLAN

DATE

6/29/2015

DRAWN BY

MM

JOB NUMBER

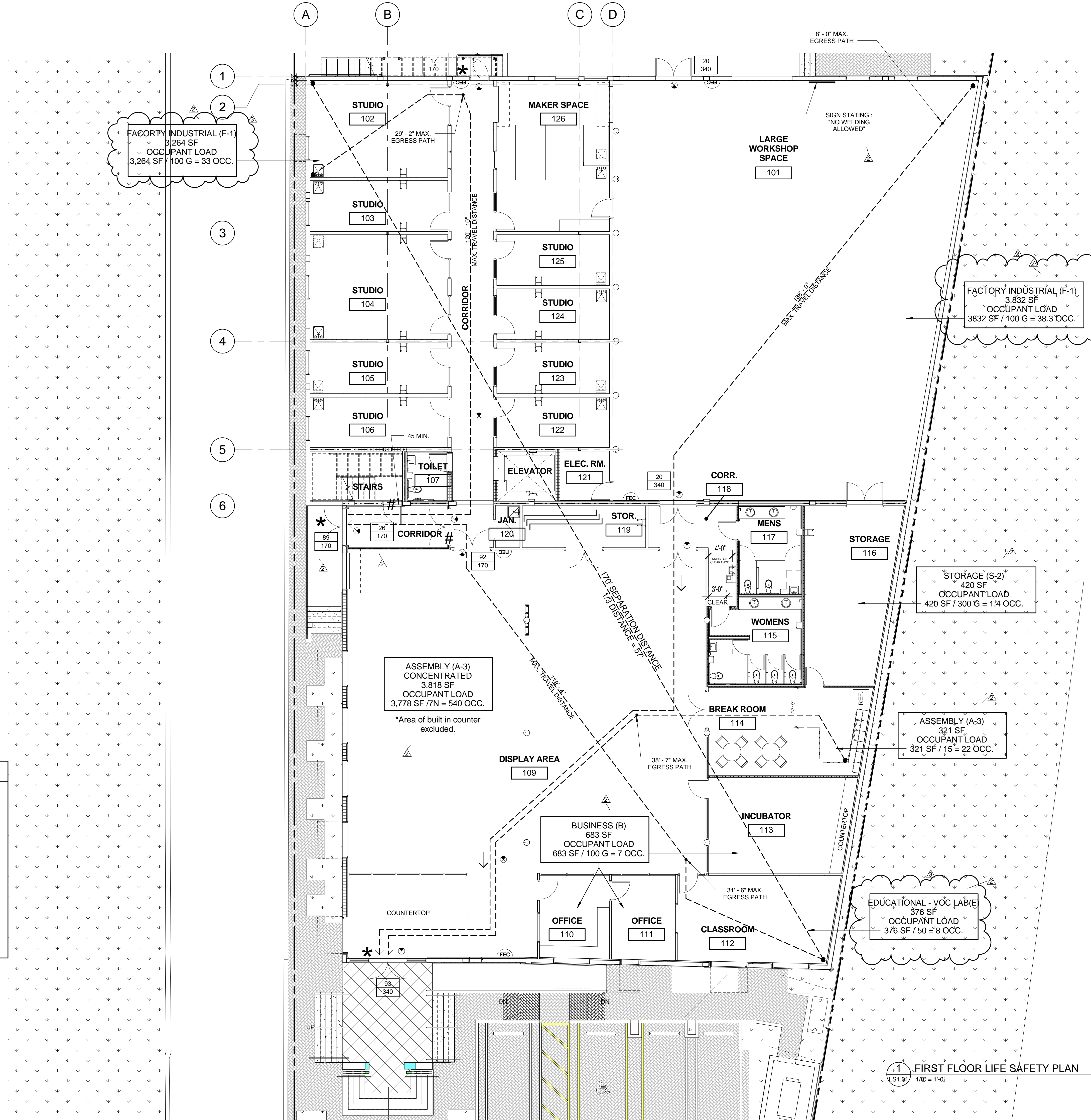
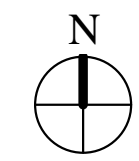
100701

DRAWING NUMBER

LS1.01

PERMIT SET 6/29/2015

1 FIRST FLOOR LIFE SAFETY PLAN
LS1.01 1/8" = 1'-0"



FACTORY INDUSTRIAL (F-1)
3,264 SF
OCCUPANT LOAD
3,264 SF / 100 G = 33 OCC.

FACTORY INDUSTRIAL (F-1)
3,832 SF
OCCUPANT LOAD
3832 SF / 100 G = 38.3 OCC.

STORAGE (S-2)
420 SF
OCCUPANT LOAD
420 SF / 300 G = 1.4 OCC.

ASSEMBLY (A-3)
321 SF
OCCUPANT LOAD
321 SF / 15 = 22 OCC.

EDUCATIONAL - VOC LAB (E)
376 SF
OCCUPANT LOAD
376 SF / 50 = 8 OCC.

ASSEMBLY (A-3)
CONCENTRATED
3,818 SF
OCCUPANT LOAD
3,778 SF / 7N = 540 OCC.
*Area of built in counter
excluded.

BUSINESS (B)
683 SF
OCCUPANT LOAD
683 SF / 100 G = 7 OCC.

LIFE SAFETY KEY

- NUMBER OF PERSONS EXITING
EGRESS CAPACITY OF DOOR/STAIR
- 52' - MAXIMUM PATH OF EGRESS
START POINT
- OCCUPANCY TYPE
SF
OCCUPANT LOAD
- SQUARE FOOTAGE / 1000.11 REQ'D
SF. PER OCC. = OCCUPANT LOAD FOR
AREA
- SEMI-RECESSED FIRE EXTINGUISHER CABINET
- DOOR EQUIPPED WITH PANIC HARDWARE
- DOOR EQUIPPED WITH FIRE EXIT HARDWARE
- EXIT SIGN (SEE ELECTRICAL PLANS)

EGRESS DATA FL. BC. 2010

FL. BC. 2010	MIN/MAX
TRAVEL DISTANCE	160' - 1' MAX.
COMMON PATH OF TRAVEL	38' - 7' MAX.
MAX. DEAD END	--

EGRESS WIDTH	REQ.	PROV.
STAIR WIDTH	44" MIN.	48"
DOORS	32" MIN.	36"
MIN. CORRIDOR WIDTH	44" MIN.	70" MIN.

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ISSUED FOR :
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CONSTRUCTION
SEAL

PROJECT TITLE
**Art Warehouse
Renovation**

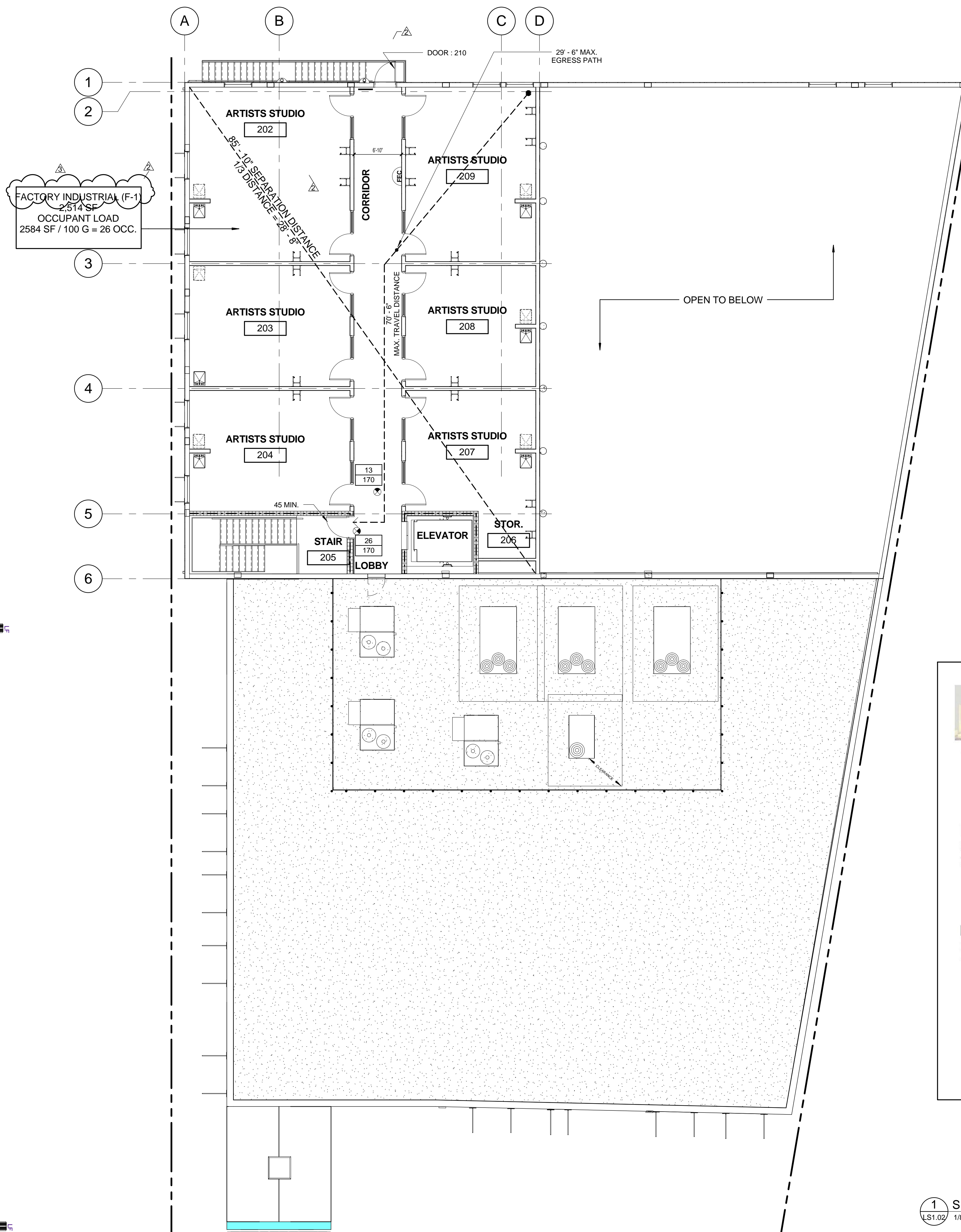
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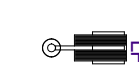
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DATE: 6/29/2015
DRAWN BY: MM
JOB NUMBER: 100701
DRAWING NUMBER: LS1.02

PERMIT SET 6/29/2015



FACTORY INDUSTRIAL (F-1)
2,514 SF
OCCUPANT LOAD
2584 SF / 100 G = 26 OCC.



LIFE SAFETY KEY

- NUMBER OF PERSONS EXITING
- EGRESS CAPACITY OF DOOR/STAIR
- 52' - - - MAXIMUM PATH OF EGRESS START POINT
- OCCUPANCY TYPE
- SQUARE FOOTAGE
- # SF OCCUPANT LOAD
- SQUARE FOOTAGE/T1004.11 REQ'D SF. PER OCC.=OCCUPANT LOAD FOR AREA
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EGRESS WIDTH	REQ.	PROV.
STAIR WIDTH	44" MIN.	48"
DOORS	32" MIN.	36"
MIN. CORRIDOR WIDTH	44" MIN.	70" MIN.

ARS ENVIRONMENTAL, INC. Environmental Consulting Services
Asbestos Business License #ZA-0000194

Asbestos Survey — Project Summary

Pursuant to your request, ARS Environmental, Inc. has performed an Asbestos Building Survey on 9/21/2012 and limited to the above referenced location.

The Interior/Exterior/Roof of the above referenced location was visually inspected to identify building materials that may contain asbestos. Suspect materials were collected and samples sent to laboratory for analysis.

Laboratory Results

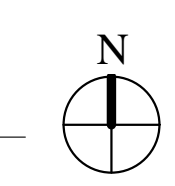
Based On The Laboratory Analysis, No Asbestos Was Detected In Amounts Greater Than 1% In The Secured Bulk Samples.

It has been a pleasure working with you. Please call on us again.

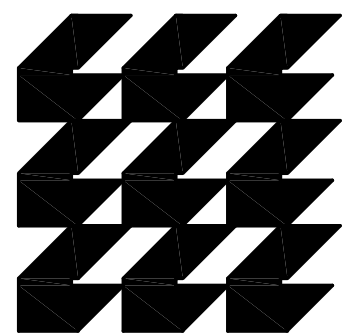
Regards,
ARS Environmental, Inc.

10097 Cleary Boulevard • 8305 • Plantation, FL 33324 • Phone: 954-227-2602 • Fax: 866-816-5110
www.arsenvironmental.com • info@arsenvironmental.com

1 SECOND FLOOR LIFE SAFETY PLAN
LS1.02 1/8" = 1'-0"



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ISSUED FOR :
SPRAB 3/05/2015

BIDS

PERMIT 6/29/2015

CONSTRUCTION

SEAL

PROJECT TITLE
**DELRAY BEACH
ART INCUBATOR**

EXISTING
CONFIGURATION

313 NE 2nd Street
Delray Beach, Florida

REVISIONS
Bldg. Dept. comments
8/21/2015

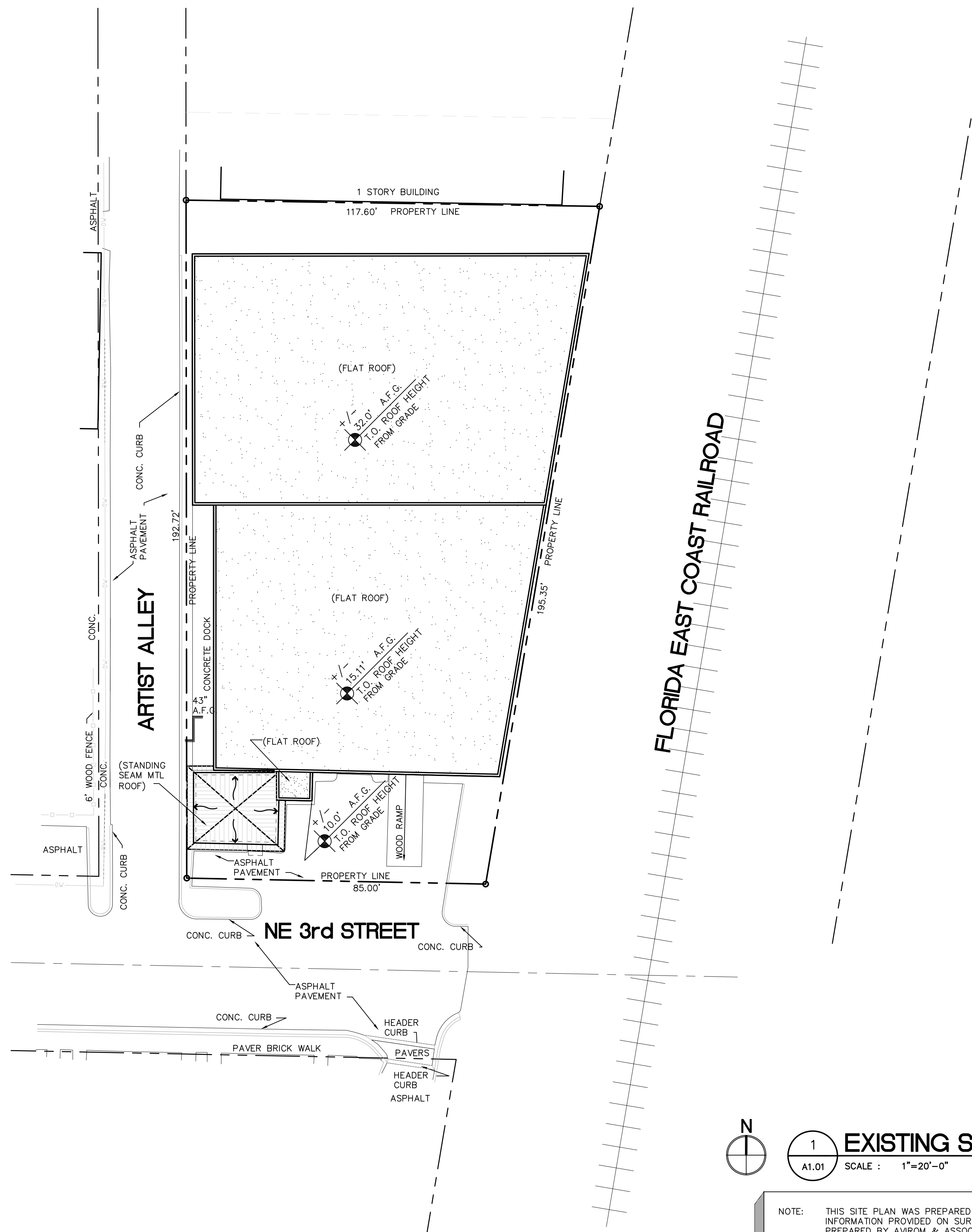
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THE CONTRACTOR THROUGH SUBMITTALS
AND OTHER COORDINATION EFFORTS IS
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COMPLETE AND OPERATIONAL BUILDING
WHETHER INDICATED ON THE PLANS OR NOT.

FILE NUMBER
701-A201.DWG

DRAWING TITLE
**EXISTING
SITE PLAN**

DATE 6/29/2015 DRAWN BY JC
JOB NUMBER 100701
DRAWING NUMBER

EX-A1.01

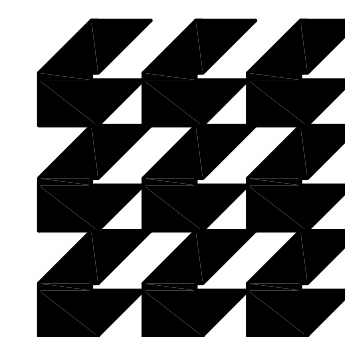


1 EXISTING SITE PLAN
A1.01 SCALE : 1"=20'-0"

NOTE: THIS SITE PLAN WAS PREPARED FROM
INFORMATION PROVIDED ON SURVEY
PREPARED BY AVROM & ASSOCIATES, INC.
DATED 08/05/2010 UPDATED 04/17/2015

PERMIT SET 6/29/2015

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CONSTRUCTION

SEAL

PROJECT TITLE
DELRAY BEACH ART INCUBATOR

EXISTING CONFIGURATION

313 NE 2nd Street
Delray Beach, Florida

REVISIONS
1 Bldg. Dept. comments
8/21/2015

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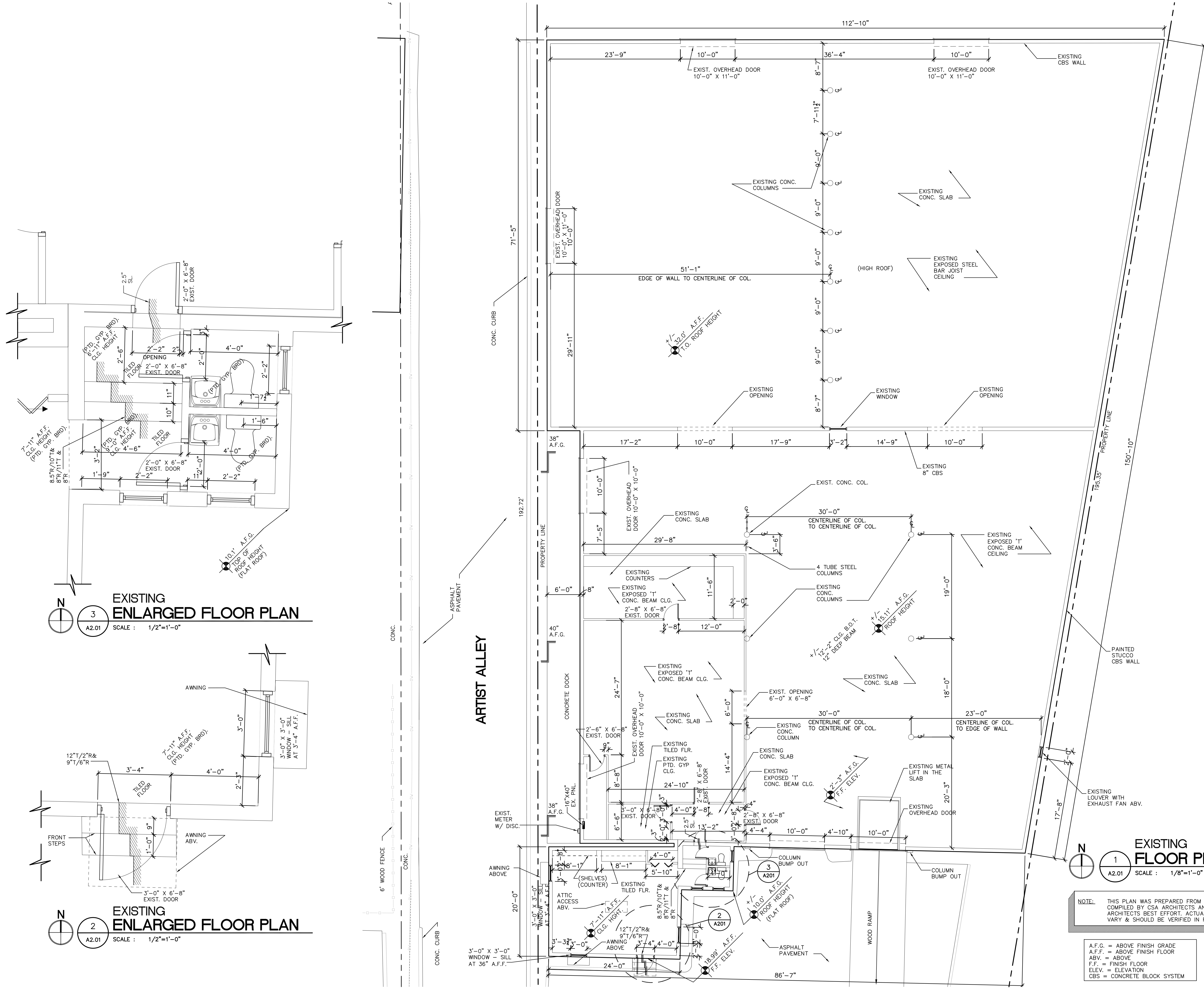
FILE NUMBER
100701 DELRAY CRA ART INCUBATOR/CSA/06/29/2015/001 2015-4-13.dwg

DRAWING TITLE

EXISTING FLOOR PLAN

DATE 6/29/2015 DRAWN BY JC
JOB NUMBER 100701
DRAWING NUMBER 1

EX-A2.01

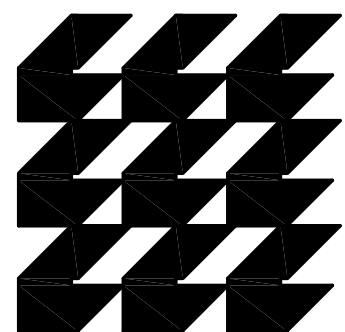


FLORIDA EAST COAST RAILROAD

NOTE: THIS PLAN WAS PREPARED FROM FIELD MEASUREMENTS COMPILED BY CSA ARCHITECTS AND REPRESENT THE ARCHITECTS BEST EFFORT. ACTUAL DIMENSIONS MAY VARY & SHOULD BE VERIFIED IN FIELD.

A.F.G. = ABOVE FINISH GRADE
A.F.F. = ABOVE FINISH FLOOR
ABV. = ABOVE
F.F. = FINISH FLOOR
ELEV. = ELEVATION
CBS = CONCRETE BLOCK SYSTEM

PERMIT SET 6/29/2015



**CURRIE
SOWARDS
AGUILA
ARCHITECTS**

Architects, Planners
& Interior Designers

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134 N.E. 1st Avenue
Delray Beach, Florida 33444
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FAX: 561 243-8184
E-mail: office@csa-architects.com

ISSUED FOR: SPRAB 3/05/2015

BIDS

PERMIT 6/29/2015

CONSTRUCTION

SEAL

PROJECT TITLE
**DELRAY BEACH
ART INCUBATOR**

EXISTING
CONFIGURATION

313 NE 2nd Street
Delray Beach, Florida

REVISIONS
△ Bldg. Dept. comments
8/21/2015

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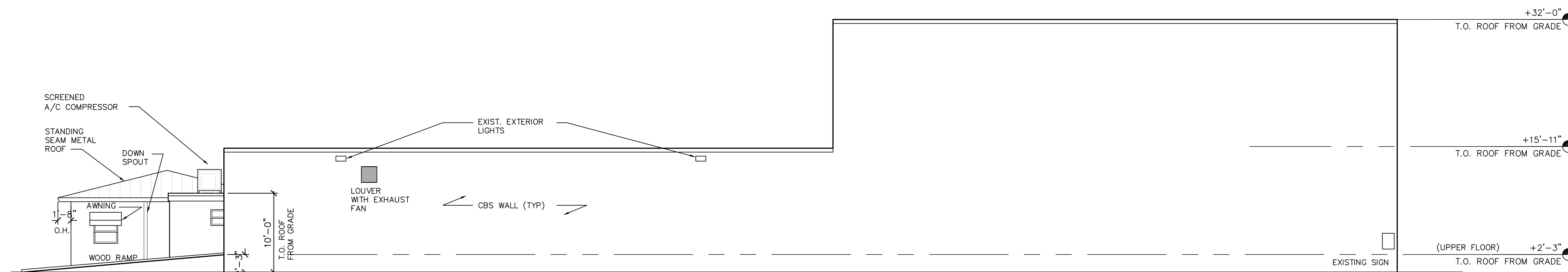
FILE NUMBER
701-A201.DWG

DRAWING TITLE
**EXISTING
EXTERIOR
ELEVATIONS**

DATE 6/29/2015 | DRAWN BY JC
JOB NUMBER 100701

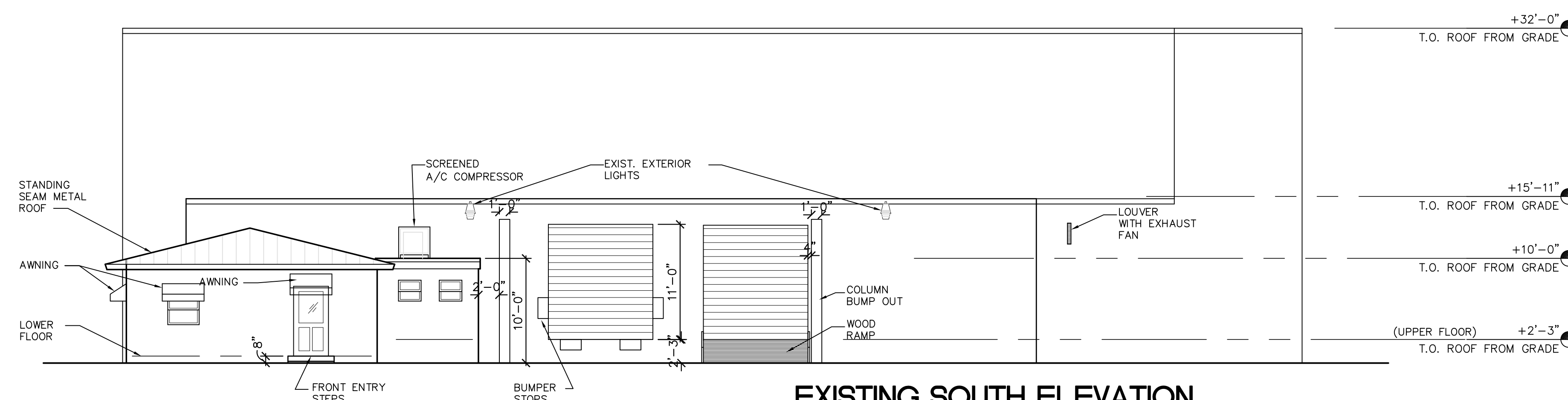
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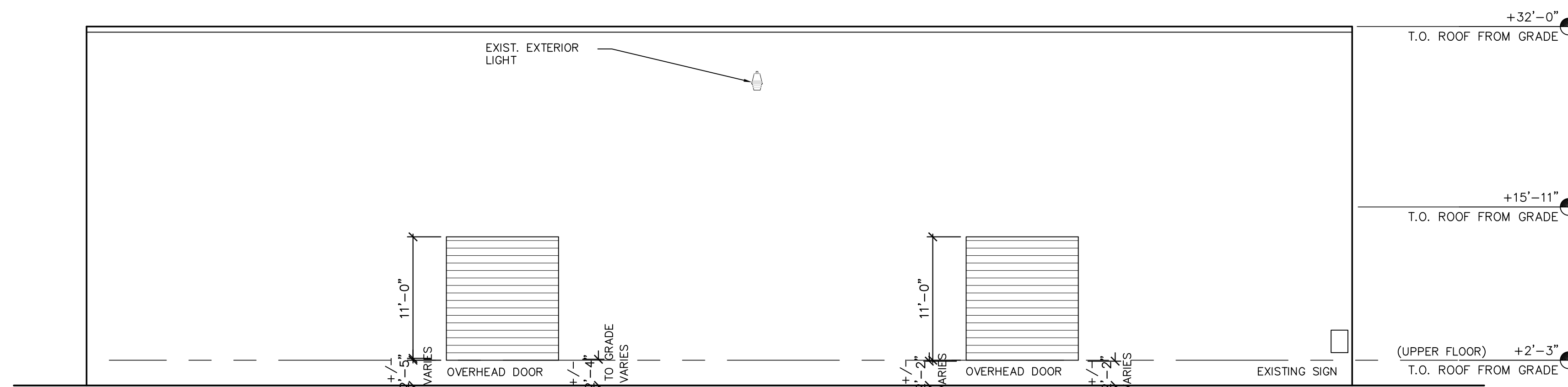
EXISTING EAST ELEVATION

SCALE : 1/8"=1'-0"



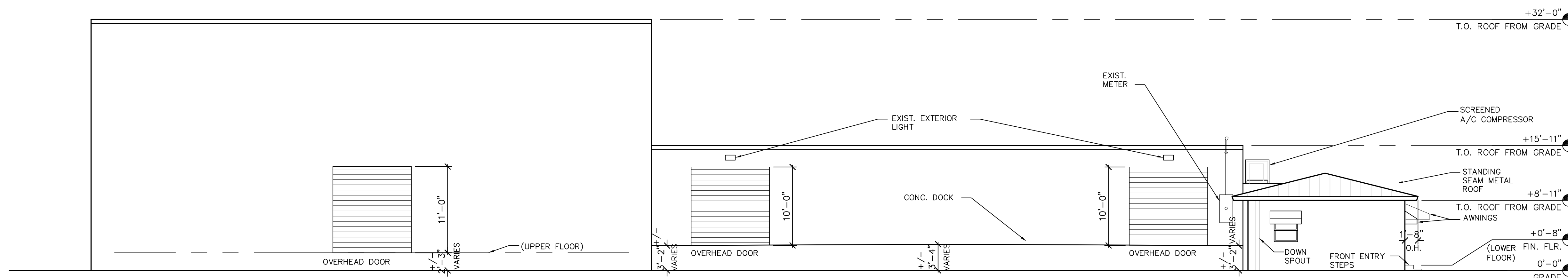
EXISTING SOUTH ELEVATION

SCALE : 1/8"=1'-0"



EXISTING NORTH ELEVATION

SCALE : 1/8"=1'-0"



EXISTING WEST ELEVATION

SCALE : 1/8"=1'-0"

NOTES: THESE ELEVATIONS WERE PREPARED FROM FIELD MEASUREMENTS COMPILED BY CSA ARCHITECTS AND REPRESENT THE ARCHITECTS BEST EFFORT. ACTUAL DIMENSIONS MAY VARY & SHOULD BE VERIFIED IN FIELD.

PERMIT SET 6/29/2015

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AGUILA**
architects

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Interiors, &
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E-MAIL: office@csa-architects.com

ISSUED FOR :

SPRAB 3/05/2015

BIDS

PERMIT 6/29/2015

CONSTRUCTION

SEAL

PROJECT TITLE

Art Warehouse
Renovation

313 NE 3rd Street, Delray
Beach, Florida 33444

REVISIONS

NUM.	DESCRIPTION	DATE
1	Bldg. Dept. comments	8/21/2015

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FILE NUMBER:
J:\100701 DELRAY CRA ART INDICATOR\DRAWINGS\100701 - CENTRAL.rvt

DRAWING TITLE

DEMOLITION
PLAN

DATE 6/29/2015 | DRAWN BY JC

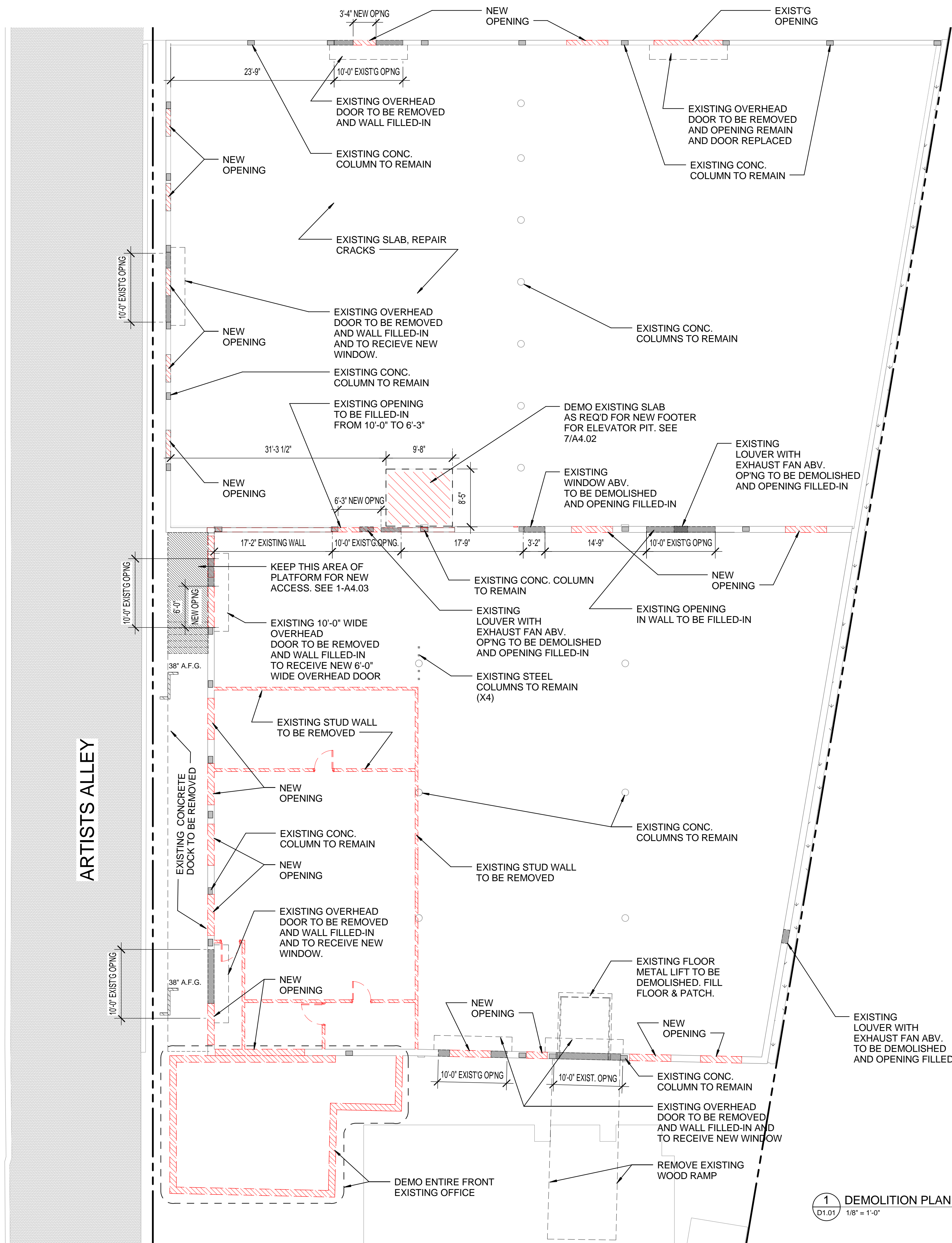
JOB NUMBER

100701

DRAWING NUMBER

D1.01

PERMIT SET 6/29/2015

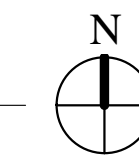


FLORIDA EAST COAST RAILROAD

ARTISTS ALLEY

GENERAL NOTES:
IT IS REQUIRED THAT THE BIDDING CONTRACTORS VISIT SITE TO ASSESS EXISTING CONDITIONS AND REPORT ANY ADDITIONAL OBSERVATIONS, QUESTIONS, OR DISCREPANCIES TO THE ARCHITECT PRIOR TO SUBMITTING A BID.

1 DEMOLITION PLAN
D1.01 1/8" = 1'-0"



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8/26/2015 11:06:43 AM



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ISSUED FOR :
SPRAB 3/05/2015
BIDS
PERMIT 6/29/2015
CONSTRUCTION
SEAL

PROJECT TITLE
Art Warehouse Renovation

313 NE 3rd Street, Delray Beach, Florida 33444

NUM.	DESCRIPTION	DATE
1	Bldg. Dept. comments	8/21/2015

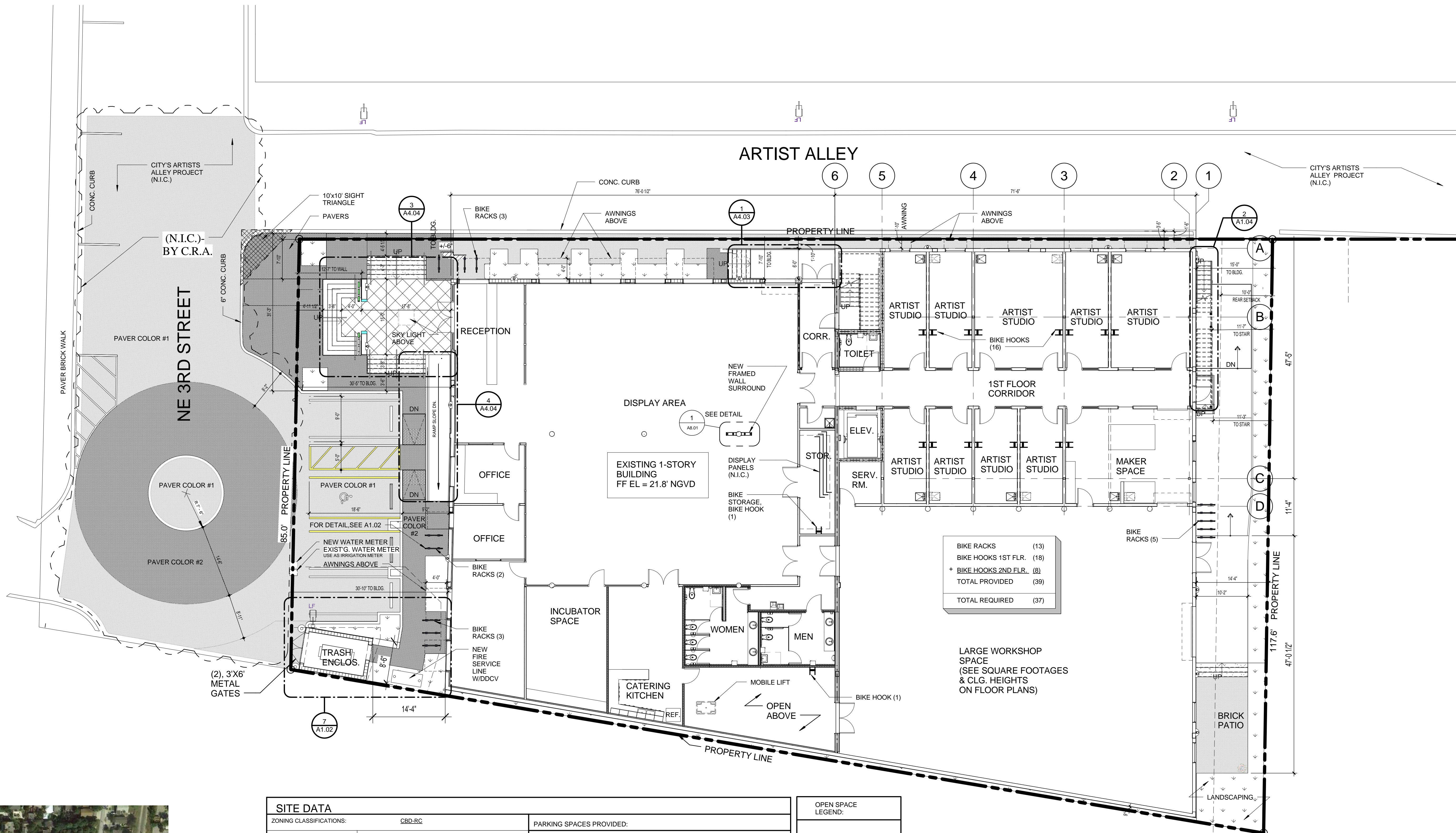
THESE DRAWINGS ARE PREPARED PER ESTABLISHED INDUSTRY STANDARDS AND REPRESENT THE ARCHITECT AND ENGINEERS DESIGN CONCEPT. THEY ARE NOT INTENDED TO PROVIDE EVERY DETAIL OR CONDITION REQUIRED TO CONSTRUCT THE BUILDING. THE CONTRACTOR THROUGH SUBMITTALS AND OTHER COORDINATION EFFORTS IS FULLY RESPONSIBLE FOR PROVIDING A COMPLETE AND OPERATIONAL BUILDING WHETHER INDICATED ON THE PLANS OR NOT.

DRAWING TITLE
SITE PLAN

DATE 6/29/2015 | DRAWN BY WLM/JC
JOB NUMBER 100701
DRAWING NUMBER

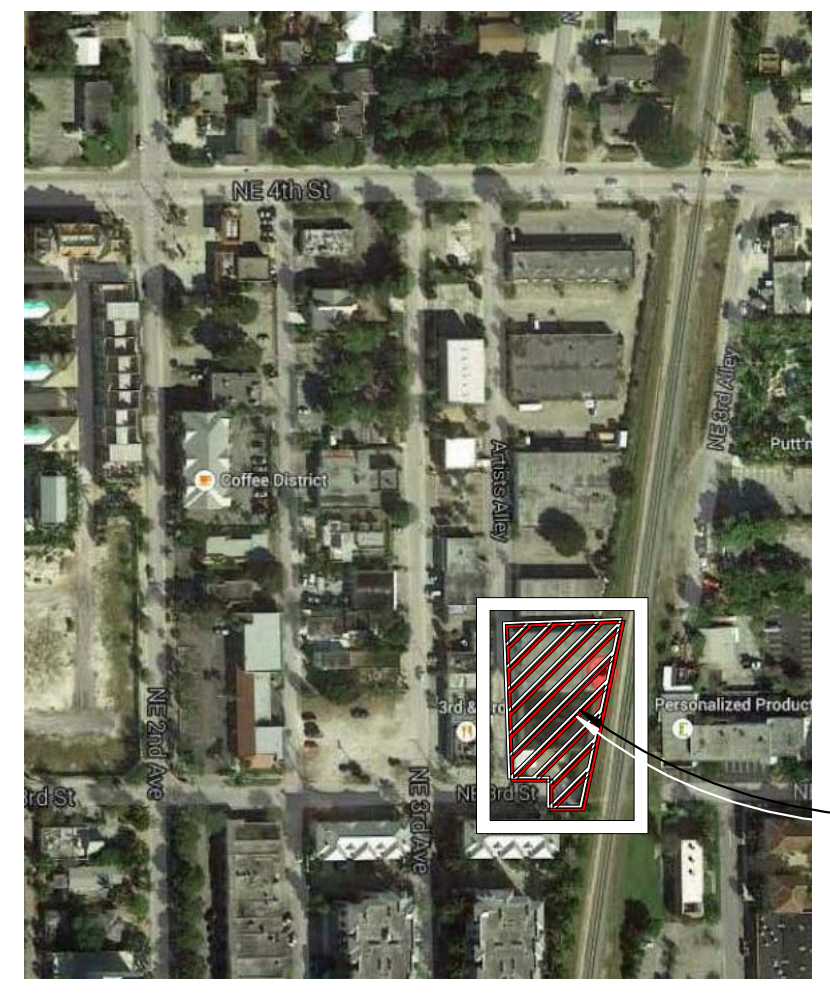
A1.01

PERMIT SET 6/29/2015



BIKE RACKS (13)
BIKE HOOKS 1ST FLR. (18)
+ BIKE HOOKS 2ND FLR. (8)
TOTAL PROVIDED (39)
TOTAL REQUIRED (37)

LARGE WORKSHOP SPACE
(SEE SQUARE FOOTAGES & CLG. HEIGHTS ON FLOOR PLANS)



LOCATION MAP
SCALE: N.T.S.

SITE DATA	
ZONING CLASSIFICATIONS:	CBD-RC
SIZE OF PROPERTY	19,543 S.F. 0.45 ACRES
	85' & 117.6' WIDTH 192.72' & 195.35' DEPTH
	85' FRONTAGE
EXISTING USE OF PROPERTY	EMPTY WAREHOUSE
PROJECT DATA	
GROUND FLOOR AREA:	14,355.14 S.F. 73% OF SITE
TOTAL FLOOR AREA:	18,013.45 S.F. 92% OF SITE
PARKING/PAVED AREA:	653 S.F. 0.33% OF SITE
OPEN (LANDSCAPED) SPACE:	1,014 S.F. 0.51% OF SITE
WATER BODIES:	0 S.F. 0% OF SITE
No. OF RESIDENTIAL DWELLING UNITS:	NA
PARKING SPACES PROVIDED:	
REGULAR	3
COMPACT	___ (NOTE: UP TO 30% OF REQUIRED SPACES MAY BE COMPACT)
HANDICAPPED	1
TOTAL =	4 + 57 (3 HO) OFF SITE. SEE LOCATION MAP & SHEET A1.02 - ARTIST'S ALLEY REPRESENTATIVE PLAN VIEW
PROJECT DATA	
GROUND FLOOR AREA:	14,355.14 S.F. 73% OF SITE
TOTAL FLOOR AREA:	18,013.45 S.F. 92% OF SITE
PARKING/PAVED AREA:	653 S.F. 0.33% OF SITE
OPEN (LANDSCAPED) SPACE:	1,014 S.F. 0.51% OF SITE
WATER BODIES:	0 S.F. 0% OF SITE
No. OF RESIDENTIAL DWELLING UNITS:	NA
PARKING SPACES REQUIRED PURSUANT TO LDR Section 4.6.9	
H.C. PARKINGS:	1 12'X18' SPACE
REGULAR PARKING:	3 9'X18' SPACE
TOTAL ONSITE:	4
TOTAL OFFSITE:	18
TOTAL PROVIDED =	22
TOTAL REQUIRED =	22

OPEN SPACE LEGEND:
1,014 S.F. TOTAL = GREEN SPACE (.0519 % OF SITE)
DESIGNATES LANDSCAPED AREA

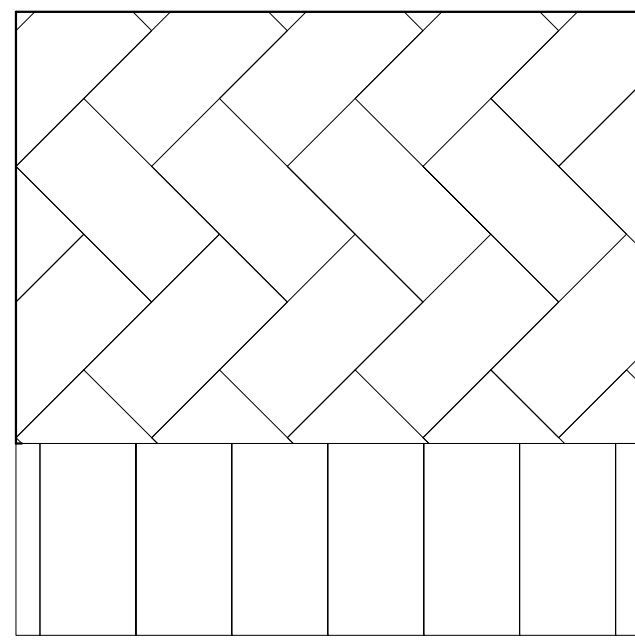
Parcel Control Number:
12-43-46-16-01-089-0380

LEGAL DESCRIPTION:
Lots 38, 39, 40, 41, 42, 43 & 44, Block 89, Delray (Block 89). According to the plat thereof, as recorded in plat book 4, Page 55, of the Public Records of Palm Beach County, Florida and containing 19,543 square feet (0.45 acres) more or less.

1 SITE PLAN
A1.01 1" = 10'-0"

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9/2/2015 3:16:10 PM

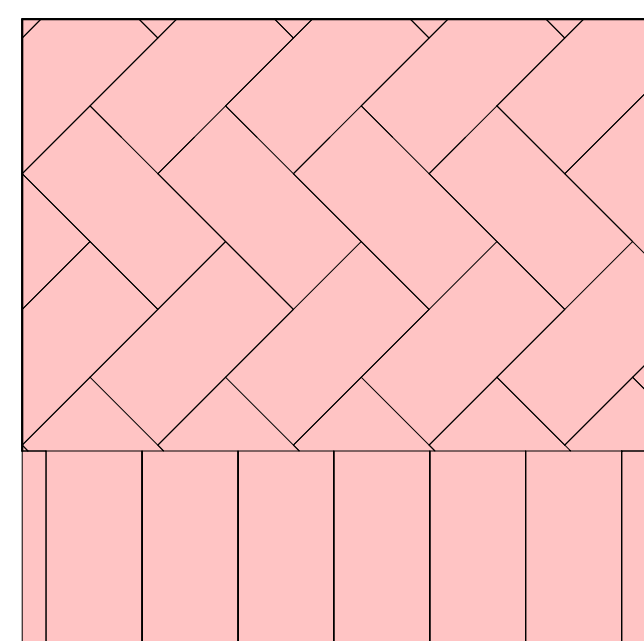
- NOTES:**
- PAVER BRICK TO BE PERMEABLE PAVERS BY HANSON, OR APPROVED EQUAL, INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.
 - GEOTEXTILE (FILTER FABRIC) SHALL BE WRAPPED AROUND THE PERIMETER OF THE PAVER SYSTEM, BROUGHT UP TO HEADER CURB (OR SOLDIER COURSE), AND CUT OFF FLUSH WITH THE SURFACE OF THE PAVERS.
 - CONTRACTOR SHALL ENSURE THAT PAVER SYSTEM AND SUB-BASE IS KEPT FREE OF SEDIMENT DURING ALL CONSTRUCTION ACTIVITIES.
 - AGGREGATE SHALL BE FREE OF SEDIMENT AT TIME OF PLACEMENT.
 - REFER TO ARCHITECTURAL PLANS FOR PAVER PATTERN & COLOR.



PERMEABLE PAVERS (FIELD PAVERS)
TO MATCH LOOK OF CITY STANDARD PAVER,
* HOLLAND-STONE
* 45 DEG. HERRING BONE
* YELLOW: MATCH SHERWIN WILLIAMS "ANJOU PEAR SW 6381"
* RECYCLED GLASS MIX INS. "CA RED" & "MIRROR"

PAVER COLOR #1
COLOR SELECTIONS BASED ON,
HANSON PAVER PRODUCTS
WWW.HANSONPAVERPRODUCTS.COM
1-800-273-7084

CONFIRM FINAL COLOR SELECTIONS & LAYOUT WITH ARCHITECT PRIOR TO ORDERING & INSTALLING

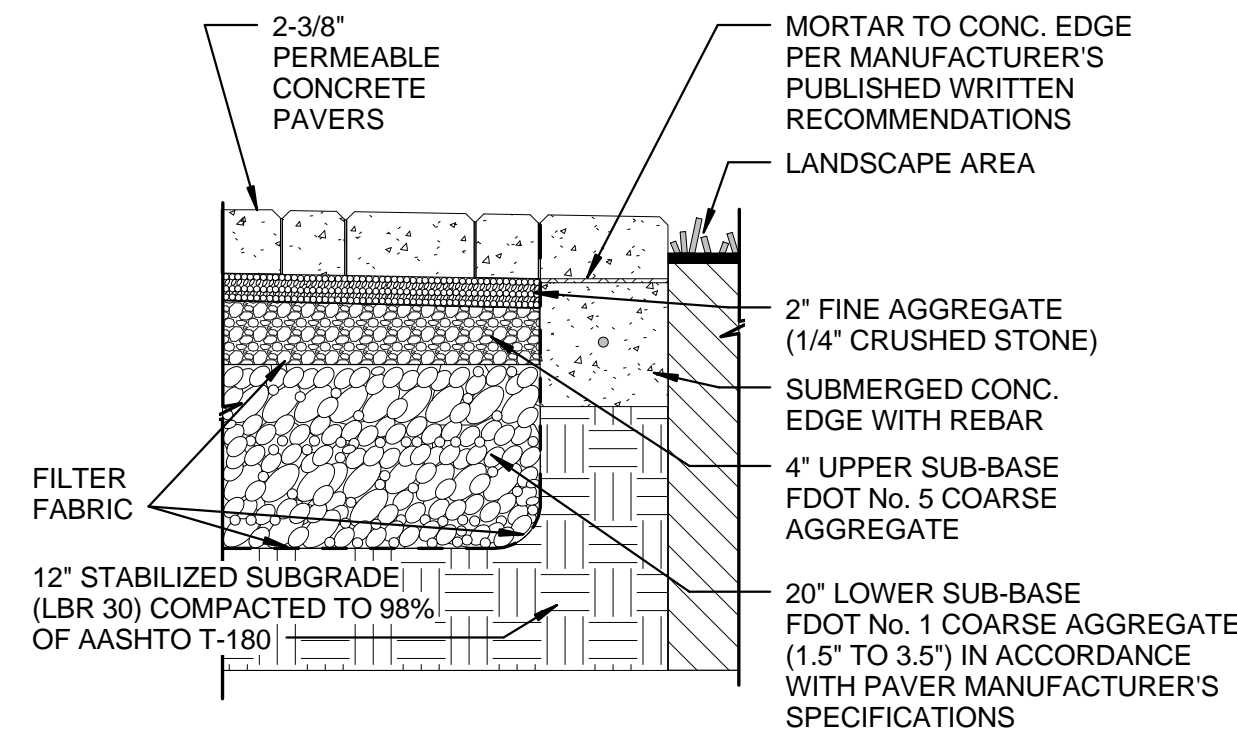
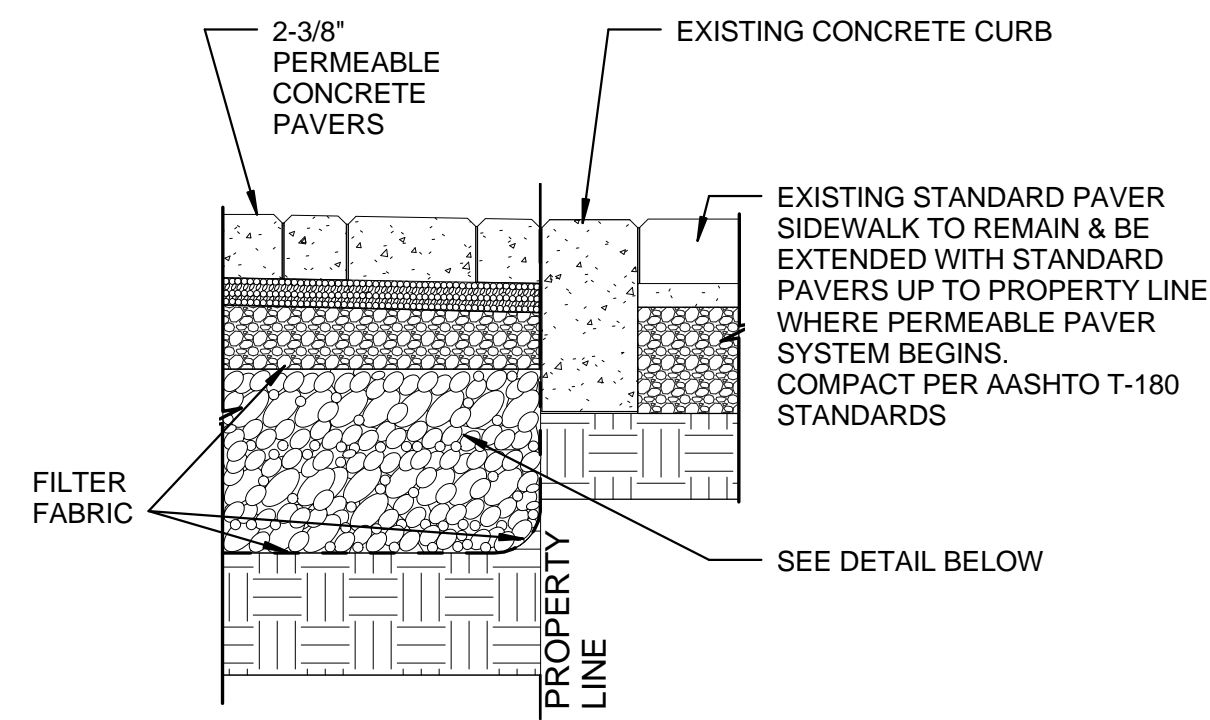


PERMEABLE PAVERS (FIELD PAVERS)
TO MATCH LOOK OF CITY STANDARD PAVER,
* HOLLAND-STONE
* 45 DEG. HERRING BONE
* RED/CHARCOAL COLOR MIX #2

PAVER COLOR #2
COLOR SELECTIONS BASED ON,
HANSON PAVER PRODUCTS
WWW.HANSONPAVERPRODUCTS.COM
1-800-273-7084

CONFIRM FINAL COLOR SELECTIONS & LAYOUT WITH ARCHITECT PRIOR TO ORDERING & INSTALLING

1 PAVER DETAILS
A1.02



Product: Dero Arc Rack
As manufactured by Dero Bike Racks

Capacity: 2 Bikes

Materials: 2" x 2" x 3/16" square tube.

Finishes: An after fabrication hot dipped galvanized finish is our standard option. 250 TGIC powder coat colors, thermoplastic coating, PVC dip, and stainless steel finishes are also available as alternate options.

Our powder coat finish assures a high level of adhesion and durability by following these steps:
1. Sandblast
2. Epoxy primer electrostatically applied
3. Final thick TGIC polyester powder coat

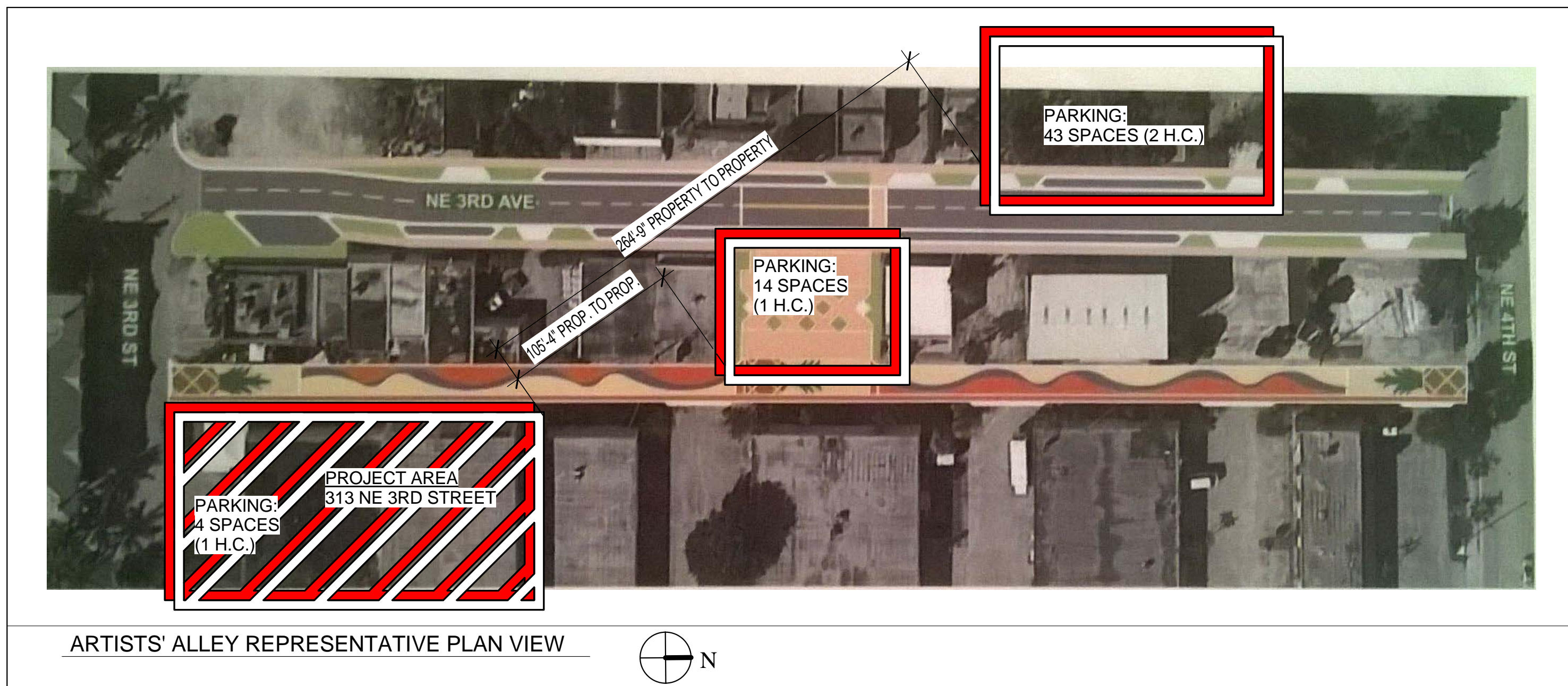
Stainless Steel: 304 grade stainless steel material finished in either a high polished shine or a satin finish.

Installation Methods: In ground, Surface

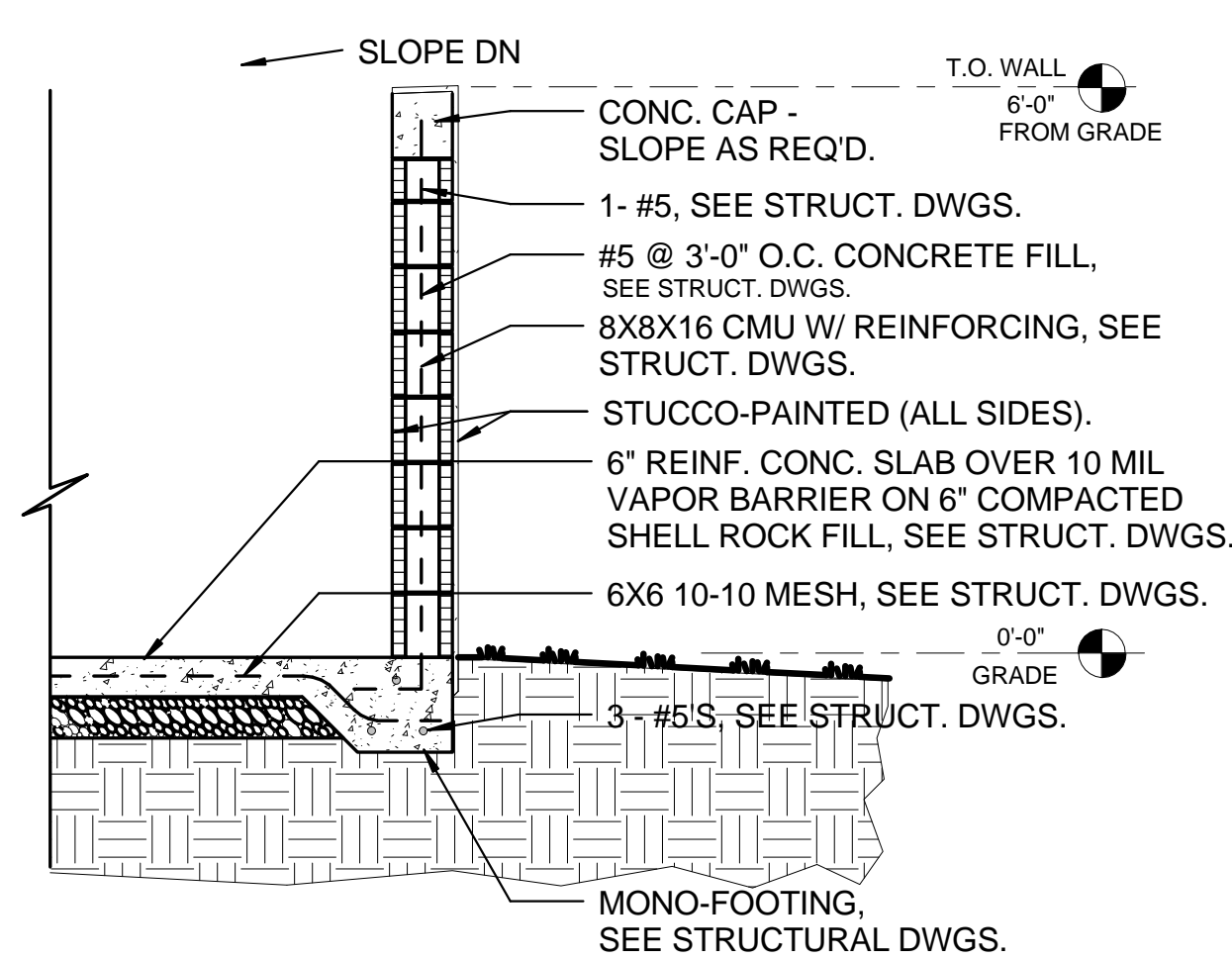
Space Use and Setbacks: Wall Setbacks: For racks set parallel to a wall: Minimum: 24", Recommended: 36". For racks set perpendicular to a wall: Minimum: 28", Recommended: 42". Distance Between Racks: Minimum: 24", Recommended: 36". Street Setbacks: Minimum: 24", Recommended: 36".

DERO BIKE RACKS www.dero.com 1-800-397-6729

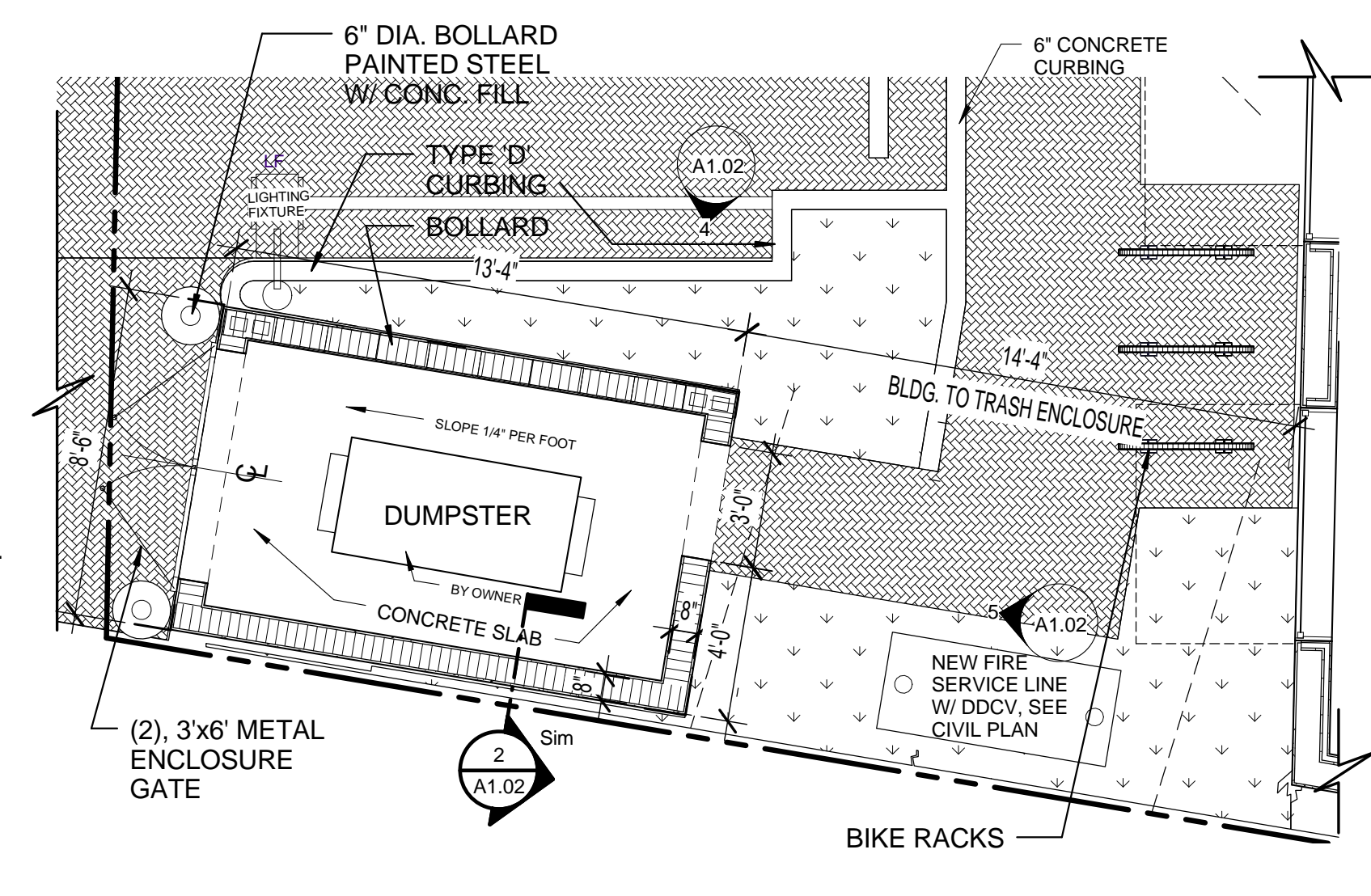
8 BIKE RACK DETAIL
A1.02 1/2" = 1'-0"



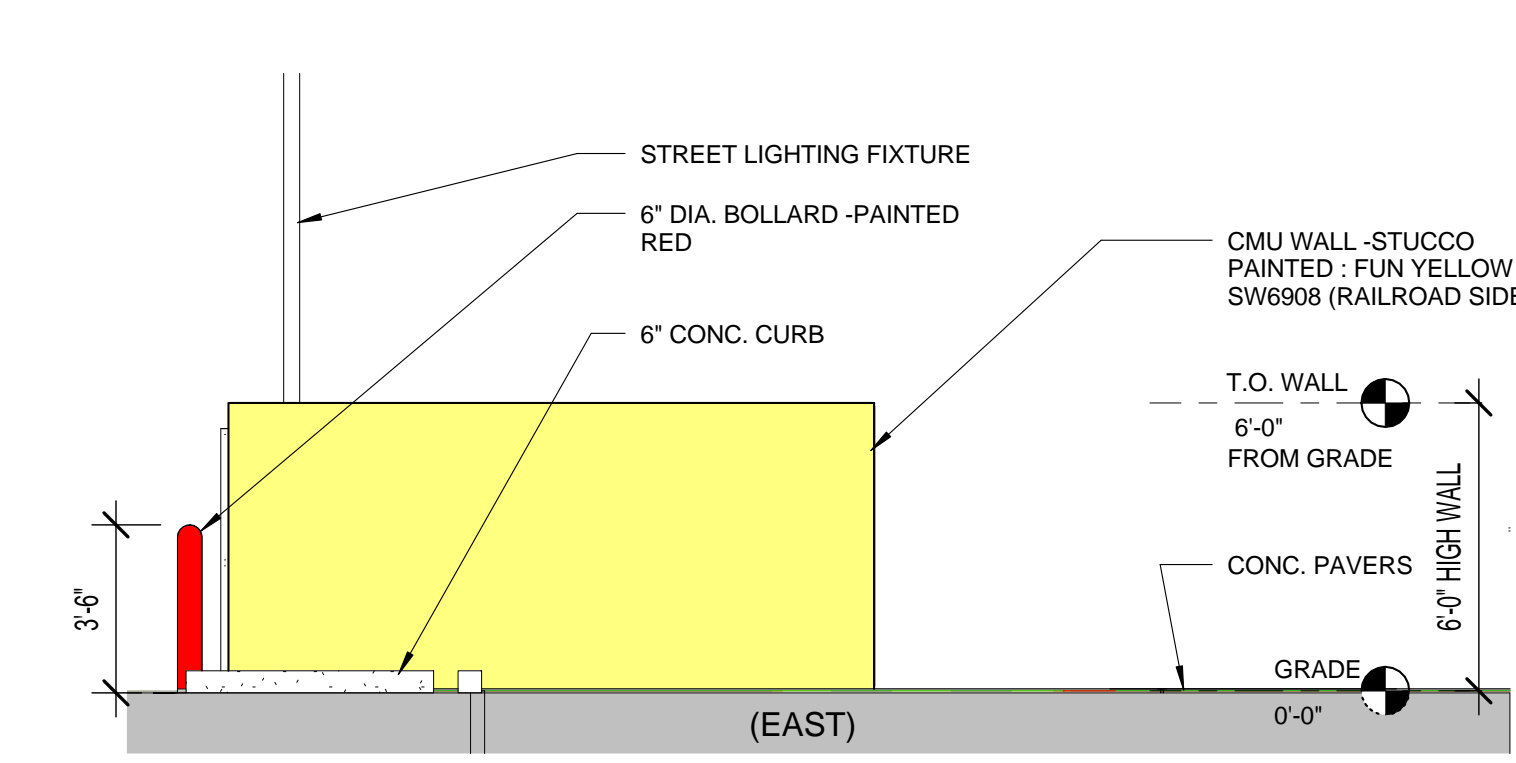
ARTISTS' ALLEY REPRESENTATIVE PLAN VIEW



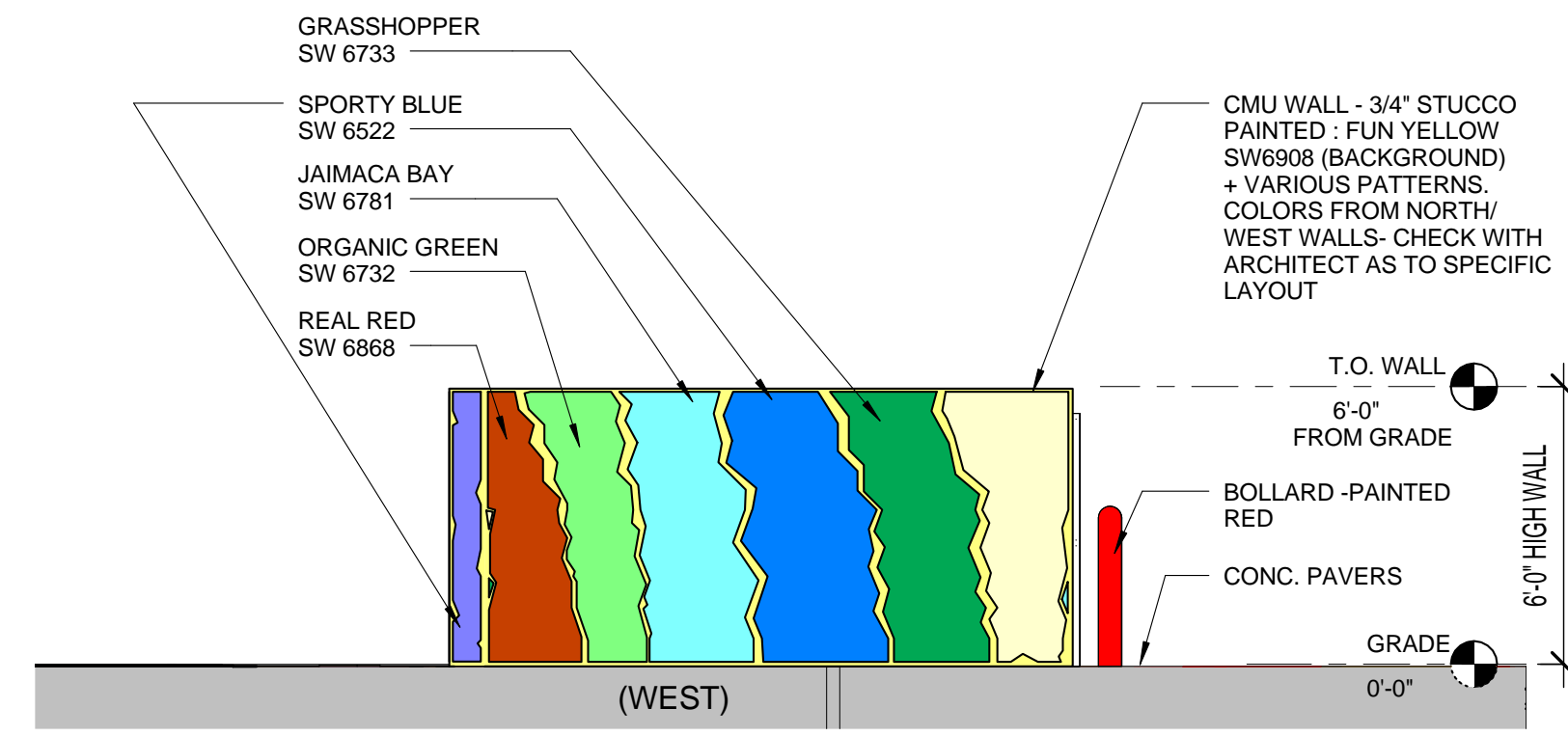
2 DUMPSTER ENCLOSURE DETAIL
A1.02 1/2" = 1'-0"



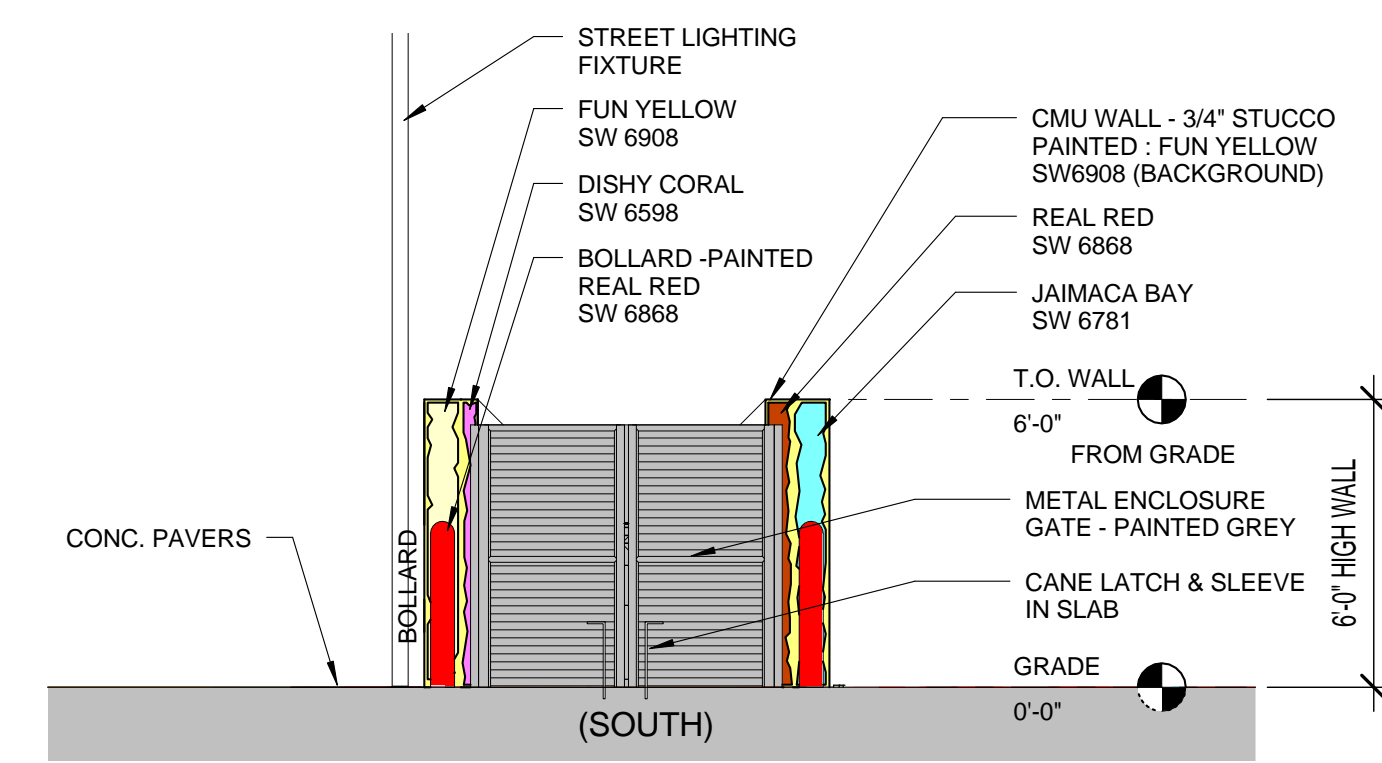
7 ENLARGED FLOOR PLAN - DUMPSTER ENCLOSURE
A1.02 1/4" = 1'-0"



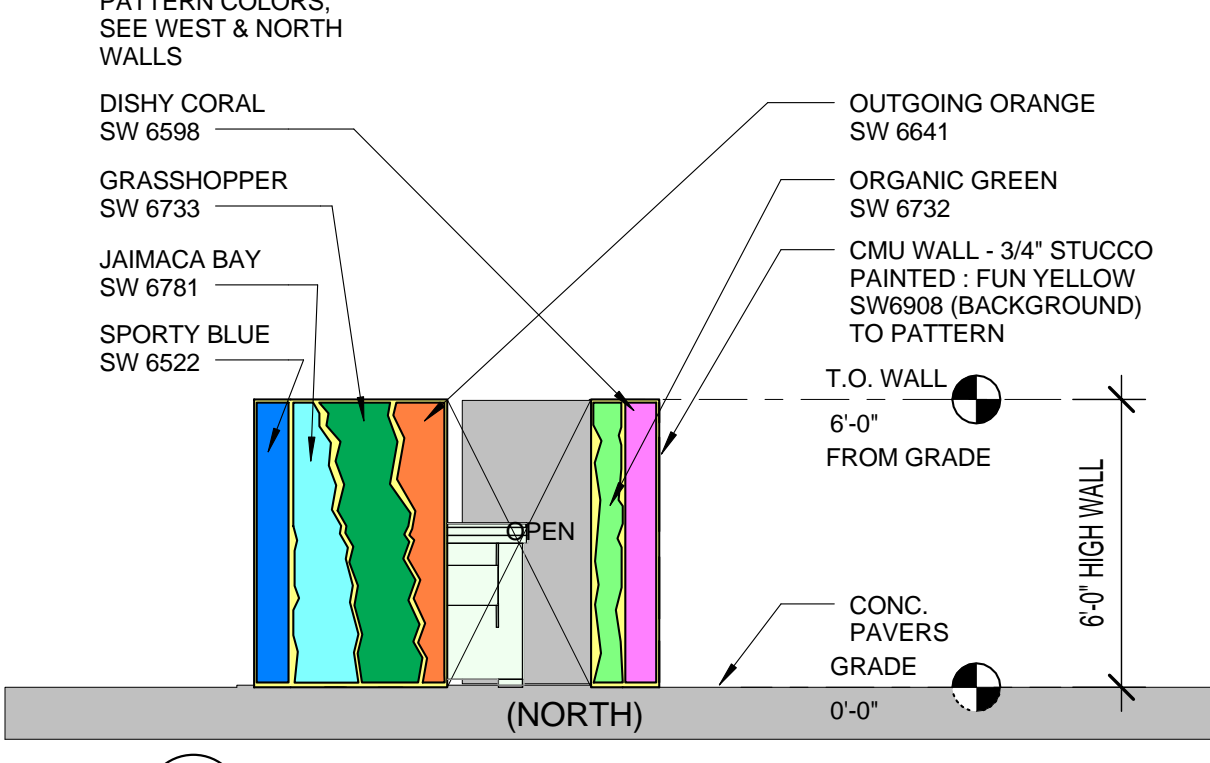
3 Elevation 1E - a - DUMPSTER ENCLOSURE
A1.02 1/4" = 1'-0"



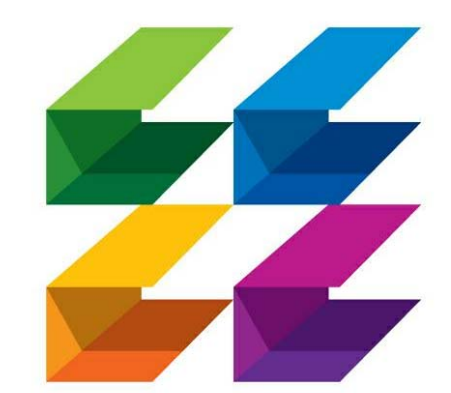
4 Elevation 2W - a - DUMPSTER ENCLOSURE
A1.02 1/4" = 1'-0"



6 Elevation 4S - a - DUMPSTER ENCLOSURE
A1.02 1/4" = 1'-0"



5 Elevation 3N - a - DUMPSTER ENCLOSURE
A1.02 1/4" = 1'-0"



CURRIE SOWARDS AGUILA architects
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DELRAY BEACH, FL 33483
T: (561) 276-4951 F: (561) 243-8184
E-MAIL: office@csa-architects.com

ISSUED FOR: SPRAB 3/05/2015
BIDS: .
PERMIT: 6/29/2015
CONSTRUCTION
SEAL

PROJECT TITLE
Art Warehouse Renovation

313 NE 3rd Street, Delray Beach, Florida 33444

NUM.	DESCRIPTION	DATE
1	Bldg. Dept. comments	8/21/2015

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DRAWING TITLE
SITE DETAILS

DATE: 6/29/2015 | DRAWN BY: JC
JOB NUMBER: 100701
DRAWING NUMBER: A1.02

PERMIT SET 6/29/2015

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architects

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ISSUED FOR :

SPRAB 3/05/2015

BIDS .

PERMIT 6/29/2015

CONSTRUCTION

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PROJECT TITLE

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313 NE 3rd Street, Delray
Beach, Florida 33444

NUM.	DESCRIPTION	DATE
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FILE NUMBER:
J:\100701 DELRAY CRA ART
INDICATOR\DRAWINGS\100701 -
CENTRAL.rvt

DRAWING TITLE

ENLARGED STAIR
AND RAMP PLANS

DATE

6/29/2015

DRAWN BY

MM

JOB NUMBER

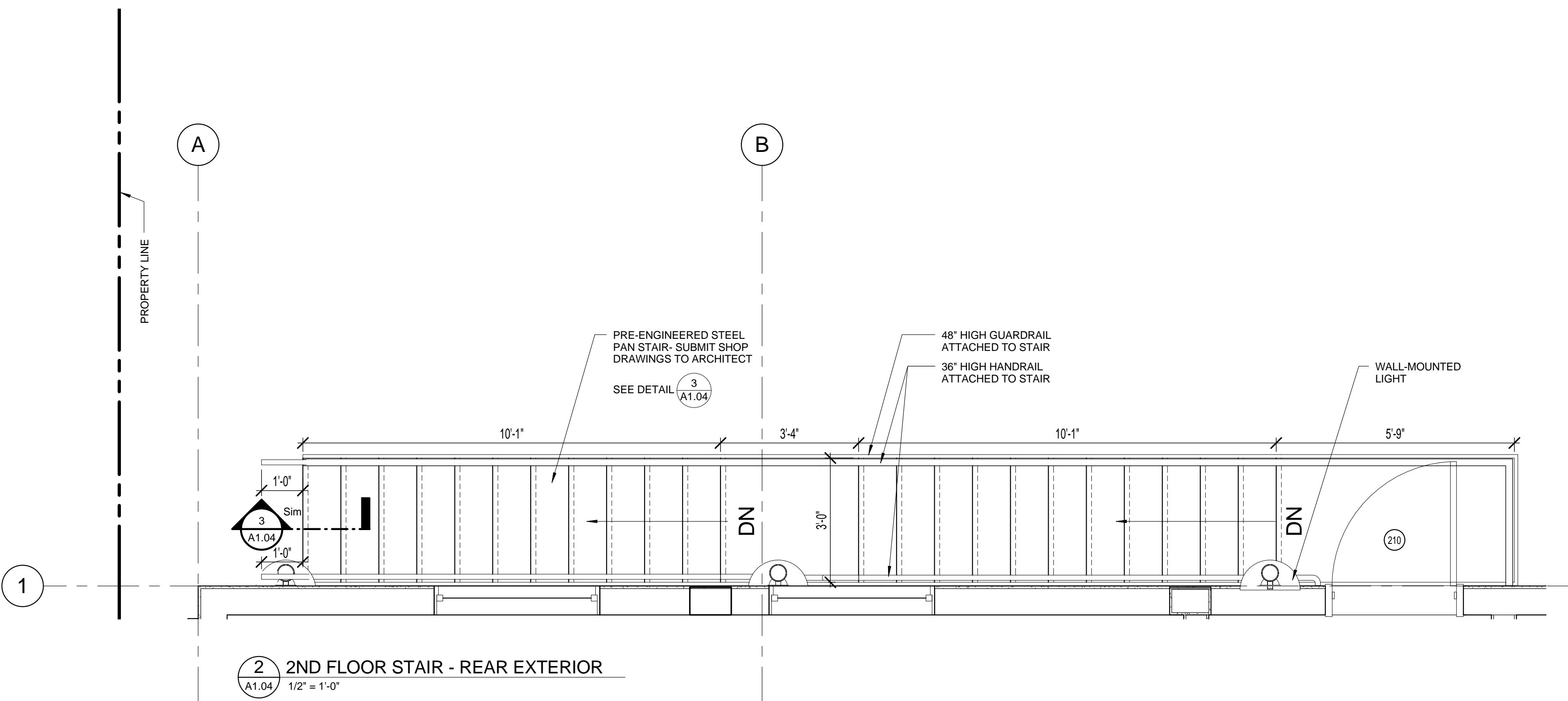
100701

DRAWING NUMBER

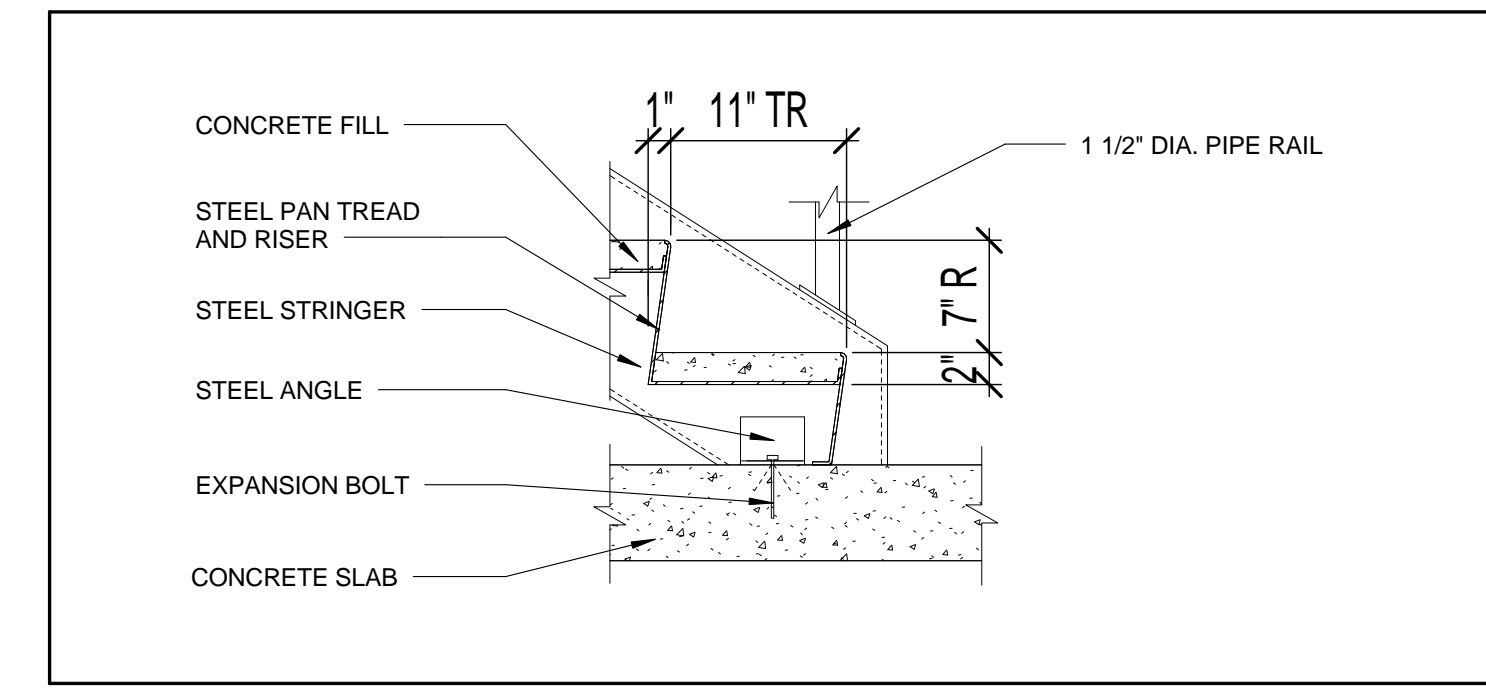
A1.04

PERMIT SET 6/29/2015

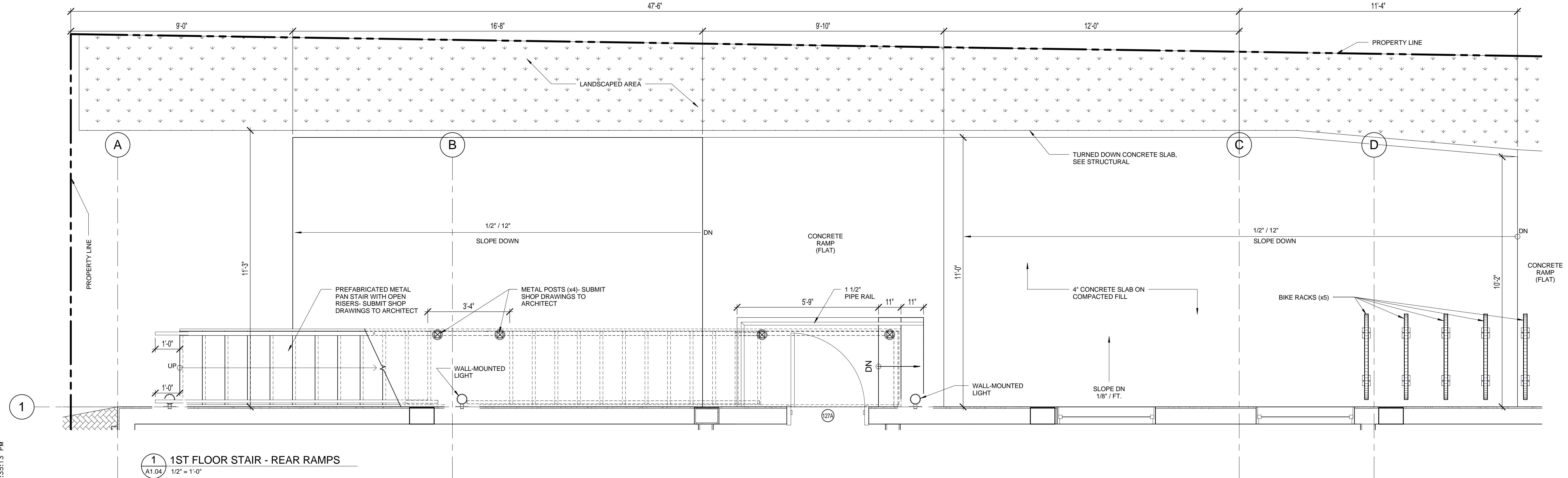
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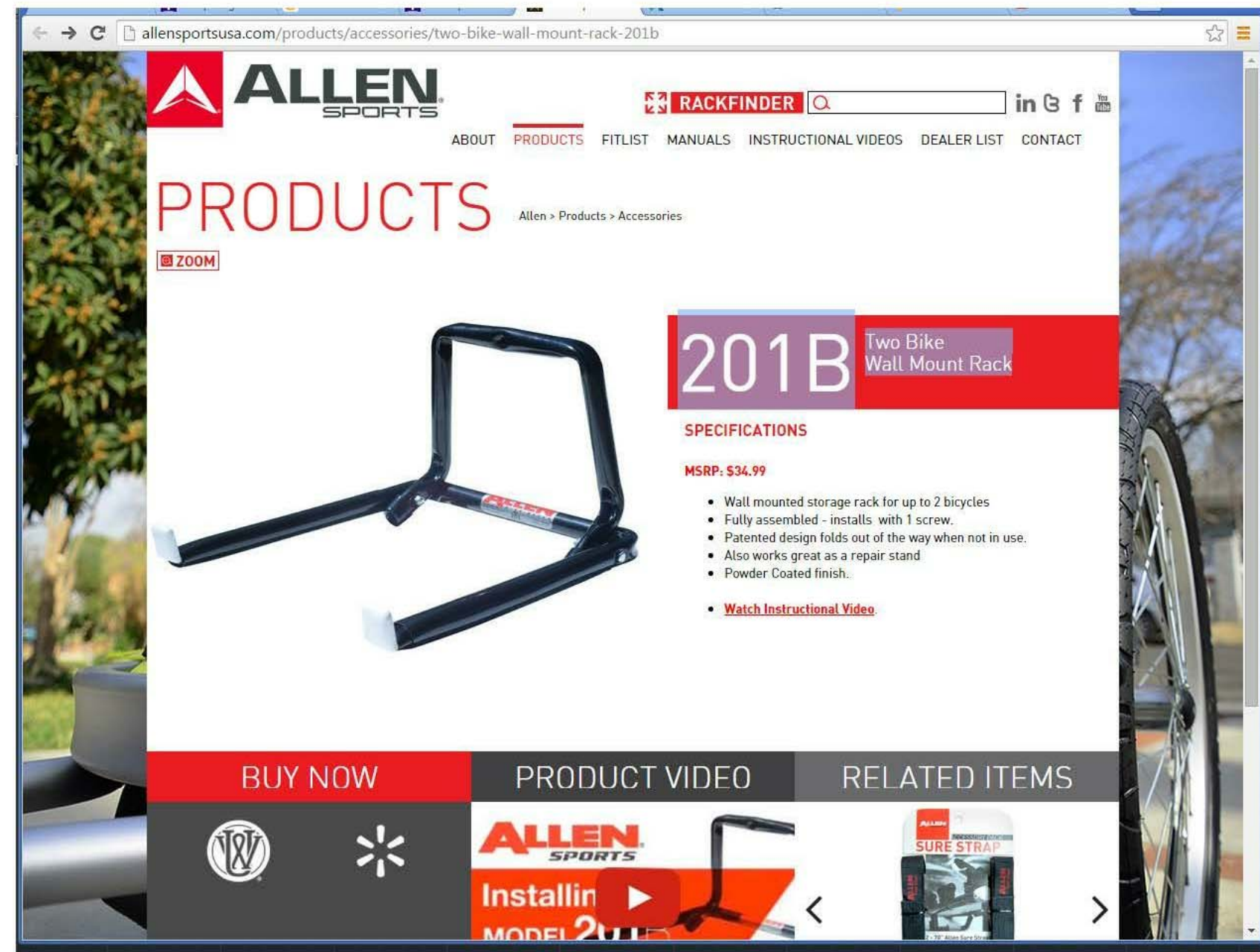
2 2ND FLOOR STAIR - REAR EXTERIOR
A1.04 1/2" = 1'-0"



3 STEEL PAN STAIR DETAIL
A1.04 1" = 1'-0"



1 1ST FLOOR STAIR - REAR RAMPS
A1.04 1/2" = 1'-0"



Bike Hook Specification

11/14/2014 Electric Scissor Lifts | JLG

Electric Scissor Lifts

Enhance your productivity with less recharging and more uptime with JLG® electric scissor lifts. These machines are designed so you have fewer scheduled services, a quieter work area, less dependency on hydraulic oils and zero emissions. Also, the innovative operator controls and compact dimensions make this series extremely mobile.

Electric Powered AWP Family Brochure
 (/~/media/jlg/current-materials-no-password/products/americas%20-%20ansi/awp-family-materials/docs/electric-awp-brochure.pdf)

3 models

ES Series

Machine Width:
2 ft 6 in. - 3 ft 10 in.

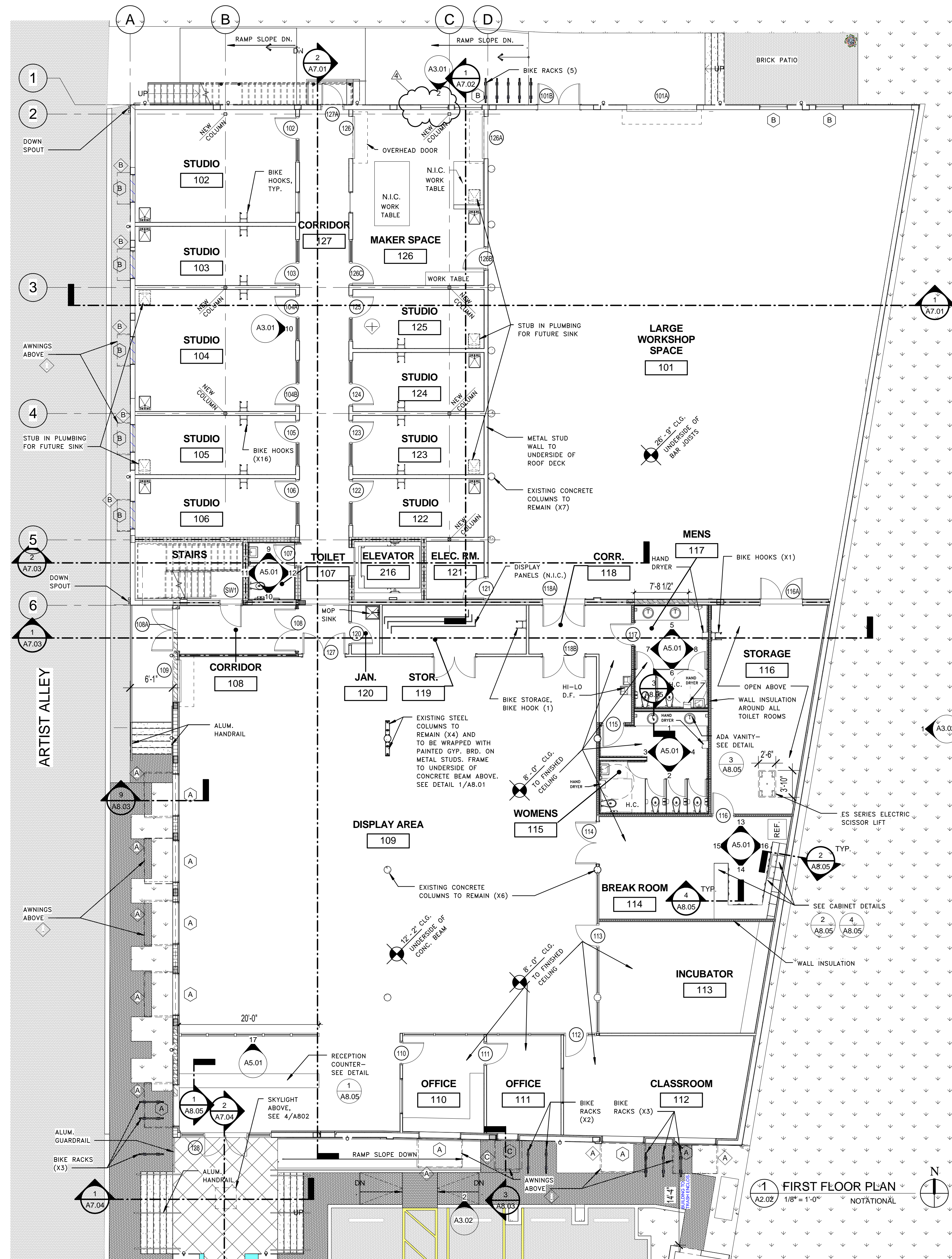
Platform Height:
18 ft 9 in. - 31 ft 9 in.

Working Height:
24 ft 9 in. - 37 ft 9 in.

The ES Series has the industry's best on-the-job performance with double the duty cycles of other electric scissor lifts. This gives you double the operating time on a single charge.

<http://www.jlg.com/en/equipment/scissor-lifts/electric>

MOBILE SCISSOR LIFT



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PROJECT TITLE
Art Warehouse Renovation

313 NE 3rd Street, Delray Beach, Florida 33444

NUM.	REVISIONS DESCRIPTION	DATE
1	Bldg. Dept. comments	8/21/2015
4	Bldg. Dept. Crmnts	1/19/2016

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DRAWING TITLE
FIRST FLOOR PLAN - NOTATIONAL

DATE
 6/29/2015 | DRAWN BY
 IG, J.C. MM

JOB NUMBER
 100701
 DRAWING NUMBER
A2.02

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ISSUED FOR :

SPRAB 3/05/2015

BIDS .

PERMIT 6/29/2015

CONSTRUCTION

SEAL

PROJECT TITLE

**Art Warehouse
Renovation**

313 NE 3rd Street, Delray
Beach, Florida 33444

REVISIONS		
NUM.	DESCRIPTION	DATE
1	Bldg. Dept. comments	8/21/2015

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FILE NUMBER:
J:\100701 DELRAY CRA ART
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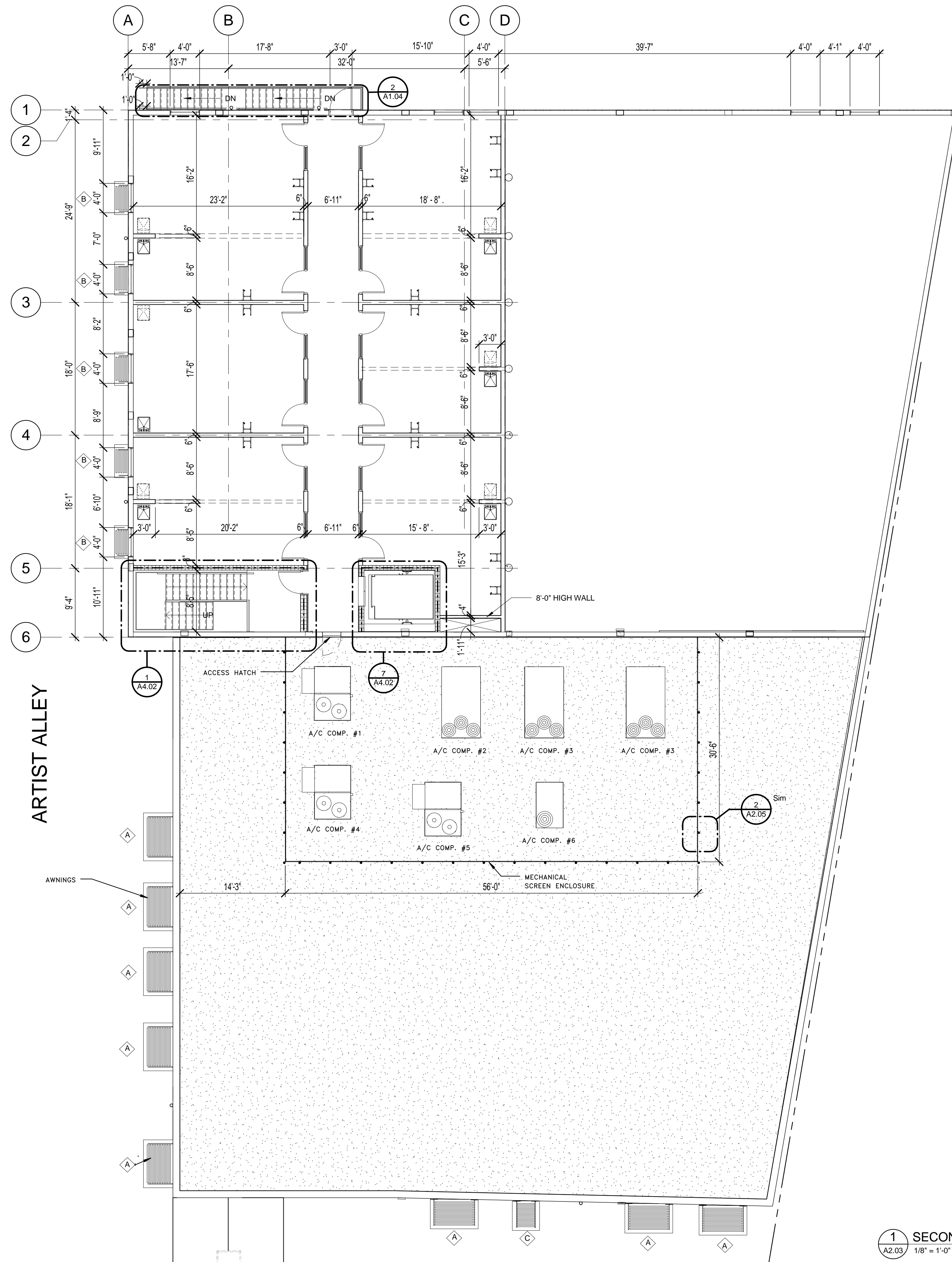
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**SECOND FLOOR
PLAN
DIMENSIONAL**

DATE 6/29/2015 DRAWN BY FN/JC

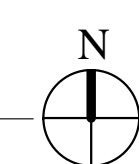
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A2.03



1 SECOND FLOOR PLAN
A2.03 1/8" = 1'-0" DIMENSIONAL



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4	Bldg. Dept. Cmnts	1/19/2016

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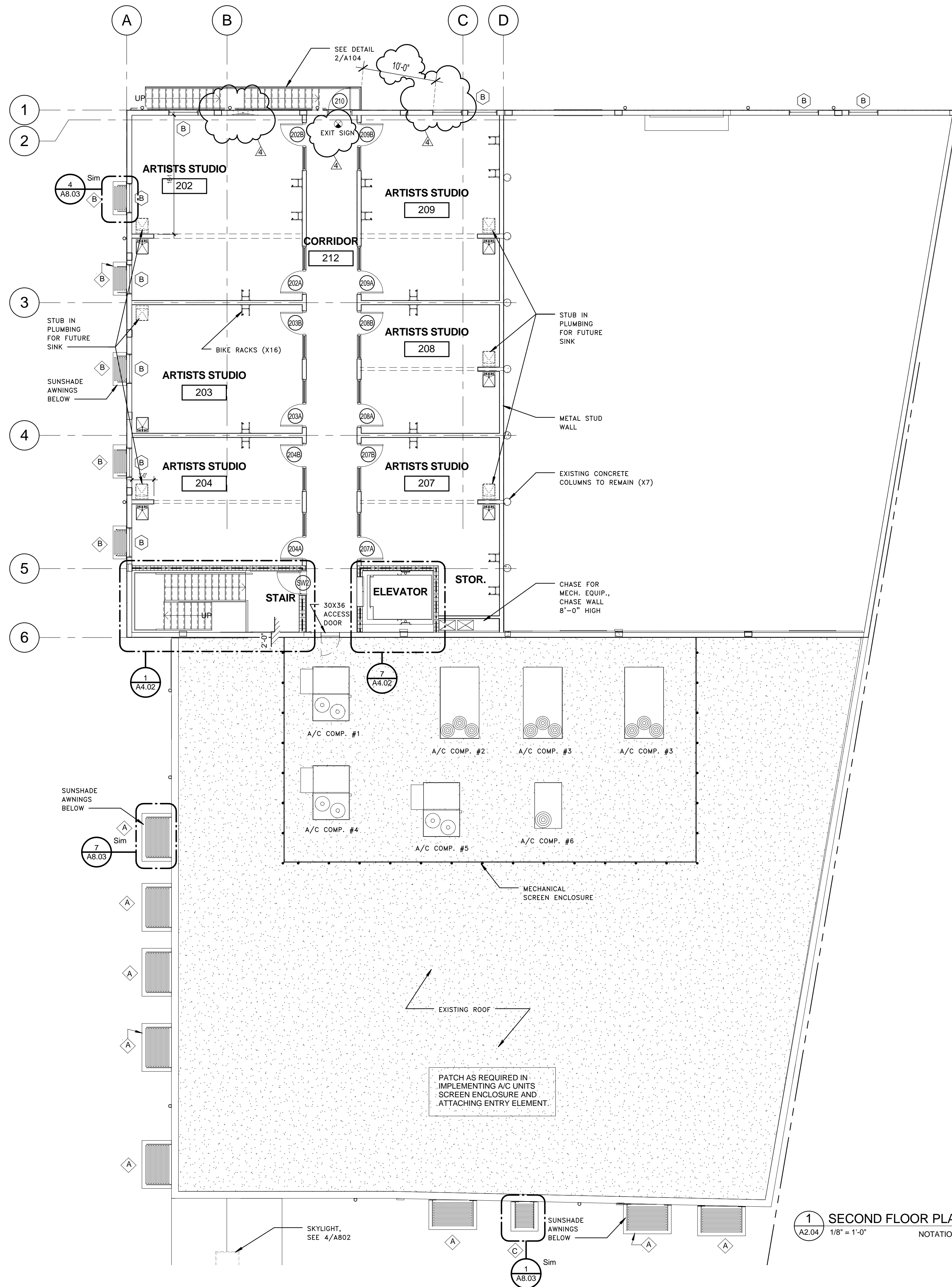
SECOND FLOOR
PLAN-
NOTATIONAL

DATE 6/29/2015 DRAWN BY IG/JC

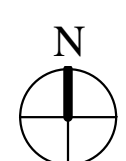
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DRAWING NUMBER

A2.04



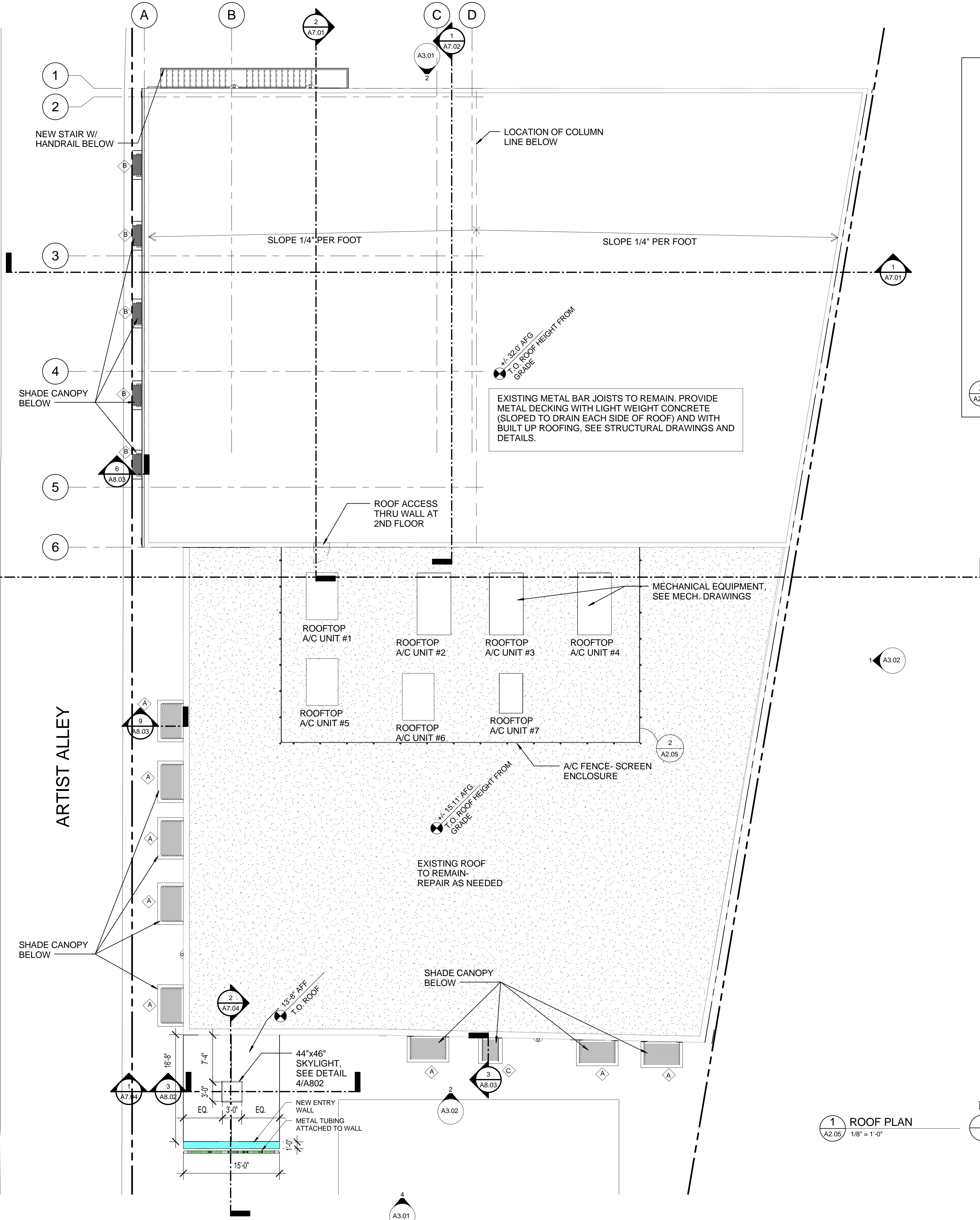
1 SECOND FLOOR PLAN
A2.04 1/8" = 1'-0" NOTATIONAL



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NOTE:
CONTRACTOR TO PROVIDE SHOP DRAWINGS SHOWING ALL ENGINEERING, CONNECTIONS & REINFORCING AS REQ'D. TO MEET THE FLORIDA BUILDING CODE

1 1/2" DIA. CROSS-PIPE WELDED TO VERT. PIPE

CANVAS SCREEN CLOTH ATTACHED TO PIPE FRAME TO CONCEAL PIPE FRAME

1 1/2" DIA. CROSS-PIPE WELDED TO VERT. PIPE

1 1/2" DIA. PIPE WELDED TO PLATE

PITCH PAN

(4) THRU BOLTS AND WASHERS

NEW B.U.R. ON NEW ROOF

EXISTING CONC. ROOF

EQUAL TO TOP OF EQUIP.

9'-8" HIGH VERIFY WITH MECHANICAL DRAWINGS

2 ROOFTOP SCREEN DETAIL- 4'- 0" O.C. TYPICAL

A2.05 3/4" = 1'-0"

1 ROOF PLAN
A2.05 1/8" = 1'-0"

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DRAWING TITLE
ROOF PLAN

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JOB NUMBER: 100701
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A2.05

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4	Bldg. Dept. Crmts	1/19/2016

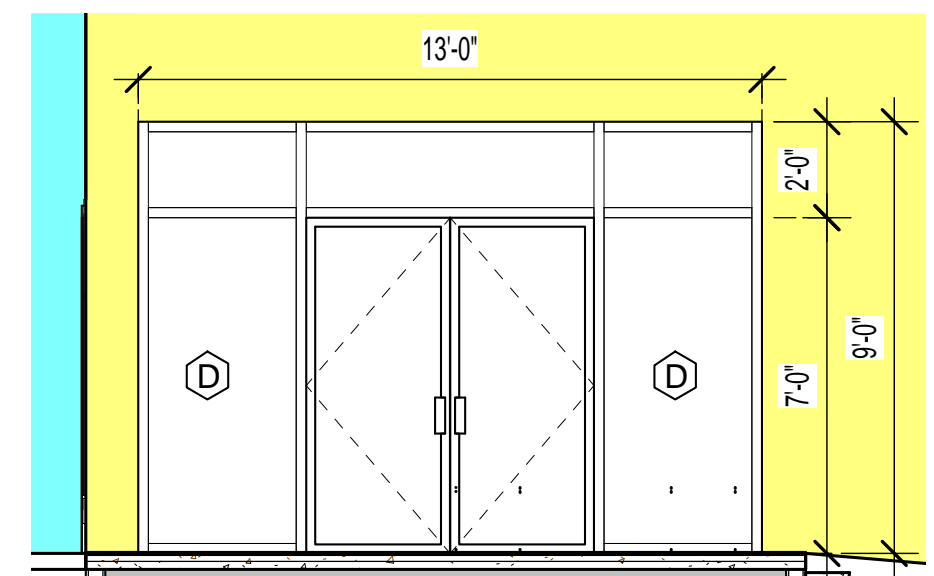
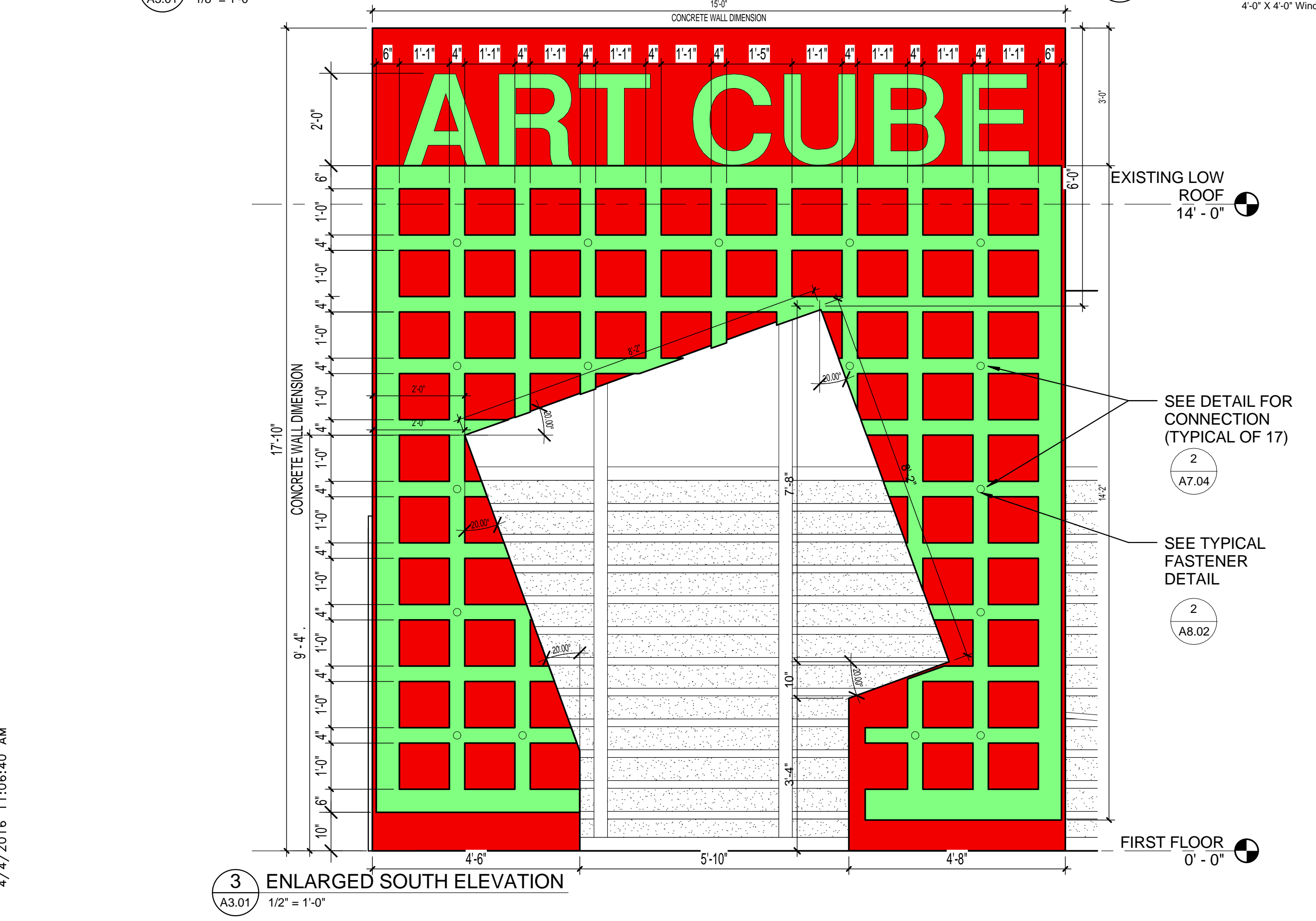
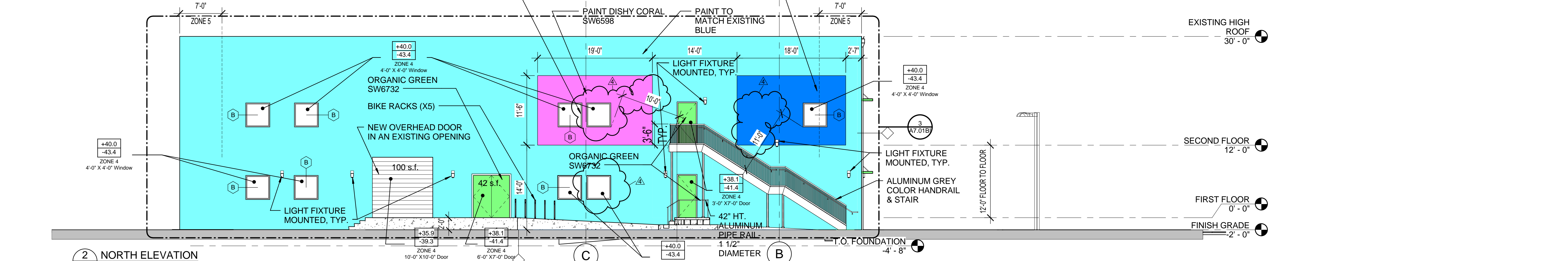
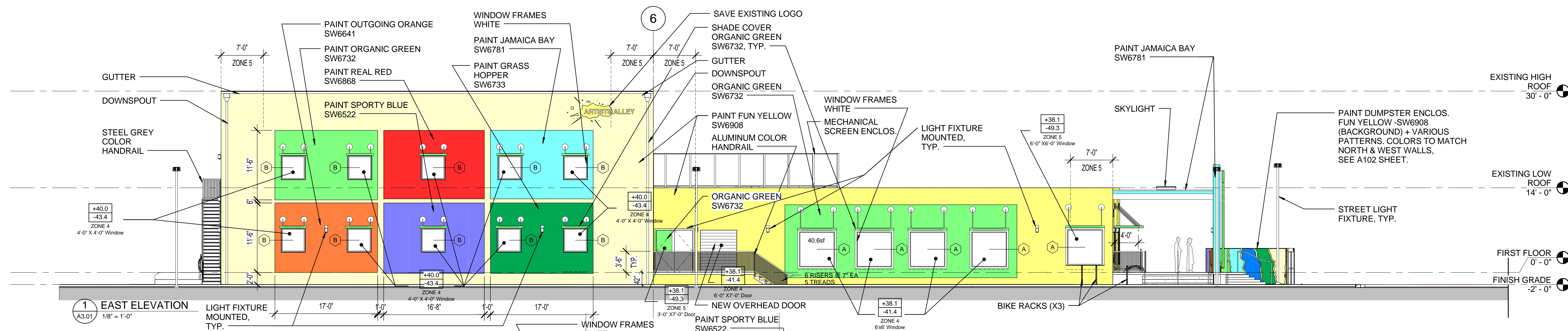
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DRAWING TITLE
ELEVATIONS

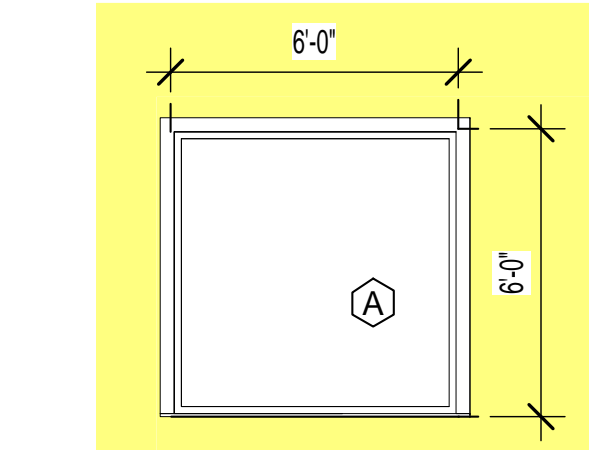
DATE 6/29/2015 | DRAWN BY FN/JC
 JOB NUMBER 100701
 DRAWING NUMBER

A3.01

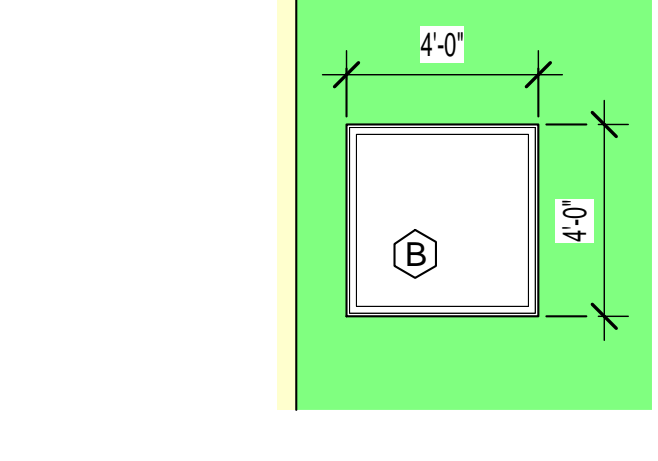
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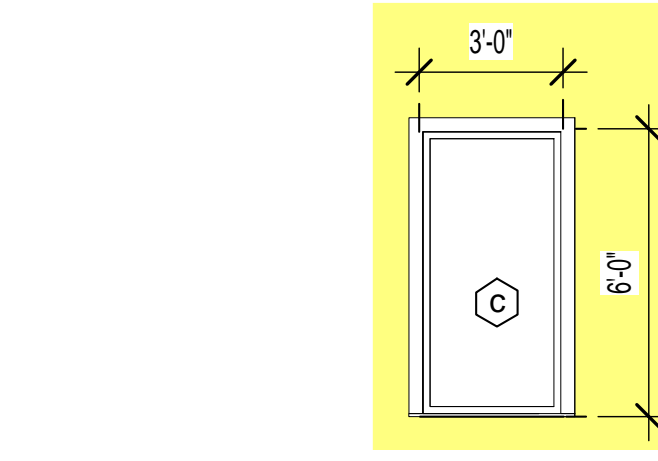
4 D-IMPACT RESISTANT STORE FRONT
 A3.01 1/4" = 1'-0"



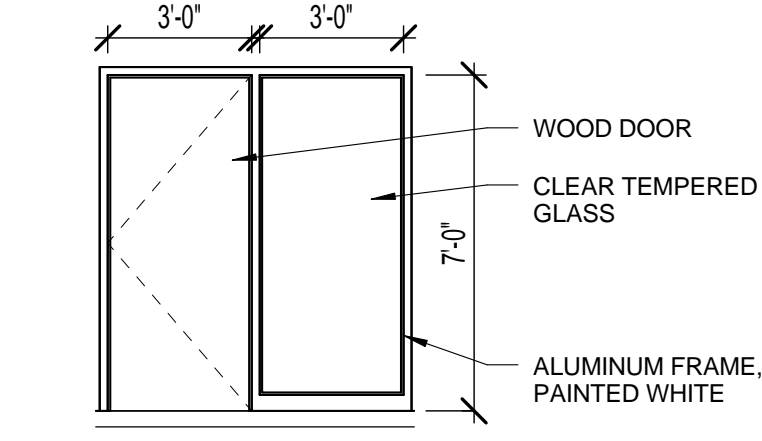
5 A-IMPACT RESISTANT WINDOWS
 A3.01 1/4" = 1'-0"



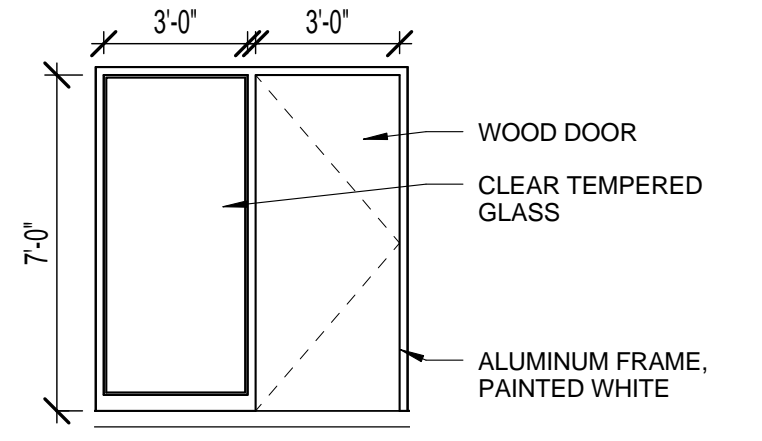
6 B-IMPACT RESISTANT WINDOWS
 A3.01 1/4" = 1'-0"



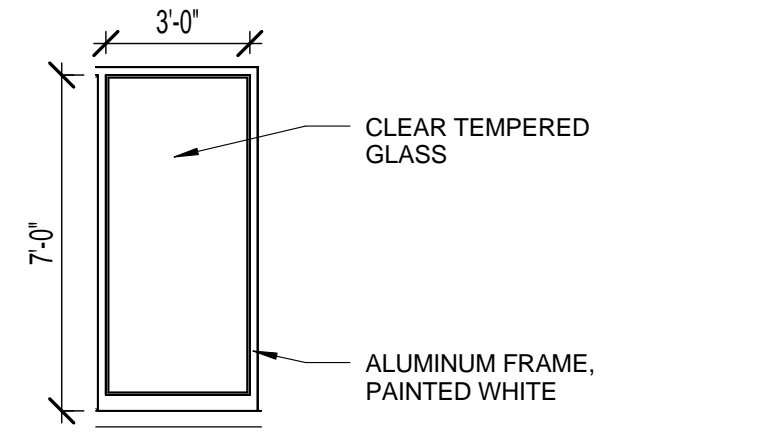
7 C-IMPACT RESISTANT WINDOWS
 A3.01 1/4" = 1'-0"



8 INTERIOR GLASS W/ DOOR 1
 A3.01 1/4" = 1'-0"



9 INTERIOR GLASS W/ DOOR 2
 A3.01 1/4" = 1'-0"



10 INTERIOR GLASS
 A3.01 1/4" = 1'-0"

NOTE: EXTERIOR GLAZING ALL GLASS FIXED, "VIRACON" OR EQUAL, MINIMUM .85 VALUE .47 SHADING CO-EFFICIENT ALUM. FRAMES PAINTED WHITE

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CONSTRUCTION
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PROJECT TITLE
**Art Warehouse
Renovation**

313 NE 3rd Street, Delray
Beach, Florida 33444

NUM.	DESCRIPTION	DATE
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DATE
6/29/2015

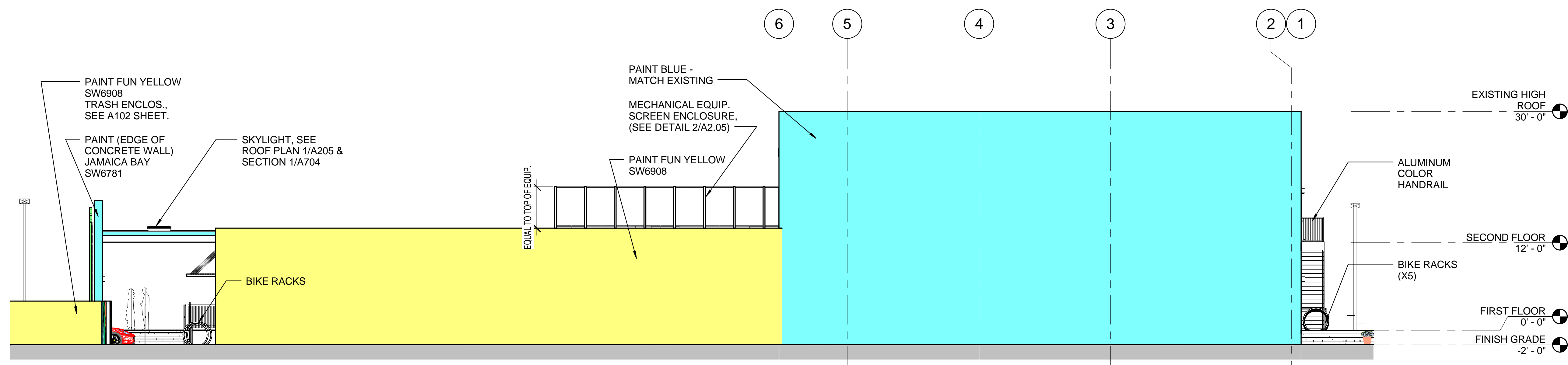
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JOB NUMBER
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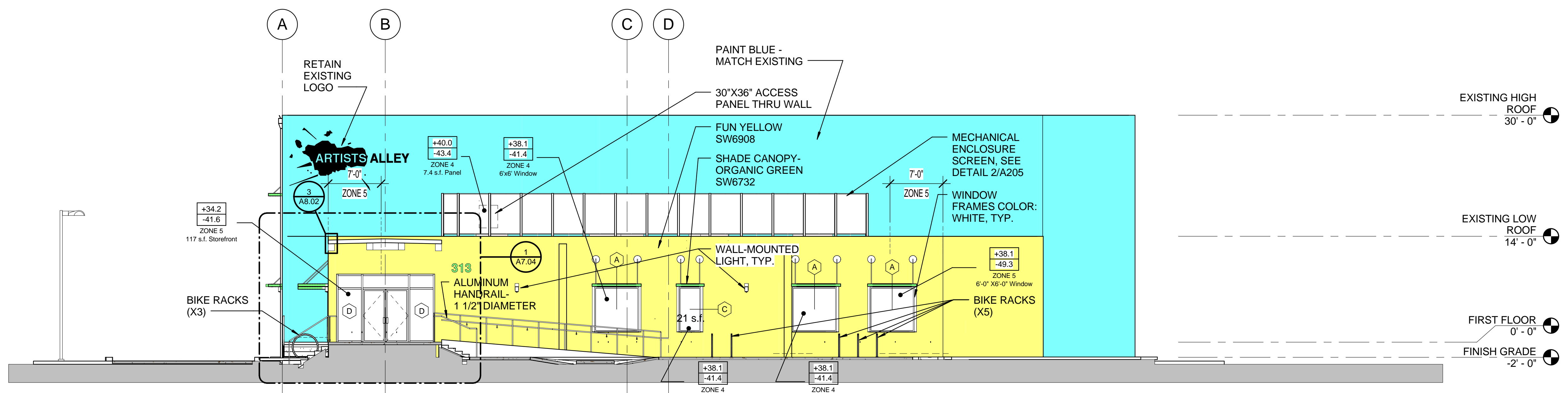
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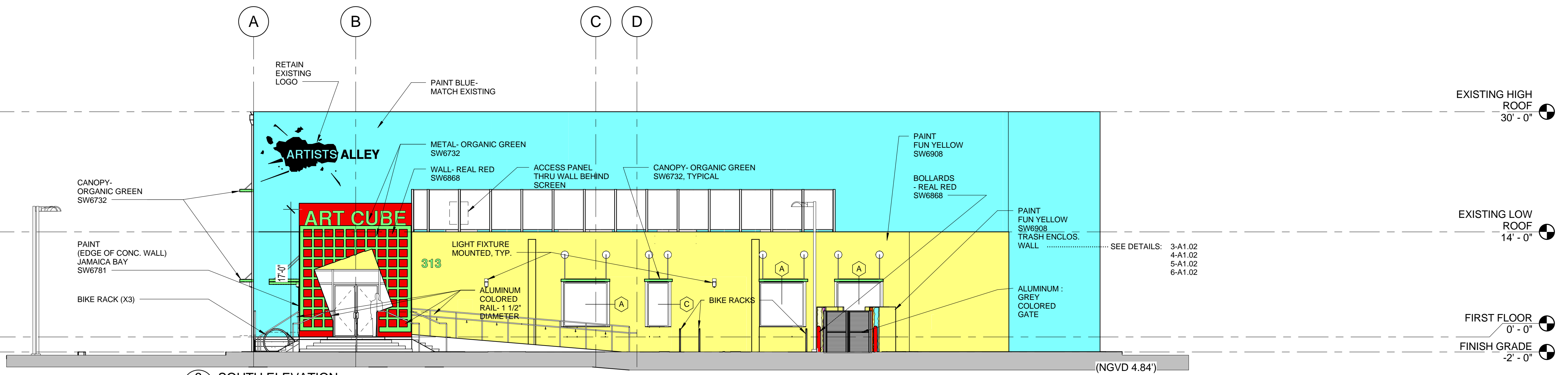
A3.02



1 EAST ELEVATION
A3.02 1/8" = 1'-0"



2 SOUTH ELEVATION WITH FRONT PORCH REMOVED FOR CLARITY
A3.02 1/8" = 1'-0"



3 SOUTH ELEVATION
A3.02 1/8" = 1'-0"

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MM,JC

JOB NUMBER

100701

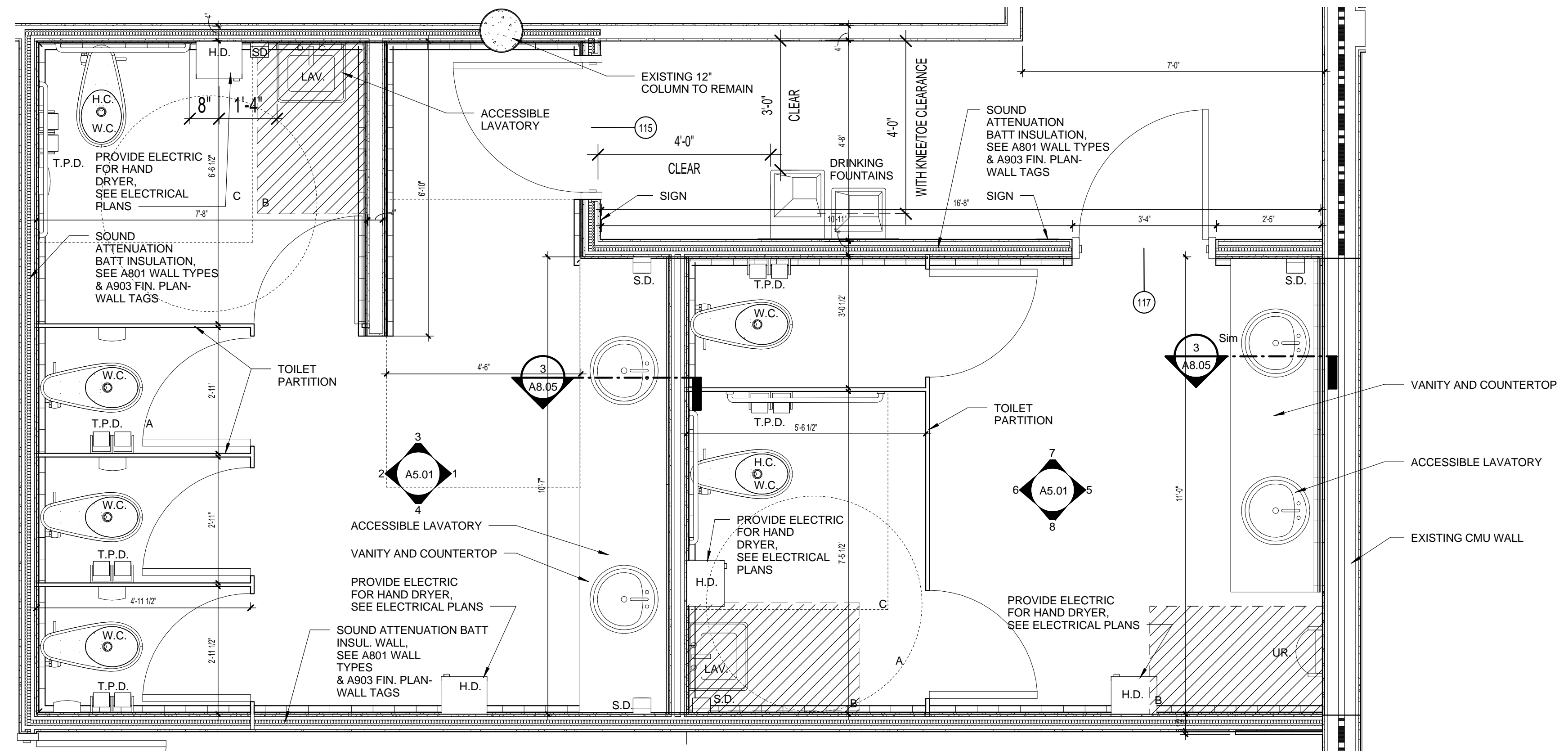
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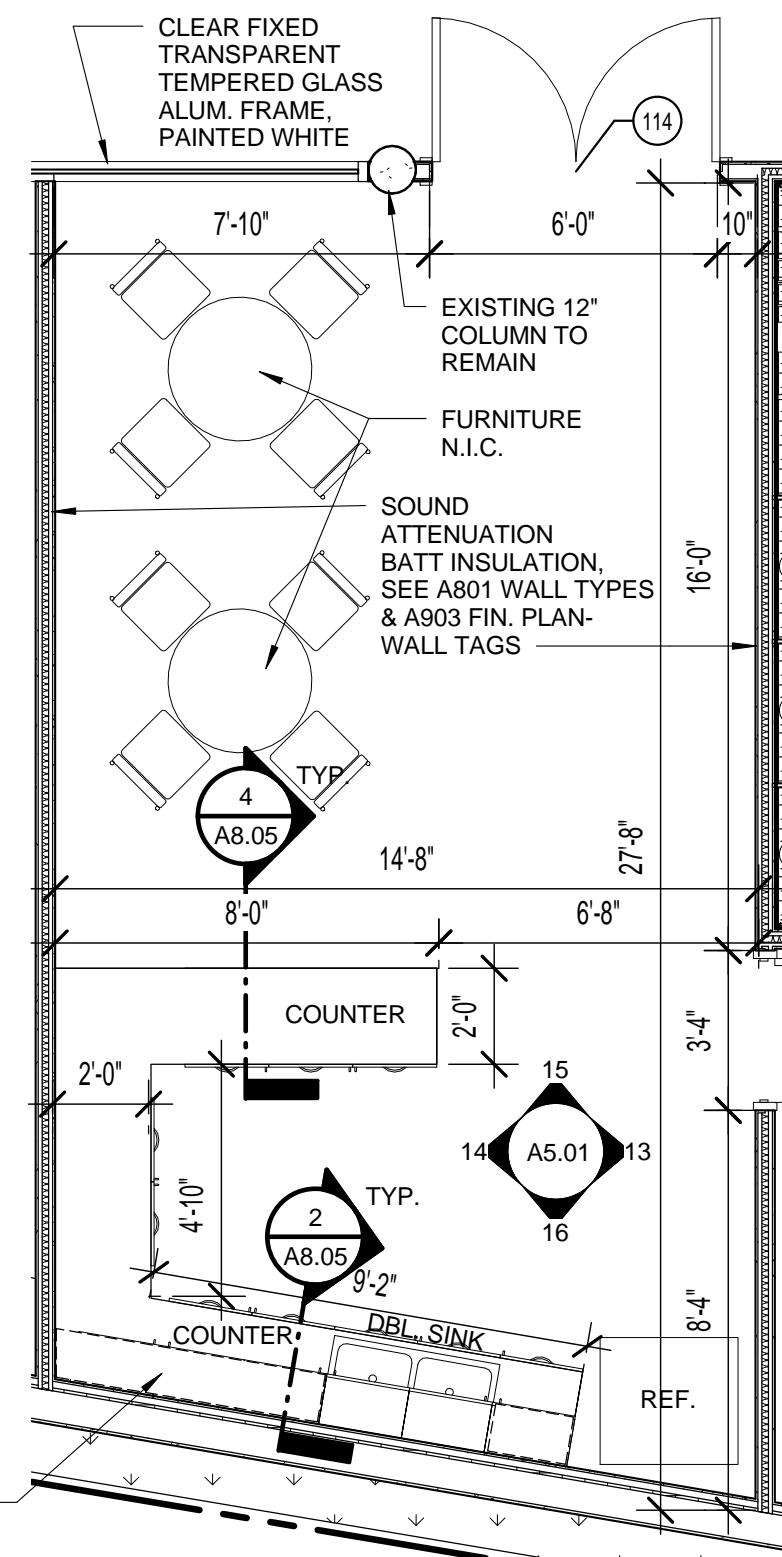
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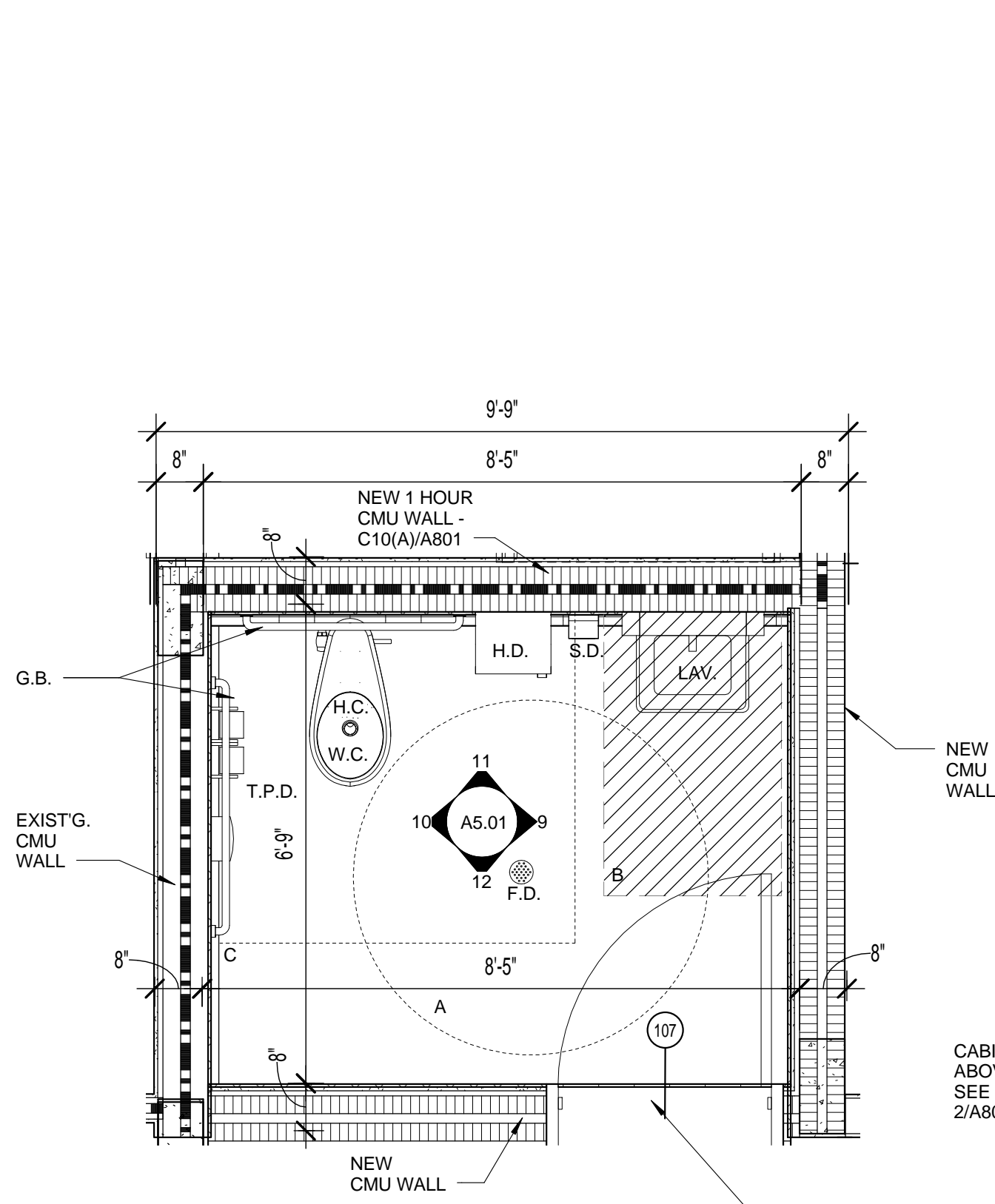
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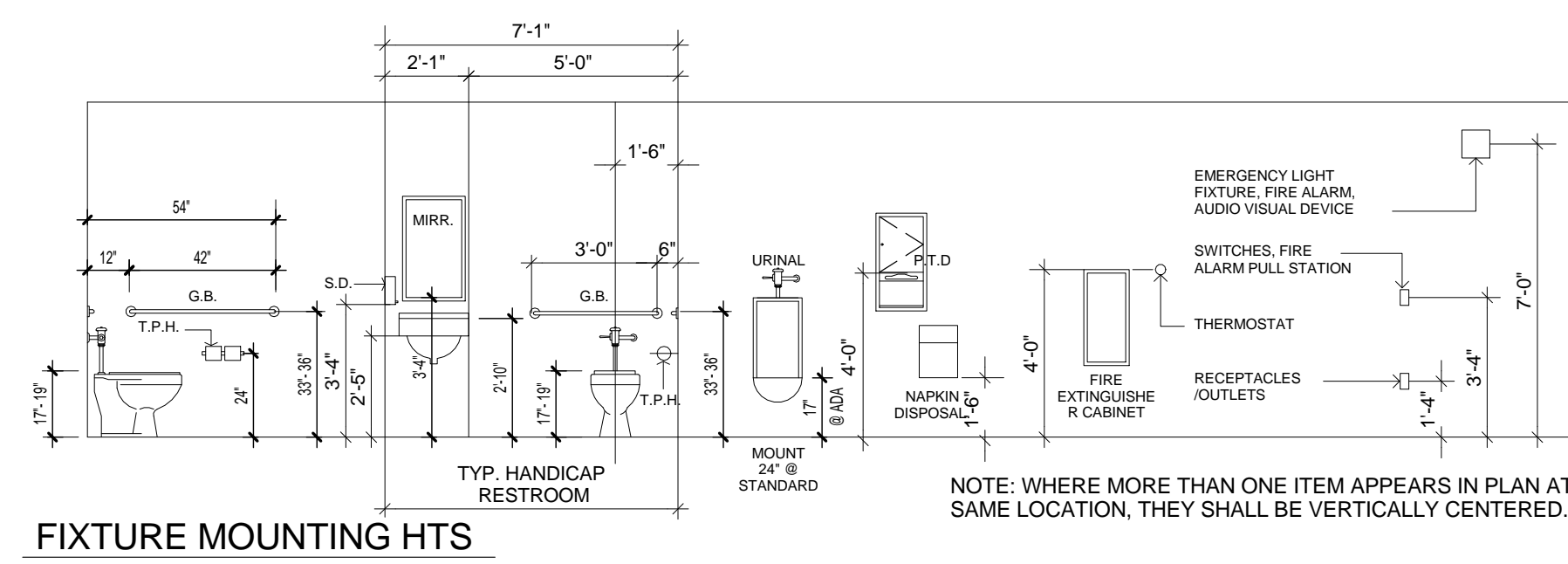
3 ENLARGED PLAN- TOILET ROOM 115/117
A4.01 1/2" = 1'-0"



2 ENLARGED PLAN- BREAK ROOM
A4.01 1/4" = 1'-0"



1 ENLARGED PLAN- TOILET ROOM 107
A4.01 1/2" = 1'-0"



FIXTURE MOUNTING HTS

ABBREVIATIONS / FIXTURE LEGEND	
F.D.	FLOOR DRAIN
H.C.	HANDICAP
G.B.	GRAB BAR
T.P.D.	DOUBLE SURFACE TOILET PAPER DISPENSER
H.D.	HAND DRYER
MIRR.	MIRROR
LAV.	LAVATORY
W.C.	WATER CLOSET
UR.	URINAL
S.D.	WALL MOUNTED SOAP DISPENSER
S.S.	STAINLESS STEEL SHELF
P.T.D.	PAPER TOWEL DISPENSER

- GENERAL NOTES:**
1. ACCESSIBLE CLEAR FLOOR AREAS
 'A' 60" DIA. CLEAR FLOOR TURNAROUND
 'B' 30"x48" CLEAR FLOOR AREA
 'C' 56"x60" WATER CLOSET SPACE
 'D' 54" HINGE APPROACH, PULL SIDE, WITH 42" MIN CLEAR ON THE LATCH SIDE
 2. ALL TOILET ACCESSORIES TO BE ADA COMPLIANT TO BE INSTALLED PER MANUFACTURER'S PUBLISHED INSTRUCTIONS

NOTE: WHERE MORE THAN ONE ITEM APPEARS IN PLAN AT SAME LOCATION, THEY SHALL BE VERTICALLY CENTERED.



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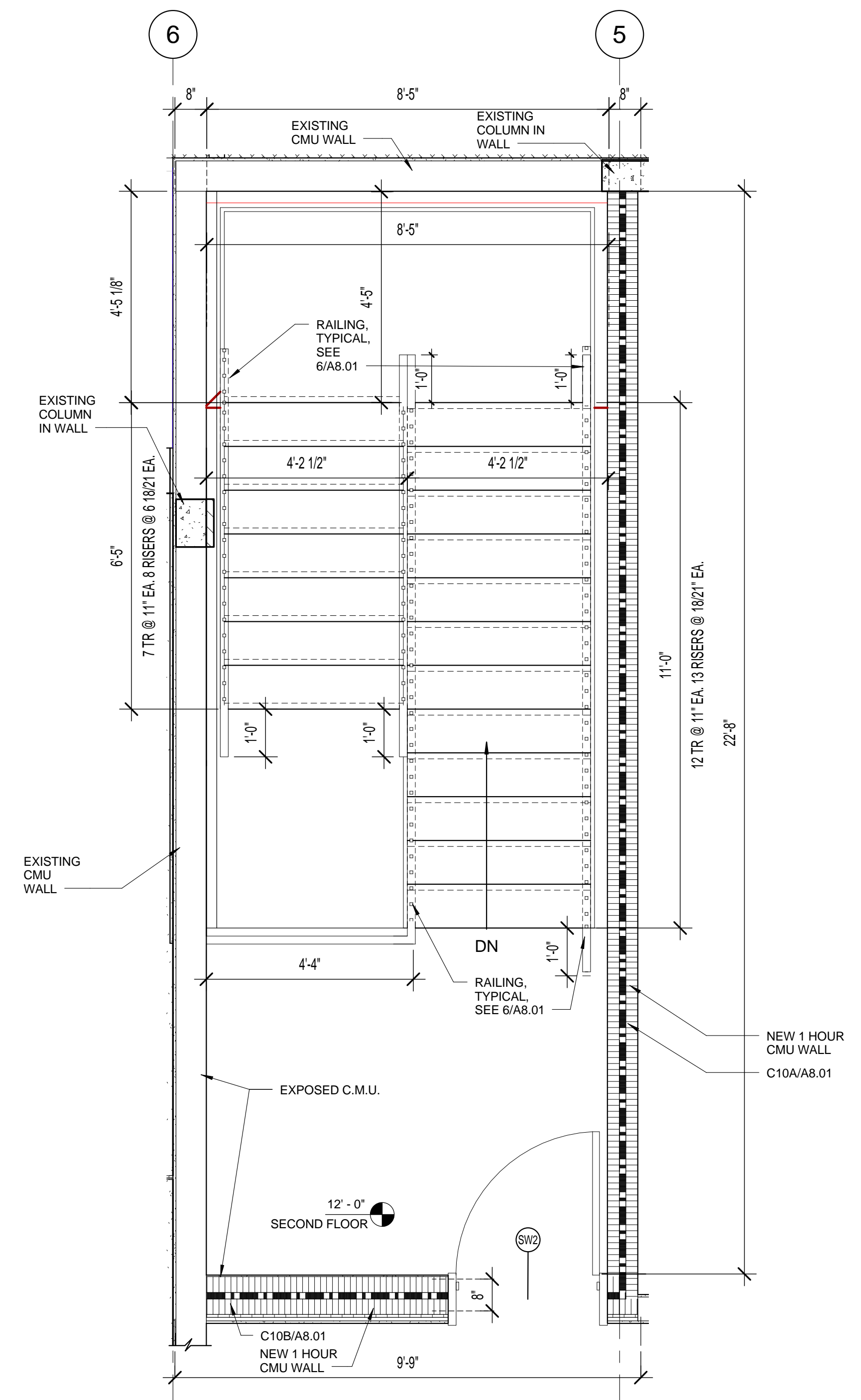
DATE 6/29/2015 DRAWN BY MM,JC

JOB NUMBER 100701

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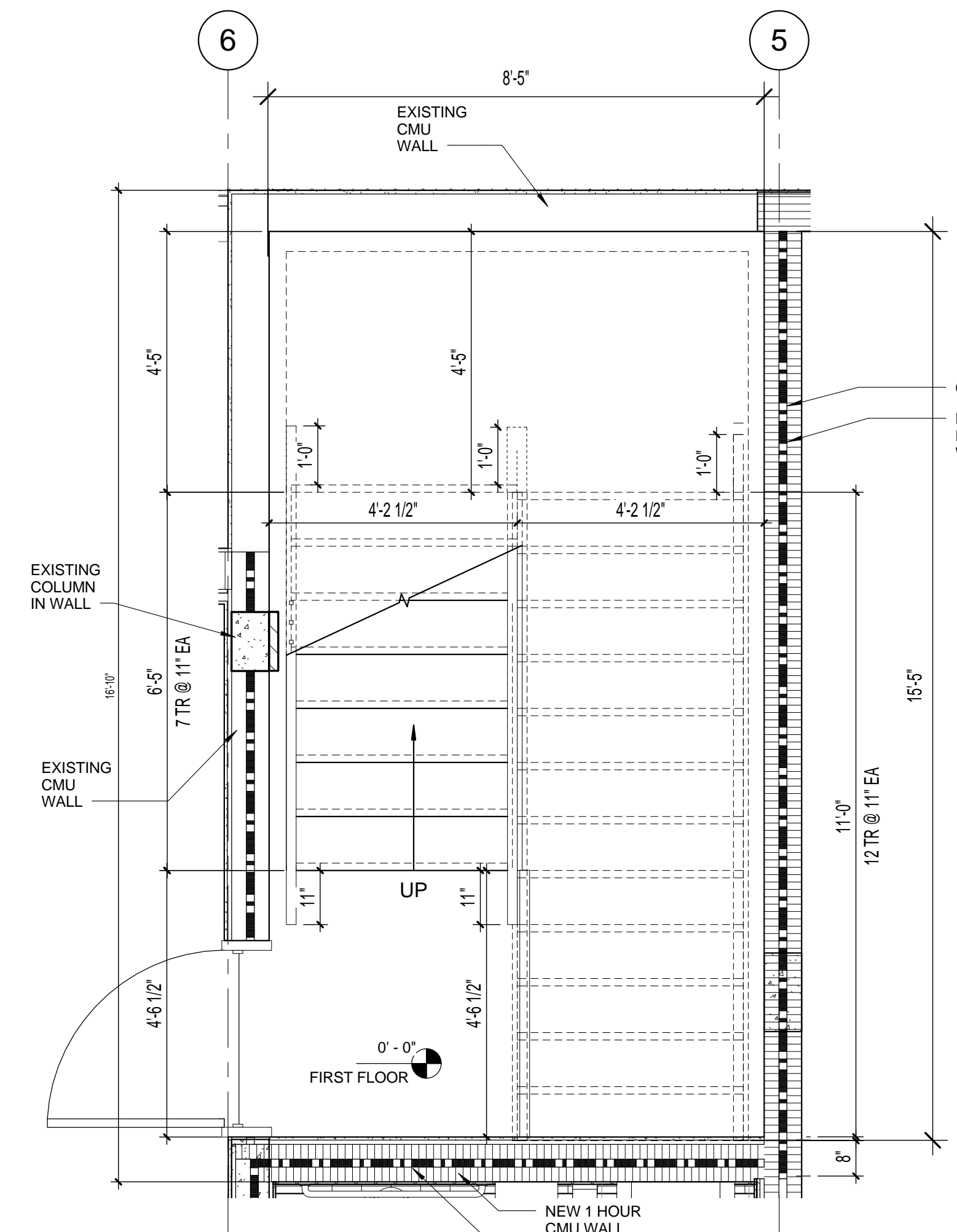
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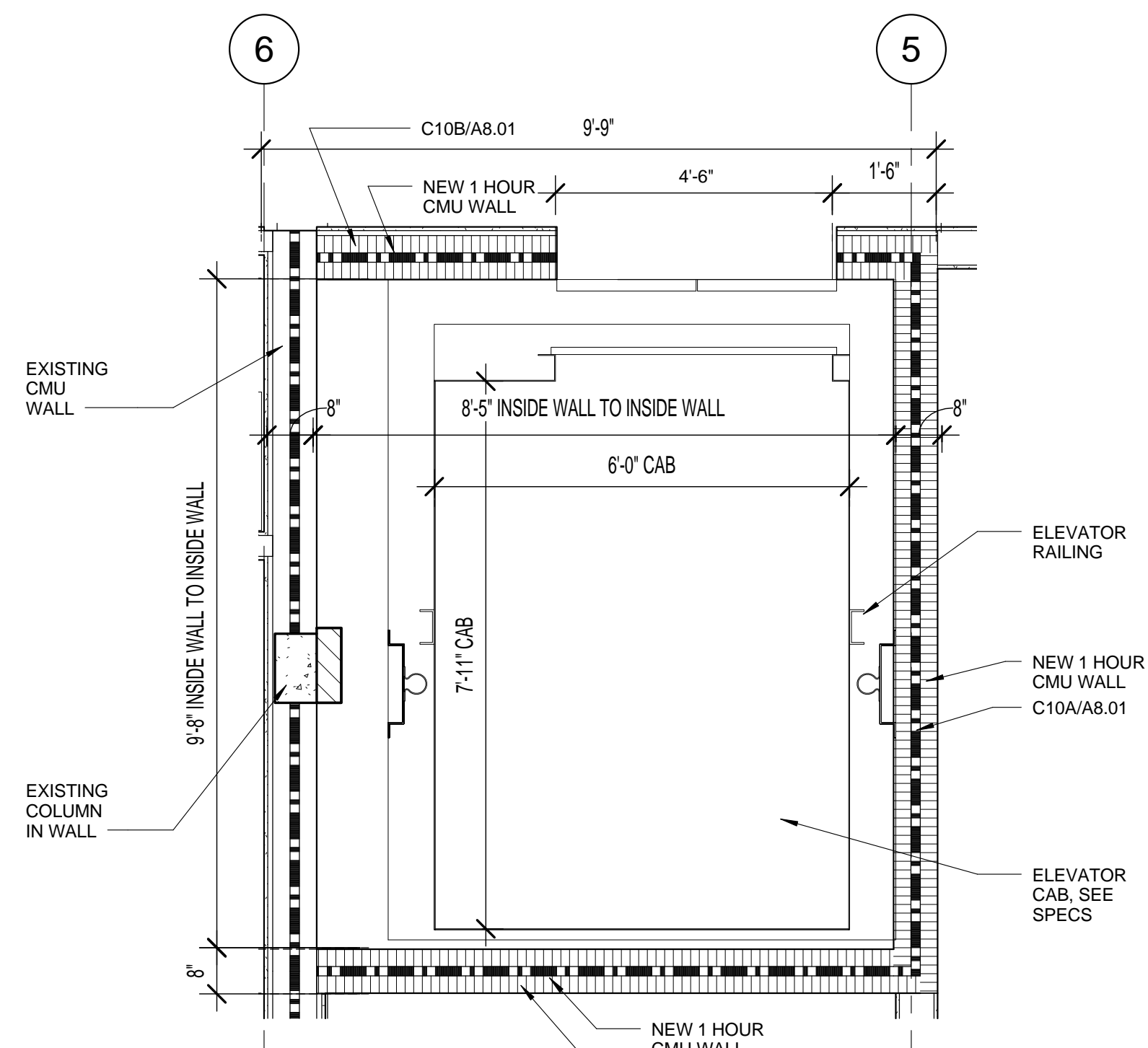


1 ENLARGED STAIR 1-SECOND FLOOR
A4.02 1/2" = 1'-0"

CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR METAL STAIRS AND RAILINGS.
21 RISERS @ 6.85" EACH
19 TREADS @ 11" EACH



3 INTERIOR STAIR- FIRST FLOOR
A4.02 1/2" = 1'-0"



7 ENLARGED ELEVATOR PLAN
A4.02 1/2" = 1'-0"

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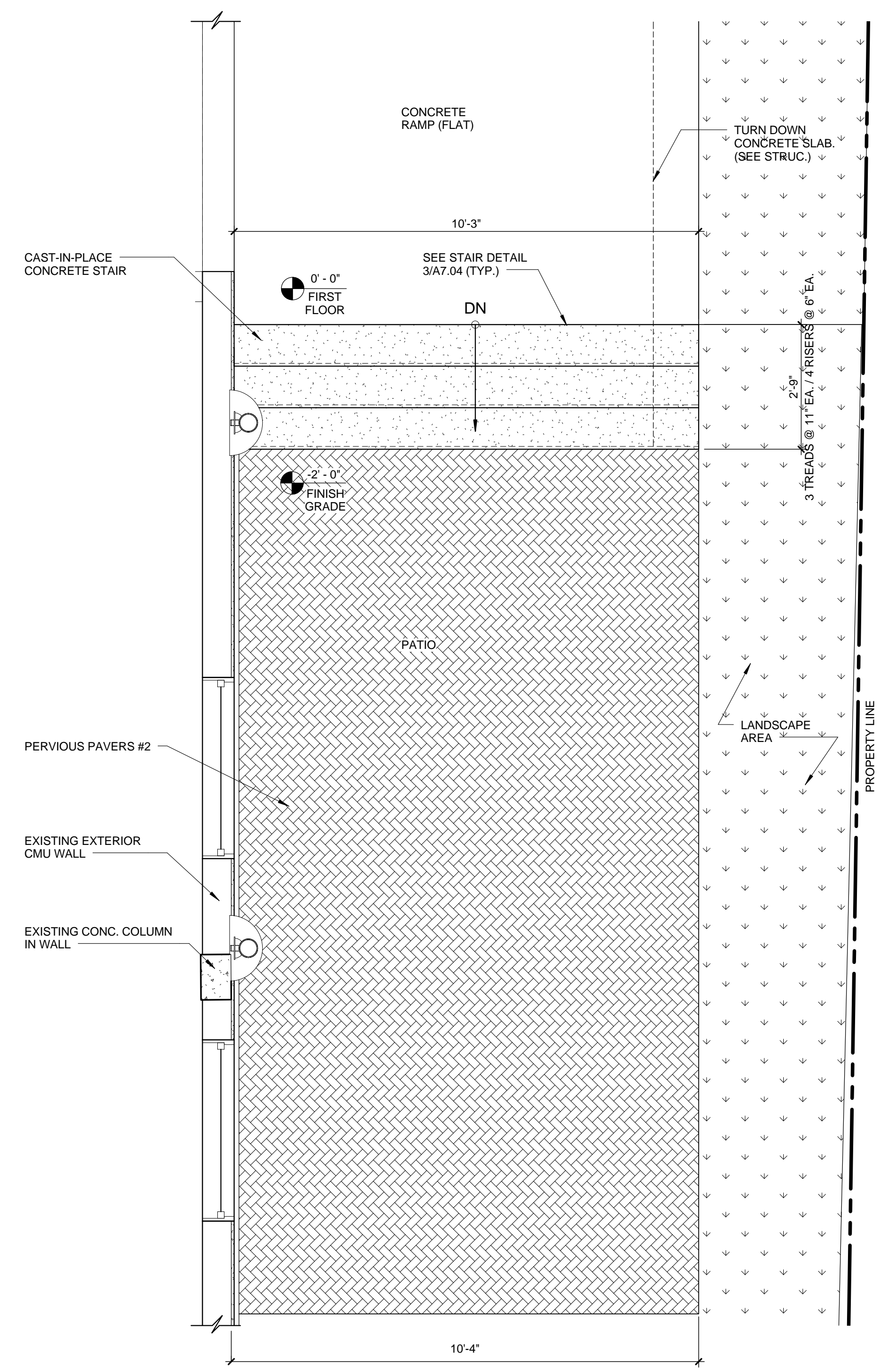
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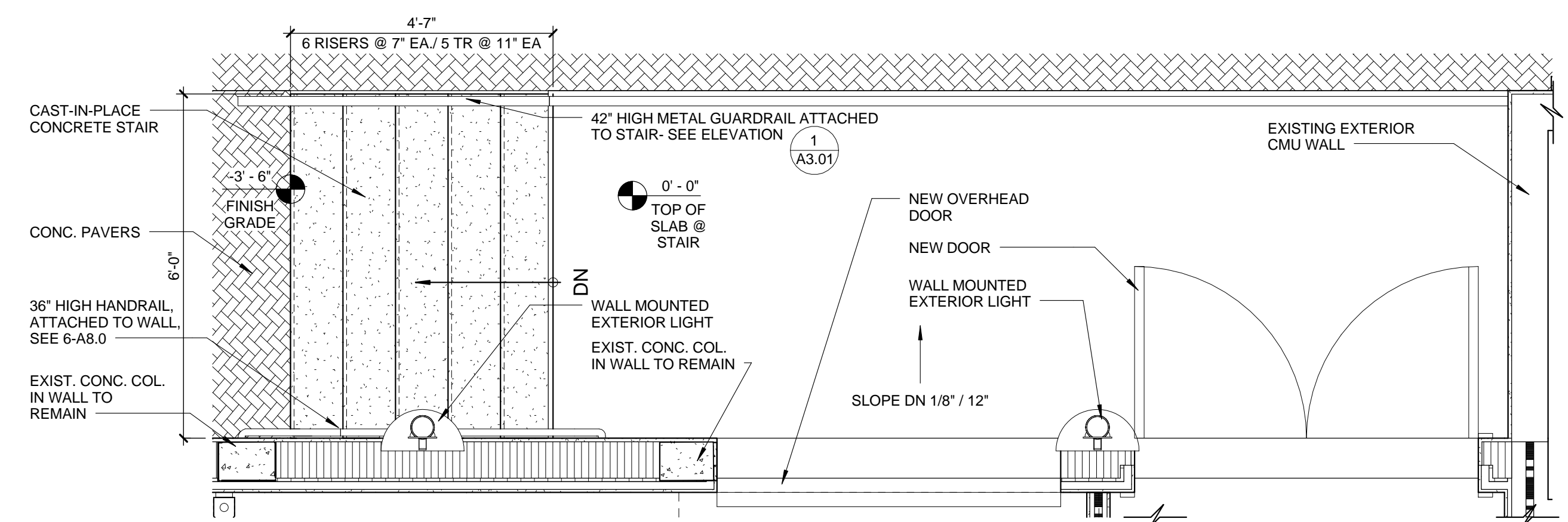
DRAWING NUMBER

A4.03

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2 ENLARGED PLAN- REAR PATIO & STAIR
A4.03 1/2" = 1'-0"



1 ENLARGED STAIR- WEST EXTERIOR
A4.03 1/2" = 1'-0"

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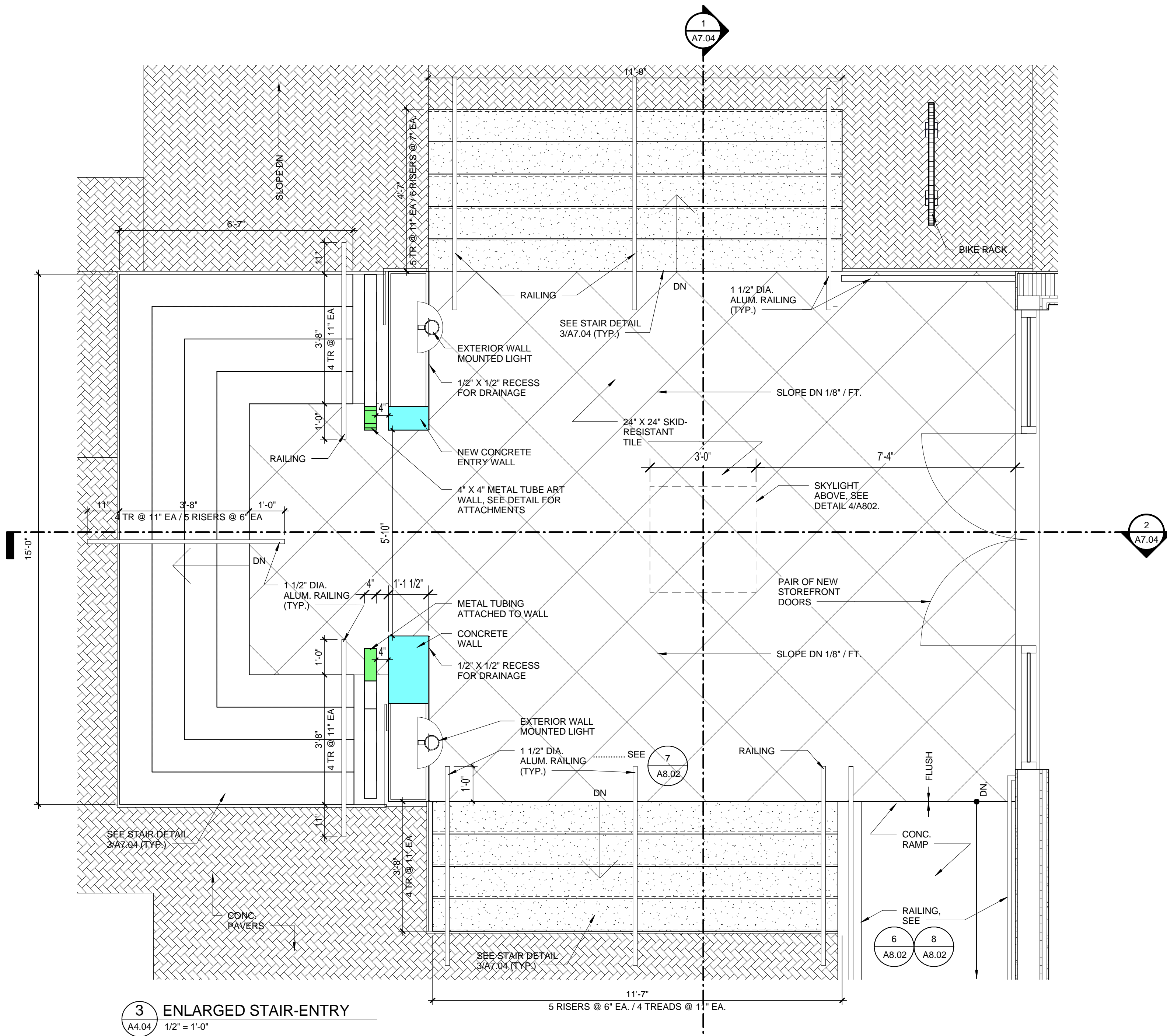
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DRAWING TITLE
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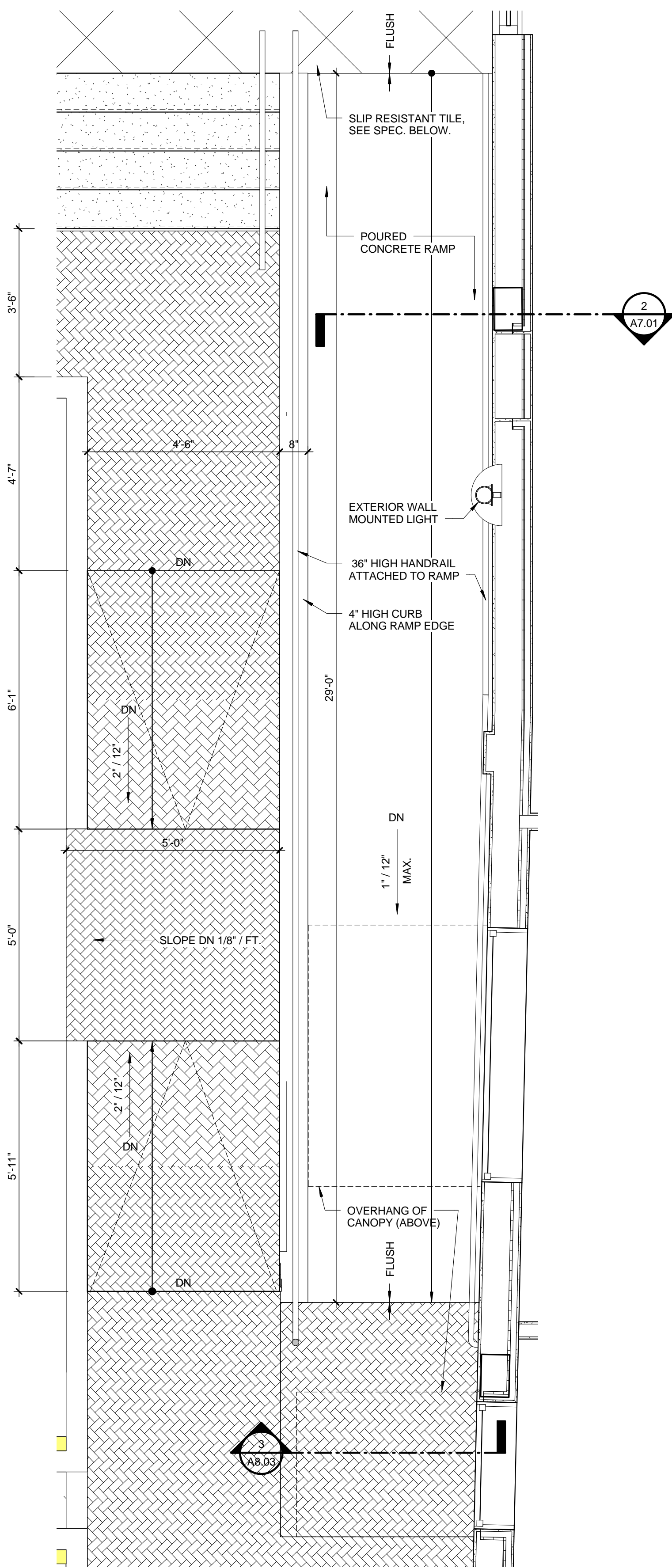
DATE 6/29/2015 DRAWN BY MM, JC
JOB NUMBER 100701
DRAWING NUMBER

A4.04

PERMIT SET 6/29/2015



3 ENLARGED STAIR-ENTRY
A4.04 1/2" = 1'-0"



4 ENLARGED PLAN- RAMP
A4.04 1/2" = 1'-0"

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Beach, Florida 33444

REVISIONS

NUM.	DESCRIPTION	DATE
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INTERIOR
ELEVATION

DATE

6/29/2015

DRAWN BY

MM

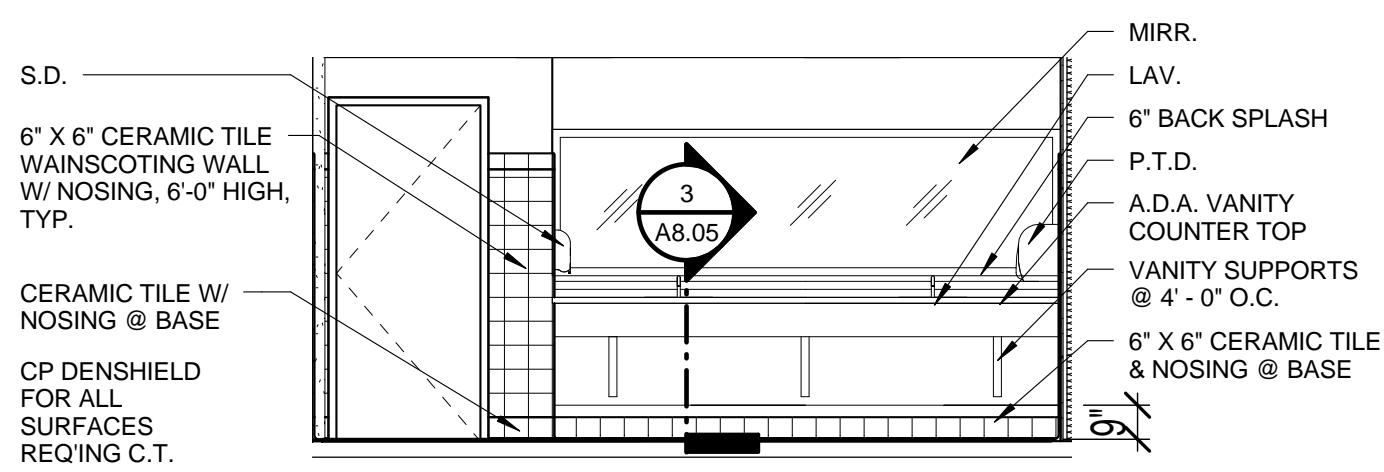
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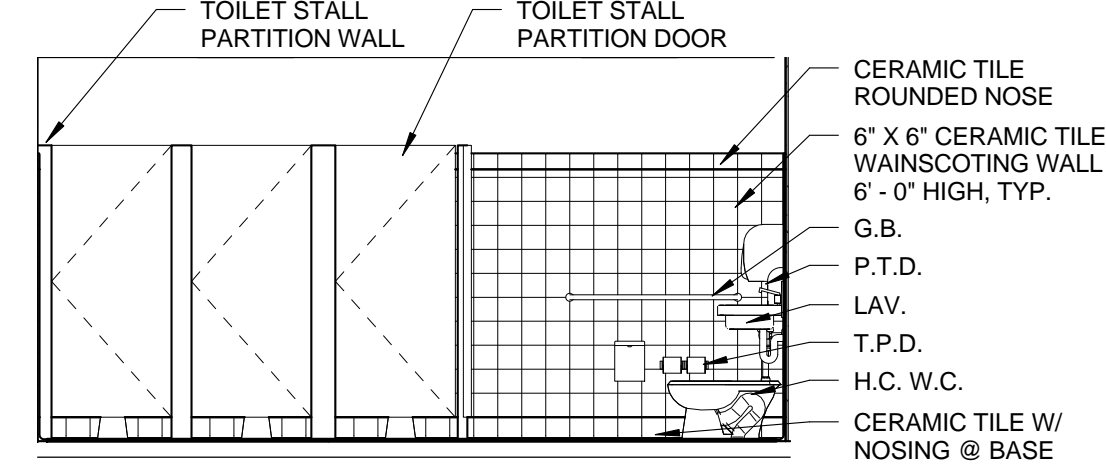
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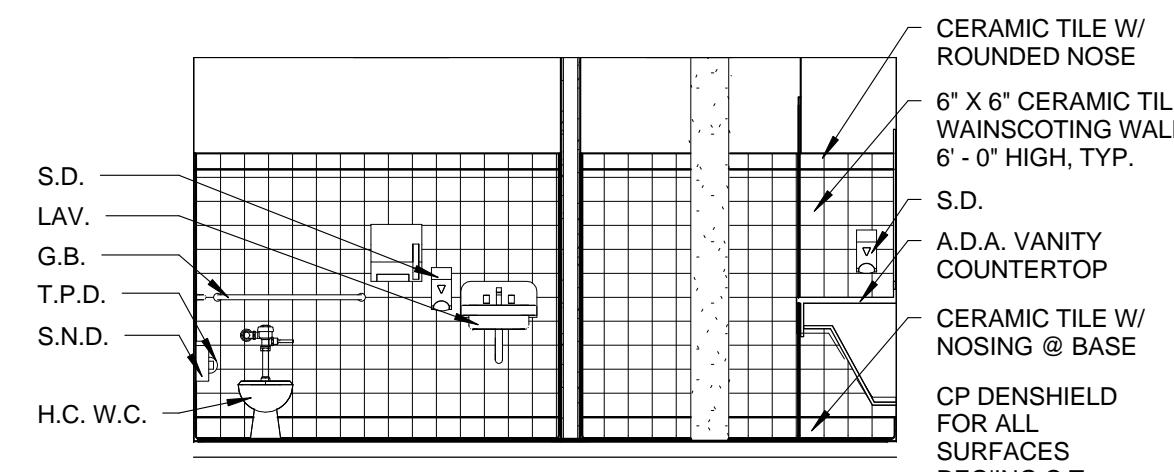
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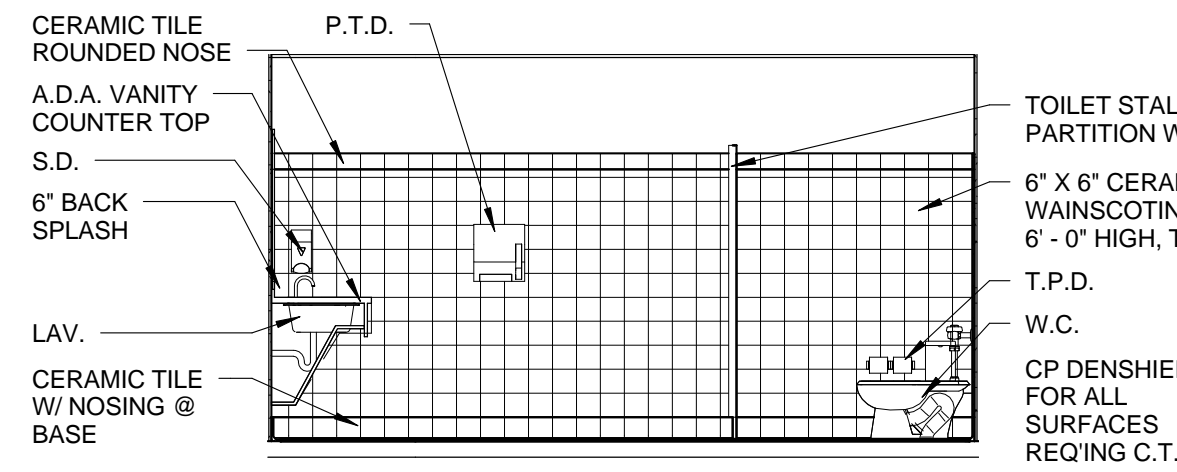
1 TOILET 115-N
A5.01 1/4" = 1'-0"



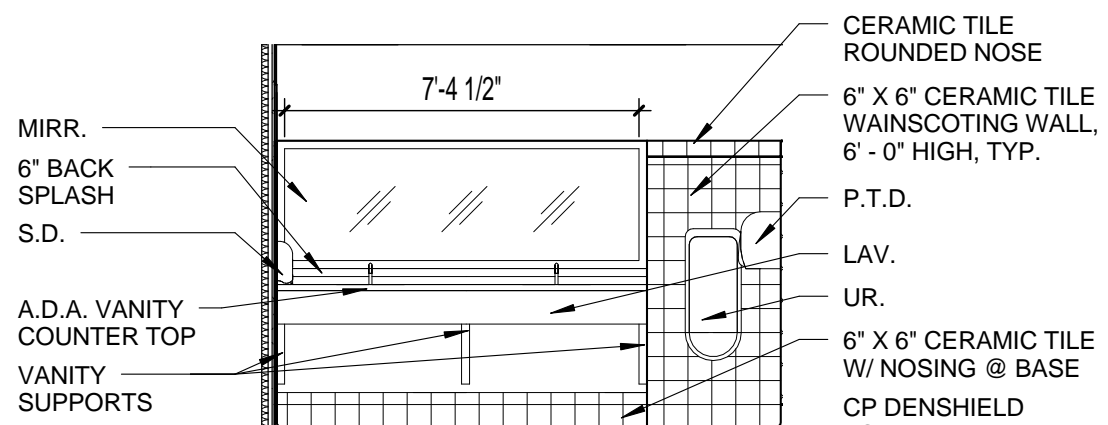
2 TOILET 115-S
A5.01 1/4" = 1'-0"



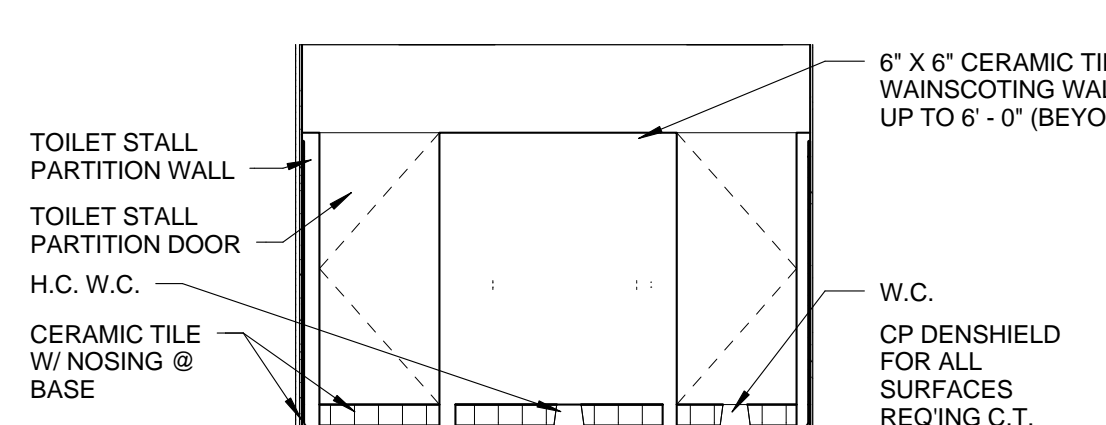
3 TOILET 115-W
A5.01 1/4" = 1'-0"



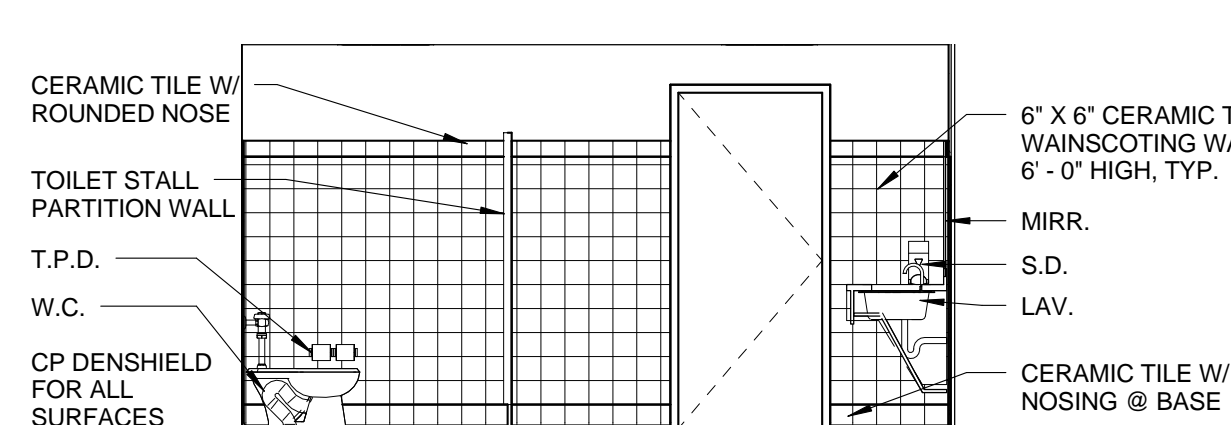
4 TOILET 115-E
A5.01 1/4" = 1'-0"



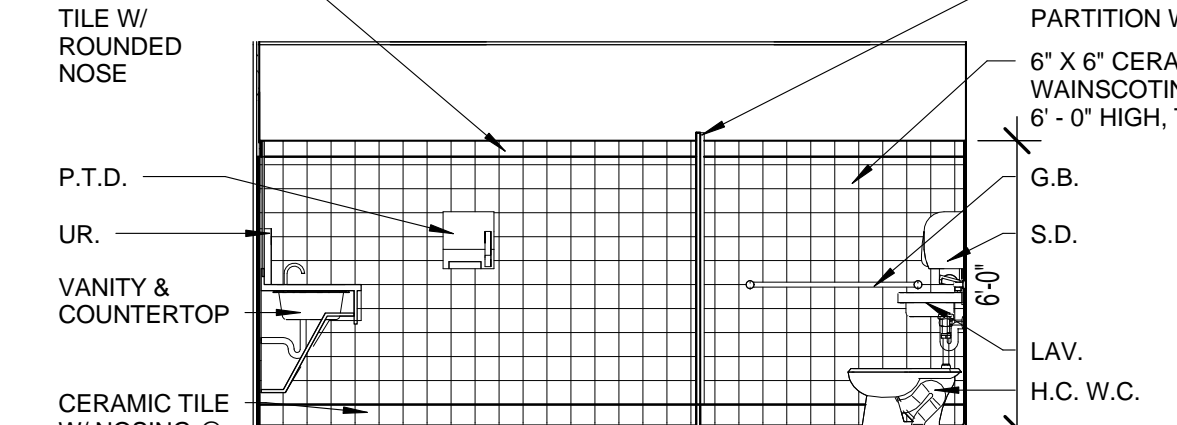
5 TOILET 117-N
A5.01 1/4" = 1'-0"



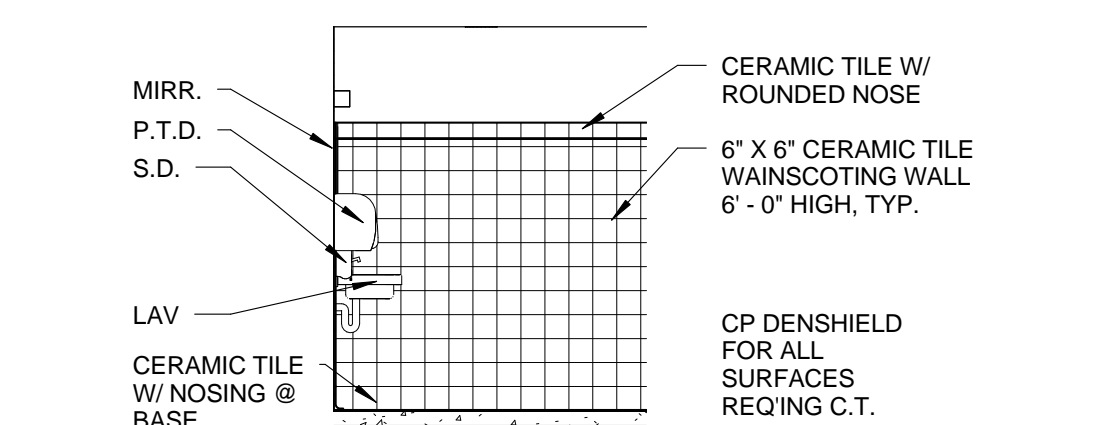
6 TOILET 117-S
A5.01 1/4" = 1'-0"



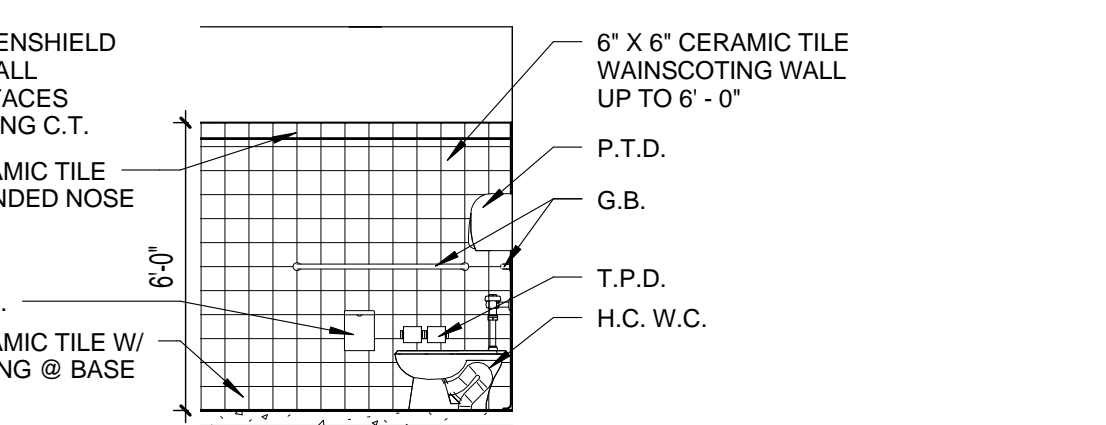
7 TOILET 117-W
A5.01 1/4" = 1'-0"



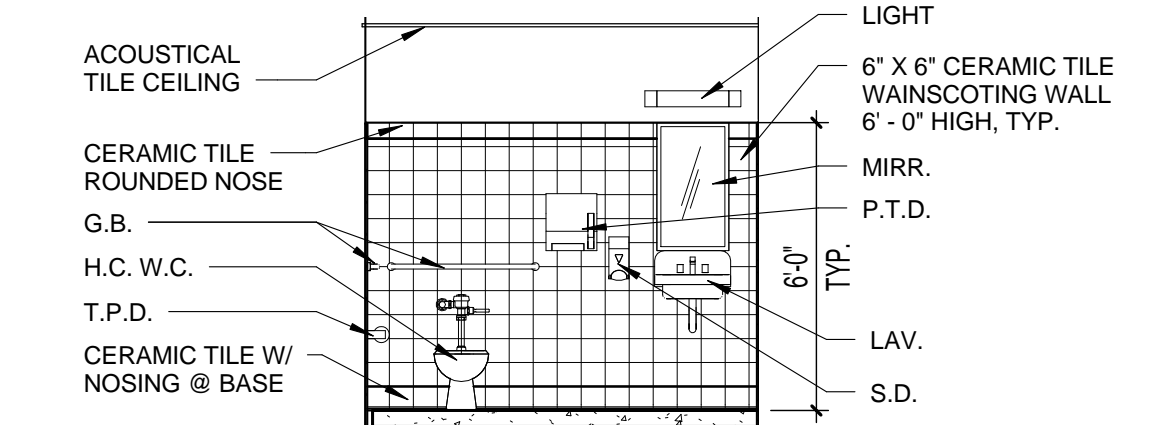
8 TOILET 117-E
A5.01 1/4" = 1'-0"



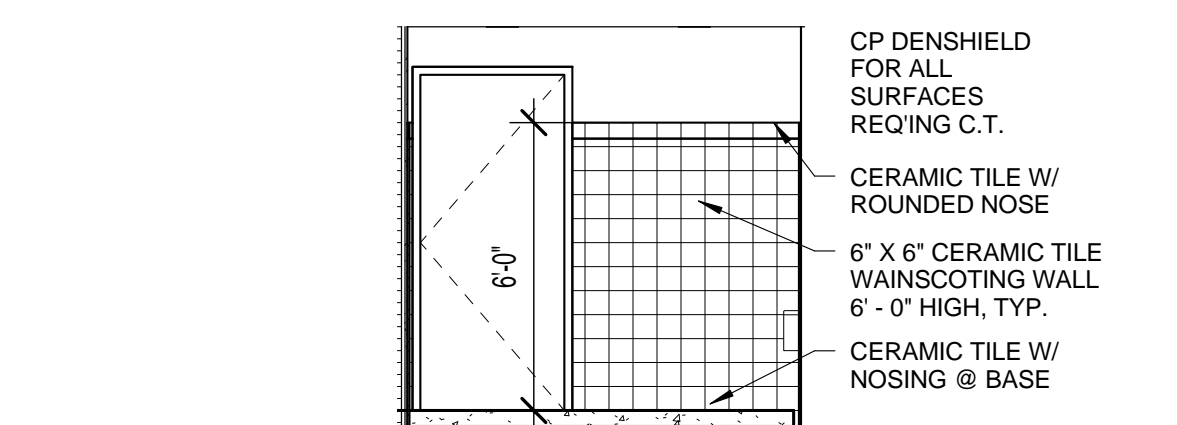
9 TOILET 107-N
A5.01 1/4" = 1'-0"



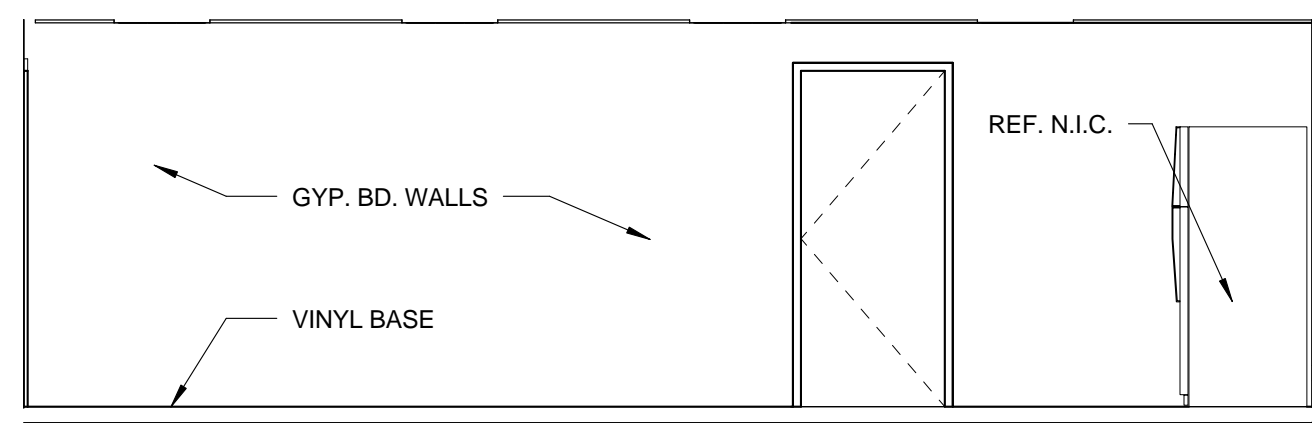
10 TOILET 107-S
A5.01 1/4" = 1'-0"



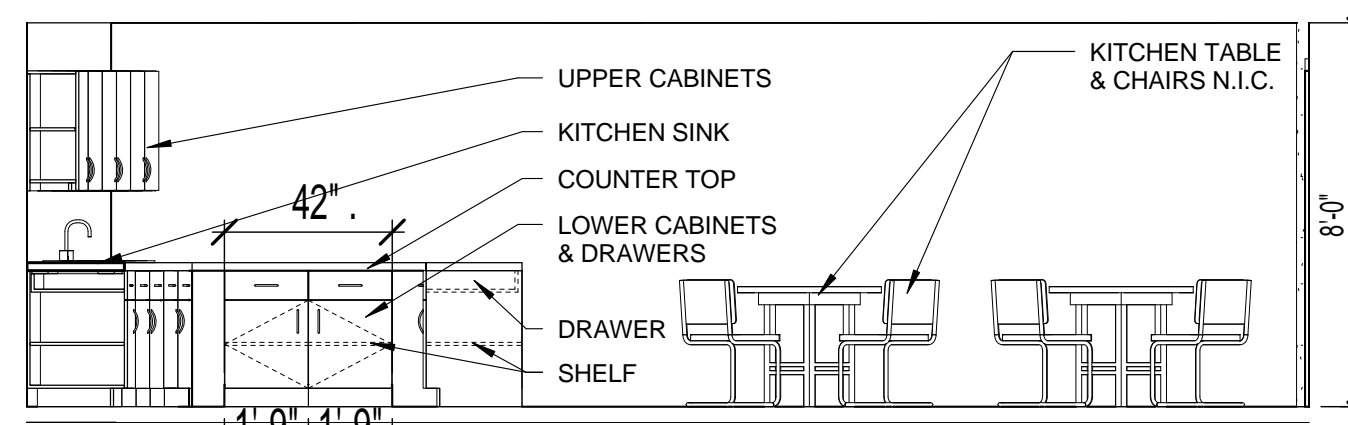
11 TOILET 107-W
A5.01 1/4" = 1'-0"



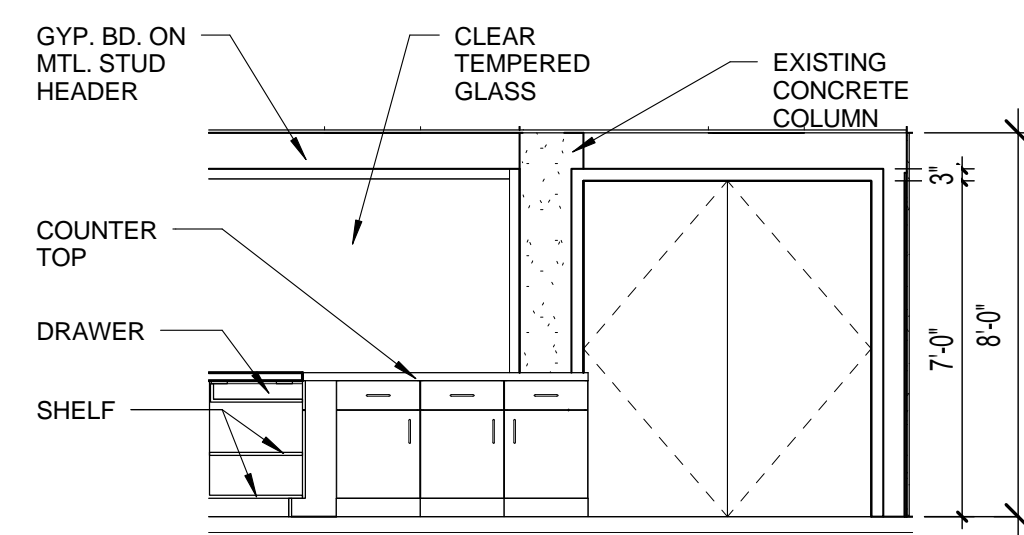
12 TOILET 107-E
A5.01 1/4" = 1'-0"



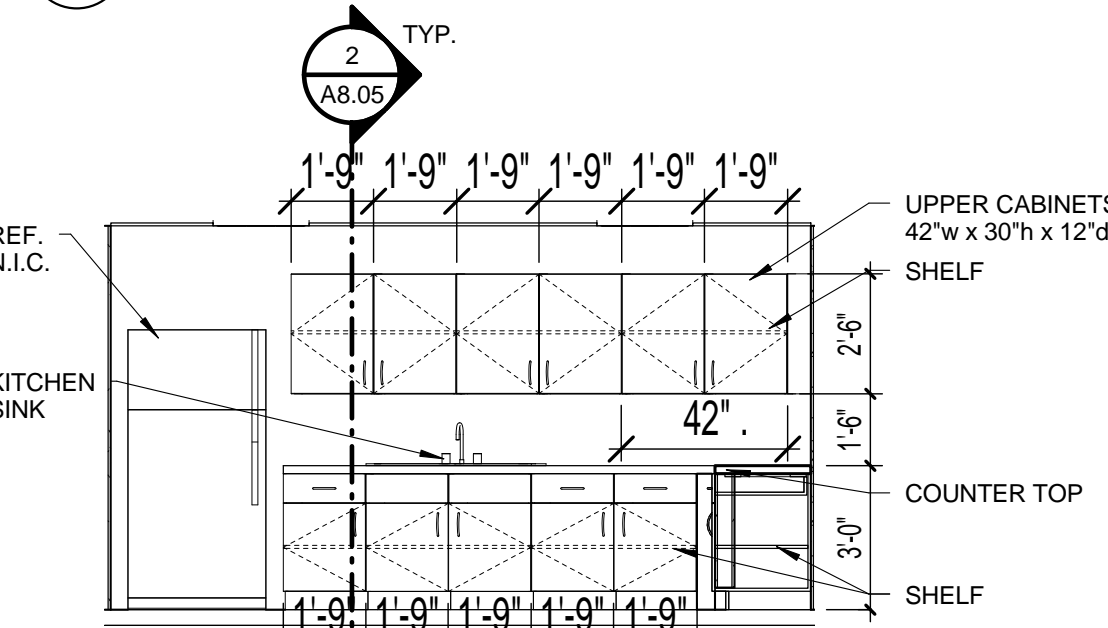
13 BREAK ROOM 114-N
A5.01 1/4" = 1'-0"



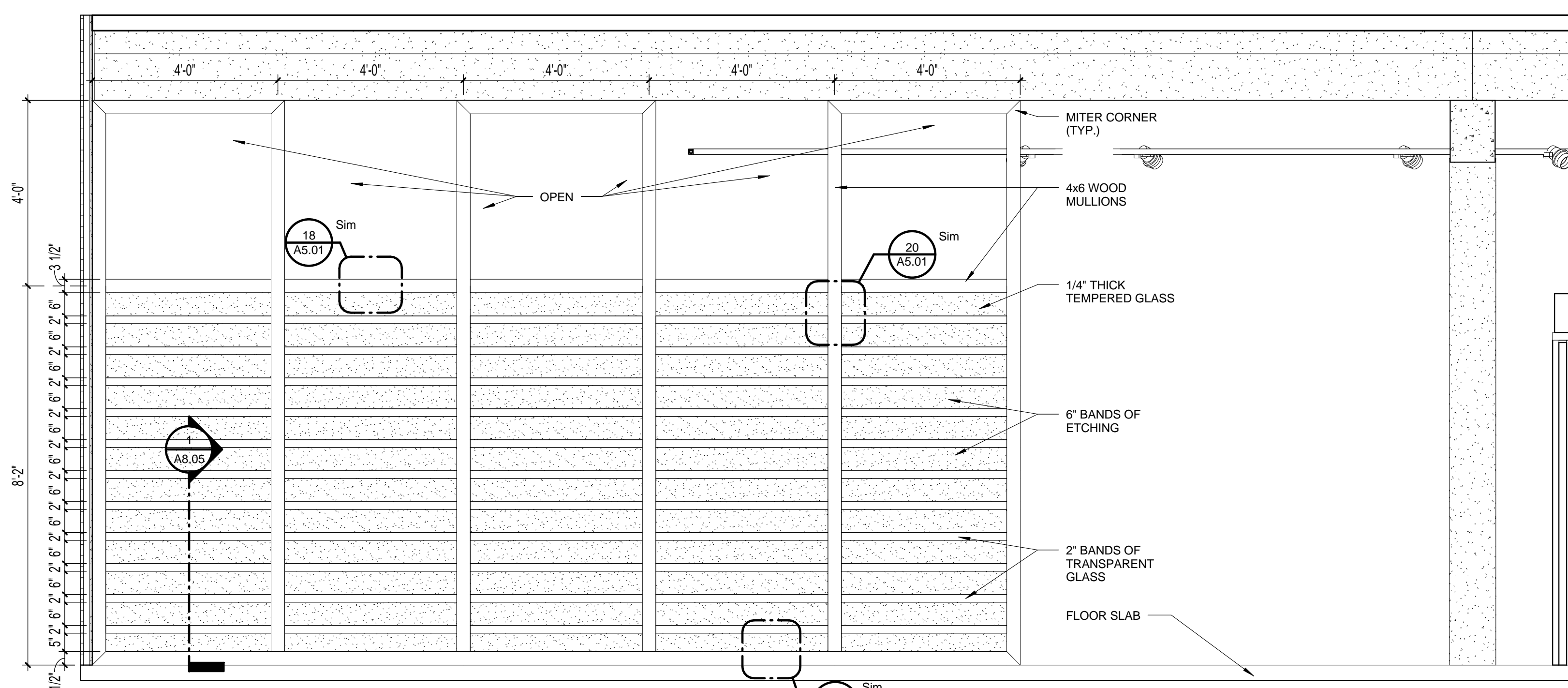
14 BREAK ROOM 114-S
A5.01 1/4" = 1'-0"



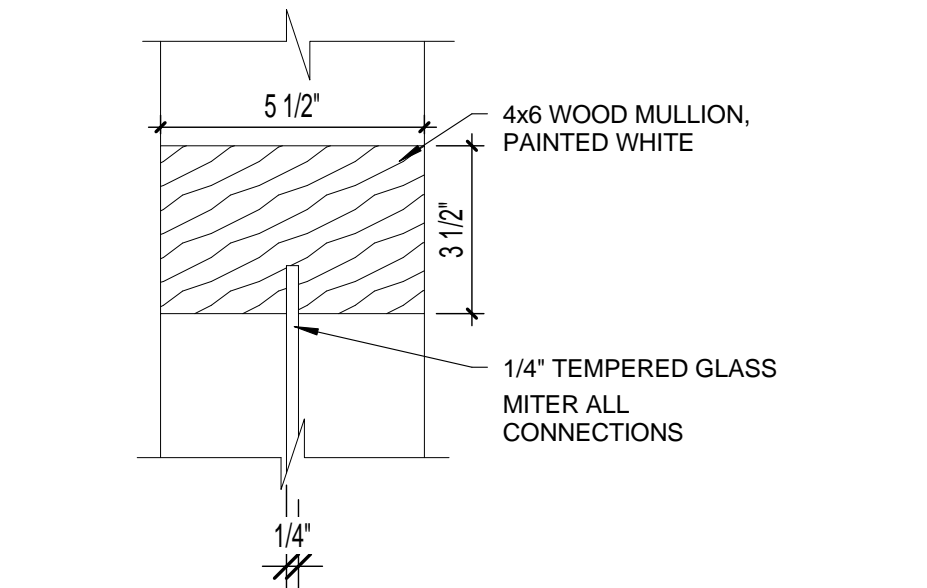
15 BREAK ROOM 114-W
A5.01 1/4" = 1'-0"



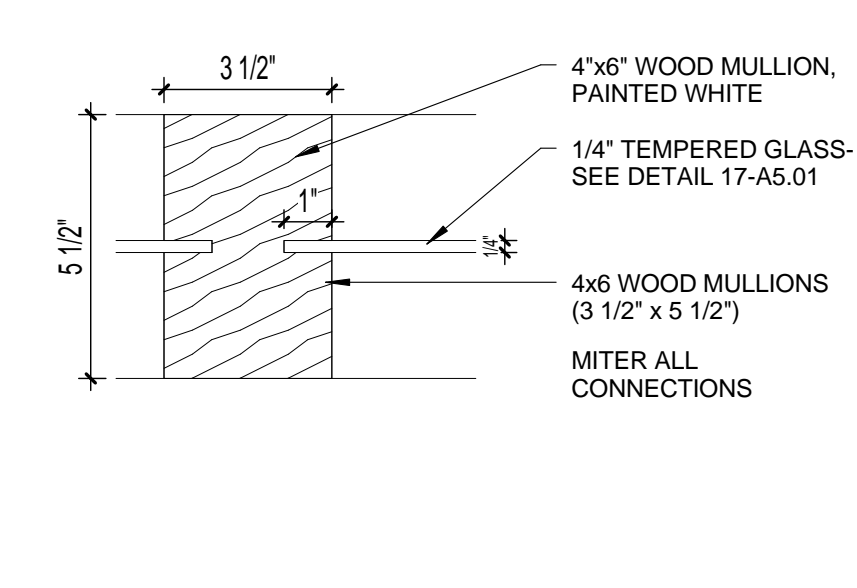
16 BREAK ROOM 114-E
A5.01 1/4" = 1'-0"



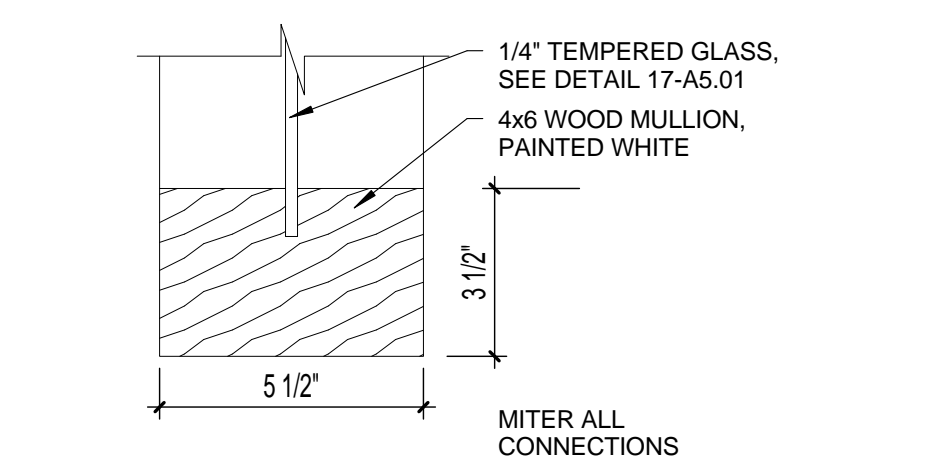
17 RECEPTION GLASS WALL ELEVATION
A5.01 1/2" = 1'-0"



18 ENTRYWAY GLASS WALL DETAIL- HEAD
A5.01 3" = 1'-0"



20 ENTRYWAY GLASS WALL DETAIL- JAMB
A5.01 3" = 1'-0"



19 ENTRYWAY GLASS WALL DETAIL- SILL
A5.01 3" = 1'-0"

ABBREVIATIONS / FIXTURE LEGEND

H.C.	HANDICAP
G.B.	GRAB BAR
T.P.D.	DOUBLE SURFACE TOILET PAPER
H.D.	HAND DRYER
MIRR.	MIRROR
LAV.	LAVATORY
W.C.	WATER CLOSET
UR.	URINAL
S.D.	WALL MOUNTED SOAP DISPENSER
P.T.D.	PAPER TOWEL DISPENSER
S.N.D.	SANITARY NAPKIN DISPOSAL

GENERAL NOTES:

- ACCESSIBLE CLEAR FLOOR AREAS
A' 60" DIA. CLEAR FLOOR TURNAROUND
B' 30"x48" CLEAR FLOOR AREA
C' 56"x60" WATER CLOSET SPACE
D' 54" HINGE APPROACH, PULL SIDE, WITH 42" MIN CLEAR ON THE LATCH SIDE
- ALL TOILET ACCESSORIES TO BE ADA COMPLIANT TO BE INSTALLED PER MANUFACTURER'S PUBLISHED INSTRUCTIONS



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REVISIONS		
NUM.	DESCRIPTION	DATE
1	Bldg. Dept. comments	8/21/2015
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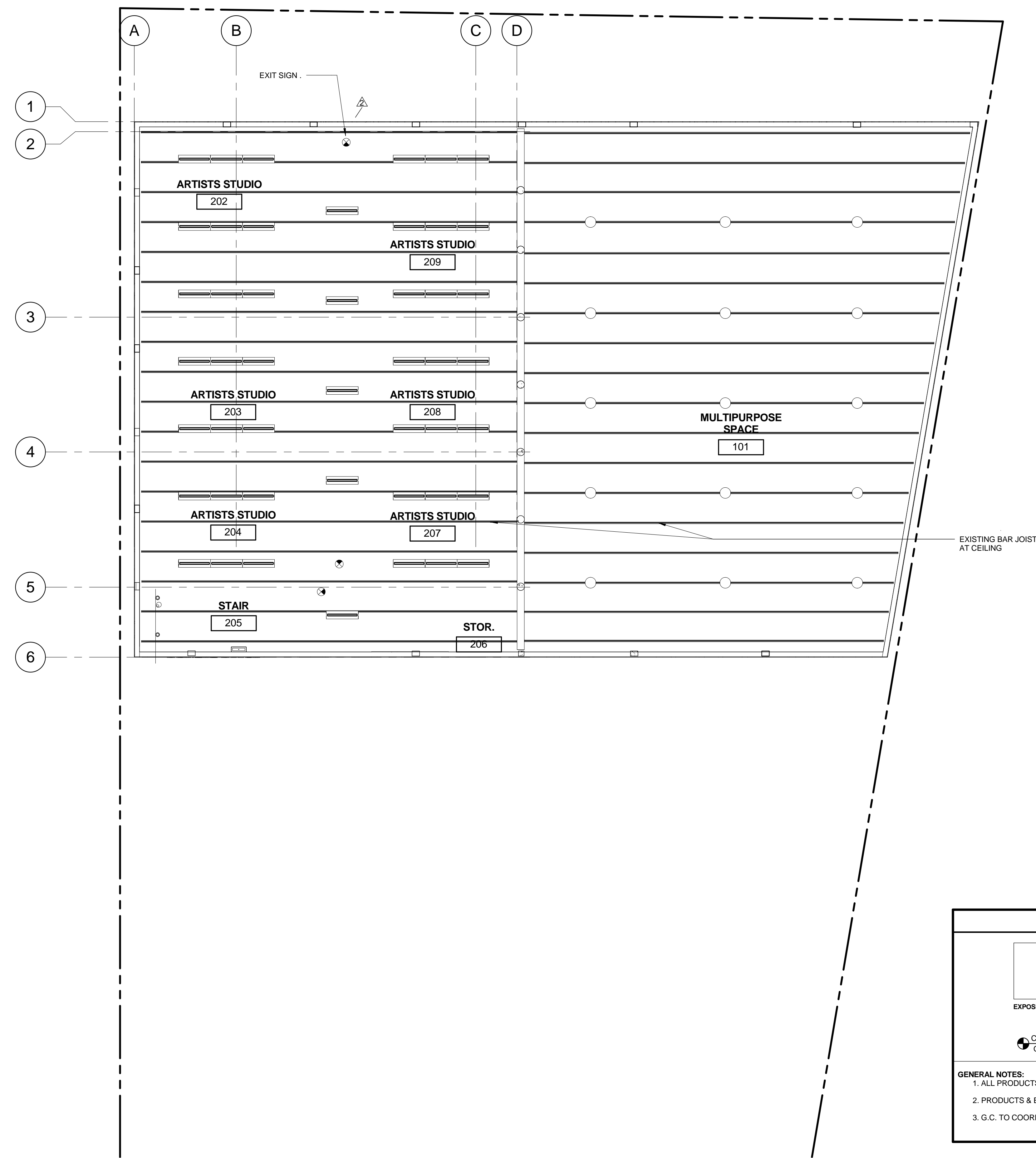
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A6.02

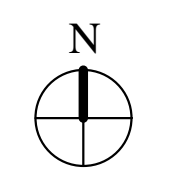


FIXTURE LEGEND	
	RECESSED LIGHT
	CEILING MOUNTED DROP LIGHT
	LAY IN 2x4
	LAY IN 2x2
	EXIT SIGN (SEE ELECTRICAL PLANS)
	TRACK LIGHTING
	MOUNTED BUCKET LIGHT
	CEILING-MOUNTED
	CEILING-MOUNTED LINEAR
	WALL-MOUNTED SCONCE
	WALL-MOUNTED
	EXTERIOR WALL-MOUNTED SCONCE

CEILING MATERIALS	
	EXPOSED CEILING
	ACOUSTICAL TILE 2x2' ARMSTRONG CLEAN ROOM VL
	CLG. HT. GYP. BD.
	CLG. HT. ACT 2x2

GENERAL NOTES:
1. ALL PRODUCTS TO BE INSTALLED PER MANUFACTURER'S WRITTEN INSTRUCTIONS.
2. PRODUCTS & EQUIPMENT IN ACCESSIBLE AREAS TO BE INSTALLED PER ADA STANDARDS.
3. G.C. TO COORDINATE LOCATION OF ALL EQUIPMENT PRIOR TO INSTALLATION TO AVOID CONFLICTS.

1 SECOND FLOOR REFLECTED CEILING PLAN
A6.02 1/8" = 1'-0"



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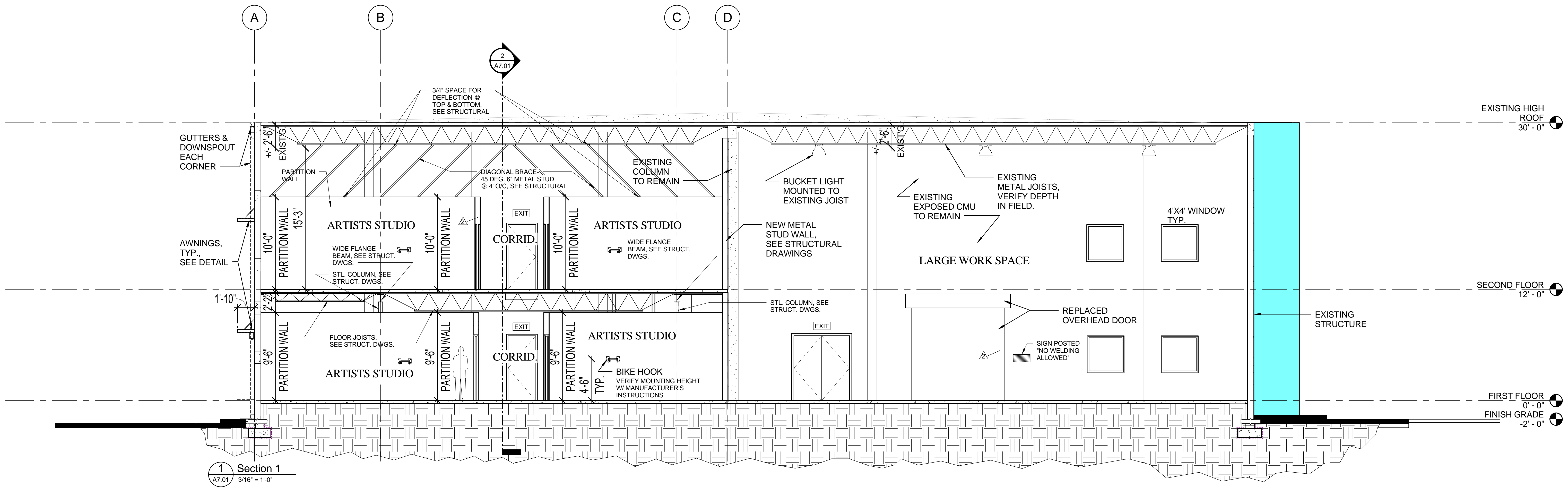
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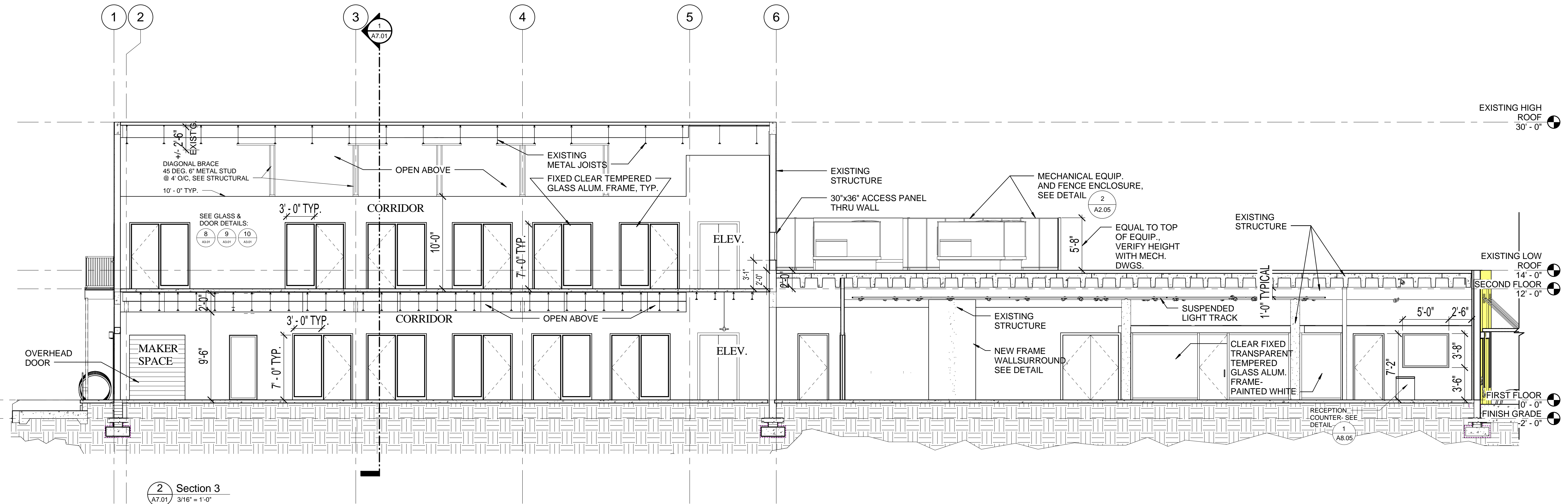
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1 Section 1
A7.01 3/16" = 1'-0"



2 Section 3
A7.01 3/16" = 1'-0"

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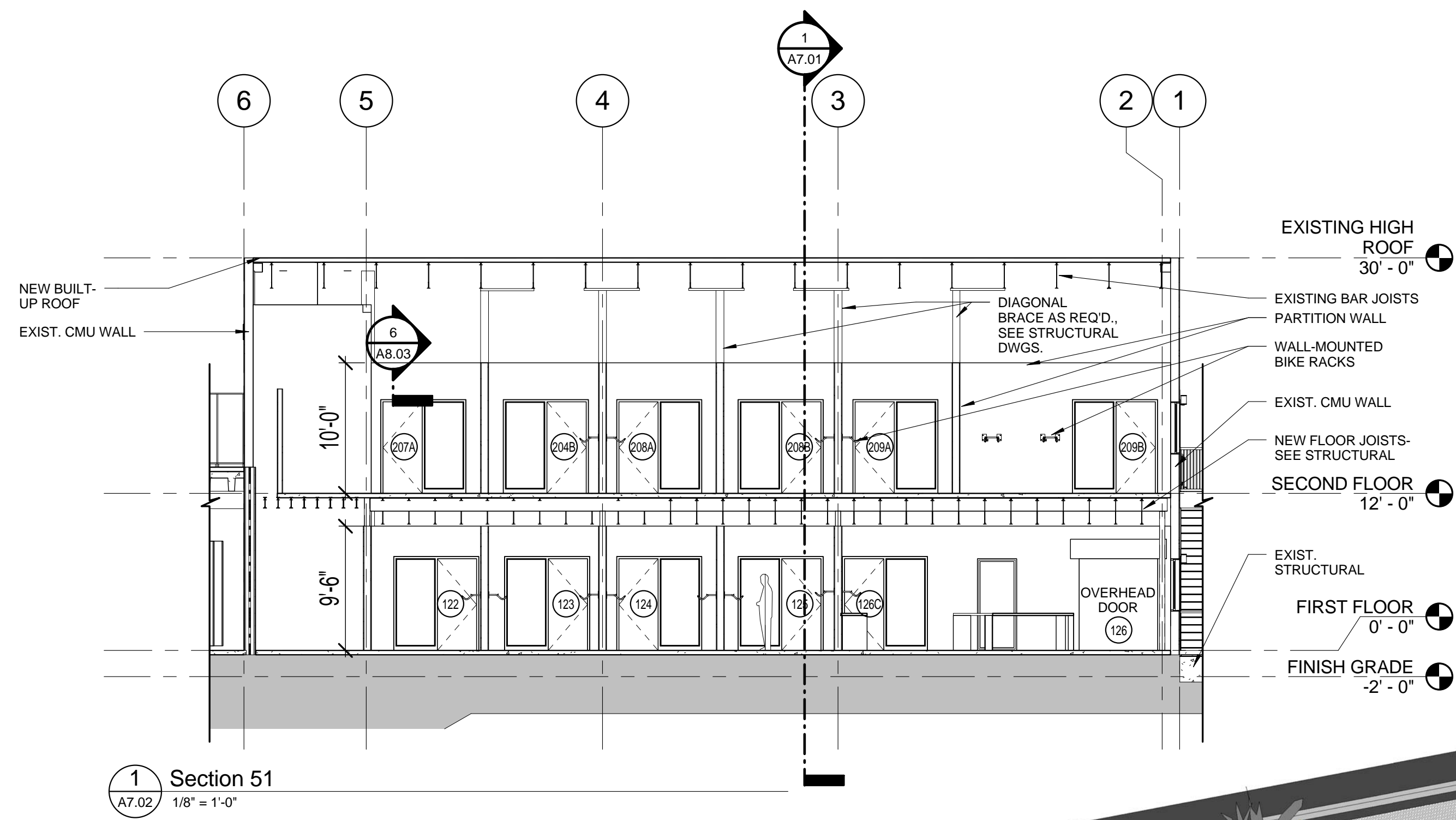
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JOB NUMBER 100701

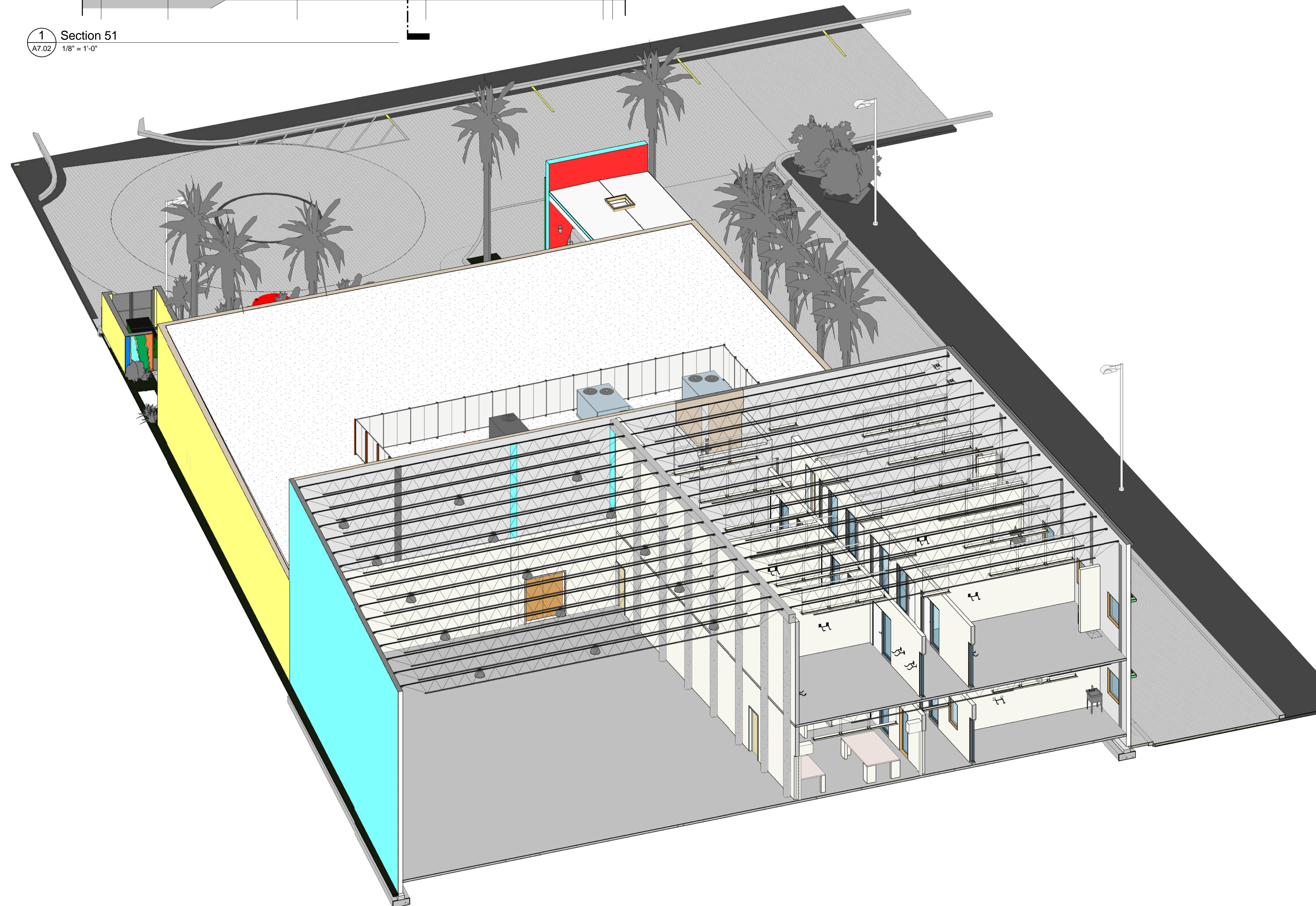
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1 Section 51
A7.02 1/8" = 1'-0"



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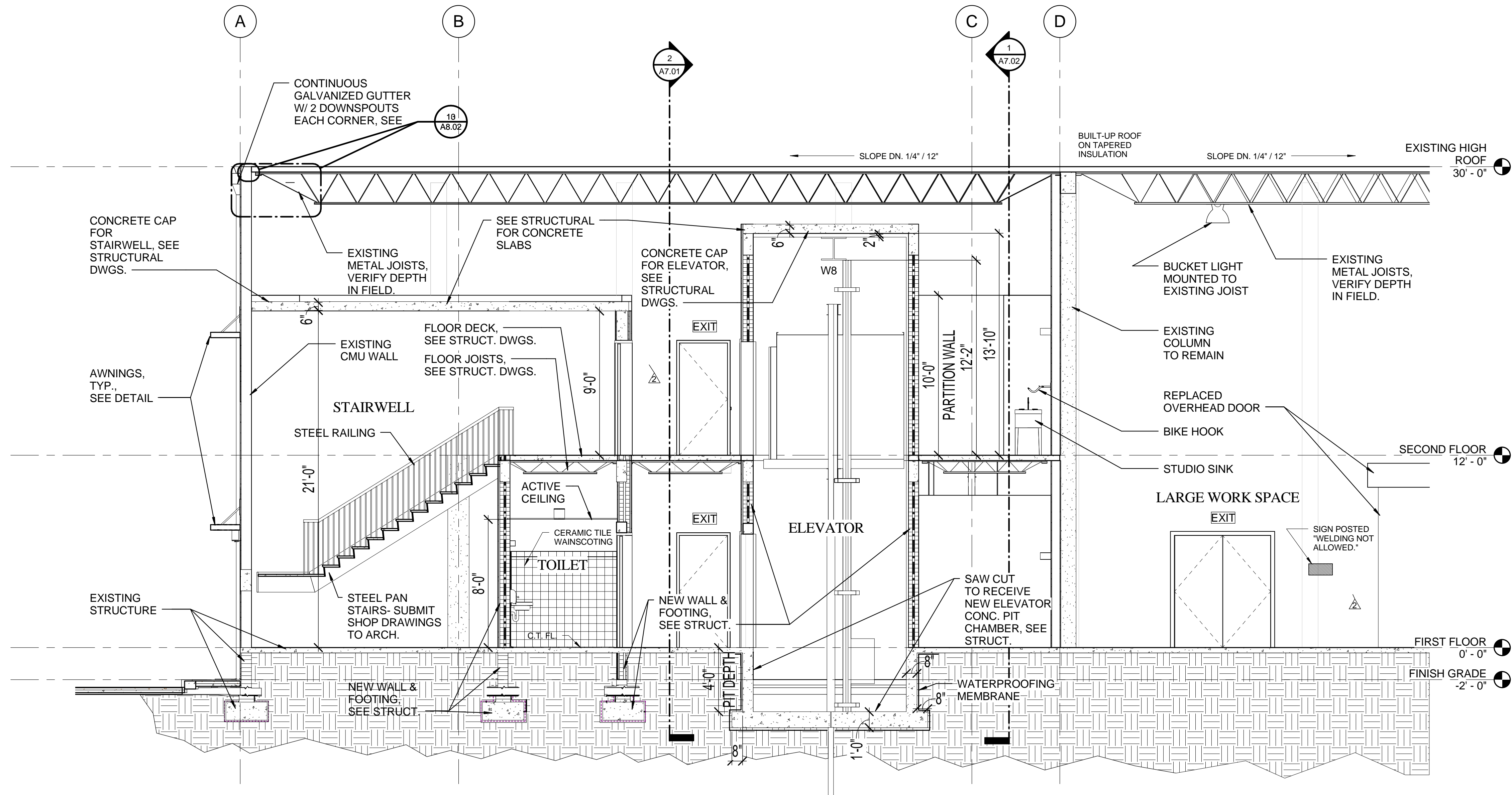
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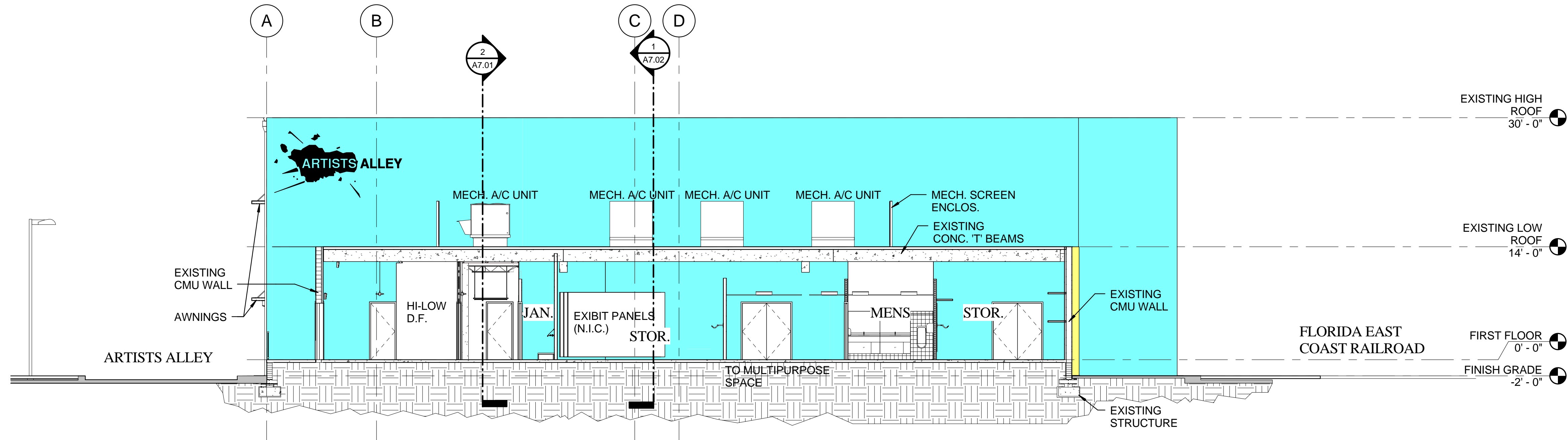
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A7.03



2 Section 29
A7.03 1/4" = 1'-0"



1 Section 47
A7.03 1/8" = 1'-0"

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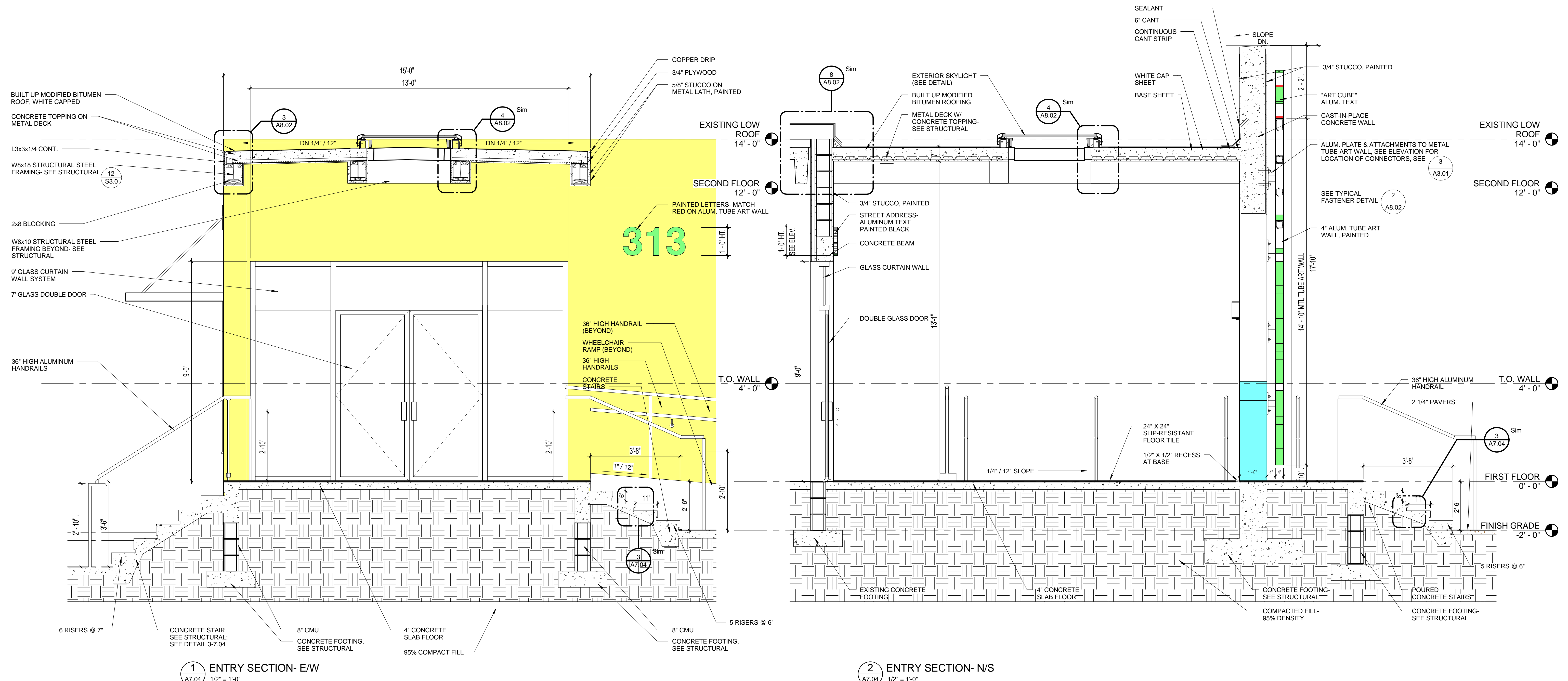
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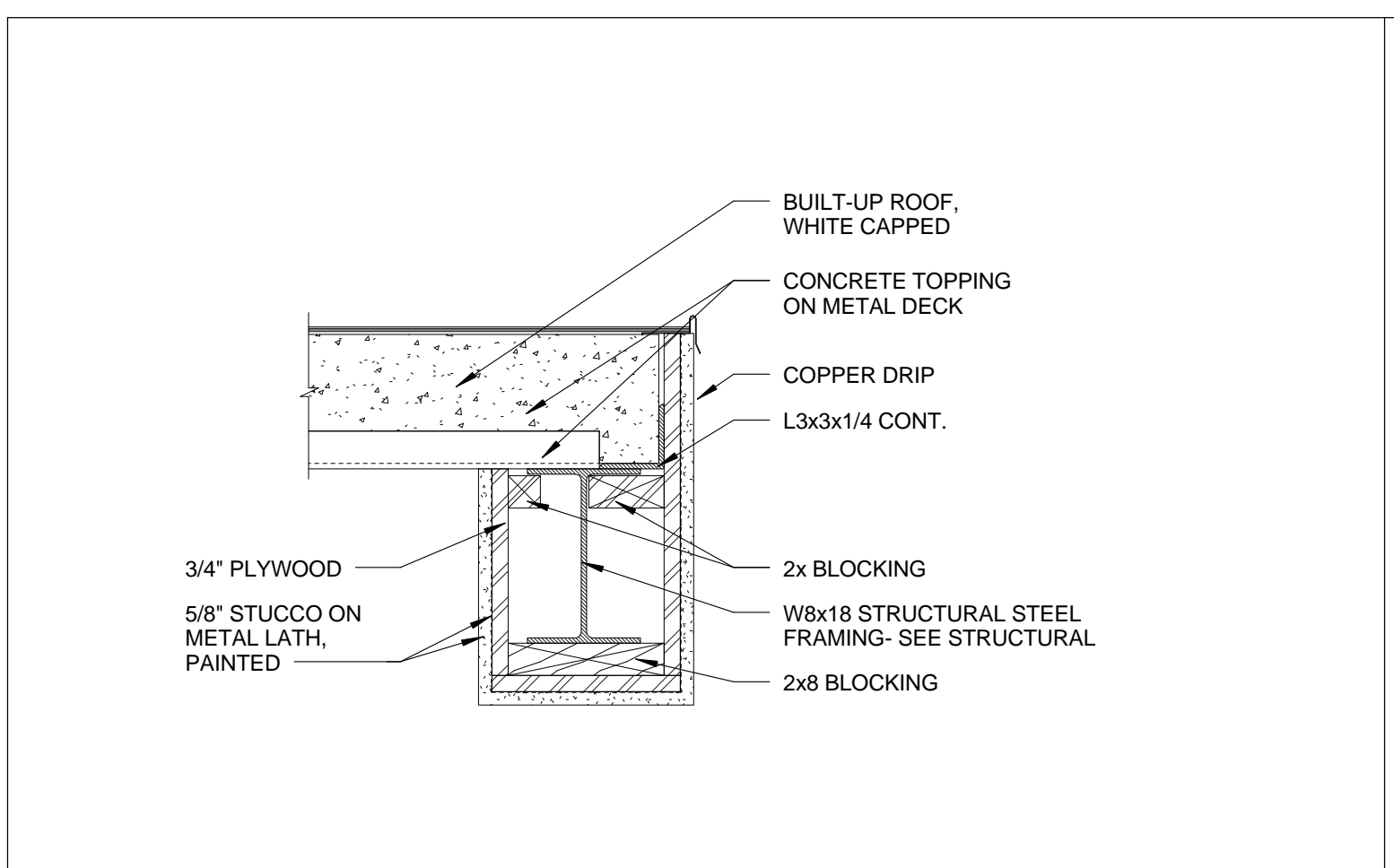
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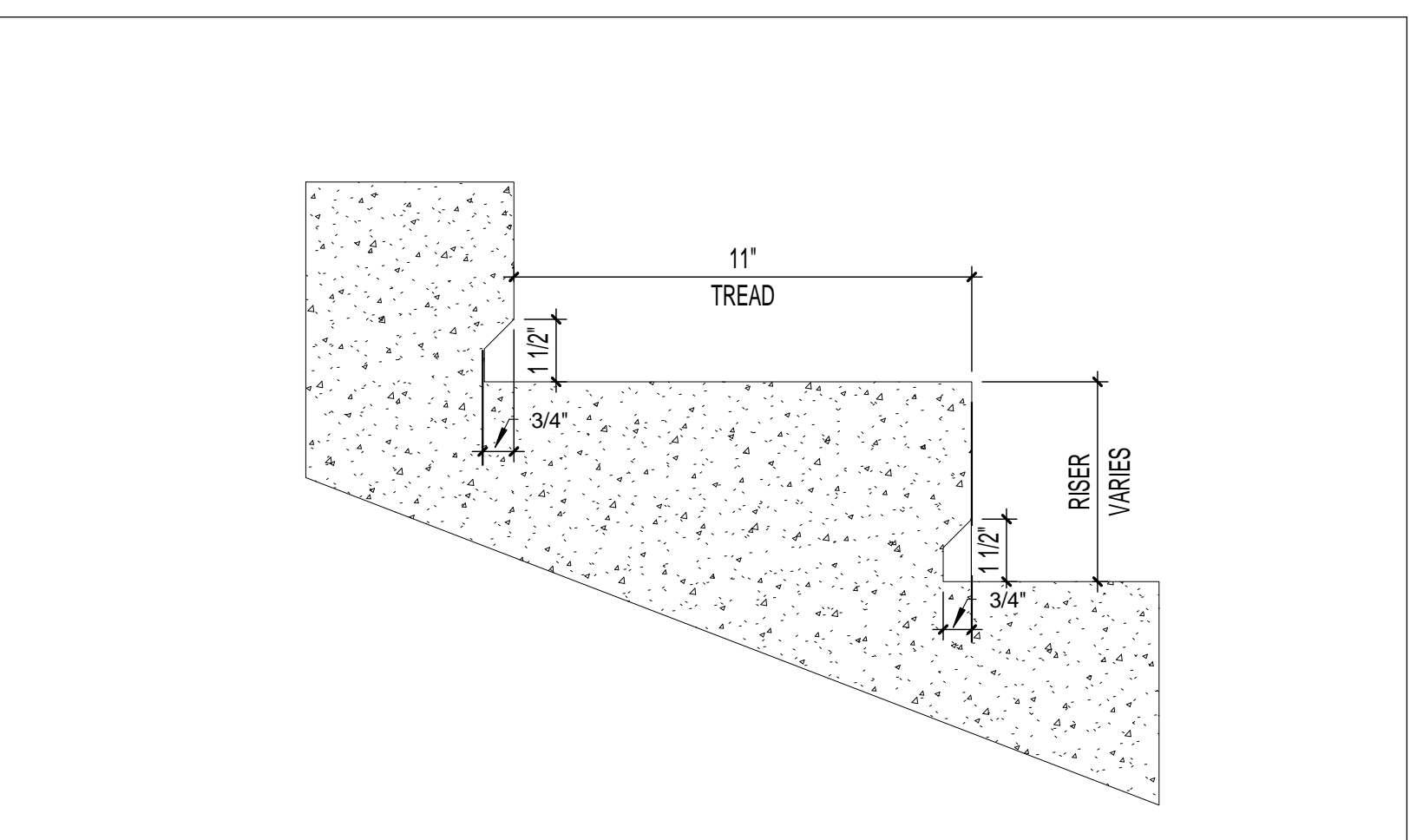


1 ENTRY SECTION- E/W
A7.04 1/2" = 1'-0"

2 ENTRY SECTION- N/S
A7.04 1/2" = 1'-0"



4 TYPICAL BEAM DETAIL
A7.04 1 1/2" = 1'-0"



3 TYPICAL RISER
A7.04 3" = 1'-0"

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PROJECT TITLE

Art Warehouse
Renovation

313 NE 3rd Street, Delray
Beach, Florida 33444

NUM.	DESCRIPTION	DATE
1	Bldg. Dept. comments	8/21/2015

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FILE NUMBER: J:\100701 DELRAY CRA ART INDICATOR\DRAWINGS\100701 - CENTRAL.rvt

DRAWING TITLE

WALL TYPES

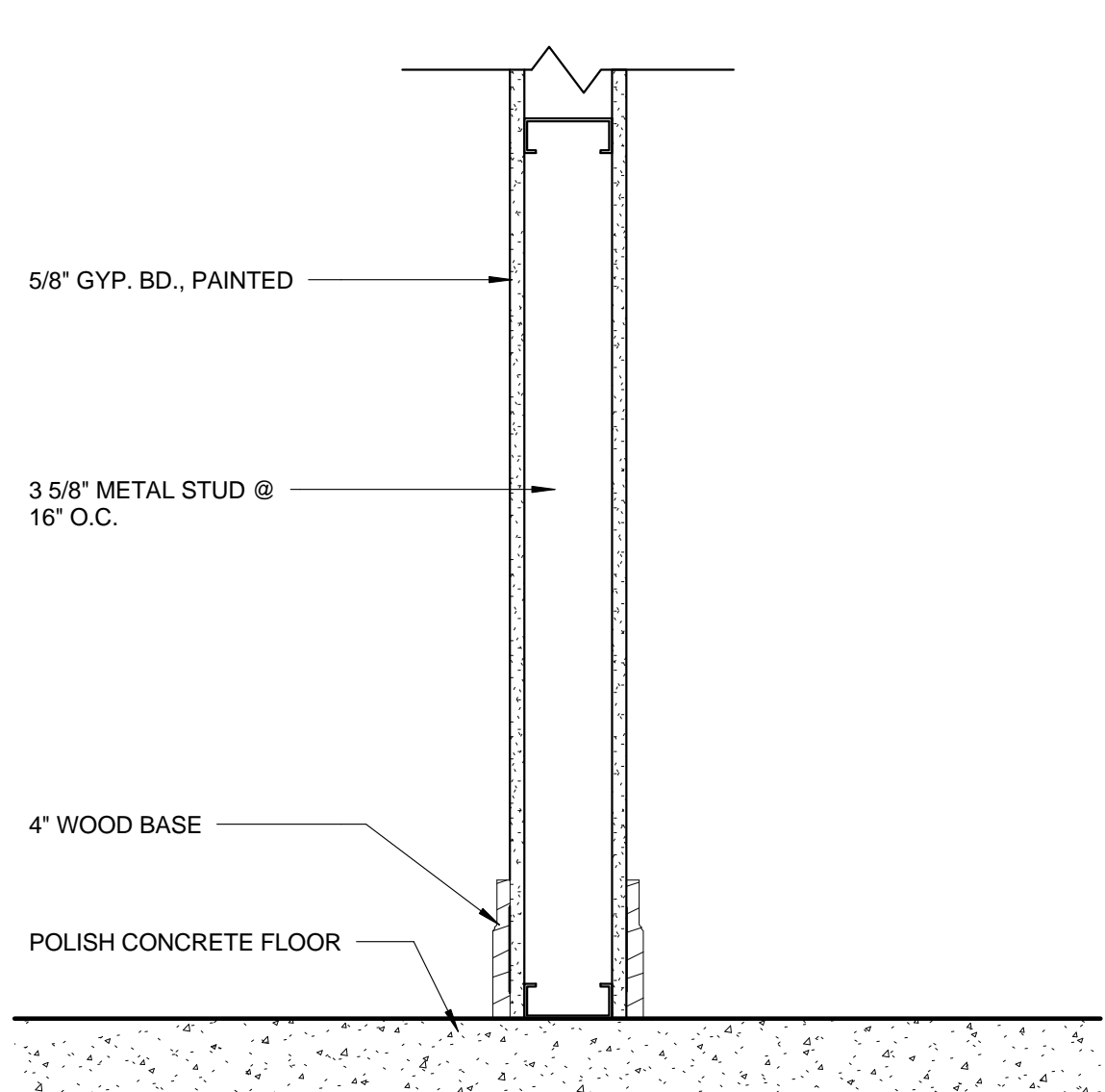
DATE: 6/29/2015 | DRAWN BY: RG,MM

JOB NUMBER: 100701

DRAWING NUMBER

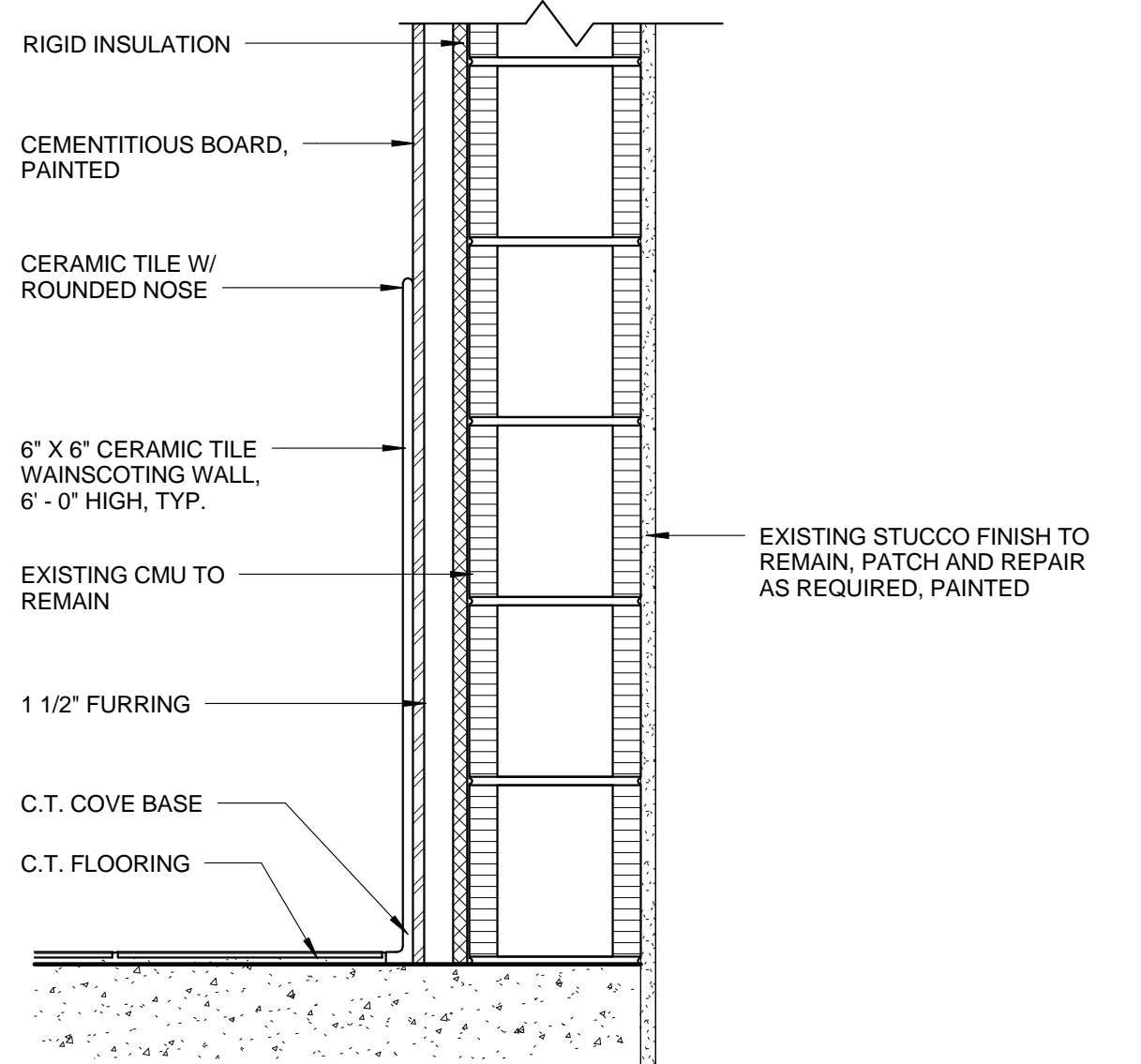
A8.01

PERMIT SET 6/29/2015



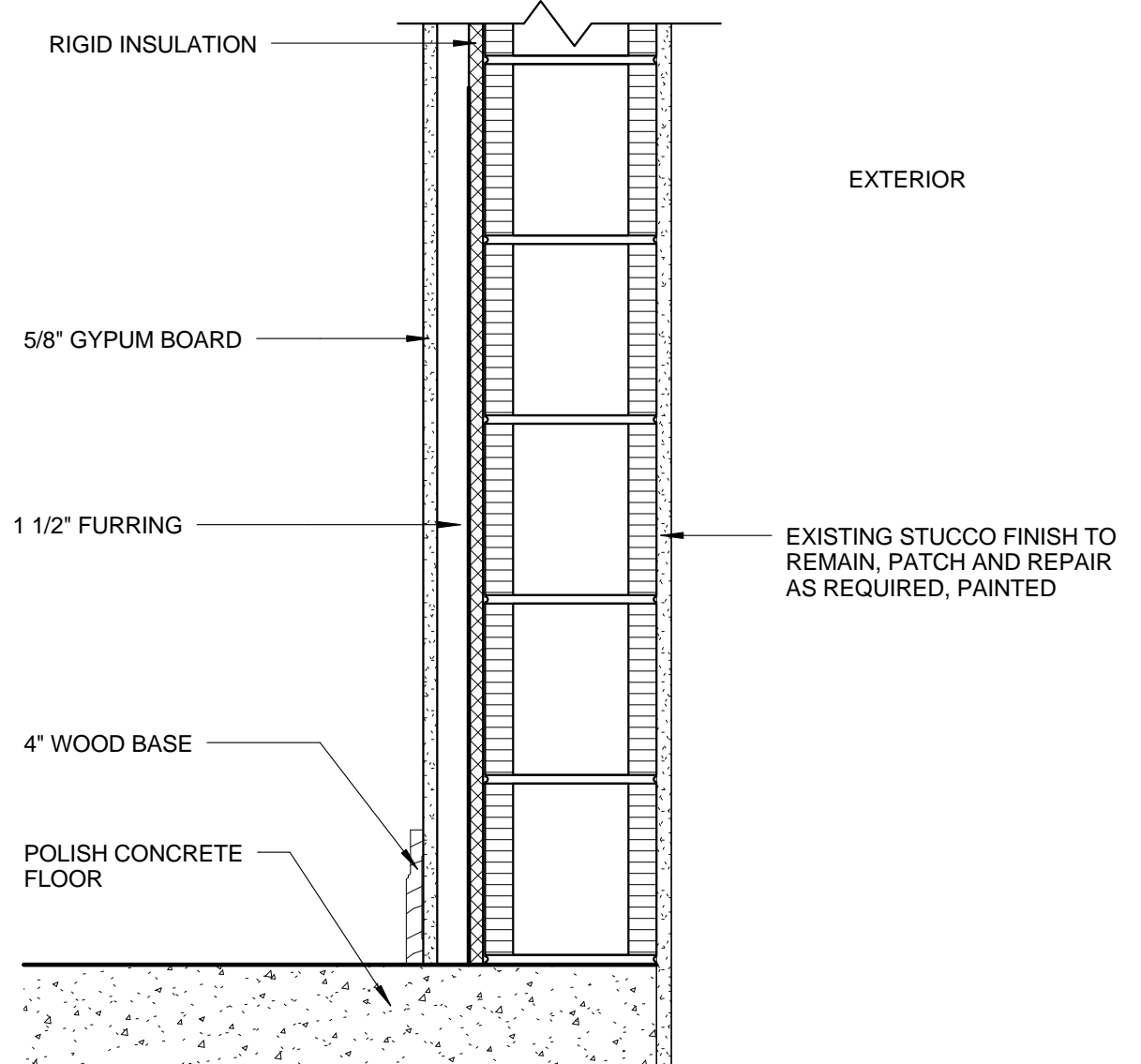
WALL TYPE C4

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



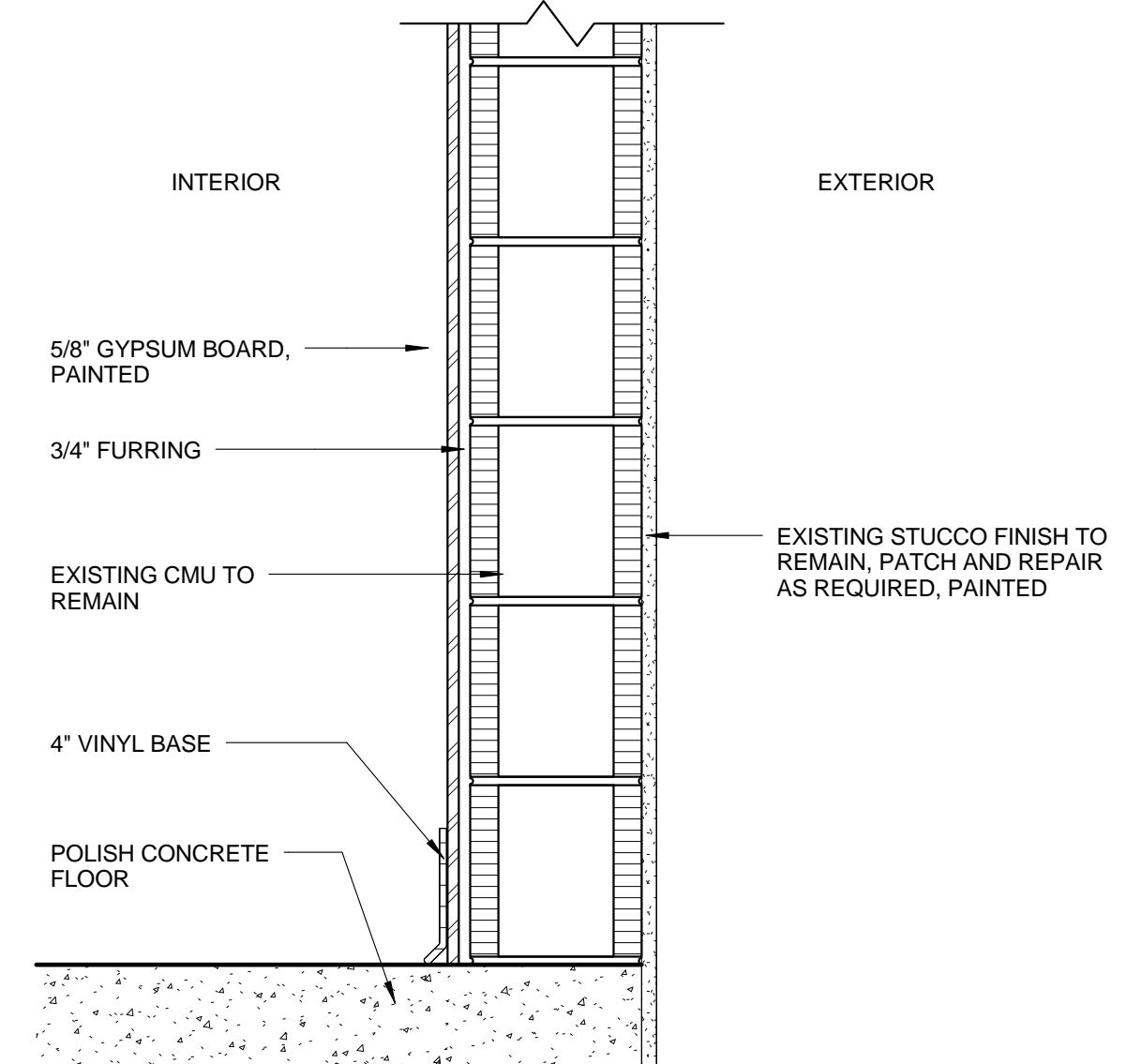
WALL TYPE C3

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



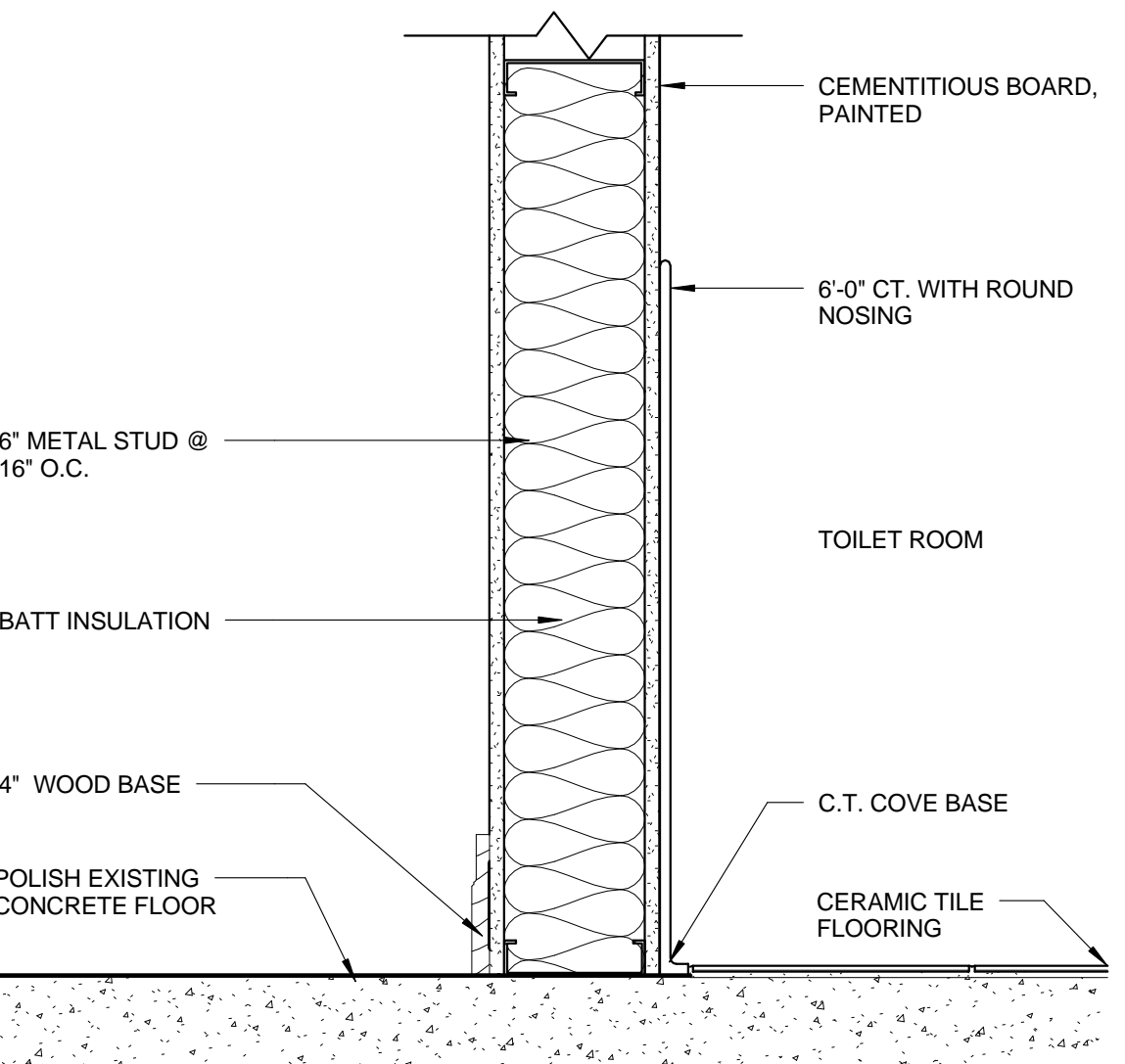
WALL TYPE C2

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



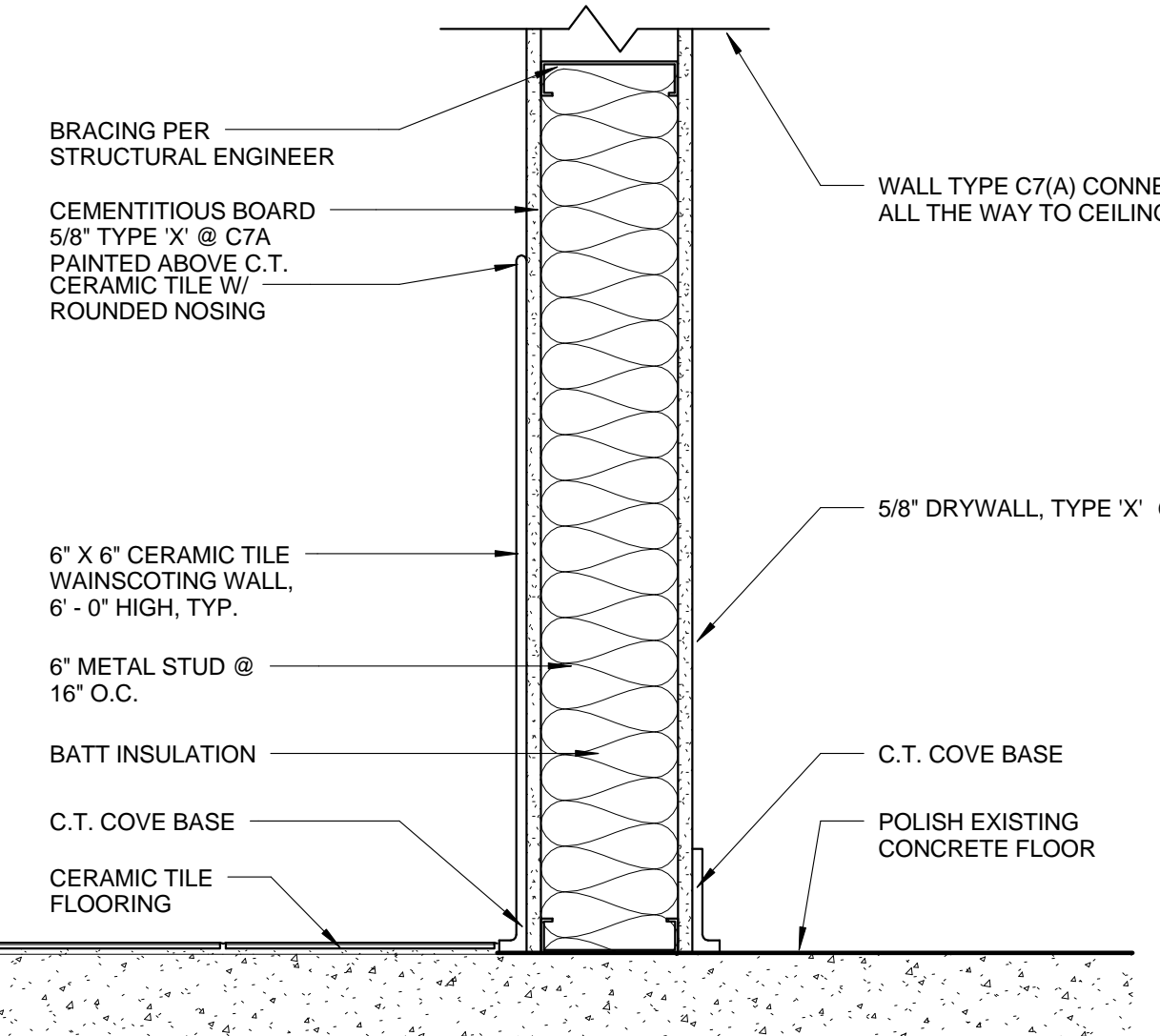
WALL TYPE C1

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



WALL TYPE C8

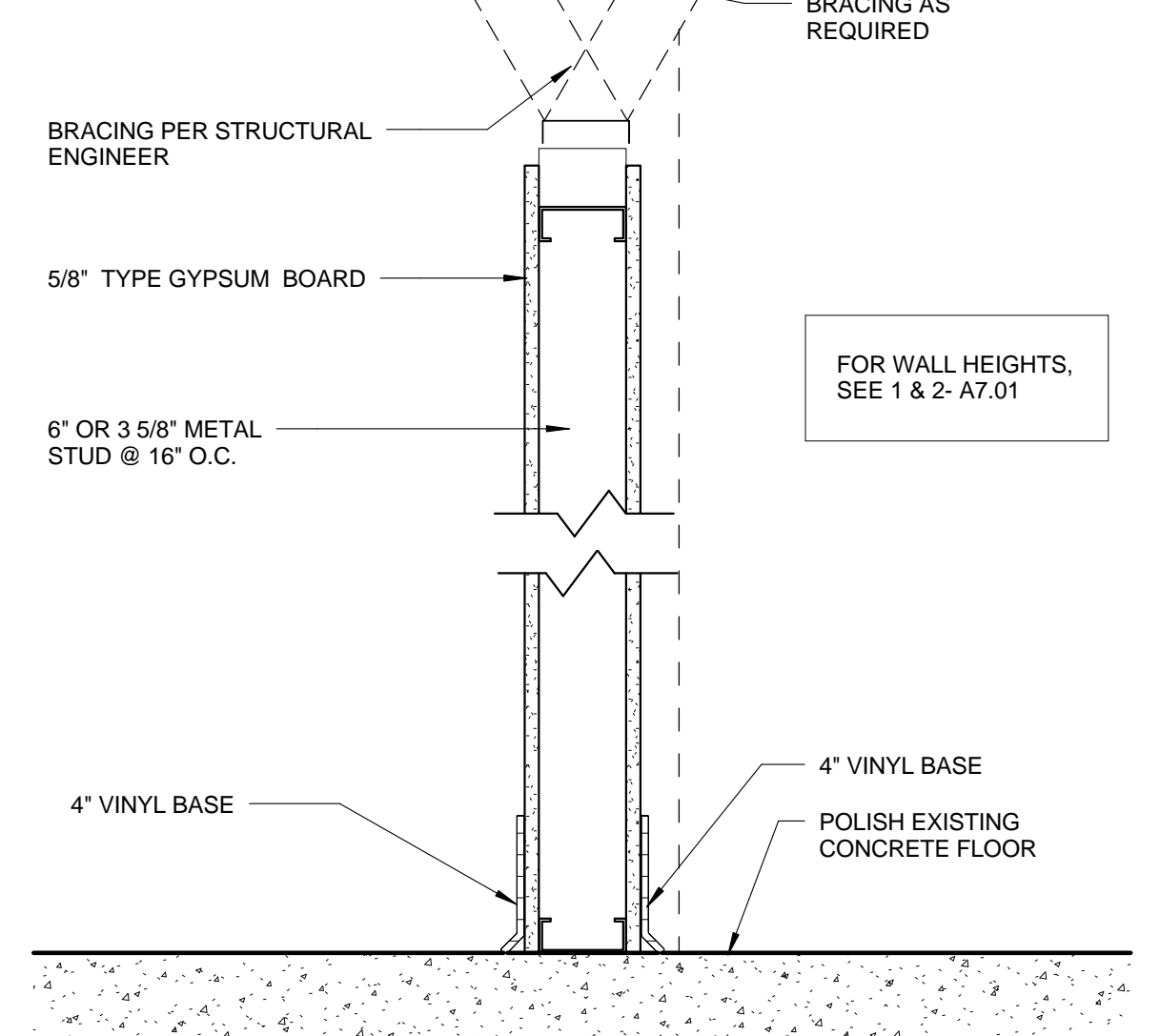
SCALE: 1 1/2" = 1'-0"



WALL TYPE C7(A)

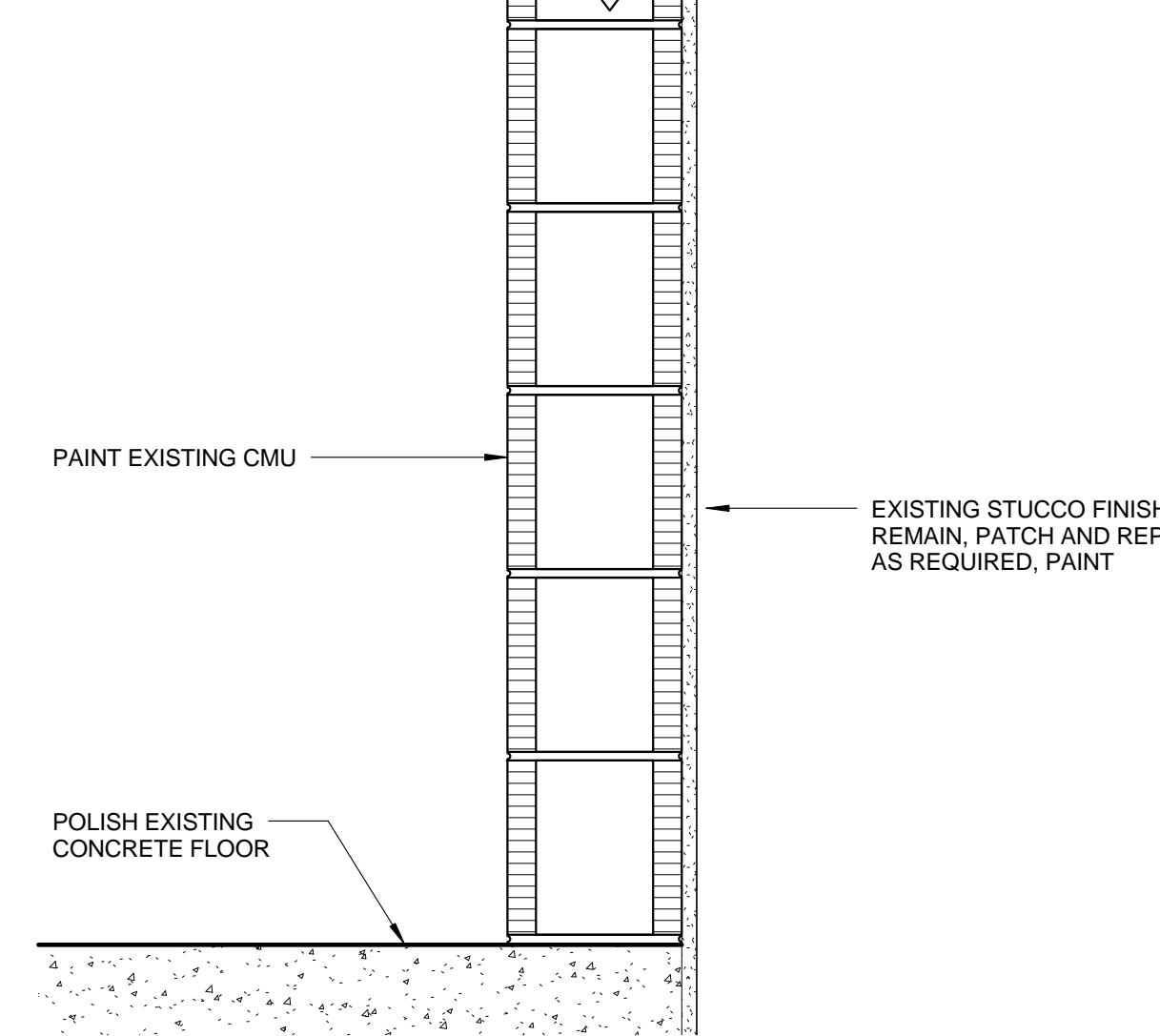
(1 HOUR RATED @ C7A : UL No. U419)

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



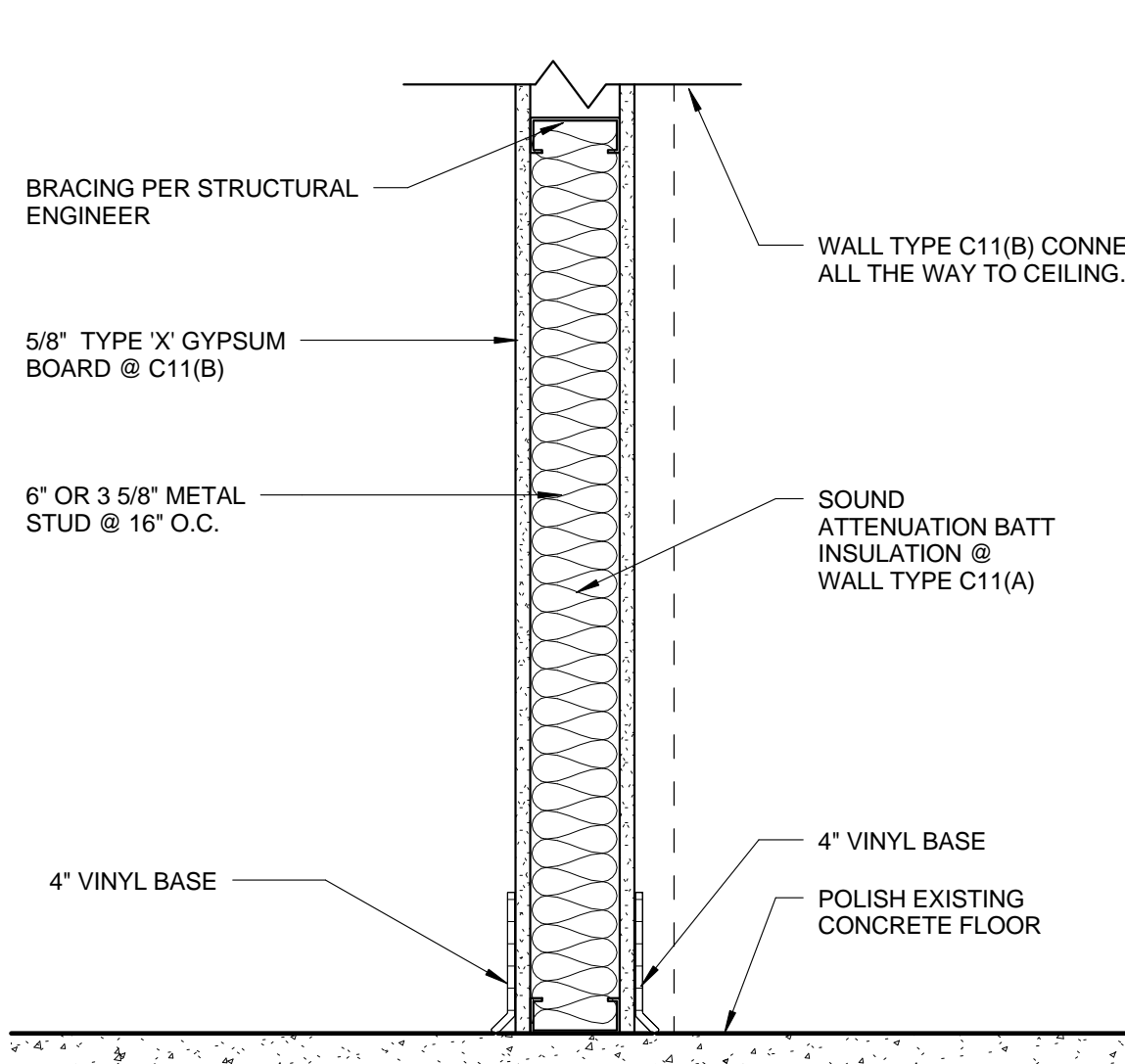
WALL TYPE C6

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



WALL TYPE C5

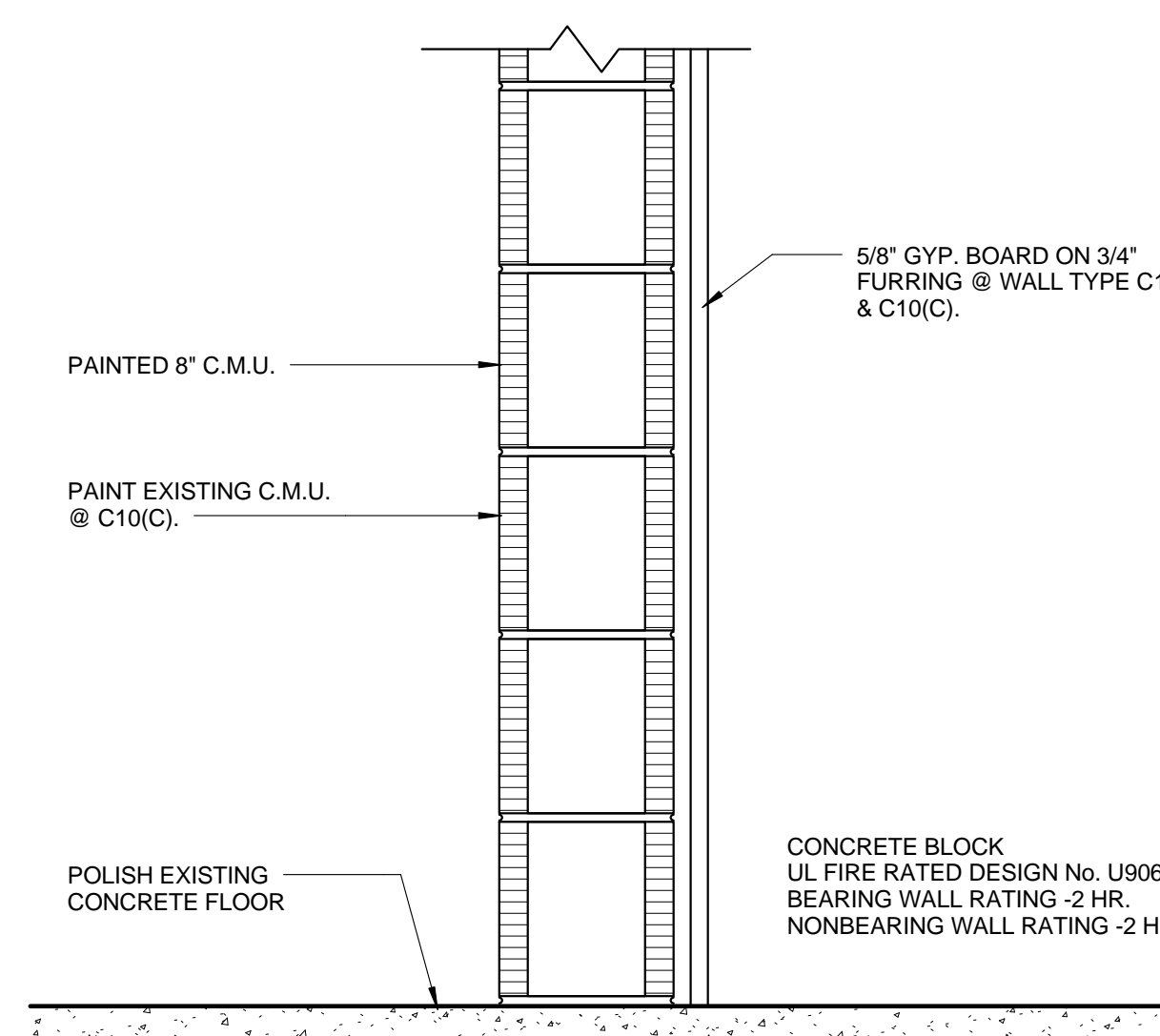
SCALE: 1 1/2" = 1'-0"



WALL TYPE C11(A)(B)

(1 HOUR RATED @ C11(B) : UL No. U419)

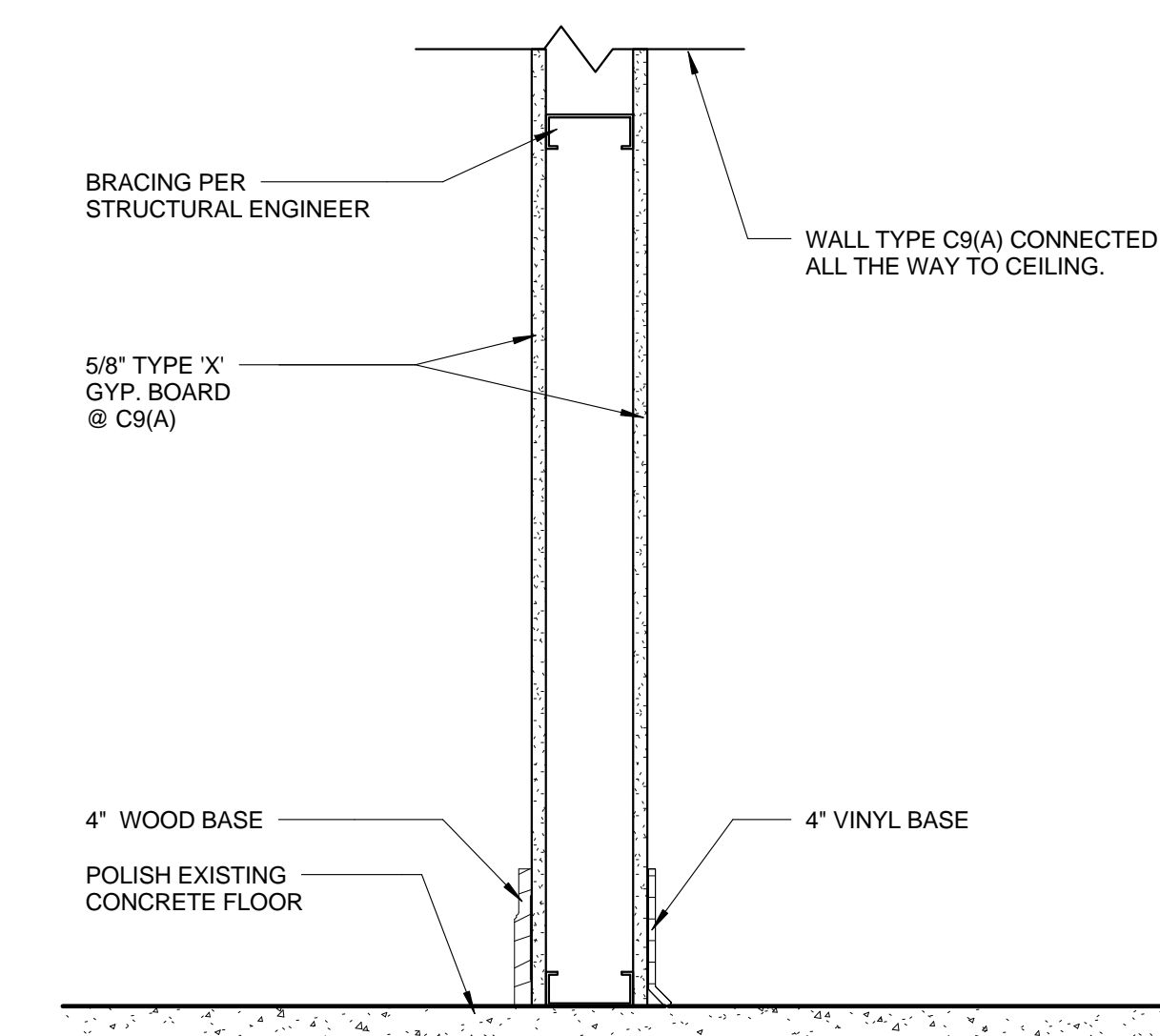
SCALE: 1 1/2" = 1'-0"



WALL TYPE C10(A)(B)(C)

(1 HOUR RATED @ C10(A), C10(B) & C10(C) : UL U906)

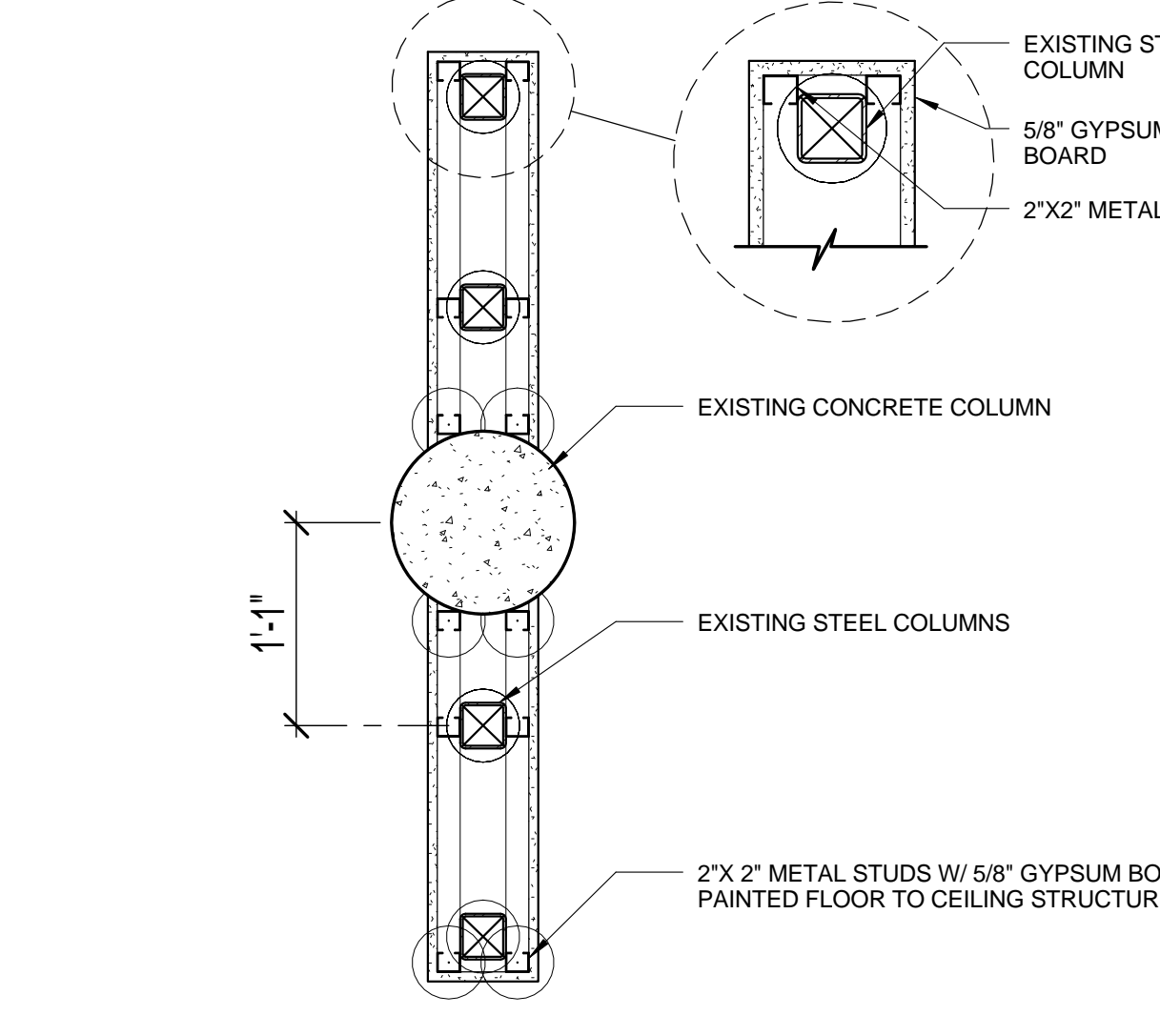
SCALE: 1 1/2" = 1'-0"



WALL TYPE C9(A)

(1 HOUR RATED @ C9(A) : UL No. U419)

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



WALL- PLAN VIEW

1" = 1'-0"

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ISSUED FOR :

SPRAB 3/05/2015

BIDS

PERMIT 6/29/2015

CONSTRUCTION

SEAL

PROJECT TITLE

Art Warehouse
Renovation

313 NE 3rd Street, Delray
Beach, Florida 33444

NUM.	DESCRIPTION	DATE
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FILE NUMBER: J:\100701 DELRAY CRA ART INCUBATOR DRAWINGS\100701 - CENTRAL.rvt

DRAWING TITLE
DETAILS

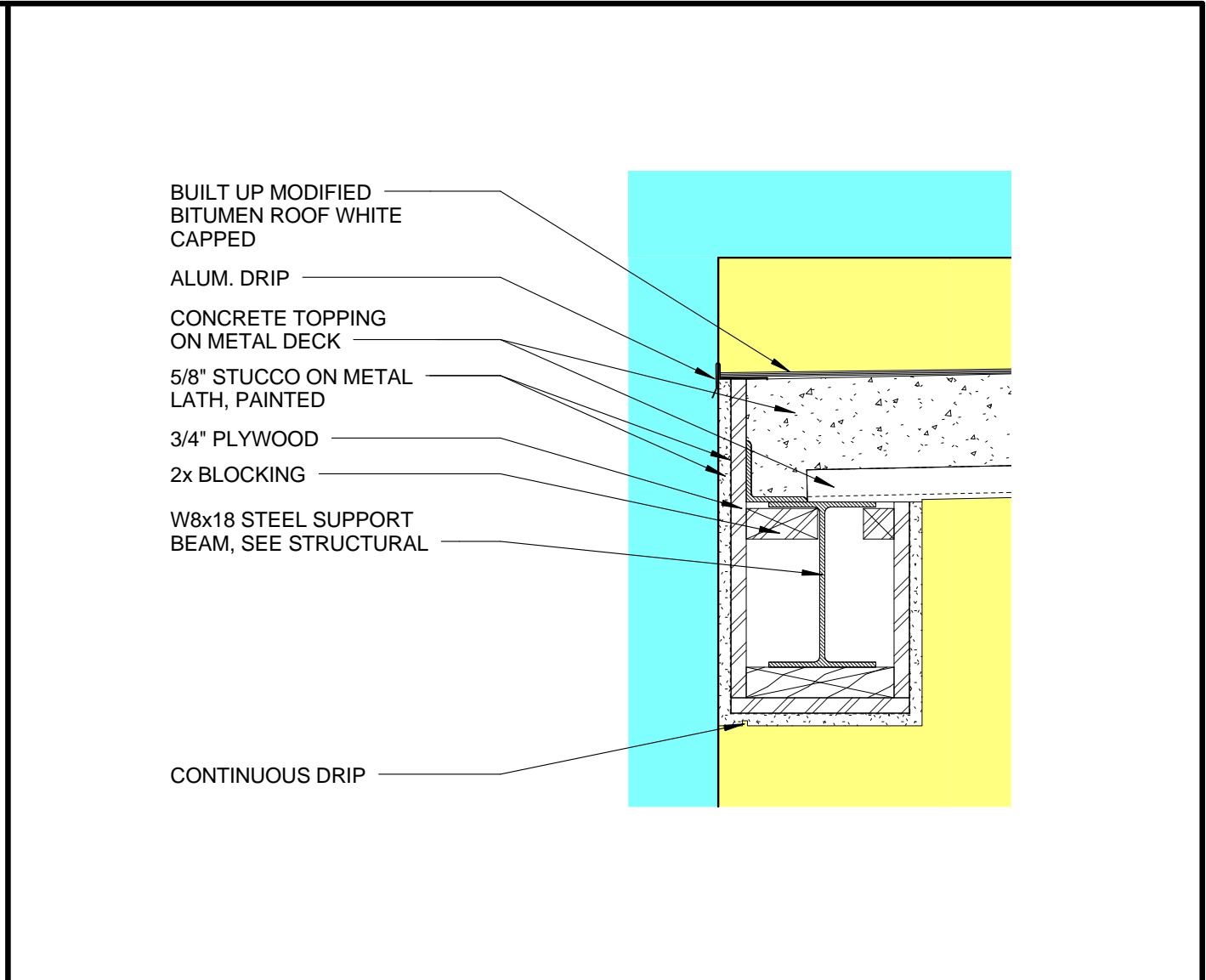
DATE: 6/29/2015 | DRAWN BY: MM

JOB NUMBER: 100701

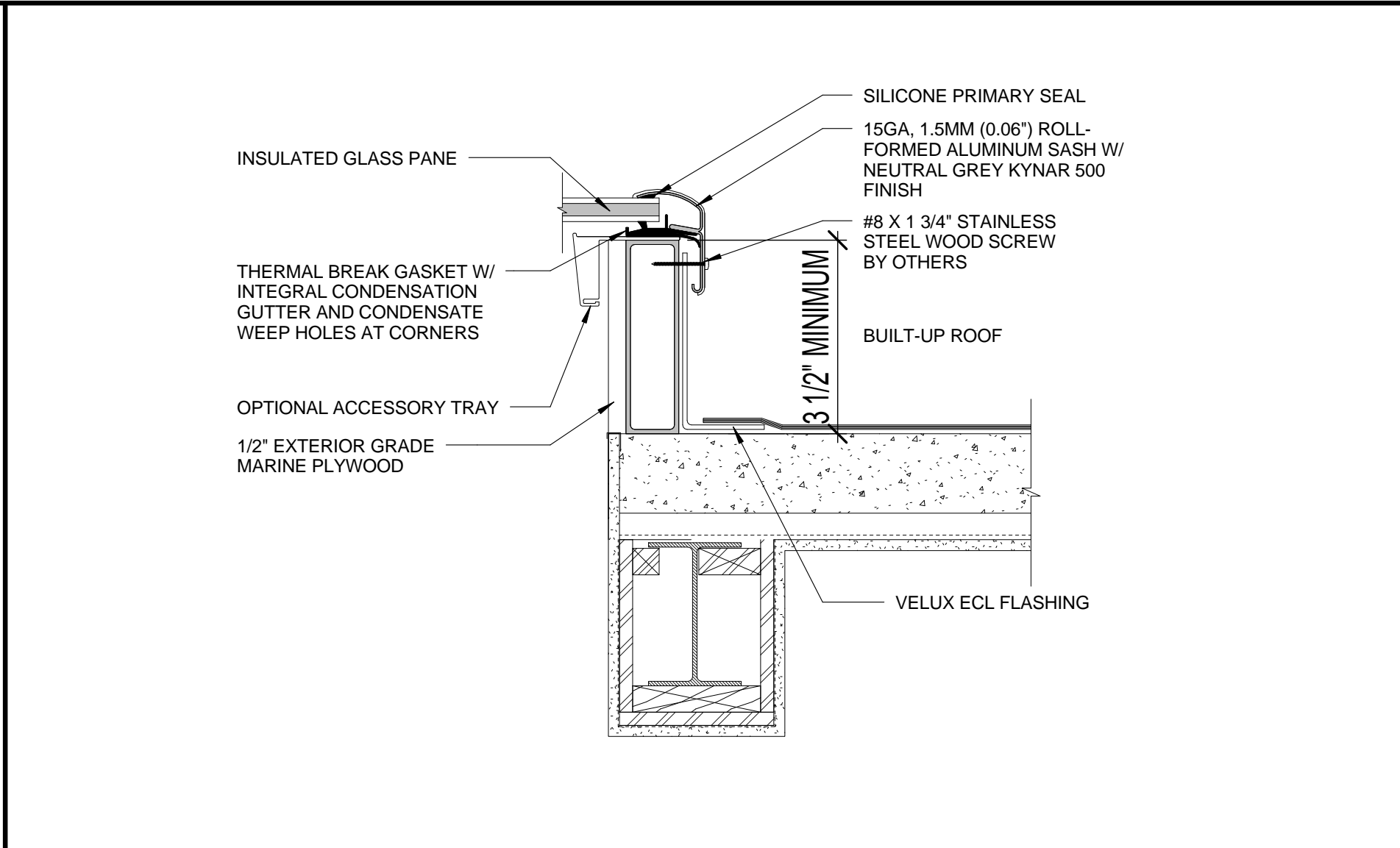
DRAWING NUMBER: A8.02

PERMIT SET 6/29/2015

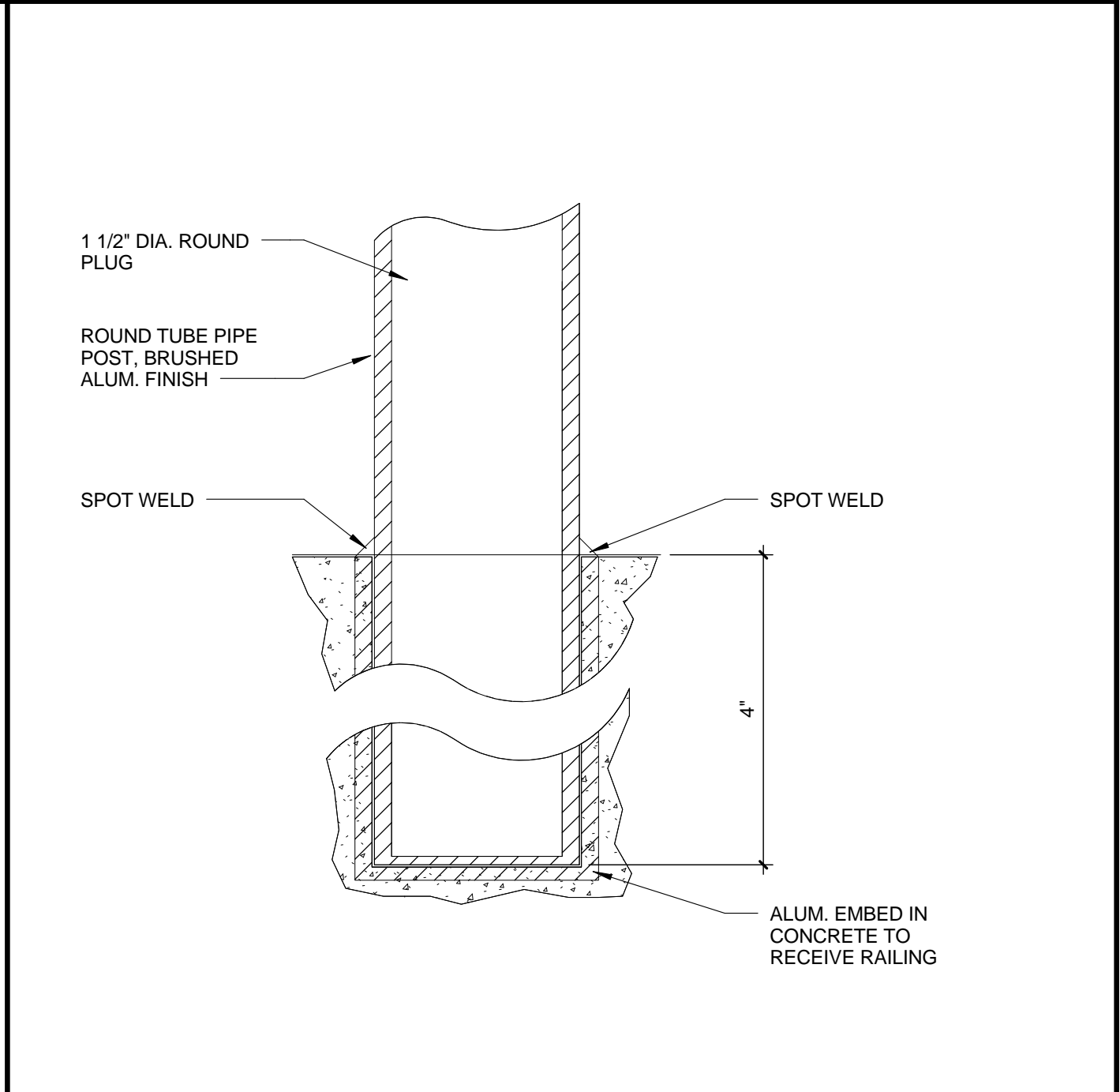
A8.02



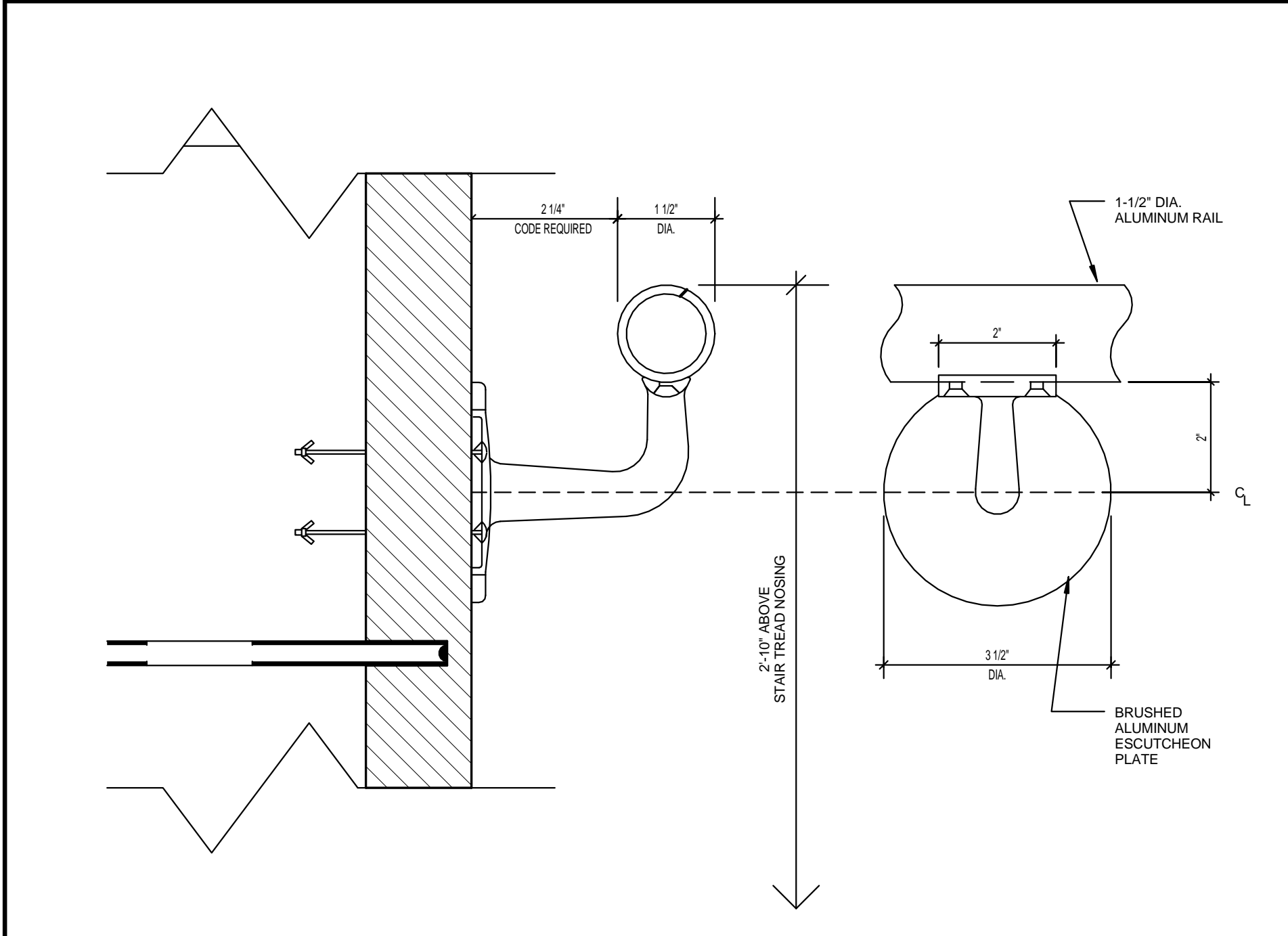
3 ROOF DETAIL 3
A8.02 1 1/2" = 1'-0"



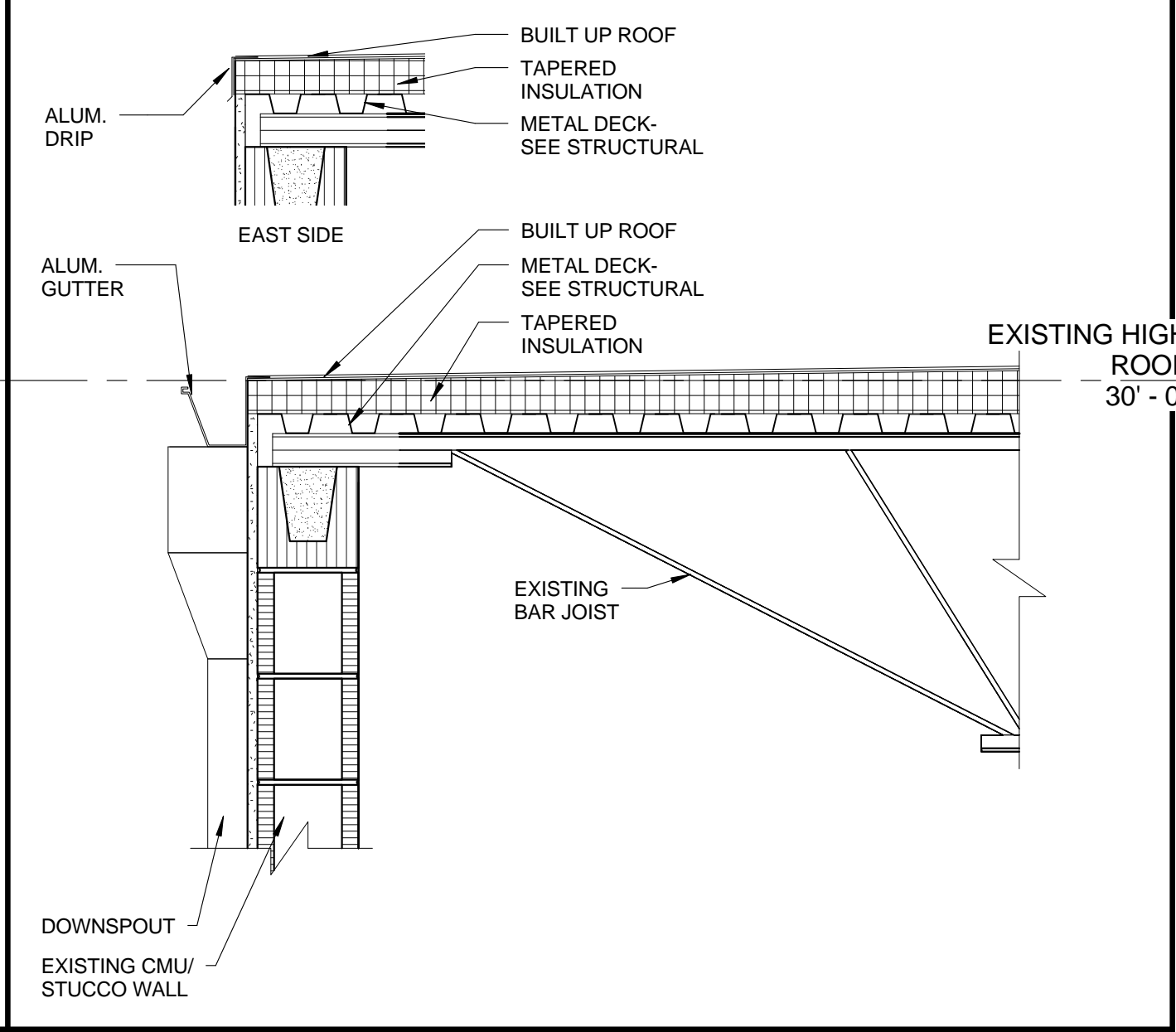
4 SKYLIGHT DETAIL
A8.02 NOT TO SCALE



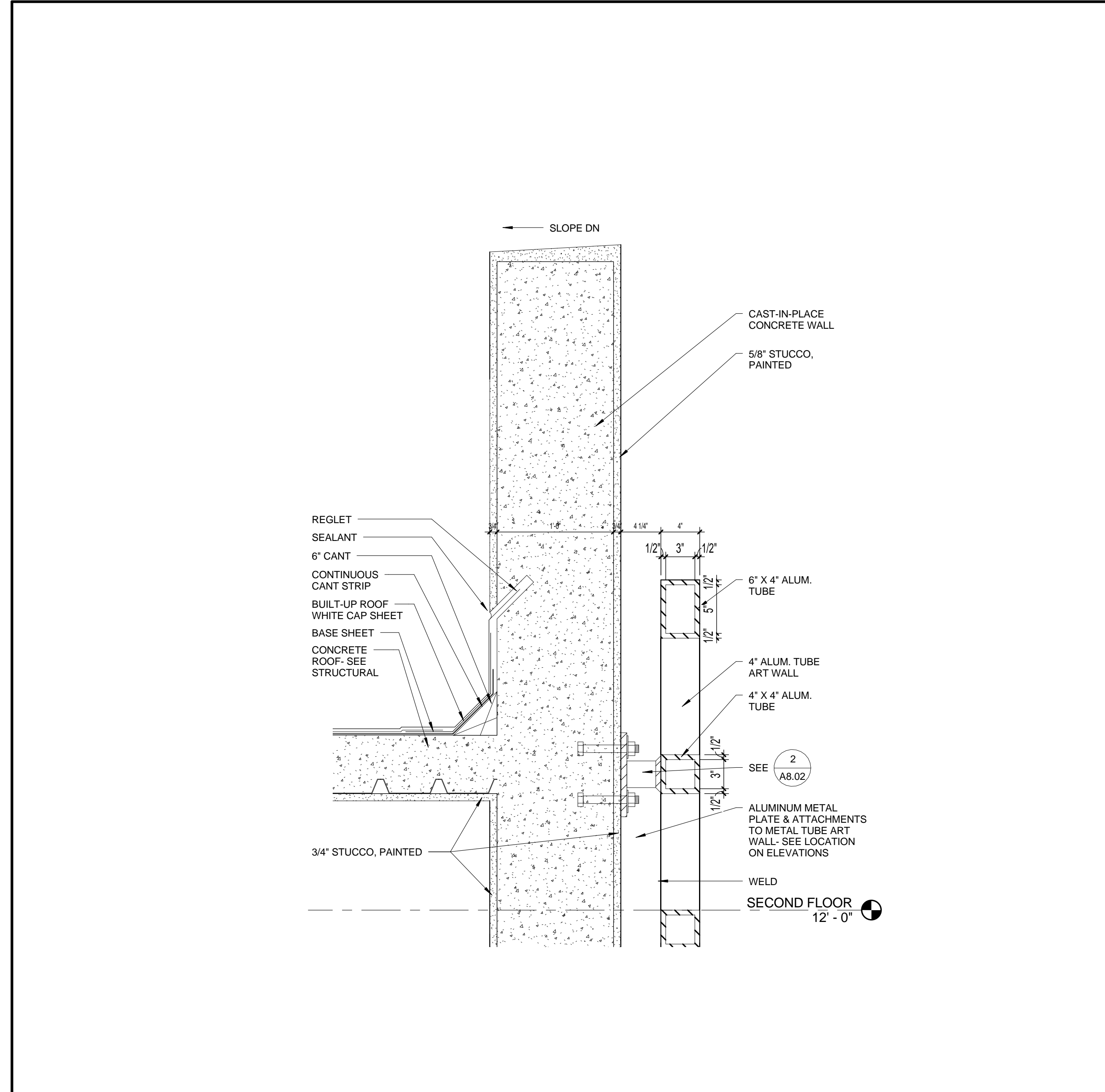
6 HANDRAIL DETAIL (BASE) TYPICAL
A8.02 NOT TO SCALE



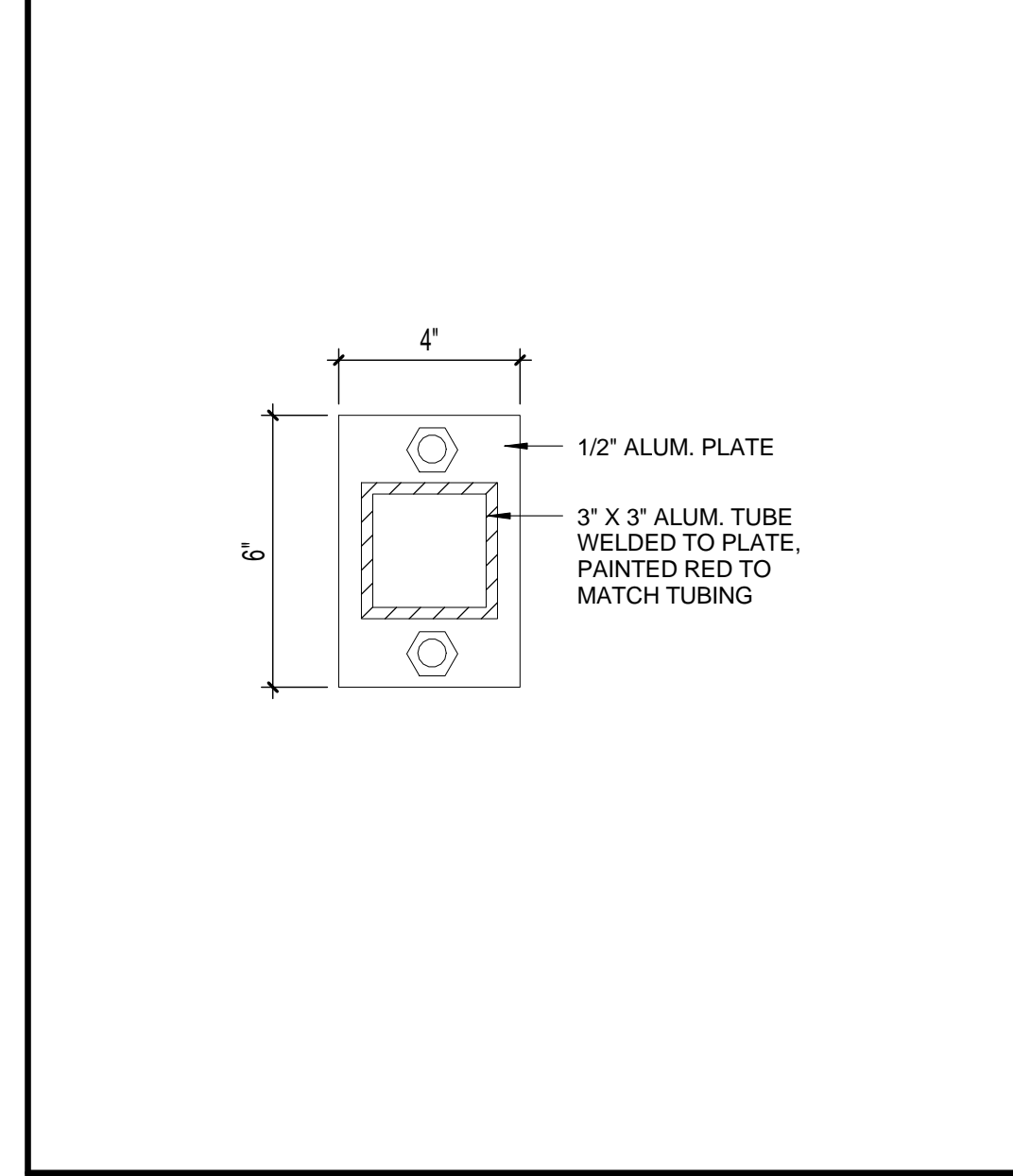
5 TYPICAL HANDRAIL DETAIL
A8.02 6" = 1'-0"



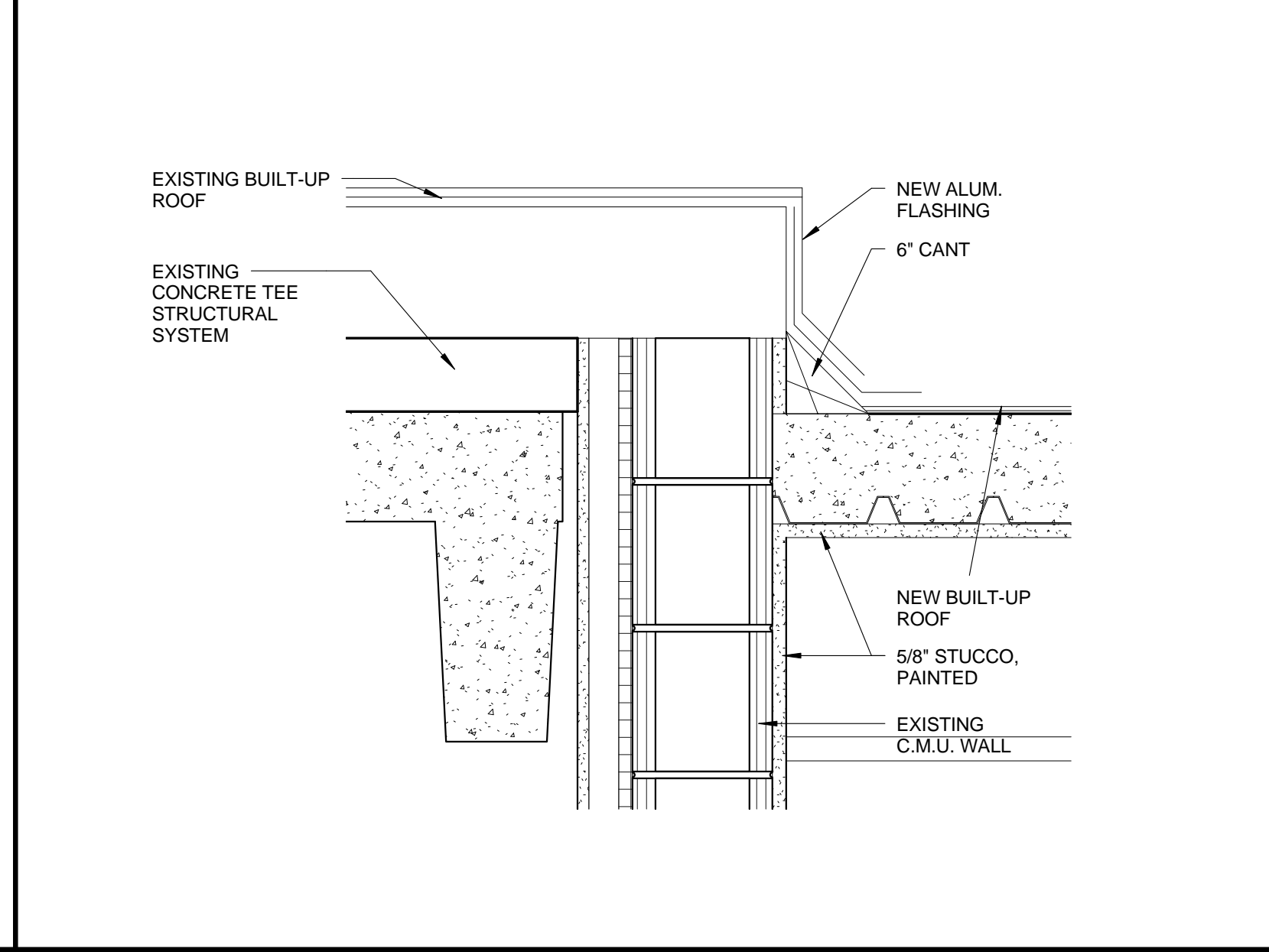
10 TYPICAL ROOF (HIGH BLDG) WEST SIDE
A8.02 1" = 1'-0"



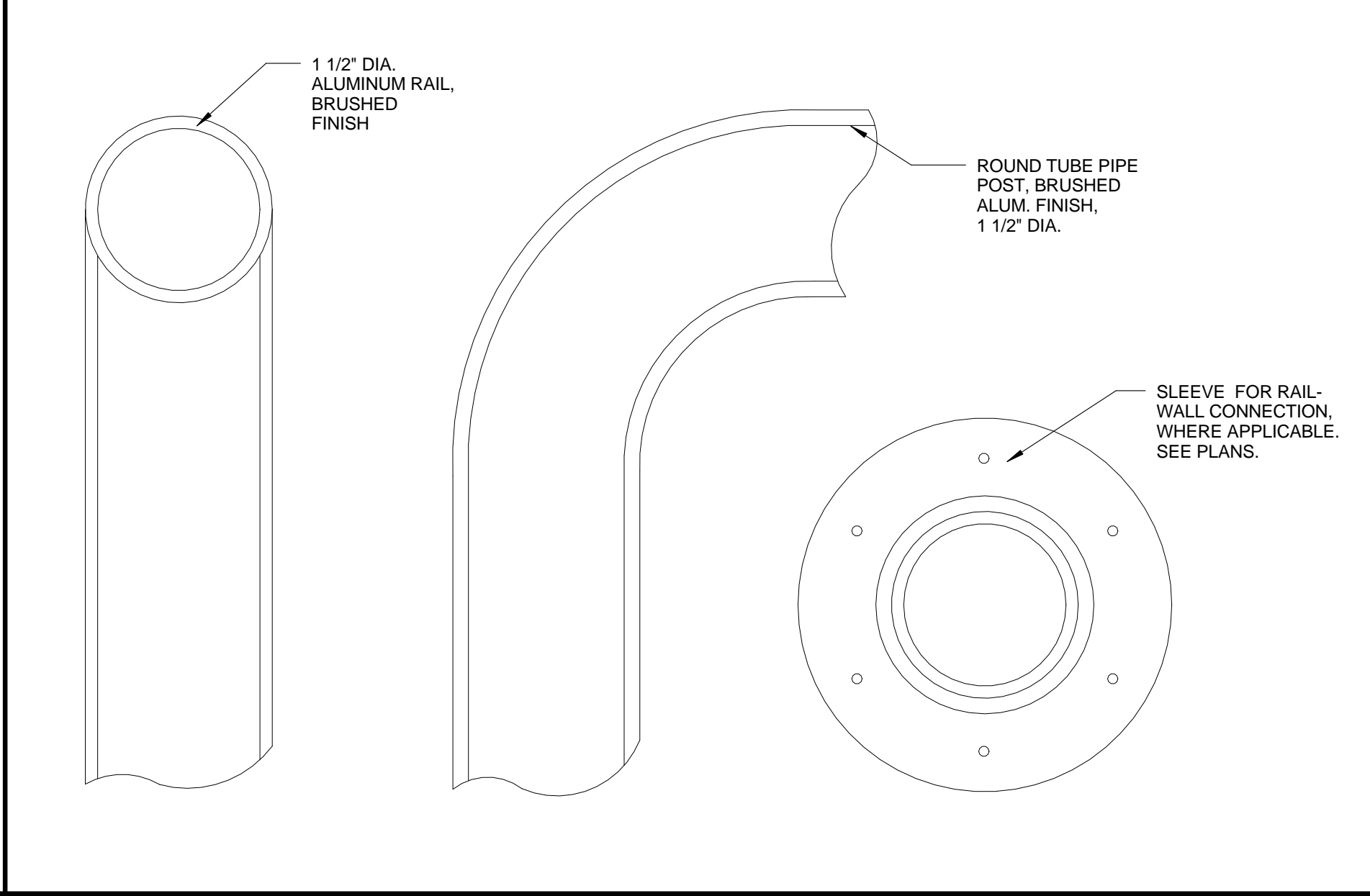
1 ENTRY WALL DETAIL
A8.02 1 1/2" = 1'-0"



2 TYPICAL FASTENER
A8.02 3" = 1'-0"



8 ROOF DETAIL AT ENTRY CANOPY
A8.02 1 1/2" = 1'-0"



7 HANDRAIL DETAIL (ELEVATION)
A8.02 NOT TO SCALE

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ISSUED FOR :

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BIDS

PERMIT 6/29/2015

CONSTRUCTION

SEAL

PROJECT TITLE

Art Warehouse
Renovation

313 NE 3rd Street, Delray
Beach, Florida 33444

REVISIONS		
NUM.	DESCRIPTION	DATE
1	Bldg. Dept. comments	8/21/2015

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FILE NUMBER:
J:\100701 DELRAY CRA ART
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CENTRAL.rvt

DRAWING TITLE
LOUVER DETAILS

DATE
6/29/2015

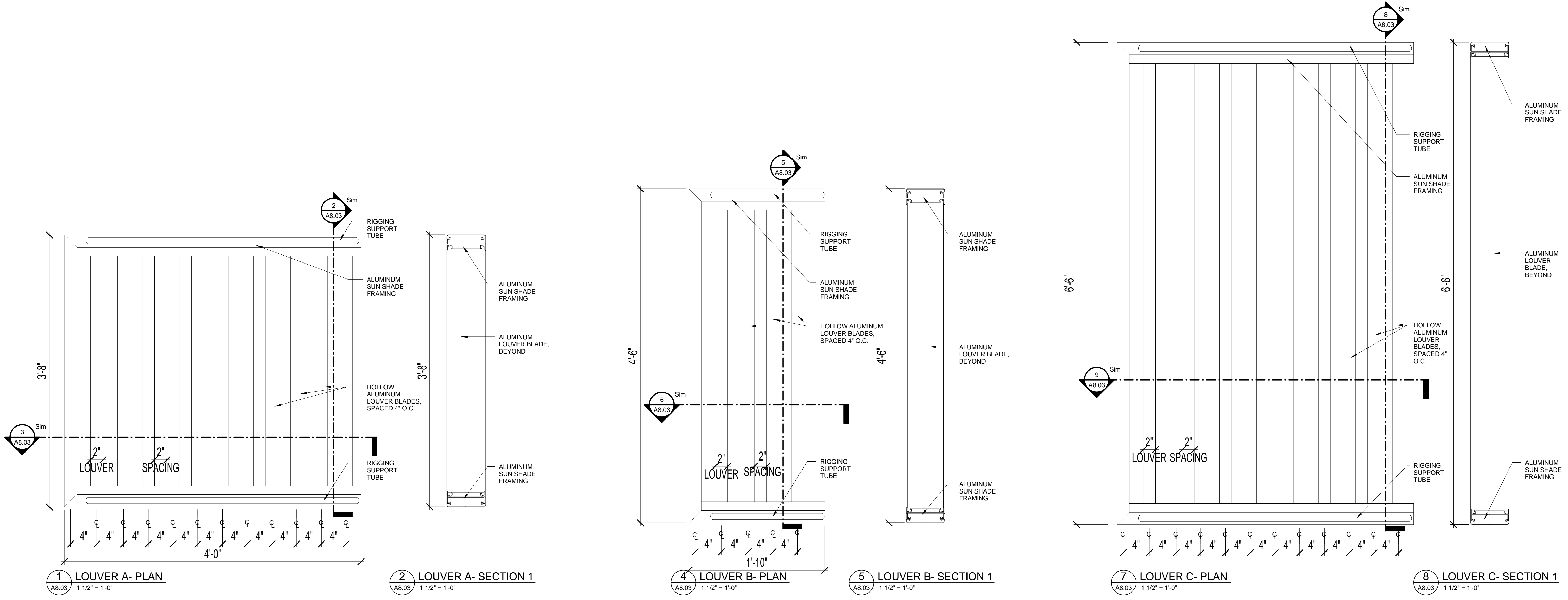
DRAWN BY
MM

JOB NUMBER
100701

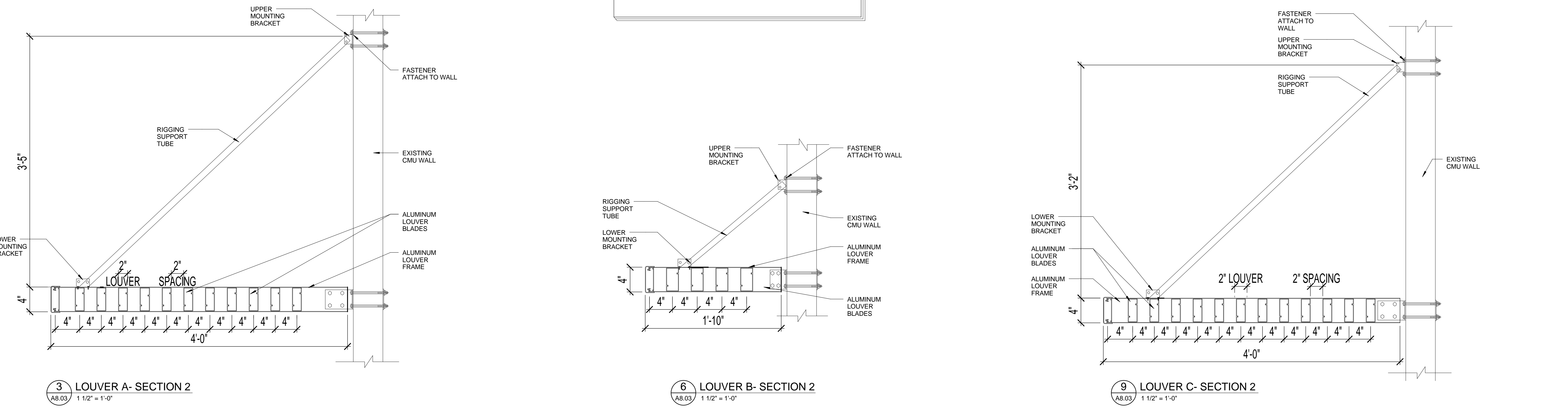
DRAWING NUMBER

A8.03

PERMIT SET 6/29/2015



NOTE: ALL EXPOSED FINISHES TO BE ALUMINUM POWDERCOAT PAINTED.



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Art Warehouse
Renovation

313 NE 3rd Street, Delray
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REVISIONS

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FILE NUMBER:
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DRAWING TITLE

WINDOW
DETAILS

DATE

6/29/2015

DRAWN BY

100701

JOB NUMBER

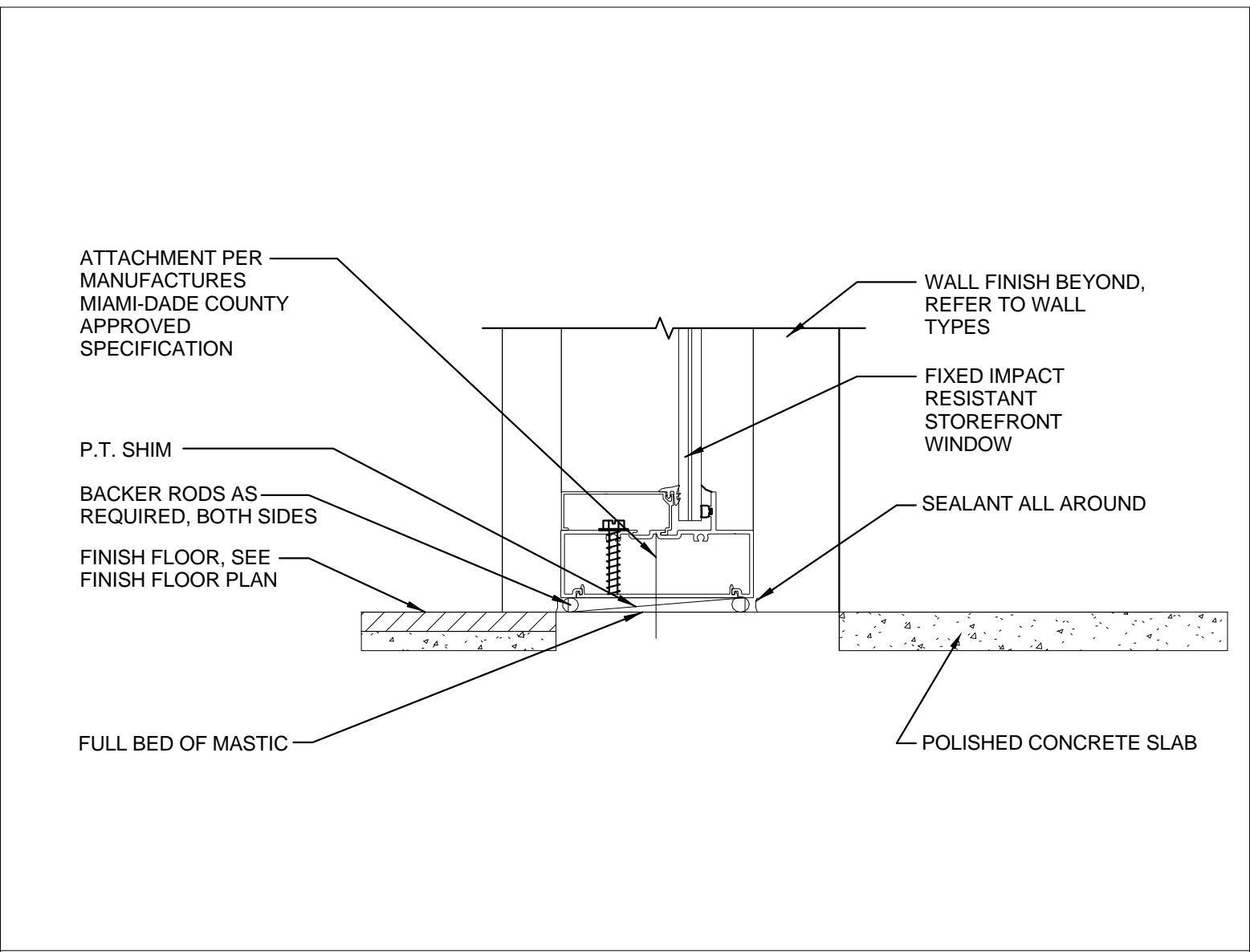
100701

DRAWING NUMBER

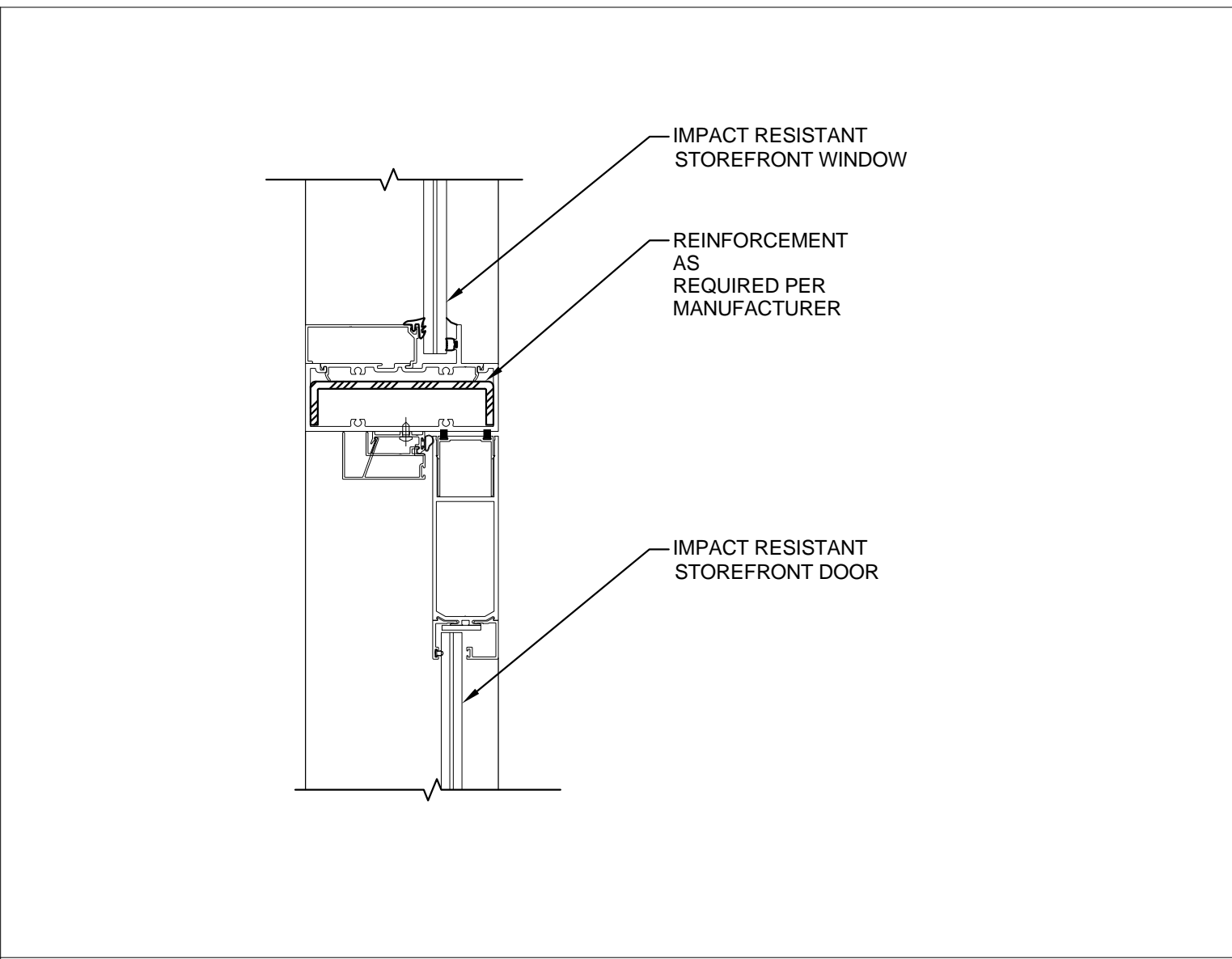
A8.04

PERMIT SET 6/29/2015

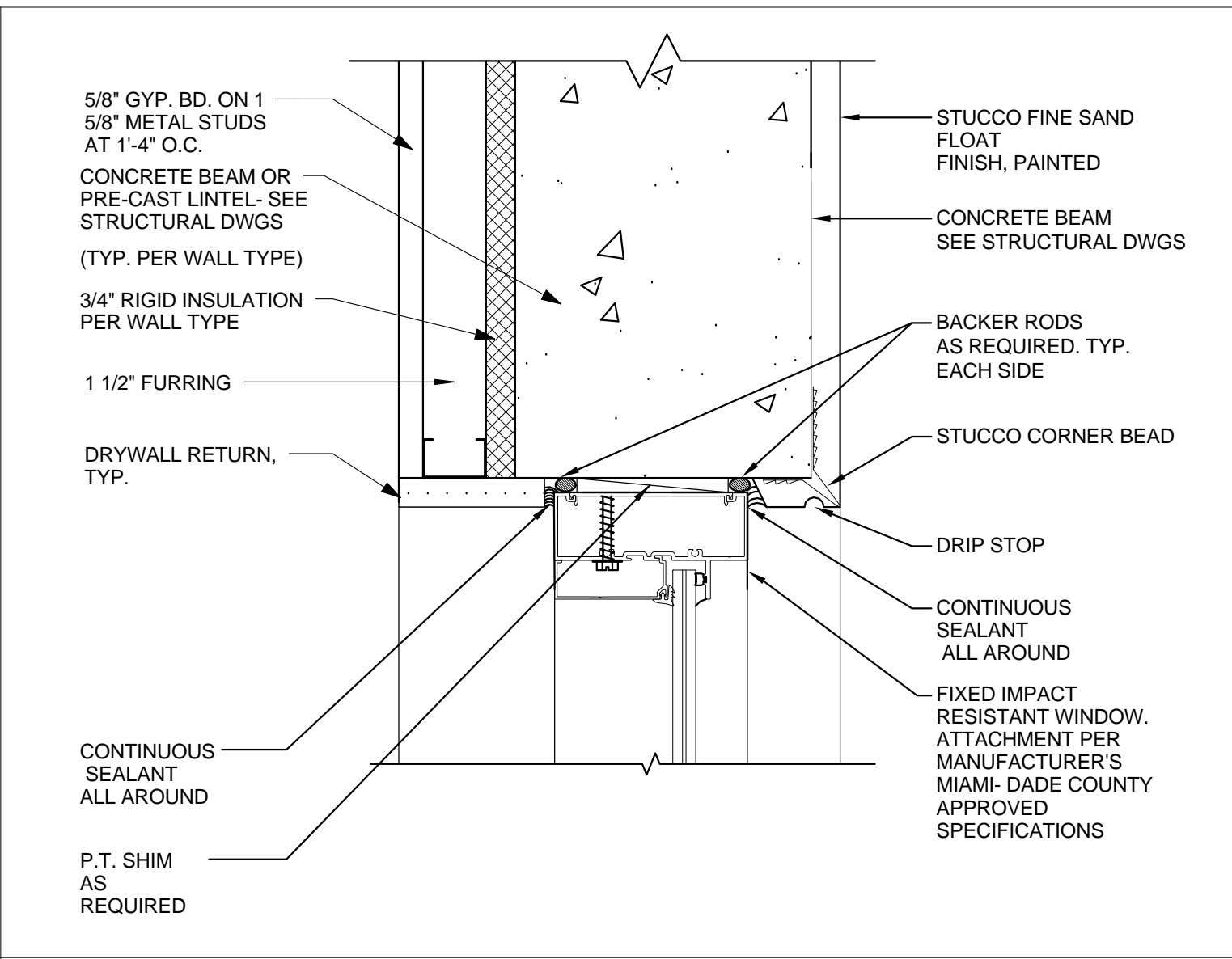
A8.04



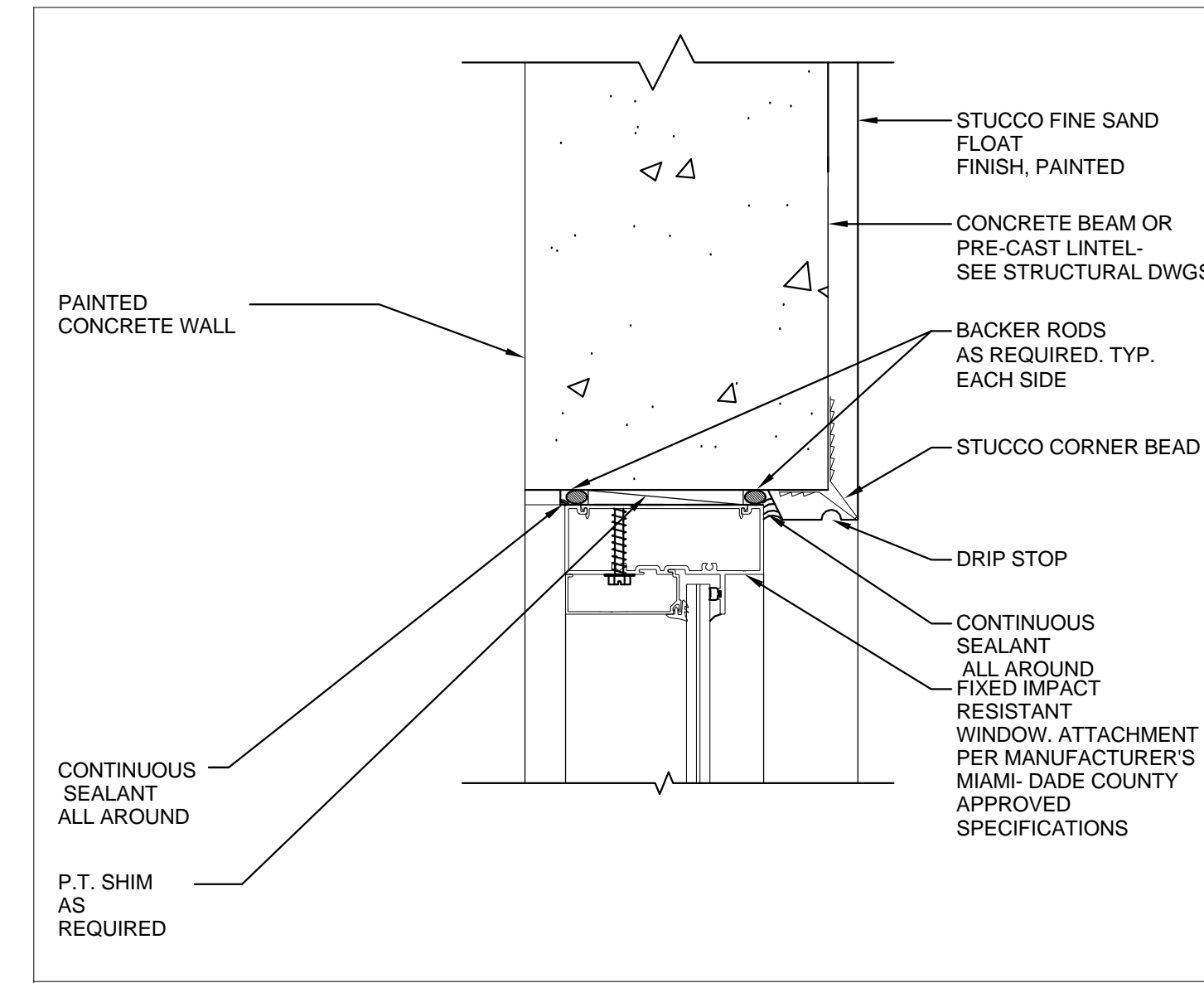
10 SILL @ SLAB DETAIL
A8.04 3" = 1'-0"



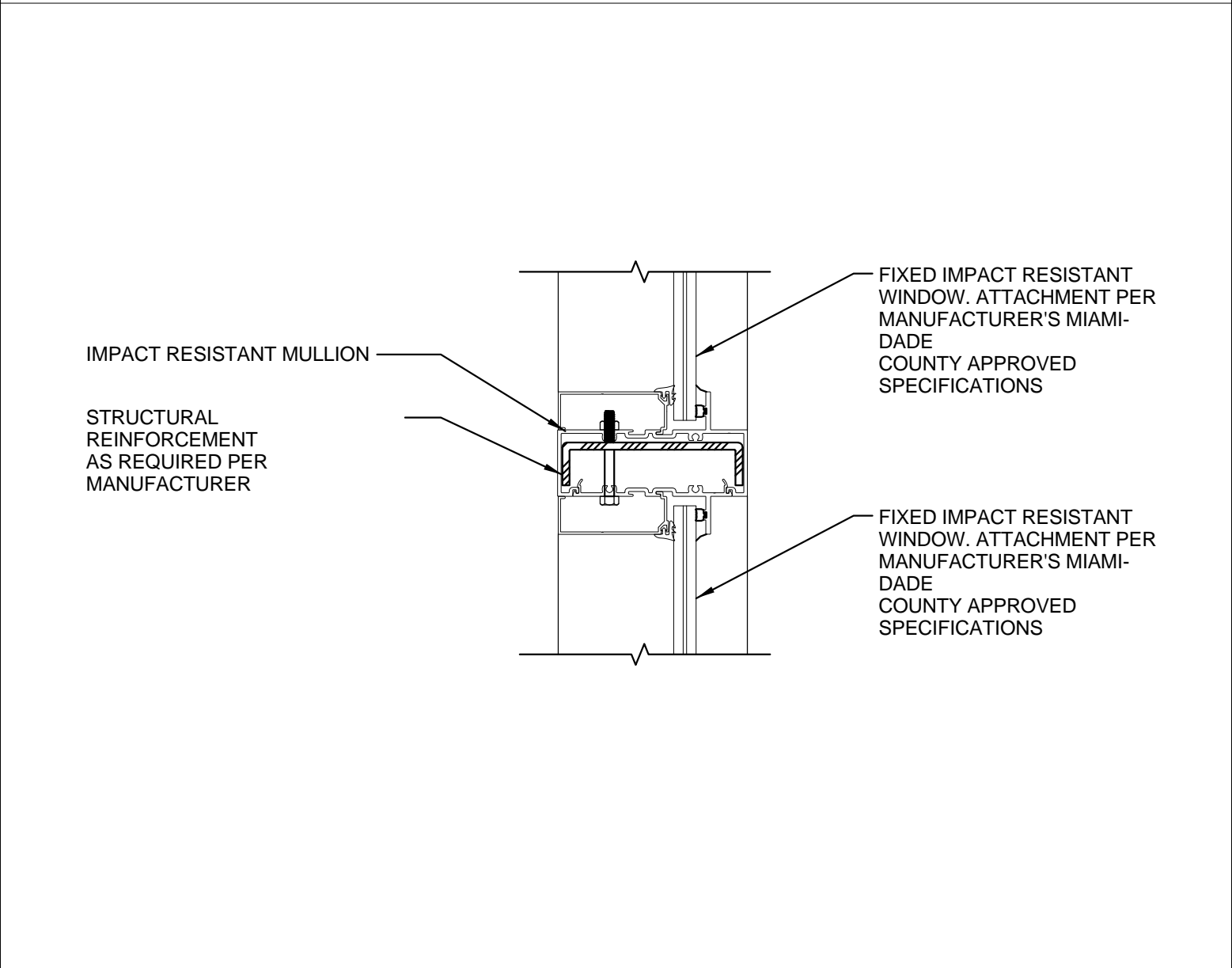
7 DOOR HEAD/TRANSOM DETAIL
A8.04 3" = 1'-0"



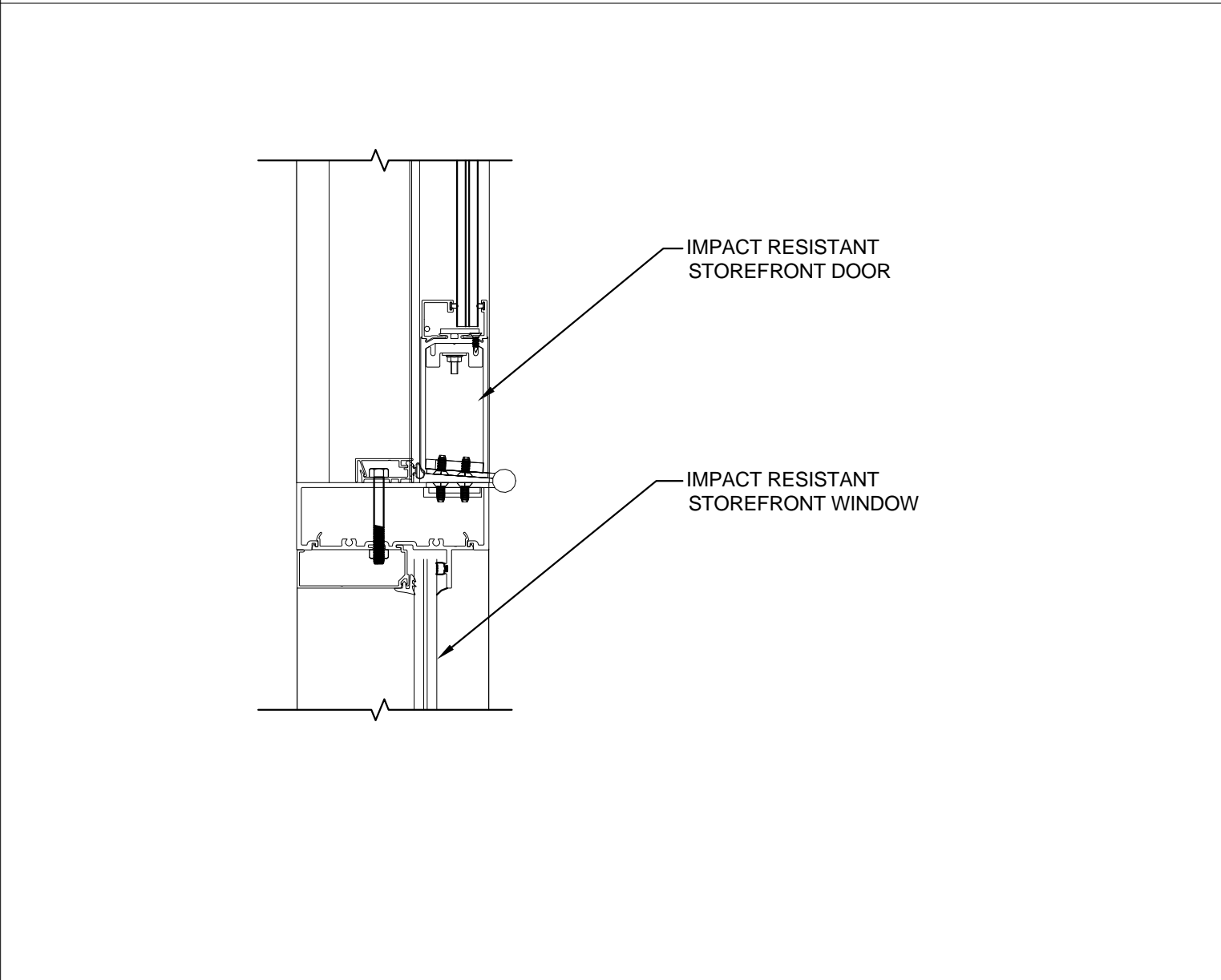
4 HEAD @ CONCRETE BEAM DETAIL
A8.04 3" = 1'-0"



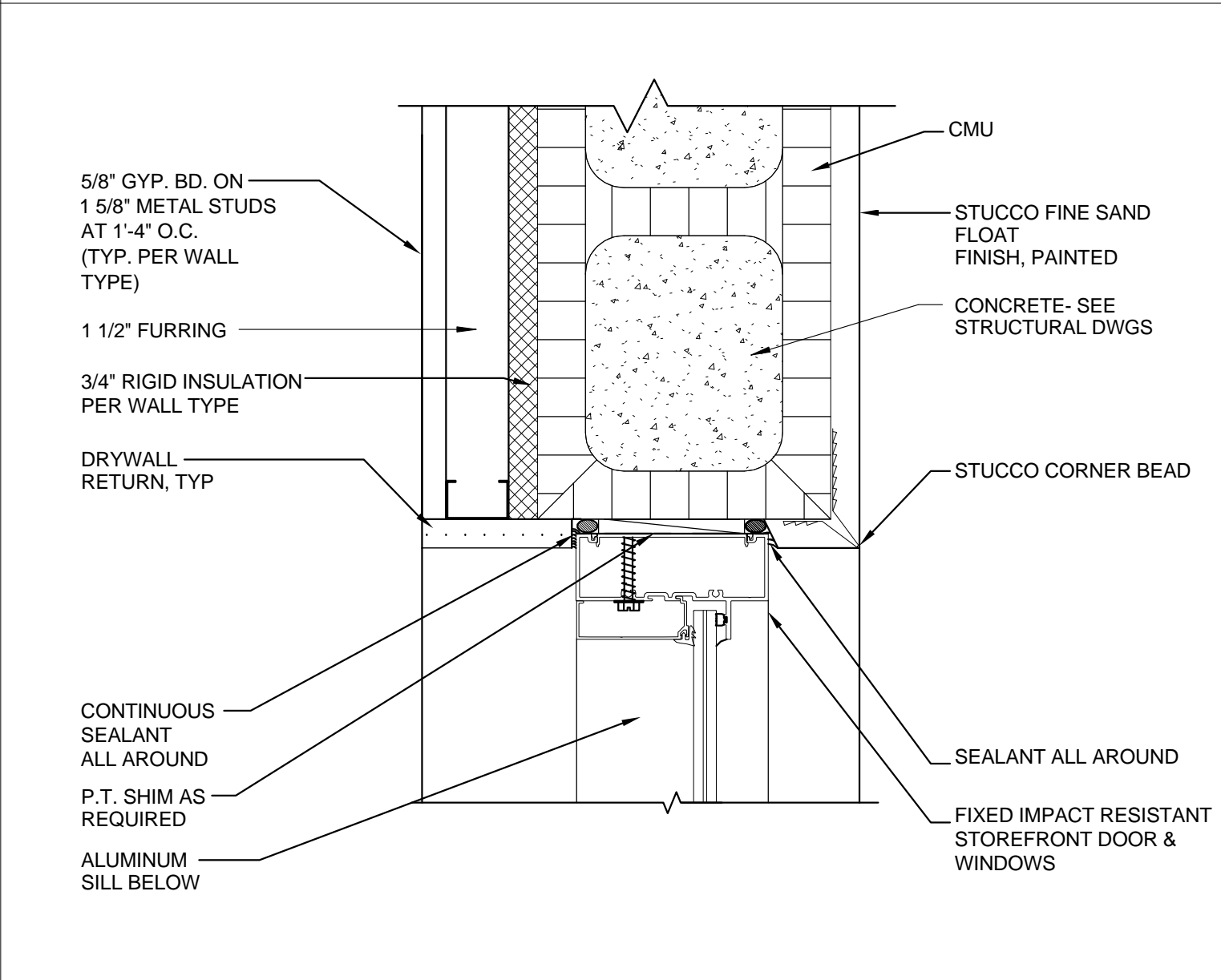
1 HEAD @ CONCRETE BEAM DETAIL 2
A8.04 3" = 1'-0"



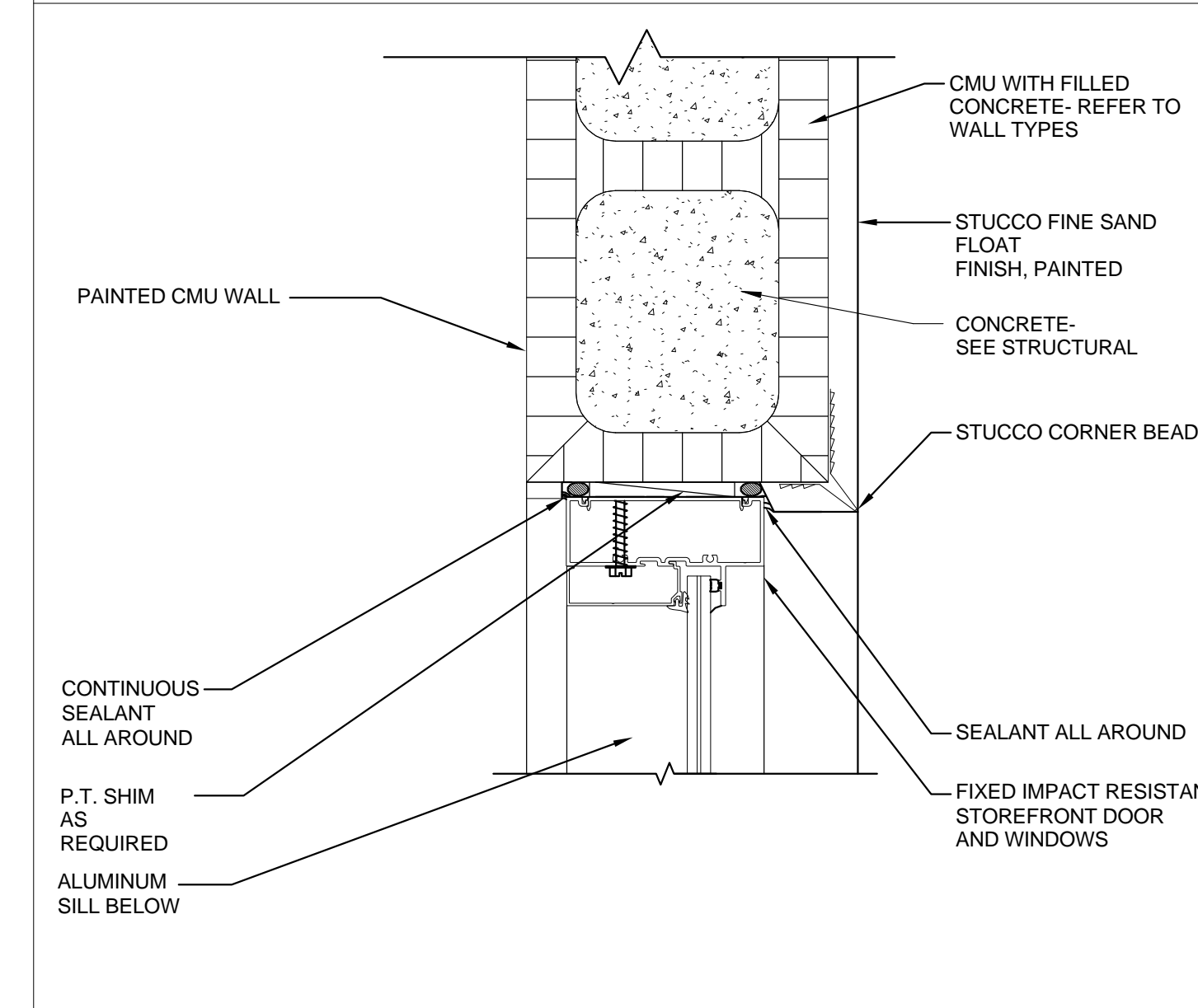
11 MULLION DETAIL
A8.04 3" = 1'-0"



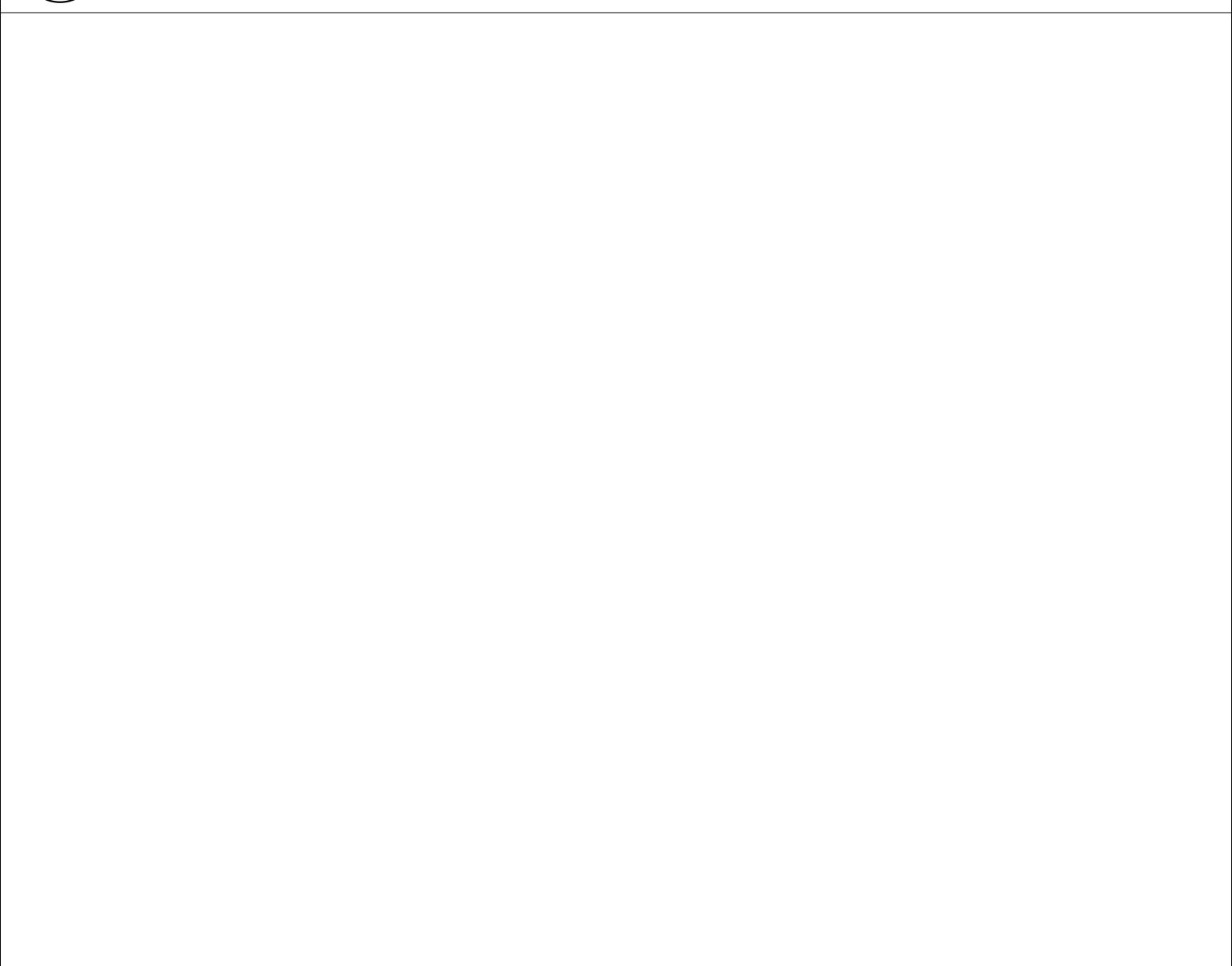
8 DOOR JAMB DETAIL
A8.04 3" = 1'-0"



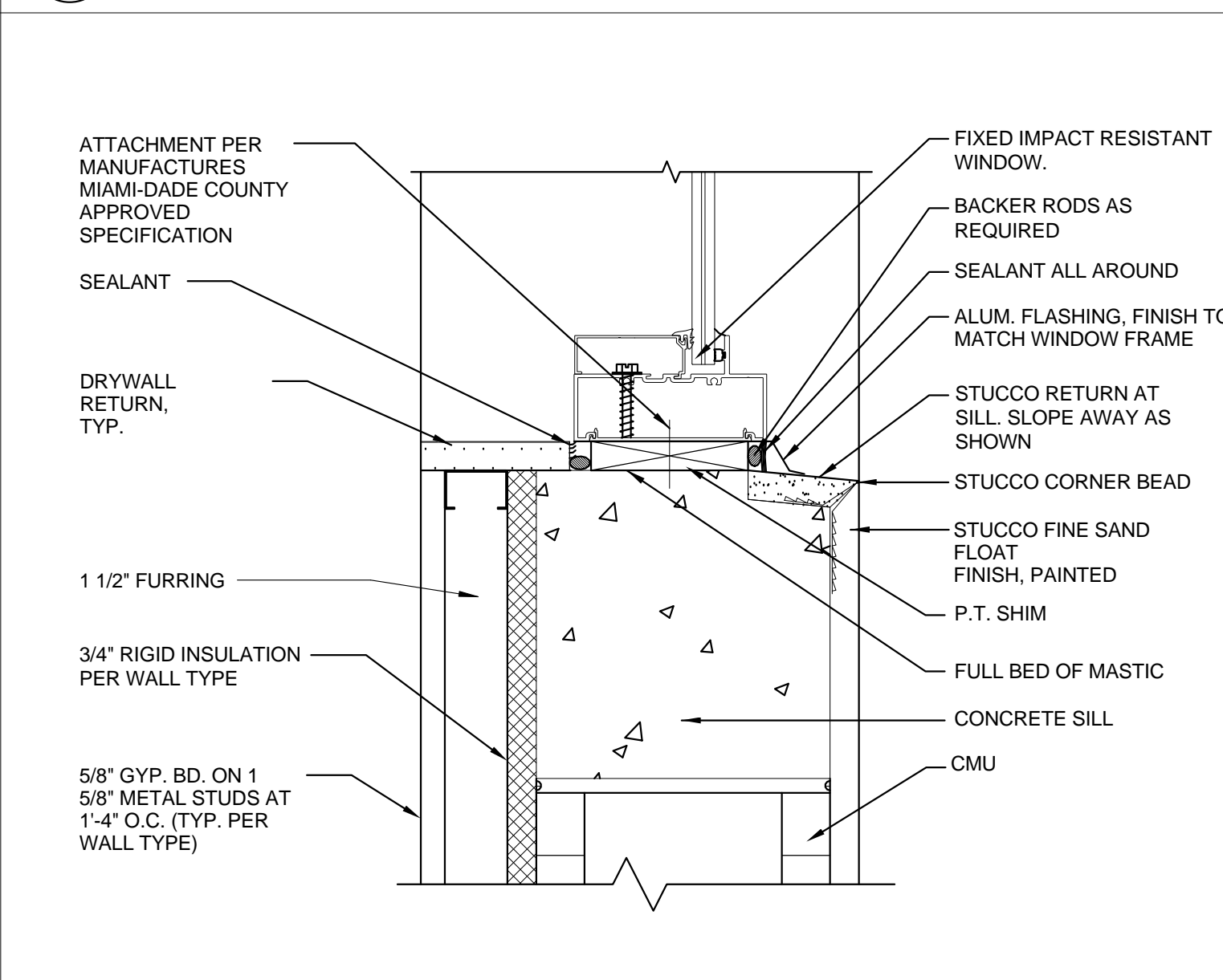
5 JAMB DETAIL 3
A8.04 3" = 1'-0"



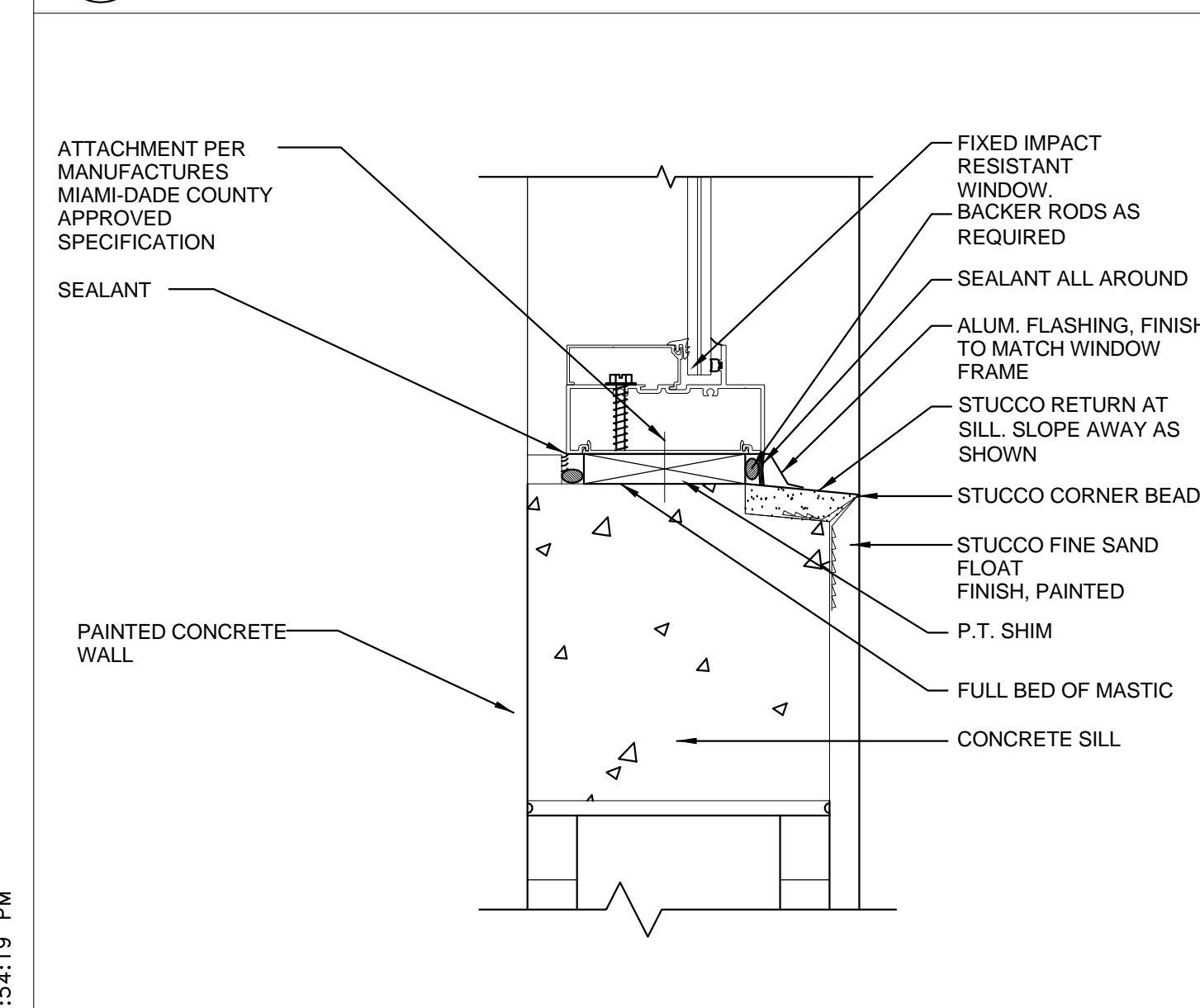
2 JAMB DETAIL 2
A8.04 3" = 1'-0"



9 DOOR THRESHOLD DETAIL
A8.04 3" = 1'-0"



6 SILL DETAIL
A8.04 3" = 1'-0"



3 SILL DETAIL 2
A8.04 3" = 1'-0"

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E-MAIL: office@csa-architects.com

ISSUED FOR :

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BIDS .

PERMIT 6/29/2015

CONSTRUCTION

SEAL

PROJECT TITLE

Art Warehouse
Renovation

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Beach, Florida 33444

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FILE NUMBER:
J:\100701 DELRAY CRA ART
INDICATOR\DRAWINGS\100701 -
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DRAWING TITLE
**CASEWORK
DETAILS**

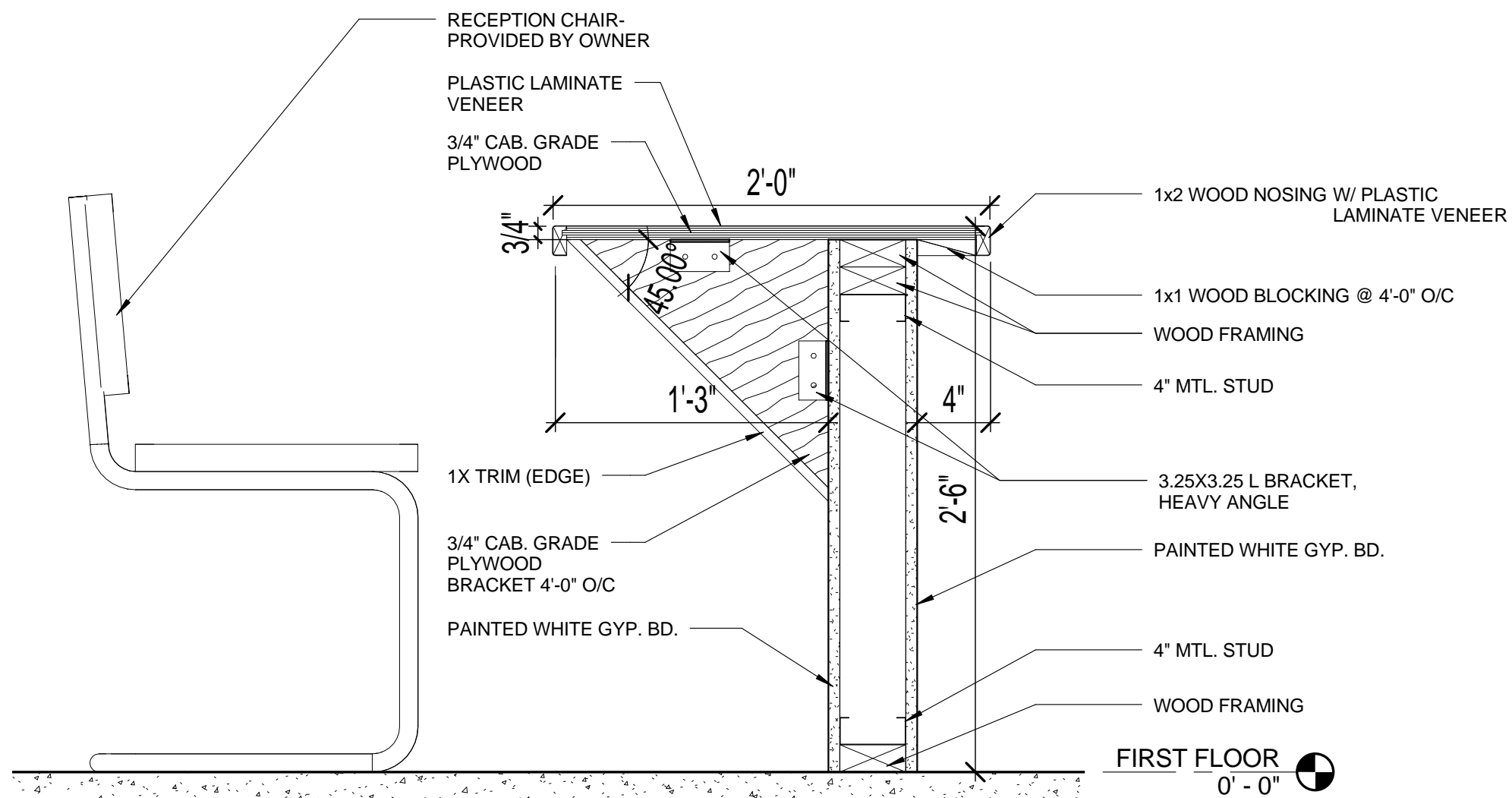
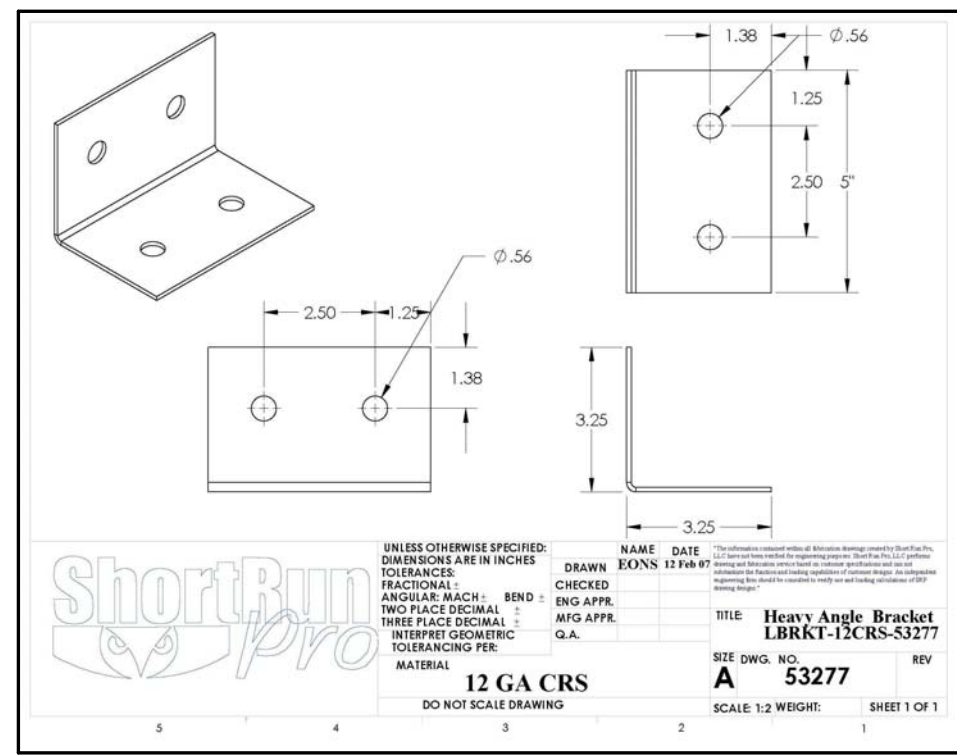
DATE
6/29/2015

DRAWN BY
MM

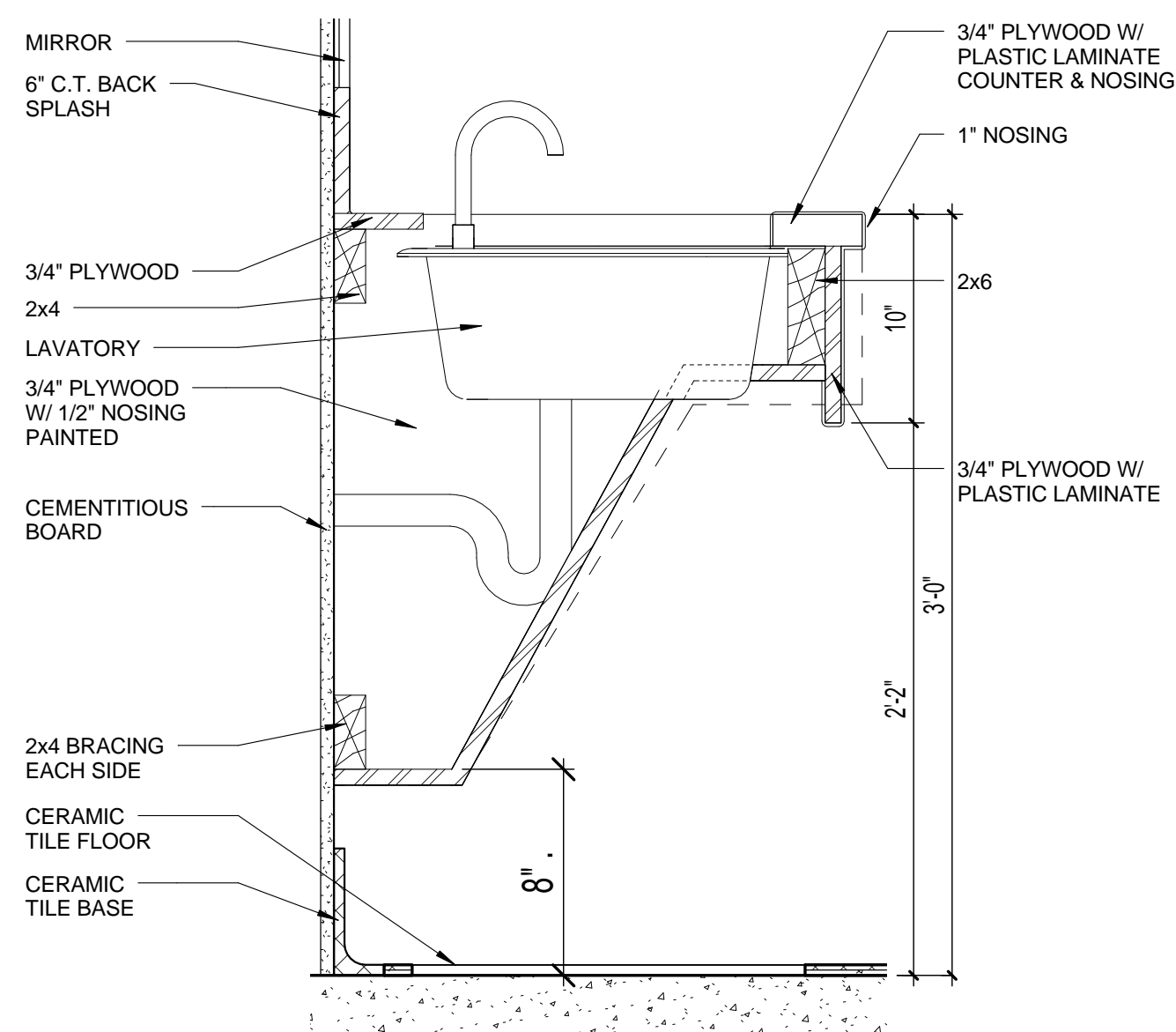
JOB NUMBER
100701

DRAWING NUMBER
A8.05

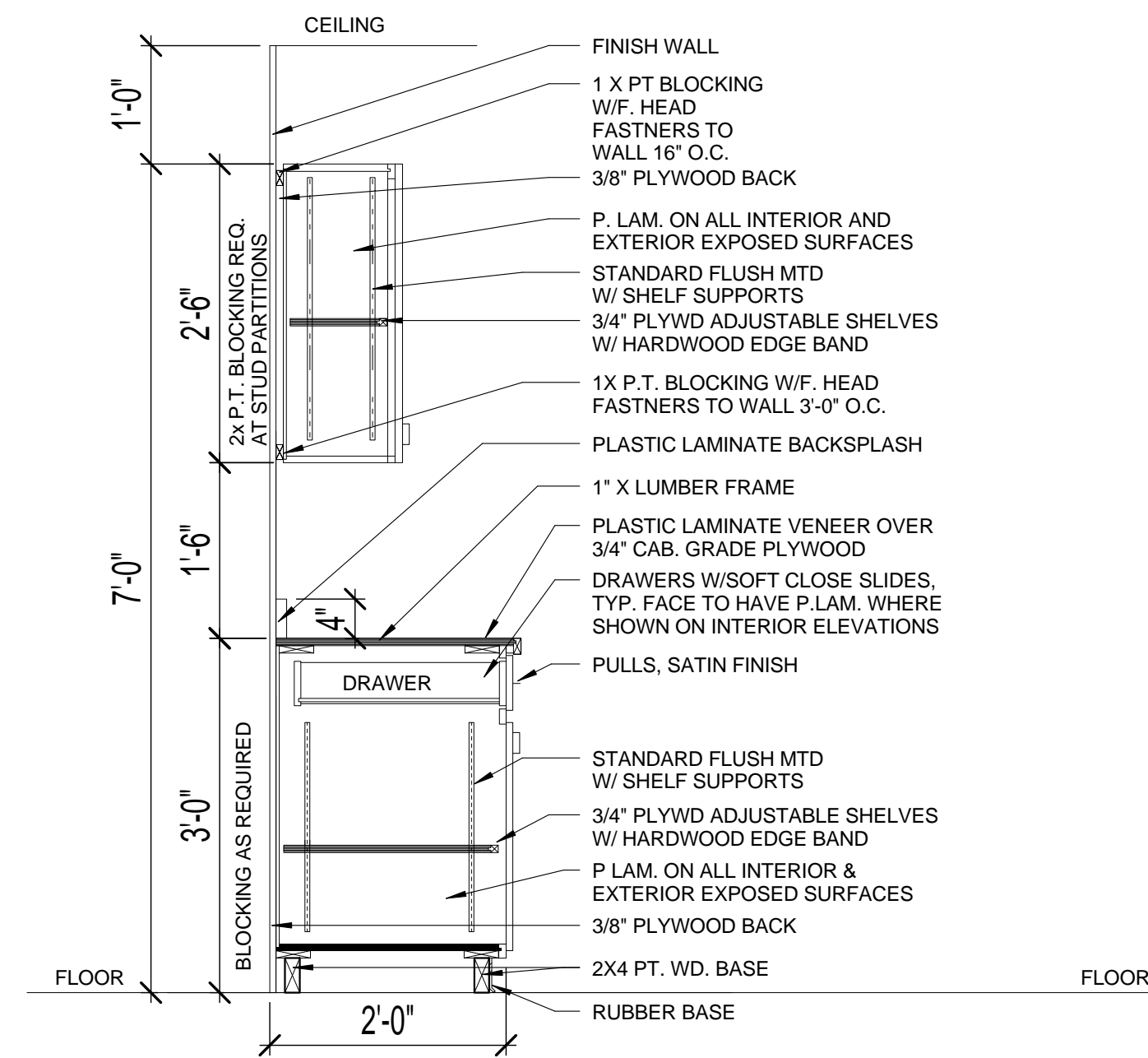
PERMIT SET 6/29/2015



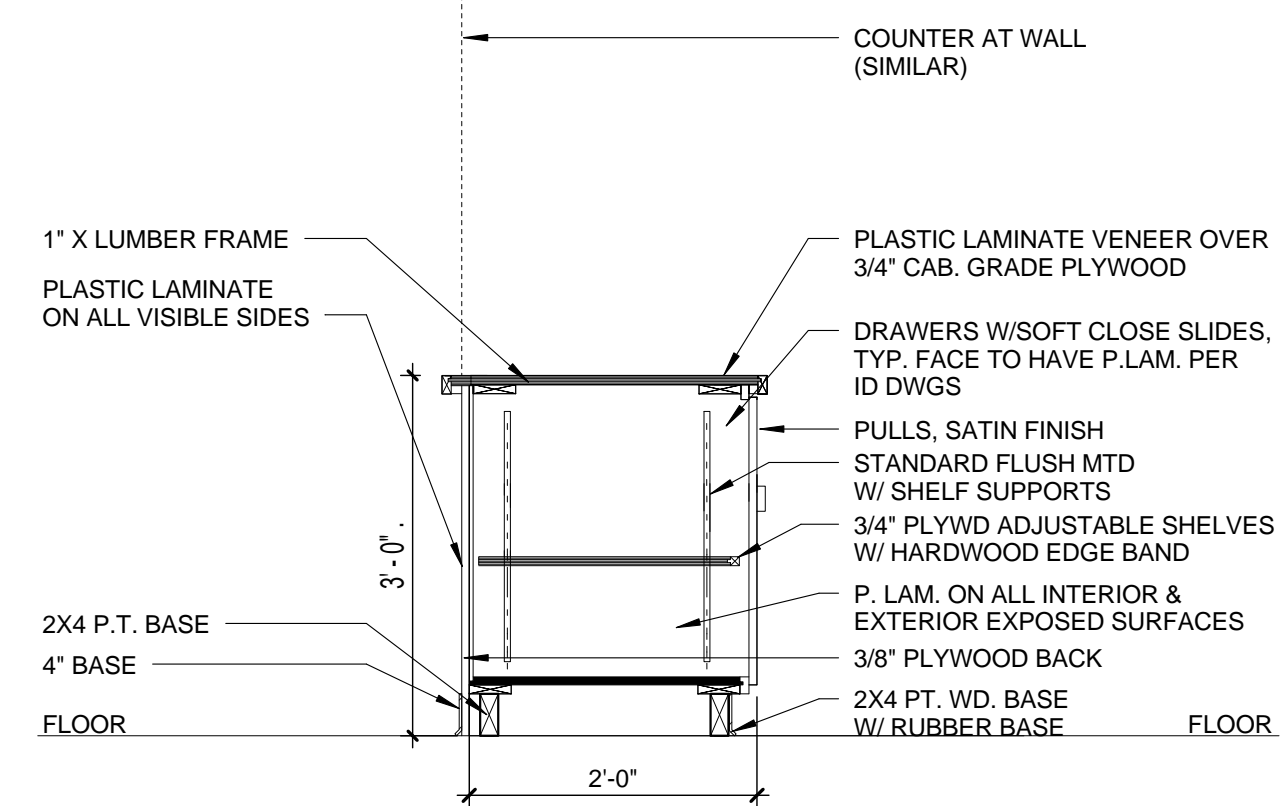
1 RECEPTION DESK DETAIL
A8.05 1 1/2" = 1'-0"



3 BATHROOM VANITY SECTION
A8.05 1 1/2" = 1'-0"



2 TYP. UPPER & LOWER CABINETS
A8.05 3/4" = 1'-0"



4 LOWER CABINETS
A8.05 3/4" = 1'-0"



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CONSTRUCTION

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1	Bldg. Dept. comments	8/21/2015
2	Bldg. Dept. comments	10/23/2015

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FILE NUMBER:
C:\Users\jim\Documents\100701 -

CENTRAL_jim\csoo-architects.com.rvt

DRAWING TITLE

DOOR SCHEDULE
& DETAILS

DATE

6/29/2015

DRAWN BY

MM, JC

JOB NUMBER

100701

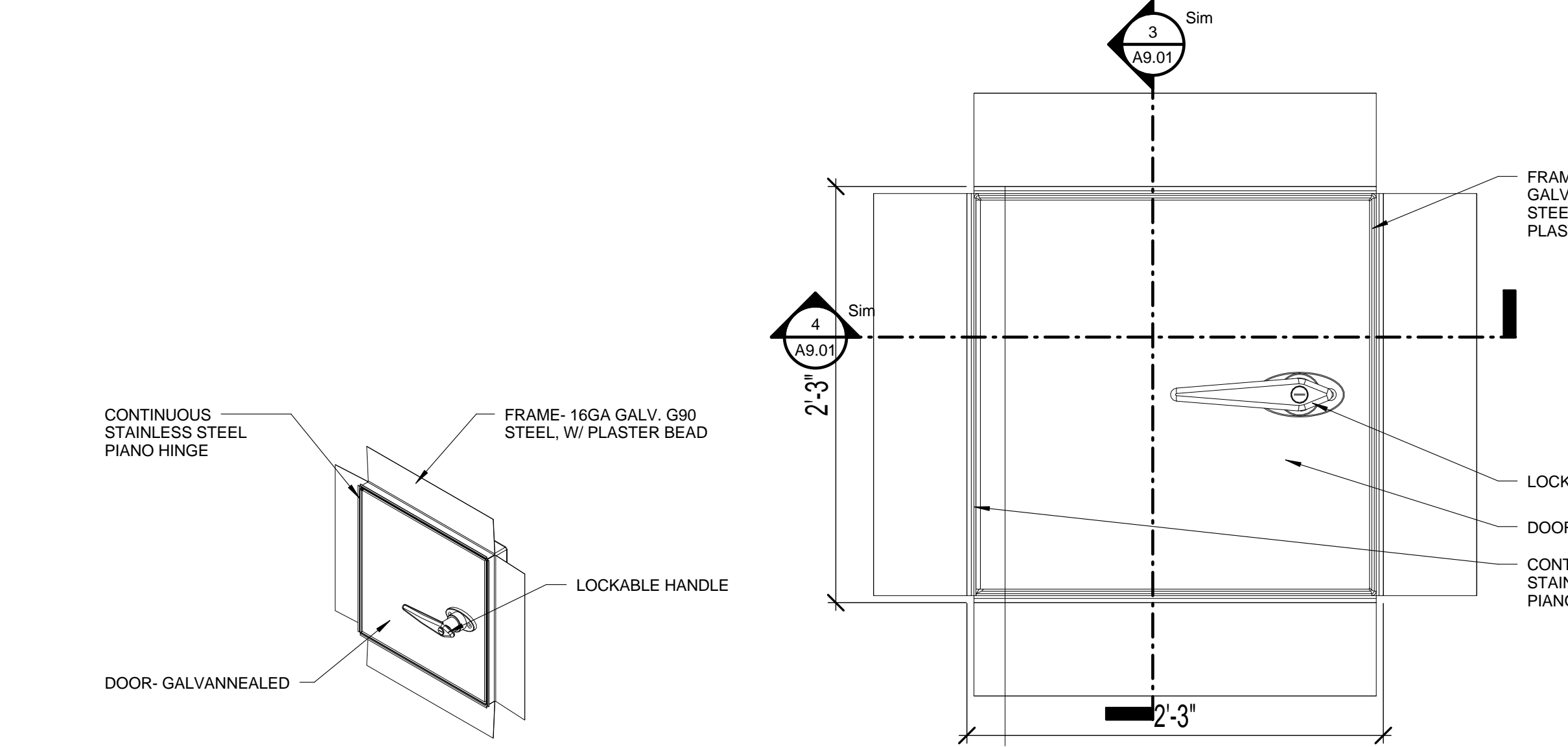
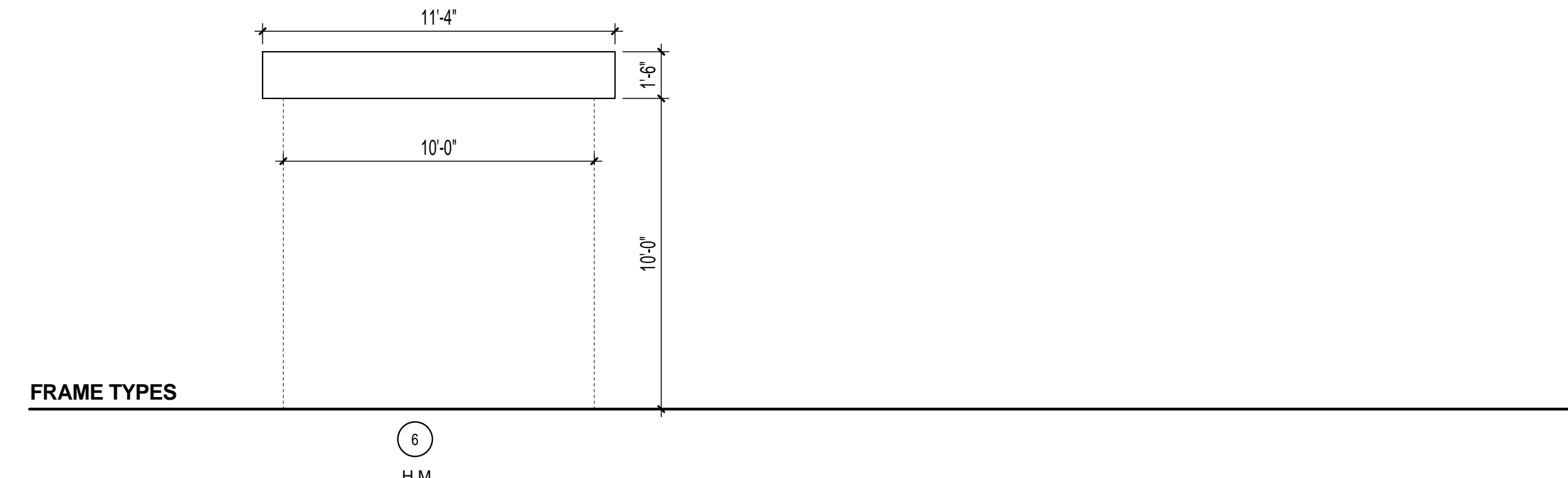
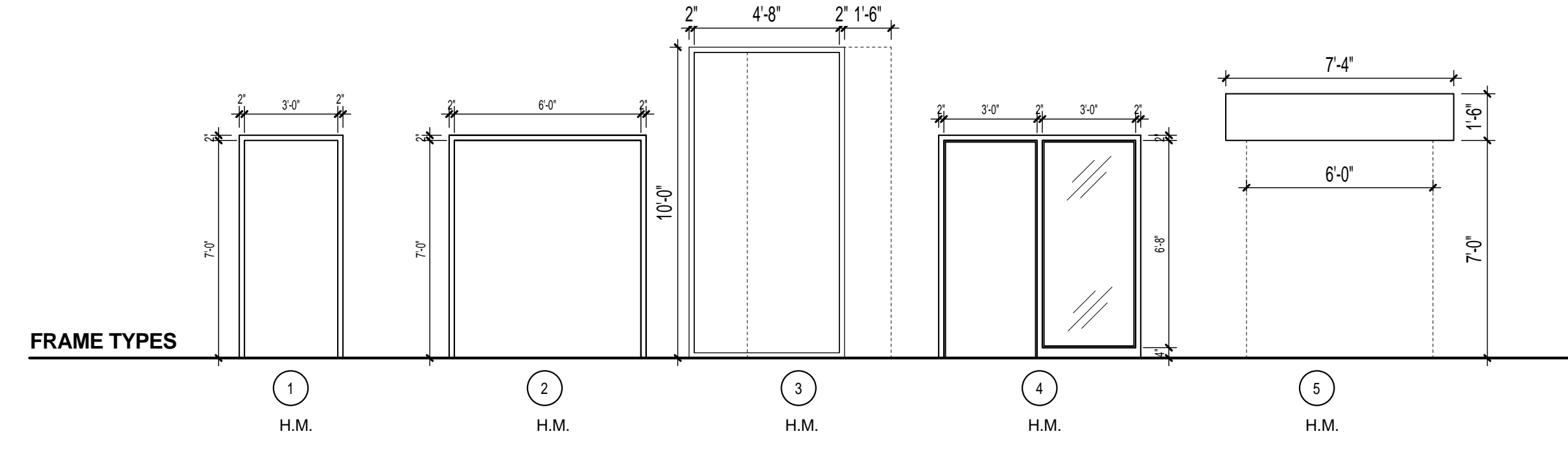
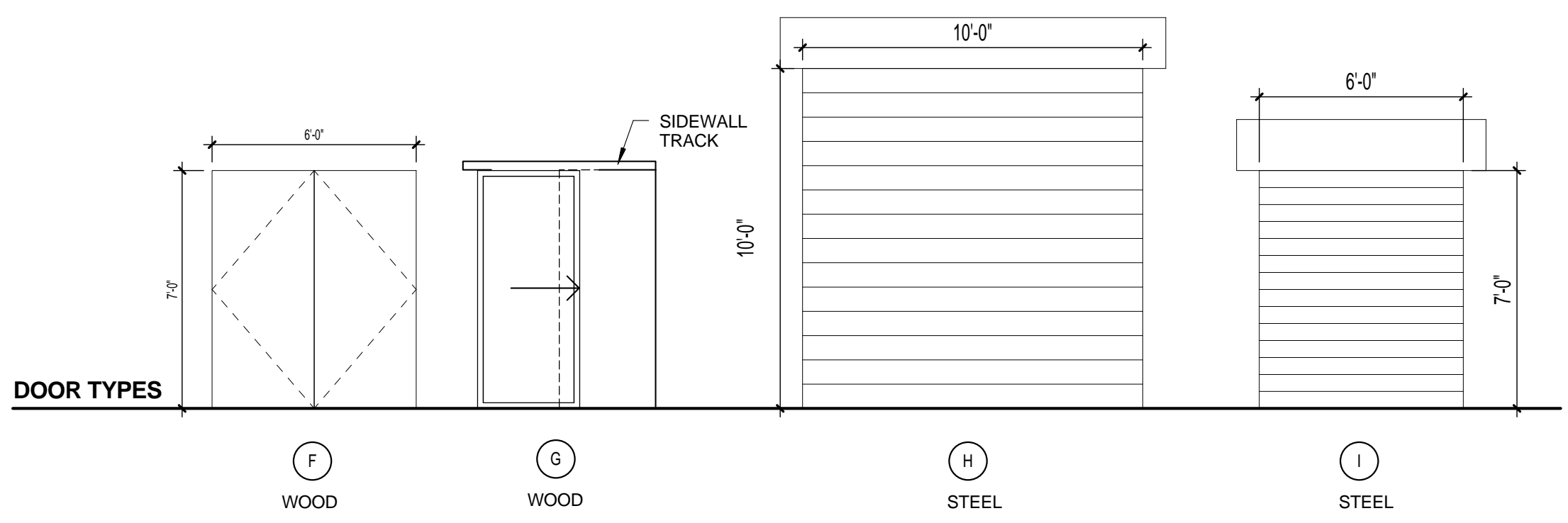
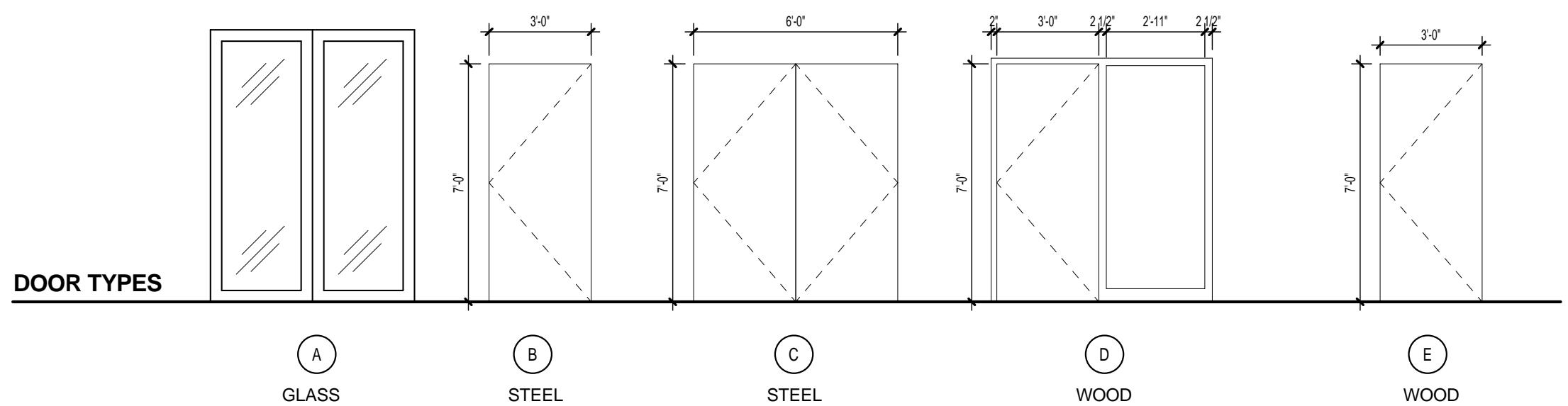
DRAWING NUMBER

A9.01

PERMIT SET 6/29/2015

DOOR SCHEDULE

MARK	DOOR SIZE			TYPE	DOOR MATERIAL	FINISH	Frame Type	FRAME		Assembly Description	FIRE RATED	REMARKS	SIGNAGE	HARDWARE
	WIDTH	HEIGHT	THICKNESS					MATERIAL	FINISH					
101A	10' - 0"	10' - 0"	0' - 2"	H	STEEL	PWD COAT	6	STEEL	POWDER COAT	Overhead Doors	5		OVERHEAD DOOR	ELECTRIC OPERATED
101B	6' - 0"	7' - 0"	0' - 2"	C	STEEL	KYNAR GREEN	2	H.M.	KYNAR GREEN	Exterior Doors		1, 2, 3, 4, 8, 10, 14	EXIT	ENTRANCE
102	3' - 0"	7' - 0"	0' - 1 3/4"	D	WOOD	STAINED	4	H.M.	PAINT	Interior Doors	-		STUDIO	CLASSROOM
103	3' - 0"	7' - 0"	0' - 1 3/4"	D	WOOD	STAINED	4	H.M.	PAINT	Interior Doors	-		STUDIO	CLASSROOM
104A	3' - 0"	7' - 0"	0' - 1 3/4"	D	WOOD	STAINED	4	H.M.	PAINT	Interior Doors	-		STUDIO	CLASSROOM
104B	3' - 0"	7' - 0"	0' - 1 3/4"	D	WOOD	STAINED	4	H.M.	PAINT	Interior Doors	-		STUDIO	CLASSROOM
105	3' - 0"	7' - 0"	0' - 1 3/4"	D	WOOD	STAINED	4	H.M.	PAINT	Interior Doors	-		STUDIO	CLASSROOM
106	3' - 0"	7' - 0"	0' - 1 3/4"	D	WOOD	STAINED	4	H.M.	PAINT	Interior Doors	-		STUDIO	CLASSROOM
107	3' - 0"	7' - 0"	0' - 1 3/4"	E	WOOD	STAINED	1	H.M.	PAINT	Interior Doors	-		TOILET	PRIVACY
108	6' - 0"	7' - 0"	0' - 1 3/4"	C	STEEL	FACTORY FIN	1	H.M.	FACTORY FIN	Interior Doors	45 MIN	4, 8	CORRIDOR	ENTRANCE
108A	6' - 0"	7' - 0"	0' - 2"	C	STEEL	FACTORY FIN	1	H.M.	FACTORY FIN	Exterior Doors		1, 2, 3, 4, 8, 10, 14	EXIT	ENTRANCE
109	6' - 0"	7' - 0"	0' - 2"	I	STEEL	PWD COAT	5	H.M.	POWDER COAT	Overhead Doors	5		OVERHEAD DOOR	ELECTRIC OPERATED
110	3' - 0"	7' - 0"	0' - 1 3/4"	E	WOOD	STAINED	1	H.M.	PAINT	Interior Doors	-	8	OFFICE	OFFICE
111	3' - 0"	7' - 0"	0' - 1 3/4"	E	WOOD	STAINED	1	H.M.	PAINT	Interior Doors	-		OFFICE	OFFICE
112	3' - 0"	7' - 0"	0' - 1 3/4"	E	WOOD	STAINED	1	H.M.	PAINT	Glazed Doors & Entrances			CLASSROOM	CLASSROOM
113	3' - 0"	7' - 0 1/2"	0' - 1 3/4"	E	WOOD	STAINED	1	STEEL	PAINT	Glazed Doors & Entrances			INCUBATOR	CLASSROOM
114	6' - 0"	7' - 0"	0' - 2"	F	WOOD	STAINED	2	H.M.	PAINT	Interior Doors	6, 8		BREAK ROOM	CLASSROOM
115	3' - 0"	7' - 0"	0' - 1 3/4"	E	WOOD	STAINED	1	H.M.	PAINT	Interior Doors	-	8	WOMEN	DUMMY
116	3' - 0"	7' - 0"	0' - 1 3/4"	B	WOOD	STAINED	1	H.M.	PAINT	Interior Doors	-	10	STORAGE	STORE ROOM
116A	6' - 0"	7' - 0"	0' - 1 3/4"	R	WOOD	STAINED	2	H.M.	PAINT	Interior Doors	-	10	STORAGE	STORE ROOM
117	3' - 0"	7' - 0"	0' - 1 3/4"	E	WOOD	STAINED	1	H.M.	PAINT	Interior Doors	-	8	MEN	DUMMY
118A	6' - 0"	7' - 0"	0' - 1 3/4"	Q	WOOD	STAINED	2	H.M.	PAINT	Interior Doors	-	8	LARGE WORK SPACE	ENTRANCE
118B	6' - 0"	7' - 0"	0' - 2"	C	WOOD	STAINED	2	H.M.	PAINT	Interior Doors	8		CORRIDOR	ENTRANCE
120	3' - 0"	7' - 0"	0' - 1 3/4"	B	STEEL	FACTORY FIN	1	H.M.	FACTORY FIN	Interior Doors	-		JANITOR	STORE ROOM
121	3' - 0"	7' - 0"	0' - 1 3/4"	B	STEEL	FACTORY FIN	1	H.M.	FACTORY FIN	Interior Doors	-	6, 8	ELECTRICAL	STORE ROOM
122	3' - 0"	7' - 0"	0' - 1 3/4"	D	WOOD	STAINED	4	H.M.	PAINT	Interior Doors	-		STUDIO	CLASSROOM
123	3' - 0"	7' - 0"	0' - 1 3/4"	D	WOOD	STAINED	4	H.M.	PAINT	Interior Doors	-		STUDIO	CLASSROOM
124	3' - 0"	7' - 0"	0' - 1 3/4"	D	WOOD	STAINED	4	H.M.	PAINT	Interior Doors	-		STUDIO	CLASSROOM
125	3' - 0"	7' - 0"	0' - 1 3/4"	D	WOOD	STAINED	4	H.M.	PAINT	Interior Doors	-		STUDIO	CLASSROOM
126	6' - 0"	7' - 0"	0' - 2"	I	STEEL	PWD COAT	5	H.M.	POWDER COAT	Overhead Doors	5		MAKER SPACE	ELECTRIC OPERATED
126A	6' - 0"	7' - 0"	0' - 2"	I	STEEL	PWD COAT	5	H.M.	POWDER COAT	Overhead Doors	5		MAKER SPACE	ELECTRIC OPERATED
126B	3' - 0"	7' - 0"	0' - 1 3/4"	B	WOOD	STAINED	1	H.M.	PAINT	Interior Doors	-		MAKER SPACE	CLASSROOM
126C	3' - 0"	7' - 0"	0' - 1 3/4"	D	WOOD	STAINED	4	H.M.	PAINT	Interior Doors	-		MAKER SPACE	CLASSROOM
127	6' - 0"	7' - 0"	0' - 2"	P	WOOD	STAINED	1	H.M.	PAINT	Interior Doors	-		CORRIDOR	ENTRANCE
127A	3' - 0"	7' - 0"	0' - 1 3/4"	B	STEEL	KYNAR GREEN	1	H.M.	KYNAR GREEN	Exterior Doors	-	1	EXIT	ENTRANCE
128	6' - 0"	7' - 0"	0' - 1"	A	GLASS/ALUMINUM	ALUM KYNAR WHITE	2	ALUMINU M	KYNAR WHITE	Exterior Glazed Doors- Aluminum		1, 2, 3, 4, 8, 10, 13, 14	EXIT	ENTRANCE
202A	3' - 0"	7' - 0"	0' - 1 3/4"	D	WOOD	STAINED	4	H.M.	PAINT	Interior Doors	-		STUDIO	CLASSROOM
202B	3' - 0"	7' - 0"	0' - 1 3/4"	D	WOOD	STAINED	4	H.M.	PAINT	Interior Doors	-		STUDIO	CLASSROOM
203A	3' - 0"	7' - 0"	0' - 1 3/4"	D	WOOD	STAINED	4	H.M.	PAINT	Interior Doors	-		STUDIO	CLASSROOM
203B	3' - 0"	7' - 0"	0' - 1 3/4"	D	WOOD	STAINED	4	H.M.	PAINT	Interior Doors	-		STUDIO	CLASSROOM
204A	3' - 0"	7' - 0"	0' - 1 3/4"	D	WOOD	STAINED	4	H.M.	PAINT	Interior Doors	-		STUDIO	CLASSROOM
204B	3' - 0"	7' - 0"	0' - 1 3/4"	D	WOOD	STAINED	4	H.M.	PAINT	Interior Doors	-		STUDIO	CLASSROOM
207A	3' - 0"	7' - 0"	0' - 1 3/4"	D	WOOD	STAINED	4	H.M.	PAINT	Interior Doors	-		STUDIO	CLASSROOM
207B	3' - 0"	7' - 0"	0' - 1 3/4"	D	WOOD	STAINED	4	H.M.	PAINT	Interior Doors	-		STUDIO	CLASSROOM
208A	3' - 0"	7' - 0"	0' - 1 3/4"	D	WOOD	STAINED	4	H.M.	PAINT	Interior Doors	-		STUDIO	CLASSROOM
208B	3' - 0"	7' - 0"	0' - 1 3/4"	D	WOOD	STAINED	4	H.M.	PAINT	Interior Doors	-		STUDIO	CLASSROOM
209A	3' - 0"	7' - 0"	0' - 1 3/4"	D	WOOD	STAINED	4	H.M.	PAINT	Interior Doors	-		STUDIO	CLASSROOM
209B	3' - 0"	7' - 0"	0' - 1 3/4"	D	WOOD	STAINED	4	H.M.	PAINT	Interior Doors	-		STUDIO	CLASSROOM
210	3' - 0"	7' - 0"	0' - 1 3/4"	B	STEEL	KYNAR GREEN	1	H.M.	KYNAR GREEN	Exterior Doors	8, 14		NOT AN EXIT	ENTRANCE
370	6' - 0"	7' - 0"	0' - 2"	F	WOOD	STAINED	2	H.M.	PAINT	Interior Doors	10		STORAGE	STORE ROOM
SW1	3' - 0"	7' - 0"	0' - 1 3/4"	B	STEEL	FACTORY FINISH	1	H.M.	FACTORY FINISH	Interior Doors	-	1, 4, 8	STAIR	ENTRANCE
SW2	3' - 0"	7' - 0"	0' - 1 3/4"	B	STEEL	FACTORY FINISH	1	H.M.	FACTORY FINISH	Interior Doors	-	1, 4, 8	STAIR	ENTRANCE



1 ACCESS DOOR- AXON 1
A9.01 1 1/2" = 1'-0"

2 ACCESS DOOR- ELEVATION 1
A9.01 1 1/2" = 1'-0"

3 ACCESS DOOR- SECTION 1
A9.01 1 1/2" = 1'-0"

4 ACCESS DOOR- SECTION 2
A9.01 1 1/2" = 1'-0"

GENERAL NOTES:

1. ALL NEW WOOD DOORS & FRAMES TO BE STAINED TO MATCH SAMPLE PROVIDED BY ARCHITECT.
2. AT GYP. BD. / STUD LOCATE DOOR JAMB 4" FROM NEAREST ADJACENT CORNER TYPICAL UNLESS OTHERWISE NOTED.
3. ALL DOORS TO BE PROVIDED WITH HINGES, DOOR SILENCERS, ASTRAGALS & COORDINATORS AND WALL BUMPERS AS APPROPRIATE TO THE CONFIGURATION OF THE DOOR.
4. ALL HARDWARE TO BE HANDICAP ACCESSIBLE.

REMARKS:

1. PANIC HARDWARE
2. TAMPER PROOF HINGES
3. WEATHER STRIPPING
4. FIRE EXIT HARDWARE
5. OVERHEAD COILING MOTOR OPERATED
6. SOUND SEAL AROUND DOOR AND PROVIDE DOOR SWEEP
7. INSWING FOLDING GLASS WALL SYSTEM (NOT USED)
8. CLOSER
9. OVERHEAD COILING MANUAL OPERATED
10. PROVIDE LOCK
11. SURFACE APPLIED MOLDING PER ARCHITECT
12. COUNTER HEIGHT INSWING FOLDING GLASS WALL SYSTEM
13. CONCEALED JAMB
14. IMPACT RESISTANT
15. OCCUPIED DOOR SIGN
16. PROVIDE AIR TIGHT DOOR LEAK SEAL

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ISSUED FOR :

SPRAB 3/05/2015

BIDS

PERMIT 6/29/2015

CONSTRUCTION

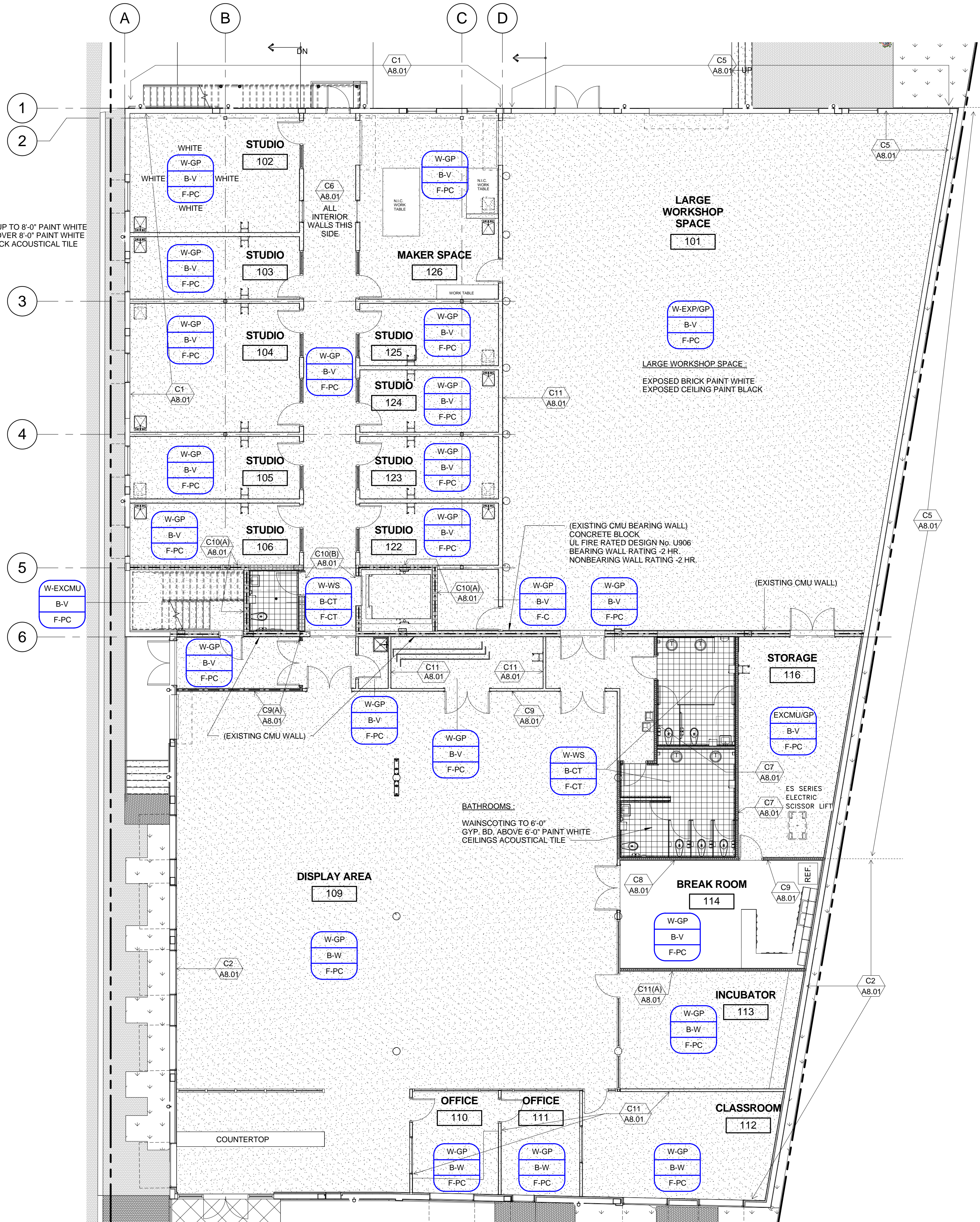
SEAL

PROJECT TITLE

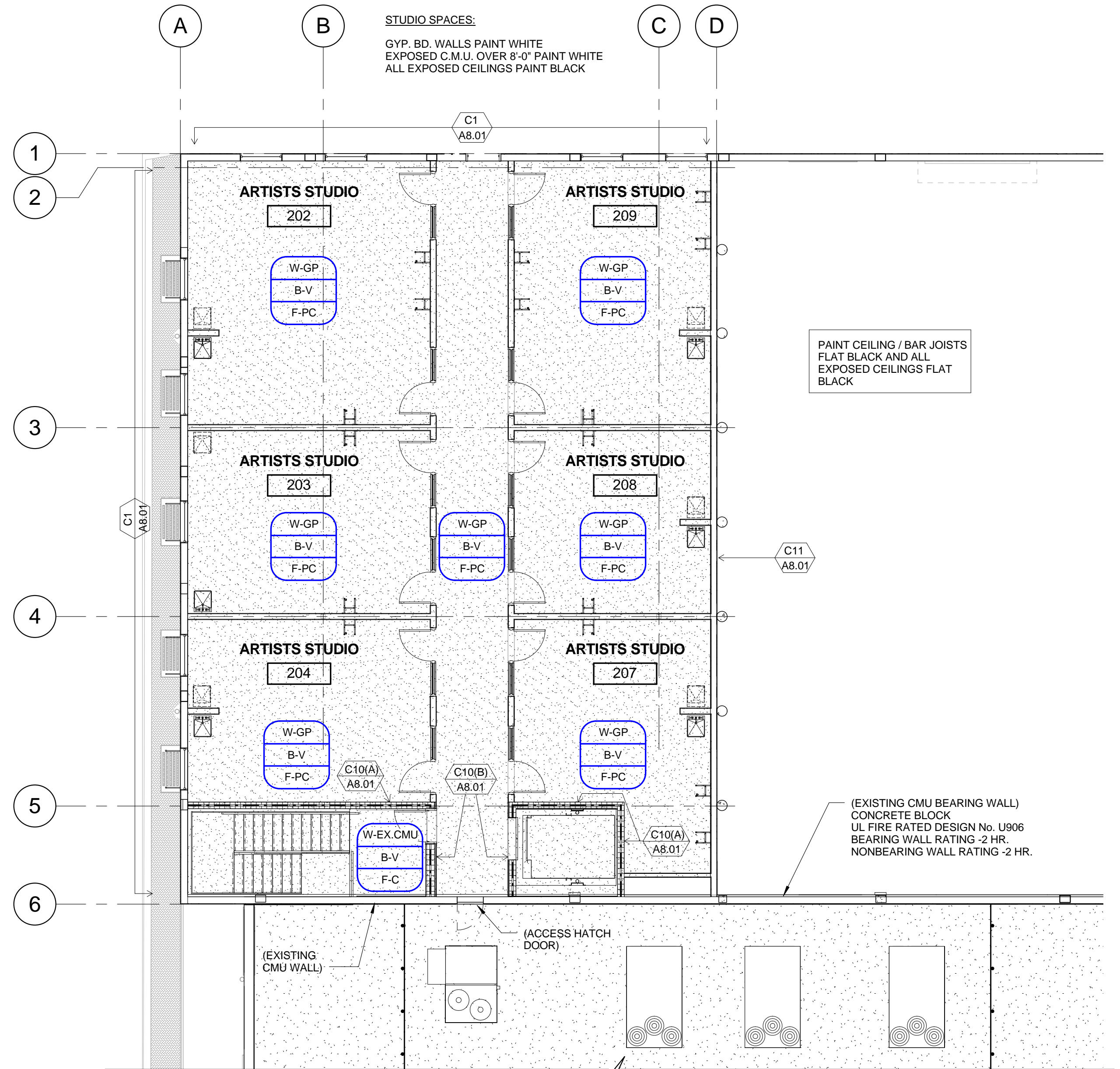
Art Warehouse Renovation

313 NE 3rd Street, Delray Beach, Florida 33444

NUM.	DESCRIPTION	DATE
1	Bldg. Dept. comments	8/21/2015



1 FIRST FLOOR FINISH PLAN
A9.03 1/8" = 1'-0"



2 SECOND FLOOR FINISH PLAN
A9.03 1/8" = 1'-0"

FINISH LEGEND		TYPICAL SYMBOL
WALL	DESCRIPTION	
GP	GYP. BD.- PAINTED	WALL FINISH/ MATERIAL PAINT COLOR FLOOR FINISH/ MATERIAL
CT	6"x6" CERAMIC TILE - COLOR TO BE SELECTED	
EXP	EXPOSED CMU	
EXCMU	EXPOSED CMU- PAINTED	FLOOR HATCH PATTERNS POLISHED CONCRETE (PC) 6" X 6" CERAMIC TILE (CT)
WS	WAINSCOTING 6' HIGH W/ GYP. BD. TO CEILING	
W	4" VINYL BASE ROPPE OR EQUAL SELECTED BY ARCHITECT	
BASE	DESCRIPTION	
CT	CERAMIC TILE ROLL TRANSITION COLOR TO BE SELECTED	
W	4" WOOD BASE- PAINT WHITE	
FLOOR	DESCRIPTION	
CT	6"x6" CERAMIC TILE -COLOR TO BE SELECTED	
PC	POLISHED CONCRETE	
C	CONCRETE	

GENERAL NOTE: ALL MASONRY & GYP. BD. WALLS AND EXPOSED CEILING PAINTED.

THESE DRAWINGS ARE PREPARED PER ESTABLISHED INDUSTRY STANDARDS AND REPRESENT THE ARCHITECT AND ENGINEERS DESIGN CONCEPT. THEY ARE NOT INTENDED TO PROVIDE EVERY DETAIL OR CONDITION REQUIRED TO CONSTRUCT THE BUILDING. THE CONTRACTOR THROUGH SUBMITTALS AND OTHER COORDINATION EFFORTS IS FULLY RESPONSIBLE FOR PROVIDING A COMPLETE AND OPERATIONAL BUILDING WHETHER INDICATED ON THE PLANS OR NOT.

DATE: 6/29/2015
JOB NUMBER: 100701
DRAWING NUMBER: A9.03

FINISH PLAN

PERMIT SET 6/29/2015

DRAWING TITLE

DATE: 6/29/2015 | DRAWN BY: MM

J:\100701 DELRAY CRA ART INCUBATOR\DRAWINGS\100701 - CENTRAL.rvt

DRAWING NUMBER

A9.03

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STRUCTURAL SPECIFICATIONS

MISCELLANEOUS

- 1. THE STRUCTURAL SYSTEM IS UNSTABLE UNTIL ALL CONNECTIONS HAVE BEEN MADE AND ALL CONCRETE HAS REACHED ITS MINIMUM DESIGN STRENGTH, AS SHOWN IN THE STRUCTURAL DRAWINGS.
- 2. CONTRACTOR IS RESPONSIBLE FOR MEANS AND METHODS OF CONSTRUCTION TO ENSURE THE SAFETY OF THE BUILDING UNTIL STRUCTURAL SYSTEM IS COMPLETED. THIS INCLUDES, BUT IS NOT LIMITED TO, THE ADDITION OF WHATEVER TEMPORARY BRACING, SHORING, GUYS OR TIE-DOWNS THAT MAY BE NECESSARY. SUCH MATERIAL SHALL BE REMOVED AND SHALL REMAIN THE PROPERTY OF THE CONTRACTOR AFTER COMPLETION OF THE PROJECT.
- 3. CONTRACTOR TO SUPPORT, BRACE AND SECURE EXISTING STRUCTURE AS REQUIRED. CONTRACTOR IS SOLELY RESPONSIBLE FOR THE SAFETY OF THE BUILDING DURING CONSTRUCTION.
- 4. APPLICABLE BUILDING CODE: 2010 FLORIDA BUILDING CODE.

AREA	SUPERIMPOSED	
	LIVE LOAD	TOTAL DEAD LOAD
ROOF	30 PSF	25 PSF
MEZZANINE	125 PSF	55 PSF

- 6. DESIGN SOIL BEARING PRESSURE = 1500 PSF. PROVIDE ONE COMPACTION TEST AT EACH FOOTING TO VERIFY COMPACTION. SUBMIT S&S GEOTECHNICAL COMPACTION REPORT TO ARCH. & BUILDING DEPARTMENT.
- 7. WIND DESIGN CRITERIA:
ULTIMATE BASIC WIND SPEED: V_{ult} = 170 MPH (3 SECOND GUST)
EQUIVALENT NOMINAL BASIC WIND SPEED V₅₀ = 132 MPH (3 SECOND GUST)
RISK CATEGORY = II
EXPOSURE CATEGORY = C
ENCLOSED BUILDING INTERNAL PRESSURE COEFFICIENT, GCPI = +/-0.18
WIND BORNE DEBRIS REGION
- 8. ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE REFERENCED BUILDING CODE.
- 9. COORDINATE ALL DIMENSIONS AND ELEVATIONS WITH THE ARCHITECTURAL DRAWINGS. DO NOT SCALE DRAWINGS.
- 10. CONTACT ENGINEER WITH ANY QUESTIONS OR DISCREPANCIES FOUND ON DRAWINGS.
- 11. SECTIONS AND DETAILS ARE REFERENCED IN TYPICAL LOCATIONS BUT ALSO APPLY TO ALL OTHER SIMILAR CONDITIONS.
- 12. CONTRACTOR TO VERIFY ALL EXISTING DIMENSIONS, ELEVATIONS, AND CONDITIONS PRIOR TO BEGINNING CONSTRUCTION.
- 13. SUBMIT SHOP DRAWINGS AS REQUIRED HEREIN. ALLOW FOR TWO WEEKS REVIEW TIME AFTER RECEIPT OF SUBMITTALS BY THIS FIRM. ALL SUBMITTALS SHALL BE CHECKED AND SIGNED BY THE GENERAL CONTRACTOR AND SIGNED/SEALED BY THE DELEGATED ENGINEER, WHERE SPECIFIED HEREIN.
- 14. CONTRACTOR SHALL NOT BE RELIEVED FROM RESPONSIBILITY FOR ERRORS OR OMISSIONS IN SHOP DRAWINGS OR MIX DESIGNS BY THE ENGINEER'S REVIEW THEREOF.
- 15. ANY CHANGES TO THE STRUCTURE SHALL HAVE BEEN REVIEWED AND APPROVED IN WRITING BY THE ENGINEER PRIOR TO COMMENCING WORK ON ITEMS AFFECTED.
- 16. CONTRACTOR SHALL NOTIFY THIS OFFICE WHEN THE STRUCTURAL SYSTEM IS SUBSTANTIALLY COMPLETED, AND BEFORE SHEATHING, CEILINGS, OR ROOFING IS INSTALLED.

HAND RAILS

- 1. AN ENGINEER REGISTERED IN THE STATE OF FLORIDA SHALL DESIGN RAILING SYSTEM AND CONNECTION OF IT TO THIS STRUCTURE.
- 2. SUBMIT SHOP DRAWINGS BEARING THE EMBOSSED SEAL AND THE SIGNATURE OF THE ENGINEER FOR REVIEW PRIOR TO FABRICATION.
- 3. THE CONFIGURATION OF THE RAILING SYSTEM SHALL BE AS SHOWN ON THE ARCHITECTURAL DRAWINGS.
- 4. RAILING SYSTEM AND CONNECTIONS SHALL BE DESIGNED FOR APPLICABLE LOADS AS INDICATED ON THE PLANS AND IN THE BUILDING CODE. THE LOADS SHALL BE CLEARLY INDICATED ON SHOP DRAWINGS.
- 5. SHOP DRAWINGS SHALL SHOW AND SPECIFY CONNECTIONS UTILIZED WITHIN THE RAILING SYSTEM AS WELL AS CONNECTIONS TO AND LOADS IMPOSED UPON THE STRUCTURAL SYSTEM SHOWN ON THESE PLANS.

GLAZED CURTAIN WALL, STOREFRONT, WINDOW AND DOOR SYSTEMS

- 1. EXTERIOR GLAZED OPENINGS SHALL BE DESIGNED IN ACCORDANCE WITH ACCEPTED ENGINEERING PRINCIPLES AND GOVERNING CODES.
- 2. THIS BUILDING HAS BEEN DESIGNED AS "ENCLOSED". REFER TO THE STRUCTURAL DRAWINGS FOR COMPONENTS AND CLADDING MINIMUM DESIGN WIND PRESSURES.
- 3. IF THIS SITE IS LOCATED WITHIN A WIND BORNE DEBRIS REGION, AS SHOWN IN FIGURE 1609 OF THE FLORIDA BUILDING CODE, ALL EXTERIOR GLAZED OPENINGS SHALL BE DESIGNED AND TESTED FOR MISSILE IMPACT OR PROTECTED BY APPROVED SCREENS OR SHUTTERS.
- 4. A LICENSED PROFESSIONAL ENGINEER SHALL DESIGN THE EXTERIOR GLAZED SYSTEMS, SHOP DRAWINGS, AND OVERSEE ANY LOAD TESTING.
- 5. SIGNED AND SEALED SHOP DRAWINGS, NOTICE OF ACCEPTANCE (NOA), OR FLORIDA PRODUCT APPROVAL DOCUMENTATION SHALL BE SUBMITTED IN ACCORDANCE WITH THE ARCHITECT'S REQUIREMENTS.

DELEGATED ENGINEER

- 1. WHERE NOTED HEREIN, A LICENSED PROFESSIONAL (DELEGATED) ENGINEER SHALL BE RETAINED TO DESIGN THE PRODUCT OR ASSEMBLY.

- 2. THE DELEGATED ENGINEER SHALL BE EXPERIENCED IN THE DESIGN OF THE REFERENCED PRODUCT OR ASSEMBLY.
- 3. THE DELEGATED ENGINEER MUST BE PROVIDED WITH A COPY OF THESE DRAWINGS AND SPECIFICATIONS.
- 4. IT IS THE DELEGATED ENGINEER'S RESPONSIBILITY TO REVIEW THE ENGINEER OF RECORD'S WRITTEN ENGINEERING REQUIREMENTS AND AUTHORIZATION FOR THE DELEGATED ENGINEERING DOCUMENT TO DETERMINE THE APPROPRIATE SCOPE OF ENGINEERING.
- 5. THE DELEGATED ENGINEERING DOCUMENT SHALL COMPLY WITH THE WRITTEN ENGINEERING REQUIREMENTS RECEIVED FROM THE ENGINEER OF RECORD. THEY SHALL INCLUDE THE PROJECT IDENTIFICATION AND THE CRITERIA USED AS A BASIS FOR ITS PREPARATION. IF A DELEGATED ENGINEER DETERMINES THERE ARE DETAILS, FEATURES OR UNANTICIPATED PROJECT LIMITS WHICH CONFLICT WITH THE WRITTEN ENGINEERING REQUIREMENTS PROVIDED BY THE ENGINEER OF RECORD, THE DELEGATED ENGINEER SHALL TIMELY CONTACT THE ENGINEER OF RECORD FOR RESOLUTION OF CONFLICTS.
- 6. THE DELEGATED ENGINEER SHALL FORWARD THE DELEGATED ENGINEERING DOCUMENT TO THE ENGINEER OF RECORD FOR REVIEW. ALL FINAL DELEGATED ENGINEERING DOCUMENTS REQUIRE THE IMPRESSED SEAL AND SIGNATURE OF THE DELEGATED ENGINEER AND INCLUDE:
A) DRAWINGS INTRODUCING ENGINEERING INPUT SUCH AS DEFINING THE CONFIGURATION OR STRUCTURAL CAPACITY OF STRUCTURAL COMPONENTS AND/OR THEIR ASSEMBLY INTO STRUCTURAL SYSTEMS.
B) CALCULATIONS.

EXISTING BUILDINGS

INFORMATION ON THE EXISTING BUILDING, SHOWN ON THESE PLANS, IS OBTAINED FROM EXISTING BUILDING PLANS BY CSA ARCHITECTS, DATED APRIL 6, 2015. EXISTING INFORMATION DOES NOT NECESSARILY REFLECT AS-BUILT CONDITIONS. THE CONTRACTOR SHALL VERIFY ALL INFORMATION SHOWN ON THESE PLANS AND NOTIFY THE ENGINEER OF ANY VARIATION.

SITE WORK

- 1. A QUALIFIED TESTING LABORATORY SHALL BE RETAINED TO PERFORM THE FOLLOWING MINIMUM TESTS.
A) ONE DENSITY TEST FOR EACH 2,000 SQUARE FEET OF COMPACTED SUBGRADE AND COMPACTED FILL.
B) ONE DENSITY TEST AT EACH COLUMN FOOTING.
C) ONE DENSITY TEST PER 50 FEET OF WALL FOOTING.
- 2. THE GEOTECHNICAL ENGINEER SHALL DETERMINE THE METHOD OF TESTING. (BORINGS, PROBES, HAND AUGERS, ETC.)
- 3. A SIGNED/SEALED SOILS COMPACTION REPORT SHALL BE SUBMITTED TO THE A/E, WHICH SHALL INCLUDE CONSTRUCTION TESTING REQUIREMENTS.
- 4. SINCE FOUNDATION DESIGN INFORMATION WAS NOT AVAILABLE AT THE TIME THESE DRAWINGS WERE PREPARED, THE FOLLOWING ASSUMPTIONS WERE MADE:
A) MAXIMUM BEARING PRESSURE = 1500 PSF
B) MAXIMUM SETTLEMENT = 3/4"
C) MAXIMUM DIFFERENTIAL SETTLEMENT = 1/2"
- 5. ONE COPY OF ALL TEST REPORTS SHALL BE SENT DIRECTLY TO OWNER, ARCHITECT, STRUCTURAL ENGINEER, AND GENERAL CONTRACTOR.
- 6. FOUNDATION WALLS THAT RETAIN EARTH SHALL BE BRACED AGAINST BACKFILLING PRESSURES UNTIL FLOOR SLABS AT TOP AND BOTTOM ARE IN PLACE.
- 7. THE SIDES OF FOOTINGS SHALL BE FORMED WITH PLYWOOD.
- 8. EXERCISE CARE WHEN COMPACTING NEAR ADJACENT STRUCTURES. FOLLOW THE RECOMMENDATIONS IN THE SOILS REPORT AND DOCUMENT EXISTING CONDITIONS WITH PHOTOGRAPHS PRIOR TO STARTING WORK.
- 9. PRIOR TO CONSTRUCTION, CONTRACTOR SHALL LOCATE ALL EXISTING UNDERGROUND UTILITY LINES, TANKS, ETC. WITHIN THE CONSTRUCTION AREA AND RELOCATE THEM AS DIRECTED BY THE CIVIL ENGINEER.

CAST IN PLACE CONCRETE

- 5. ALL CAST-IN-PLACE CONCRETE WORK INCLUDES REINFORCING STEEL AND RELATED WORK SHOWN INCLUDING FORMWORK, SETTING ANCHOR BOLTS, PLATES, FRAMES, DOWELS FOR MASONRY OR OTHER ITEMS EMBEDDED IN CONCRETE.
- 6. APPLICABLE STANDARDS

ACI NUMBER	TITLE
117	STANDARD SPECIFICATIONS FOR TOLERANCES FOR CONCRETE CONSTRUCTION
226	GROUND GRANULATED BLAST-FURNACE SLAG
301	STANDARD SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS
302	GUIDE FOR CONCRETE FLOOR AND SLAB CONSTRUCTION
304	GUIDE FOR MEASURING MIXING, TRANSPORTING AND PLACING CONCRETE
304.2R	PLACING CONCRETE BY PUMPING METHODS.
305R	HOT WEATHER CONCRETING
306R	COLD WEATHER CONCRETING
308	STANDARD PRACTICE FOR CURING CONCRETE
309R	GUIDE FOR CONSOLIDATION OF CONCRETE
315	MANUAL OF STANDARD PRACTICE FOR DETAILING CONCRETE STRUCTURES
318	BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE
347	RECOMMENDED PRACTICE FOR CONCRETE FORMWORK
CRSI NUMBER	TITLE
63	RECOMMENDED PRACTICE FOR PLACING REINFORCING BARS

- 7. CONCRETE MATERIALS
A) PORTLAND CEMENT - ASTM C 150, TYPE I
B) AGGREGATES - NORMAL WEIGHT CONCRETE, COARSE AND FINE, ASTM C33. STRUCTURAL LIGHT WEIGHT ASTM C330.
C) AIR-ENTRAINING - ASTM C260
D) WATER REDUCING - ASTM C494, TYPE A
E) WATER - FRESH, CLEAN AND POTABLE
F) NO ACCELERATORS, RETARDERS OR ADMIXTURES CONTAINING CHLORIDES WILL BE PERMITTED
G) FLY-ASH - ASTM C618, CLASS F, 20% MAXIMUM OF CEMENTITIOUS MATERIAL BY WEIGHT. DO NOT USE FOR EXPOSED SLABS OR ARCHITECTURAL CONCRETE.
H) SUPER PLASTICIZER - ASTM C494, TYPE F OR G, WHERE AUTHORIZED BY THE ENGINEER.
I) GROUND GRANULATED BLAST-FURNACE SLAG CEMENT - ASTM C989, 50% MAXIMUM BY WEIGHT.
J) MAXIMUM AGGREGATE SIZE - FOOTINGS = #57, OTHERS #67

- 4. REINFORCING MATERIALS
A) DEFORMED BARS - ASTM A615, GRADE 60
B) SMOOTH DOWELS - ASTM A615, PLAIN BARS, MINIMUM YIELD STRENGTH OF 60,000 PSI.
C) CORROSION RESISTANT UNCOATED STEEL (MMFX-2) - ASTM A615, GRADE 75 AND ASTM A1035 LOW-CARBON (8% MINIMUM) CHROMIUM BY MMFX OR EQUAL.
D) WELDED WIRE FABRIC - ASTM A185, PLAIN WIRE FABRIC IN FLAT SHEETS ONLY.
E) ACCESSORIES TO CONFORM TO ACI 315.
F) WHERE CONCRETE SURFACES ARE EXPOSED, MAKE THOSE PORTIONS OF ALL ACCESSORIES IN CONTACT WITH THE CONCRETE SURFACE OR WITHIN 1/2 INCH THEREOF, OF PLASTIC OR STAINLESS STEEL.
- 5. PROVIDE THE FOLLOWING MINIMUM CONCRETE STRENGTHS AT 28 DAYS:
A) FOOTINGS, SLAB-ON-GRADE-----3000 PSI
B) REGULAR/LIGHTWEIGHT FILL ON METAL DECK-----3000 PSI
C) MASONRY WALL BEAMS, TIE COLUMNS-----3000 PSI
D) FORMED COLUMNS, WALLS, BEAMS & SLABS-----4000 PSI
- 6. CONCRETE MUST BE BATCHED, MIXED AND TRANSPORTED IN ACCORDANCE WITH THE SPECIFICATIONS FOR READY-MIXED CONCRETE ASTM C94.
- 7. REQUIRED SLUMP = 4 PLUS OR MINUS ONE INCH.

- 8. CONCRETE MUST BE PLACED WITHIN 90 MINUTES OF BATCH TIME. WHEN AIR TEMPERATURE IS BETWEEN 85 AND 90 DEGREES F, REDUCE MIXING AND DELIVERY TIME TO 75 MINUTES. WHEN AIR TEMPERATURE IS HIGHER THAN 90 DEGREES F, REDUCE MIXING AND DELIVERY TIME TO 60 MINUTES.
- 9. DO NOT ADD WATER AT THE JOB SITE WITHOUT APPROVAL OF THE PROJECT SUPERINTENDENT. DO NOT EXCEED THE SLUMP LIMITATION. USE ONLY COLD WATER FROM THE TRUCK TANK. ANY ADDED WATER MUST BE INDICATED ON THE DELIVERY TICKET PLUS THE NAME OF THE PERSON AUTHORIZING. TEST CYLINDERS SHALL BE TAKEN AFTER THE ADDITION OF WATER.
- 10. LAP SPLICE REINFORCING 48 BAR DIAMETERS MINIMUM UNLESS OTHERWISE SHOWN OR NOTED.
- 11. PROVIDE CORNER BARS AT ALL WALL FOOTING, WALL AND BEAM CORNERS. SIZE AND NUMBER TO MATCH HORIZONTAL BARS.
- 12. PROVIDE FOUNDATION DOWELS TO MATCH SIZE AND NUMBER OF VERTICAL BARS. EMBED DOWELS TO:
A) 3" ABOVE BOTTOM OF FOOTINGS
- 13. REINFORCEMENT SHALL BE FASTENED AND SECURED TOGETHER TO PREVENT DISPLACEMENT BY CONSTRUCTION LOADS OR THE PLACING OF CONCRETE.

- 14. REINFORCING BAR COVER
A) FOOTINGS 2" (TOP), 3" (SIDES AND BOTTOM)
B) COLUMNS AND BEAMS 1-1/2"
C) SLABS 3/4" (INTERIOR), 1-1/2" (EXTERIOR)

- 15. WHERE BAR LENGTHS ARE GIVEN ON THE DRAWINGS, LENGTH OF HOOK, IF REQUIRED, IS NOT INCLUDED.
- 16. SELECT PROPORTIONS IN ACCORDANCE WITH ACI 301 TO PROVIDE CONCRETE CAPABLE OF BEING PLACED WITHOUT EXCESSIVE SEGREGATION AND WITH ACCEPTABLE FINISHING PROPERTIES, DURABILITY, SURFACE HARDENERS, APPEARANCE, AND STRENGTH REQUIREMENTS REQUIRED BY THESE SPECIFICATIONS.
- 17. CHAIR WELDED WIRE FABRIC REINFORCING AT 3'-0" ON CENTER MAXIMUM IN EACH DIRECTION.

- 18. MAXIMUM WATER TO CEMENT RATIO WHEN NO BACK-UP DATA IS AVAILABLE:
A) 4000 PSI, 28-DAY COMPRESSIVE STRENGTH; W/C RATIO, 0.44 MAXIMUM (NON-AIR-ENTRAINED), 0.36 MAXIMUM (AIR-ENTRAINED).
B) 3000 PSI, 28-DAY COMPRESSIVE STRENGTH; W/C RATIO, 0.58 MAXIMUM (NON-AIR-ENTRAINED), 0.47 MAXIMUM (AIR-ENTRAINED).

- 19. DATA TO BE SUBMITTED:
A) INTENDED USAGE AND LOCATION FOR EACH TYPE
B) MIX DESIGN FOR EACH TYPE
C) CEMENT CONTENT IN POUNDS-PER-CUBIC YARD
D) COARSE AND FINE AGGREGATE IN POUNDS/CUBIC YARD
E) WATER CEMENT RATIO BY WEIGHT
F) CEMENT TYPE AND MANUFACTURER
G) SLUMP RANGE
H) AIR CONTENT
I) ADMIXTURE TYPE AND MANUFACTURER
J) PERCENT ADMIXTURE BY WEIGHT
K) STRENGTH TEST DATA REQUIRED TO ESTABLISH MIX DESIGN.
L) COMPLETE DETAIL AND PLACING SHOP DRAWINGS FOR ALL REINFORCING STEEL INCLUDING ACCESSORIES THAT HAVE BEEN REVIEWED AND STAMPED BY THE GENERAL CONTRACTOR. INCLUDE ALL REQUIRED DIMENSIONS AND ELEVATIONS (IE. TOP OF CONCRETE)

- 20. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING THE CONSTRUCTION OF FORMWORK, SHORING AND RE-SHORING IN ACCORDANCE WITH ACI 347.
- 21. CONSTRUCTION JOINTS NOT SHOWN ON THE DRAWINGS MUST BE MADE AND LOCATED TO LEAST IMPAIR THE STRENGTH OF THE STRUCTURE.
A) NO HORIZONTAL CONSTRUCTION JOINTS WILL BE PERMITTED IN BEAMS, GIRDERS AND SLABS.
B) LOCATION OF ANY CONSTRUCTION JOINT NOT SHOWN IS SUBJECT TO REVIEW AND ACCEPTANCE BY ENGINEER.
- 22. INTERNAL VIBRATION, PROPERLY APPLIED IS THE REQUIRED METHOD OF CONSOLIDATING PLASTIC CONCRETE.
- 23. PROVIDE 3/4" CHAMFER ON ALL EXPOSED CORNERS OF COLUMNS, BEAMS AND WALLS UNLESS OTHERWISE NOTED ON ARCHITECTURAL DRAWINGS.

- 24. CONTRACTOR SHALL VERIFY LOCATIONS OF ALL OPENINGS, SLEEVES, AND SLAB RECESSES AS REQUIRED BY OTHER TRADES BEFORE CONCRETE IS PLACED. NO SLEEVE, OPENINGS, OR INSERT MAY BE PLACED IN BEAMS, JOISTS, OR COLUMN UNLESS APPROVED BY THE ENGINEER.
- 25. CONTRACTOR SHALL VERIFY EMBEDDED ITEMS INCLUDING, BUT NOT LIMITED TO, ANCHOR BOLTS, BOLT CLUSTERS, WELD PLATES, ETC., BEFORE PLACING CONCRETE. NOTIFY ENGINEER OF ANY CONFLICTS WITH REBAR.
- 26. SEE ARCHITECTURAL DRAWINGS FOR REQUIRED CONCRETE FINISHES.
- 27. SLOPE WALKWAYS TO DRAIN AWAY FROM THE BUILDING.

- 28. BUILDING FLOOR AND SITE SLABS-ON-GRADE SHALL BE 4" MINIMUM THICKNESS, UNLESS NOTED OTHERWISE.
A) REINFORCED WITH 6X6 - W1.4 X W1.4 W.W.F.
B) PLACED ON 10 MIL POLYETHYLENE VAPOR RETARDER. LAP 6" AND TAPE ALL JOINTS.
C) SAW-CUT CONTROL JOINTS @ LESS THAN OR EQUAL TO 15'-0" EACH WAY.
D) PROVIDE HOUSEKEEPING PADS AS REQUIRED.
E) SEE DRAWINGS FOR ANY ADDITIONAL CONDITIONS.
- 29. TESTING
A) A QUALIFIED TESTING LAB SHALL BE RETAINED TO PERFORM QUALITY CONTROL WORK AND ON-SITE TESTING.
B) SLUMP TEST - ASTM 143
C) MOLD AND CURE TEST CYLINDERS (ASTM C-31) AND TEST CYLINDERS FOR STRENGTH (ASTM C39). TAKE ONE TEST - THREE CYLINDERS FOR EACH DAYS POUR OF 100 CUBIC YARDS, OR FRACTION THEREOF. TEST ONE CYLINDER AT 7 DAYS, ONE AT 28 DAYS AND ONE HOLD. TEST CYLINDER SAMPLES SHALL BE TAKEN AT THE POINT OF DISCHARGE WHEN USING A PUMP.
D) ONE COPY OF ALL TEST REPORTS SHALL BE SENT DIRECTLY TO THE OWNER, ENGINEER, ARCHITECT AND GENERAL CONTRACTOR.

- 30. CONTRACTOR SHALL PROVIDE FLATNESS AND LEVELNESS IN CONCRETE SLABS PER ACI 302.1R, FIG. 8.7 MINIMUM REQUIRED "E" NUMBERS FOR TYPE OF SLAB USE. REFER TO ACI 117 FOR FLOOR TOLERANCES.
- 31. REPAIR ANY CRACKS OR DEFECTIVE AREAS THAT WILL RESTORE THE AFFECTED SURFACE OR AREAS TO THEIR FULL DESIGN STRENGTH AND APPEARANCE. CONTACT THE STRUCTURAL ENGINEER FOR ADVICE AND EVALUATION.
- 32. ACCEPTANCE OF THE STRUCTURE WILL BE MADE IN CONFORMANCE WITH ACI 301.
- 33. ALL CAST-IN-PLACE CONCRETE MUST BE MAINTAINED WITH MINIMAL MOISTURE LOSS AT A RELATIVELY CONSTANT TEMPERATURE FOR A MINIMUM OF 7 DAYS FOLLOWING THE PLACING OF THE CONCRETE BY THE USE OF A WATER SPRAY, WATER SATURATED FABRIC, MOISTURE RETAINING MEMBRANE OR LIQUID CURING COMPOUND.

- 34. CURE SLABS-ON-GRADE FOR THE FIRST 72 HOURS BY THE USE OF:
A) FOG SPRAYING
B) PONDING
C) SPRINKLING
D) CONTINUOUSLY WET ABSORPTIVE MATS OR FABRIC
E) CONTINUE CURING BY USE OF MOISTURE RETAINING COVER UNTIL CONCRETE HAS OBTAINED ITS SPECIFIED 28 DAY COMPRESSIVE STRENGTH.
F) OR LIQUID CURING COMPOUND AFTER FINISHING PROCESS IS COMPLETED.
G) CONCRETE WET CURE TIME TO BE 7 DAYS MINIMUM AT 50 DEGREES MINIMUM TEMPERATURE.

- 35. SUBMIT MATERIALS AND METHOD OF CURING FOR REVIEW.
- 36. DO NOT USE MOISTURE RETAINING CURING COMPOUNDS FOR CURING SURFACES TO RECEIVE CARPET, FLEXIBLE FLOORING, CERAMIC TILED FLOORS OR OTHER SPECIFIED FLOOR SYSTEMS, UNLESS IT HAS BEEN DEMONSTRATED THAT SUCH COMPOUNDS WILL NOT PREVENT BOND.
- 37. DO NOT PERMIT CONCRETE NOT FULLY CURED TO BE EXPOSED TO EXCESSIVE TEMPERATURE CHANGES OR HIGH WINDS.
- 38. POUR ALL GROUND SLABS ON 10 MIL MINIMUM VAPOR RETARDER IN COMPLIANCE WITH ASTM E1745, LAPPED 6" MINIMUM AND FULLY TAPED.

- 39. EQUIPMENT MADE OF ALUMINUM OR ALUMINUM ALLOYS, SHALL NOT BE USED FOR PUMP LINES, TREMIES, OR CHUTES OTHER THAN SHORT CHUTES SUCH AS THOSE USED TO CONVEY CONCRETE FROM A TRUCK MIXER.
- 40. THE CODE PROHIBITS THE USE OF ALUMINUM (CONDUIT, PIPES, ETC.) IN STRUCTURAL CONCRETE UNLESS IT IS EFFECTIVELY COATED OR COVERED.

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SPRAB
BIDS
PERMIT 6/29/2015
CONSTRUCTION
SEAL

PROJECT TITLE
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Rebatio

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REVISIONS
REVISION 08-21-15

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STRUCTURAL SPECIFICATIONS
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STRUCTURAL SPECIFICATIONS (CONTINUED)

PRECAST CONCRETE U-LINTELS AND SILLS

1. UNITS SHALL BE FABRICATED BY A FIRM ENGAGED IN THE MANUFACTURING OF PRECAST AND PRE-STRESSED CONCRETE U-LINTELS AND SILLS FOR A MINIMUM OF 5 YEARS. FABRICATOR SHALL HAVE A QUALITY ASSURANCE PROGRAM THAT COMPLIES WITH THE PROCEDURES OF MANUAL 116 BY THE PRECAST/PRE-STRESSED CONCRETE INSTITUTE (PCI).
2. PLANT RECORDS OF PRODUCTION AND QUALITY CONTROL SHALL BE KEPT IN ACCORDANCE WITH PCI RECOMMENDATIONS AND MADE AVAILABLE UPON REQUEST FOR THE ARCHITECT/ENGINEER.
3. CODES AND STANDARDS:
 - A) AMERICAN SOCIETY FOR TESTING AND MATERIALS(ASTM)
 - 1) C33 – SPECIFICATION FOR CONCRETE AGGREGATES
 - 2) C150 – SPECIFICATION FOR PORTLAND CEMENT
 - B) PRECAST/PRE-STRESSED CONCRETE INSTITUTE (PCI) STANDARDS: MANUAL FOR QUALITY CONTROL FOR PRECAST AND PRE-STRESSED CONCRETE MNL-116.
 - C) AMERICAN CONCRETE INSTITUTE: BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE (ACI 318)
 - D) AMERICAN CONCRETE INSTITUTE: BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES (ACI 530)
4. CONCRETE MATERIALS:
 - A) PORTLAND CEMENT: ASTM C150 TYPE I OR III, GRAY COLOR
 - B) AGGREGATES: ASTM C33
 - C) WATER: POTABLE
 - D) ADMIXTURES: SHALL NOT CONTAIN CALCIUM CHLORIDE OR CHLORIDE IONS
5. REINFORCING
 - A) DEFORMED REINFORCEMENT: ASTM A615 GRADE 40 OR 60.
 - B) PRE-STRESSING STRAND: ASTM A416 270 KSI LL.

6. U-LINTEL UNITS 14 FEET IN OVERALL LENGTH AND SHORTER SHALL BE MADE OF CONCRETE WITH A MINIMUM STRENGTH OF 3500 PSI AT 28 DAYS.
7. SILL UNITS SHALL BE MADE OF CONCRETE WITH A MINIMUM STRENGTH OF 3000 PSI AT 28 DAYS. SEE ARCHITECTURAL DETAILS.
8. UNITS SHALL BE SAND BLOCK FINISH EXCEPT PRE-STRESSED, 6" WIDE, AND 12" WIDE U-LINTELS SHALL BE SMOOTH FORM FINISHED.
9. PRECAST CONCRETE U-LINTELS SHALL BE DESIGNED BY A LICENSED DELEGATED ENGINEER.

MASONRY

1. HOLLOW LOAD BEARING UNITS SHALL CONFORM TO ASTM C90, NORMAL WEIGHT, TYPE II. MINIMUM NET COMPRESSIVE UNIT STRENGTH = 2000 PSI. (NET AREA COMPRESSIVE MASONRY STRENGTH F_m = 1500 PSI).
2. MORTAR SHALL BE TYPE S AND CONFORM TO ASTM C270 (PROPORTION OR PROPERTY SPECIFICATION) WITH A MINIMUM AVERAGE COMPRESSIVE STRENGTH AT 28 DAYS OF 1800 PSI.
3. COARSE GROUT SHALL CONFORM TO ASTM C476:
 - A) 2500 PSI AT 28 DAYS.
 - B) 1/4" MAXIMUM AGGREGATE.
 - C) 8" – 11" SLUMP.
4. CODES AND STANDARDS:
 - A) SPECIFICATIONS FOR MASONRY STRUCTURES – ACI 530.1/ASCE 6/ TMS 602 IS INCLUDED BY REFERENCE IN ITS ENTIRETY.
 - B) BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES – ACI 530/ ASCE 5/TMS 402.
5. A REINFORCED CONCRETE TIE BEAM SHALL BE PROVIDED IN ALL WALLS SHOWN ON THE STRUCTURAL DRAWINGS AT EACH FLOOR, THE ROOF, AND AT TOP OF ANY PARAPET WALL. USE GALVANIZED MESH-TYPE CELL CAPS. PROVIDE CORNER BARS AT ALL BEAM CORNERS TO MATCH HORIZONTAL BARS.
6. UNLESS NOTED OTHERWISE, TIE BEAMS SHALL BE AS FOLLOWS:
 - A) FLOOR LEVELS: 8 X 16 4000 PSI WITH (2) #5 TOP & BOTTOM, #3 STIRRUPS 24" ON CENTER.
7. VERTICAL BARS SHALL BE HELD IN POSITION AT THE TOP AND BOTTOM OF BAR AND AT 8"-0" O.C. MAXIMUM WITH A MINIMUM CLEARANCE OF 1/2" FROM MASONRY. THE CLEAR DISTANCE BETWEEN BARS SHALL NOT EXCEED ONE BAR DIAMETER, OR MORE THAN 1". CENTER BARS IN WALLS U.N.O.
8. VERTICAL REINFORCING SHALL BE AS SHOWN ON THE DRAWINGS. FILLCELLS WITH COARSE GROUT AS SPECIFIED. PROVIDE ACI 90 DEGREE STANDARD HOOKS INTO FOOTING AND ROOF TIE BEAM. LAP SPLICE VERTICAL REINFORCEMENT ABOVE FOOTING AND ABOVE EACH FLOOR LEVEL UNLESS NOTED OTHERWISE. MAINTAIN VERTICAL REINFORCING SHOWN ON PLANS ABOVE AND BELOW MASONRY OPENINGS. CONTINUE FOUNDATION DOWELS BELOW ALL MASONRY OPENINGS.
9. REINFORCED FILL CELLS ARE TO BE CLEAN AND FREE OF ANY FOREIGN MATERIAL OR DEBRIS. REMOVE ANY INSULATING MATERIAL FROM CELLS, INCLUDING POLYSTYRENE INSULATING INSERTS, PRIOR TO GROUT POUR.
10. REINFORCING BARS SHALL BE STRAIGHT EXCEPT FOR BENDS AROUND CORNERS AND WHERE BENDS OR HOOKS ARE DETAILED ON THE PLANS.
11. REINFORCING BARS SHALL BE LAPPED PER MASONRY LAP SCHEDULE MINIMUM (UNLESS OTHERWISE NOTED) WHERE SPLICED AND SHALL BE WIRED TOGETHER.

12. WHEN A FOUNDATION DOWEL DOES NOT LINE UP WITH A VERTICAL CORE, IT SHALL NOT BE SLOPED MORE THAN ONE HORIZONTAL IN SIX VERTICALS. DOWELS SHALL BE GROUTED INTO A CORE IN VERTICAL ALIGNMENT, EVEN THOUGH IT IS IN AN ADJACENT CELL TO THE VERTICAL WALL REINFORCEMENT.
13. PROVIDE HORIZONTAL WALL REINFORCING (9 GA.) HOT DIPPED GALVANIZED LADDER TYPE DUR-O-WALL (OR EQUIVALENT) AT 16" O.C. JOINT REINFORCING SHALL CONFORM TO ASTM A-951.

14. PROVIDE HORIZONTAL JOINT REINFORCEMENT AT DOORS AND WINDOWS FOR FIRST AND SECOND BLOCK COURSE ABOVE AND BELOW APERTURES. RUN REINFORCING CONTINUOUS OR EXTEND TWO FEET FROM APERTURE EDGE.
15. WIRE REINFORCEMENT SHALL BE LAPPED AT LEAST 6" AT SPLICES AND SHALL CONTAIN AT LEAST ONE CROSS WIRE OF EACH PIECE OF REINFORCEMENT IN THE LAPPED DISTANCE.
16. CLEANOUTS SHALL BE PROVIDED IN THE BOTTOM COURSE OF MASONRY IN EACH GROUT POUR WHEN THE POUR HEIGHT EXCEEDS 5'. CLEANOUTS TO BE SAW-CUT 4" X 4".
17. GROUT POUR HEIGHT SHALL NOT EXCEED 14'. PLACE GROUT IN 7" MAX. LIFTS HEIGHTS.
18. CONSOLIDATE GROUT POURS AT THE TIME OF PLACEMENT BY MECHANICAL MEANS AND RECONSOLIDATE AFTER INITIAL WATER LOSS AND SETTLEMENT.
19. ALL MASONRY FOUNDATION STEMWALLS AND RETAINING WALLS SHALL BE FULLY GROUTED.
20. STORE BLOCKS ON PALLETS AND COVER WITH PLASTIC SHEETING.
21. PLACE MASONRY IN RUNNING BOND WITH 3/8" MORTAR JOINTS. PROVIDE COMPLETE COVERAGE FACE SHELL MORTAR BEDDING, HORIZONTAL AND VERTICAL. FULLY MORTAR WEBS IN ALL COURSES OF PIERS, COLUMNS, AND PILASTERS AND ADJACENT TO GROUTED CELLS.
22. PROVIDE 8" DEEP PRECAST REINFORCED CONCRETE LINTELS OVER ALL MASONRY OPENINGS NOT SHOWN TO HAVE A STRUCTURAL BEAM. MINIMUM END BEARING = 8". LINTEL WIDTH TO MATCH MASONRY WIDTH.
23. TOPS OF PARTIALLY CONSTRUCTED WALLS SHALL BE COVERED WITH VISQUEEN WHENEVER RAIN OCCURS AND AT THE END OF THE WORK DAY.

STRUCTURAL STEEL

1. STRUCTURAL STEEL SHALL CONFORM TO THE AISC "SPECIFICATION FOR BUILDINGS", LATEST EDITION.
2. WELDED CONNECTIONS SHALL CONFORM TO THE LATEST REVISED CODE OF THE AMERICAN WELDING SOCIETY, AWS D1.1. ALL WELDING SHALL BE PERFORMED USING E70XX, LOW HYDROGEN ELECTRODES. ELECTRODES ARE TO BE PROTECTED FROM MOISTURE.
3. CONNECTIONS TO BE DOUBLE ANGLE FRAMED BEAM CONNECTION PER AISC UNLESS NOTED OTHERWISE. ALL BOLTS TO BE 3/4" DIAMETER UNLESS NOTED OTHERWISE. SHOP CONNECTIONS MAY BE WELDED OR BOLTED. WELDS ARE TO BE EQUAL IN STRENGTH TO BOLTS. ALL FIELD CONNECTIONS ARE TO BE BOLTED WITH ASTM A325N OR A490 BOLTS (BEARING TYPE BOLTS WITH THREADS IN THE SHEAR PLANE) INCLUDING SUITABLE NUTS AND PLAIN HARDENED WASHERS. ALL BOLTS SHALL BE TIGHTENED SNUG TIGHT UNLESS OTHERWISE NOTED. DESIGN CONNECTIONS FOR THE LARGER OF EITHER THE SHEAR SHOWN ON THE DRAWINGS, (INDICATED AS "V = K" AT ENDS OF MEMBER) OR 55% OF THE MAXIMUM LOAD(N KIPS) LISTED IN THE TABLES FOR "MINIMUM TOTAL FACTORED UNIFORM LOADS IN KIPS FOR BRACED, SIMPLE SPAN BEAMS BENT ABOUT THE STRONG AXIS" OF THE LATEST EDITION OF THE AISC "MANUAL OF STEEL CONSTRUCTION".
4. SIZE AND USE OF HOLES: SEE AISC TABLE J3.3.
 - A) LARGER HOLES ARE PERMITTED IN STANDARD COLUMN BASE PLATES. MAXIMUM HOLE DIAMETER = BOLT DIAMETER + 3/8". HARDENED WASHERS, TO COVER THE LARGER HOLE, SHALL BE PROVIDED.
 - B) LARGER HOLES ARE NOT PERMITTED IN WIND FRAME COLUMN BASE PLATES. MAXIMUM HOLE DIAMETER = BOLT DIAMETER + 1/16".
 - C) SLOTTED HOLES: A PLATE WASHERS OR A CONTINUOUS BAR WITH STANDARD HOLES, HAVING A SIZE SUFFICIENT TO COMPLETELY COVER THE SLOT AFTER INSTALLATION, AND A MIN. OF 5/16" THICK SHALL BE PROVIDED. TACK WELD NUT TO BOLT AFTER ERECTION.
5. STEEL BEAMS SHALL BE FABRICATED WITH THE NATURAL CAMBER (WITHIN THE MILL TOLERANCE) LOCATED ABOVE THE HORIZONTAL CENTERLINE BETWEEN THE END CONNECTIONS.
6. VERIFY THE EXACT SIZE AND LOCATION OF ALL FLOOR AND ROOF OPENINGS FOR MECHANICAL EQUIPMENT WITH THE MECHANICAL CONTRACTOR PRIOR TO FABRICATION OF MATERIALS.
7. SHOP PRIME STEEL SURFACES EXCEPT THE FOLLOWING:
 - A) SURFACES EMBEDDED IN CONCRETE OR MORTAR. EXTEND PRIMING OF PARTIALLY EMBEDDED MEMBERS TO A DEPTH OF 2 INCHES.
 - B) SURFACES TO BE FIELD WELDED.
 - C) SURFACES TO BE HIGH-STRENGTH BOLTED WITH SLIP-CRITICAL CONNECTIONS.
 - D) SURFACES TO RECEIVE SPRAYED FIRE-RESISTIVE MATERIALS.
 - E) GALVANIZED SURFACES.
8. SURFACE PREPARATION: CLEAN SURFACES TO BE PAINTED. REMOVE LOOSE RUST AND MILL SCALE AND SPATTER, SLAG, OR FLUX DEPOSITS. PREPARE SURFACES ACCORDING TO THE FOLLOWING SPECIFICATIONS AND STANDARDS.
9. PRIMING: IMMEDIATELY AFTER SURFACE PREPARATION, APPLY PRIMER ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS AND AT RATE RECOMMENDED BY SSPC TO PROVIDE A DRY FILM THICKNESS OF NOT LESS THAN 1.5 MILS. USE PRIMING METHODS THAT RESULT IN FULL COVERAGE OF JOINTS, CORNERS, EDGES, AND EXPOSED SURFACES.
 - A) STRIPE PAINT CORNERS, CREVICES, BOLTS, WELDS, AND SHARP EDGES.
 - B) APPLY TWO COATS OF SHOP PAINT TO INACCESSIBLE SURFACES AFTER ASSEMBLY OR ERECTION. CHANGE COLOR OF SECOND COAT TO DISTINGUISH IT FROM FIRST.
10. PRIME AND PAINT ALL FIELD WELDS AFTER INSPECTION.
11. A QUALIFIED TESTING LABORATORY SHALL BE RETAINED TO PERFORM THE FOLLOWING TESTS.
 - A) VISUALLY INSPECT ALL STEEL MEMBERS AND CONNECTIONS.
12. ONE COPY OF ALL TEST REPORTS SHALL BE SENT DIRECTLY TO OWNER, ARCHITECT, STRUCTURAL ENGINEER, AND GENERAL CONTRACTOR.
13. STEEL SHALL CONFORM TO:

WIDE FLANGE (WF)(WT)-----ASTM A992 (50 KSI)
 SHAPES (L, C, MC)-----ASTM A36
 HOLLOW STRUCTURAL SECTIONS (HSS)---ASTM A500 GRADE B
 (RECTANGULAR 46 KSI; ROUND 42 KSI)
 ANCHOR BOLTS-----ASTM A307
 FRAMING BOLTS-----ASTM A325N OR A490N
 WELDING ELECTRODES-----E70XX

14. FASTENERS AND MATERIALS USED FOR WELDING OR OTHERWISE SECURING COMPONENTS ONE TO ANOTHER SHALL BE OF DOMESTIC (USA MADE) MANUFACTURE. SIMILARLY, ALL MATERIALS USED IN THE MANUFACTURING PROCESS SHALL BE FROM A DOMESTIC SOURCE.
15. OPENINGS THROUGH STEEL BEAMS SHALL BE PROVIDED AS DETAILED ON THE DRAWINGS. ALL SUCH OPENINGS SHALL BE MACHINE CUT IN THE SHOP. ALL RECTANGULAR OPENINGS SHALL HAVE A CORNER RADIUS OF 2 TIMES THE WEB THICKNESS, 1/2" MINIMUM.
16. SHOP AND FIELD WELDS SHALL BE DONE BY A.W.S. CERTIFIED WELDERS. PROVIDE CURRENT CERTIFICATES UPON REQUEST.
17. NO SPLICES SHALL BE PERMITTED IN ANY STRUCTURAL STEEL MEMBER UNLESS SHOWN ON APPROVED SHOP DRAWINGS.
18. STEEL STAIRS AND/OR LADDERS SHALL BE DESIGNED FOR 100 PSF LIVE LOAD BY A LICENSED DELEGATED ENGINEER, WHO SHALL SUBMIT SIGNED AND SEALED SHOP DRAWINGS. SHOP DRAWINGS SHALL SPECIFY ALL DESIGN LOADS.
19. SUBMITTALS: CONTRACTOR SHALL SUBMIT DETAILED SHOP DRAWINGS SHOWING ALL STRUCTURAL STEEL LAYOUTS AND DETAILS, SIZES OF MEMBERS, TYPE OF STEEL, CONNECTION DETAILS, WELDS, BOLTS, ETC., AS REQUIRED TO FABRICATE AND ERECT ALL STRUCTURAL STEEL FRAMING. ALL CONNECTIONS NOT SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE DESIGNED BY THE DETAILER AND SUBMITTED ON SHOP DRAWINGS, SIGNED AND SEALED BY A REGISTERED FLORIDA DELEGATED ENGINEER.
20. NON-SHRINK GROUT SHALL BE: NONMETALLIC SHRINKAGE-RESISTANT GROUT, PREMIXED, NON-CORROSIVE, NON-STAINING PRODUCT CONTAINING SELECTED SILICA SANDS, PORTLAND CEMENT, SHRINKAGE COMPENSATING AGENTS, PLASTICIZING AND WATER-REDUCING AGENTS, COMPLYING WITH CRD-C621, CORPS OF ENGINEERS.
21. IF NOT SPECIFIED ON THE DRAWINGS, THE THROAT SIZE OF ANY FILLET WELD SHALL BE EQUAL TO 1/16" LESS THAN THE THINNEST CONNECTION COMPONENT.
22. NO FIELD WELDING OF GALVANIZED MEMBERS IS PERMITTED.
23. MINIMUM EMBEDMENT DEPTH OF ANCHOR BOLTS:
 - A) BEAMS, COLUMNS, WALLS = 6"
 - B) FOOTINGS = 3" FROM BOTTOM
24. ERECTION
 - A) BEFORE ERECTION, THE CONTRACTOR IS TO REMOVE ALL MUD, DIRT OR OTHER FOREIGN MATTER, WHICH ACCUMULATES DURING HANDLING AND STORAGE.
 - B) DRIFTING TO ENLARGE UNFAIR HOLES WILL NOT BE PERMITTED. DRILL SUCH HOLES TO ACCOMMODATE THE NEXT LARGER SIZE FASTENER, WHERE POSSIBLE.
 - C) AFTER ERECTION, CLEAN FIELD WELDS, BOLTED CONNECTIONS, AND ABRADED AREAS WHERE SHOP COAT HAS BEEN DAMAGED. SPOT AND PRIME AREAS USING SAME MATERIAL AS SHOP COAT.
 - D) SET ALL MEMBERS SO THAT, IN THEIR FINAL LOCATION, LEVEL, PLUMBNESS AND ALIGNMENT ARE WITHIN THE TOLERANCES PRESCRIBED BY AISC CODE.
 - E) DOUBLE CONNECTIONS THROUGH COLUMN WEBS OR AT BEAMS THAT FRAME OVER THE TOPS OF COLUMNS MUST BE DESIGNED TO HAVE AT LEAST ONE INSTALLED BOLT REMAIN IN PLACE TO SUPPORT THE FIRST BEAM WHILE THE SECOND BEAM IS BEING ERECTED. ALTERNATIVELY, THE FABRICATOR MUST SUPPLY A SEAT OR EQUIVALENT DEVICE WITH A MEANS OF POSITIVE ATTACHMENT TO SUPPORT THE FIRST BEAM WHILE THE SECOND BEAM IS BEING ERECTED.

OPEN WEB STEEL JOISTS AND JOIST GIRDERS (NOTED "JOISTS" HEREIN)

1. STEEL JOIST MANUFACTURER SHALL BE A MEMBER OF THE STEEL JOIST INSTITUTE.
2. STEEL JOISTS SHALL CONFORM TO THE REQUIREMENTS OF THE LATEST EDITION OF THE AISC STANDARD SPECIFICATIONS FOR OPEN WEB STEEL JOISTS K, LH, OR DLH SERIES (SEE PLAN), AND OSHA STEEL ERECTION STANDARD.
3. JOISTS AND ALL ACCESSORIES SHALL BE DESIGNED BY A LICENSED DELEGATED ENGINEER WHO SHALL PREPARE DESIGN CALCULATIONS AND SUPERVISE THE PREPARATION OF SHOP DRAWINGS.
4. VERIFY THE EXACT LOCATION AND WEIGHT OF ALL MECHANICAL EQUIPMENT WITH THE MECHANICAL CONTRACTOR PRIOR TO FABRICATION OF JOISTS.
5. ALL HANGERS TO SUPPORT MECHANICAL EQUIPMENT, ETC., TO BE SUPPORTED BY THE TOP OR BOTTOM CHORD OF JOISTS SHALL BE LOCATED AT THE PANEL POINT OF THE JOIST. IF HANGERS MUST BE LOCATED IN BETWEEN PANEL POINTS, PROVIDE JOIST STIFFENER AS INDICATED IN DETAILS. ALL HANGERS TO BE LOCATED AT THE CENTERLINE OF THE BOTTOM CHORD MEMBER.
6. NO MODIFICATION THAT AFFECTS THE STRENGTH OF A STEEL JOIST SHALL BE MADE WITHOUT THE APPROVAL OF THE DELEGATED ENGINEER.
7. DELEGATED ENGINEER SHALL DESIGN JOISTS AND BRIDGING FOR GRAVITY LOADS AND WIND LOAD UPLIFT PRESSURES INDICATED ON THE DRAWINGS.
8. JOIST BRIDGING SHALL BE FURNISHED AND INSTALLED TO MEET THE DESIGN AND SPACING REQUIREMENTS OF THE SJI STANDARD SPECIFICATIONS. ALL BRIDGING AND BRIDGING ANCHORS SHALL BE COMPLETELY INSTALLED BEFORE CONSTRUCTION LOADS ARE PLACED ON THE JOISTS.
9. WHERE COLUMNS ARE NOT FRAMED IN AT LEAST TWO DIRECTIONS WITH SOLID WEB BEAMS, A STEEL JOIST SHALL BE FIELD-BOLTED AT THE COLUMN TO PROVIDE LATERAL STABILITY DURING ERECTION.
10. A 6"x6" MINIMUM VERTICAL STABILIZER PLATE TO RECEIVE THE JOIST BOTTOM CHORD MUST BE PROVIDED AT COLUMNS. THE STABILIZER PLATE MUST HAVE A 13/16 INCH HOLE FOR THE ATTACHMENT OF GUYING OR PLUMBING CABLES.
11. JOISTS AND ACCESSORIES SHALL HAVE ONE SHOP COAT OF PAINT MEETING THE MINIMUM PERFORMANCE REQUIREMENTS OF THE LATEST SJI SPECIFICATIONS. SEE ARCHITECT FOR PREFERRED COLOR.
12. SEE PLAN FOR ANY CONCENTRATED LOADS OR UNUSUAL CONDITIONS. ALL JOISTS SUBJECT TO SPECIAL LOADS OR CONDITIONS SHALL BE CONSIDERED "SPECIAL JOISTS", (SP).
13. CONTRACTOR SHALL SUBMIT DETAILED SHOP DRAWINGS SHOWING JOISTS, BRIDGING, AND ALL CONNECTIONS. SHOP DRAWINGS SHALL BE SIGNED AND SEALED BY THE DELEGATED ENGINEER.
14. THE DELEGATED ENGINEER MUST BE PROVIDED WITH A COPY OF THESE DRAWINGS AND SPECIFICATIONS.

16. PROVIDE ONE ROW UPLIFT BRIDGING AT THE FIRST PANEL POINT FROM EACH SUPPORT.
17. DURING THE CONSTRUCTION PERIOD, THE CONTRACTOR SHALL PROVIDE MEANS FOR ADEQUATE DISTRIBUTION OF CONCENTRATED LOADS SO THAT THE CARRYING CAPACITY OF ANY JOIST IS NOT EXCEEDED.
18. ONE END OF ALL JOISTS SHALL BE ATTACHED TO ITS SUPPORT IN ACCORDANCE WITH SJI SPECIFICATIONS BEFORE ALLOWING THE WEIGHT OF AN ERECTOR ON THE JOISTS.
19. SEE STANDARD JOIST SPECIFICATIONS FOR CAMBER REQUIREMENTS.
20. SUBMIT COMPLETE SHOP DRAWINGS FOR ALL JOISTS AND ACCESSORIES, AND A LETTER, SIGNED AND SEALED BY THE DELEGATED ENGINEER, CONFIRMING COMPLIANCE WITH THE DESIGN CRITERIA AND ALL APPLICABLE CODES.

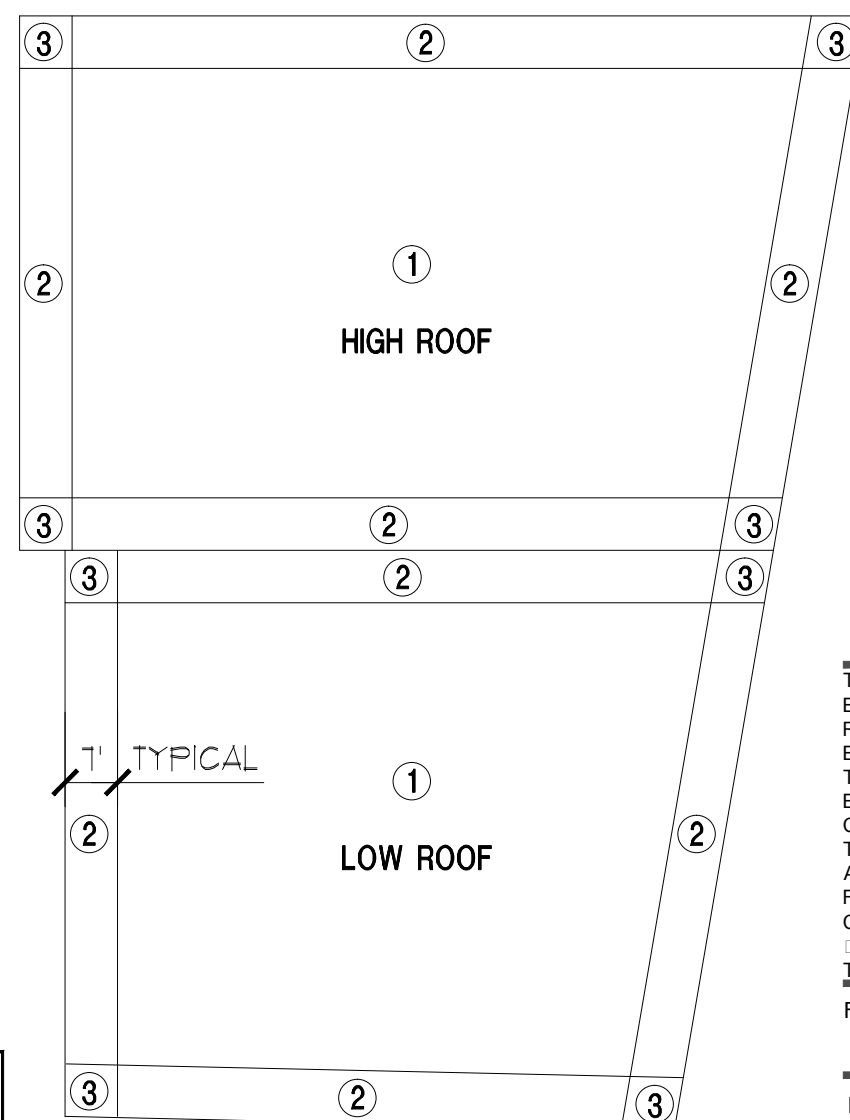
METAL DECKING

1. METAL DECK WORK SHALL CONFORM TO THE REQUIREMENTS OF THE STEEL DECK INSTITUTE.
2. METAL ROOF DECK SHALL BE 1 1/2" DEEP, 22 GA., WIDE RIB TYPE B AND GALVANIZED. (VULCRAFT 1.5B22 OR EQUIVALENT.)
3. FASTEN ROOF DECK WITH 5/8" DIAMETER PUDDLE WELDS AT EACH SUPPORT PER 36" WIDTH AND #10 TEK SCREWS AT MIDSPAN OF SIDELAPS AS INDICATED ON PLANS.
4. METAL FLOOR DECK SHALL BE 9/16" DEEP, 22 GA., GALVANIZED PERMANENT FORM DECK. (VULCRAFT 0.6C22 OR EQUIVALENT.)
5. FASTEN FLOOR DECK TO EACH INTERMEDIATE SUPPORT WITH (2) 5/8" DIAMETER PUDDLE WELDS AND (3) 5/8" DIAMETER PUDDLE WELDS TO EACH END LAP SUPPORT PER 36 INCH WIDTH. SIDELAPS SHALL BE FASTENED WITH #12TEK SCREWS AT 36" ON CENTER MAXIMUM.
6. MINIMUM FASTENING AT BUILDING PERIMETER OF DECK SHALL BE 5/8" DIAMETER PUDDLE WELDS AT 6" O.C.
7. METAL DECK AND SHEET METAL COATING DESIGNATION:
 - A) WITH STRUCTURAL CONCRETE TOPPING – G90
8. INSTALL ALL DECKING 3 SPAN CONTINUOUS.
9. USE WELD WASHERS FOR ALL DECKING 24 GA. AND THINNER.
10. DO NOT HANG OR ATTACH DUCTWORK, CONDUIT, PIPING, EQUIPMENT, CEILINGS, ETC. FROM METAL DECKING.
11. ROOF DECK OPENINGS 12" DIAMETER OR LARGER ARE TO HAVE SUPPORT ANGLES PER TYPICAL DECK OPENING DETAIL, INCLUDING OPENINGS FOR ROOF SUMP PANS.
12. PRIME AND PAINT ALL FIELD WELDS AFTER INSPECTION WITH A GALVANIZED TOUCH-UP PAINT. (SEE NOTE BELOW)
13. SUBMITTALS: CONTRACTOR SHALL SUBMIT DETAILED SHOP DRAWINGS SHOWING LAYOUT OF DECK, TYPE OF DECK, ALL CONNECTIONS INCLUDING END WELDS, SEAM WELDS, INTERMEDIATE WELDS, AND ALL ACCESSORY MATERIAL SUCH AS CLOSURES, SUMPS FOR DRAINS, ETC.
14. A QUALIFIED TESTING LABORATORY SHALL BE RETAINED TO VISUALLY INSPECT ALL DECK WELDS AND FASTENERS.

GROSS WIND LOADS MAIN ROOF NOMINAL - PSF ROOFING MATERIALS			
COMPONENTS AND CLADDING	ROOF ZONE		
	1	2	3
PRESSURE (psf)	18.0	18.0	18.0
SUCTION (psf)	43.7	73.4	110.5

WIND PRESSURES (PSF) EXTERIOR DOORS, WINDOWS, WALLS				
EFFECTIVE AREA (ft²)	ZONE 4		ZONE 5	
	PRESSURE	SUCTION	PRESSURE	SUCTION
1 TO 20	40.0	(-) 43.4	40.0	(-) 53.4
21 TO 50	38.1	(-) 41.4	38.1	(-) 49.3
51 TO 100	35.9	(-) 39.3	35.9	(-) 45.2
101 TO 150	34.2	(-) 37.5	34.2	(-) 41.6
151 TO 250	33.2	(-) 36.4	33.2	(-) 39.5

ZONE 5 IS WITHIN 7 FEET OF ANY CORNER.
ALL OTHER AREAS ARE ZONE 4.



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DRAWING TITLE
STRUCTURAL SPECIFICATIONS AND WIND CHARTS

DATE **6/29/2015** DRAWN BY

JOB NUMBER
100701

DRAWING NUMBER

S0.2



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ISSUED FOR :
SPRAB 3/05/2015

BIDS

PERMIT 6/29/2015

CONSTRUCTION

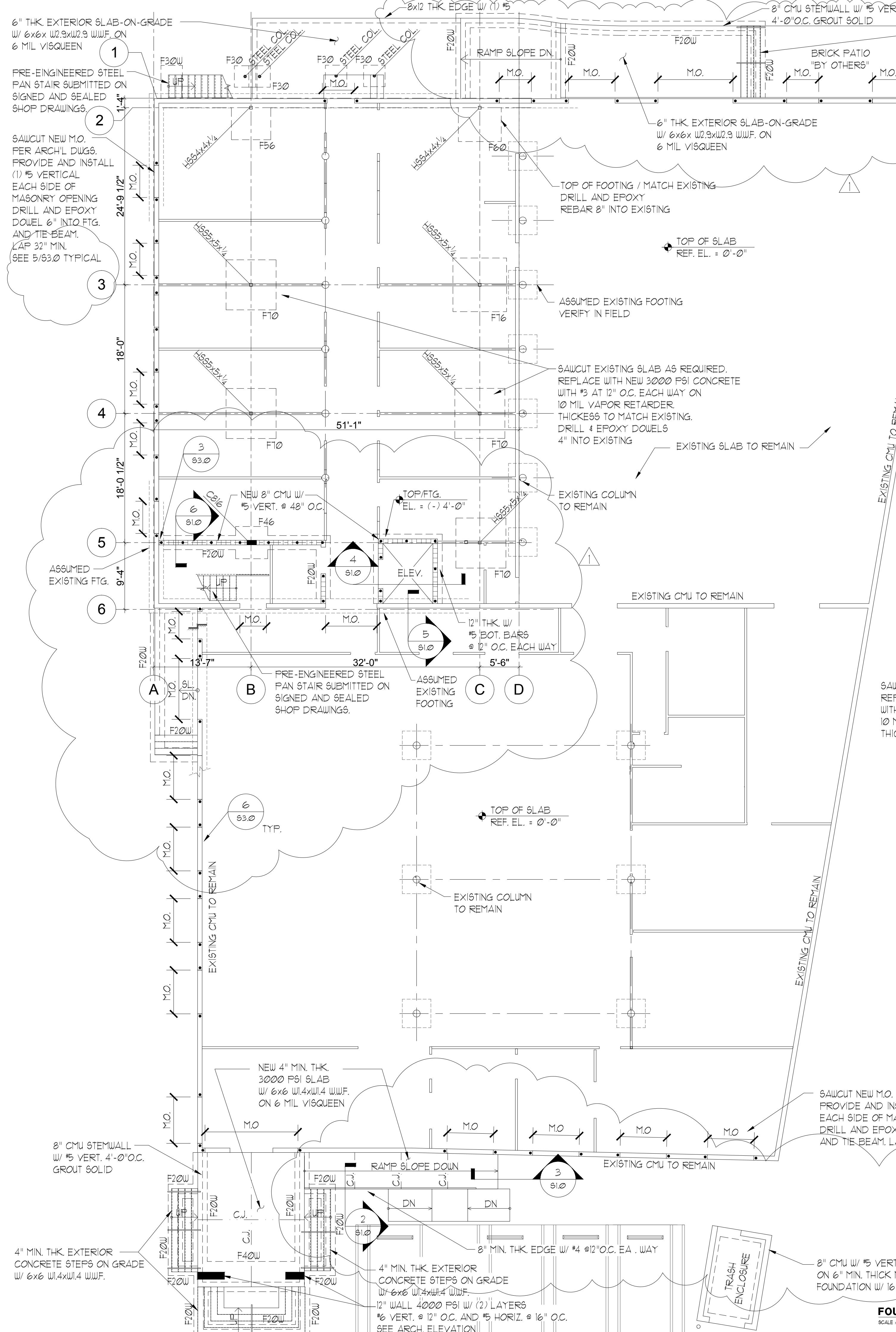
SEAL

PROJECT TITLE

**Art Warehouse
Renovation**

313 NE 3rd Street
Delray Bch., Florida
33444

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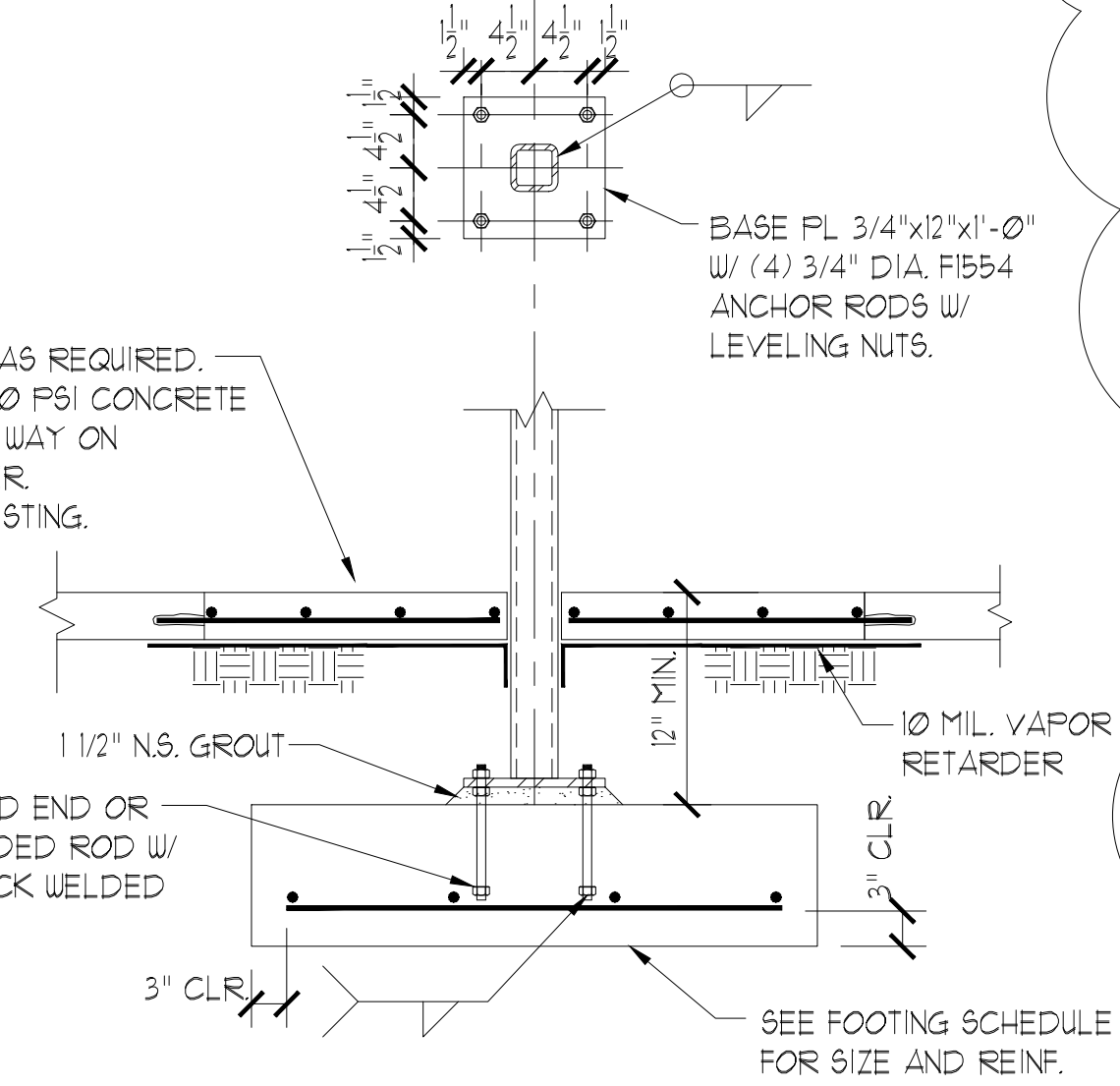
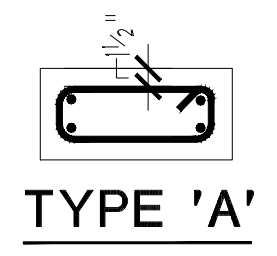


FOOTING SCHEDULE

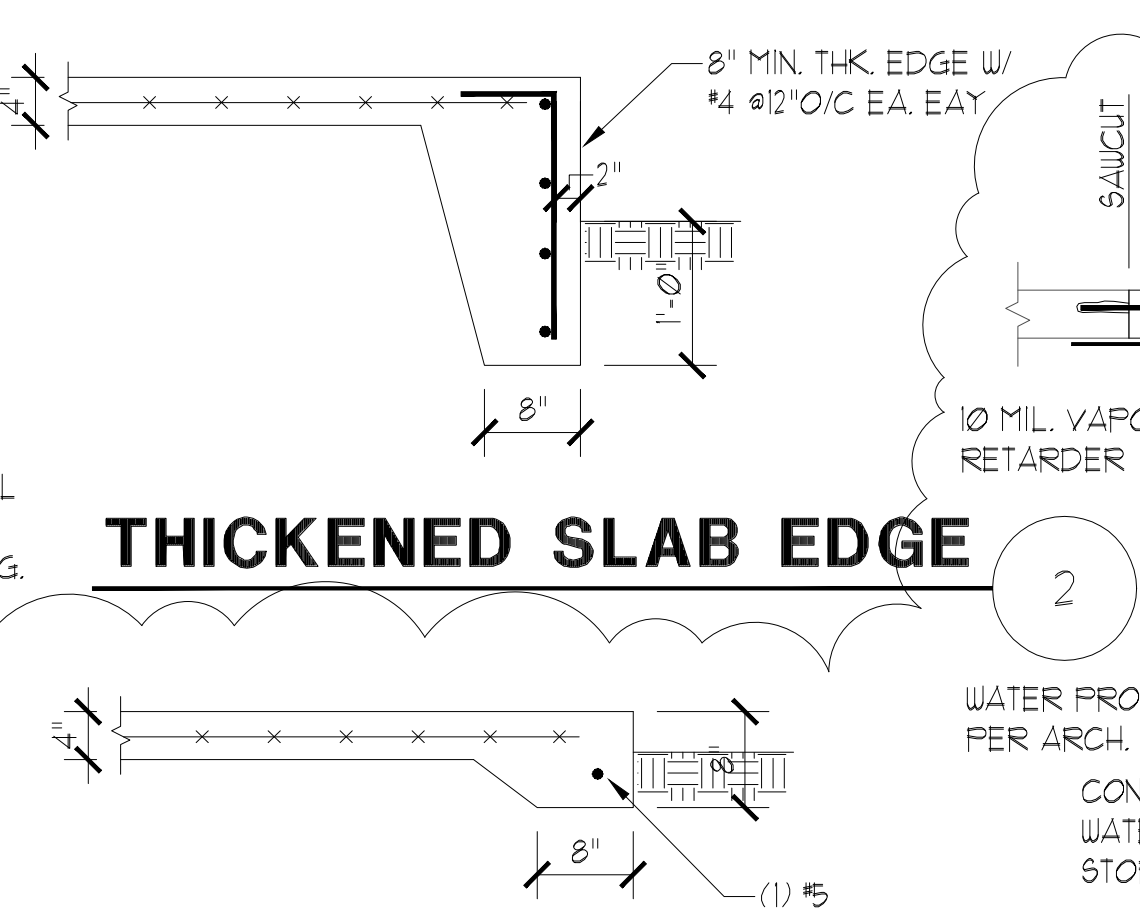
MARK	SIZE	DEPTH	REINF. EA. WAY	REMARKS	DWL/AB. EMBEDMENT
F20W	2'-0"	1'-0"	(3) #5 CONT. #4@24" TRANSV. (4) #5 CONT. #5@12" TRANSV.	WALL FTG.	9"
F30W	3'-0"	1'-0"	(5) #5 CONT. #5@12" TRANSV.	WALL FTG.	9"
F40W	4'-0"	1'-0"	(5) #5 CONT. #5@12" TRANSV.	WALL FTG.	9"
F50	3'-0" x 3'-0"	1'-0"	(3) #5		9"
F36	3'-6" x 3'-6"	1'-0"	(4) #5		9"
F46	4'-6" x 4'-6"	1'-0"	(4) #5		9"
F56	5'-0" x 5'-6"	1'-0"	(5) #5		9"
F60	6'-0" x 6'-0"	1'-2"	(7) #5		11"
F66	6'-6" x 6'-6"	1'-4"	(8) #5		1'-1"
F70	7'-0" x 7'-0"	1'-5"	(6) #6		1'-2"
F76	7'-6" x 7'-6"	1'-6"	(7) #6		1'-3"

CONCRETE COLUMN SCHEDULE

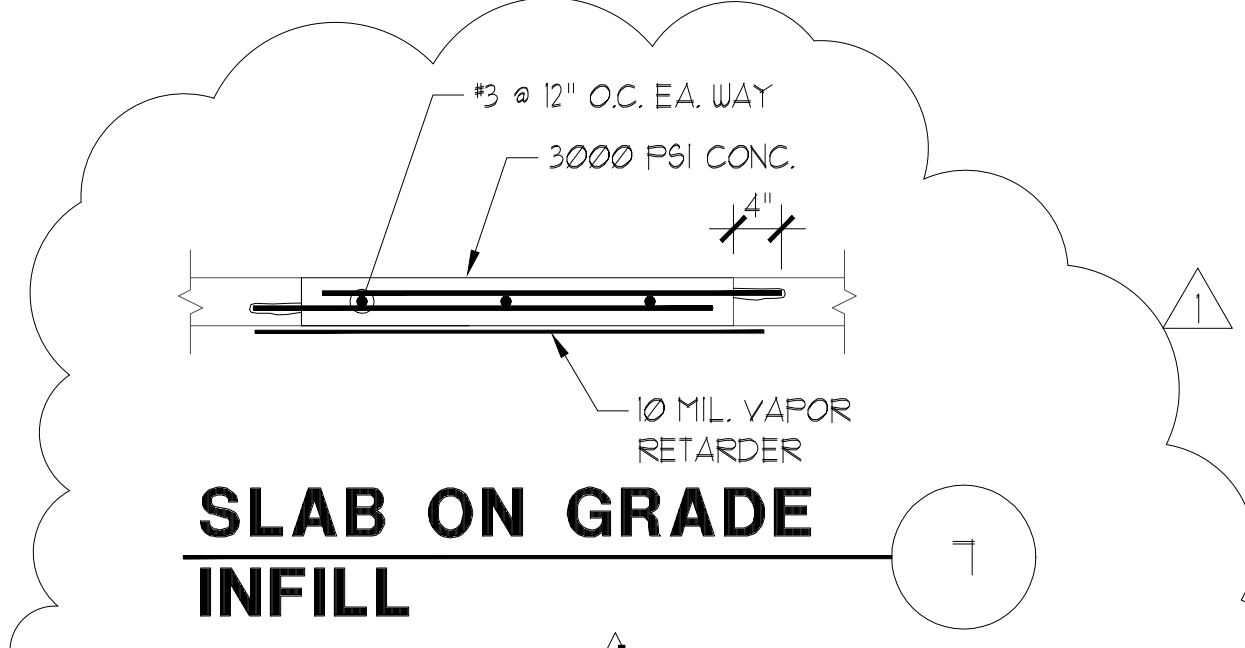
MARK	SIZE	VERT. REINFORCING TIES	REMARKS
C816	8" x 16"	(4) #6 #3 @ 8" O.C.	TYPE A



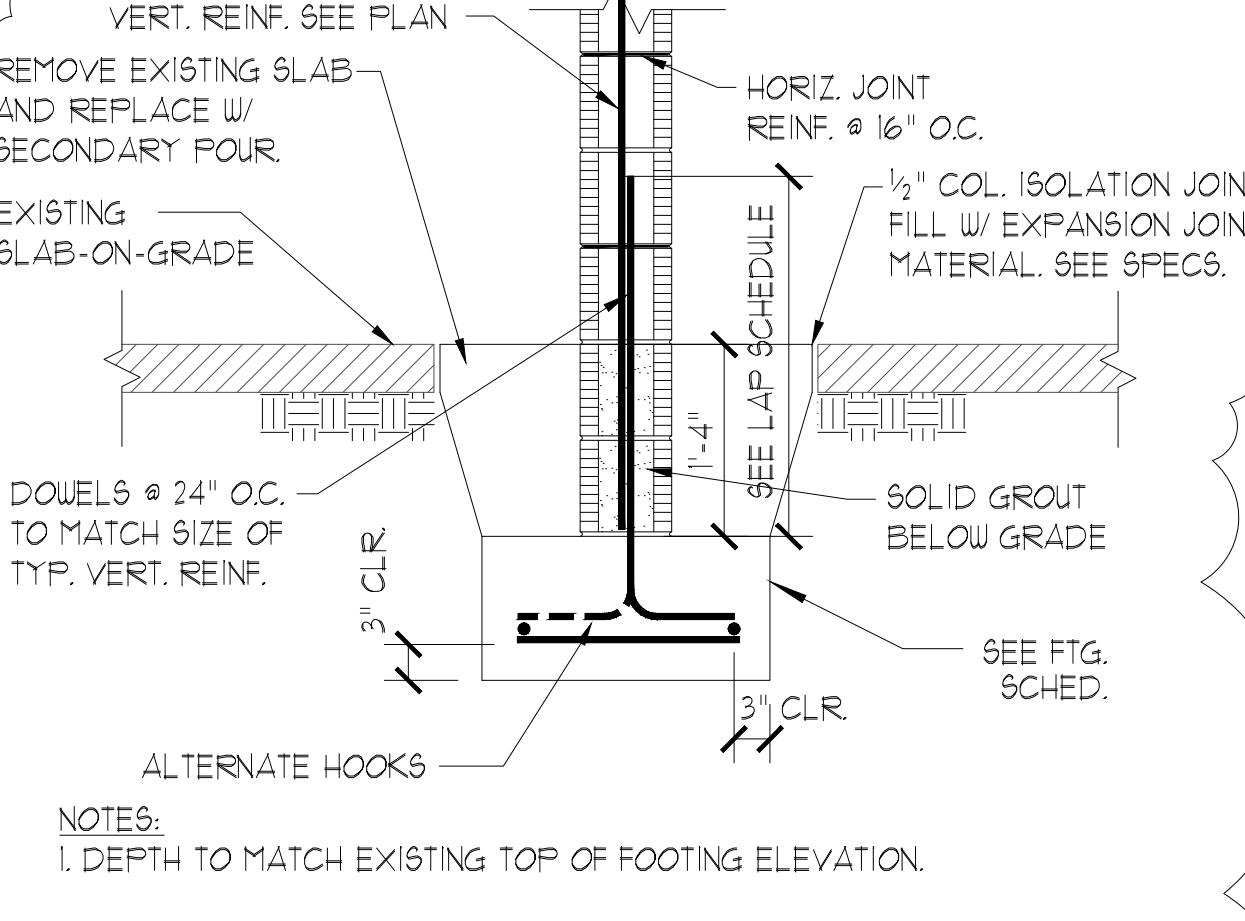
COLUMN FOOTING



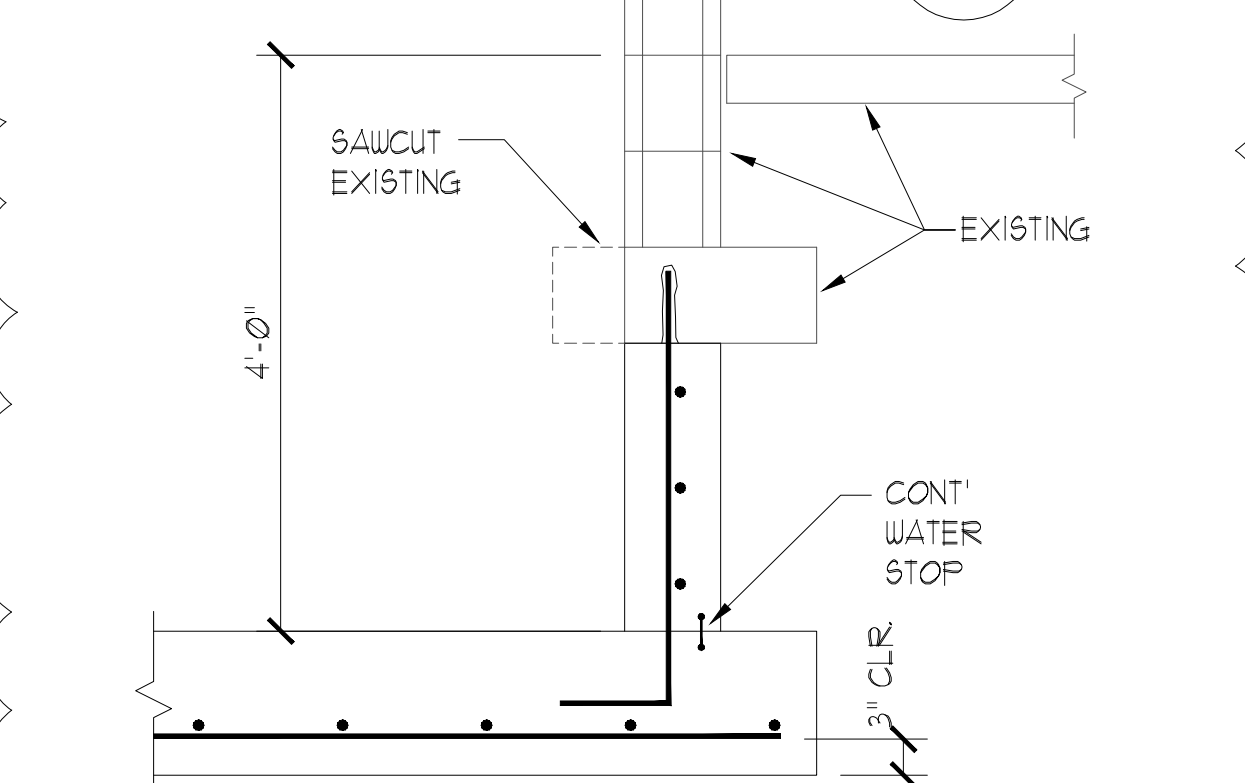
THICKENED SLAB EDGE



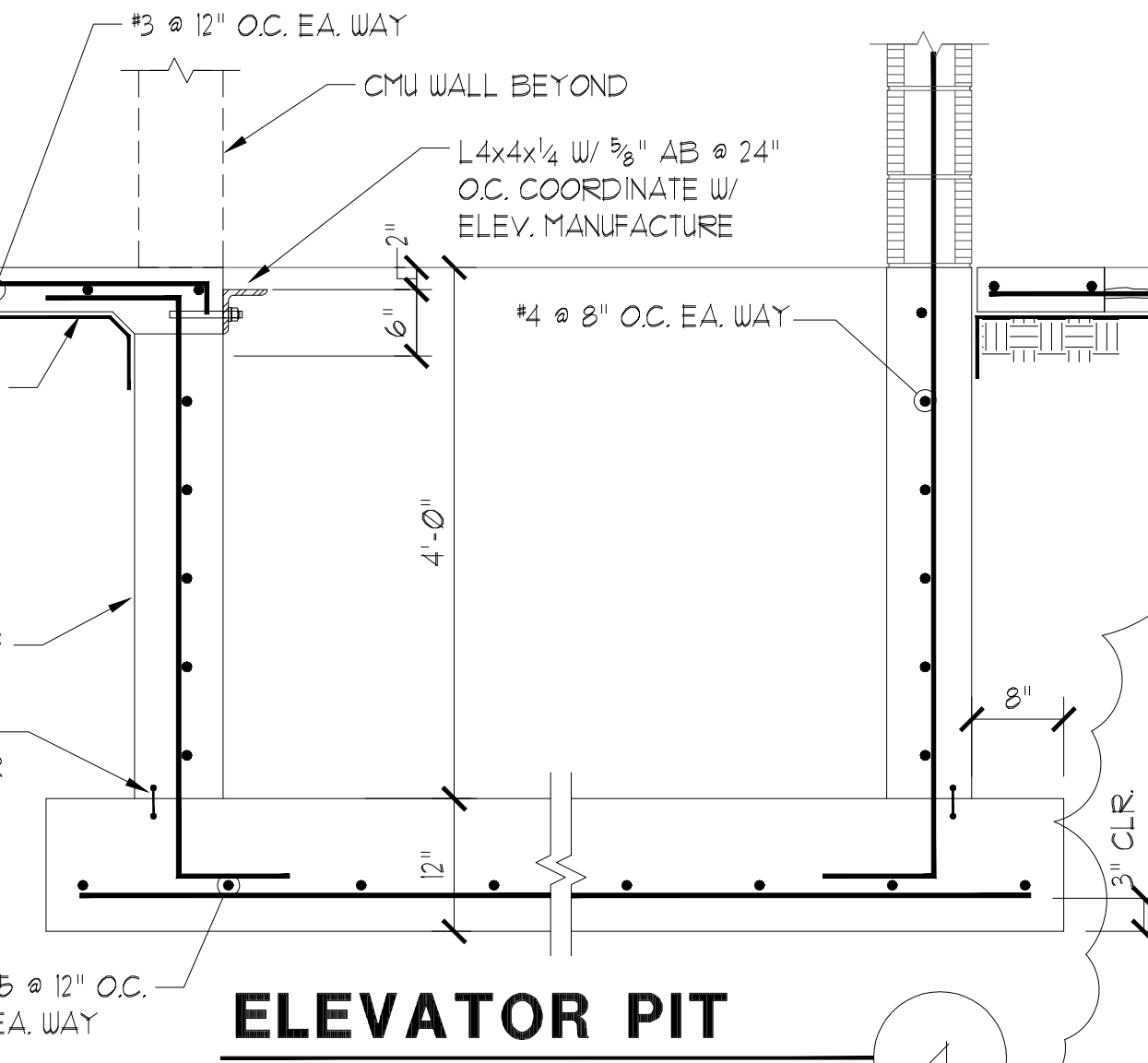
SLAB ON GRADE INFILL



ELEVATOR PIT



ELEVATOR PIT



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ISSUED FOR: SPRAB 3/05/2015
 BIDS
 PERMIT 6/29/2015
 CONSTRUCTION
 SEAL

PROJECT TITLE
Art Warehouse Rehabilitation

313 NE 3rd Street
 Delray Bch., Florida
 33444

REVISIONS
 REVISION 08-21-15

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FILE NUMBER
 DRAWING TITLE
FOUNDATION PLAN
 DATE 6/29/2015 DRAWN BY
 DB NUMBER 100701
 DRAWING NUMBER

PERMIT SET 6/29/2015
S1.0

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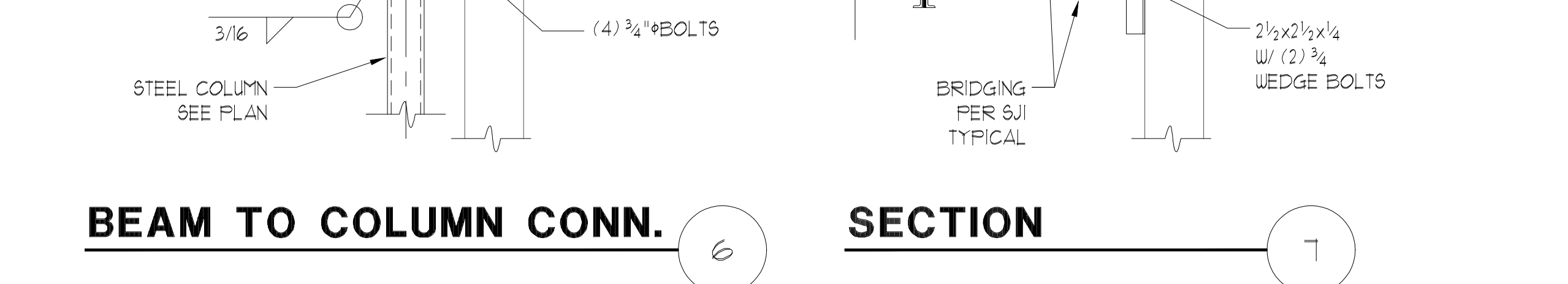
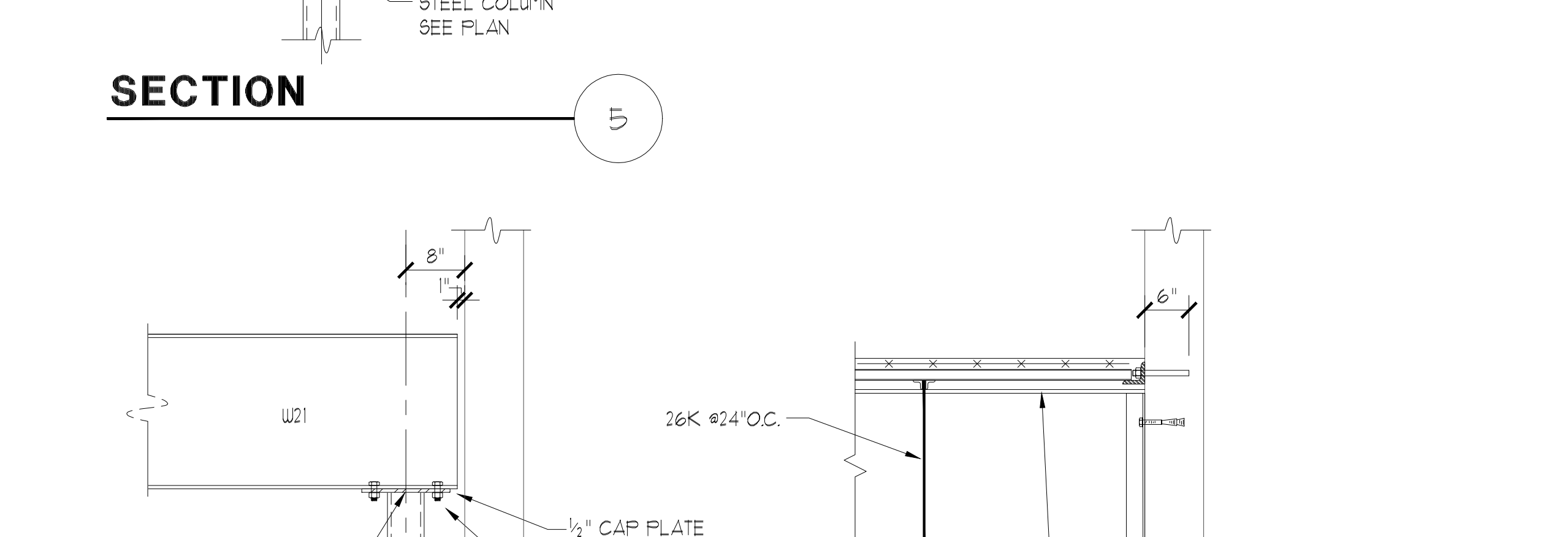
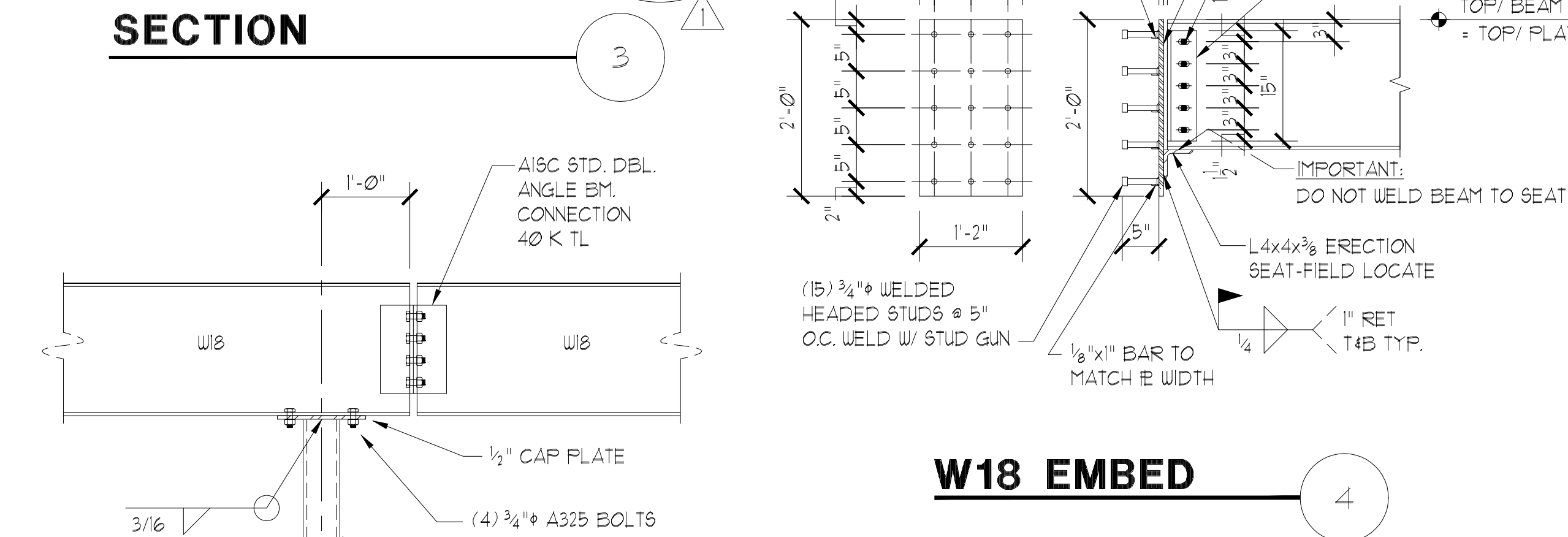
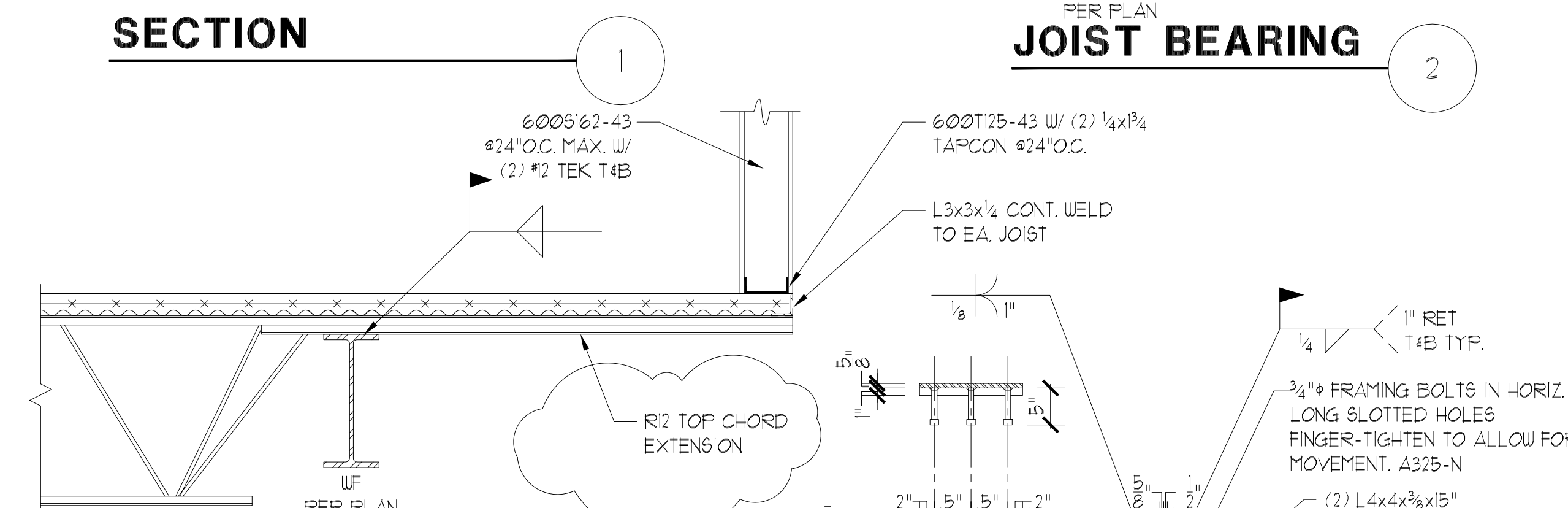
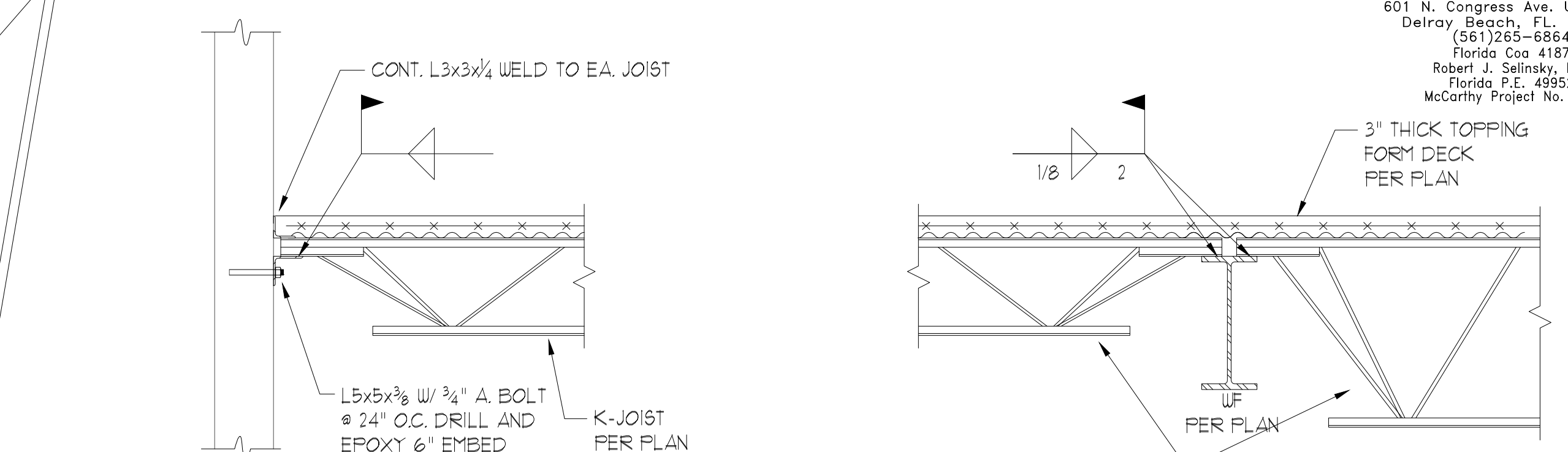
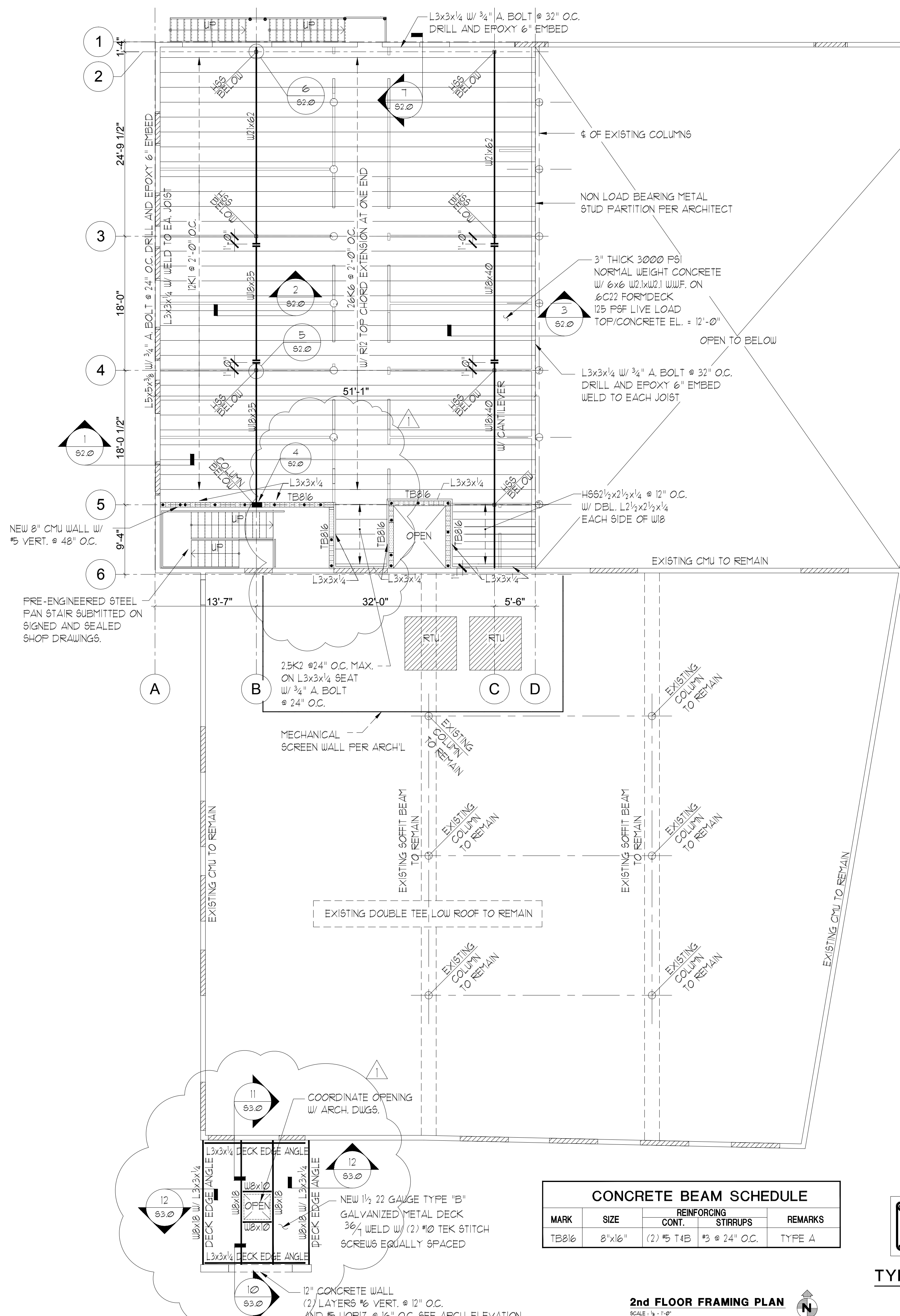
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DRAWING TITLE

2ND FLOOR FRAMING PLAN

DATE 6/29/2015 DRAWN BY
 DB NUMBER 100701
 DRAWING NUMBER

S2.0

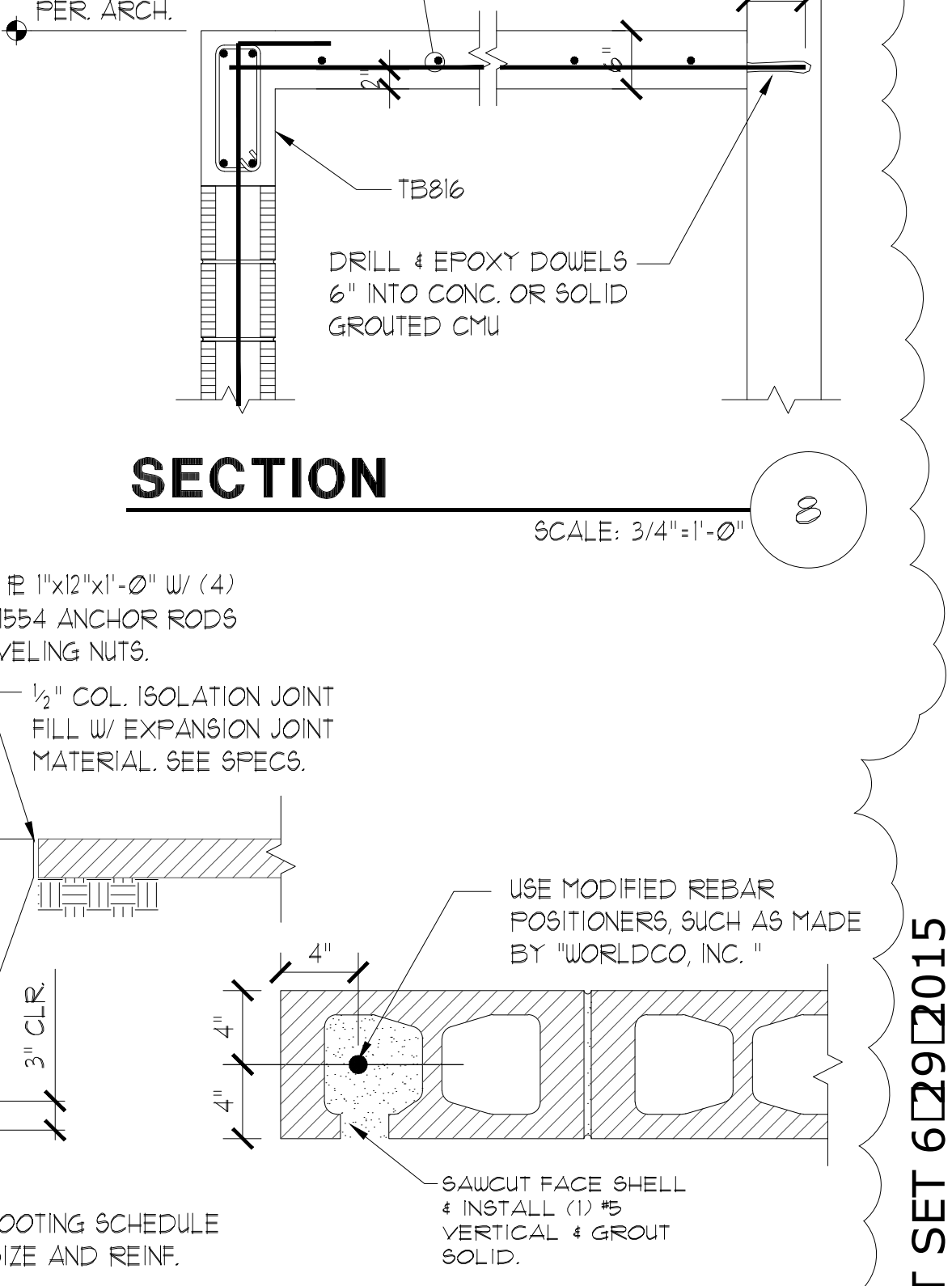
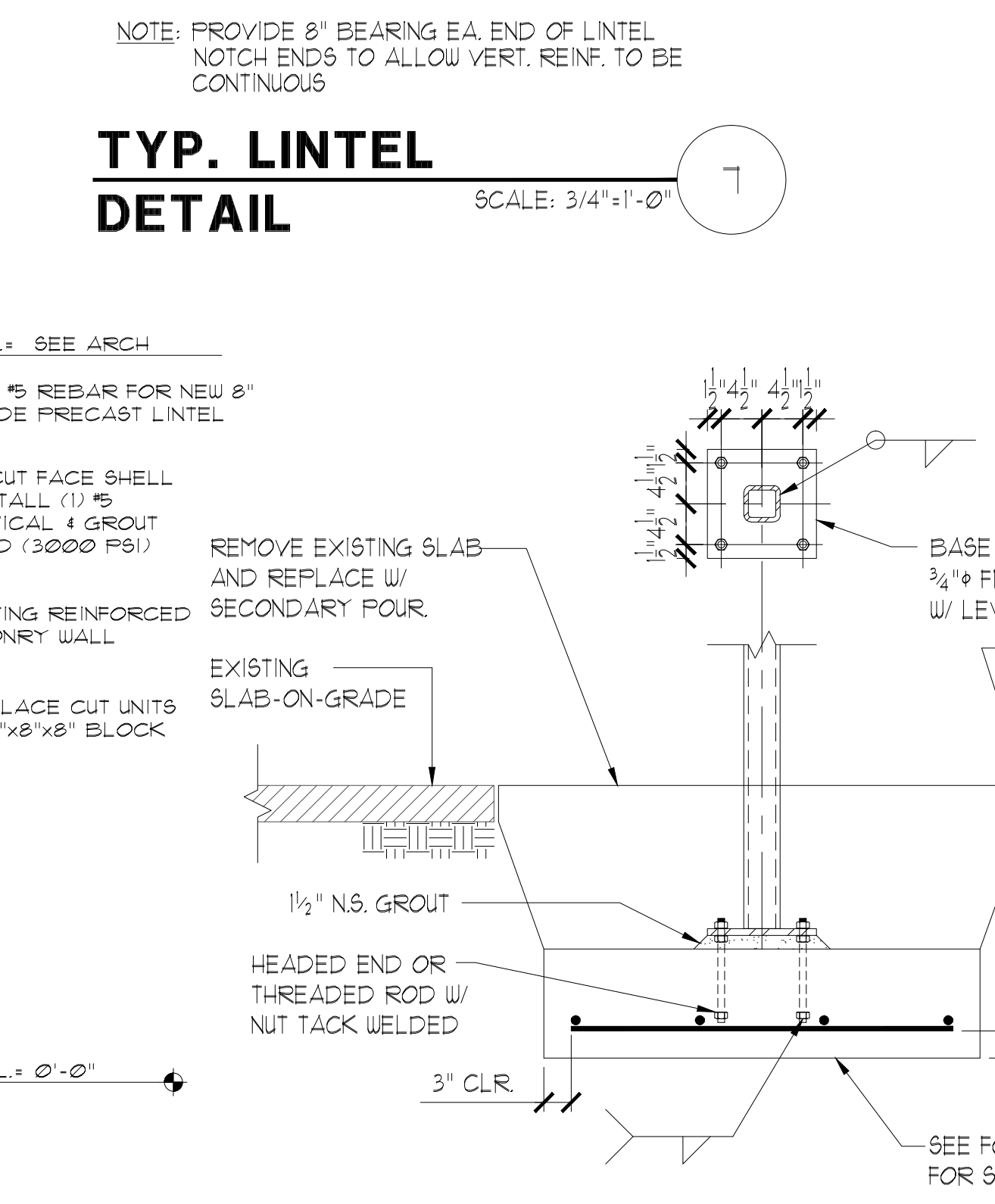
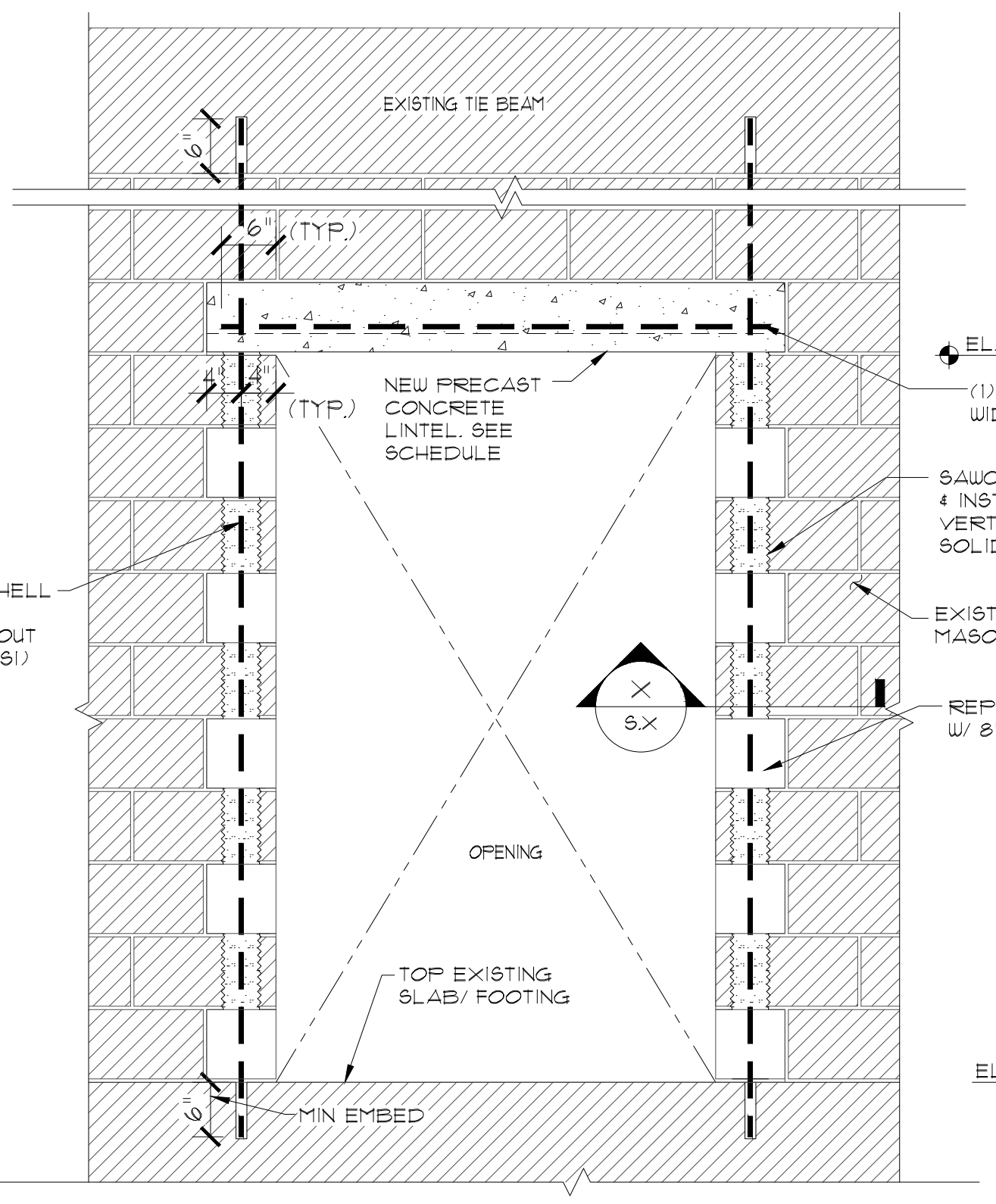
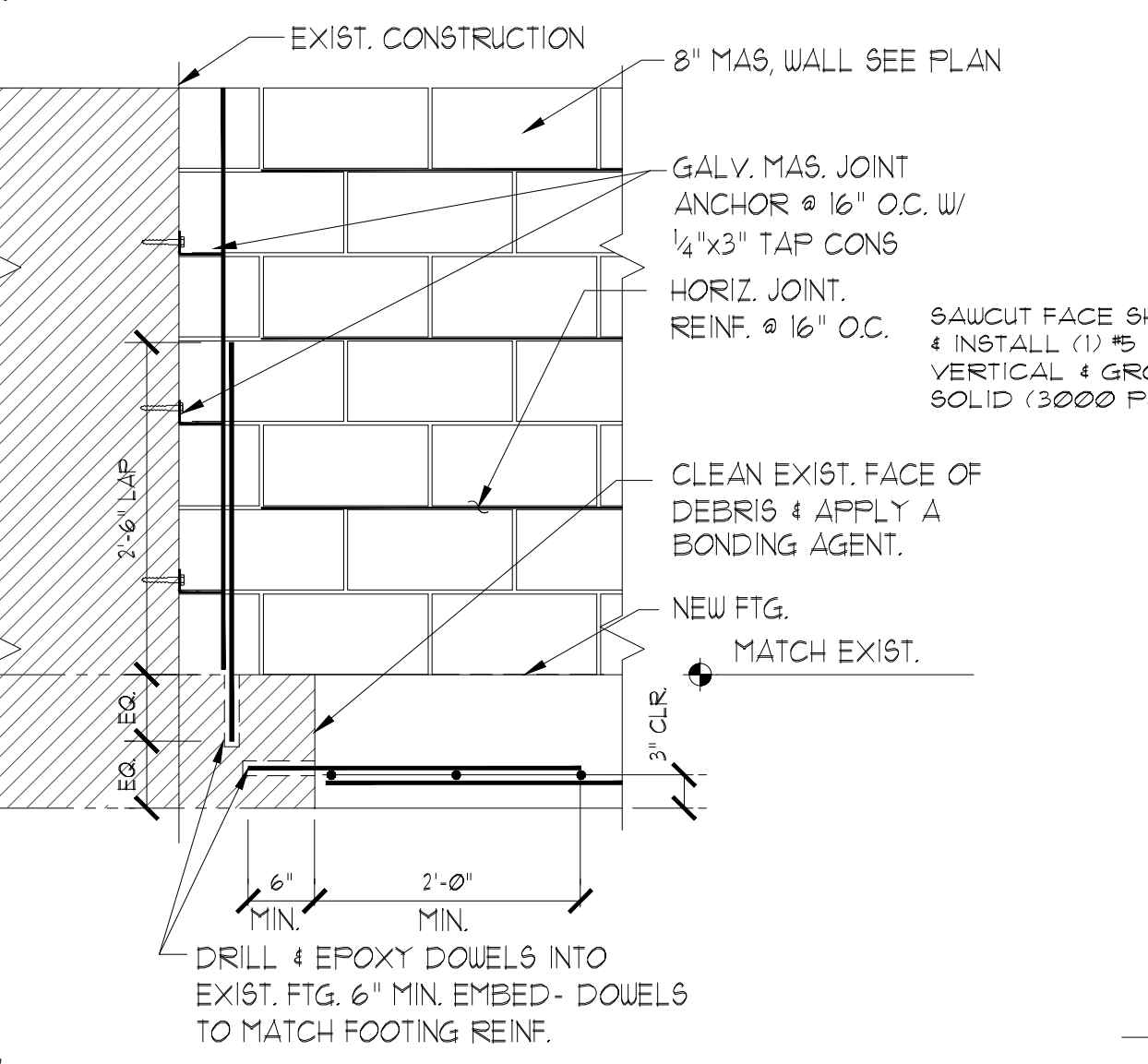
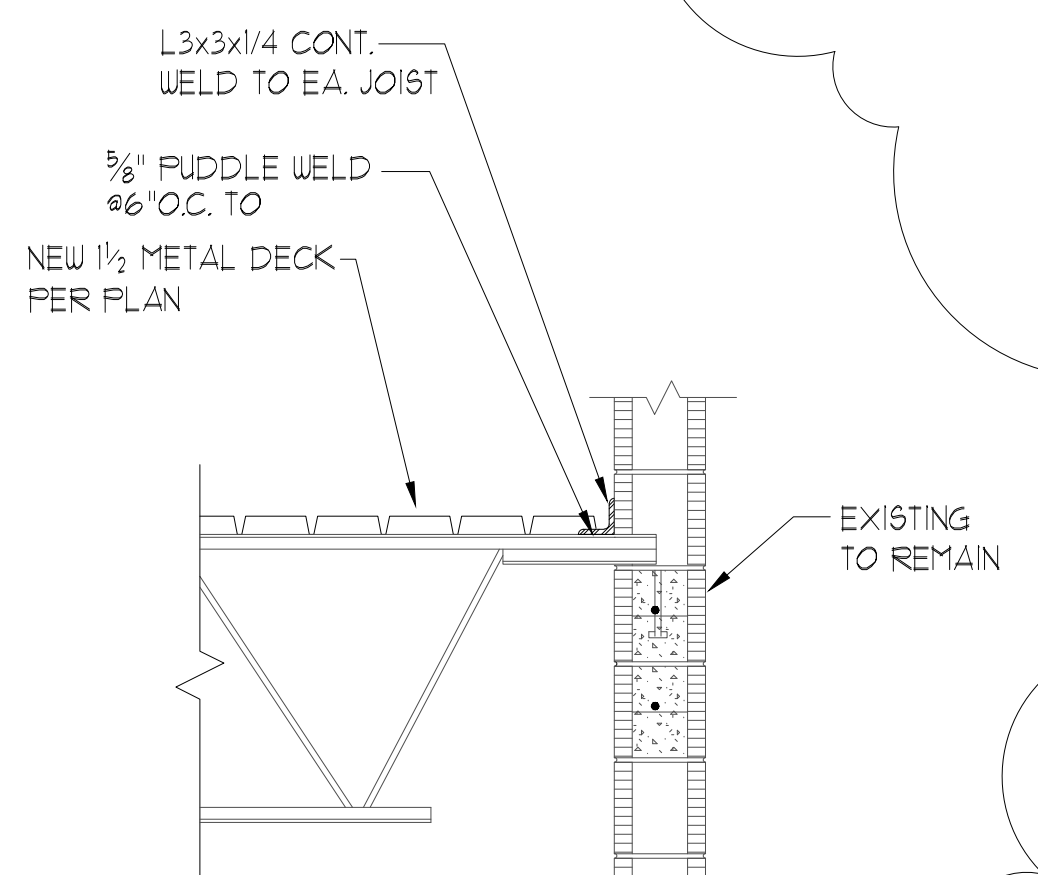
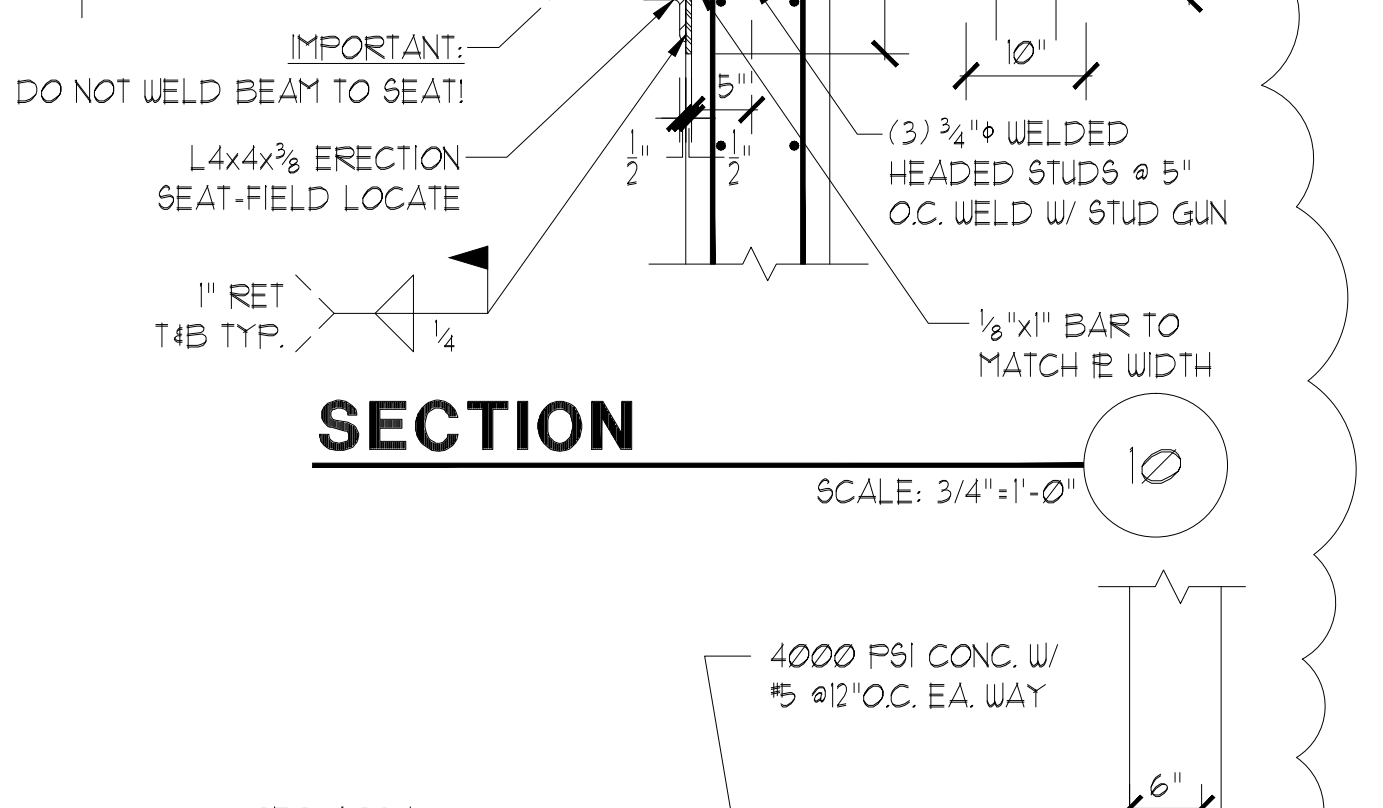
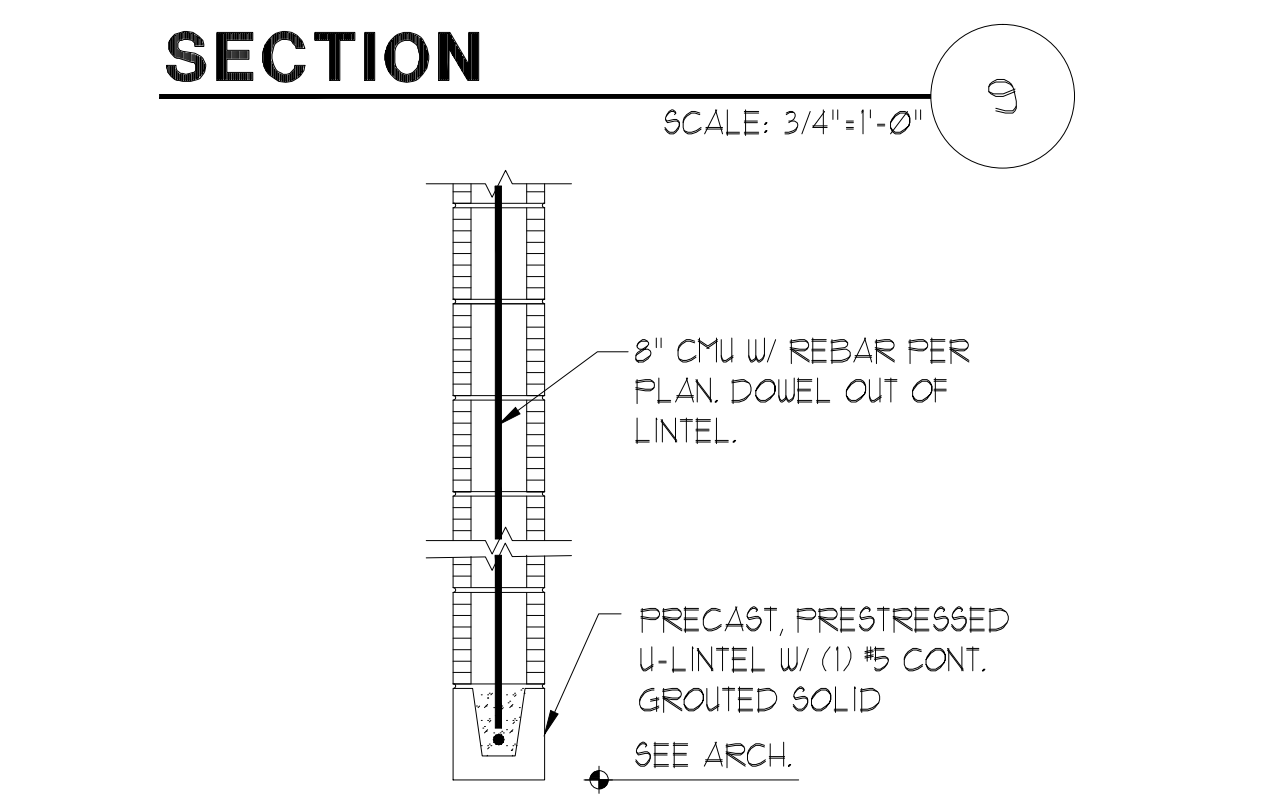
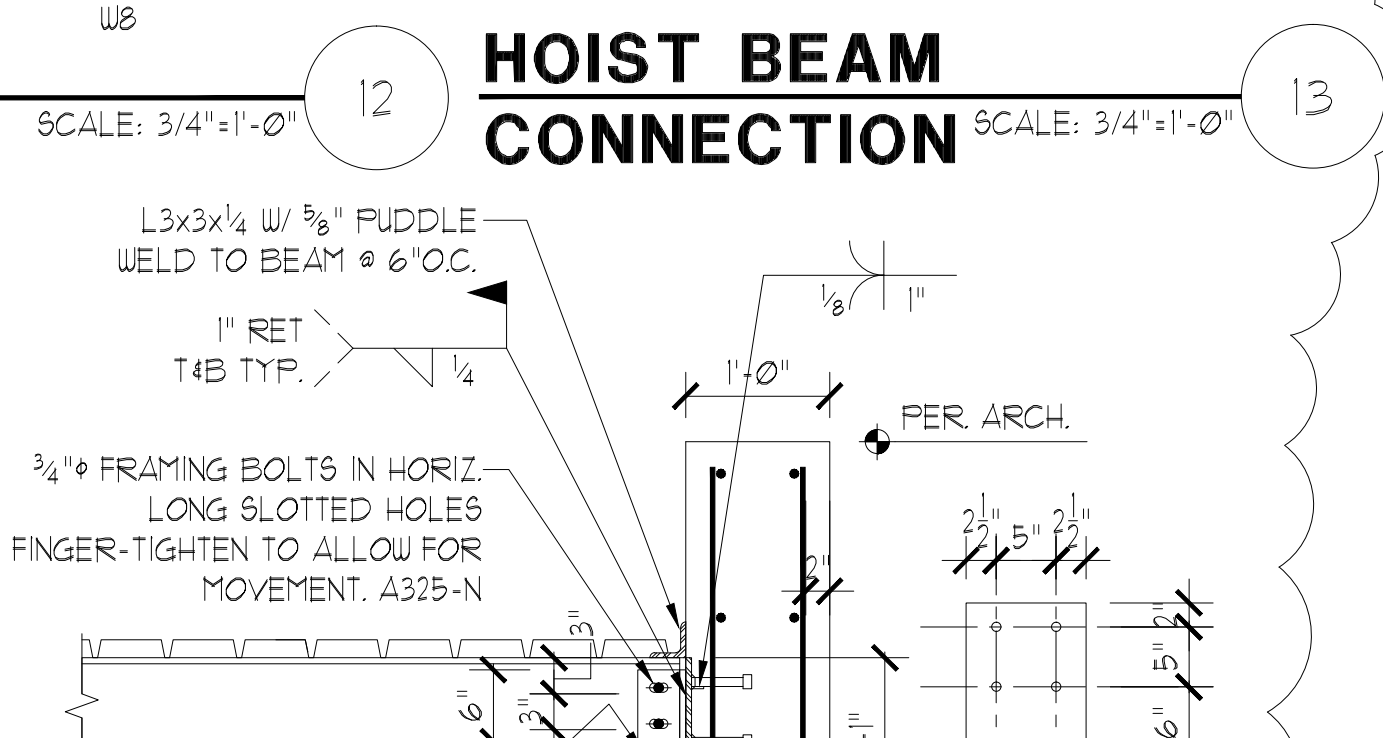
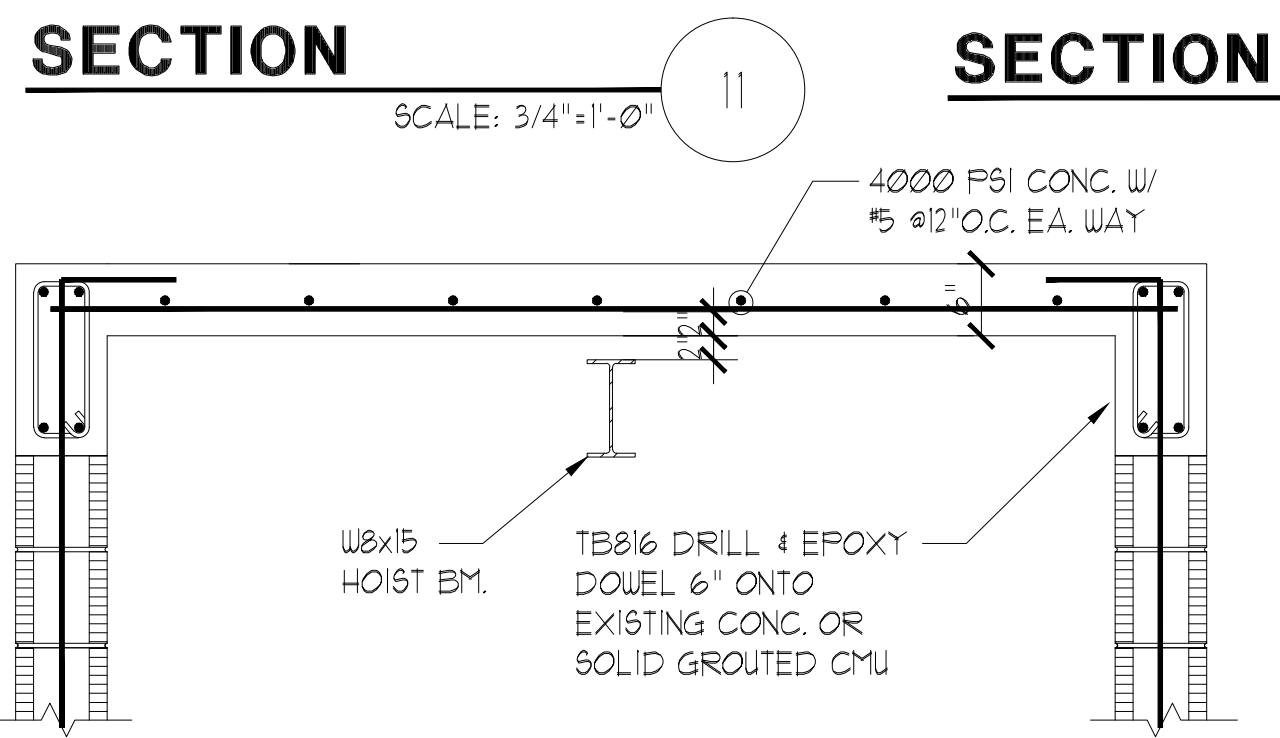
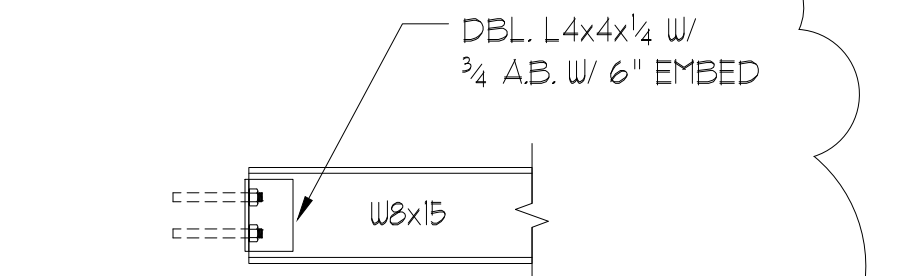
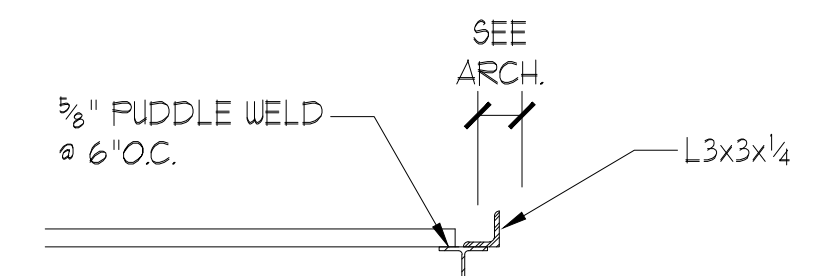
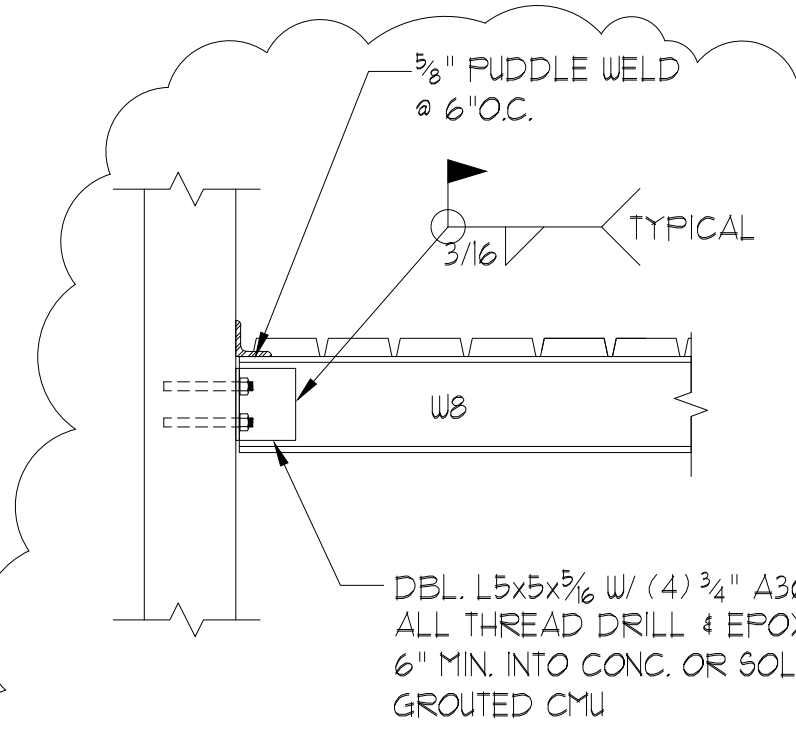
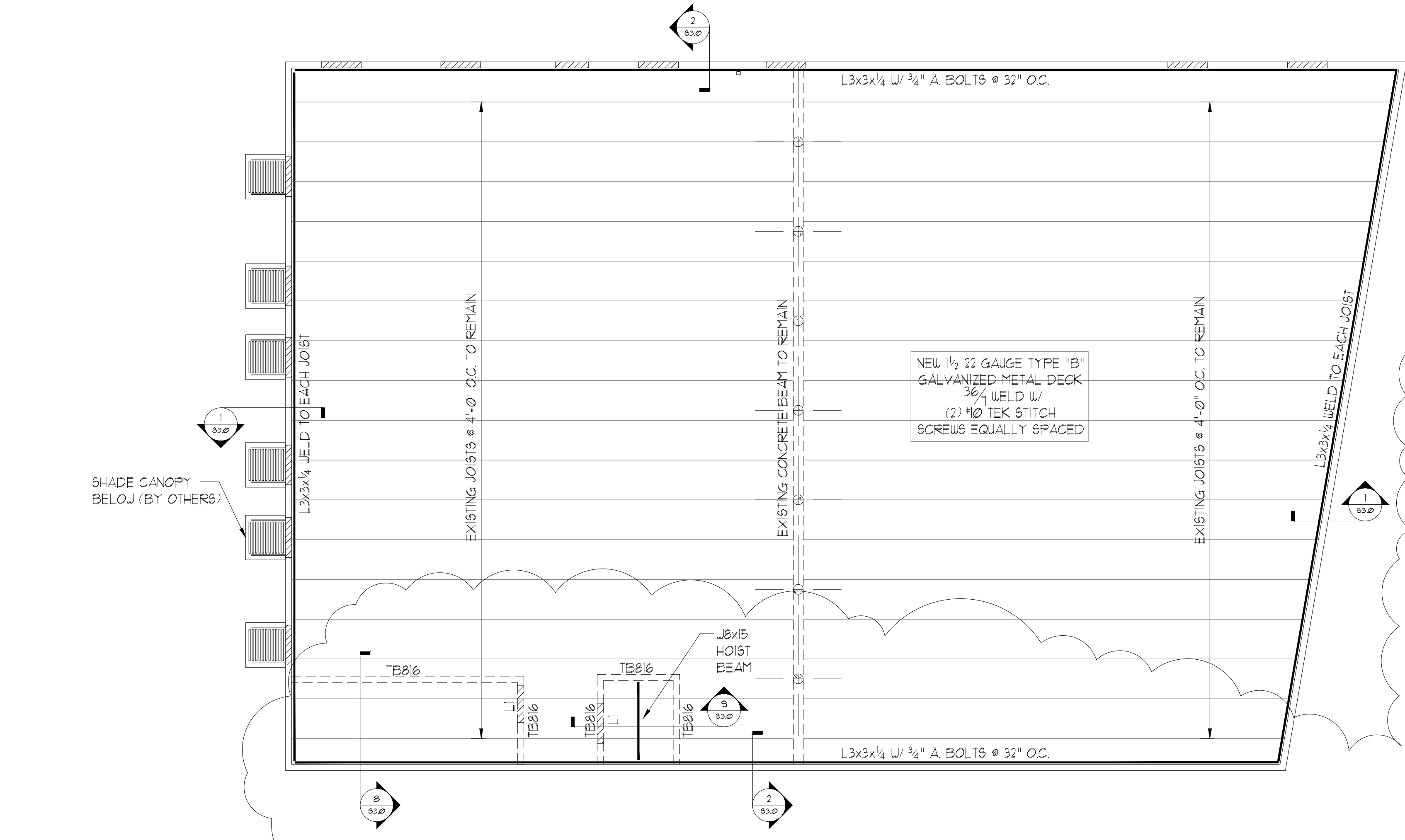


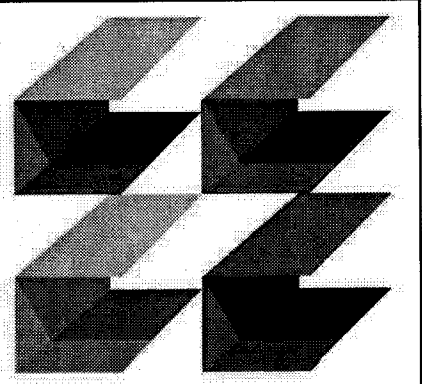
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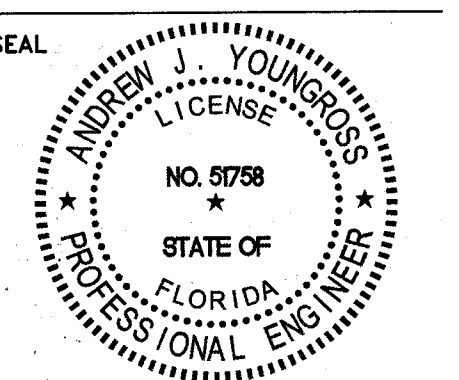
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ISSUED FOR :
SPRAB 02/13/15

BIDS
PERMIT
CONSTRUCTION



PROJECT TITLE
Art Warehouse

313 NE 3rd Street
Delray Bch, Florida, 33444

REVISIONS	NUM.	DESCRIPTION	DATE
△	1	SITE PLAN REVIEW COMMENT	7/14/15

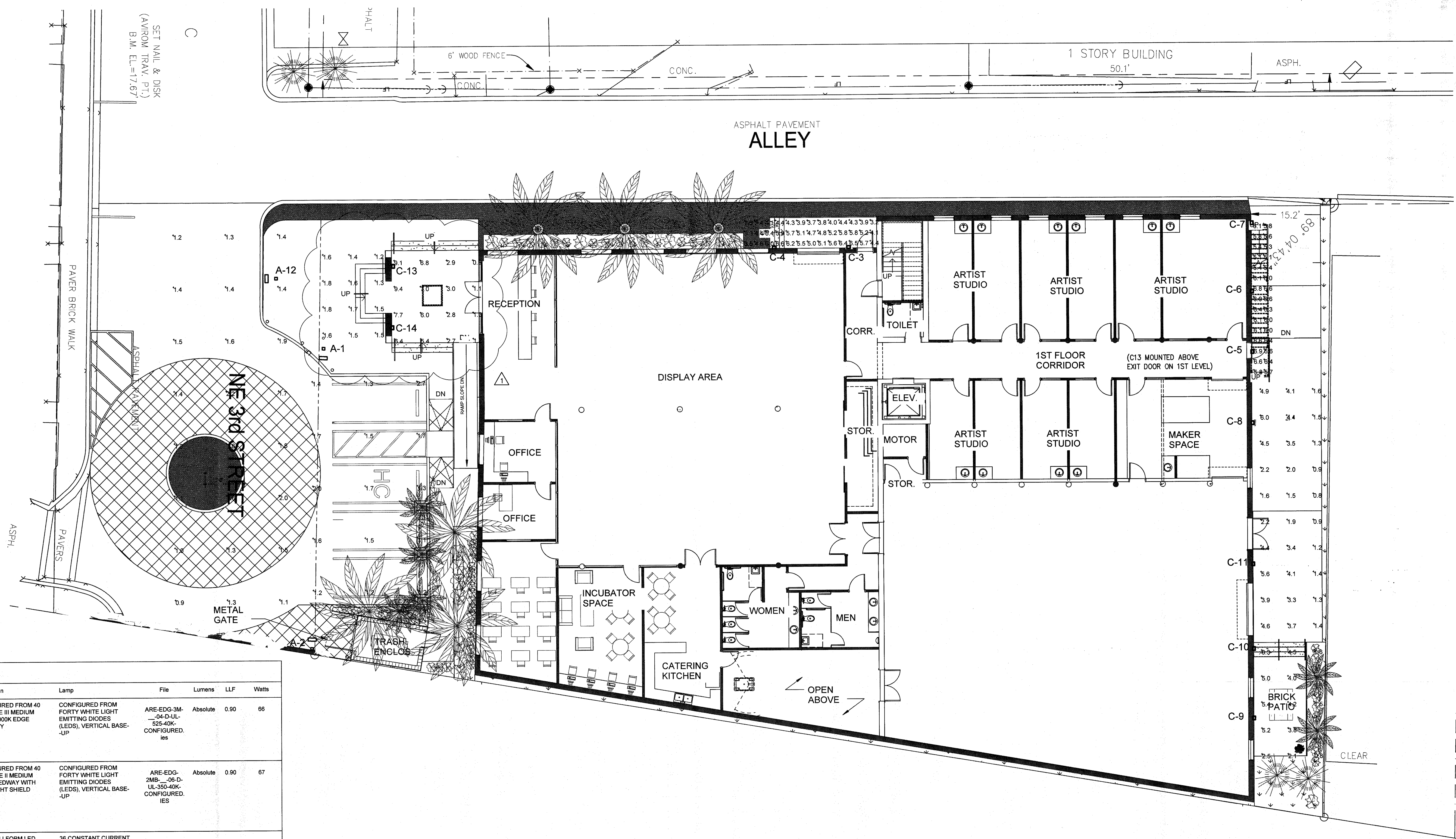
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FILE NUMBER
15009E-1.1.DWG

DRAWING TITLE
**SITE PLAN -
PHOTOMETRICS**

DATE 01/13/15 | DRAWN BY AJY
JOB NUMBER 100701/15009
DRAWING NUMBER

ES1.1



Symbol	Label	Qty	Catalog Number	Description	Lamp	File	Lumens	LLF	Watts
□	A	2	ARE-EDG-3M-04-D-UL-525-40K (525mA) CONFIGURED FROM SEC-EDG-3M-04-D-UL-350-40K or BXSIC-300D-UH7 (350mA)	CONFIGURED FROM 40 LED TYPE III MEDIUM 350mA 4000K EDGE SECURITY	CONFIGURED FROM FORTY WHITE LIGHT EMITTING DIODES (LEDS), VERTICAL BASE-UP	ARE-EDG-3M-04-D-UL-525-40K-CONFIGURED.ies	Absolute	0.90	66
□	B	1	ARE-EDG-2MB-06-D-UL-350-40K (350mA) CONFIGURED FROM STR-LWY-2MB-04-D-UL-700-43K or BXSLO304D-UD7 (700mA)	CONFIGURED FROM 40 LED TYPE II MEDIUM 700mA LEDWAY WITH BACKLIGHT SHIELD	CONFIGURED FROM FORTY WHITE LIGHT EMITTING DIODES (LEDS), VERTICAL BASE-UP	ARE-EDG-2MB-06-D-UL-350-40K-CONFIGURED.ies	Absolute	0.90	67
□	C	10	SW1-36LED-5100K	SITE WALLFORM LED DIE CAST ALUMINUM UPPER HOUSING AND BASE LED BOARDS AND BRACKETS MOUNTED IN HOUSING CLEAR FLAT GLASS LENS	36 CONSTANT CURRENT DIODES: 5100K	sw1-36led.ies	Absolute	0.90	38.5

No.	Label	X	Y	Z	MH	Orientation	Tilt	X	Y	Z
1	A	-112.6	46.5	20.0	20.0	182.5	0.0	-112.6	46.6	0.0
2	A	-115.1	-11.0	20.0	20.0	0.6	0.0	-115.1	-10.1	0.0
3	C	-12.3	65.2	10.0	10.0	0.0	0.0	-12.3	65.4	0.0
4	C	-26.4	65.2	10.0	10.0	0.0	0.0	-26.4	65.4	0.0
5	C	64.6	44.9	10.0	10.0	90.0	0.0	64.8	44.9	0.0
6	C	64.6	56.5	10.0	10.0	90.0	0.0	64.8	56.5	0.0
7	C	64.6	69.6	10.0	10.0	90.0	0.0	64.8	69.6	0.0
8	C	64.6	31.3	10.0	10.0	90.0	0.0	64.8	31.3	0.0
9	C	64.6	-25.3	10.0	10.0	90.0	0.0	64.8	-25.3	0.0
10	C	64.6	-12.0	10.0	10.0	90.0	0.0	64.8	-12.0	0.0
11	C	64.6	4.2	10.0	10.0	90.0	0.0	64.8	4.2	0.0
12	A	-121.5	60.0	20.0	20.0	-90.0	0.0	-122.4	60.0	0.0
13	C	-99.4	62.2	9.9	10.0	90.5	0.0	-99.2	62.2	-0.1
14	C	-99.6	50.5	9.9	10.0	90.0	0.0	-99.4	50.5	-0.1

Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
ENTRY STAIRS	+	1.5 fc	1.8 fc	1.2 fc	1.5:1	1.3:1
CANOPY	+	4.6 fc	9.4 fc	0.9 fc	10.4:1	5.1:1
EAST EXIT	+	4.8 fc	6.6 fc	2.6 fc	2.5:1	1.8:1
NORTH EXIT STAIR	+	6.1 fc	6.9 fc	5.1 fc	1.4:1	1.2:1
NORTH UTILITY AREA	+	3.0 fc	6.3 fc	0.8 fc	7.9:1	3.8:1
PARKING	+	1.5 fc	2.7 fc	1.1 fc	2.5:1	1.4:1
SOUTH DRIVE	+	1.4 fc	2.2 fc	0.9 fc	2.4:1	1.6:1

1 SITE PLAN - PHOTOMETRICS
ES1.1 1" = 10'-0"

TYECO
THOMPSON & YOUNGROSS
ENGINEERING CONSULTANTS, LLC
CERTIFICATE OF AUTHORIZATION
NO. 25996

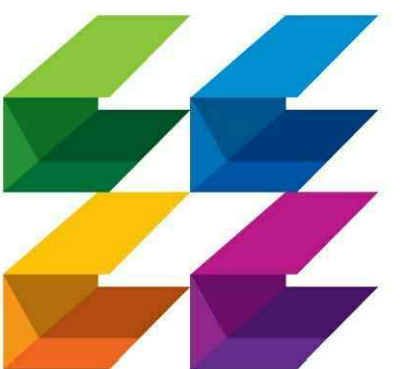
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SPRAB 2/13/2015

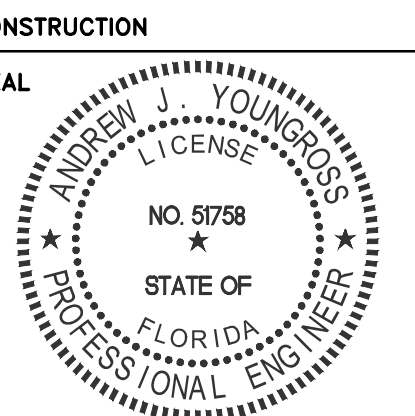
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ISSUED FOR :
SPRAB 02/13/2015
BIDS 06/25/2015
PERMIT 06/25/2015



PROJECT TITLE
Art Warehouse

ELECTRICAL NOTES

- ELECTRICAL CONTRACTOR SHALL BE FULLY COGNIZANT OF THE LATEST EDITION OF THE 2010 NEC, 2008 NEC, 2009 NFPA70, 2002 NFPA72, 2010 FLORIDA FIRE PREVENTION CODE AND ALL LOCAL CODES, ORDINANCES OF THE AUTHORITIES HAVING JURISDICTION AND PERFORM ALL WORK IN ACCORDANCE WITH THE INTENT AND REQUIREMENTS OF THESE CODES, ORDINANCES AND AUTHORITIES.
- DO NOT SCALE DRAWINGS. VERIFY DIMENSIONS IN FIELD PRIOR TO COMMENCEMENT OF ALL WORK. THE DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL LAYOUT OF ELECTRICAL SYSTEMS.
- WHEREVER THE WORD "PROVIDE" IS USED, IT SHALL MEAN TO "FURNISH AND INSTALL".
- FINAL CONNECTIONS TO EQUIPMENT SHALL BE PER MANUFACTURERS APPROVED WIRING DIAGRAMS, DETAILS AND INSTRUCTIONS. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO PROVIDE MATERIALS AND EQUIPMENT COMPATIBLE WITH EQUIPMENT ACTUALLY SUPPLIED.
- PROVIDE WITH SHOP DRAWING SUBMITTAL, 1/4" SCALE LAYOUT DRAWINGS OF AREAS WITH ELECTRICAL SWITCHGEAR AND TRANSFORMERS. LAYOUT SHALL SHOW LOCATIONS OF AND SHALL BE COORDINATED WITH MECHANICAL EQUIPMENT AND MECHANICAL EQUIPMENT SHALL BE DRAWN TO SCALE.
- IT IS THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS TO ESTABLISH A STANDARD OF QUALITY. THE ENGINEER RESERVES THE RIGHT TO APPROVE METHODS AND MATERIALS NOT REFLECTED HEREIN.
- THE CONTRACTOR SHALL REVIEW ARCHITECTURAL, STRUCTURAL AND MECHANICAL DRAWINGS AND SHALL PROVIDE LIGHTS, SWITCHES, RECEPTACLES, TELEPHONE OUTLETS, EQUIPMENT CONNECTIONS, ETC. AND ASSOCIATED GROUTING IN NEW AND REMODELED AREAS, EVEN IF SUCH AREAS ARE NOT SHOWN ON THE ELECTRICAL DRAWINGS, LAYOUTS, FIXTURE TYPES, QUANTITIES AND SPACING SHALL BE IN ACCORDANCE WITH SIMILAR AREAS ON THIS PROJECT. THE CONTRACTOR SHALL INCLUDE COSTS FOR THE ABOVE IN HIS BID. IN ADDITION, THE CONTRACTOR SHALL PROVIDE LAYOUT DRAWINGS FOR WORK IN SUCH AREAS AND SUBMIT FOR APPROVAL PRIOR TO ROUGH-IN.
- THE CONTRACTOR SHALL REVIEW ARCHITECTURAL, STRUCTURAL, MECHANICAL AND OTHER DRAWINGS PRIOR TO BID AND SHALL COORDINATE ALL TRADES TO PROVIDE A COMPLETE PRODUCT TO AVOID CONFLICTS BETWEEN TRADES, AND TO DETERMINE WHICH TRADE IS TO PERFORM THE NECESSARY WORK. COORDINATION BETWEEN TRADES SHALL INCLUDE LOW VOLTAGE WIRING.
- PROVIDE SUBSTITUTIONS OF ELECTRICAL EQUIPMENT OR REQUEST FOR "OR EQUIVALENT" OR "APPROVED EQUIVALENT" LISTING SHALL BE SUBMITTED TO THE ARCHITECT NOT LESS THAN TEN (10) WORKING DAYS PRIOR TO BID. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- WORK SHALL BE PERFORMED IN A WORKMANLIKE MANNER TO THE SATISFACTION OF THE ARCHITECT.
- ALL EQUIPMENT AND MATERIALS PROVIDED SHALL BE NEW AND IN CONFORMANCE WITH APPLICABLE PROVISIONS OF NEMA, ANSI, U.L., ETC. AND SHALL BEAR AN APPROVED TESTING AGENCY LABEL WHERE APPLICABLE.
- PROVIDE PERMITS AND INSPECTIONS AS REQUIRED.
- GUARANTEE THE INSTALLATION AGAINST DEFECTS IN MATERIALS AND WORKMANSHIP WHICH MAY OCCUR UNDER NORMAL USAGE FOR A PERIOD OF ONE YEAR AFTER OWNER'S ACCEPTANCE. DEFECTS SHALL BE PROMPTLY REMEDIATED WITHOUT COST TO THE OWNER.
- PROVIDE RECORD DRAWINGS TO THE BUILDING OWNER AND ARCHITECT WITHIN 30 DAYS AFTER SYSTEM ACCEPTANCE, PER FLORIDA BUILDING CODE - ENERGY CONSERVATION, SECTION 505.505.7.4.2. DRAWINGS SHALL INCLUDE ALL ADDENDUM ITEMS, CHANGE ORDERS, ALTERATIONS, RE-ROUTINGS, ETC.
- VERIFY EXACT LOCATION OF EQUIPMENT TO BE FURNISHED BY OTHERS PRIOR TO ROUGH-IN. MODIFICATIONS REQUIRED DUE TO LACK OF COORDINATION BY CONTRACTORS, WILL BE DONE AT NO ADDITIONAL COST TO THE OWNER.
- SYSTEMS SHALL BE TESTED FOR PROPER OPERATION. IF TESTS SHOW THAT WORK IS DEFECTIVE, THE CONTRACTOR SHALL MAKE CORRECTIONS NECESSARY AT NO COST TO THE OWNER.
- THE CONTRACTOR SHALL PROVIDE OPERATING MANUALS TO THE OWNER, PER PER FLORIDA BUILDING CODE - ENERGY CONSERVATION, SECTION 505.505.7.4.1.
- THE CONTRACTOR SHALL COORDINATE WITH FPL ALL REQUIREMENTS FOR CONDUIT ENTRY AND CABLE TERMINATIONS IN THE UTILITY TRANSFORMER. ANY CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER PRIOR TO COMMENCEMENT OF WORK.
- THE CONTRACTOR SHALL COORDINATE WITH THE TELEPHONE UTILITY FOR PROVIDING THE REQUIRED CONDUIT SIZE AND NUMBER TO THE TENANT SPACE. THE CONTRACTOR SHALL PROVIDE ALL CONDUITS WITH PULL CORDS AND SHALL INSTALL FROM THE LOCAL TELEPHONE BOARD TO THE MAIN POINT OF SERVICE.
- FIRE ALARM SYSTEM. CONTRACTOR SHALL PROVIDE DEVICES, CONDUIT, WIRES AND CABLE AS DIRECTED BY EQUIPMENT AND WORKMANSHIP SHALL MEET PREVAILING CODES. THE SYSTEM SHALL BE COMPLETE AND OPERABLE IN EVERY RESPECT. SUBMIT SINGLE LINE OF SYSTEM WITH SHOP DRAWINGS. THIS SINGLE LINE DIAGRAM SHALL SHOW DEVICES, CONDUIT, WIRE AND CABLE SIZES. EQUIPMENT TO BE USED AND SHALL BE STAMPED AND SIGNED BY LOCAL FIRE DEPARTMENT. SYSTEM CALIBRATION AND TESTING SHALL BE BY FACTORY CERTIFIED TECHNICIAN.
- NOT USED.
- WIRE SHALL BE COPPER, 75 DEGREES C RATED FOR GENERAL USE. FOR HID FIXTURES AND WIRING WITHIN 3 INCHES OF FLUORESCENT BALLAST WIRE SHALL BE COPPER, MINIMUM 90 DEGREES C RATED. SIZES INDICATED ARE FOR INSTALLATION IN A MAXIMUM 30 DEGREES C AMBIENT. CONDUCTOR AMPACITY SHALL BE DERATED FOR HIGHER AMBIENT INSTALLATIONS. THE CONTRACTOR SHALL INCREASE THE SIZE OF THE CONDUCTOR TO MEET VOLTAGE DROP REQUIREMENTS WHERE FIELD CONDITIONS INCREASE THE CONDUIT RUN LENGTH SUCH THAT THE VOLTAGE DROP IS EFFECTED.
- SPLICES IN EXTERIOR PULL BOXES AN MANHOLES SHALL BE MADE WATER PROOF USING "SCOTCHCAST" SPLICE KIT OR APPROVED EQUIVALENT. SEAL ENDS OF CONDUITS AND DUCTS WITH "DUCT SEAL" OR APPROVED EQUIVALENT.
- ALL EMPTY RACEWAY SYSTEMS SHALL HAVE A #12 PULL WIRE OR EQUIVALENT AND SHALL BE IDENTIFIED AT ALL JUNCTION, PULL AND TERMINATION POINTS, USING PERMANENT METALLIC TAGS. TAG SHALL INDICATE INTENDED USE OF CONDUIT, ORIGIN AND TERMINATION POINTS OF EACH INDIVIDUAL CONDUIT.
- PROVIDE APPROVED FIRE STOPPING MATERIALS AT ALL PENETRATIONS THROUGH FIRE RATED FLOORS AND WALLS TO PREVENT THE PASSAGE OF SMOKE, FIRE TOXIC GAS OR WATER THROUGH THE PENETRATION EITHER BEFORE, DURING OR AFTER A FIRE, AS REQUIRED BY ARTICLE 300, OF THE NEC.
- PRESENT SHOP DRAWING SUBMITTAL DATA AT ONE TIME, BOUND IN THREE-RING BINDERS, INDEXED IN A NEAT AND ORDERLY MANNER. PARTIAL SUBMITTALS WILL NOT BE ACCEPTED. SUBMITTALS SHALL INCLUDE, BUT NOT BE LIMITED TO: LIGHTING FIXTURES, SWITCHGEAR, PANELBOARDS, WIRING DEVICES, SAFETY SWITCHES, FUSES, MOTOR STARTERS, LAMPS, CONDUIT, CONDUIT FITTINGS AND TRANSFORMERS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING EQUIPMENT WHICH IS DAMAGED DUE TO INCORRECT FIELD WIRING PROVIDED UNDER THIS SECTION OR FACTORY WRING IN EQUIPMENT PROVIDED UNDER THIS SECTION.
- CONTRACTOR'S FAILURE TO ORDER OR RELEASE ORDER FOR MATERIALS AND/OR EQUIPMENT WILL NOT BE ACCEPTED AS A REASON TO SUBSTITUTE ALTERNATE MATERIAL, EQUIPMENT OR INSTALLATION METHODS.
- SYSTEMS SHALL BE COMPLETE, OPERABLE AND READY FOR CONTINUOUS OPERATION. LIGHTS, SWITCHES, RECEPTACLES, MOTORS, ETC., SHALL BE CONNECTED AND OPERABLE.
- RECEPTACLES WHICH ARE SHOWN WALL MOUNTED ON THE ELECTRICAL DRAWINGS ON WALLS WHICH, ON THE ARCHITECTURAL DRAWINGS AND ELEVATIONS ARE SHOWN AS GLASS OR PARTITIONS, SHALL BE FLUSH FLOOR DUPLEX RECEPTACLES MOUNTED ADJACENT TO BASE OR WALLS.
- VERIFY EXACT LOCATIONS OF EXISTING AND NEW UNDERGROUND UTILITIES, PIPING AND RACEWAY SYSTEMS PRIOR TO TRENCHING. PROVIDE NECESSARY TRENCHING, BACKFILL, EXCAVATION, SUPPORTS, SERVICE FEEDERS (CONDUIT AND/OR WIRE), PULL BOXES, TRANSFORMER PAD, SAW CUTTING AND PATCHING, CONCRETE/PAVING, ETC., REQUIRED BACKFILL TRENCHED TO 90% COMPACTION AND PATCH TO MATCH EXISTING. CONTRACTOR SHALL OBTAIN AND VERIFY EXACT UTILITY COMPANY DRAWINGS AND REQUIREMENTS.
- SEE DIVISION 15 DRAWINGS FOR LOCATION OF MECHANICAL EQUIPMENT. PROVIDE SERVICE TO AND CONNECT EQUIPMENT AS REQUIRED.
- SWITCHBOARDS, (DISTRIBUTION BOARDS), PANELBOARDS, DISCONNECT SWITCHES, MOTOR CONTROL CENTERS, SHALL BE MANUFACTURED BY CUTLER HAMMER, GENERAL ELECTRIC, SIEMENS (ITE) OR SQUARE "D". BOLT FREE STANDING EQUIPMENT TO 4" HIGH CONCRETE HOUSEKEEPING PADS.
- RECEPTACLE AND TELEPHONE OUTLETS AT COUNTER SHALL BE MOUNTED WITH THEIR LONG AXIS HORIZONTAL AT +42" UNLESS NOTED.
- WIRING CIRCUITS TO OPEN OFFICE WORKSTATIONS SHALL HAVE A DEDICATED NEUTRAL FOR EACH CIRCUIT. SHARED NEUTRALS ARE NOT ALLOWED. COMPUTER CIRCUITS SHALL HAVE A DEDICATED NEUTRAL. A GREEN GROUND WIRE SHALL BE PROVIDED FOR EACH CIRCUIT. THE GROUND CAN BE SHARED FOR MULTIPLE CIRCUITS (EXCEPT FOR IG CIRCUITS).
- DRY TYPE TRANSFORMERS SHALL BE 150 DEGREES C RISE WITH 220 DEGREES C INSULATION MOUNT ON RUBBER-IN-SHEAR ISOLATORS. MANUFACTURERS SHALL BE ASEA BROWN BOVERI, CUTLER HAMMER, GENERAL ELECTRIC, SIEMENS (ITE), OR SORREL (SO D).
- PROVIDE ENGRAVED NAMEPLATES ON SWITCHBOARDS, PANELBOARDS DISCONNECT SWITCHES, MOTOR CONTROL CENTERS, TRANSFORMERS, ETC., INDICATING EQUIPMENT DESIGNATION (OR DESIGNATION OF EQUIPMENT SERVED) AND VOLTAGE.
- PANEL DIRECTORIES SHALL BE REMOVABLE. SUBMIT PROPOSED SCHEDULE OF DIRECTORIES TO OWNER FOR APPROVAL. ROOM NAMES AND NUMBERS SHALL BE AS DIRECTED BY OWNER. DIRECTORIES SHALL BE TYPED AND INSTALLED UNDER CLEAR PLASTIC COVERS.
- DISCONNECT SWITCHES SHALL BE GENERAL DUTY TYPE. FUSIBLE SWITCHES SHALL ACCEPT CLASS "R" FUSES ONLY AND REJECT ALL OTHERS.
- PROVIDE DYM-O-TAPE TAG INSIDE COVER OF EACH FUSIBLE SWITCH, INDICATING SIZE AND TYPE OF FUSES PROVIDED.
- PROVIDE TWO (2) SETS OF THREE (3) SPARE FUSES FOR EACH SIZE AND TYPE PROVIDED ON THIS PROJECT. INSTALL FUSES IN A HINGED DOOR, SHEET METAL STORAGE CABINET EQUIPPED WITH CUPS OR CUBICLES, EACH MARKED WITH THE SIZE AND TYPE FUSE STORED THEREIN. PROVIDE NAMEPLATE "SPARE FUSES". INSTALL IN LOCATIONS AS DIRECTED BY OWNER.
- CIRCUIT BREAKERS SHALL BE BOLT-ON TYPE AND FUSES SHALL BE BUSSMANN OR LITLUFUSE.
- PROVIDE 4" HIGH CONCRETE EQUIPMENT PADS BENEATH SWITCHBOARDS, MOTOR CONTROL CENTERS, TRANSFORMERS, ETC., AND 8" HIGH CONCRETE EQUIPMENT AND BENEATH GENSET.
- ALL WIRING SHALL BE INSTALLED IN LISTED METALLIC RACEWAYS. RACEWAYS IN SLAB-ON-GRADE OR BELOW GRADE SHALL BE SCHEDULE 40 PVC. TRANSITIONS FROM BELOW TO ABOVE GRADE SHALL BE WITH RIGID STEEL ELBOWS WITH P.V.C. JACKET OR APPROVED EQUIVALENT PROTECTION. MET FITTINGS SHALL BE MALLEABLE IRON OR STEEL. CONNECTORS SHALL BE INSULATED THROUGH TYPE.
- NON-METALLIC AND FLEXIBLE CONDUITS SHALL HAVE A CODE SIZED COPPER GROUNDING CONDUCTOR. INCREASE CONDUIT SIZE AS REQUIRED.
- FIRE ALARM, SOUND, TELEPHONE, COMPUTER, AND SIMILAR SYSTEMS CONDUITS LARGER THAN 1" SHALL HAVE LONG RADIUS SWEEPS (12 TIMES THE DIAMETER).
- CONDUITS PENETRATING THRU ROOF SHALL HAVE FLASHING WITH CAULK TYPE COUNTER FLASHING SLEEVE. INSTALLATION SHALL BE WATER TIGHT.
- FINAL CONNECTIONS TO MOTORS, TRANSFORMERS AND OTHER VIBRATING EQUIPMENT SHALL BE WITH SEAL TIE FLEX AND APPROVED FITTINGS. DO NOT SECURE CONDUITS, DISCONNECTS OR DEVICES TO DUCTWORK OR MECHANICAL EQUIPMENT.
- WHERE PANELS ARE INSTALLED FLUSH WITH WALLS, EMPTY CONDUITS SHALL BE EXTENDED FROM THE PANEL TO AN ACCESSIBLE SPACE ABOVE OR BELOW. A MINIMUM OF ONE 3/4" C. SHALL BE INSTALLED FOR EVERY THREE SINGLE POLE SPARE CIRCUIT BREAKERS OR SPACES, OR FRACTION THEREOF, BUT NOT LESS THAN TWO CONDUITS. FLUSH MOUNTED PANEL SHALL BE INSTALLED IN 6" WALLS. COORDINATE WITH GENERAL CONTRACTOR.
- ALL ELECTRICAL SYSTEMS COMPONENTS SHALL BE LISTED OR LABELED BY U.L. OR OTHER RECOGNIZED TESTING FACILITIES.
- WIRE TERMINATION PROVISIONS FOR PANELBOARDS, CIRCUIT BREAKERS, SAFETY SWITCHES, AND ALL OTHER ELECTRICAL APPARATUS SHALL BE LISTED AS SUITABLE FOR 75 DEGREE C.
- ELECTRICAL CONTRACTOR SHALL PROVIDE CONTROLS, INTERLOCKS, ACCESSORIES, ETC., IN MOTOR CONTROL STARTERS AS REQUIRED BY THE TEMPERATURE CONTROL CONTRACTOR. STARTERS SHALL CONTAIN 120V CONTROL TRANSFORMER, PILOT LIGHT, AND PUSH BUTTONS OR SELECTOR SWITCH AS REQUIRED, IN ADDITION TO OTHER ITEMS (AUXILIARY CONTACTS, DOOR SWITCHES, RELAYS, ETC.) REQUIRED. SUBMIT ELEMENTARY CONTROL DIAGRAMS FOR APPROVAL. SUBMITTALS SHALL INCLUDE INDICATION OF PRIOR REVIEW AND ACCEPTANCE BY TEMPERATURE CONTROL CONTRACTOR. REFER TO DIV. 15 DRAWINGS AND TEMPERATURE CONTROL DIAGRAMS FOR ADDITIONAL CONDUIT, WIRE, RELAYS, TRANSFORMERS, CONNECTIONS, ETC. REQUIRED FOR A COMPLETE AND OPERABLE SYSTEM.
- PROVIDE A GREEN GROUND CONDUCTOR IN ALL BRANCH CIRCUITS FEEDING OUTLETS IN MEDICAL EXAM ROOMS.
- PROVIDE EXPANSION FITTINGS IN CONDUIT RUNS CROSSING STRUCTURAL EXPANSION JOINTS.
- THE LIGHTING HAS BEEN DESIGNED IN ACCORDANCE OF THE STATE OF FLORIDA BUILDING CODE - ENERGY CONSERVATION, SECTION 505 AND 506.
- VOLTAGE DROP CALCULATIONS ON ALL FEEDERS AND BRANCH CIRCUITS HAVE BEEN PERFORMED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE - ENERGY CONSERVATION, SECTION 505.505.7.3. THE CONTRACTOR IS RESPONSIBLE TO BE FAMILIAR WITH SECTION 505 AND SHALL UPSIZE THE CONDUCTORS FOR FEEDER AND BRANCH CIRCUITS BASED ON THE ACTUAL ROUTING IN THE FIELD.

LUMINAIRE LIST

TYPE	VOLTS	DESCRIPTION	LAMPS		MOUNTING	MANUFACTURER & CATALOG NUMBER	REMARKS
			NO.	DESIGNATION			
A	120	6" DOWN LIGHT - DAMP LISTED	1	LED - 30 WATT 2545 LUMEN	RECESSED	CREE AFB-30L-35K/SSGC-WF	
B	120	ELEVATOR PIT LIGHT	1	LED - C/OWLIGHT DA19-10w	SURFACE	ANP VTIW00GL-GUP100WG	
C	120	24"x48" DIRECT/INDIRECT TROFFER	1	LED - 44 WATT 4000 LUMEN	RECESSED	CREE ZR24-40L-35K-10v	
D	120	24"x24" DIRECT/INDIRECT TROFFER	1	LED - 32 WATT 3500 LUMEN	RECESSED	CREE ZR22-32L-35K-10v	
FA	120	SINGLE CIRCUIT TRACK	N/A		SURFACE	JESCO HTR-4/8-WH / HXJ / CABLE MTD.	
FB	120	SINGLE CIRCUIT TRACK HEAD	1	LED - C/OWLIGHT WH150.23	SURFACE	JESCO H-HV238-BK	
G	120	16" HIGH BAY	1	LED - 44 WATT 4000 LUMEN	PENDANT	CREE CSDW16-CXBA-HC-W-40K-UL-10v	
H	120	48" LINEAR STRIP	1	LED - 44 WATT 4000 LUMEN 90LPW	SURFACE	CREE LS4-40L-35K-10v-ACS-18-5-48-0148-8	
K	120	48" UTILITY WRAPAROUND	1	LED - 57 WATT 5400 LUMEN	SURFACE	TEXAS FLUORESCENT ECW-A-48L-S57W5400L-DMV-35K	
L	120	DECORATIVE WALL SCONCE	1	LED - C/OWLIGHT DA19-10w	SURFACE	ANP BRU-14-___E33UT14-___	
M	120	48" STAIRWELL FIXTURE	1	LED - 40 WATT 4000 LUMEN	SURFACE	TERRALUX TLF-SL48A-A4040-OC-BB	OCCUPANCY SENSOR EMERGENCY BATTERY
SA	120	AREA LUMINAIRE - TYPE 3 MEDIUM	1	LED - 66 WATT	POLE	CREE ARE-EDG-3M-**-04-D-UL-525-40K	
SB	120	AREA LUMINAIRE - TYPE 2 MEDIUM	1	LED - 67 WATT	POLE	CREE ARE-EDG-2MB-**-06-D-UL-350-40K	
SC	120	AREA LUMINAIRE - TYPE 4 MEDIUM	1	LED - 42 WATT	SURFACE	CREE XSPW-A-3M-C-U-XX	
SD	120	48" LED WALL WASH ACCENT	1	LED - 70 WATT	SURFACE	ECOSENSE LIGHTING 11LC-48-40-120-10	PROVIDE JUMPER AND LEADER CABLES AS REQUIRED FOR INTERCONNECTS.
	120	THERMOPLASTIC LED. EXT SIGN WITH GREEN LETTERS	INCLUDED		UNIVERSAL	EELP XC-2-G-W-EM	90 MIN BATTERY INTEGRAL TEST SWITCH SELF-DIAGNOSTIC GREEN LETTERS
	120	COMBO THERMOPLASTIC LED. EXT SIGN AND EMERGENCY LIGHT WITH GREEN LETTERS	INCLUDED		UNIVERSAL	EELP XC-LED-2G-W-HO	90 MIN BATTERY INTEGRAL TEST SWITCH SELF-DIAGNOSTIC GREEN LETTERS
	120	EMERGENCY LIGHT	INCLUDED		UNIVERSAL	EELP EM16-E-E-LP-12w-50WH	90 MIN BATTERY INTEGRAL TEST SWITCH SELF-DIAGNOSTIC

LUMINAIRE LIST NOTES

THE ABOVE FIXTURE SCHEDULE IS PREDICATED ON PERFORMANCE AND IS ALSO DESIGNED TO MEET CERTAIN AESTHETIC CRITERIA. ALL ALTERNATIVE SELECTIONS MUST BE SUBMITTED FOR PRIOR APPROVAL TO THE ARCHITECT AND ENGINEER TEN (10) PRIOR TO BID DATE. MANUFACTURERS NOT LISTED ON THE PLANS OR IN AN ADDENDUM WILL NOT BE ACCEPTED. SAMPLES WILL BE PROVIDED AT THE ARCHITECTS AND ENGINEER REQUEST FOR REVIEW OF EQUALITY. OCCUPANCY SENSORS SHALL HAVE PASSIVE INFRARED AND MICRPHONIC DUAL TECHNOLOGY.

ELECTRICAL SYMBOL LIST

	WALL SWITCH - 3 WAY - 125V - 20 AMP, MOUNT 46" A.F.F. OR AS NOTED		PANELBOARD
	WALL SWITCH - 4 WAY - 125V - 20 AMP, MOUNT 46" A.F.F. OR AS NOTED		DISTRIBUTION PANEL
	DIMMER SWITCH - 125V - 1000W - 20 AMP, MOUNT 46" A.F.F. OR AS NOTED		NON-FUSED DISCONNECT SWITCH.
	MOTOR RATED "SNAP" SWITCH - 125V - 20 AMP, MOUNT AS NOTED		FUSED DISCONNECT SWITCH OR CIRCUIT BREAKER ENCLOSURE.
	TIME DELAY WALL SWITCH - 1 POLE - 125V - 20 AMP. MOUNT 46" A.F.F. GREENHECK MODEL "GTD" OR EQUAL.		WEATHERPROOF
	LINE VOLTAGE OCCUPANCY SENSOR SWITCH - 120V-800W-6.7 AMP, WALL MOUNTED, 46" A.F.F. OR AS NOTED. DUAL TECHNOLOGY		EMERGENCY
	LINE VOLTAGE OCCUPANCY SENSOR SWITCH - 125V-800W-6 AMP, CEILING MOUNTED OR AS NOTED. DUAL TECHNOLOGY		ELECTRICAL OVERHEAD SERVICE LINE
	LINE VOLTAGE OCCUPANCY SENSOR SWITCH - 125V-800W-6 AMP, LUMINAIRE MOUNTED OR AS NOTED. DUAL TECHNOLOGY		ELECTRICAL UNDERGROUND SERVICE LINE
	SINGLE RECEPTACLE - 125V - 20 AMP - NEMA 5-20R, MOUNT 15" A.F.F. (STANDARD), 42" A.F.F. @ COUNTERTOPS OR AS NOTED		TELEPHONE SERVICE CONDUIT
	DUPLEX RECEPTACLE - 125V - 20 AMP - NEMA 5-20R, MOUNT 15" A.F.F. (STANDARD), 42" A.F.F. @ COUNTERTOPS OR AS NOTED		TELE-DATA SERVICE CONDUIT
	DUPLEX RECEPTACLE ON GROUND FAULT INTERRUPTER CIRCUIT. 125V - 20 AMP - NEMA 5-20R		ELECTRICAL CONDUIT
	DUPLEX RECEPTACLE WITH SPLIT BUS - TOP HALF ON SWITCH CONTROL. 125V - 20 AMP - NEMA 5-20R		ELECTRICAL CONDUIT CONCEALED IN WALLS OR IN CONCRETE
	DUPLEX RECEPTACLE WITH SPLIT BUS - TWO CIRCUIT WIRING. 125V - 20 AMP - NEMA 5-20R		ELECTRICAL CONDUIT UNDERGROUND
	QUAD RECEPTACLE - 125V - 20 AMP - NEMA 5-20R, MOUNT 15" A.F.F. (STANDARD), 42" A.F.F. @ COUNTERTOPS OR AS NOTED		ELECTRICAL CONTROL WIRING
	SINGLE RECEPTACLE - 125/250V - 30 AMP - NEMA 10-30R, MOUNT 15" A.F.F. (STANDARD) OR AS NOTED		ELECTRICAL WIRE HOME-RUN, 1ST HASH MARK REPRESENTS THE HOT, SECOND HASH MARK WITH A DOT REPRESENTS THE NEUTRAL, ARC WIRE MARK REPRESENTS THE GROUND
	SINGLE RECEPTACLE - 125/250V - 50 AMP - NEMA 10-50R, MOUNT 15" A.F.F. (STANDARD) OR AS NOTED		ELECTRICAL WIRE HOME-RUN, HASH MARK'S WITHOUT A DOT REPRESENTS THE NUMBER OF HOT'S, HASH MARK WITH A DOT REPRESENTS THE NEUTRAL, ARC WIRE MARK REPRESENTS THE GROUND
	JUNCTION BOX RECESSED IN FLOOR.		
	JUNCTION BOX MOUNTED ABOVE CEILING.		
	JUNCTION BOX RECESS OR MOUNTED IN WALL.		
	THERMOSTAT LOCATION, MOUNT 54" A.F.F.		
	TELEVISION OUTLET MOUNT 15" A.F.F. OR AS NOTED, PROVIDE CONDUIT IN WALL STUBBED UP 6" INTO CEILING CAVITY. COORDINATE EXACT SIZE OF J-BOX AND CONDUIT WITH CABLING CONTRACTOR.		
	TELE/DATA OUTLET, MOUNT 15" A.F.F. OR AS NOTED, PROVIDE CONDUIT IN WALL STUBBED UP 6" INTO CEILING CAVITY. COORDINATE EXACT SIZE OF J-BOX AND CONDUIT WITH CABLING CONTRACTOR.		

313 NE 3rd Street
Delray Bch, Florida, 33444

REVISIONS		
NUM	DESCRIPTION	DATE
1	Bldg. Dept. comments	08.21.15

THESE DRAWINGS ARE PREPARED PER ESTABLISHED INDUSTRY STANDARDS AND REPRESENT THE ARCHITECT AND ENGINEERS DESIGN CONCEPT. THEY ARE NOT INTENDED TO PROVIDE EVERY DETAIL OR CONDITION REQUIRED TO CONSTRUCT THE BUILDING. THE CONTRACTOR THROUGH SUBMITTALS AND OTHER COORDINATION EFFORTS IS FULLY RESPONSIBLE FOR PROVIDING A COMPLETE AND OPERATIONAL BUILDING WHETHER INDICATED ON THE PLANS OR NOT.

FILE NUMBER
15009_E
DRAWING TITLE
ELECTRICAL NOTES, LEGEND, LUMINAIRE LIST

DATE
06/25/2015
DRAWN BY
AA/MT/HL
JOB NUMBER
100701/15009
DRAWING NUMBER

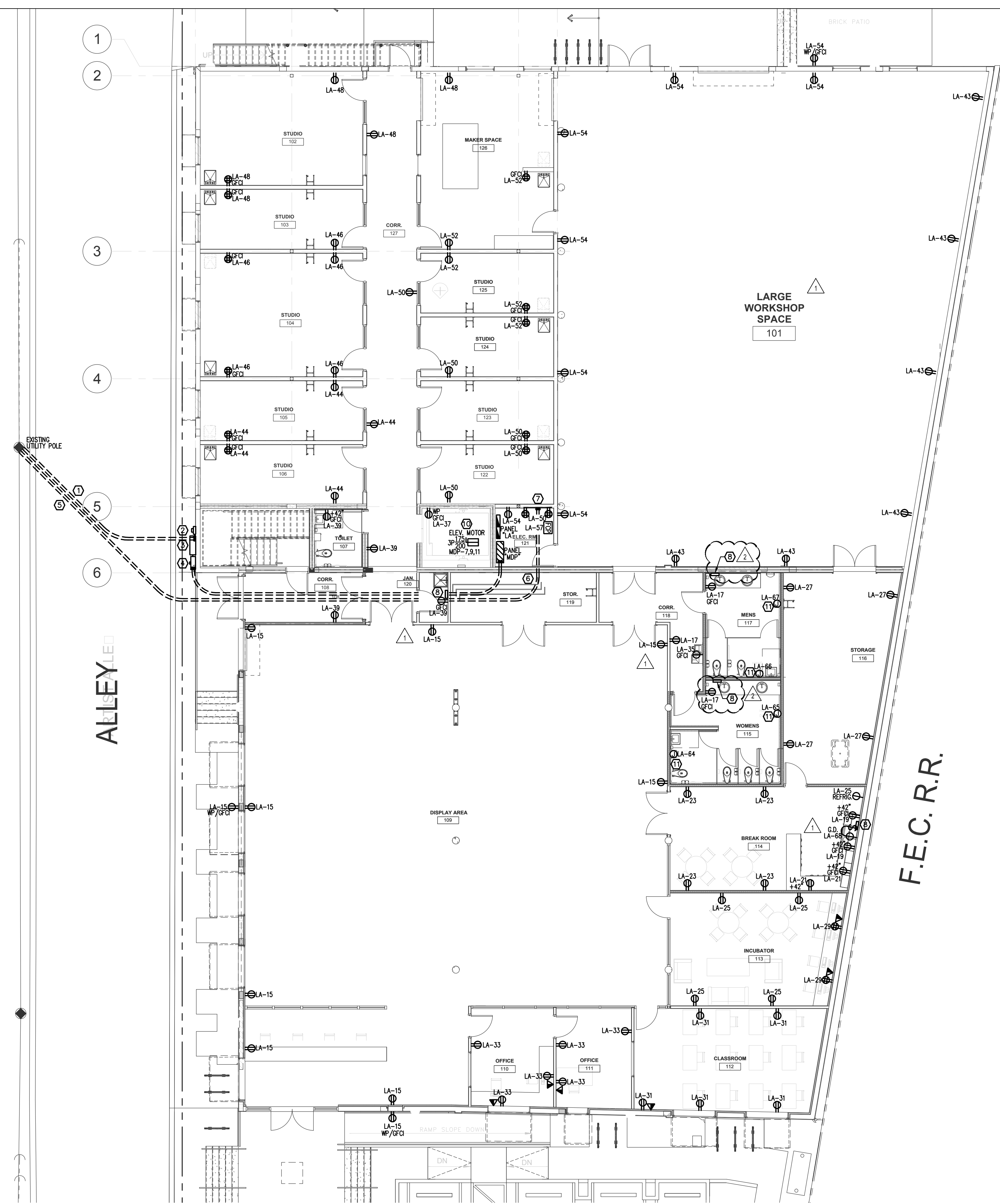
E-0.1

ELECTRICAL DRAWING LIST

E-0.1	ELECTRICAL NOTES, LEGEND AND LUMINAIRE LIST
E-1.1	FIRST FLOOR ELECTRICAL PLAN
E-1.2	SECOND FLOOR ELECTRICAL PLAN
E-2.1	FIRST FLOOR LUMINAIRE PLAN
E-2.2	SECOND FLOOR LUMINAIRE PLAN
E-3.1	RISER DIAGRAMS AND PANEL SCHEDULES
E-4.1	ELECTRICAL DETAILS

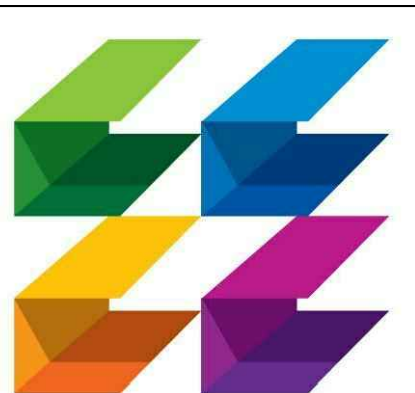
TYEC HVAC PLUMBING ELECTRICAL
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FIRST FLOOR ELECTRICAL PLAN
 1/8" = 1'-0"

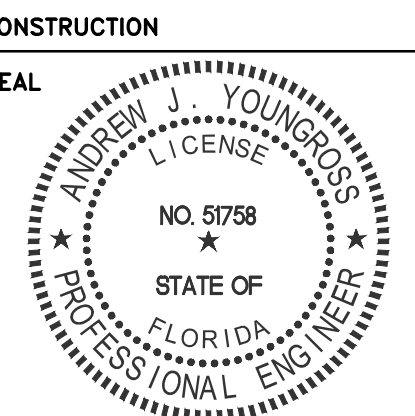
PLAN KEY NOTES	
①	2 SETS OF 3" E.C. WITH (4)-500KCM (CU) TO FPL TRANSFORMER. CONFIRM LOCATION AND CONNECTION WITH FPL REP., SEE RISER DIAGRAM.
②	FPL APPROVED METER CAN AND FPL METER, SEE RISER DIAGRAM.
③	FPL APPROVED C/T CABINET, SEE RISER DIAGRAM.
④	PROVIDE A 3P-240V-800A-NEMA 3R MAIN DISCONNECT WITH GROUND LUGS, SEE RISER DIAGRAM.
⑤	PROVIDE (2)-3" E.C. WITH 200 LB TEST PULL STRING TO UTILITY POLE FOR TELE / DATA / TV SERVICE.
⑥	CONTINUE (2)-3" E.C. TO MAIN ELECTRICAL ROOM. TERMINATE A TELE / DATA / TV BACKBOARD. SEE RISER DIAGRAM AND BACKBOARD DETAIL.
⑦	PROVIDE (6) 2" CONDUITS FROM BACKBOARD AND STUBBED INTO ADJACENT AREAS FOR TELE / DATA / TV CABLING ACCESS. SEE DETAILS.
⑧	PROVIDE A 2P-60AMP-240V-N/F DISCONNECT, MOUNTED ADJACENT TO THE INSTANTANEOUS WATER HEATER. SEE PANEL SCHEDULE FOR CIRCUITING INFORMATION.
⑨	CIRCUIT BREAKERS IN PANEL TO SERVE AS HVAC EQUIPMENT MEANS OF DISCONNECT.
⑩	COORDINATE ELEVATOR POWER REQUIREMENTS WITH ELEVATOR SHOP DRAWINGS. PROVIDE A 3P-240V-200A FUSED DISCONNECT AND PROVIDE FUSES AS PER EQUIPMENT NAMEPLATE RATING.
⑪	COORDINATE HAND DRYER REQUIREMENTS WITH ARCHITECT'S SPECIFICATION AND SHOP DRAWINGS. PROVIDE A JUNCTION BOX AT THE HEIGHT REQUIRED BY SAID SPECIFICATION AND SHOP DRAWING.



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ISSUED FOR :
 SPRAB 02/13/2015
 BIDS 06/25/2015
 PERMIT 06/25/2015



PROJECT TITLE
Art Warehouse

313 NE 3rd Street
 Delray Bch, Florida, 33444

NUM	DESCRIPTION	DATE
1	Bldg. Dept. comments	08.21.15
2	Bldg. Dept. comments	10.26.15

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FILE NUMBER
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DRAWING TITLE
FIRST FLOOR ELECTRICAL PLAN

DATE 06/25/2015 DRAWN BY AA/MT/HL

JOB NUMBER 100701/15009

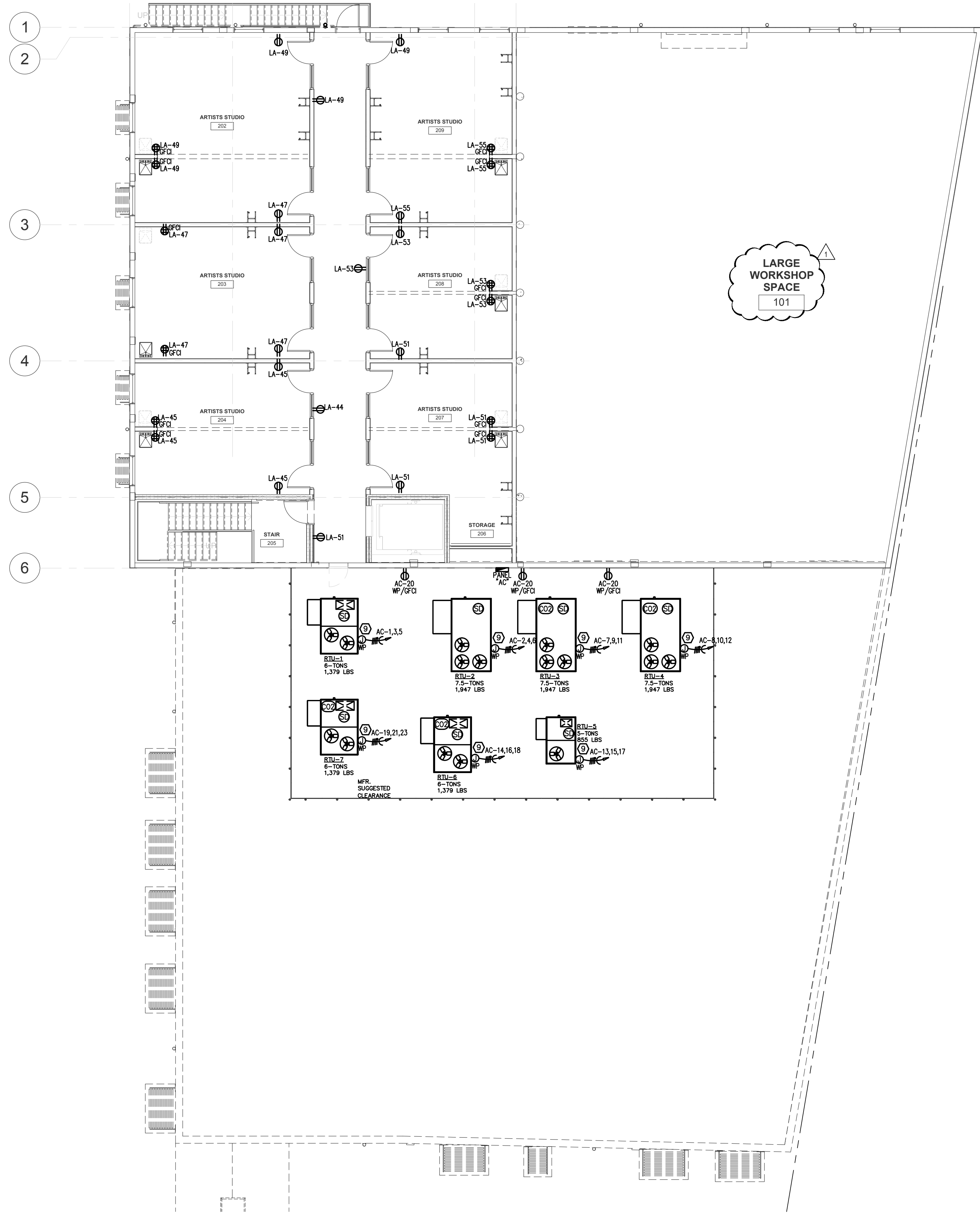
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E-1.1

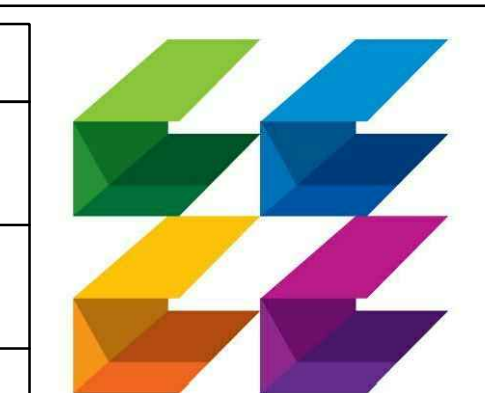
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PERMIT SET 06-29-15

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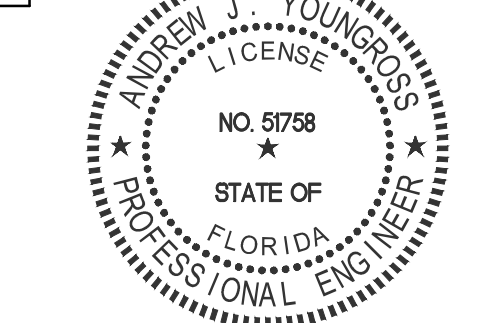


PLAN KEY NOTES	
①	2 SETS OF 3" E.C. WITH (4)-500KCM (CU) TO FPL TRANSFORMER. CONFIRM LOCATION AND CONNECTION WITH FPL REP., SEE RISER DIAGRAM.
②	FPL APPROVED METER CAN AND FPL METER, SEE RISER DIAGRAM.
③	FPL APPROVED C/T CABINET, SEE RISER DIAGRAM.
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 CONSTRUCTION
 SEAL



PROJECT TITLE
Art Warehouse

313 NE 3rd Street
 Delray Bch, Florida, 33444

NUM	DESCRIPTION	DATE
1	Bldg. Dept. comments	08.21.15

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FILE NUMBER
 15009_E

DRAWING TITLE
SECOND FLOOR ELECTRICAL PLAN

DATE 06/25/2015 DRAWN BY AA/MT/HL
 JOB NUMBER 100701/15009
 DRAWING NUMBER

E-1.2

SECOND FLOOR ELECTRICAL PLAN
 1/8" = 1'-0"

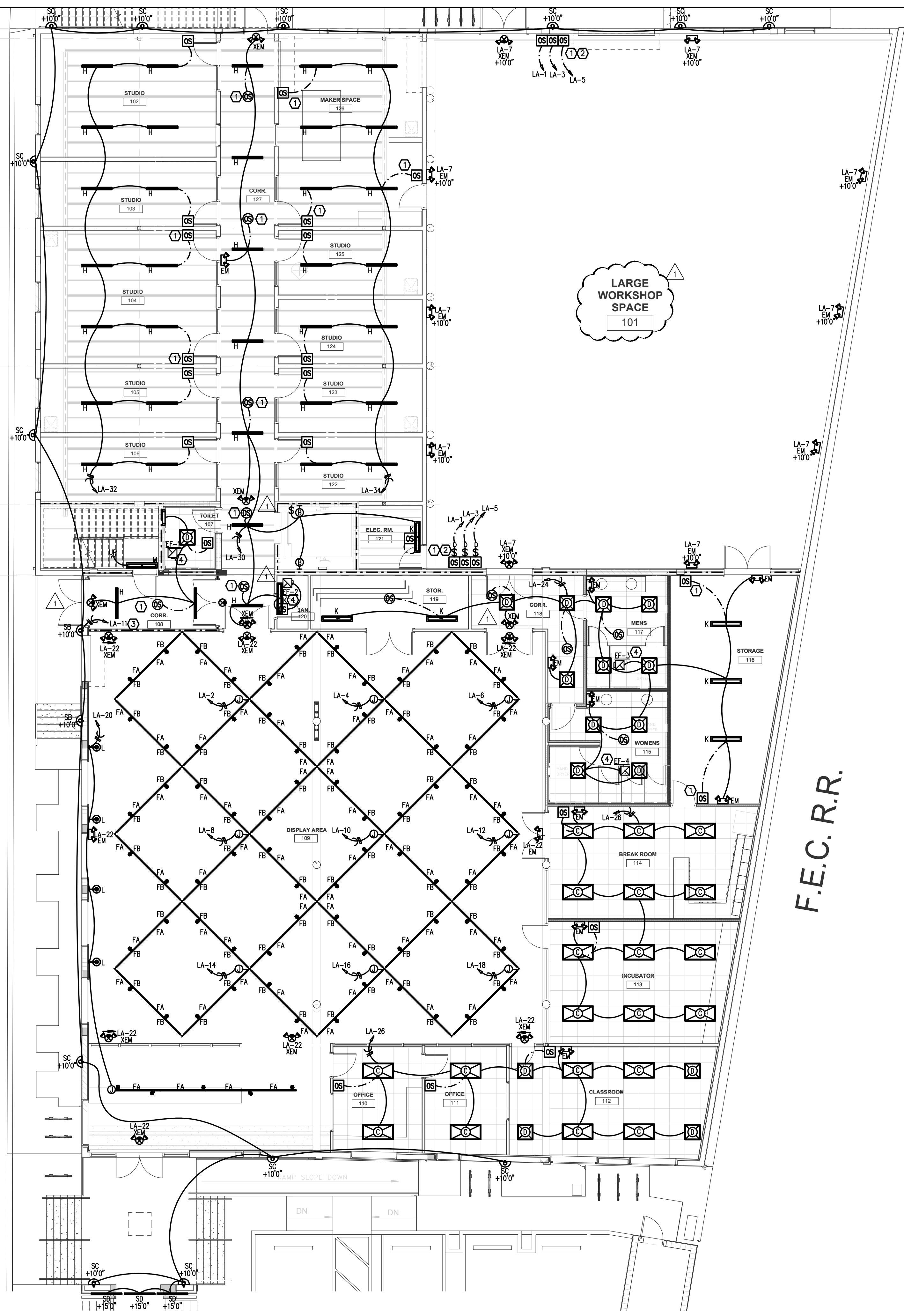
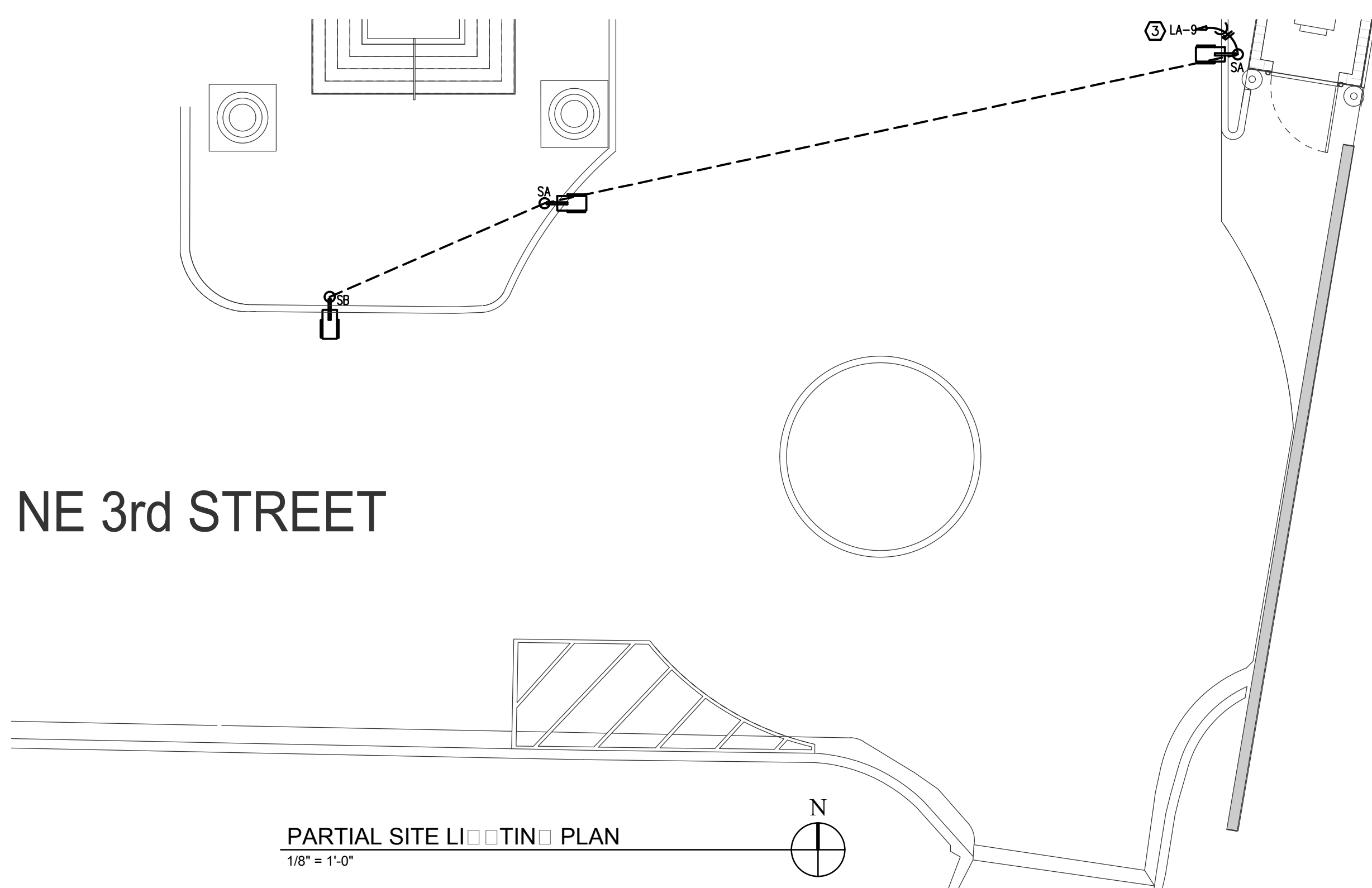
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NE 3rd STREET

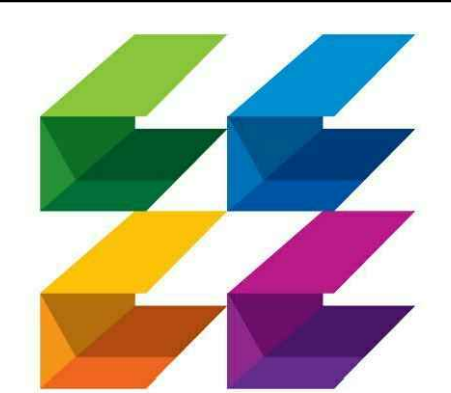
PARTIAL SITE LIGHTING PLAN
 1/8" = 1'-0"



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

PLAN KEY NOTES

- CONNECT OCCUPANCY SENSORS IN A 3-WAY / 4-WAY CONFIGURATION.
- PROVIDE DIMMER ON LOAD SIDE OF OCCUPANCY SENSOR, ENABLING 0-10V DIMMING FOR LIGHTING FIXTURES.
- BUILDING MOUNTED AND POLE MOUNTED LUMINAIRES ARE TO BE CONTROLLED BY WAY OF A PHOTOCELL "ON" AND TIME-CLOCK "OFF".
- EXHAUST FAN TO BE CONNECTED TO CIRCUIT AS INDICATED AND ON/OFF OPERATION IS INTERLOCKED WITH RTU SERVING THIS AREA. COORDINATE WITH MECHANICAL PLANS.

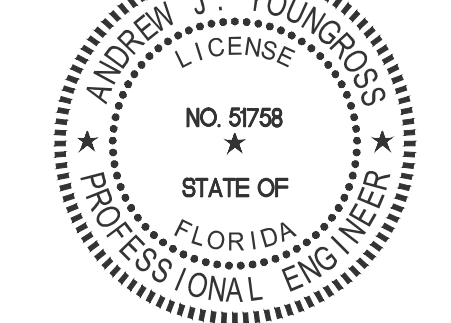


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CONSTRUCTION SEAL



PROJECT TITLE
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313 NE 3rd Street
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REVISIONS

NUM.	DESCRIPTION	DATE
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FILE NUMBER
 15009_E

DRAWING TITLE
 FIRST FLOOR LIGHTING PLAN

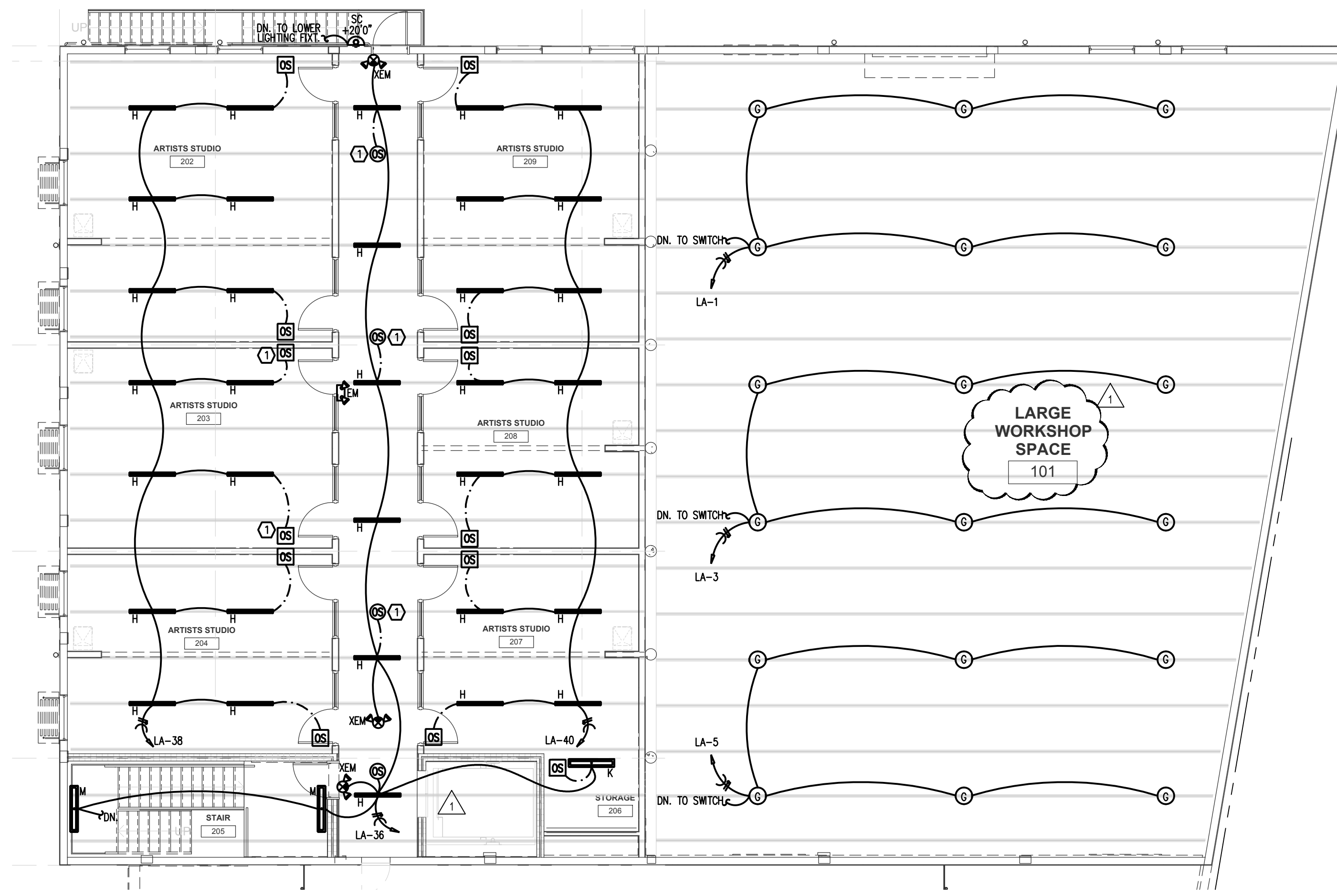
DATE 06/25/2015 DRAWN BY AA/MT/HL
 JOB NUMBER 100701/15009
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E-2.1

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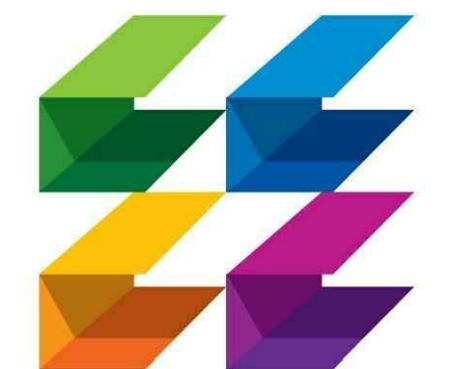
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SECOND FLOOR LIGHTING PLAN
1/8" = 1'-0"

PLAN KEY NOTES

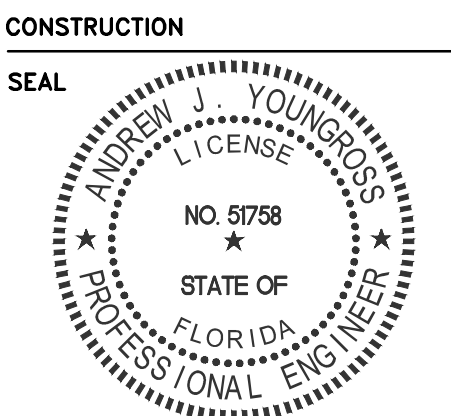
- CONNECT OCCUPANCY SENSORS IN A 3-WAY / 4-WAY CONFIGURATION.
- PROVIDE DIMMER ON LOAD SIDE OF OCCUPANCY SENSOR, ENABLING 0-10V DIMMING FOR LIGHTING FIXTURES.
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PROJECT TITLE
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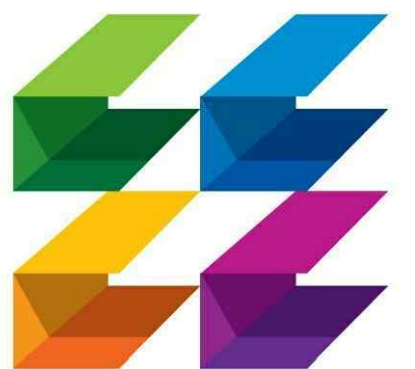
FILE NUMBER
15009_E

DRAWING TITLE
SECOND FLOOR LIGHTING PLAN

DATE	06/25/2015	DRAWN BY	AA/MT/HL
JOB NUMBER	100701/15009		
DRAWING NUMBER	E-2.2		

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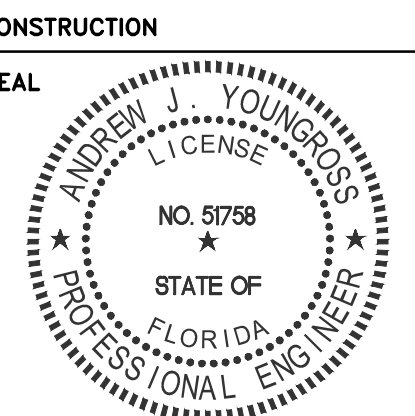
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FILE NUMBER
15009_E

DRAWING TITLE
ELECTRICAL RISER DIAGRAM
RISER DIAGRAM
PANEL SCHEDULES

DATE 06/25/2015 DRAWN BY AA/MT/HL
JOB NUMBER 100701/15009
DRAWING NUMBER

E-3.1

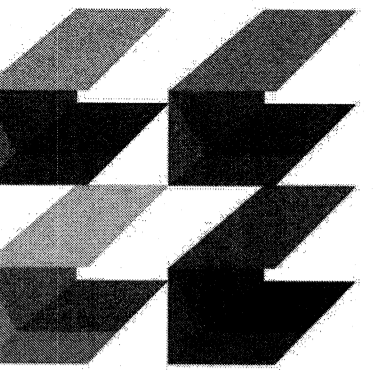
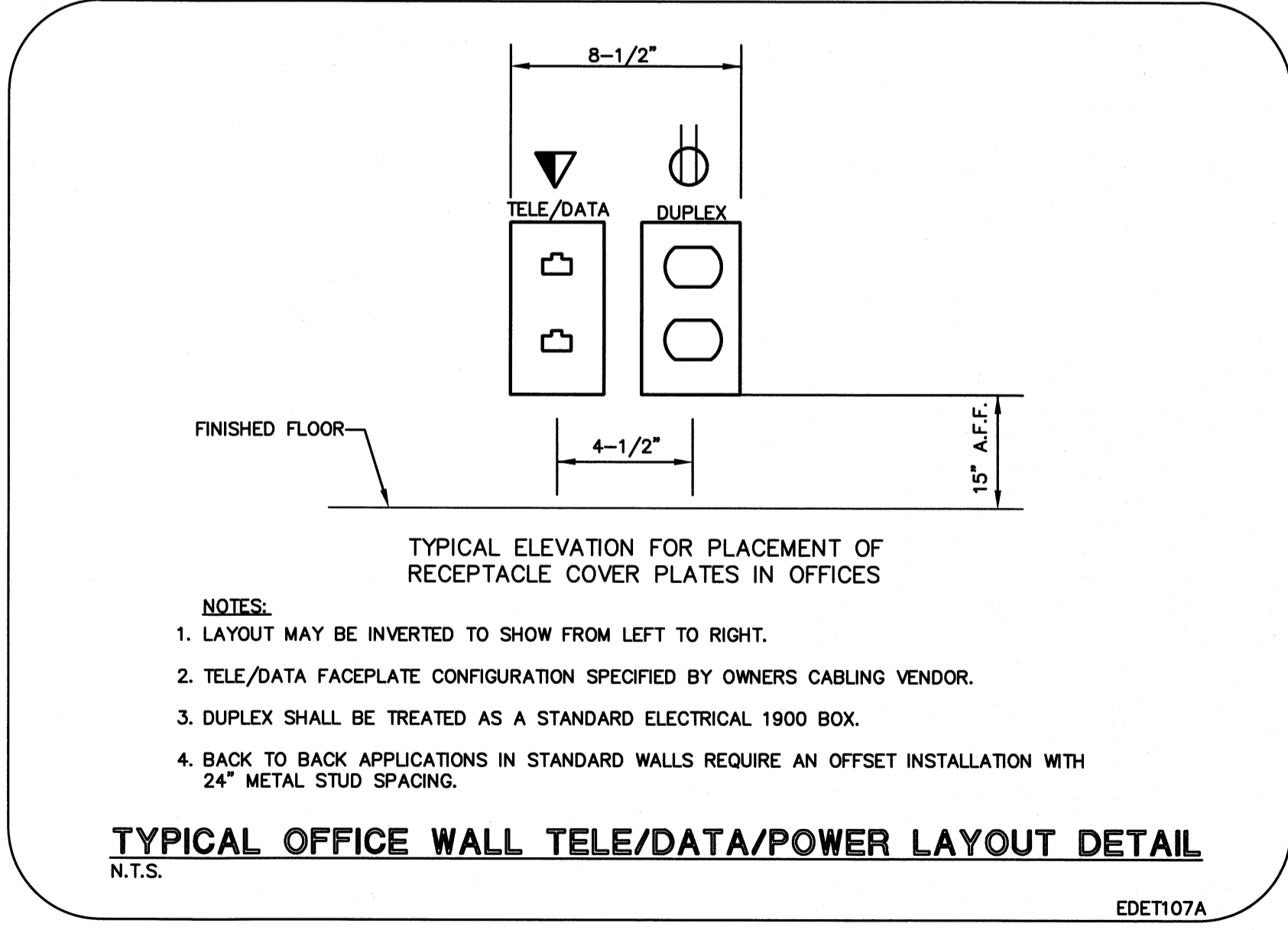
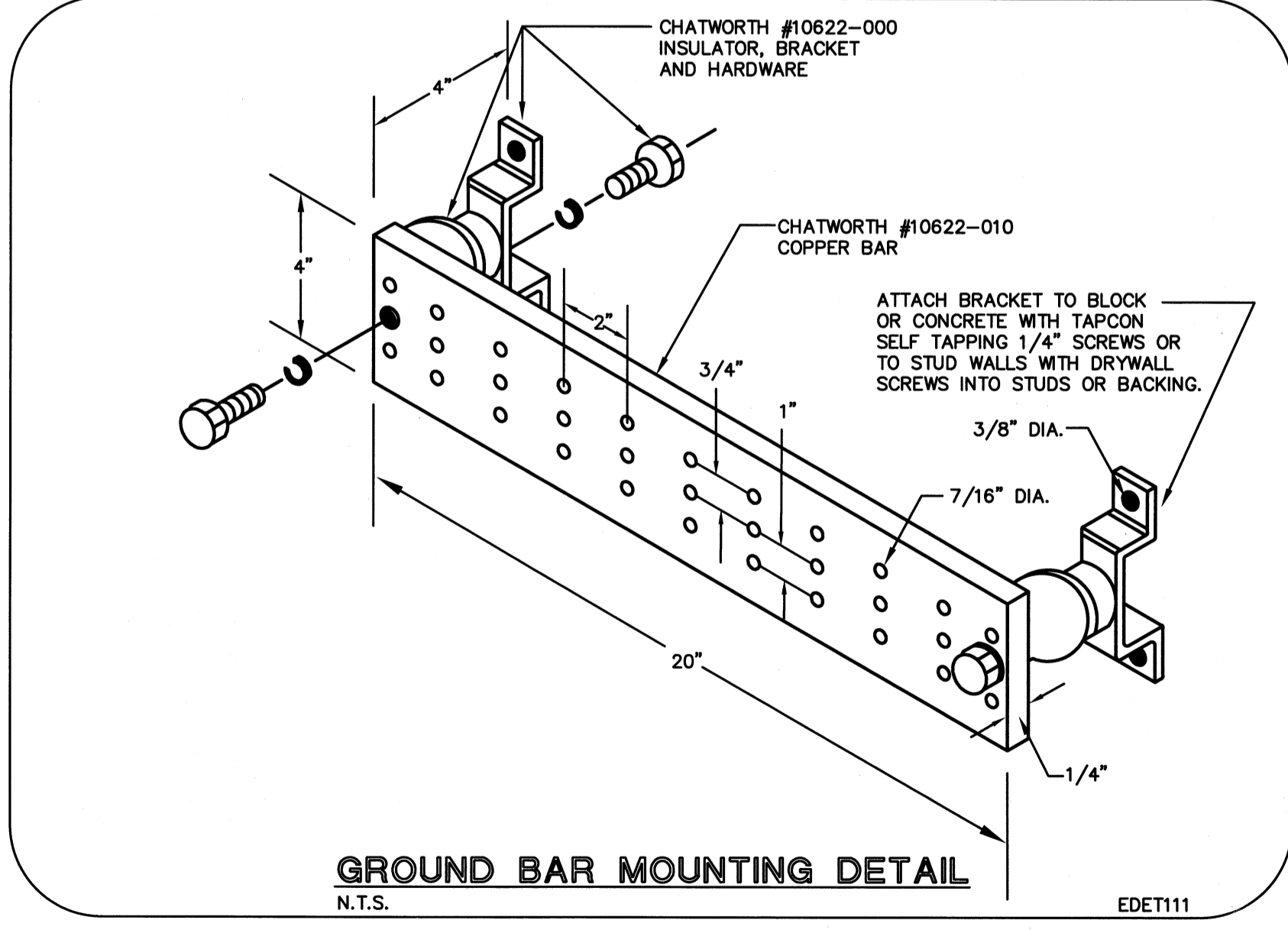
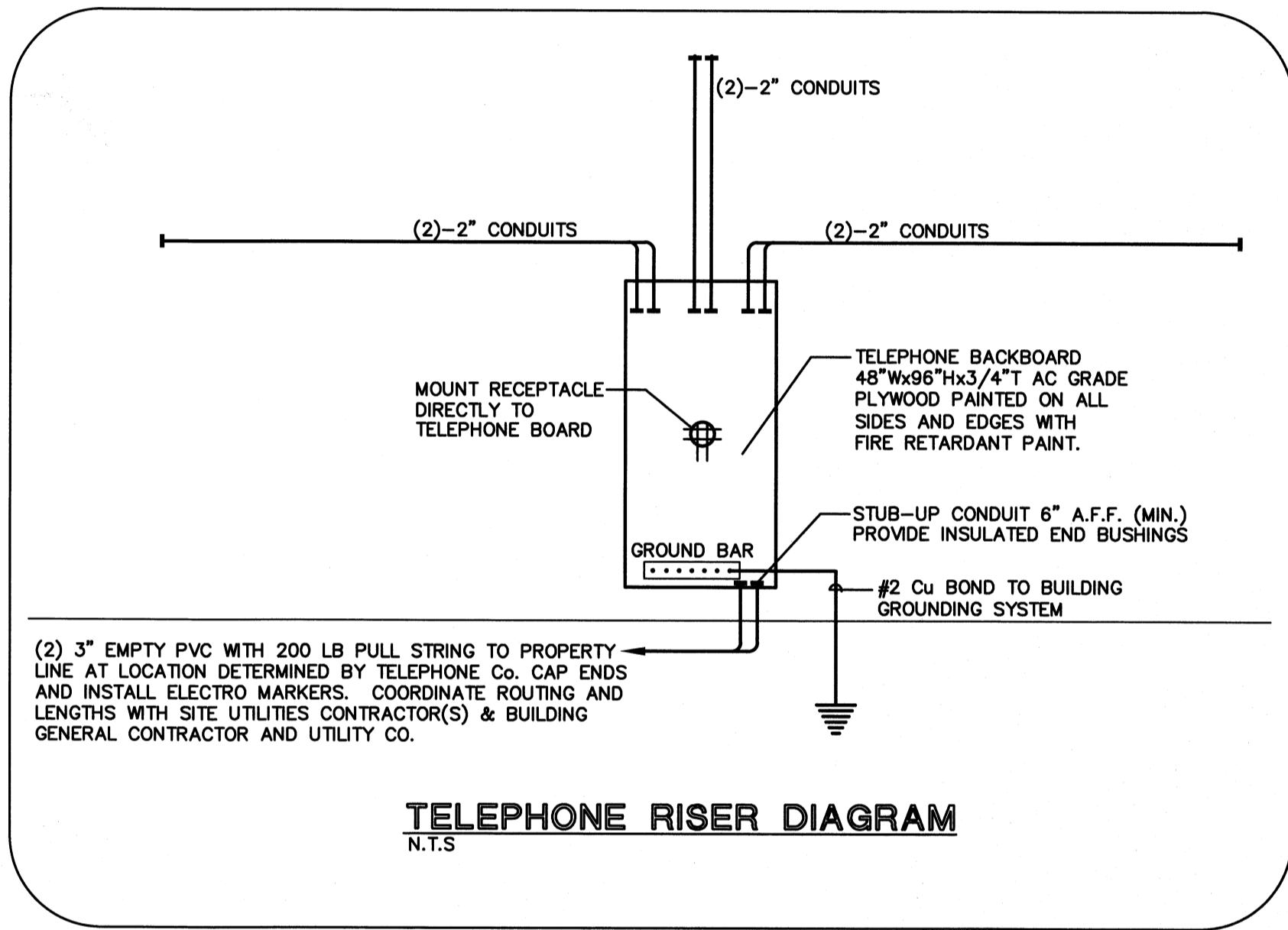
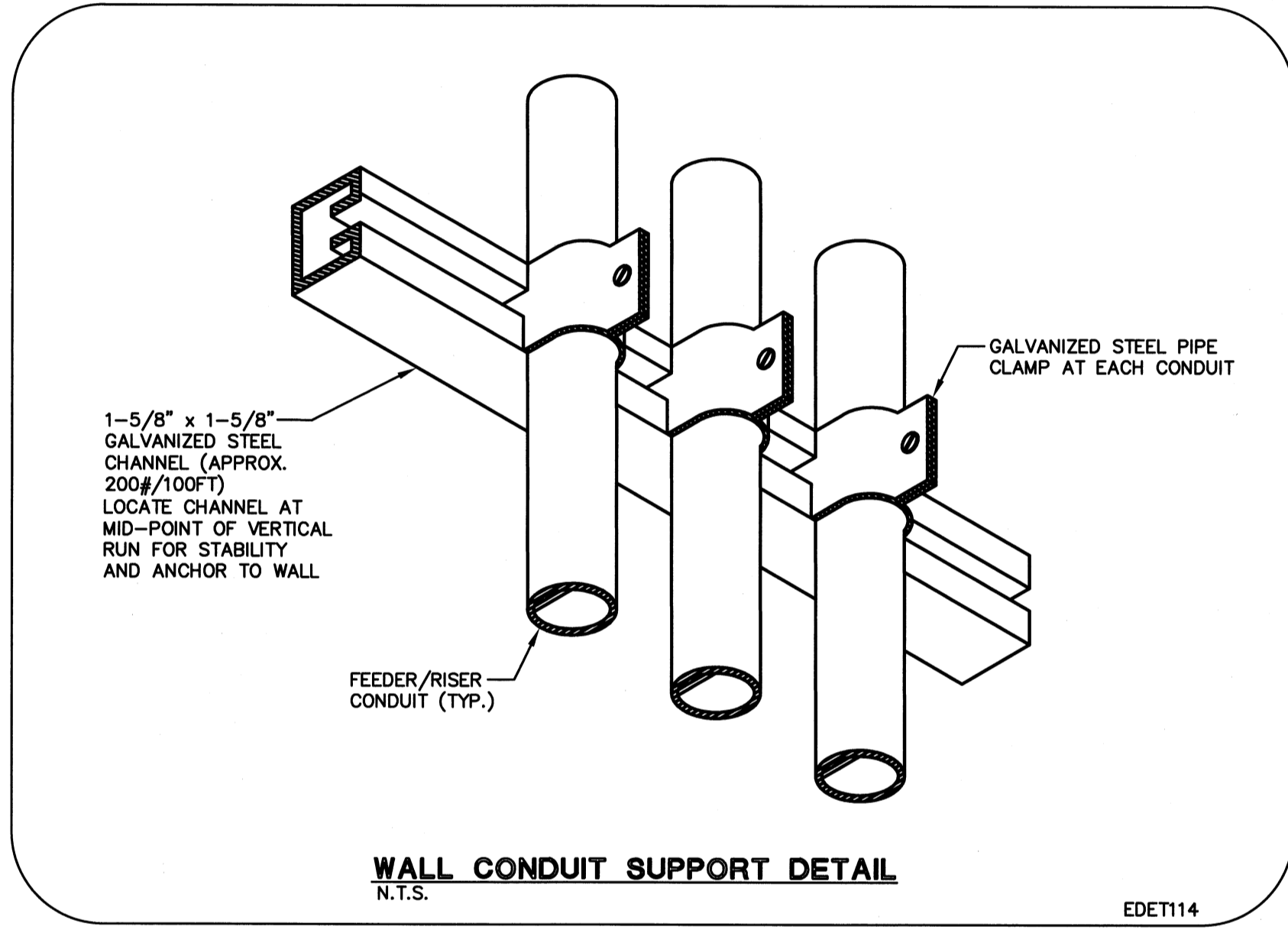
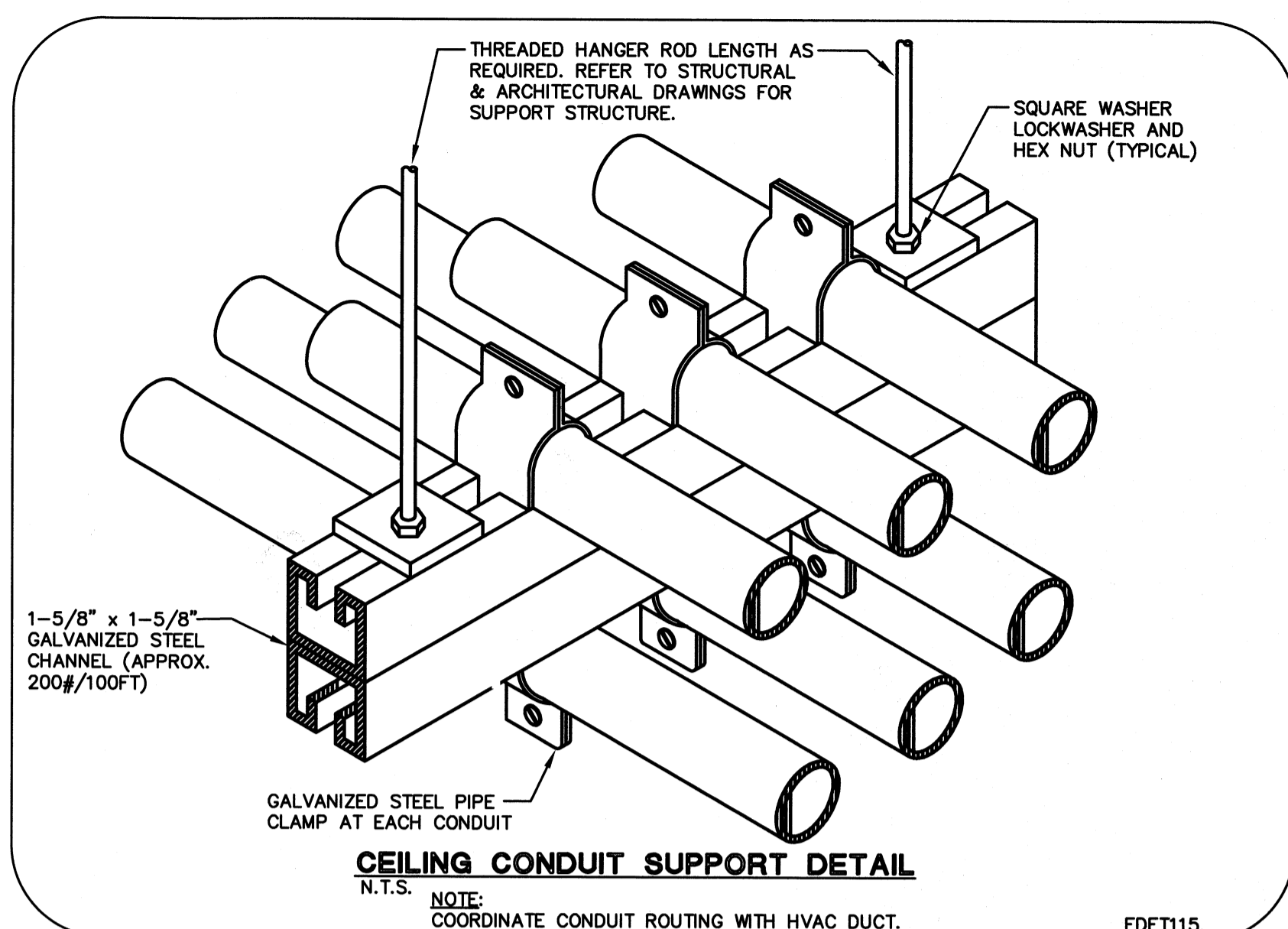
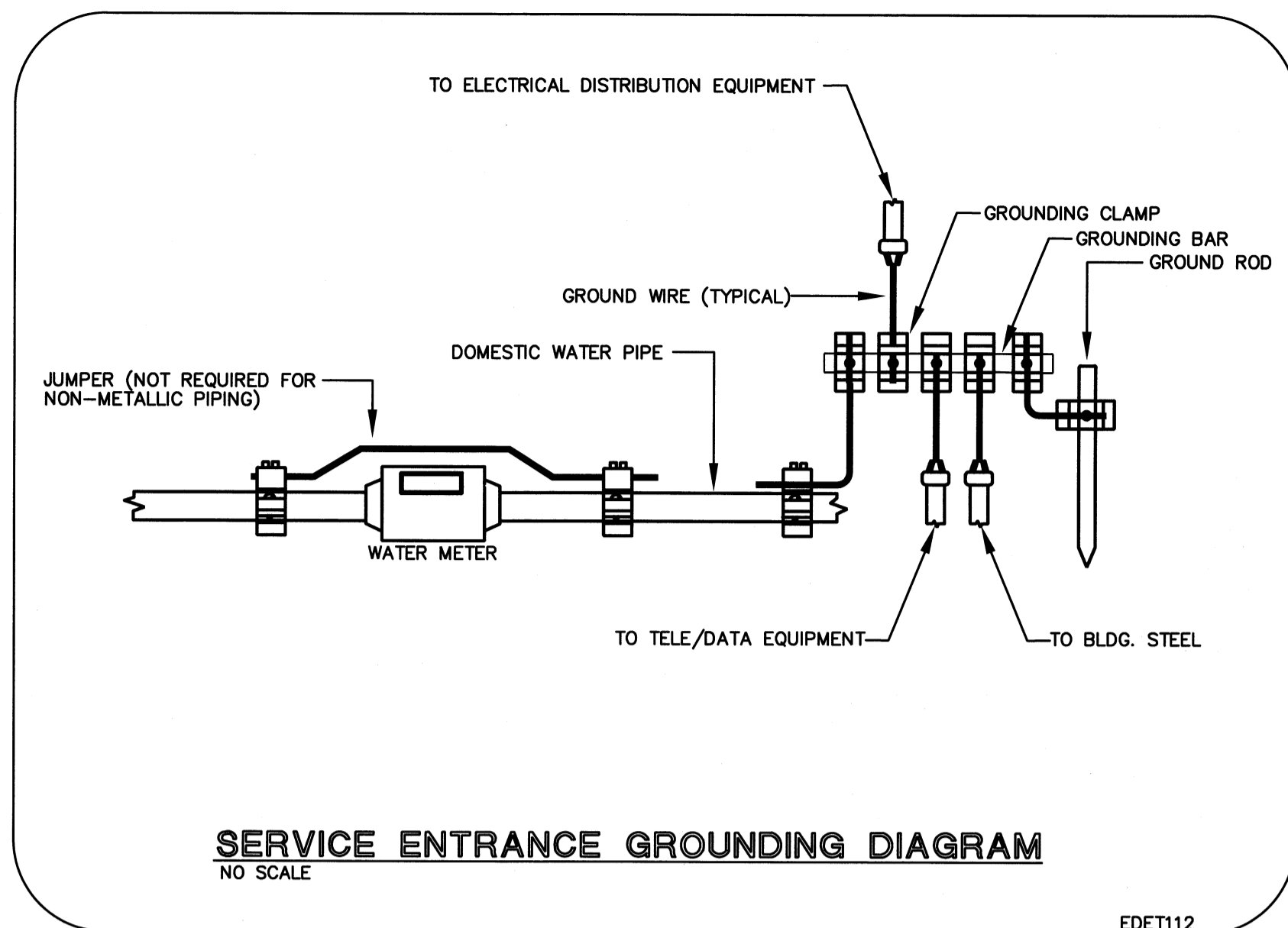
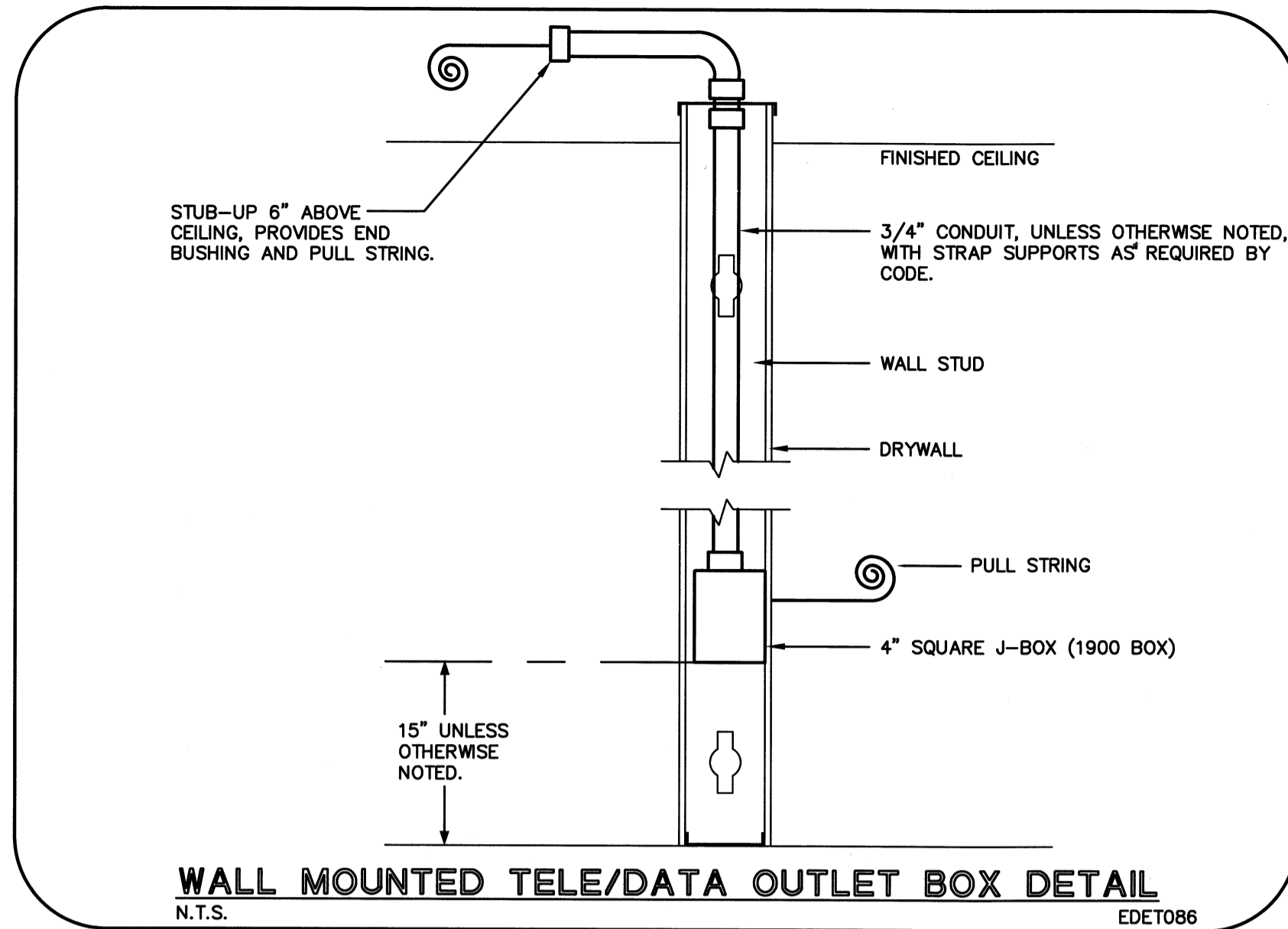
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PANELBOARD SCHEDULE "MDP"																			
BUS (KVA)			LOAD				BUS				LOAD			BUS (KVA)					
A	B	C	WIRE	COND	AMPS	POLE	A	B	C	POLE	AMPS	COND	WIRE	A	B	C			
32.7			PANEL "AC"	2 #12	#4	3"	300	3	1	2	3	400	3"	#3	2 #3/C	PANEL "LA" (2-SECTION)	28.2		
32.7									2	3	4						25.9		
14.4			ELEVATOR MOTOR (4HP)	#2/O	#6	2 1/2"	175	3	7	8	3	60				SPARE	5.8		
14.4									8	9	10						5.8		
14.4									11	12							5.8		
KVA BUS A 51.1 KVA BUS B 78.8 KVA BUS C 82.2 KVA TOTAL 212.0 KVA AMPS BUS A 575.6 AMPS BUS B 656.3 AMPS BUS C 684.7 AMPS TOTAL 672.6 AMPS																			
RATED VOLTAGE: <input checked="" type="checkbox"/> 120/208 <input type="checkbox"/> 120/240 <input type="checkbox"/> 277/480 - 3-PHASE, 4-WIRE BRANCH POLES: <input type="checkbox"/> 12 <input type="checkbox"/> 18 <input type="checkbox"/> 20 <input type="checkbox"/> 24 <input type="checkbox"/> 30 <input type="checkbox"/> 36 <input type="checkbox"/> 42																			
RATED AMPS: <input type="checkbox"/> 400 <input type="checkbox"/> 600 <input type="checkbox"/> 800 <input type="checkbox"/> 1000 CABINET: <input checked="" type="checkbox"/> SURFACE <input type="checkbox"/> FLUSH																			
<input checked="" type="checkbox"/> FULL NEUTRAL BUS <input checked="" type="checkbox"/> GROUND BUS <input checked="" type="checkbox"/> HINGED DOOR <input type="checkbox"/> KEYPAD DOOR LATCH ENCLOSURE TYPE: NEMA-1																			
BRANCHES DEVICES: <input checked="" type="checkbox"/> FUSED <input checked="" type="checkbox"/> CIRCUIT BREAKER																			
<input checked="" type="checkbox"/> MAIN LUGS ONLY MAIN 300 AMPS <input checked="" type="checkbox"/> BREAKER <input type="checkbox"/> FUSED SWITCHED TO BE GFCI BREAKERS																			
ALL BREAKERS MUST BE RATED TO INTERRUPT A SHORT CIRCUIT CURRENT OF 22,000 AMPS SYMMETRICAL.																			
ACCEPTABLE MANUFACTURERS: S.O., GE, SIEMENS, OR APPROVED EQUAL.																			
NOTE:																			

PANELBOARD SCHEDULE "AC"																			
BUS (KVA)			LOAD				BUS				LOAD			BUS (KVA)					
A	B	C	WIRE	COND	AMPS	POLE	A	B	C	POLE	AMPS	COND	WIRE	A	B	C			
4.7			RTU-1	#8	#10	3/4"	50	3	1	2	3	60	1 1/4"	#10	#8	RTU-2	4.9		
4.7									3	4							4.9		
4.7									4	5							4.9		
4.9			RTU-3	#8	#10	1 1/4"	60	3	7	8	3	60	1 1/4"	#10	#8	RTU-4	4.9		
4.9									8	9							4.9		
4.9									10	11							4.9		
3.5			RTU-6	#8	#10	3/4"	50	3	13	14	3	50	3/4"	#10	#8	RTU-4	4.7		
3.5									14	15							4.7		
4.7			RTU-7	#8	#10	3/4"	50	3	19	20	1	20	1/2"	#12	#12	W/P GFCI ROOF MTD. RECEPTACLES	0.5		
4.7									20	21						SPARE	0.5		
4.7									21	22						SPARE	0.5		
4.7									22	23						SPARE	0.5		
KVA BUS A 32.7 KVA BUS B 32.7 KVA BUS C 32.7 KVA TOTAL 98.2 KVA AMPS BUS A 272.9 AMPS BUS B 272.9 AMPS BUS C 272.9 AMPS TOTAL 273.6 AMPS																			
RATED VOLTAGE: <input checked="" type="checkbox"/> 120/208 <input type="checkbox"/> 120/240 <input type="checkbox"/> 277/480 - 3-PHASE, 4-WIRE BRANCH POLES: <input type="checkbox"/> 12 <input type="checkbox"/> 18 <input type="checkbox"/> 20 <input type="checkbox"/> 24 <input type="checkbox"/> 30 <input type="checkbox"/> 36 <input type="checkbox"/> 42																			
RATED AMPS: <input type="checkbox"/> 100 <input type="checkbox"/> 225 <input type="checkbox"/> 400 <input type="checkbox"/> 600 CABINET: <input checked="" type="checkbox"/> SURFACE <input type="checkbox"/> FLUSH																			
<input checked="" type="checkbox"/> FULL NEUTRAL BUS <input checked="" type="checkbox"/> GROUND BUS <input checked="" type="checkbox"/> HINGED DOOR <input checked="" type="checkbox"/> KEYPAD DOOR LATCH ENCLOSURE TYPE: NEMA-3R																			
BRANCHES DEVICES: <input checked="" type="checkbox"/> FUSED <input checked="" type="checkbox"/> CIRCUIT BREAKER																			
<input checked="" type="checkbox"/> MAIN LUGS ONLY MAIN 300 AMPS <input checked="" type="checkbox"/> BREAKER <input type="checkbox"/> FUSED SWITCHED TO BE GFCI BREAKER																			
ALL BREAKERS MUST BE RATED TO INTERRUPT A SHORT CIRCUIT CURRENT OF 22,000 AMPS SYMMETRICAL.																			
ACCEPTABLE MANUFACTURERS: S.O., GE, SIEMENS, OR APPROVED EQUAL.																			
NOTE: 3-POLE CIRCUIT BREAKERS SERVING HVAC EQUIPMENT SHALL BE "HACR" TYPE.																			

PANELBOARD SCHEDULE "LA" - SECTION #1																			
BUS (KVA)			LOAD				BUS				LOAD			BUS (KVA)					
A	B	C	WIRE	COND	AMPS	POLE	A	B	C	POLE	AMPS	COND	WIRE	A	B	C			
1.4			INTERIOR LIGHTING - MULTIPURPOSE RM	#12	#12	1/2"	20	1	1	2	1	20	1/2"	#12	#12	INTERIOR LIGHTING - TRACK	1.0		
1.4			INTERIOR LIGHTING - MULTIPURPOSE RM	#12	#12	1/2"	20	1	3	4	1	20	1/2"	#12	#12	INTERIOR LIGHTING - TRACK	1.0		
1.4			INTERIOR LIGHTING - MULTIPURPOSE RM	#12	#12	1/2"	20	1	5	6	1	20	1/2"	#12	#12	INTERIOR LIGHTING - TRACK	1.0		
0.5			EM/EXIT LIGHTING - MULTIPURPOSE RM	#12	#12	1/2"	20	1	7	8	1	20	1/2"	#12	#12	INTERIOR LIGHTING - TRACK	1.0		
0.3			EXTERIOR LIGHTING - POLE MTD.	#12	#12	1/2"	20	1	9	10	1	20	1/2"	#12	#12	INTERIOR LIGHTING - TRACK	1.0		
1.0			EXTERIOR LIGHTING - WALL MTD.	#12	#12	1/2"	20	1	11	12	1	20	1/2"	#12	#12	INTERIOR LIGHTING - TRACK	1.0		
0.2			EXTERIOR LIGHTING - TIME CLOCK	#12	#12	1/2"	20	1	13	14	1	20	1/2"	#12	#12	INTERIOR LIGHTING - TRACK	1.0		
1.6			GENERAL RECEPTACLES - DISPLAY AREA	#12	#12	1/2"	20	1	15	16	1	20	1/2"	#12	#12	INTERIOR LIGHTING - TRACK	1.0		
0.6			GENERAL RECEPTACLES - CORR. & R.R.	#12	#12	1/2"	20	1	17	18	1	20	1/2"	#12	#12	INTERIOR LIGHTING - TRACK	1.0		
1.0			APPLIANCE RECEPTACLES - BREAK RAL	#12	#12	1/2"	20	1	19	20	1	20	1/2"	#12	#12	INTERIOR LIGHTING - TRACK & SCONES	1.0		
1.0			APPLIANCE RECEPTACLES - BREAK RAL	#12	#12	1/2"	20	1	21	22	1	20	1/2"	#12	#12	EM/EXIT LIGHTING - DISPLAY AREA	0.6		
1.6			GENERAL RECEPT. - BRK. RM. & INCLUB.	#12	#12	1/2"	20	1	23	24	1	20	1/2"	#12	#12	INTERIOR LIGHTING - CORR. & R.R.	0.6		
1.2			REFRIGERATOR - BREAK RM.	#12	#12	1/2"	20	1	25	26	1	20	1/2"	#12	#12	INTERIOR LIGHTING - INCLUB. & BRK.RM.	0.6		
0.8			GENERAL RECEPTACLES - STORAGE	#12	#12	1/2"	20	1	27	28	1	20	1/2"	#12	#12	INTERIOR LIGHTING - OFFICES & CLASSRM	0.6		
1.8			COMPUTER RECEPTACLES - INCUBATOR	#12	#12	1/2"	20	1	29	30	1	20	1/2"	#12	#12	INTERIOR LIGHTING - 1st FL. CORR.	1.3		
1.0			GENERAL RECEPTACLES - CLASS RM.	#12	#12	1/2"	20	1	31	32	1	20	1/2"	#12	#12	INTERIOR LIGHTING - 1st FL. STUDIOS	1.3		
1.2			GENERAL RECEPTACLES - OFFICES	#12	#12	1/2"	20	1	33	34	1	20	1/2"	#12	#12	INTERIOR LIGHTING - 1st FL. STUDIOS	1.3		
1.2			EWG - GFCI RECEPTACLES	#12	#12	1/2"	20	1	35	36	1	20	1/2"	#12	#12	INTERIOR LIGHTING - 2nd FL. CORR.	0.5		
0.5			ELEVATOR PIT - RECEPTACLE & LIGHT	#12	#12	1/2"	20	1	37	38	1	20	1/2"	#12	#12	INTERIOR LIGHTING - 2nd FL. STUDIOS	1.3		
0.8			GENERAL RECEPTACLES - CORR. JAN.	#12	#12	1/2"	20	1	39	40	1	20	1/2"	#12	#12	INTERIOR LIGHTING - 2nd FL. STUDIOS	1.3		
1.6			SPARE				20	1	41	42	1	20				SPARE	1.6		
KVA BUS A 13.0 KVA BUS B 13.9 KVA BUS C 16.0 KVA TOTAL 42.8 KVA AMPS BUS A 109.2 AMPS BUS B 116.5 AMPS BUS C 132.2 AMPS TOTAL 119.9 AMPS																			
RATED VOLTAGE: <input checked="" type="checkbox"/> 120/208 <input type="checkbox"/> 120/240 <input type="checkbox"/> 277/480 - 3-PHASE, 4-WIRE BRANCH POLES: <input type="checkbox"/> 12 <input type="checkbox"/> 18 <input type="checkbox"/> 20 <input type="checkbox"/> 24 <input type="checkbox"/> 30 <input type="checkbox"/> 36 <input type="checkbox"/> 42																			
RATED AMPS: <input type="checkbox"/> 100 <input type="checkbox"/> 225 <input type="checkbox"/> 400 <input type="checkbox"/> 600 CABINET: <input checked="" type="checkbox"/> SURFACE <input type="checkbox"/> FLUSH																			
<input checked="" type="checkbox"/> FULL NEUTRAL BUS <input checked="" type="checkbox"/> GROUND BUS <input checked="" type="checkbox"/> HINGED DOOR <input checked="" type="checkbox"/> KEYPAD DOOR LATCH ENCLOSURE TYPE: NEMA-1																			
BRANCHES DEVICES: <input checked="" type="checkbox"/> FUSED <input checked="" type="checkbox"/> CIRCUIT BREAKER (BOLT-IN)																			
<input type="checkbox"/> MAIN LUGS ONLY MAIN AMPS <input type="checkbox"/> BREAKER <input type="checkbox"/> FUSED SWITCHED TO BE GFCI BREAKERS																			
ALL BREAKERS MUST BE RATED TO INTERRUPT A SHORT CIRCUIT CURRENT OF 10,000 AMPS SYMMETRICAL.																			
ACCEPTABLE MANUFACTURERS:																			
NOTE:																			

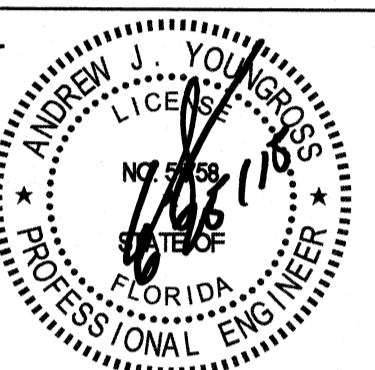
PANELBOARD SCHEDULE "LA" - SECTION #2																			
BUS (KVA)			LOAD				BUS				LOAD			BUS (KVA)					
A	B	C	WIRE	COND	AMPS	POLE	A	B	C	POLE	AMPS	COND	WIRE	A	B	C			
1.2			GENERAL RECEPTACLES - MULTIPURPOSE	#12	#12	1/2"	20	1	43	44	1	20	1/2"	#12	#12	GENERAL RECEPTACLES - 1st FL. STUDIO	1.4		
1.2			GENERAL RECEPTACLES - 2nd FL. STUDIO	#12	#12	1/2"	20	1	45	46	1	20	1/2"	#12	#12	GENERAL RECEPTACLES - 1st FL. STUDIO	1.4		
1.4			GENERAL RECEPTACLES - 2nd FL. STUDIO	#12	#12	1/2"	20	1	47	48	1	20	1/2"	#12	#12	GENERAL RECEPTACLES - 1st FL. STUDIO	1.4		
1.4			GENERAL RECEPTACLES - 2nd FL. STUDIO	#12	#12	1/2"	20	1	49	50	1	20	1/2"	#12	#12	GENERAL RECEPTACLES - 1st FL. STUDIO	1.4		
1.4			GENERAL RECEPTACLES - 2nd FL. STUDIO	#12	#12	1/2"	20	1	51	52	1	20	1/2"	#12	#12	GENERAL RECEPTACLES - 1st FL. STUDIO	1.4		
1.0			GENERAL RECEPTACLES - 2nd FL. STUDIO	#12	#12	1/2"	20	1	53	54	1	20	1/2"	#12	#12	GENERAL RECEPTACLES - MULTIPURPOSE	1.4		
0.5			RRE ALARM PANEL POWER	#12	#12	1/2"	20	1	57	58						W/H-1 (JANITOR'S CLOSET)	4.8		
0.5			SECURITY PANEL POWER	#12	#12	1/2"	20	1	59	60	2	60	1 1/4"	#10	#6	W/H-2 (BREAK RM)	4.8		
0.8			TELE / DATA / TV B. BOARD RECEPTACLES	#12	#12	1/2"	20	1	61	62						W/H-3 (HAND DRYER)	1.6		
0.5			ELEVATOR CAB LIGHTING	#12	#12	1/2"	20	1	63	64	1	20	1/2"	#12	#12	HAND DRYER	1.6		
1.6			HAND DRYER	#12	#12	1/2"	20	1	65	66	1	20	1/2"	#12	#12	HAND DRYER	1.6		
1.6			HAND DRYER	#12	#12	1/2"	20	1	67	68	1	20	1/2"	#12	#12	CABINETS CLIPPER	1.2		
1.6			SPARE				20	1	69	70	2	60	1 1/4"	#10	#6	W/H-3 (WOMEN'S RESTROOM)	4.8		
1.6			SPARE				20	1	71	72						W/H-4 (MEN'S RESTROOM)	4.8		
			SPACE				1	73	74	2	60	1 1/4"	#10	#6	W/H-4 (WOMEN'S RESTROOM)	4.8			
			SPACE				1	75	76							SPACE	4.8		
			SPACE</																



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ISSUED FOR :
SPRAB 02/13/2015
BIDS 06/25/2015
PERMIT 06/25/2015
CONSTRUCTION SEAL



PROJECT TITLE
Art Warehouse

313 NE 3rd Street
DeLray Bch, Florida, 33444

REVISIONS	NUM.	DESCRIPTION	DATE

THESE DRAWINGS ARE PREPARED PER ESTABLISHED INDUSTRY STANDARDS AND REPRESENT THE ARCHITECT AND ENGINEERS DESIGN CONCEPT. THEY ARE NOT INTENDED TO PROVIDE EVERY DETAIL OR CONDITION REQUIRED TO CONSTRUCT THE BUILDING. THE CONTRACTOR THROUGH SUBMITTALS AND OTHER COORDINATION EFFORTS IS FULLY RESPONSIBLE FOR PROVIDING A COMPLETE AND OPERATIONAL BUILDING WHETHER INDICATED ON THE PLANS OR NOT.

FILE NUMBER
15009_E
DRAWING TITLE
ELECTRICAL DETAILS

DATE
06/25/2015
DRAWN BY
AA/MT/HL
JOB NUMBER
100701/15009
DRAWING NUMBER

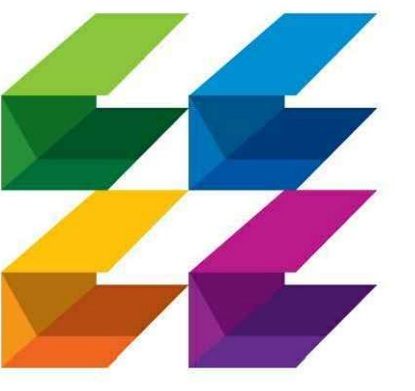
E-4.1

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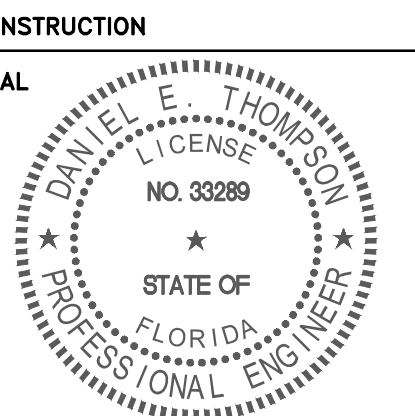
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1	Bldg. Dept. comments	08.21.15

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FILE NUMBER

PLUMBING FIXTURE LIST				
AMERICAN STANDARD, ELKAY & ZURN PRODUCTS ARE LISTED. SUBMIT ALTERNATE FIXTURES FOR APPROVAL. COLOR IS WHITE UNLESS OTHERWISE NOTED. ALL FIXTURES SHALL COMPLY WITH TABLE 604.4 OF F.B.C.-PLUMBING PROVIDE FIXTURES WITH REQUIRED STOP VALVES, FITTINGS, ACCESSORIES, SUPPORTS, ETC. AS REQUIRED FOR A COMPLETE FUNCTIONAL PLUMBING SYSTEM.				
TAG	MFG.	MODEL	REMARKS	
LAV	AMERICAN STANDARD	0497.221 7385.003 .V05	UNDER COUNTER TOP LAVATORY. FAUCET, 0.5 GPM, GRID DRAIN, LESS POP-UP HOLE VANDAL RESISTANT, INDEXED METAL LEVER HANDLE.	
HLAV	AMERICAN STANDARD	0355.012 7385.003 .V05	WALL HUNG HANDICAPPED LAVATORY, WITH CARRIER ZURN Z1231 CONCEALED ARM SYSTEM, PROVIDE OPTION -SL WHEN BACK WALL IS 4" OR LARGER. FAUCET, 0.5 GPM, GRID DRAIN, LESS POP-UP HOLE, VANDAL RESISTANT, INDEXED METAL LEVER HANDLE, PROVIDE TRUEBRO DRAIN/PIPE INSULATION.	
WC	AMERICAN STANDARD	2234.528 #111-1.28	FLUSH VALVE WATER CLOSET (1.28 GPF) MADERA, TOP SPUD ROYAL FLUSH VALVE, OLSONITE #95 SEAT.	
HWC	AMERICAN STANDARD	3043.528 #111-1.28	HANDICAPPED FLUSH VALVE WATER CLOSET (1.6 GPF) MADERA, 17", TOP SPUD ROYAL FLUSH VALVE, OLSONITE #95 SEAT.	
HUR	AMERICAN STANDARD	6501.511 #186-1.0	HANDICAPPED WASHBROOK URINAL, TOP SPUD, 3/4" TOP SPUD, ZURN Z1221 CARRIER, PLATE TYPE SYSTEM. MOUNT RIM AT MAX 17" A.F.F. - ADA COMPLIANT. ROYAL FLUSH VALVE. 1.0 GPF.	
SK-2 W/GD	ELKAY	LR3322 LK1000 BADGER 5	DOUBLE BOWL 33"x22", 3 FAUCET HOLES, SINGLE LEVER FAUCET, ADA COMPLIANT, 1.5 GPM AND 1.0 GPM STRAINER W/ 1-1/2" S.S. TUBES. GARBAGE DISPOSER, 1/2HP, 120V/60HZ/18.	
HI-LO EWC	ELKAY	257655	BRASS FREE, WALL MOUNTED WATER COOLER WITH WATERENTRY FILTER SYSTEM, STAINLESS STEEL. SUPPLY ANY ADDITIONAL WALL CARRIERS REQUIRED FOR COMPLETE INSTALLATION. MUST MEET A.D.A. CODE. 115V, 4.0 AMPS, 60HZ, SINGLE PHASE.	
FD	ZURN	Z415BZ -NH-P	FLOOR DRAIN, DURA COATED CAST IRON BODY WITH BOTTOM OUTLET, POLISHED BRONZE ROUND LEVELING STRAINER TOP, NO HUB, 3"Ø SIZE, 1/2" TRAP PRIMER CONNECTION.	
FD-1	ZURN	Z551 -NH-P-Y	FLOOR DRAIN, DURA COATED CAST IRON BODY WITH INTEGRAL VACUUM BREAKER. 1/2" PIPE SIZE, 1/2" TRAP PRIMER CONNECTION.	
TP	ZURN	Z1022	SANI-GUARD AUTOMATIC TRAP PRIMER, ALL BRONZE BODY WITH INTEGRAL VACUUM BREAKER. 1/2" PIPE SIZE.	
SS	MUSTEE	14CP	MOLDED RESIN CONSTRUCTION, 20 GALLON CAPACITY, 13" DEEP, 6" SWING SPOUT FAUCET WITH AERATOR AND HOSE END. 20" FLEXIBLE SUPPLY LINES. STEEL LEGS WITH ADJUSTABLE LEVELERS. WHITE FINISH.	
PLASTER TRAP	DCA	9520	DENTAL CORPORATION OF AMERICA PLASTER TRAP 3.5 GALLON, TWO WIRE REINFORCED HOSES, ONE PLUMBING ADAPTER, ONE CONTAINER WITH LID HOSE FITTING. TWO HOSE FITTING CAPS FOR DISPOSING.	
HB	ZURN	Z1341-P34	HOSE BIBB W/ VACUUM BREAKER. ROUGH BRONZE.	

PLUMBING LEGEND	
C.O.	CLEAN OUT
C.O.T.G.	CLEAN OUT TO GRADE
CW	DOMESTIC COLD WATER
HW	DOMESTIC HOT WATER
HWR	DOMESTIC HOT WATER RETURN
VTR	VENT THRU ROOF
AAV	AIR ADMITTANCE VALVE
DN	DRAIN
V.I.F.	VERIFY IN FIELD
WHA	WATER HAMMER ARRESTOR- PDI #
SOV	SHUT-OFF VALVE
U.G.	UNDER GROUND
T.P.	TRAP PRIMER
⊙ CEIL.	PLUMBING LINE ROUTED AT CEILING
(E)	EXISTING
A.F.F.	ABOVE FINISHED FLOOR
A.F.G.	ABOVE FINISHED GRADE
⊕	BALL VALVE
⊕	BALL VALVE IN VERTICAL
⊕	HOSE BIBB WITH VACUUM BREAKER
---	DOMESTIC COLD WATER PIPING
---	DOMESTIC HOT WATER PIPING (110°F)
---	CONDENSATE PIPING
---	VENT PIPING
---	SANITARY SEWER PIPING
FM	FORCE MAIN PIPING
○	PIPE DROP DOWN
○	PIPE RISER UP
⊔	CAPPED END OF PIPE
⊔	P-TRAP
⊔	CLEAN OUT
⊔	UNION - SCREWED OR FLANGED
⊔	CONDENSATE PIPE SUPPORT
⊔	FLOOR DRAIN

GENERAL PLUMBING NOTES	
1.	ALL WORK SHALL COMPLY WITH THE 2010 EDITION OF THE FLORIDA PLUMBING, ENERGY CONSERVATION, ACCESSIBILITY AND FUEL GAS CODES, AND ALL LOCAL CODE AMENDMENTS.
2.	DO NOT SCALE DRAWINGS. VERIFY DIMENSIONS IN FIELD PRIOR TO COMMENCEMENT OF WORK. THE DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL LAYOUT OF PLUMBING SYSTEMS.
3.	CONTRACTOR SHALL VISIT THE EXISTING SITE (IF APPLICABLE) PRIOR TO BIDDING AND SHALL INVESTIGATE ALL CONDITIONS THAT AFFECT HIS WORK; VERIFY LOCATIONS, SIZES, DIMENSIONS, AND INVERT ELEVATIONS OF ALL ON-SITE SANITARY SEWERS, STORM DRAINS, WATER MAINS AND NATURAL GAS MAINS, AND MAKE CERTAIN THAT ALL CONNECTIONS CAN BE MADE. THE CONTRACTOR SHALL MAKE THE ARCHITECT/ENGINEER AWARE OF ANY CONFLICTS.
4.	CONTRACTOR SHALL REVIEW ARCHITECTURAL, STRUCTURAL, MECHANICAL AND OTHER DRAWINGS PRIOR TO BID AND SHALL COORDINATE ALL TRADES TO PROVIDE A COMPLETE PRODUCT TO AVOID CONFLICTS BETWEEN THE TRADES, AND TO DETERMINE WHICH TRADE IS TO PERFORM THE NECESSARY WORK. RESOLVE ALL QUESTIONS OR CONFLICTS WITH THE ENGINEER BEFORE ANY EQUIPMENT IS ORDERED, MATERIALS FABRICATED OR SYSTEMS INSTALLED. CONSULT THE ARCHITECT'S DRAWINGS FOR ALL GRADE AND FINISH FLOOR ELEVATIONS.
5.	CONTRACTOR SHALL GUARANTEE THE INSTALLATION AGAINST DEFECTS IN MATERIALS AND WORKMANSHIP WHICH MAY OCCUR UNDER NORMAL USAGE FOR A PERIOD OF ONE YEAR AFTER OWNER'S ACCEPTANCE. DEFECTS SHALL BE PROMPTLY REMEDIATED WITHOUT COST TO THE OWNER.
6.	CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS, FEES, INSPECTION AND TESTS. CONTRACTOR SHALL OBTAIN PERMIT AND APPROVED SUBMITTALS PRIOR TO COMMENCEMENT OF WORK OR ORDERING EQUIPMENT. PLUMBING CONTRACTOR SHALL BE PRESENT FOR ALL INSPECTIONS OF HIS WORK BY REGULATORY AUTHORITIES.
7.	CONTRACTOR SHALL PROVIDE RECORD DRAWINGS TO THE BUILDING OWNER AND ARCHITECT. DRAWINGS SHALL INCLUDE ALL ADDENDUM ITEMS, CHANGE ORDERS, ALTERATIONS, REWORKING, ETC.
8.	CONTRACTOR SHALL PROVIDE INSURANCE FOR PROTECTION AGAINST PUBLIC LIABILITY AND PROPERTY DAMAGE FOR THE DURATION OF THE WORK.
9.	CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR ALL EQUIPMENT AT ONE TIME, BOUND IN THREE-RING BINDERS, INDEXED IN A NEAT AND ORDERLY MANNER. PARTIAL SUBMITTALS WILL NOT BE ACCEPTED. PLUMBING CONTRACTOR SHALL NOT ORDER ANY EQUIPMENT WITHOUT APPROVAL FROM PLUMBING ENGINEER, ARCHITECT, OWNER, AND INTERIOR DESIGNER (IF APPLICABLE).
10.	CONTRACTOR SHALL PROVIDE ACCESS PANELS FOR ALL CONCEALED VALVES. ACCESS PANELS IN RATED WALLS OR CEILINGS MUST MAINTAIN THE SAME RATING AND MUST MATCH THE FINISH OF THE WALL OR CEILING IN WHICH IS INSTALLED.
11.	TRENCHING, BACKFILL AND CONCRETE WORK ASSOCIATED WITH PLUMBING SHALL BE PERFORMED IN ACCORDANCE WITH THE APPLICABLE SPECIFICATIONS.
12.	CONTRACTOR SHALL PROVIDE AND INSTALL ALL SLEEVES THROUGH FLOORS AND WALLS. PIPING THROUGH FLOORS SHALL BE SLEEVED, CAULKED AND FLASHED TO PREVENT LEAKAGE. SEAL ALL WALL PENETRATIONS WATERTIGHT WITH SILICONE CAULKING AND BACKER ROD, OR COVERED WITH ESCUTCHEON PLATES. IT SHALL ALSO BE THE RESPONSIBILITY OF THE PLUMBING SUBCONTRACTOR TO PROVIDE ALL LAYOUT, SLEEVING, CONCRETE CUTTING AND PATCHING, AND CONCRETE COREBORING AS REQUIRED TO COMPLETE ALL OF PLUMBING WORK. ALL LAYOUT OF REQUIRED CONCRETE CUTTING MUST BE APPROVED BY THE GENERAL CONTRACTOR PRIOR TO PLUMBING SUBCONTRACTOR'S EXECUTION OF SAME.
13.	PIPE PENETRATIONS THROUGH FIRE RATED WALLS OR FLOORS SHALL HAVE EQUIVALENTLY RATED SLEEVES AND SHALL BE SEALED AND FIRE CAULKED WITH A UL LISTED FIRE STOPPING SYSTEM INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S LISTED DETAILS AND SPECS.
14.	LAYOUT PIPES TO FALL (CONCEALED) WITHIN PARTITION WALL OR CHASES. NOTIFY ARCHITECT IF ADDITIONAL WALL SPACE IS REQUIRED. COORDINATE PIPE DROP WITH FOOTINGS, STRUCTURAL STEEL, FIRE RATED WALLS, WHICH MAY FALL BELOW PARTITION WALL OR CHASE. MAKE NECESSARY ADJUSTMENT TO PIPING TO AVOID CONFLICT WITH BUILDING OBSTRUCTIONS. CONSULT WITH ARCHITECT AND CONTRACT DOCUMENTS FOR LOCATION OF ALL RATED WALLS, CEILINGS, FLOORS AND ROOF. FURNISH AND INSTALL APPROPRIATE AND APPROVED FIRE BARRIER AT ALL PENETRATIONS. INSTALLATION SHALL BE PER MANUFACTURER'S SPECIFICATIONS.
15.	NO COMBUSTIBLE MATERIAL TO BE USED IN MECHANICAL ROOM(S) OR IN CEILING SPACE(S) WHERE USED AS RETURN AIR PLENUMS.
16.	NO WATER, SANITARY OR DRAINAGE PIPING PERMITTED IN ELECTRICAL OR ELEVATOR EQUIPMENT ROOMS.
17.	CONTRACTOR SHALL PROVIDE PIPE HANGERS FOR ALL PIPING. HANGER RODS AND DEVICES SHALL BE USED FOR SUPPORT OF ALL PIPING. MAKESHIFT DEVICES WILL NOT BE ACCEPTABLE. HANGER DEVICES SHALL BE SIZED TO FIT AROUND INSULATION. PROVIDE GALVANIZED STEEL SADDLES AS REQUIRED. PIPING SUPPORT SPACING SHALL COMPLY WITH THE FLORIDA PLUMBING CODE-2010.
18.	SANITARY, VENT PIPING AND DOMESTIC WATER PIPING SHALL BE TESTED IN ACCORDANCE WITH SECTION 312 OF THE FLORIDA PLUMBING CODE-2010.
19.	DIELECTRIC COUPLINGS ARE REQUIRED BETWEEN ALL DISSIMILAR METAL IN PIPING AND EQUIPMENT CONNECTIONS.
20.	IN AREAS OF EXPOSED CMU, ALL PIPING SHALL BE WITHIN CMU WALL. NO EXPOSED PIPING SHALL BE ALLOWED. COORDINATION WITH OTHER TRADES SHALL BE THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR.
21.	MAINTAIN A MINIMUM SEPARATION OF 5 FEET BETWEEN POTABLE WATER PIPE AND BUILDING SEWER. WHEN THERE IS LESS THAN 5 FEET OF SEPARATION MAINTAIN A MINIMUM OF 12 INCHES BETWEEN INVERT OF POTABLE WATER AND TOP OF SEWER.
22.	MATERIALS AND EQUIPMENT SHALL BE NEW OF AMERICAN MANUFACTURER, FREE OF DEFECTS AND IT SHALL MEET THE REQUIREMENTS OF THE NATIONAL BOARD OF FIRE UNDERWRITERS, ASTM & ANSI SPECIFICATIONS WHERE SUCH EXIST, STANDARD AND LOCAL BUILDING CODES, AND SHALL BE SUITABLE FOR THE USE INTENDED.
23.	PLUMBING PIPING SHALL BE LABELED WITH CONTENT DESCRIPTION AND FLOW DIRECTION.
24.	CONTRACTOR SHALL PROVIDE AN ELEVATOR PIT SUMP PUMP AS SHOWN ON THE DRAWINGS AND SPECIFICATIONS. ELEVATOR PIT SUMP PUMP SHALL BE IN ACCORDANCE WITH FLORIDA ELEVATOR SAFETY TECHNICAL ADVISORY COUNCIL-STANDARD FOR SUMP PUMP INSTALLATION AND 2007 FLORIDA BUILDING CODE-PLUMBING SECTIONS 301.6-EXCEPTION, 712.3 AND 1003.4-EXCEPTION.

WATER PIPING SYSTEM NOTES	
1.	WATER PIPING SHALL BE: COPPER PIPING (ABOVE GRADE): ASTM B88, TYPE L, HARD DRAWN. FITTINGS: (a) SOLDERED: ANSI/ASME B16.23, CAST BRASS OR ANSI/ASME B16.29, WROUGHT COPPER. (b) PRESSED: ASME B16.18 OR ASME B16.22, COPPER PRESS FITTING WITH EPDM O-RING AND SMART CONNECT (SC FEATURE). JOINTS: (a) SOLDERED: ANSI/ASTM B32, LEAD-FREE SOLDER, GRADE 95TA. (b) PRESSED: ASME B16.18 OR ASME B16.22, COPPER PRESS FITTING WITH EPDM O-RING AND SMART CONNECT (SC FEATURE). COPPER PIPING (UNDERGROUND BUILDING EXTERIOR): ASTM B88, TYPE K, HARD DRAWN. FITTINGS: (a) SOLDERED: ANSI/ASME B16.29, WROUGHT COPPER. (b) PRESSED: ASME B16.18 OR ASME B16.22, COPPER PRESS FITTING WITH EPDM O-RING AND SMART CONNECT (SC FEATURE). COPPER PIPING (UNDERGROUND UNDER BUILDING SLAB): ASTM B88, TYPE K, SOFT DRAWN. FITTINGS: (a) SOLDERED: ANSI/ASME B16.29, WROUGHT COPPER. (b) PRESSED: ASME B16.18 OR ASME B16.22, COPPER PRESS FITTING WITH EPDM O-RING AND SMART CONNECT (SC FEATURE). JOINTS: (a) SOLDERED: ANSI/ASTM B32, LEAD-FREE SOLDER, GRADE 95TA. (b) PRESSED: ASME B16.18 OR ASME B16.22, COPPER PRESS FITTING WITH EPDM O-RING AND SMART CONNECT (SC FEATURE). FITTINGS AND JOINTS SHALL COMPLY WITH SECTIONS 605.14.1 THROUGH 605.14.5 OF FBC-PLUMBING. WATER VALVES 2" AND SMALLER SHALL BE A BRONZE BALL VALVE, TWO-PIECE BODY, 600 PSI WORKING PRESSURE, NIBCO MODEL S-585-80-LF (NSF-61 LEAD FREE) OR APPROVED EQUAL. THE USE OF GATE VALVES SHALL BE PROHIBITED.
3.	NEW OR REPAIRED POTABLE WATER SYSTEMS SHALL BE PURGED OF DELETERIOUS MATTER AND WHERE REQUIRED BY THE ADMINISTRATIVE AUTHORITY, DISINFECTED PRIOR TO UTILIZATION. THE METHOD TO BE FOLLOWED SHALL BE AS PER SECTION 610 OF FPC-2010.
4.	ALL FIXTURES MUST BE PROVIDED WITH READILY ACCESSIBLE STOPS AND APPROPRIATELY MARKED ACCESS PANELS. COORDINATE LOCATIONS WITH GENERAL CONTRACTOR PRIOR TO INSTALLATION.
5.	PROVIDE ANGLE STOPS ON ALL WATER SERVICE LINES TO FIXTURES FOR INDIVIDUAL SHUT-OFF.
6.	PROVIDE A WATER HAMMER ARRESTOR ON ALL WATER SUPPLY LINES SERVING FLUSH VALVE PLUMBING FIXTURES, SOLENOID VALVES, ETC. INCLUDING OTHER FIXTURES OR EQUIPMENT WITH QUICK CLOSING VALVES (ICE MAKERS, & DISHWASHERS). USE SIOUX CHIEF SHOCK ARRESTORS, P.D.I.#A ; 1/2"CONN., P.D.I.#B : 3/4"CONN., P.D.I.#C : 1"CONN., APPROVED FOR INSTALLATION WITH NO ACCESS PANEL REQUIRED. CONFORMS WITH ANSI/ASSE 1010 STANDARDS.
7.	PROVIDE AUTOMATIC TRAP PRIMER ON COLD WATER CONNECTION TO LAVATORY FIXTURE WITH COLD WATER TUBE TO FLOOR DRAIN AUXILIARY INLET FITTING. FLOOR DRAINS IN AREAS WHERE A LAVATORY (TRAP PRIMER) CONNECTION IS NOT AVAILABLE, PROVIDE A TRAP PRIMER DISTRIBUTION UNIT PRECISION PLUMBING PRODUCTS, MODEL PR-500 (OR APPROVED EQUAL) AND A SHUT-OFF VALVE IN ACCESSIBLE AREA.
8.	INSTALL VACUUM BREAKERS ON ALL HOSE BIBBS AND HYDRANTS.
9.	ALL OUTSIDE HOSE BIBBS SHALL BE INSTALLED 2'-0" ABOVE FINISHED GRADE UNLESS OTHERWISE NOTED.
10.	DO NOT PENETRATE DOMESTIC WATER PIPING USED FOR ELECTRICAL GROUNDING THROUGH AND INTO THE ELECTRICAL ROOMS. TERMINATE THE PIPE OUTSIDE OF THE ELECTRICAL ROOM AND PROVIDE GROUND STRAPS.
11.	ESCUTCHEONS SHALL BE CHROME PLATED BRASS WITH LOCKING SCREWS WHERE PIPES PASS THROUGH FINISHED WALLS.

SANITARY, VENT & CONDENSATE DRAIN SYSTEMS	
1.	SANITARY, VENT, STORM DRAIN AND CONDENSATE DRAIN PIPING SHALL BE SOLID WALL SCHEDULE 40 PVC COMPLIANT WITH ASTM D 2665. PROVIDE 3/4" THICK AP/ARMAFLEX SS (SELF-SEAL) INSULATION FOR ALL HORIZONTAL ABOVE-GRADE CONDENSATE PIPING. INSTALLATION SHALL BE IN STRICT CONFORMANCE WITH MANUFACTURER'S REQUIREMENTS. EQUIPMENT ROOMS.
2.	CONDENSATE DRAIN PIPING SHALL BE SOLID WALL SCHEDULE 40 PVC COMPLIANT WITH ASTM D 2665 BELOW GRADE AND HUBLESS CAST IRON OR TYPE "DMV" COPPER ABOVE SLAB. PROVIDE 3/4" THICK AP/ARMAFLEX SS (SELF-SEAL) INSULATION FOR ALL HORIZONTAL ABOVE-GRADE PIPING. SCHEDULE 40 PVC MAY BE USED IF NOT IN A RETURN AIR PLENUM RATED SPACE. ALL CONDENSATE PIPING ABOVE ROOF DECK SHALL BE SCHEDULE 40 PVC WITH NO INSULATION. PVC PIPING EXPOSED TO SUNLIGHT SHALL BE COATED WITH AN ULTRA VIOLET INHIBITING MATERIAL. INSTALLATION SHALL BE IN STRICT CONFORMANCE WITH MANUFACTURER'S REQUIREMENTS.
3.	MAINTAIN A MINIMUM SLOPE OF 1/4" PER FOOT FOR DRAIN PIPING 2-1/2" OR LESS, AND 1/8" PER FOOT FOR PIPES 3" AND LARGER.
4.	ALL DRAINAGE P-TRAPS FOR SINKS, LAVATORIES, AND WATER COOLERS SHALL BE OF A SLIP-JOINT TYPE.
5.	ALL VENT AND BRANCH VENT PIPES SHALL BE SO GRADED AND CONNECTED AS TO DRAIN BACK TO THE DRAINAGE PIPE BY GRAVITY.
6.	EVERY DRY VENT SHALL RISE VERTICALLY TO A MINIMUM OF 6 INCHES ABOVE THE FLOOD LEVEL RIM OF THE HIGHEST TRAP OR TRAPPED FIXTURE BEING VENTED.
7.	VENT FLASHING AND COUNTER FLASHING SHALL BE COMPATIBLE TO ROOFING SYSTEM.
8.	A CLEANOUT SHALL BE PROVIDED AT THE BASE OF EACH SOIL, WASTE AND STORM STACK.
9.	ALL (VTR'S) VENT THRU ROOF PENETRATIONS INDICATED ON PLANS ARE PRELIMINARY. FINAL LOCATIONS SHALL BE COORDINATED WITH ALL TRADES. ALL VTR'S SHALL BE A MINIMUM OF 10'-0" FROM ALL FRESH AIR INTAKE OPENINGS.

PLUMBING FIXTURE SCHEDULE								
MARK	FIXTURE	PIPE SIZE			FIXTURE UNIT	QTY	TOTAL FIXTURE UNIT	REMARKS
		C.W.	H.W.	WASTE				
HLAV	LAVATORY (HANDICAPPED)	1/2"	2"	1-1/4"	1	3	3	
LAV	LAVATORY	1/2"	2"	1-1/4"	1	4	4	
HWC	WATER CLOSET (HANDICAPPED)	1"	3"	INT.	4	3	12	3x4
WC	WATER CLOSET	1"	3"	INT.	4	4	16	3x4
HUR	URINAL (HANDICAPPED)	3/4"	2"	INT.	4	1	4	
HI-LO EWC	HI-LO ELECTRIC WATER COOLER	1/2"	2"	1-1/2"	0.5	2	1	
SS	SERVICE SINK	1/2"	2"	1-1/2"	2	13	24	
	MOP SINK	1/2"	3"	3"	2	1	2	
	FUTURE SERVICE SINK	1/2"	2"	FUT.	2	11	22	
SK-2	2 BOWL SINK	1/2"	2"	1-1/2"	2	1	2	
FD	FLOOR DRAIN	-	3"	3"	0	3	0	1/2" T.P.
HB	HOSE BIBB	3/4"	-	-	0	2	0	
TOTAL							90	

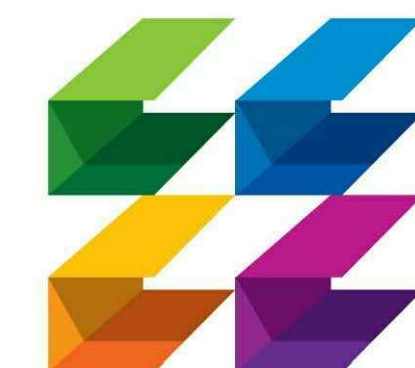
NOTES:
ALL FIXTURES SHALL COMPLY WITH TABLE 604.4 (MAX. FLOW RATES), TABLE 604.5 (MIN. SIZES OF WATER SUPPLY), & TABLE 709.1 (MIN. SIZE OF TRAP) OF F.B.C.-PLUMBING WATER METER AND BACKFLOW PREVENTOR SHALL BE SIZED BY THE CITY OF DELRAY BEACH. WATER METER AND BACKFLOW PREVENTOR SHALL BE PROVIDED AND INSTALLED BY PLUMBING CONT.

PLUMBING DRAWING LIST	
DRAWING NUMBER	DRAWING NAME
P0.1	PLUMBING NOTES, LEAD END AND SCHEDULE
P1.1	FIRST FLOOR PLAN-PLUMBING
P1.2	2ND FLOOR PLAN-PLUMBING
P2.1	PLUMBING ISOMETRIC DIAGRAMS
P3.1	PLUMBING DETAILS

TYEC HVAC PLUMBING ELECTRICAL
THOMPSON & YOUNGROSS
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DRAWING TITLE
PLUMBING NOTES
DATE 06/25/2015 DRAWN BY AA/MT/HL
JOB NUMBER 100701/15009
DRAWING NUMBER
P0.1

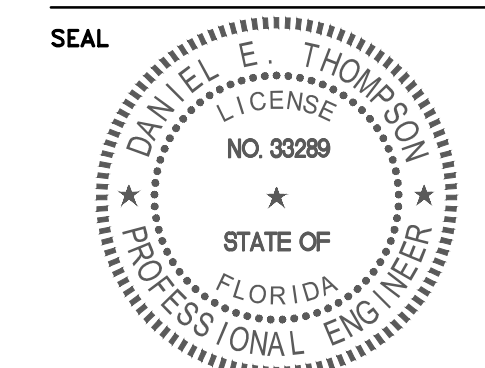


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ISSUED FOR :
SPRAB 02/13/2015
BIDS 06/25/2015
PERMIT 06/25/2015

CONSTRUCTION



PROJECT TITLE
Art Warehouse

313 NE 3rd Street
Delray Bch, Florida, 33444

REVISIONS	NUM	DESCRIPTION	DATE
	1	Bldg. Dept. comments	08.21.15
	2	Bldg. Dept. comments	10.26.15

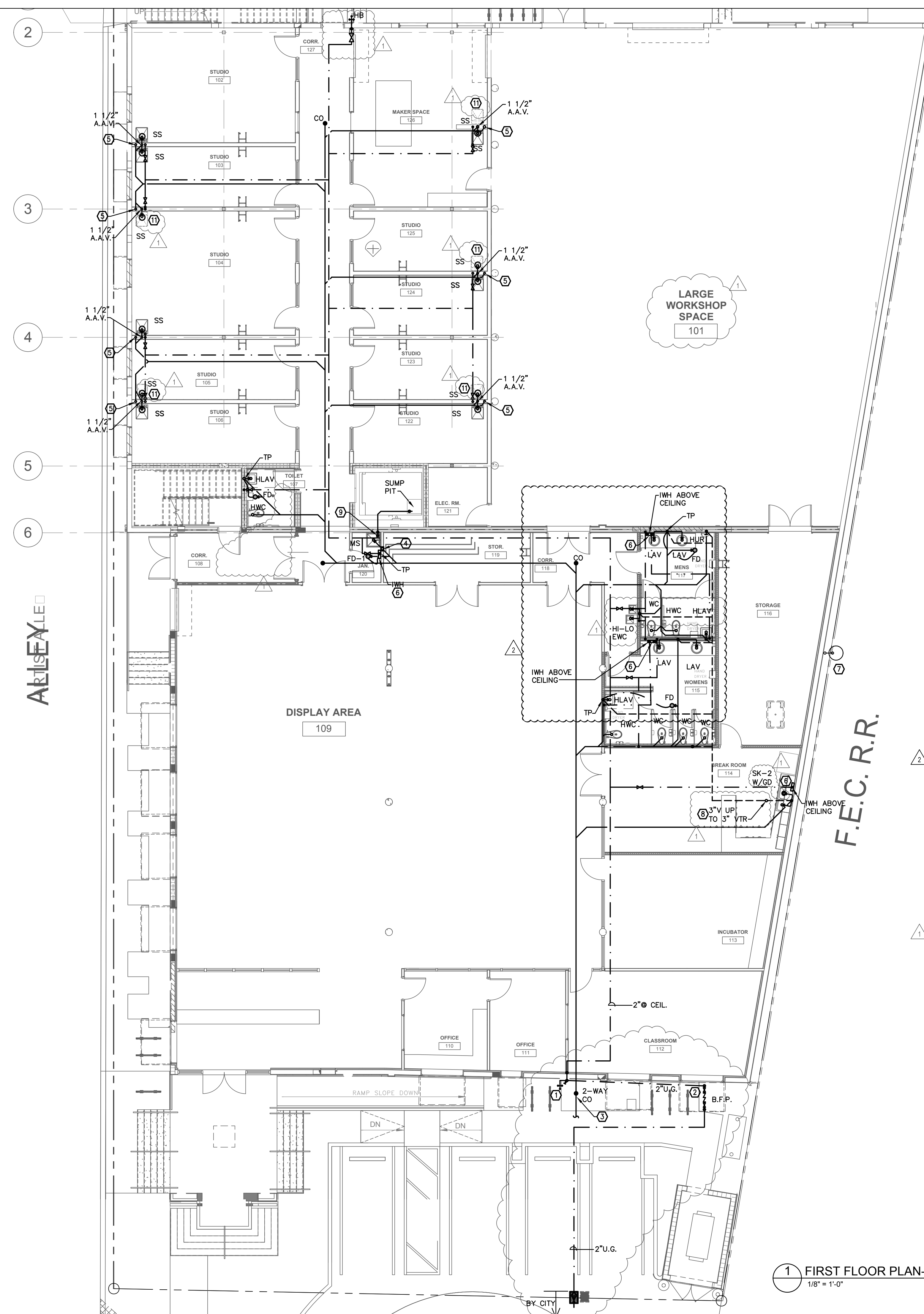
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FILE NUMBER

DRAWING TITLE
FIRST FLOOR PLAN
PLUMBING

DATE 06/25/2015 DRAWN BY AA/MT/HL
JOB NUMBER 100701/15009
DRAWING NUMBER

P1.1



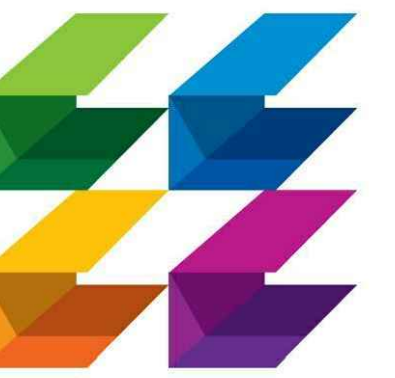
PLAN KEY NOTES	
①	PROVIDE MAIN SHUT-OFF VALVE (BALL VALVE) IN VERTICAL RISER. PROVIDE A LOCK-OUT DEVICE AT VALVE.
②	CONNECT TO NEW WATER METER AND BACKFLOW PREVENTOR. COORDINATE WITH THE CITY OF DELRAY BEACH ENGINEERING DEPARTMENT FOR FINAL SIZE AND LOCATION.
③	4" SAN LINE AT 1/8" FT SLOPE TO CONNECT TO EXISTING SANITARY LATERAL. CONTRACTOR SHALL VERIFY IN FIELD EXACT SIZE, LOCATION AND INVERT ELEVATION PRIOR TO COMMENCING ANY WORK. APPROXIMATE INVERT ELEVATION IS 48" AT CLEANOUT.
④	1 1/2" A.A.V. PROVIDE ACCESS PANEL SIOUX CHIEF 69-11P.
⑤	2" SANITARY RISER FROM FLOOR ABOVE. PROVIDE WITH A CLEANOUT AT THE BASE.
⑥	PROVIDE THERMOSTATIC TEMPERATURE CONTROLLED INSTANTANEOUS WATER HEATER WITH INTEGRATED MIXING VALVE EEMAX ACCUMIX SERIES MT010240T 240V, 9.5KW, 1.5GPM.
⑦	TERMINATE 2" CD DRAIN OVER SOAKAGE PIT WITH AN AIR GAP.
⑧	3" VENT UP TO 3" VTR. TERMINATE MINIMUM 10 FEET AWAY FROM ANY AIR INTAKE.
⑨	ELEVATOR SUMP PUMP AND PIT. CONTRACTOR SHALL FIELD COORDINATE FINAL LOCATION OF SUMP PIT WITH ARCHITECT AND STRUCTURAL ENGINEER PRIOR TO THE START OF WORK. TERMINATE FORCED MAIN OVER MOP SINK.
⑩	CONDENSATE SUPPORT EVERY 4 FEET (TYPICAL). USE MIRO INDUSTRIES MODEL 1.5 WITH PIPE STRAP AND BASE OR APPROVED EQUAL.
⑪	PROVIDE PLASTER TRAP, SANITARY STUB-OUT, AND WATER SUPPLY STOP VALVE FOR FUTURE SERVICE SINK.

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

TYEC HVAC PLUMBING ELECTRICAL
THOMPSON & YOUNGROSS
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PERMIT SET 06-29-15

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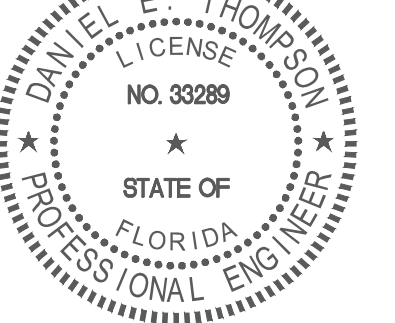
SPRAB 02/13/2015

BIDS 06/25/2015

PERMIT 06/25/2015

CONSTRUCTION

SEAL



PROJECT TITLE

Art Warehouse

313 NE 3rd Street
Delray Bch, Florida, 33444

NUM.	DESCRIPTION	DATE
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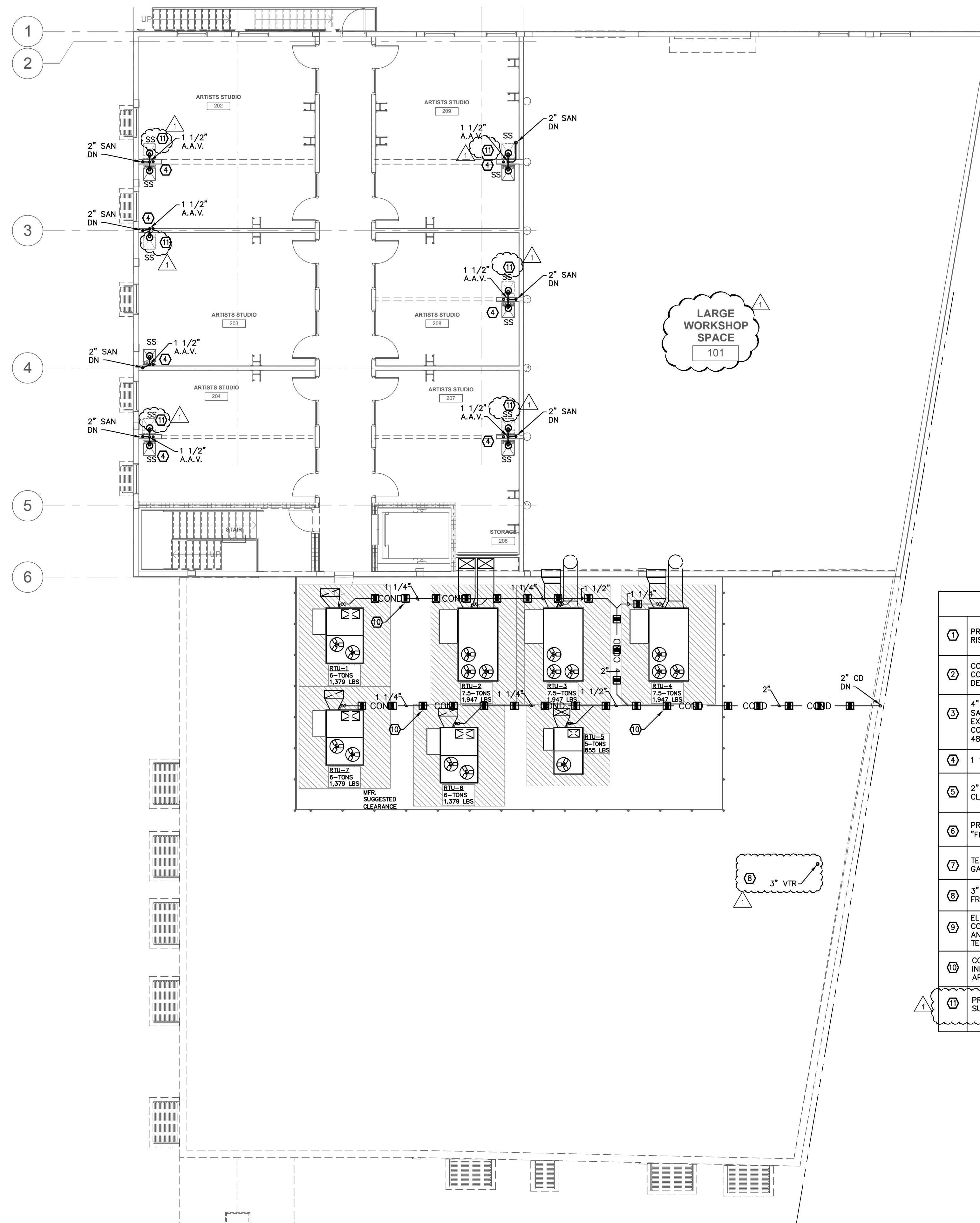
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2ND FLOOR PLAN PLUMBING

DATE 06/25/2015 DRAWN BY AA/MT/HL

JOB NUMBER 100701/15009

DRAWING NUMBER

P1.2



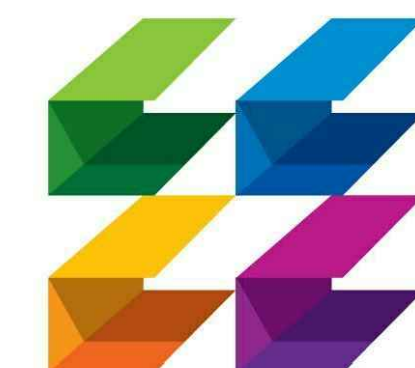
PLAN KEY NOTES	
①	PROVIDE MAIN SHUT-OFF VALVE (BALL VALVE) IN VERTICAL RISER. PROVIDE A LOCK-OUT DEVICE AT VALVE.
②	CONNECT TO NEW WATER METER AND BACKFLOW PREVENTOR. COORDINATE WITH THE CITY OF DELRAY BEACH ENGINEERING DEPARTMENT FOR FINAL SIZE AND LOCATION.
③	4\"/>
④	1 1/2\"/>
⑤	2\"/>
⑥	PROVIDE INSTANTANEOUS WATER HEATER EEMAX EX8208 \"FLOW CONTROLLED\" 208V, 8.0KW, 2.0GPM.
⑦	TERMINATE 2\"/>
⑧	3\"/>
⑨	ELEVATOR SUMP PUMP AND PIT. CONTRACTOR SHALL FIELD COORDINATE FINAL LOCATION OF SUMP PIT WITH ARCHITECT AND STRUCTURAL ENGINEER PRIOR TO THE START OF WORK. TERMINATE FORCED MAIN OVER MOP SINK.
⑩	CONDENSATE SUPPORT EVERY 4 FEET (TYPICAL). USE MIRO INDUSTRIES MODEL 1.5 WITH PIPE STRAP AND BASE OR APPROVED EQUAL.
⑪	PROVIDE PLASTER TRAP, SANITARY STUB-OUT, AND WATER SUPPLY STOP VALVE FOR FUTURE SERVICE SINK.

1 SECOND FLOOR PLAN- PLUMBING
1/8" = 1'-0"

TYEC HVAC PLUMBING ELECTRICAL
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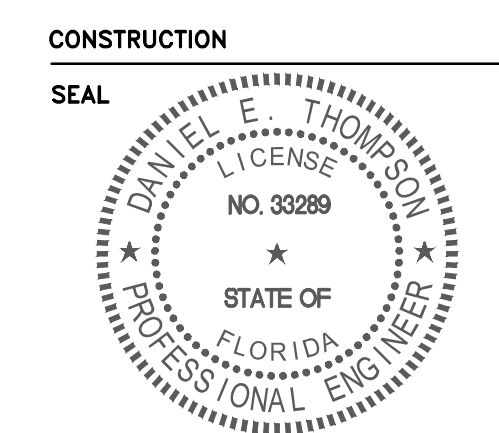
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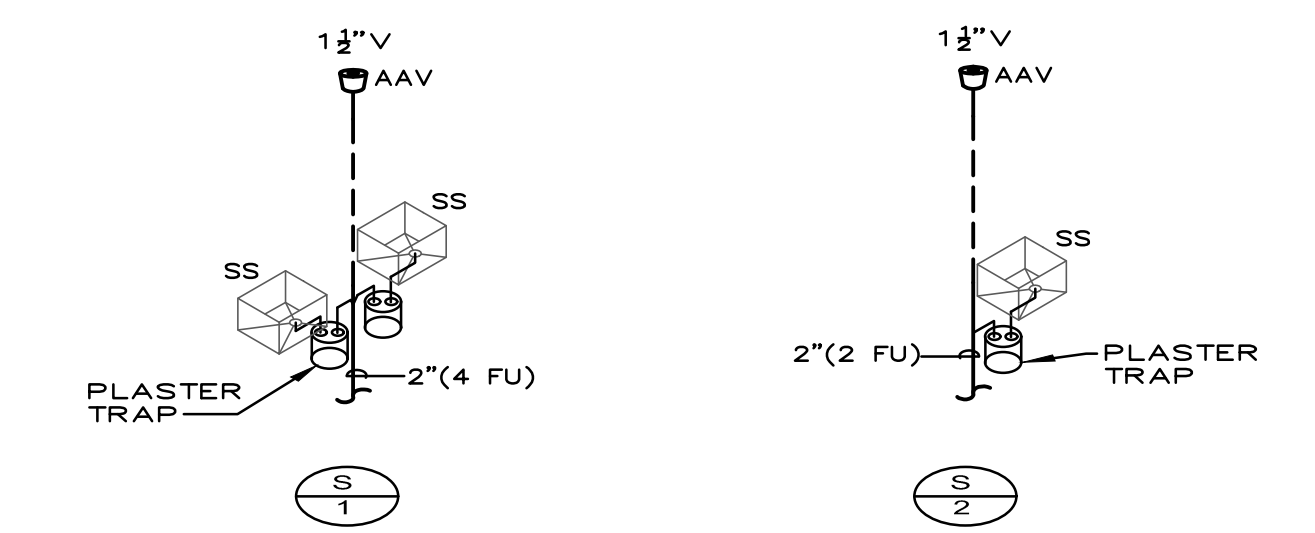
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FILE NUMBER
DRAWING TITLE
**PLUMBING
ISOMETRIC
DIAGRAMS**

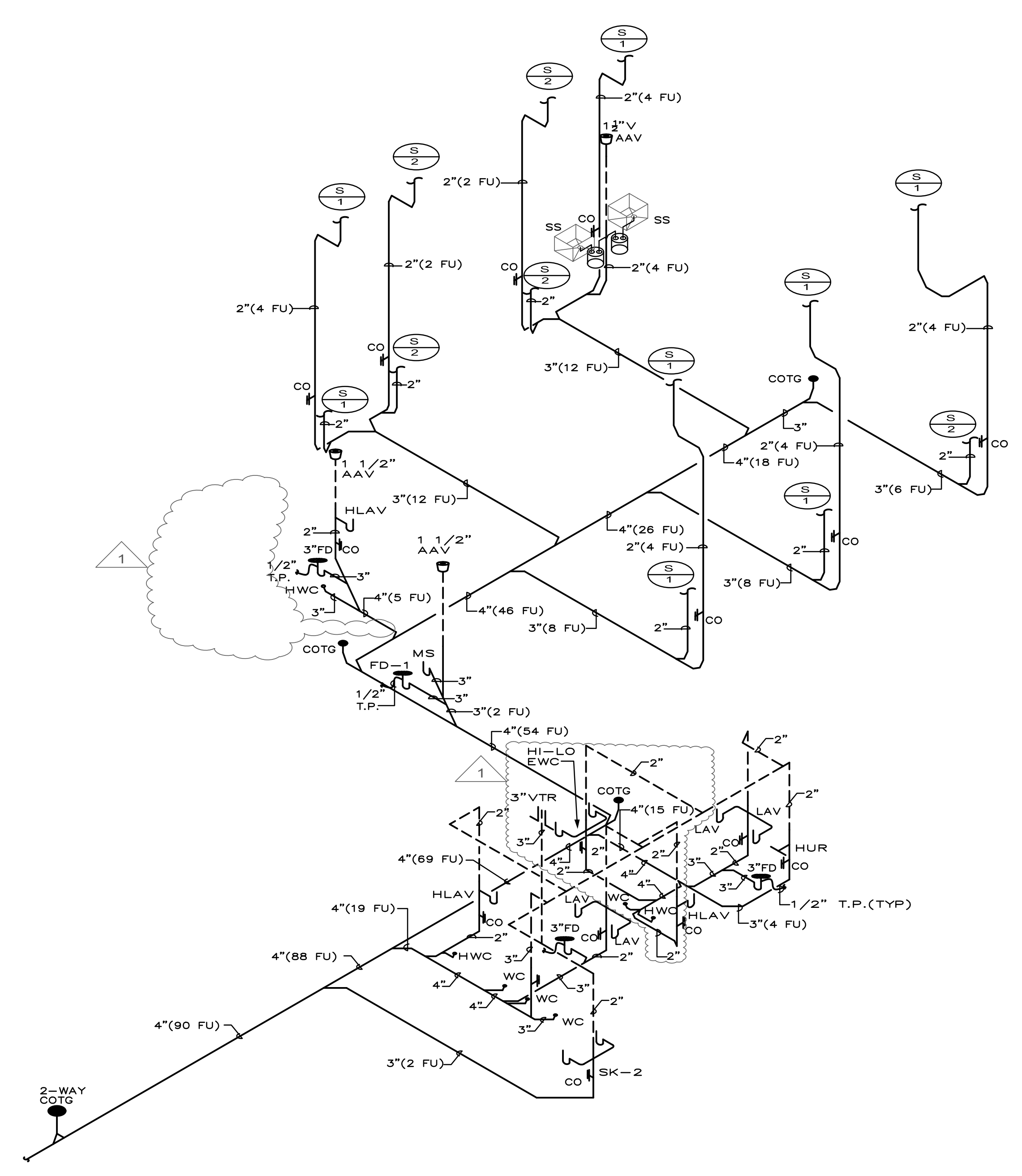
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P2.1

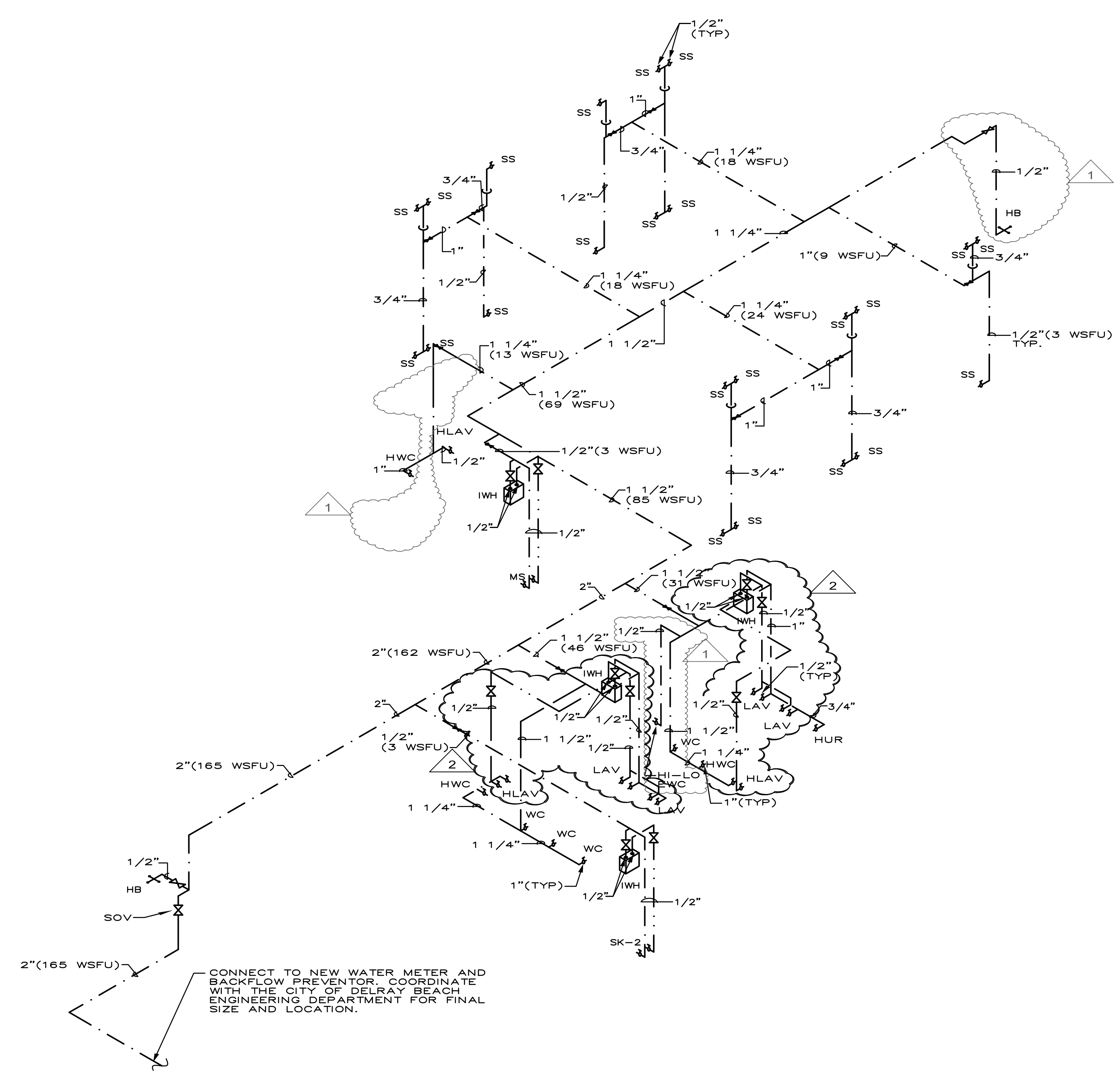
WATER HAMMER ARRESTER SCHEDULE			
DESIGNATION	PDI UNIT	PIPE SIZE	MANUFACTURER
WHA-1	A	1/2"	SIoux CHIEF
WHA-2	B	3/4"	SIoux CHIEF
WHA-3	C	1"	SIoux CHIEF
WHA-4	D	1-1/4"	SIoux CHIEF
WHA-5	E	1-1/2"	SIoux CHIEF



TYPICAL SERVICE SINK CONNECTION.
(ORIENTATION MAY VARY)
N.T.S.



SANITARY WASTE ISOMETRIC DIAGRAM
N.T.S.



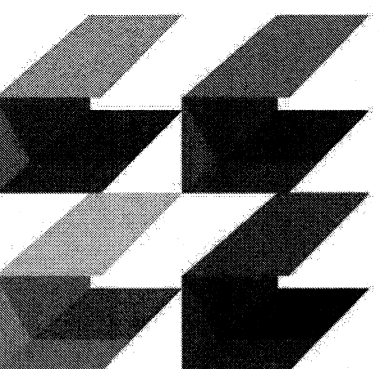
DOMESTIC WATER ISOMETRIC DIAGRAM
N.T.S.

CONNECT TO NEW WATER METER AND BACKFLOW PREVENTOR. COORDINATE WITH THE CITY OF DELRAY BEACH ENGINEERING DEPARTMENT FOR FINAL SIZE AND LOCATION.

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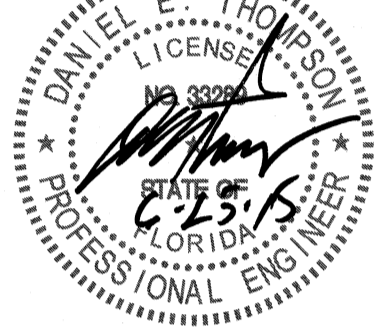
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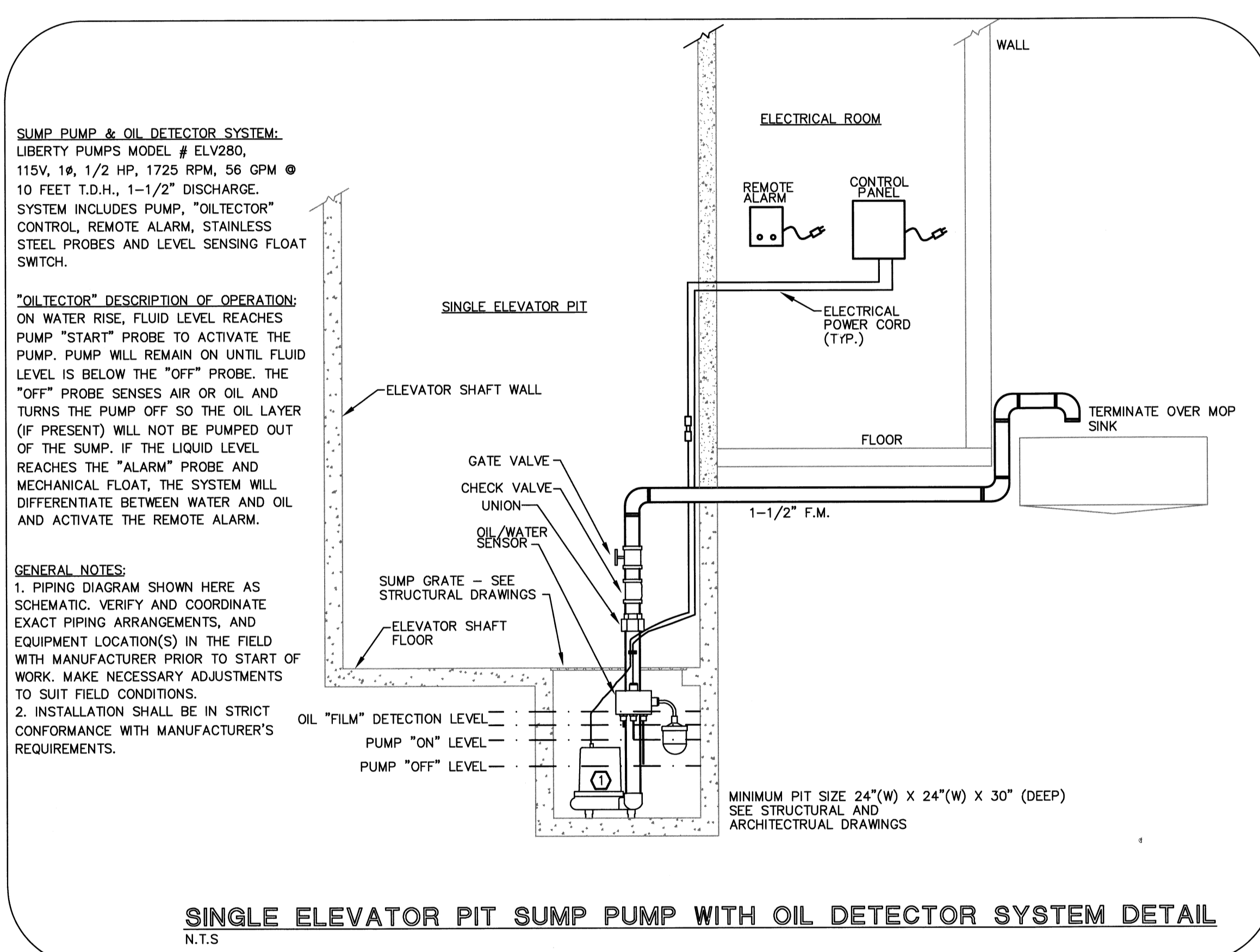
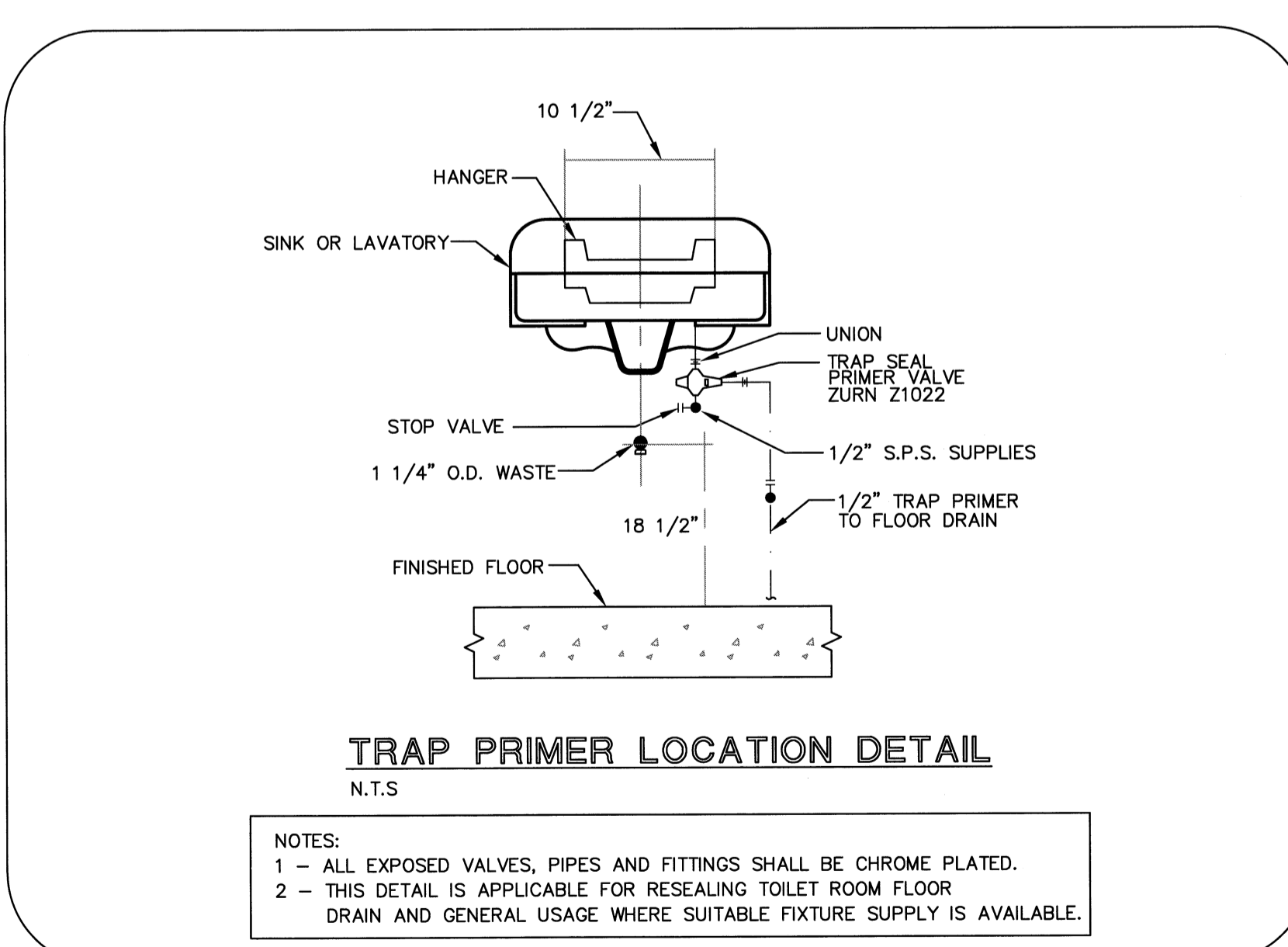
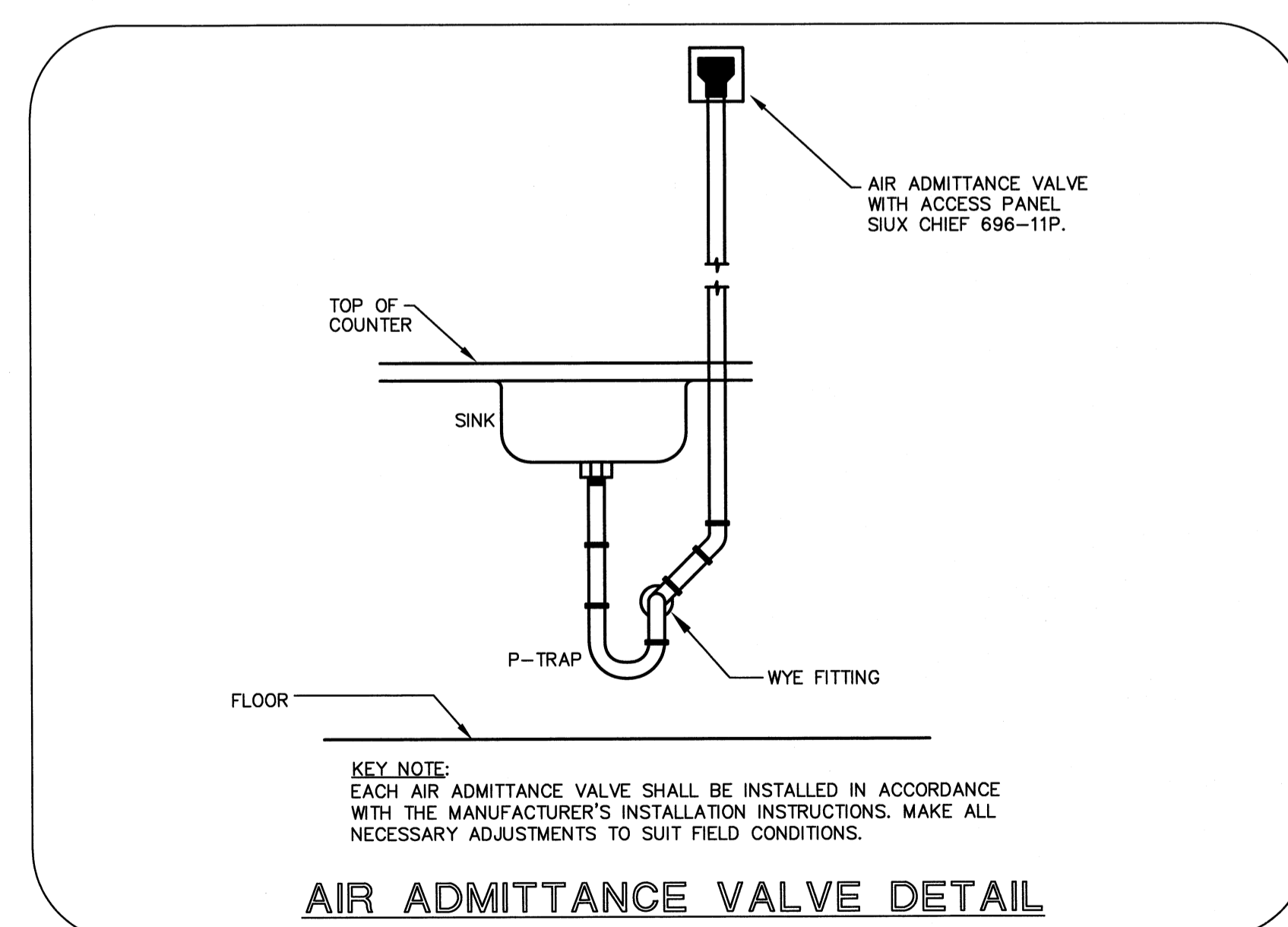
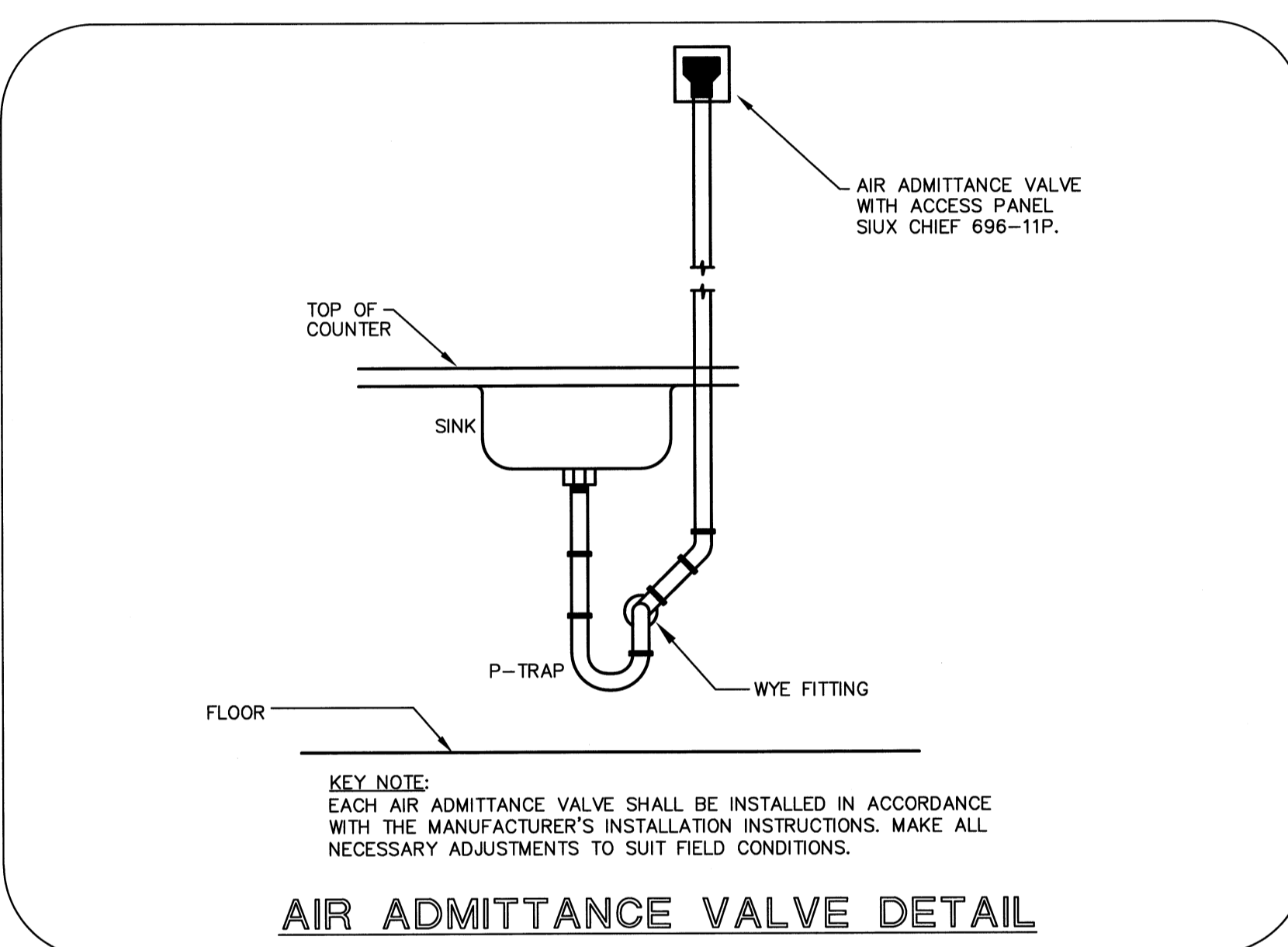
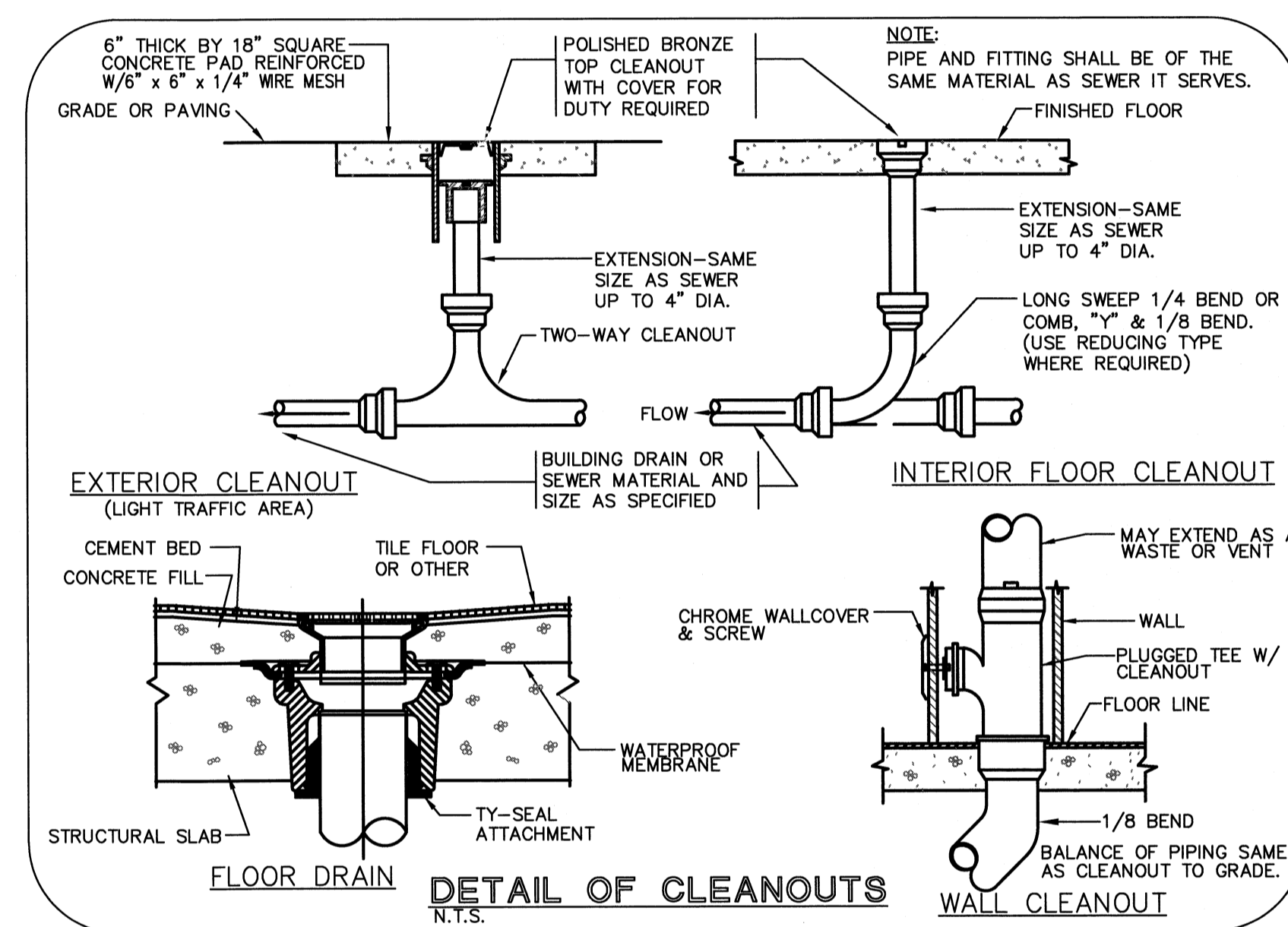
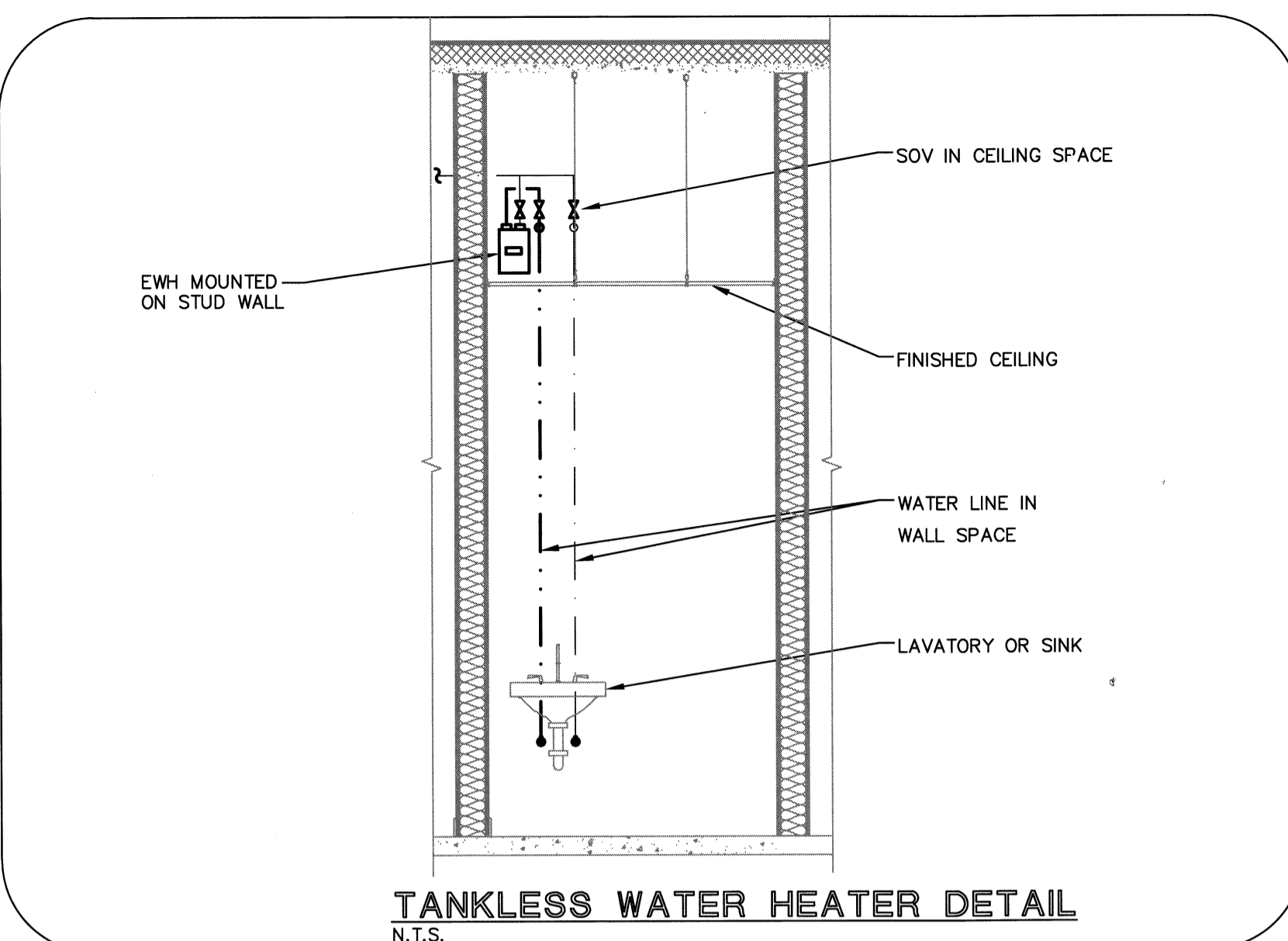
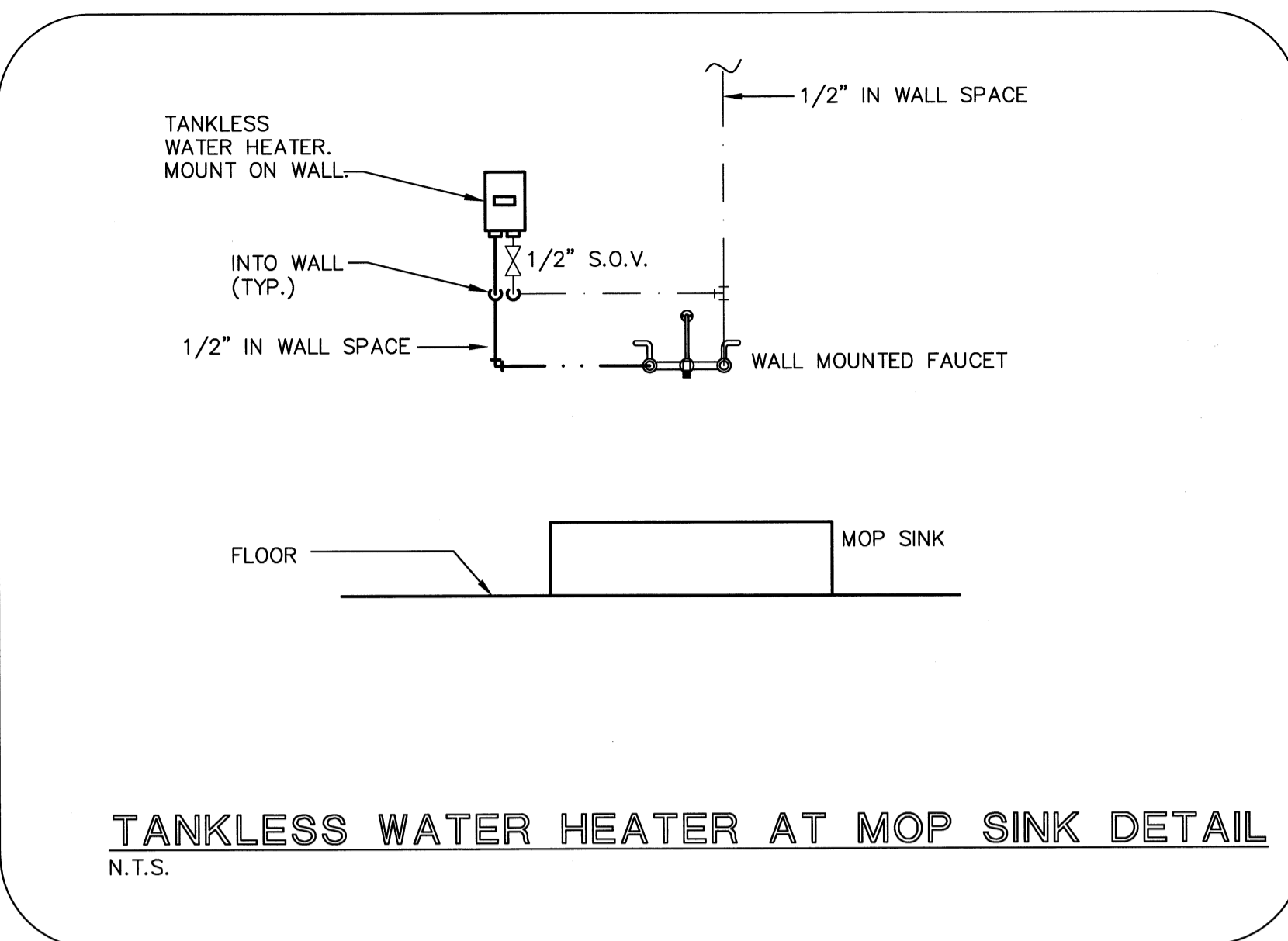
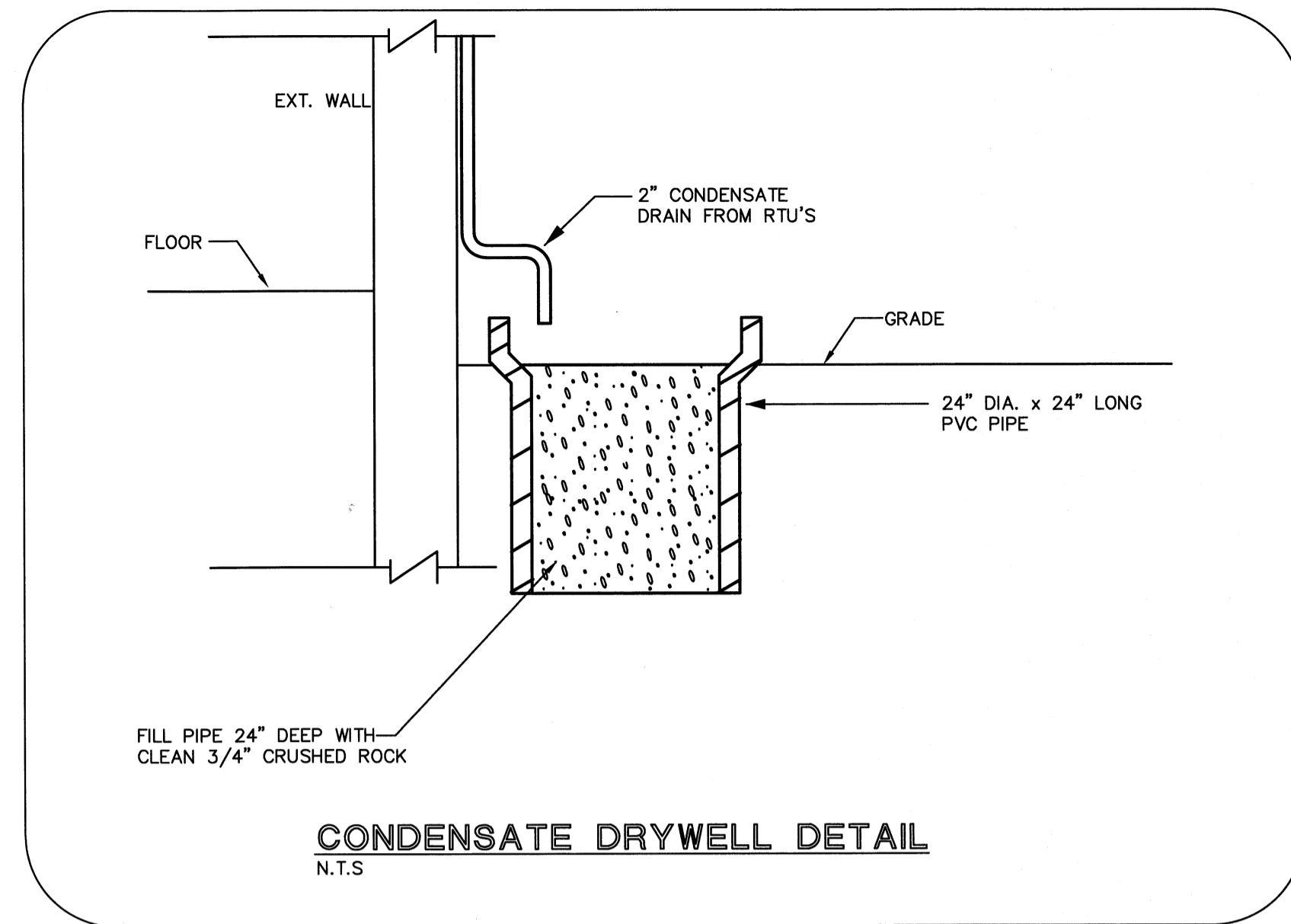
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**PLUMBING
DETAILS**

DATE	06/25/2015	DRAWN BY	AA/MT/HL
JOB NUMBER	100701/15009		
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P3.1

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SUMP PUMP & OIL DETECTOR SYSTEM:
LIBERTY PUMPS MODEL # ELV280,
115V, 1/2 HP, 1725 RPM, 56 GPM @
10 FEET T.D.H., 1-1/2" DISCHARGE.
SYSTEM INCLUDES PUMP, "OILTECTOR"
CONTROL, REMOTE ALARM, STAINLESS
STEEL PROBES AND LEVEL SENSING FLOAT
SWITCH.

"OILTECTOR" DESCRIPTION OF OPERATION:
ON WATER RISE, FLUID LEVEL REACHES
PUMP "START" PROBE TO ACTIVATE THE
PUMP. PUMP WILL REMAIN ON UNTIL FLUID
LEVEL IS BELOW THE "OFF" PROBE. THE
"OFF" PROBE SENSES AIR OR OIL AND
TURNS THE PUMP OFF SO THE OIL LAYER
(IF PRESENT) WILL NOT BE PUMPED OUT
OF THE SUMP. IF THE LIQUID LEVEL
REACHES THE "ALARM" PROBE AND
MECHANICAL FLOAT, THE SYSTEM WILL
DIFFERENTIATE BETWEEN WATER AND OIL
AND ACTIVATE THE REMOTE ALARM.

GENERAL NOTES:
1. PIPING DIAGRAM SHOWN HERE AS
SCHEMATIC. VERIFY AND COORDINATE
EXACT PIPING ARRANGEMENTS, AND
EQUIPMENT LOCATION(S) IN THE FIELD
WITH MANUFACTURER PRIOR TO START OF
WORK. MAKE NECESSARY ADJUSTMENTS
TO SUIT FIELD CONDITIONS.
2. INSTALLATION SHALL BE IN STRICT
CONFORMANCE WITH MANUFACTURER'S
REQUIREMENTS.

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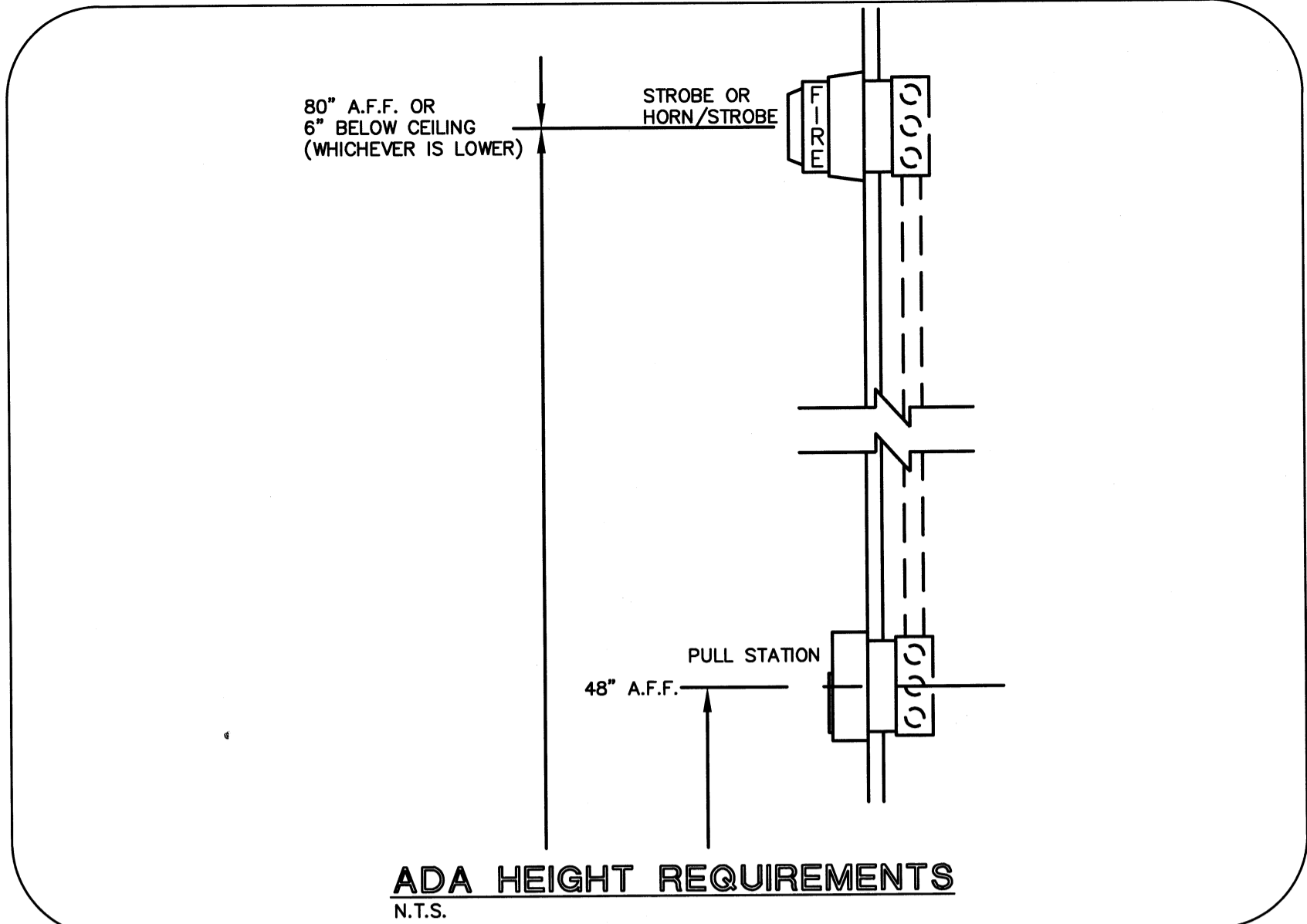
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FIRE ALARM SYSTEM SPECIFICATION

- SYSTEM SHALL BE GENERAL ALARM, NON-CODED, ELECTRICALLY SUPERVISED, ADDRESSABLE, POWER LIMITED, BATTERY BACK-UP, TELEPHONE AUTO DIALER TO SEND SIGNALS TO CENTRAL STATION FACILITY, TROUBLE BELL, TROUBLE LIGHT, & SILENCING SWITCH. SILENCING CIRCUIT SHALL BE "CLASS B-STYLE 4", NOTIFICATION CIRCUIT SHALL BE "CLASS B-STYLE Y".
- FIRE ALARM CONTROL PANEL SHALL BE NOTIFIER "NFS-320", INCLUDING ALL MODULES, CARDS, COMPONENTS REQUIRED FOR A FULLY OPERATIONAL SYSTEM. PANEL SHALL BE EXPANDABLE. FIRE ALARM ANNUNCIATOR PANEL SHALL BE NOTIFIER "LCD-80" (EXPANDABLE) WITH LED'S TO ANNUNCIATE BY FLOOR & LOCATION ALL MANUAL & AUTOMATIC DEVICES. EQUAL BRANDS ACCEPTABLE.
- SUPPLEMENTARY APPLIANCE INDICATING PANEL SHALL HAVE TWO 1.25 AMP-24VOLT (30 VA) NOTIFICATION APPLIANCE CIRCUITS, WITH SELF-CONTAINED POWER AND 7 AMP-HOUR BACK-UP BATTERY CHARGER & BATTERIES.
- EACH FIRE ALARM PANEL SHALL HAVE MAINTENANCE FREE BATTERY BACK-UP WITH MINIMUM 24 HOURS STANDBY AND ADDITIONAL 5 MINUTES ALARM. FIRE ALARM SUPPLIER/INSTALLER SHALL SUBMIT BATTERY CALCULATIONS BASED UPON DEVICES ACTUALLY INSTALLED FOR SHELL BLDG., AND PROVIDE FOR 100% SPARE CAPACITY FOR FUTURE DEVICES.
- MAKE ALL SPLICES/CONNECTIONS ON TERMINAL STRIPS. TAPED OR WIRE NUT SPLICES NOT ALLOWED. WIRING COLOR CODE IS HIGHLY RECOMMENDED FOR EASE OF IDENTIFICATION IF COLOR CODE IS NOT USED, LABEL WIRES WITH CORRESPONDING LETTER DESIGNATION.
- AT START OF JOB AND PRIOR TO ANY INSTALLATION, SUBMIT COMPLETE WIRING DIAGRAMS INCLUDING WIRE AND CONDUIT SIZES, EQUIPMENT LISTS AND CATALOGUE CUTS OF EACH ITEM OF EQUIPMENT TO ARCHITECT AND TO LOCAL FIRE INSPECTION AUTHORITY FOR APPROVALS.
- INSTALLER SHALL BE U.L. CERTIFIED & STATE LICENSED FIRE ALARM SYSTEMS CONTRACTOR. AT COMPLETION OF JOB, TEST SYSTEM IN PRESENCE OF FIRE INSPECTOR TO HIS SATISFACTION.
- ALL WIRE COUNTS ARE BASED ON EQUIPMENT NEEDS. THE TYPE OF WIRE USED (SIZE, INSULATION, # OF STRANDS, ETC.) AND HOW IT IS INSTALLED IS THE SOLE RESPONSIBILITY OF THE ELECT. CONTRACTOR. IT MUST MEET ALL APPLICABLE CODES AND SPECIFICATIONS. ALL WIRE SHALL BE #14 THWN - CU.
- ALL CONDUIT SIZE SHALL BE 3/4", UNLESS NOTED OTHERWISE. THE INSTALLATION OF THE FIRE ALARM RACEWAY SYSTEM IS THE SOLE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.
- ALL COMPONENTS SHALL REFLECT 'UL' LISTING FOR FIRE SERVICE USE. MEET NFPA 72 REQUIREMENTS, AND SHALL BE COMPATIBLE. FIRE ALARM SYSTEM TO BE INSTALLED IN ACCORDANCE WITH NFPA.
- A BREAK IN ANY FIELD WIRING OR GROUNDING OF ANY CONDUCTOR WILL RESULT IN THE ACTIVATION OF THE FIRE ALARM PANEL TROUBLE BUZZER, WHICH CAN BE SILENCED BY OPERATING THE "TROUBLE SILENCE" BUTTON ON THE FIRE ALARM PANEL.
- PULL STATIONS TO BE MOUNTED AT 48" A.F.F. PER THE A.D.A. CODE.
- WALL MOUNTED HORNS AND STROBES TO BE AT 80" TO BOTTOM OR 6" FROM CEILING WHICH EVER IS LOWER.
- CEILING MOUNTED SMOKE DETECTORS SHALL BE LOCATED IN A DIRECT AIRFLOW, NOT CLOSER THAN 3 FEET FROM AN AIR SUPPLY DIFFUSER. NFPA 72 A-5-3.6.1 AND A-5-5.7.1.
- THE CONTROL RELAY MODULE FOR RTU SHUTDOWN SHALL BE LOCATED WITHIN 3 FEET OF THE DEVICE BEING CONTROLLED. NFPA 101 A-7-6.5.5. THE RELAY CONTACTS HAVE A MAXIMUM CAPABILITY OF 1.0 AMPS @ 24V AND 0.3 AMPS AT 120VAC. CONTRACTOR MUST VERIFY THAT THE SHUTDOWN CIRCUIT DOES NOT EXCEED THESE MAXIMUM CURRENT RATINGS.
- THE DUCT SMOKE DETECTOR AND REMOTE TEST IS PROVIDED BY THE FIRE ALARM CONTRACTOR. THE MECHANICAL CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION OF THE DUCT SMOKE DETECTOR IN THE DUCT WORK. THE FIRE ALARM CONTRACTOR IS RESPONSIBLE FOR ALL WIRING.
- THE INSTALLING CONTRACTOR SHALL SET THE DEVICE ADDRESS AS IDENTIFIED ON THE INSTALLATION WIRING DIAGRAMS.
- THE 120VAC POWER FEED FOR THE FIRE PANEL AND BOOSTER POWER SUPPLIES MUST BE FROM A DEDICATED EMERGENCY PANEL BREAKER, AND THE BREAKER MUST BE LOCKABLE, RED IN COLOR, AND IDENTIFIED THAT IT IS FOR THE 'FIRE ALARM SYSTEM'.
- POWER UP AND POWER DOWN OF THE FIRE ALARM PANEL MUST BE DONE IN THE PROPER SEQUENCE:
POWER DOWN: DISCONNECT THE BATTERY AND THEN TURN OFF THE BREAKER IN POWER PANEL.
POWER UP: TURN ON THE BREAKER IN THE PANEL AND THEN CONNECT THE BATTERY.
NOTE: DO NOT DISCONNECT THE 120VAC POWER FEED FROM THE TERMINAL BLOCK TO DISCONNECT POWER.

FIRE ALARM SYMBOL LIST

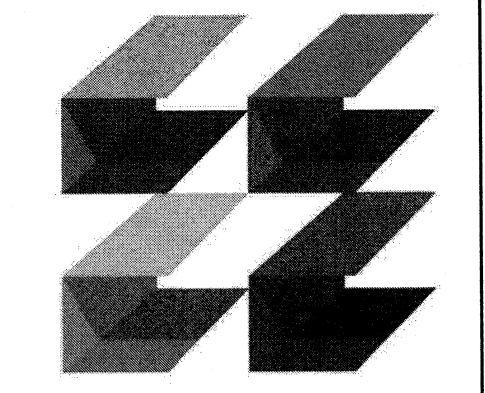
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|--|--|
| | FIRE ALARM SYSTEM SMOKE DETECTOR NOTIFIER # SDX-751 WITH NOTIFIER #0710LP BASE |
| | FIRE ALARM SYSTEM DUCT SMOKE DETECTOR NOTIFIER # DX-502 HOUSING & NOTIFIER #SDX-551 DETECTOR |
| | FIRE ALARM SYSTEM HEAT DETECTOR - RATE-OF-RISE AND FIXED NOTIFIER # FDH-551R WITH NOTIFIER # BX-501 BASE. |
| | FIRE ALARM SYSTEM ADDRESSABLE PULL STATION NOTIFIER # B0X101-L |
| | FIRE ALARM SYSTEM STROBE LIGHT, 75cd NOTIFIER # ST-24-15/75WR, A.D.A. COMPLIANT. |
| | FIRE ALARM SYSTEM STROBE LIGHT, 110cd NOTIFIER # ST-24-110WR, A.D.A. COMPLIANT. |
| | FIRE ALARM SYSTEM COMBINATION HORN/STROBE LIGHT, 75cd OR 110cd NOTIFIER # HS-24-75/110WR, A.D.A. COMPLIANT |
| | FIRE ALARM SYSTEM WATER FLOW SWITCH SWITCH PROVIDED BY MECHANICAL CONTRACTOR. |
| | FIRE ALARM SYSTEM TAMPER SWITCH SWITCH PROVIDED BY MECHANICAL CONTRACTOR. |
| | FIRE ALARM SYSTEM REMOTE TEST STATION NOTIFIER #RTS451 |
| | FIRE ALARM SYSTEM ADDRESSABLE MONITOR MODULE. NOTIFIER #MMX101 |
| | FIRE ALARM SYSTEM ADDRESSABLE SIGNAL/CONTROL MODULE. NOTIFIER #CMX-2 |
| | FIRE ALARM SYSTEM DIGITAL COMMUNICATOR NOTIFIER #UDACT |
| | FIRE ALARM SYSTEM ELEVATOR STATUS/RECALL SWITCH |
| | FIRE ALARM SYSTEM CONTROL PANEL; NOTIFIER NFS-320 PROVIDE NOTIFIER AH BATTERIES. |
| | FIRE ALARM SYSTEM ANNUNCIATOR PANEL NOTIFIER # LCD-80, PROVIDE ANNUNCIATOR EXPANDER AS REQUIRED |
| | KNOX BOX (FURNISHED & INSTALLED BY GENERAL CONTRACTOR, SHOWN FOR COORDINATION PURPOSES ONLY.) |
| | EXIT SIGN - 90 MINUTE BATTERY (SEE LIGHTING PLAN) |
| | COMBO EXIT SIGN + EMERGENCY LIGHT (SEE LIGHTING PLAN) 90 MINUTE BATTERY |
| | EMERGENCY LIGHT - 90 MIN. BATTERY |
| | BACKFLOW PREVENTER - DOUBLE CHECK TYPE. |

FIRE ALARM WIRE SCHEDULE
(FIRE ALARM SYSTEM SHALL BE POWER LIMITED)

A1	2#14 AWG THHN SOLID WIRE FOR HORN AND STROBES, YELLOW (+) & BROWN (-)
A2	2#12 AWG THHN SOLID WIRE FOR HORN AND STROBES, YELLOW (+) & BROWN (-)
B	16-2 WIRE FPL FOR DATA COMMUNICATION; BLACK JACKET
C	1#12 AWG THHN STR WIRE FOR GROUND; GREEN JACKET
D	2#12 AWG THHN STR WIRE FOR POWER SUPPLY AND PANEL POWER; RED JACKET (+) AND BLACK (-)

SEQUENCE OF OPERATION

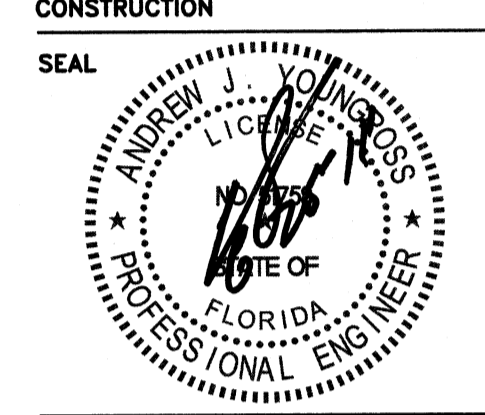
- THE FIRST ACTIVATION OF ANY MANUAL FIRE ALARM PULL STATION, OR THE AUTOMATIC ACTIVATION OF ANY THERMAL DETECTOR, SMOKE DETECTOR, OR ANY OTHER APPROVED ALARM INITIATING DEVICE SHALL IMMEDIATELY RESULT IN THE FOLLOWING:
 - NOTIFY THE OWNER'S MONITORING SERVICE.
 - THE EVACUATION SIGNAL SHALL BE A HORN TONE, ELECTRONICALLY GENERATED UNTIL SIGNALS ARE SILENCED. WHEN SIGNALS ARE SILENCED THE VISUAL ALARM DEVICES SHALL ALSO BE EXTINGUISHED.
 - ALL A.D.A. VISIBLE ALARM INDICATING APPLIANCES SHALL FLASH AT A SYNCHRONIZED RATE CONTINUOUSLY UNTIL THE SYSTEM IS RESET OR SILENCED.
 - ALARM INDICATING APPLIANCES SHALL SOUND ALARM THROUGHOUT THE BUILDING IN GENERAL ALARM UNLESS SILENCED AT MAIN PANEL.
 - ANY SUBSEQUENT ZONE ALARM SHALL REACTIVATE THE ALARM INDICATING APPLIANCES.
 - THE SYSTEM ALARM LED SHALL FLASH ON THE DISPLAY UNIT. THE SYSTEM ALARM LED SHALL FLASH ON THE CONTROL PANEL UNTIL THE ALARM HAS BEEN ACKNOWLEDGED. ONCE ACKNOWLEDGED, THIS SAME LED SHALL LATCH ON. A SUBSEQUENT ALARM RECEIVED FROM ANOTHER ZONE SHALL FLASH THE SYSTEM ALARM LED ON THE CONTROL PANEL. THE LCD DISPLAY SHALL SHOW THE NEW ALARM INFORMATION.
- ACTIVATION OF 1ST FLOOR ELEVATOR SMOKE DETECTOR TO RECALL ELEVATOR TO 2ND FLOOR.
 - ACTIVATION OF 2ND FLR., 3RD FLR., OR ELEV. MACH. RM. ELEVATOR SMOKE DETECTORS TO RECALL ELEVATOR TO 1ST FLOOR.
 - ACTIVATION OF ELEVATOR HEAT DETECTORS TO RECALL ELEVATOR TO FIRST FLOOR.
- NO MAGNETIC DOOR HOLDER OR SMOKE DOORS IN THIS BUILDING
- RECEIPT OF SPRINKLER WATER FLOW SIGNAL:
 - WATER FLOW ALARM ANNUNCIATION AT FACP.
 - WATER FLOW ALARM COMMUNICATED TO CENTRAL STATION.
 - LOCAL HORN/STROBE DEVICES ACTIVATE THROUGHOUT PROTECTED SPACE/BUILDING AND WILL NOT BE SILENCED UNTIL WATERFLOW CONDITIONED IS CLEARED.
- ACTIVATION OF SUPERVISORY CONDITION:
 - ANNUNCIATION OF SUPERVISORY ALARM AT FACP.
 - DEVICE ADDRESS AND SUPERVISORY ALARM CONDITION INDICATED AT FACP.
 - SUPERVISORY SIGNAL TRANSMITTED TO CENTRAL MONITORING STATION.
 - DUCT DETECTORS WILL CAUSE SUPERVISORY SIGNAL.
- ACTIVATION OF ANY TROUBLE CONDITION:
 - TROUBLE SIGNAL TRANSMITTED TO CUSTOMERS CENTRAL MONITORING STATION.
 - ANNUNCIATION OF TROUBLE ALARM AT FACP.
 - DEVICE ADDRESS AND TROUBLE ALARM CONDITION INDICATED AT FACP.



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SPRAB 02/13/2015
BIDS 06/25/2015
PERMIT 06/25/2015



PROJECT TITLE
Art Warehouse

313 NE 3rd Street
Delray Bch, Florida, 33444

REVISIONS		
NUM	DESCRIPTION	DATE

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FILE NUMBER
15009_FA

DRAWING TITLE
FIRE ALARM NOTES & LEGEND

DATE 06/25/2015 DRAWN BY AA/MT/HL
JOB NUMBER 100701/15009
DRAWING NUMBER

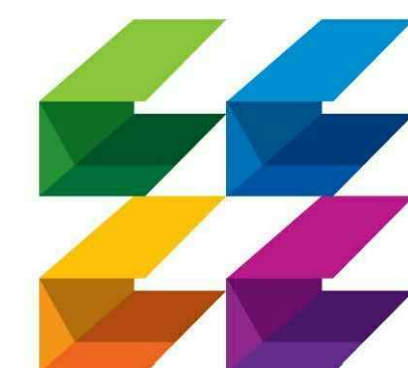
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FIRE ALARM DRAWING LIST

FA-0.1	FIRE ALARM NOTES & LEGEND
FA-1.1	FIRST FLOOR FIRE ALARM PLAN
FA-1.2	SECOND FLOOR FIRE ALARM PLAN

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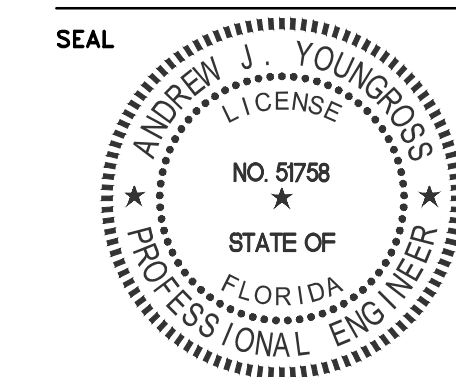
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DRAWING TITLE
FIRST FLOOR
FIRE ALARM
PLAN

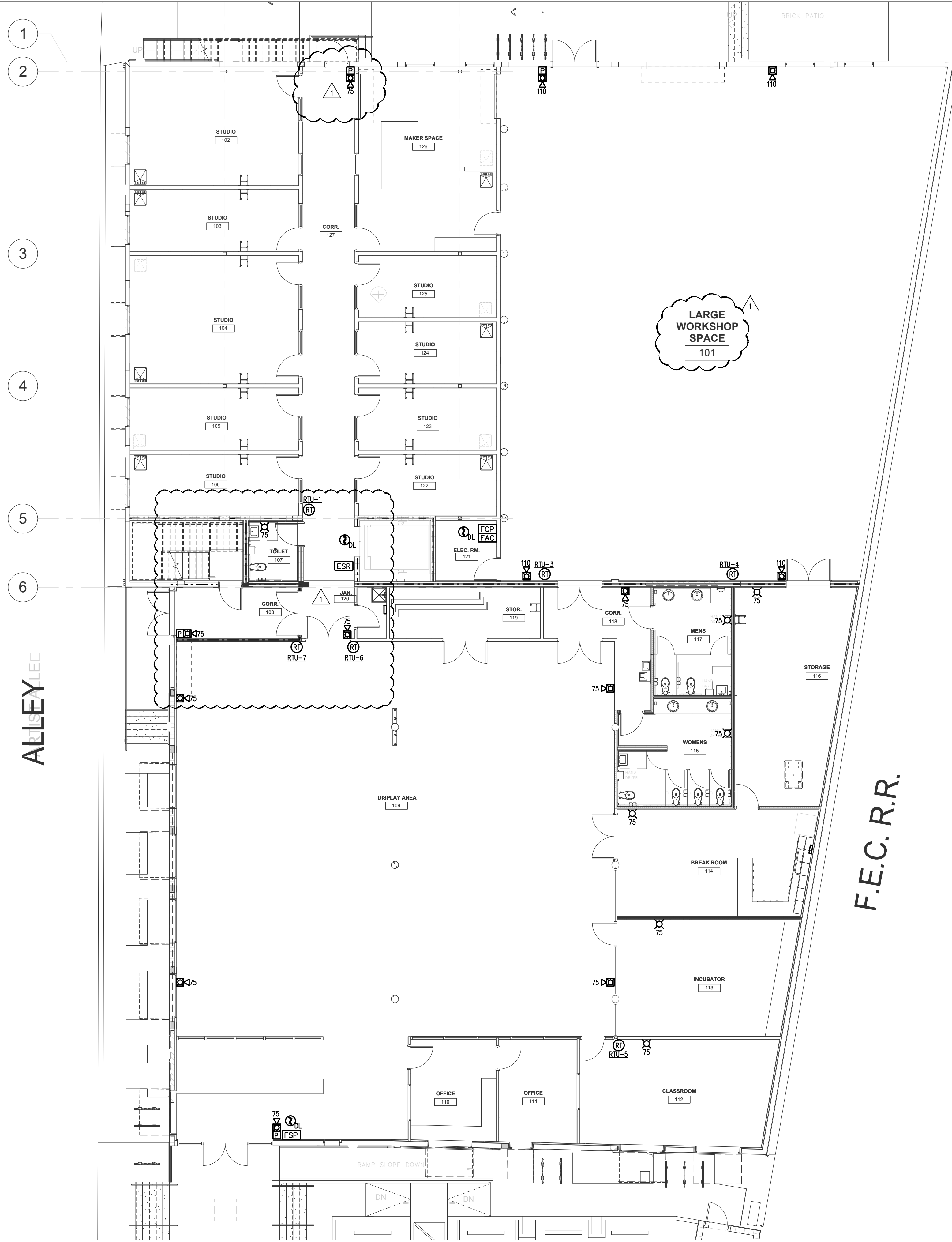
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FIRST FLOOR FIRE ALARM PLAN
1/8" = 1'-0"

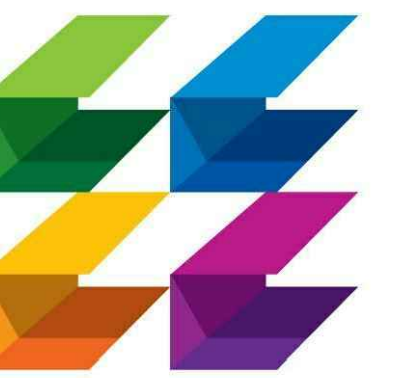


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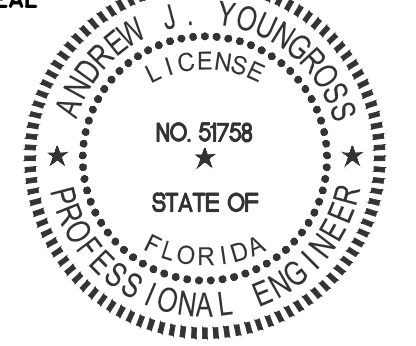
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FILE NUMBER

15009_FA

DRAWING TITLE

SECOND FLOOR

FIRE ALARM

PLAN

DATE

06/25/2015

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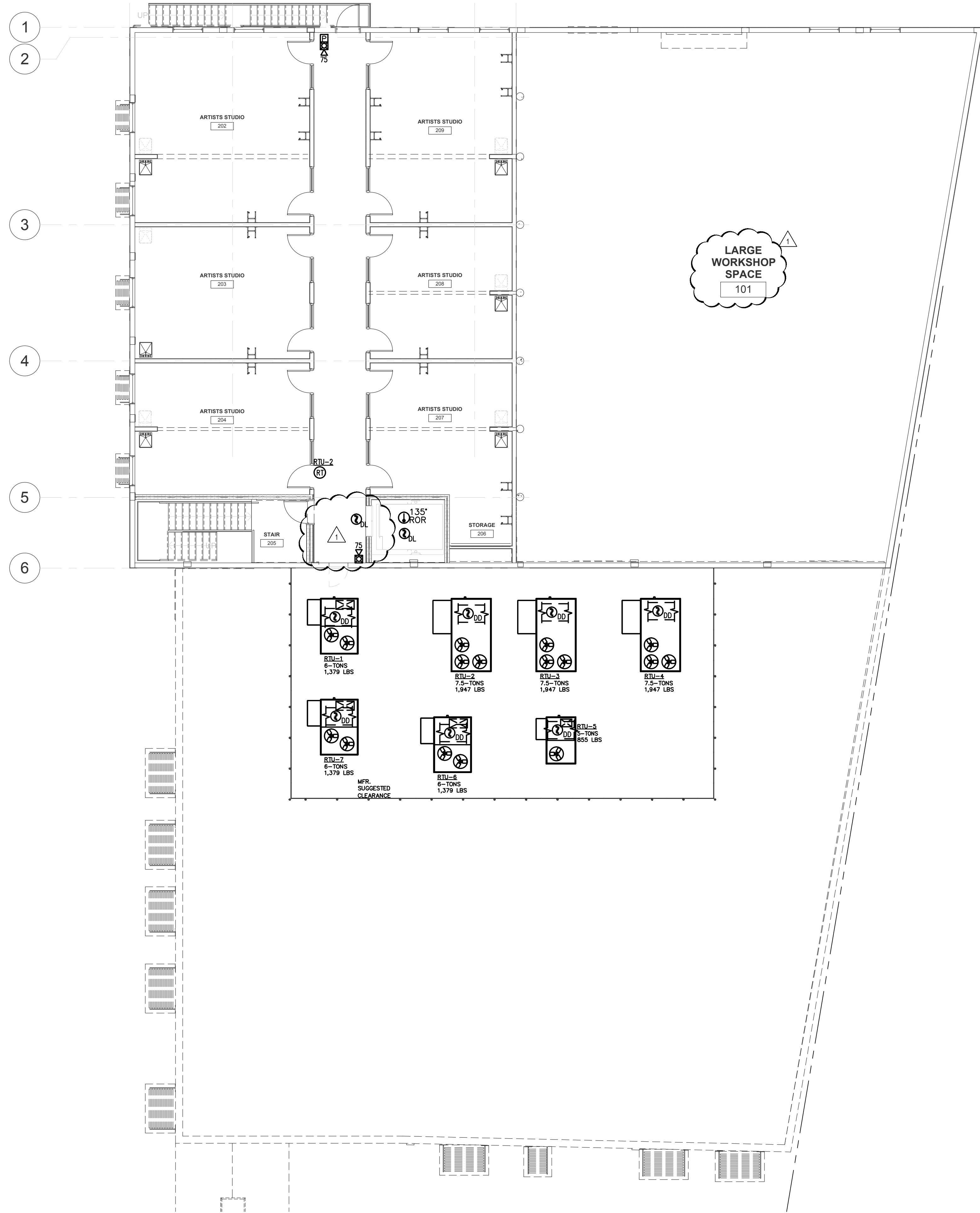
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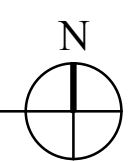
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SECOND FLOOR FIRE ALARM PLAN
1/8" = 1'-0"



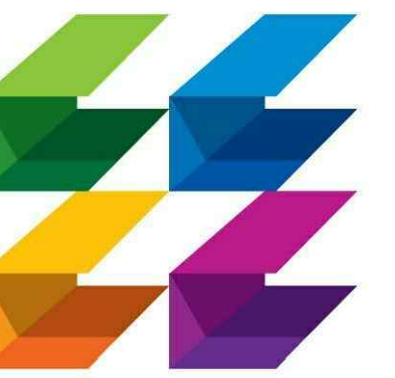
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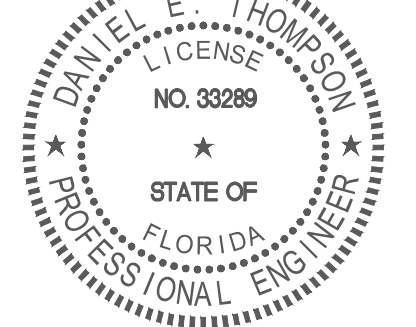
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FILE NUMBER

DRAWING TITLE

FIRST FLOOR
FIRE SPRINKLER
PLAN

DATE

06/25/2015

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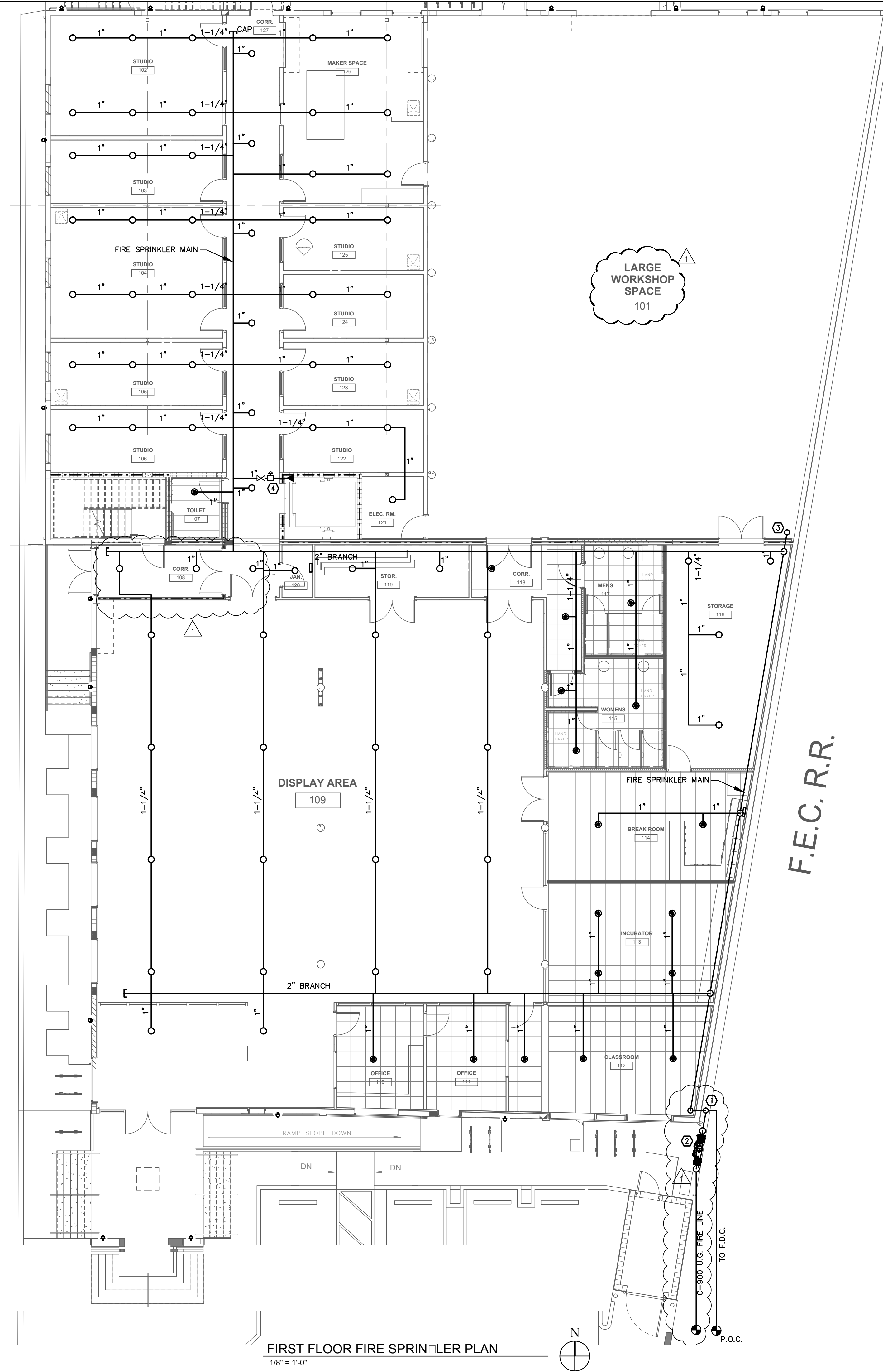
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100701/15009

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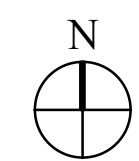
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PLAN KEY NOTES	
①	EXTERIOR MOUNTED FIRE SPRINKLER RISER. SEE DETAIL FOR ALL REQUIRED ACCESSORIES.
②	AMES 3000SS DOUBLE DETECTOR CHECK VALVE. THE LOCATION OF THE BACKFLOW PREVENTOR AND ALL UNDERGROUND LINES MUST BE VERIFIED PRIOR TO BIDDING AND COMMENCEMENT OF WORK.
③	FIRE SPRINKLER RISER UP FOR OPEN AREA FIRE PROTECTION.
④	PROVIDE 1" FIRE LINE, CONTROL VALVE AND FLOW AND TAMPER SWITCH FOR ELEVATOR PIT PROTECTION.

FIRST FLOOR FIRE SPRINKLER PLAN
1/8" = 1'-0"



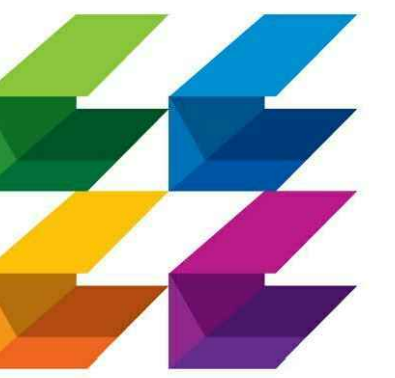
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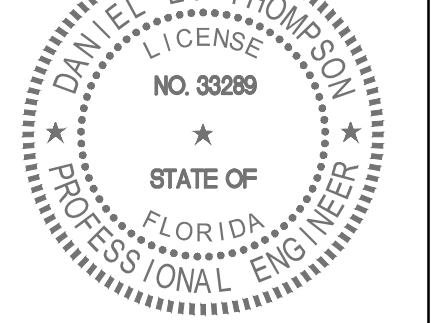
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SEAL



PROJECT TITLE

Art Warehouse

313 NE 3rd Street
Delray Bch, Florida, 33444

REVISIONS		
NUM.	DESCRIPTION	DATE
1	Bldg. Dept. comments	08.21.15

THESE DRAWINGS ARE PREPARED PER ESTABLISHED INDUSTRY STANDARDS AND REPRESENT THE ARCHITECT AND ENGINEERS DESIGN CONCEPT. THEY ARE NOT INTENDED TO PROVIDE EVERY DETAIL OR CONDITION REQUIRED TO CONSTRUCT THE BUILDING. THE CONTRACTOR THROUGH SUBMITTALS AND OTHER COORDINATION EFFORTS IS FULLY RESPONSIBLE FOR PROVIDING A COMPLETE AND OPERATIONAL BUILDING WHETHER INDICATED ON THE PLANS OR NOT.

FILE NUMBER

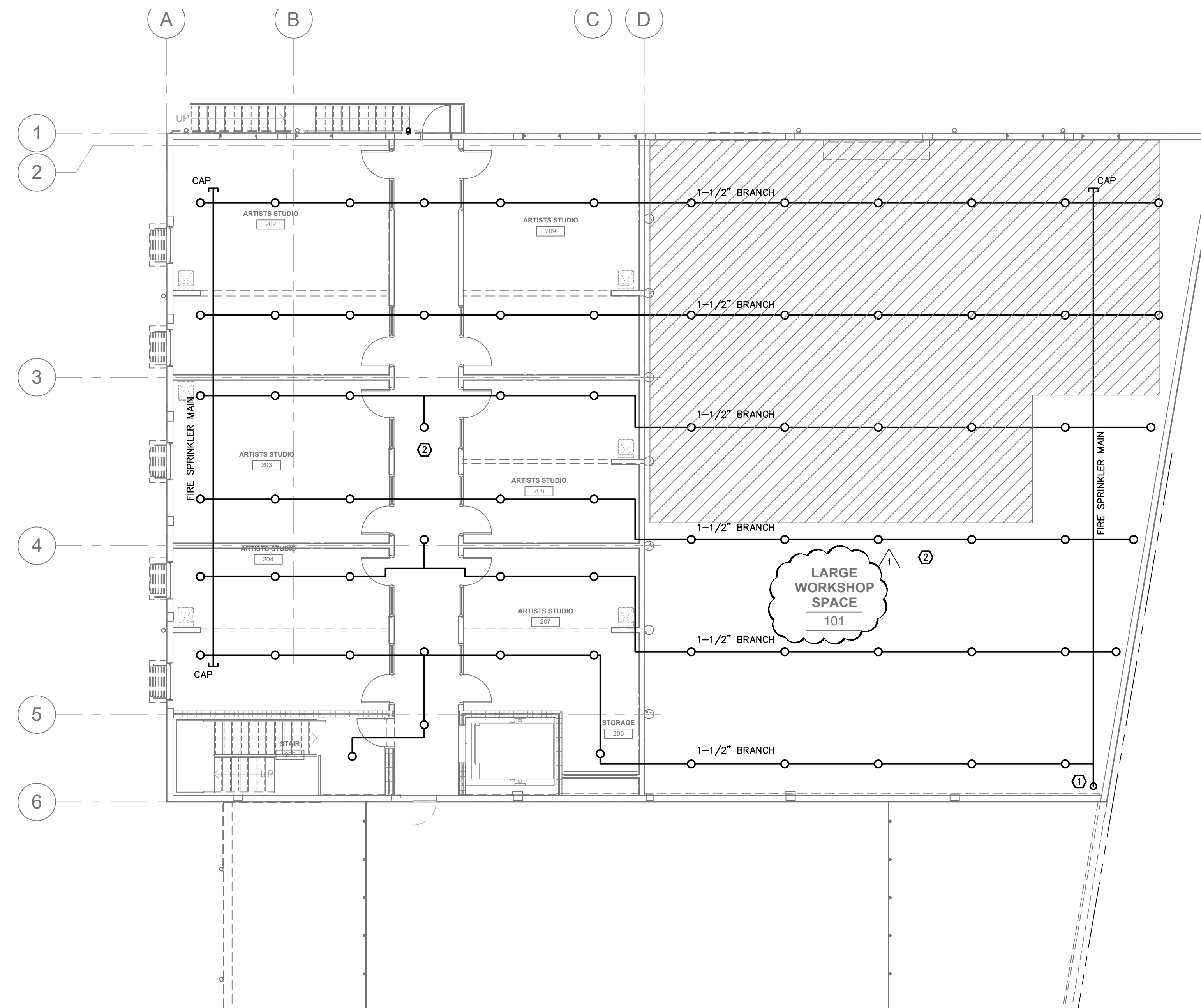
DRAWING TITLE
**SECOND FLOOR
FIRE SPRINKLER
PLAN**

DATE	06/25/2015	DRAWN BY	AA/MT/HL
JOB NUMBER	100701/15009		
DRAWING NUMBER			

FS-1.2

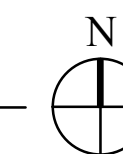
HYDRAULIC DESIGN INFORMATION	
AREA OF COVERAGE:	CLASSROOMS
AREA OF SPRINKLER OPERATION:	1500SF.
OCCUPANCY:	ORDINARY HAZARD GROUP 1
DENSITY:	0.15 GPM/SQ FT
SPRINKLER:	K=5.6 SIZE=1/2"
HOSE ALLOWANCE:	250
MAXIMUM SPACING:	13'X10'

PLAN KEY NOTES	
①	FROM 1ST FLOOR FIRE SPRINKLER SYSTEM. PROVIDE WALL MOUNTED RISER CLAMPS.
②	STRUCTURE IS EXPOSED TO THE UNDERNEATH. ALL LIGHTS AND MECHANICAL EQUIPMENT WILL BE EXPOSED. COORDINATE LOCATION OF FIRE SPRINKLERS WITH ALL OBSTRUCTIONS.



SECOND FLOOR FIRE SPRINKLER PLAN

1/8" = 1'-0"



TYEC HVAC
PLUMBING
ELECTRICAL

THOMPSON & YOUNGROSS
ENGINEERING CONSULTANTS, LLC
C.O.A. NO. 25996

112 SOUTHEAST 10th STREET
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PERMIT SET 06-29-15

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FAN SCHEDULE		
UNIT DESIGNATION	EF-1,2	EF-3,4
MANUFACTURER	GREENHECK	GREENHECK
MODEL	SP-A90	SP-A290
TYPE	PREMIUM CEILING	PREMIUM CEILING
AREA SERVED	BATHROOM	BATHROOMS
CONSTRUCTION	INSULATED HOUSING	INSULATED HOUSING
DIMENSIONS		
WIDTH (IN.)	13-1/4	14
LENGTH (IN.)	10-5/8	11-7/8
HEIGHT (IN.)	11-5/8	11-1/4
INLET & OUTLET SIZE (IN.)	8(W) x 6(H)	8(W) x 8(H)
WEIGHT (LBS.)	12	24
CONDITION OF SERVICE		
CFM	70	280
STATIC PRESSURE (W.G.)	0.25	0.15
SRM (MAX.)	900	1,050
TIP SPEED (MAX.)	1,296	-
SONES	1.0	2.5
DRIVE		
DIRECT	X	X
V-BELT	-	-
FAN MOTORS		
HP (AMPS OR WATTS)	29 WATTS	81 WATTS
VOLTS	120	120
PHASE	1	1
CYCLE	60	60
MOTOR SPEEDS	-	-
TYPE OF MOTOR	-	-
SPECIAL FEATURES		
BIRD SCREEN	X	X
OPTIONS GAGE	-	-
GAGE	-	-
MATERIAL(AI)(FIBR.GL)(STEEL)	STEEL	STEEL
DAMPER	X	X
BUILT IN DISCONNECT	X	X
NOTES:	① ② ③	① ② ④

- PROVIDE BACKDRAFT DAMPER, DISCONNECT SWITCH, AND VIBRATION ISOLATORS FOR CEILING HANGING.
- PROVIDE AND INSTALL ROOF CAP.
- FAN SHALL BE INTERLOCKED WITH RTU-1.
- FAN SHALL BE INTERLOCKED WITH RTU-4.

PACKAGE A/C UNIT SCHEDULE					
UNIT DESIGNATION	RTU-1	RTU-2	RTU-3,4	RTU-5	RTU-6,7
MANUFACTURER	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER
MODEL NO.	50L0007C2C5-0A0A0	50L0008G2C5-0B0A0	50L0008G2C5-0B0A0	50L0008G2C5-0B0A0	50L0007C2C5-0A0A0
SYSTEM TYPE	3-STAGE W/HUMIDIFIER	3-STAGE W/HUMIDIFIER	3-STAGE W/HUMIDIFIER	2-STAGE W/HUMIDIFIER	3-STAGE W/HUMIDIFIER
SEER/EER/PLV	13.1 EER/20.7 IEER	13.1 EER/19.9 IEER	13.1 EER/19.9 IEER	16.2 SEER	13.1 EER/20.7 IEER
NOMINAL TONS	6.0	7.5	7.5	5.0	6.0
TOTAL COOLING (MBH)	72,800	89,940	89,940	59,910	72,130
NET SENSIBLE (MBH)	50,870	61,660	61,660	42,950	47,310
WEIGHT (LBS)	1,379	1,947	1,947	855	1,379
DIMENSIONS(LxWxH)	88.1x59.5x42.5	115.9x63.4x58.8	115.9x63.4x58.8	74.4x46.8x41.4	88.1x59.5x42.5
AREA SERVED	1ST FLOOR STUDIOS	2ND FLOOR STUDIOS	MULTI-PURPOSE	SOUTHEAST	DISPLAY AREA

FAN / COIL SECTION					
TYPE	VERTICAL S/A & HORIZONTAL R/A	HORIZONTAL S/A & R/A	HORIZONTAL S/A & R/A	VERTICAL S/A & HORIZONTAL R/A	VERTICAL S/A & HORIZONTAL R/A
TOTAL CFM	2,400	3,000	2,625	2,000	2,100
OUTSIDE AIR CFM	300	300	300	255	300
ENT. AIR DB/WB(°F)	76.0/65.8	75.6/65.1	76.3/66.1	76.1/65.3	76.4/66.2
EXT. SP. (IN WG)	0.75	0.75	0.75	0.75	0.75
FAN MOTOR H.P.	5.8 FLA	5.8 FLA	5.8 FLA	7.1 FLA	5.8 FLA
DRIVE	BELT	BELT	BELT	BELT	BELT
VOLTAGE/PHASE	208/3	208/3	208/3	208/3	208/3

HEATING CAPACITIES					
CAPACITY BTUH	41,000	42,300	42,300	17,000	41,000
TYPE	ELECTRIC	ELECTRIC	ELECTRIC	ELECTRIC	ELECTRIC
KW/VOLTAGE/PHASE	12/208/3	12.4/208/3	12.4/208/3	4.9/208/3	12/208/3
STAGES/KW EACH	1/12	1/12.4	1/12.4	1/4.9	1/12
CONTROL VOLT	24	24	24	24	24

FILTER SPECIFICATIONS					
TYPE	MERV 8	MERV 8	MERV 8	MERV 8	MERV 8
SIZE (2")				16X16	
QUANTITY				4	

CONDENSING SECTION					
TYPE	AIR COOLED	AIR COOLED	AIR COOLED	AIR COOLED	AIR COOLED
REFRIGERANT	R410A	R410A	R410A	R410A	R410A
COMP. NO. TYPE	2/SCROLL	2/SCROLL	2/SCROLL	1/SCROLL	2/SCROLL
COMPRESSOR RLA	8.3 & 13.2	13.2 & 13.7	13.2 & 13.7	16.2	8.3 & 13.2
VOLT/PHASE	208/3	208/3	208/3	208/3	208/3
FAN #/AMPS/VOLTS/Ø	2/1.8/208/3	3/1.8/208/3	3/1.8/208/3	1/3.5/208/3	2/1.8/208/3
MOPF *	50	60	60	50	50
MCA **	49	51	51	36	49
NOTES:	ALL	ALL	ALL	ALL	ALL

- * MAXIMUM OVERCURRENT PROTECTION
** MOTOR CIRCUIT AMPS
- PROVIDE WITH FULL UNIT CURB, 14" HIGH, CARRIER MODEL # CRRFCURB004A01.
 - PROVIDE AND INSTALL PROGRAMMABLE 3-STAGE ELECTRONIC THERMOSTAT WITH HUMIDIFIER CONTROL, CARRIER MODEL # CRSTAT3C001A00--HL--38MG-029 FOR RTU-1,2,3,4,6,7 AND 2-STAGE T-STAT 33CS2PP25-03--HL--38MG-029 FOR RTU-5.
 - PROVIDE AND INSTALL SUPPLY AIR PHOTOELECTRIC SMOKE DETECTOR, IN SUPPLY WITH REMOTE TEST.
 - MODULATING MOTORIZED DAMPER OPTION SHALL BE PROVIDED FOR OUTSIDE AIR INTAKE, INTERLOCK WITH CO2 SENSOR.
 - UNIT SHALL BE PROVIDED WITH FACTORY APPLIED E-COAT AL/CU.
 - UNIT SHALL BE SET ON MEDIUM STATIC MODE.
 - PROVIDE FACTORY INSTALLED HOT GAS REHEAT HUMIDIFIER- DEHUMIDIFICATION PACKAGE.
 - UNITS SHALL BE PROVIDED WITH CO2 SENSOR (NO CO2 FOR RTU-1,2&5), MODULATING MOTORIZED OUTSIDE AIR DAMPER, S/A SMOKE DETECTOR AND SHALL BE INSTALLED BY MECHANICAL CONTRACTOR IN THE FIELD.
 - MAXIMUM OUTSIDE AIR SHOWN BASED ON ASHRAE REQUIREMENTS, MINIMUM SHOWN TO MAINTAIN BUILDING PRESSURIZED DURING UNOCCUPIED MODE AND LOW CO2 LEVELS.
- NOTE: AIR CONDITIONING PACKAGE UNITS MANUFACTURED BY YORK(PREDATOR SERIES, MULTI-STAGE WITH HOT GAS REHEAT) WITH SAME VOLUME AND CAPACITIES ARE CONSIDERED EQUAL. SUBMIT ALL CUT-SHEETS FOR SUBSTITUTED EQUIPMENT.

BUILDING ENVELOPE

TYPE	DESCRIPTION	R-VALUE (ASSEMBLY)	SUMMER U-VALUE	SOLAR HEAT GAIN COEFFICIENT
ROOF	BUILT UP WITH R-19 TAPER INSULATION	R-20	0.049	
WALL(ALL EXCEPT MULTI-PURPOSE)	STUCCO/8"CMU/R-7 BOARD INSULATION/ GYP.	R-11	0.094	
WALL(MULTI-PURPOSE ROOM)	STUCCO/8"CMU	R-3	0.309	
GROUND SLAB	VAPOR RETARDER SLAB ON GRADE		0.100	
GLASS WINDOWS			1.212	0.657
SLIDING GARAGE DOOR	INSULATED		0.30	

KEY NOTES:
THE VALUES SHOWN ABOVE ARE AS PER SPECIFICATIONS GIVEN BY ARCHITECT OR OWNER.
THE VALUES SHOWN ABOVE WERE USED TO SIZE THE HVAC EQUIPMENT AND INPUTTED IN THE ENERGY CALCULATIONS.
NO CHANGES SHALL BE MADE WITHOUT THE WRITTEN APPROVAL OF OWNER, ARCHITECT, AND ENGINEER.

AIR BALANCE SCHEDULE

MARK	SUPPLY AIR	RETURN AIR MAX/MIN	OUTSIDE AIR MAX/MIN	EXHAUST AIR	RELIEF AIR	RESULTING PRESSURE MAX/MIN
RTU-1	2,400	2,100	300	140(EF-1,2)		+160
RTU-2	3,000	2,700	300			+300
RTU-3	2,625	2,525/2,325	300/100			+300/+100
RTU-4	2,625	2,525/2,325	300/100			+300/+100
RTU-5	2,000	1,745	255	560(EF-2,3)		-305
RTU-6	2,100	1,950/1,800	300/150			+300/+150
RTU-7	2,100	1,950/1,800	300/150			+300/+150
TOTAL	15,600	13,395	+2,205	-630		+1,355/+655

AIR DISTRIBUTION SCHEDULE

TYPE	MFG	MODEL	CFM	PATTERN	DAMPER	MOUNTING	SIZE	MAX N.C.
A	TITUS	300FS	SEE PLANS	DOUBLE DEF.	AG-15-AA	SURFACE	SEE PLANS	25
B	TITUS	TMS-AA	SEE PLANS	SEE PLANS	AG-15-AA	SURFACE	24X24	25
R	TITUS	350FL	SEE PLANS	SEE PLANS	-	SURFACE	SEE PLANS	25

MECHANICAL LEGEND	
SYMBOL	DESCRIPTION
O.A.	OUTSIDE AIR
O.A.L.	OUTSIDE AIR LOUVER
R.A.	RETURN AIR
C.F.M.	CUBIC FEET PER MINUTE
(TH)	THERMOSTAT/HUMIDISTAT COMBO
(CO2)	CARBON DIOXIDE SENSOR
(SD)	REMOTE SMOKE DETECTOR TEST STATION
(SD)	SMOKE DETECTOR
A	A= DIFFUSER TYPE
CFM	CFM= DIFFUSER AIR FLOW
FD	UL LISTED FIRE DAMPER
VD	VOLUME DAMPER
MOD	MOTOR OPERATED DAMPER
(TWIST)	TWIST-IN COLLAR WITH DAMPER
(X)	CEILING DIFFUSER - SUPPLY AIR
(V)	TURNING VANES
(SHEET)	SHEET METAL DUCTWORK
(METAL)	METAL LINED
(X)	CEILING DIFFUSER - RETURN AIR
(X)	CEILING DIFFUSER - EXHAUST AIR
(X)	SIDE-WALL DIFFUSER - RETURN AIR
(RL)	REFRIGERANT LIQUID LINE
(RS)	REFRIGERANT SUCTION LINE

DUCT MATERIAL LEGEND				
SYMBOL	MATERIAL	LINER	SMACNA PRESSURE CLASS	SMACNA SEAL CLASS
(SEE NOTES)	SEE NOTES	NONE	1"WG	SEE NOTES
(METAL)	METAL	NONE	1"WG	D

HVAC DESIGN CRITERIA		
OUTDOOR DESIGN:	91°db/78°wb	
INDOOR DESIGN:	73°db 50% R.H	
OUTSIDE AIR MINIMUM:	PER ASHRAE	
MAXIMUM SENSIBLE LOAD:	SEE PLANS	
MAXIMUM LATENT LOAD:	SEE PLANS	
TOTAL COOLING REQUIRED:	SEE PLANS	
CONDITIONED AREA:	SEE PLANS	
TOTAL HEATING REQUIRED WITH O/A:	SEE PLANS	
SIZING METHOD:	CARRIER HAP 4.8	

HVAC DESIGN REQUIREMENTS		
	YES	NO
DUCT SMOKE DETECTOR	X	
FIRE DAMPERS	X	
SMOKE DAMPER(S)	X	X
FIRE RATED ENCLOSURE	X	
FIRE RATED ROOF/FLOOR CEILING ASSEMBLY	X	
FIRE STOPPING	X	
SMOKE CONTROL		X

- ### MECHANICAL NOTES
- DO NOT SCALE THE DRAWINGS. REFER TO ARCHITECTURAL PLANS FOR ALL DIMENSIONS.
 - COORDINATE EXACT LOCATION OF ALL DIFFUSERS AND RETURNS WITH ARCHITECTURAL REFLECTED CEILING PLAN.
 - ALL WORK SHALL COMPLY WITH THE 2010 EDITION OF THE FLORIDA MECHANICAL ENERGY CONSERVATION, ACCESSIBILITY CODES, AND ALL LOCAL CODE AMENDMENTS.
 - ALL PENETRATIONS OF REQUIRED FIRE RATED WALLS AND CEILINGS SHALL BE WITH AN ACCESSIBLE U.L. LABELED FIRE DAMPER.
 - ALL DAMPER CONTROLS SHALL BE ACCESSIBLE.
 - ALL OUTSIDE AIR DUCTS OR INTAKES SHALL HAVE DAMPERS.
 - THE LICENSED CONTRACTOR SHALL PROVIDE A COMPLETE MECHANICAL SYSTEM(S) AS DETAILED ON THE DRAWINGS AND SPECIFICATIONS. WORK CONSISTS OF PROVIDING ALL MATERIALS, EQUIPMENT, APPURTENANCES, ETC. REQUIRED FOR A COMPLETE SYSTEM(S). INCLUDE ANY INCIDENTAL APPURTENANCES, MATERIALS, LABOR, PERMITS, SERVICES, ETC. NECESSARY TO MAKE WORK COMPLETE AND READY FOR OPERATION. IT IS THE INTENT OF THE DRAWINGS AND SPECIFICATIONS TO CALL FOR COMPLETE, FINISHED WORK, TESTED, AND READY FOR OPERATION.
 - THE CONTRACTOR SHALL PERFORM ALL WORK IN A FIRST CLASS WORKMAN-LIKE MANNER.
 - THE CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING CONFLICTS IN THE DRAWINGS AND SPECIFICATIONS PRIOR TO BIDDING AND REPORTING CONFLICTS TO THE ENGINEER BEFORE BIDDING. ANY CHANGES RESULTING FROM CONFLICTS IN THE FIELD, WHICH WERE NOT BROUGHT TO THE ENGINEER'S ATTENTION, ARE TO BE MADE BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
 - THE WORK INDICATED ON THE DRAWINGS IS DIAGRAMMATIC AND IS INTENDED TO CONVEY THE SCOPE OF WORK AND INDICATE THE GENERAL ARRANGEMENT OF PIPING, DUCTWORK, EQUIPMENT, ETC. DO NOT SCALE THE DRAWINGS FOR THE EXACT LOCATION OF DUCTWORK, PIPING, EQUIPMENT, ETC. PROVIDE OFFSETS AND DEVIATIONS FROM WORK SHOWN ON THE DRAWINGS AS MAY BE NECESSARY TO FIT ACTUAL SPACE CONDITIONS AT NO ADDITIONAL COST TO THE OWNER.
 - AIR CONDITIONING SUPPLY & RETURN DUCTS INSIDE BUILDING SHALL BE DOUBLE WALLED INTERNALLY INSULATED WITH 1 (ONE) INCH THICK INTERIOR INSULATION, CERTAINTED TOUGHGARD "ULTRA" OR JOHNS-MANVILLE "SPIRACOUSTIC" DUCT LINER 1 (ONE) INCH THICK. ALL DROPS AND FITTINGS SHALL ALSO BE LINED. EXCEPT FOR THE FOLLOWING ROOMS: OFFICE 110, OFFICE 111, CLASSROOM 112, INCUBATOR 113, BREAKROOM 114, CORRIDOR 118, WOMEN'S 115 AND MEN'S 117, WHERE IT SHALL BE: FIBERGLASS TYPE 475 E INSTALLED, SEALED AND REINFORCED IN ACCORDANCE WITH THE LATEST EDITION OF "NAIMA" FIBROUS GLASS DUCT CONSTRUCTION STANDARDS AND DETAILS ON THESE PLANS. (1) STATO PRESSURE CLASS, (+/-) UNLESS OTHERWISE NOTED, AND FLEXIBLE DUCT SIMILAR TO HART & COOLEY F214, UL 181, CLASS 1 AIR DUCT WHICH MEETS THE REQUIREMENTS OF NFPA (90A & 90B), INSULATED DUCT, WITH A DOUBLE-PLY POLYESTER CORE AND METALIZED POLYESTER JACKET, INSULATED WITH FIBERGLASS R4.2 DUCT MATERIAL SHALL HAVE A FLAMESPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE DEVELOPED INDEX OF NOT MORE THAN 50 WHEN TESTED IN ACCORDANCE WITH ASTM E 84.
 - AIR CONDITIONING SUPPLY & RETURN DUCTWORK OUTSIDE ABOVE ROOF SHALL BE DOUBLE WALL (R-9 MINIMUM), PAINTED WITH GALVANIZED EXTERIOR SHEET METAL AND SHEET METAL INTERIOR, ALL SEAMS SEALED.
 - ALL EXHAUST DUCTS SHALL BE SHEET METAL, INSTALLED, SEALED AND SUPPORTED IN ACCORDANCE WITH THE LATEST EDITION "SMACNA" LOW VELOCITY DUCT CONSTRUCTION STANDARDS AND DETAILS ON THESE PLANS.
 - REFRIGERANT PIPING SHALL BE COPPER, REFRIGERATION GRADE, SOFT TEMPER, SEALED AT THE MILL. INSULATE SUCTION PIPE INDOORS: WITH 3/8" IMCOA POLYOLEFIN INSULATION; OUTDOORS: 3/4" IMCOA POLYOLEFIN INSULATION. CIRCULATE DRY NITROGEN THROUGH PIPING WHEN SOLDERING. TEST FOR LEAKS PRIOR TO CHARGING SYSTEM WITH R-410A REFRIGERANT.
 - PROVIDE TEST & BALANCE REPORT AT COMPLETION OF PROJECT PRIOR TO FINAL INSPECTION.
 - PROVIDE SHOP DRAWINGS FOR ALL EQUIPMENT. MECHANICAL CONTRACTOR SHALL NOT ORDER ANY EQUIPMENT WITHOUT A APPROVED SHOP DRAWING FROM THE MECHANICAL ENGINEER.
 - PROVIDE "AS BUILT" DUCTWORK DRAWINGS TO OWNER AT COMPLETION OF PROJECT PRIOR TO FINAL INSPECTION.
 - AS PER 2010 FLORIDA BUILDING CODE-ENERGY CONSERVATION, SECTION 503.2.5.4, BOTH OUTDOOR AIR SUPPLY AND EXHAUST SYSTEMS SHALL BE EQUIPPED WITH DAMPERS THAT WILL AUTOMATICALLY SHUT WHEN THE SYSTEMS OR SPACES SERVED ARE NOT IN USE. VENTILATION OUTSIDE AIR DAMPERS SHALL BE CAPABLE OF AUTOMATICALLY SHUTTING OFF DURING PREOCCUPANCY BUILDING WARMUP, COOLDOWN, AND SETBACK, EXCEPT WHEN VENTILATION REDUCES ENERGY COSTS (E.G., NIGHT PURGE) OR WHEN VENTILATION MUST BE SUPPLIED TO MEET CODE REQUIREMENTS. MOTORIZED DAMPERS SHALL BE NOT LESS THAN A CLASS 1 LEAKAGE-RATED DAMPER WITH A MAXIMUM LEAKAGE RATE OF 4 CFM PER S.F. AT 1" W.G. WHEN TESTED IN ACCORDANCE WITH AMCA 500D.
 - REFRIGERANT CIRCUIT ACCESS PORTS LOCATED OUTDOORS SHALL BE FITTED WITH LOCKING-TYPE TAMPER-RESISTANT CAPS AS PER 2010 FMC-1101.10.
 - CONTRACTOR SHALL PATCH AND REPAIR EXISTING ROOFING MATERIAL AS REQUIRED BY AN APPROVED ROOFING CONTRACTOR FOR ROOFING MEMBRANE ORIGINALLY INSTALLED SO AS NOT TO VOID WARRANTY. CONTRACTOR IS TO PROVIDE REQUIRED STRUCTURAL STEEL FRAMEWORK FOR ADDITIONAL SUPPORT. CONTRACTOR SHALL BE RESPONSIBLE FOR ACQUIRING A STRUCTURAL ENGINEER FOR SIZING OF STRUCTURAL STEEL FRAMEWORK REQUIRED.
 - MOUNT THERMOSTAT AND REMOTE SMOKE TEST STATION AT 48" A.F.F.

- ### SMOKE DETECTOR OPERATION
- SMOKE DETECTORS SHALL AUTOMATICALLY STOP THEIR RESPECTIVE FANS ON THE DETECTION OF SMOKE.
 - SMOKE DETECTORS SHALL BE INSTALLED TESTED AND MAINTAINED IN ACCORDANCE WITH NFPA 72 "FLORIDA FIRE ALARM CODE" AND THE FLORIDA FIRE CODE AND BUILDING CODE.
 - SMOKE DETECTORS SHALL BE CONNECTED TO THE BUILDING FIRE ALARM SYSTEM IN ACCORDANCE WITH NFPA 72.
 - SMOKE DETECTORS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND SHALL BE ACCESSIBLE FOR CLEANING BY INSTALLING ACCESS DOORS OR PANELS IN ACCORDANCE WITH NFPA 90A.
 - DETECTORS SHALL HAVE A REMOTE TEST AND SUPERVISORY ALARM INSTALLED IN A LOCATION ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION. GENERALLY IT SHOULD BE NEXT TO THE UNIT THERMOATAT AND LABELED TO INDICATE FUNCTION AND AIR HANDLING UNIT ASSOCIATED WITH EACH DETECTOR.
 - INTERCONNECT SMOKE DETECTORS SERVING AIR HANDLING UNITS THAT SUPPLY AIR INTO THE SAME CONTIGUOUS SPACE SO THAT IF ONE UNIT SHUTS DOWN BECAUSE OF SMOKE ALL UNITS WITHIN THAT SPACE MUST SHUT DOWN.
 - ACTIVATION OF A SMOKE DETECTOR MAY INDICATE A SUPERVISORY TROUBLE SIGNAL IN LIEU OF A GENERAL ALARM ONLY IF ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION.

MECHANICAL DRAWING LIST

DRAWING NUMBER	DRAWING NAME
M0.1	MECHANICAL NOTES, LEGEND, AND SCHEDULE
M1.1	FIRST FLOOR PLAN-MECHANICAL
M1.2	2ND FLOOR PLAN-MECHANICAL
M2.1	MECHANICAL DETAILS

TYEC HVAC PLUMBING ELECTRICAL
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ISSUED FOR: **SPRAB** 02/13/2015
BIDS 06/25/2015
PERMIT 06/25/2015
CONSTRUCTION
SEAL

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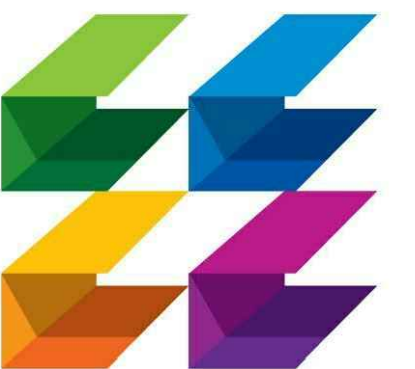
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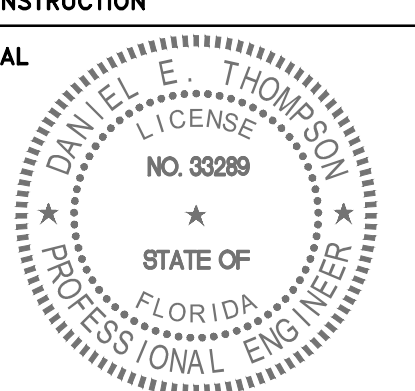
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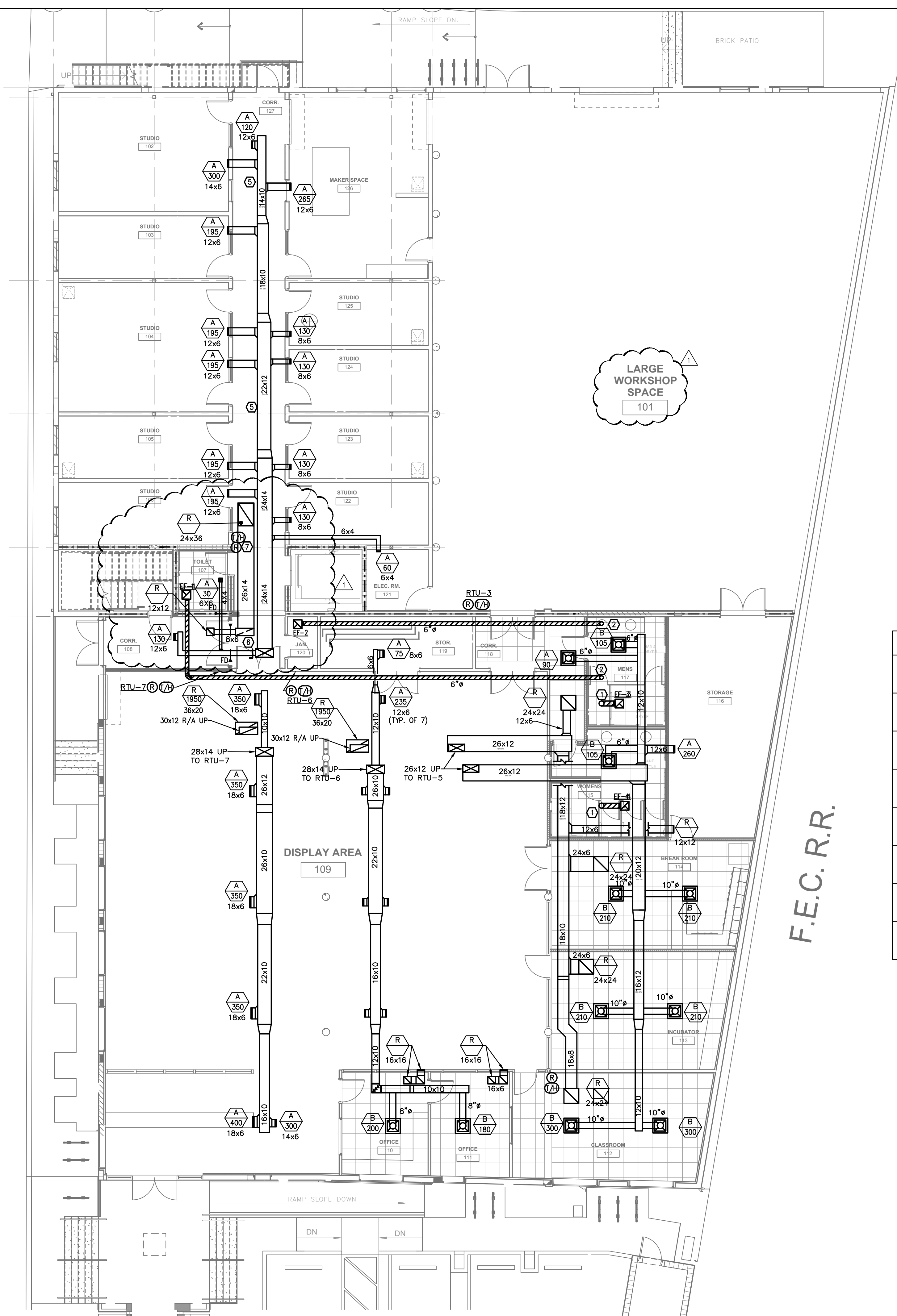
NUM.	DESCRIPTION	DATE
1	Bldg. Dept. comments	08.21.15

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DRAWING TITLE
FIRST FLOOR PLAN MECHANICAL

DATE 06/25/2015 DRAWN BY AA/MT/HL
JOB NUMBER 100701/15009
DRAWING NUMBER

M1.1



PLAN KEY NOTES	
①	8" SHEET METAL UP TO ROOF CAP.
②	6" SHEET METAL UP TO ROOF CAP.
③	ROUTE NEW REFRIGERANT LINES THRU EXISTING ROOF UP TO CONDENSING UNIT.
④	MOUNT THERMOSTAT AND REMOTE SMOKE TEST STATION AT 48" A.F.F. SEE DETAIL OF SMOKE TEST STATION AND AHU DUCT DETECTOR ON SHEET M-2.1.
⑤	ROUTE DUCTWORK TIGHT TO THE UNDERSIDE OF 18" DEEP STRUCTURAL TRUSSES (TYPICAL).
⑥	26x14 UP TO RTU-1.
⑦	MOUNT T-STAT AND REMOTE TEST ON WALL ADJACENT DO CORRIDOR DOOR.

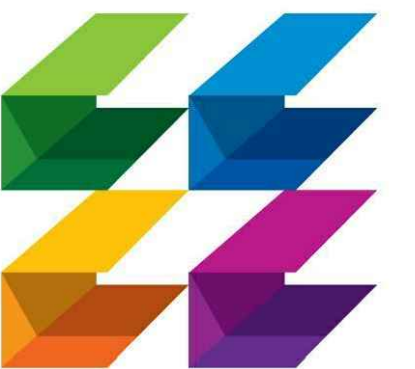
1 FIRST FLOOR PLAN- MECHANICAL
1/8" = 1'-0"

F.E.C. R.R.

TYEC HVAC PLUMBING ELECTRICAL
THOMPSON & YOUNGROSS ENGINEERING CONSULTANTS, LLC
C.O.A NO. 25996
112 SOUTHEAST 10th STREET DELRAY BEACH, FL 33483
TEL: 561-274-0200 FAX: 561-274-0222 E-MAIL: tec@tecflo.com

PERMIT SET 06-29-15

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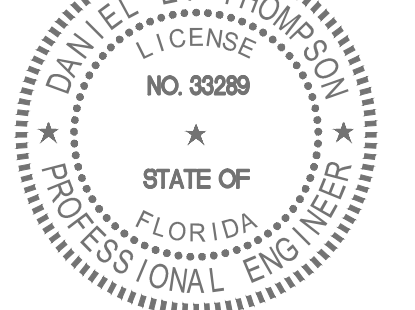
CURRIE SOWARDS AGUILA architects

Architecture, Planning, Interiors, & Sustainable Design

AA26001584
185 NE 4TH AVENUE SUITE 101 DELRAY BEACH, FL 33483
T: (561) 276-4951 F: (561) 243-8184 E-MAIL: office@csa-architects.com

ISSUED FOR :
SPRAB 02/13/2015
BIDS 06/25/2015
PERMIT 06/25/2015

CONSTRUCTION SEAL



PROJECT TITLE
Art Warehouse

313 NE 3rd Street
Delray Bch, Florida, 33444

NUM.	DESCRIPTION	DATE
1	Bldg. Dept. comments	08.21.15

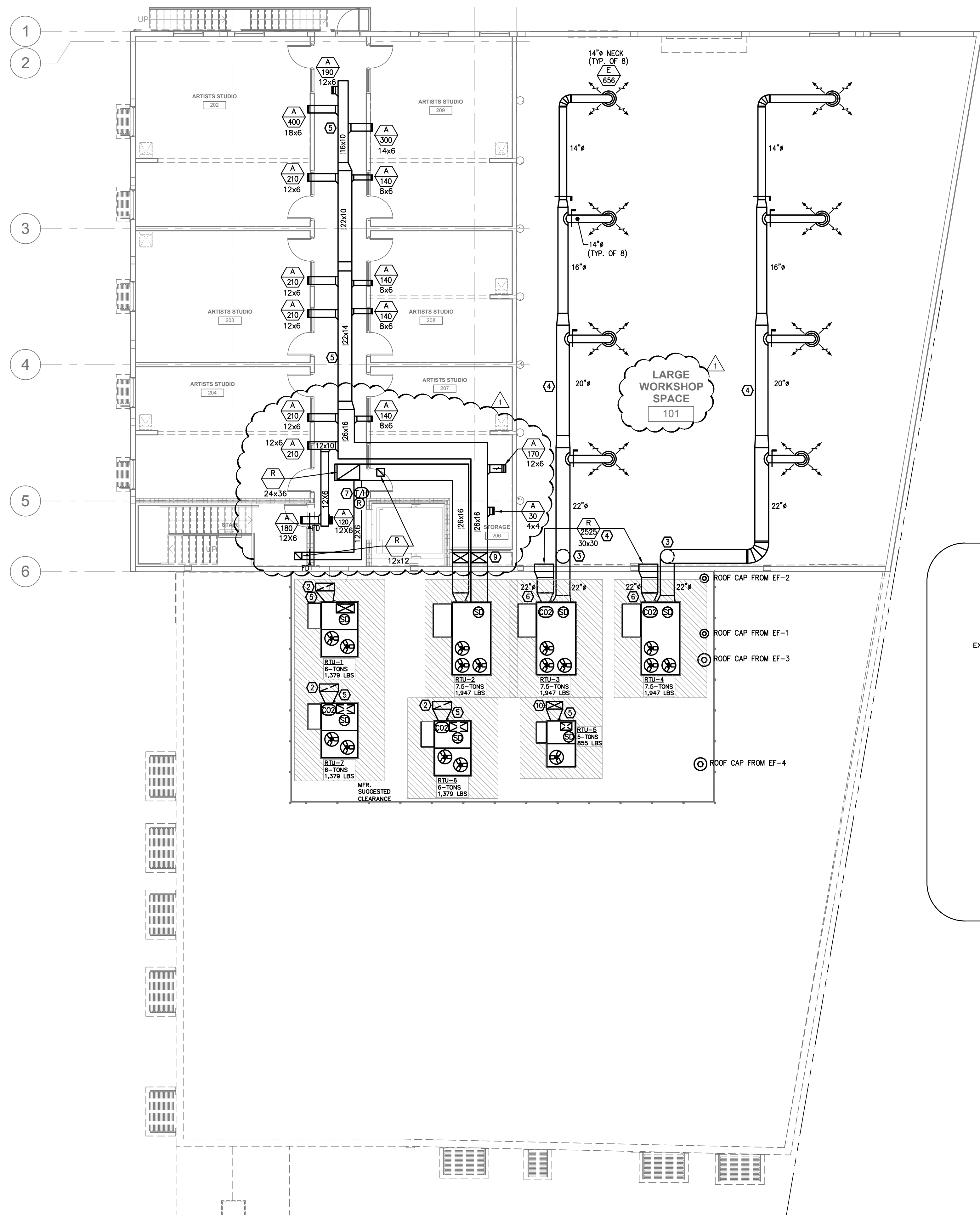
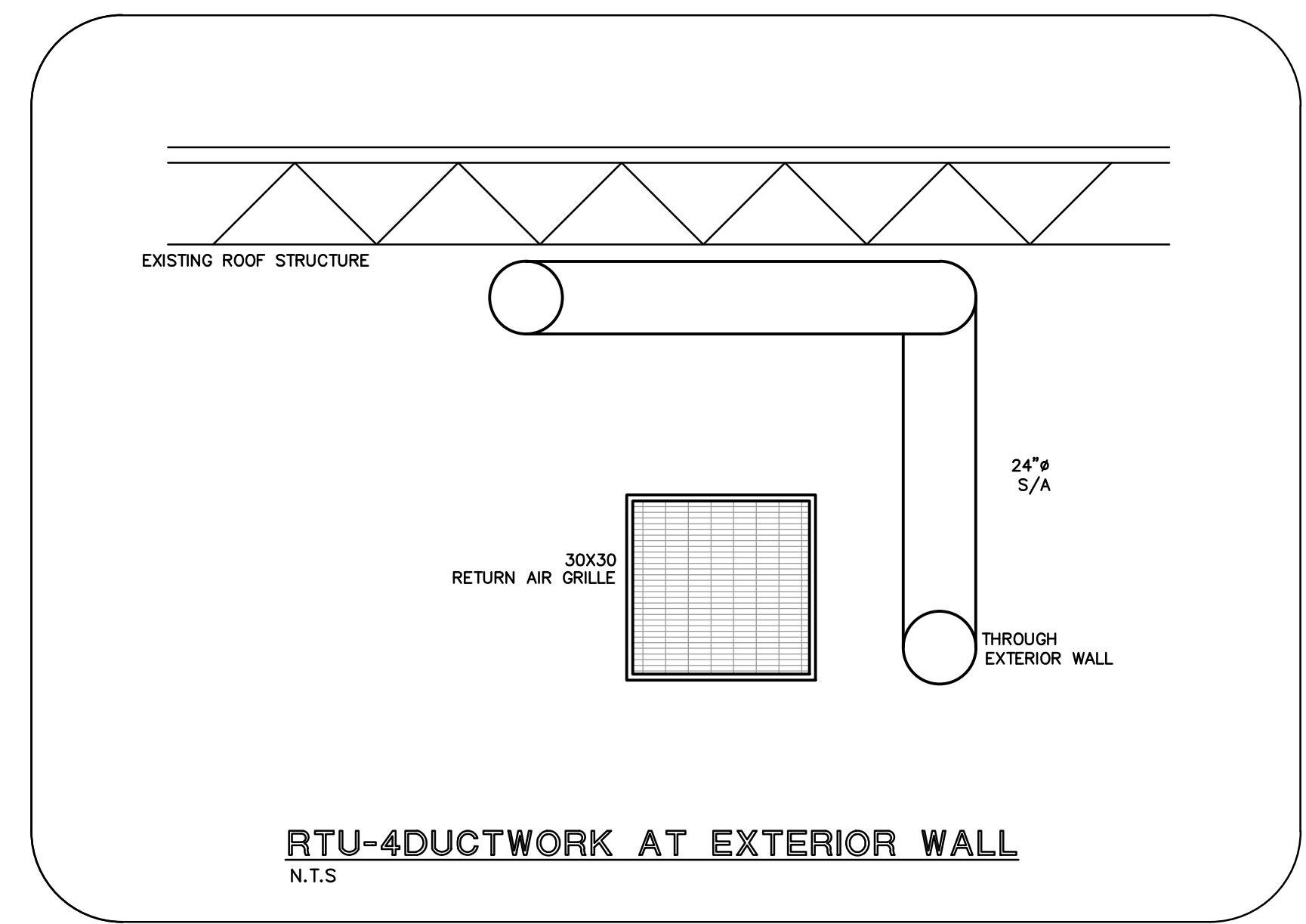
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FILE NUMBER

DRAWING TITLE
2ND FLOOR PLAN MECHANICAL

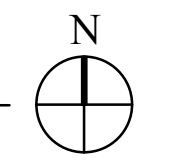
DATE 06/25/2015 DRAWN BY AA/MT/HL
JOB NUMBER 100701/15009
DRAWING NUMBER

M1.2

PLAN KEY NOTES	
①	PROVIDE RTU FACTORY INSTALLED CO2 SENSOR, ECONOMIZER AND S/A SMOKE DETECTOR BUILT INTO UNIT.
②	30x12 DOWN THRU EXISTING INVERTED DOUBLE TEE STRUCTURAL ROOF SLAB. CONTRACTOR SHALL LOCATE OPENING BETWEEN TEES, VERIFY EXACT LOCATION IN THE FIELD.
③	DUCT UP TO JUST BELOW EXISTING METAL TRUSSES.
④	RETURN CFM FLOW SHOWN BASED ON CO2 SENSOR READING LOW CO2 LEVEL AND MODULATING MOTORIZED DAMPER SET TO MINIMUM SETTING.
⑤	DOUBLE WALL RETURN DUCT TO CURBED OPENING AT ROOF PENETRATION. DUCT SHALL BE R8 MINIMUM, DOUBLE WALL, PAINTED GALVANIZED EXTERIOR SHEET METAL AND SHEET METAL INTERIOR, ALL SEAMS SEALED.
⑥	DOUBLE WALL SUPPLY AND RETURN DUCT TO AND THROUGH EXTERIOR WALL PENETRATION. DUCT SHALL BE R8 MINIMUM, DOUBLE WALL, PAINTED GALVANIZED EXTERIOR SHEET METAL AND SHEET METAL INTERIOR, ALL SEAMS SEALED.
⑦	CONDENSING UNITS ON STAND, SEE DETAIL FOR SUPPORTS AND STRUCTURAL ATTACHMENTS SEE STRUCTURAL PLANS AND DETAILS.
⑧	
⑨	ROUTE DUCT THRU EXTERIOR WALL AND THEN UP TO UNDERSIDE OF STRUCTURAL TRUSSES.
⑩	26x12 DOWN THRU EXISTING INVERTED DOUBLE TEE STRUCTURAL ROOF SLAB. CONTRACTOR SHALL LOCATE OPENING BETWEEN TEES, VERIFY EXACT LOCATION IN THE FIELD.



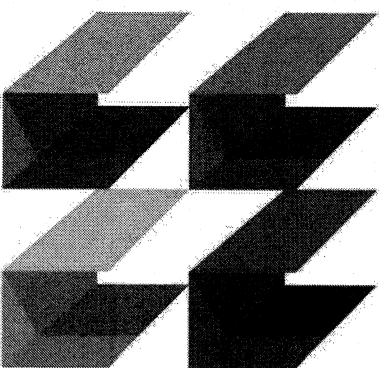
1 SECOND FLOOR PLAN-MECHANICAL
1/8" = 1'-0"



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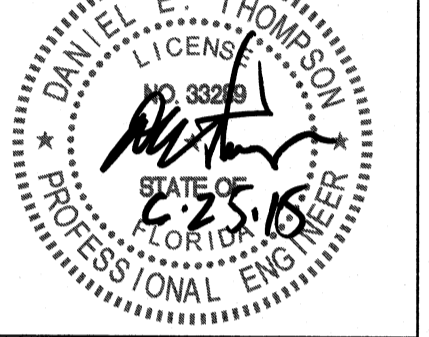
PERMIT SET 06-29-15



**CURRIE
SOWARDS
AGUILA**
architects

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SEAL



PROJECT TITLE
Art Warehouse

313 NE 3rd Street
Delray Bch, Florida, 33444

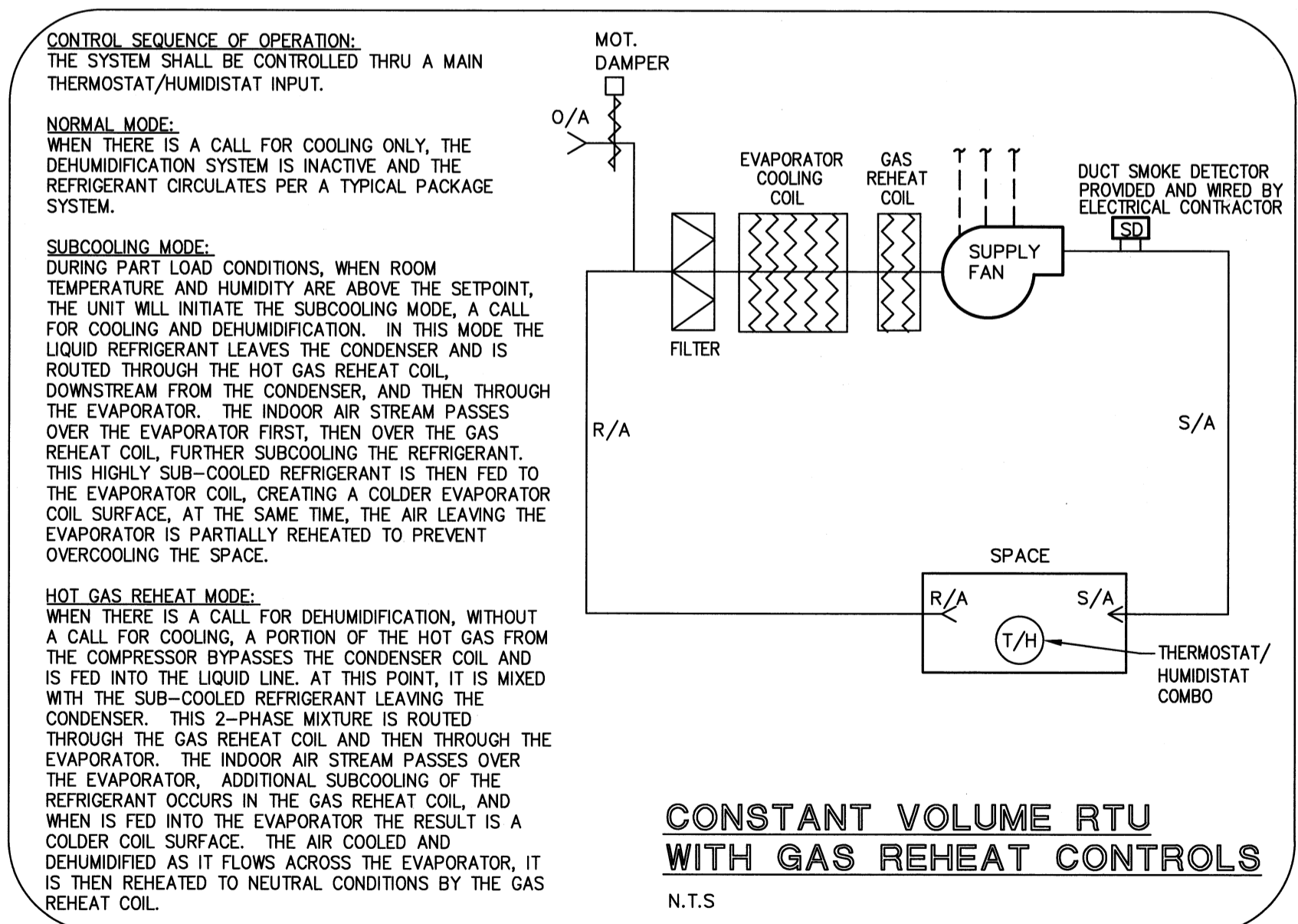
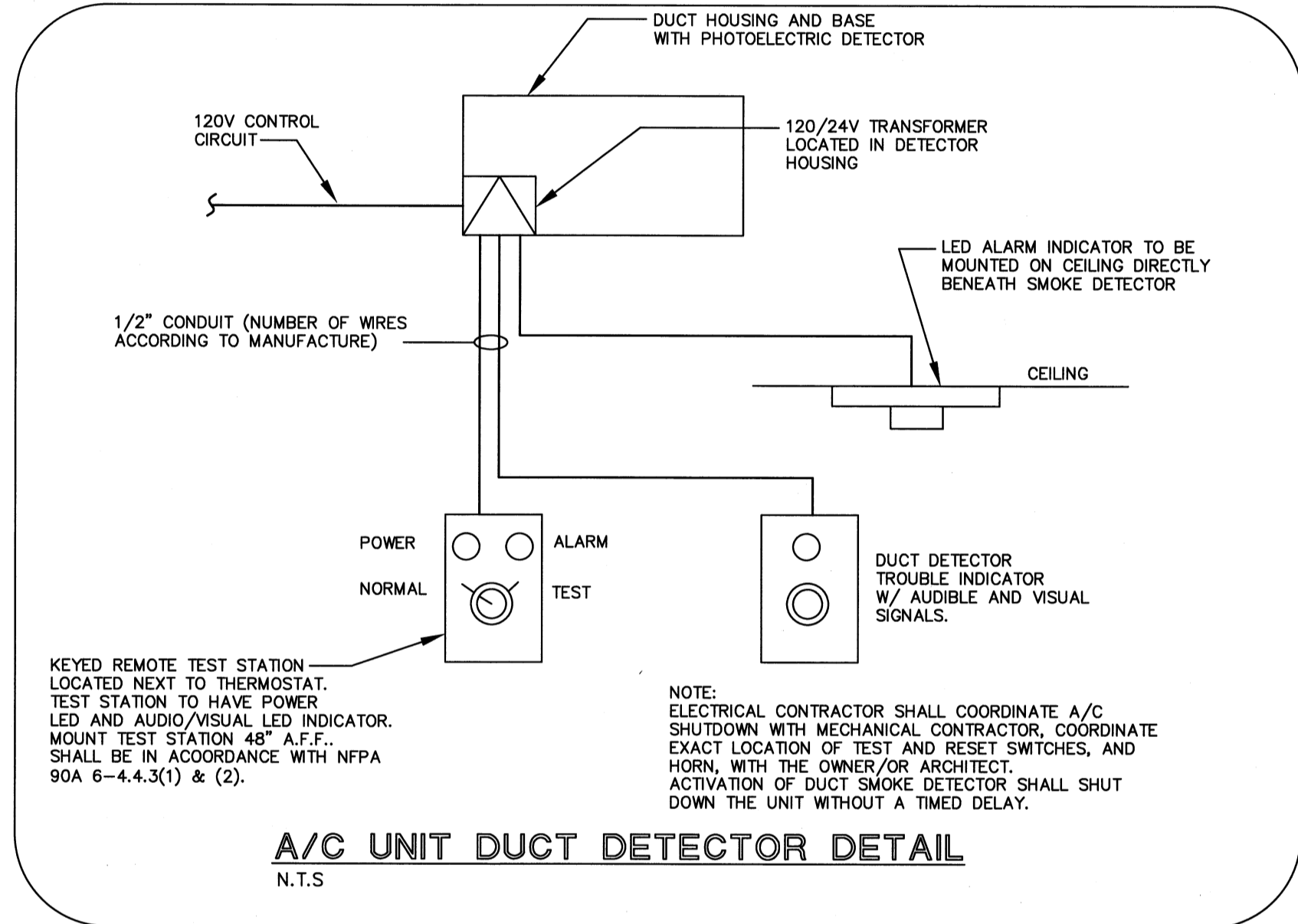
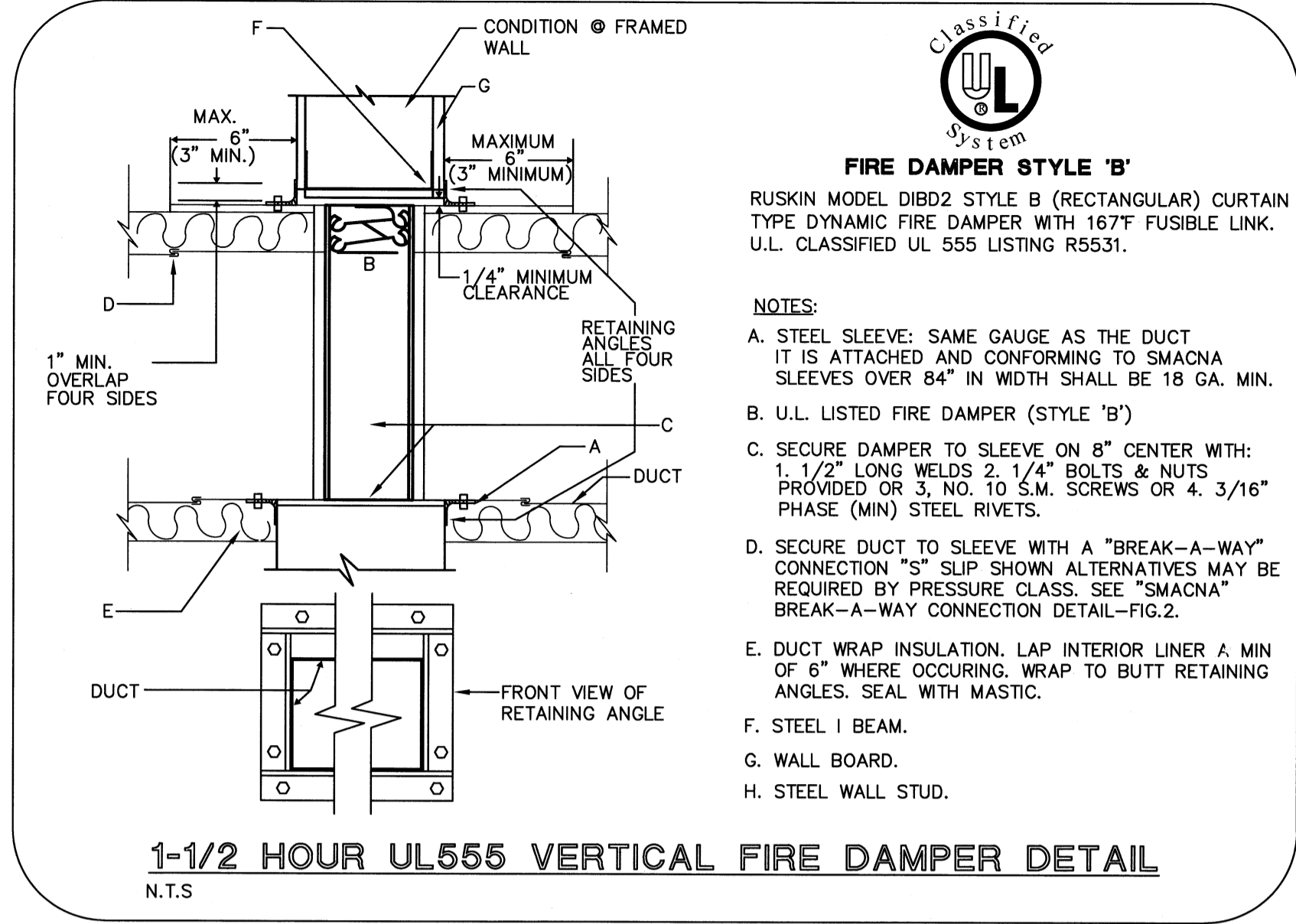
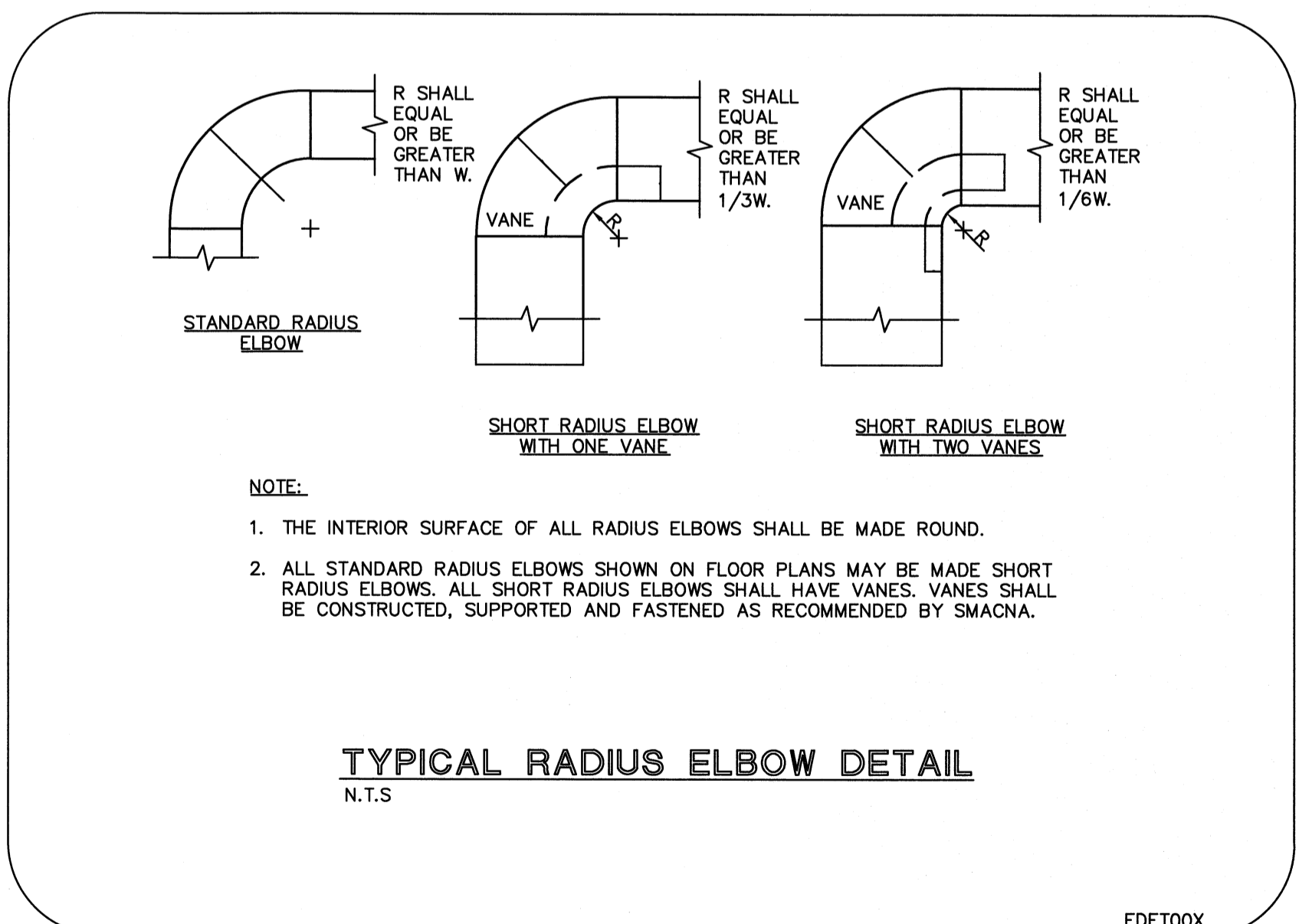
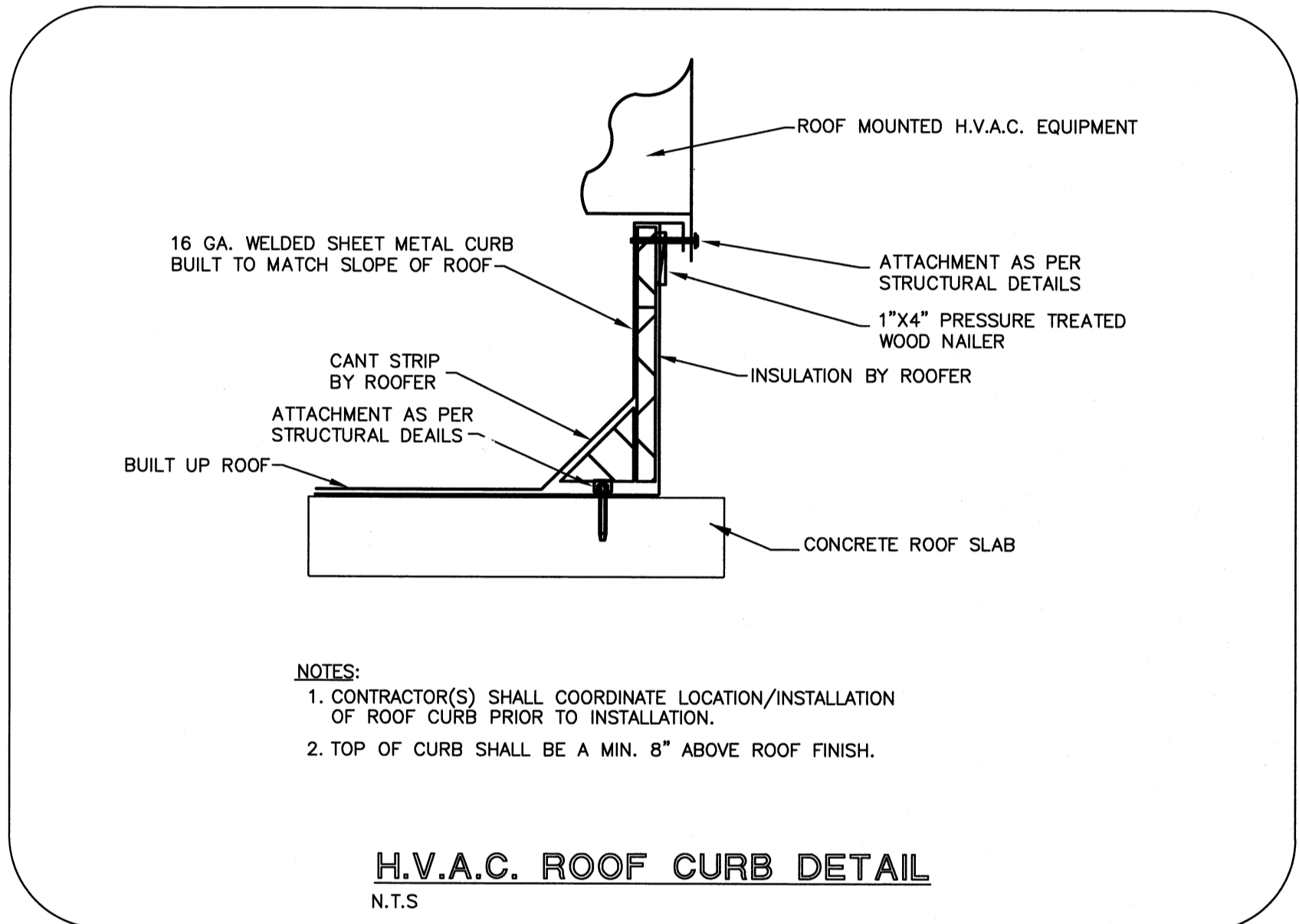
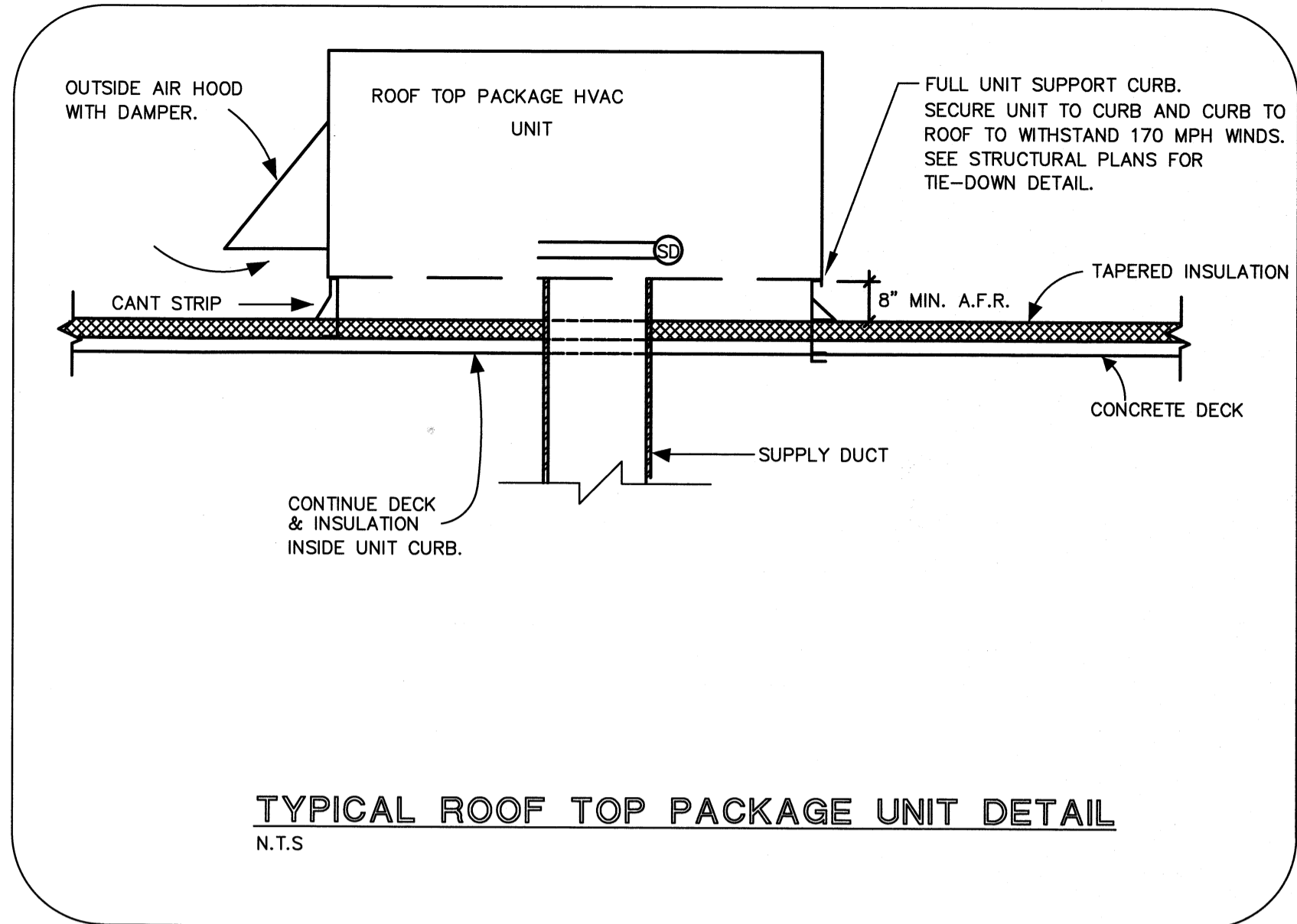
NUM.	DESCRIPTION	DATE

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FILE NUMBER
DRAWING TITLE
**MECHANICAL
DETAILS**

DATE 06/25/2015 DRAWN BY AA/MT/HL
JOB NUMBER 100701/15009
DRAWING NUMBER

M2.1



METAL ROUND DUCT HANGER DETAIL
N.T.S.

HANGER STRAP
3/8" BOLT (MIN.)
BAND SAME SIZE AS HANGER STRAP

SEE TABLE

HANGER SIZES FOR ROUND DUCTS (PER SMACNA METAL AND FLEXIBLE DUCT CONSTRUCTION STANDARDS)				
DIAMETER	MAX SPACING	WIRE DIAMETER	ROD	STRAP
10" AND LESS	12 FT	ONE 12 GA.	1/4"	1" X 22 GA
11"-18"	12 FT	TWO 12 GA OR ONE 8 GA.	1/4"	1" X 22 GA
19"-24"	12 FT	TWO 10 GA.	1/4"	1" X 22 GA
25"-36"	12 FT	TWO 8 GA.	3/8"	1" X 20 GA
37"-50"	12 FT			TWO 3/8" TWO 1" X 20 GA.
51"-60"	12 FT			TWO 3/8" TWO 1" X 18 GA.
61"-84"	12 FT			TWO 3/8" TWO 1" X 16 GA.
85"-96"	12 FT			TWO 1/2" TWO 1-1/2" X 16 GA.

NOTES:
- STRAPS ARE GALVANIZED STEEL; RODS ARE UNCOATED OR GALVANIZED STEEL.
- WIRE IS BLACK ANNEALED, BRIGHT BASIC OR GALVANIZED STEEL. ALL ARE ALTERNATES.
- TABLES ALLOW FOR CONVENTIONAL WALL THICKNESS, AND JOINT SYSTEMS PLUS 1 LB./SQ.FT. INSULATION WEIGHT.
- IF HEAVIER DUCTS ARE TO BE INSTALLED, ADJUST HANGER SIZES TO BE WITHIN THEIR LOAD LIMITS.

METAL DUCT HANGER DETAIL
N.T.S.

60" MAXIMUM
HANGER STRAPS
SELF TAPPING CADMIUM-PLATED
HEX-HEAD SHEET METAL SCREW.
STRAPS TO BE TIGHT AGAINST DUCT.

HANGER SIZES FOR RECTANGULAR DUCTS (PER SMACNA METAL AND FLEXIBLE DUCT CONSTRUCTION STANDARDS)									
MAX. HALF OF DUCT PERIMETER	PAIR AT 10' SPACING		PAIR AT 8' SPACING		PAIR AT 5' SPACING		PAIR AT 4' SPACING		
	STRAP	WIRE/ROD	STRAP	WIRE/ROD	STRAP	WIRE/ROD	STRAP	WIRE/ROD	
P/2=30"	1"X22 GA	10 GA	1"X22 GA	10 GA	1"X22 GA	12 GA	1"X22 GA	12 GA	
P/2=72"	1"X18 GA	3/8"	1"X20 GA	1/4"	1"X22 GA	1/4"	1"X22 GA	1/4"	
P/2=96"	1"X16 GA	3/8"	1"X18 GA	3/8"	1"X20 GA	3/8"	1"X22 GA	1/4"	
P/2=120"	1-1/2"X16 GA	1/2"	1"X16 GA	3/8"	1"X18 GA	3/8"	1"X20 GA	1/4"	
P/2=168"	1-1/2"X16 GA	1/2"	1-1/2"X16 GA	1/2"	1"X16 GA	3/8"	1"X18 GA	3/8"	
P/2=192"	NOT GIVEN	1/2"	1-1/2"X16 GA	1/2"	1"X16 GA	3/8"	1"X16 GA	3/8"	
P/2=193"UP	SPECIAL ANALYSIS								

WHEN STRAPS ARE LAP JOINED USE THESE MINIMUM FASTENERS:

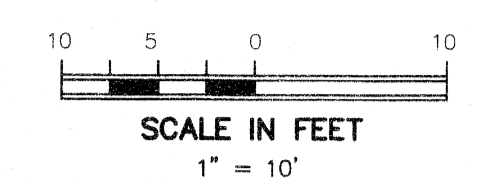
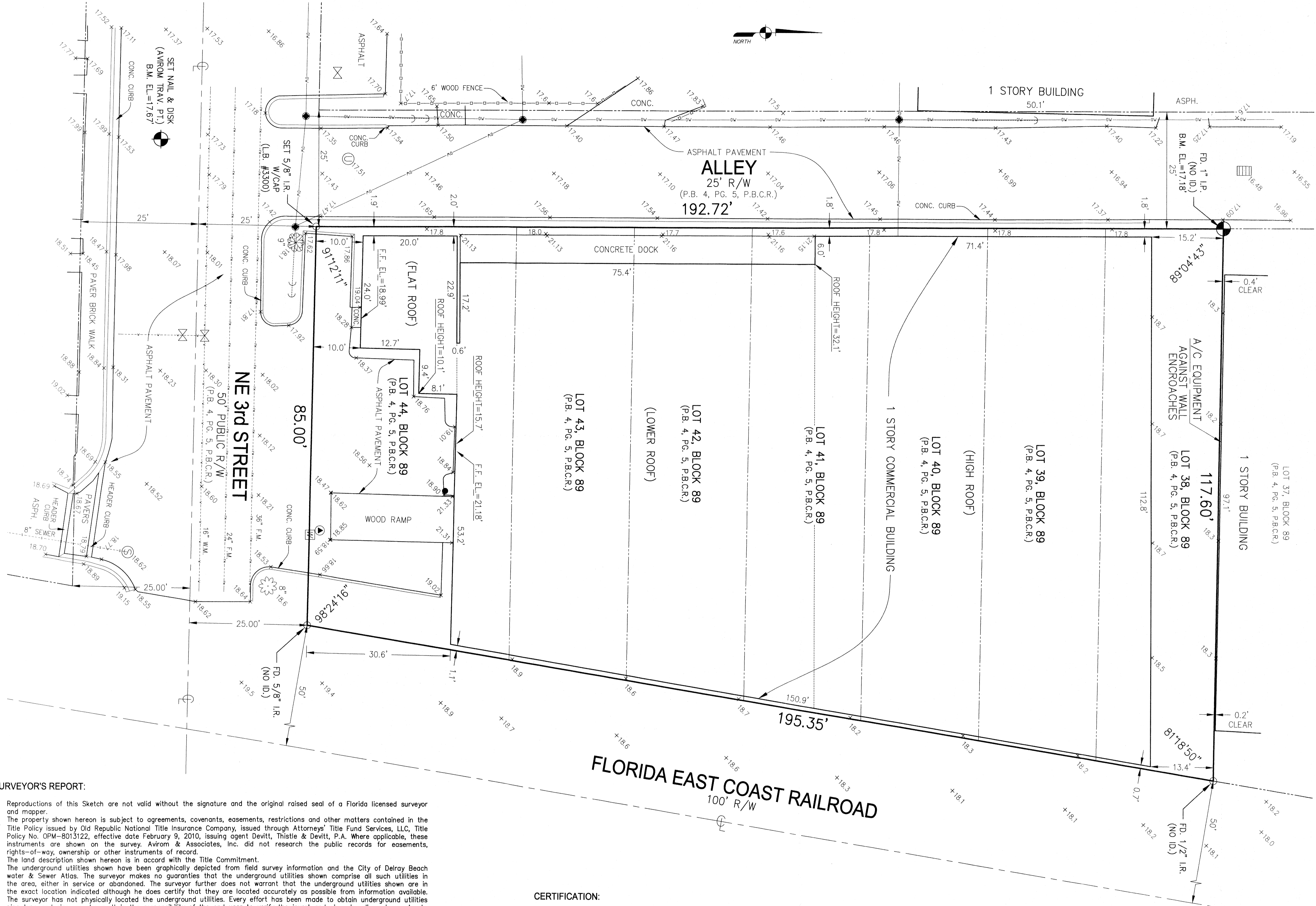
WHEN STRAPS ARE LAP JOINED USE THESE MINIMUM FASTENERS:	SINGLE HANGER MAXIMUM ALLOWABLE LOAD	
	STRAP	WIRE OR ROD (DIA.)
1" X 18, 20, 22 GA - TWO #10 OR ONE 1/4" BOLT	1" X 22 GA - 260 LBS.	0.106" - 80 LBS.
1" X 16 GA - TWO 1/4" DIAMETER	1" X 20 GA - 320 LBS.	0.135" - 120 LBS.
1-1/2" X 16 GA - TWO 3/8" DIAMETER	1" X 18 GA - 420 LBS.	0.162" - 160 LBS.
PLACE FASTENERS IN SERIES, NOT SIDE BY SIDE	1" X 16 GA - 700 LBS.	1/4" - 270 LBS.
	1-1/2" X 16 GA - 1,100 LBS.	3/8" - 680 LBS.
		1/2" - 1,250 LBS.
		5/8" - 2,000 LBS.
		3/4" - 3,000 LBS.

NOTES:
- STRAPS ARE GALVANIZED STEEL; OTHER MATERIALS ARE UNCOATED STEEL.
- 12, 10, OR 8 GAGE WIRE IS STEEL OF BLACK ANNEALED, BRIGHT BASIC, OR GALVANIZED TYPE.
- DIMENSIONS OTHER THAN GAGE ARE IN INCHES.
- TABLES ALLOW FOR DUCT WEIGHT, 1 LB./SQ.FT. INSULATION WEIGHT AND NORMAL REINFORCEMENT AND TRAPEZE WEIGHT, BUT NO EXTERNAL LOADS.
- ALLOWABLE LOADS FOR P/2 ASSUME THAT DUCTS ARE 16 GA MAX., EXCEPT THAT WHEN MAX. DUCT DIMENSION (W) IS OVER 60", THEN P/2 MAX. IS 1.25W.

1:\TYEC Projects 2015\15009_DELRAY ARTS WAREHOUSE\15009-Mech\THIS DOCUMENT IS THE PROPERTY OF CURRIE SOWARDS AGUILA ARCHITECTS INC. ALL RIGHTS ARE RESERVED. ANY POSSESSION, REPRODUCTION OR OTHER USE OF THIS DOCUMENT WITHOUT THE WRITTEN CONSENT OF CURRIE SOWARDS AGUILA ARCHITECTS INC., IS PROHIBITED.

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ENGINEERING CONSULTANTS, LLC
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DELRAY BEACH, FL 33483 FAX: 561-274-0222
www.tyecfla.com E-MAIL: tyc@tyecfla.com

ISSUED FOR 100% REVIEW



LEGEND:

- WATER METER
- ⊕ WOOD UTILITY POLE
- ⊕ GUY ANCHOR
- ⊕ CATCH BASIN
- ⊕ UNKNOWN MANHOLE
- ⊕ SANITARY MANHOLE
- ⊕ SANITARY CLEANOUT
- ⊕ BOLLARD
- ⊕ GUMBO LIMBO TREE
- ⊕ BLACK OLIVE TREE
- ⊕ BENCHMARK
- ⊕ EXISTING ELEVATION

UNDERGROUND UTILITY LEGEND:

- UNDERGROUND FORCE MAIN
- UNDERGROUND SEWER LINE
- UNDERGROUND WATER LINE

SEE SURVEYOR'S REPORT #4

- SURVEYOR'S REPORT:**
- Reproductions of this Sketch are not valid without the signature and the original raised seal of a Florida licensed surveyor and mapper.
 - The property shown hereon is subject to agreements, covenants, easements, restrictions and other matters contained in the Title Policy issued by Old Republic National Title Insurance Company, issued through Attorneys' Title Fund Services, LLC, Title Policy No. OPM-8013122, effective date February 9, 2010, issuing agent Devitt, Thistle & Devitt, P.A. Where applicable, these instruments are shown on the survey. Avrom & Associates, Inc. did not research the public records for easements, rights-of-way, ownership or other instruments of record.
 - The land description shown hereon is in accord with the Title Commitment.
 - The underground utilities shown have been graphically depicted from field survey information and the City of Delray Beach water & Sewer Atlas. The surveyor makes no guarantee that the underground utilities shown comprise all such utilities in the area, either in service or abandoned. The surveyor further does not warrant that the underground utilities shown are in the exact location indicated although he does certify that they are located accurately as possible from information available. The surveyor has not physically located the underground utilities. Every effort has been made to obtain underground utilities pipe type and size, as shown. It is the responsibility of the end user to verify the invert and pipe size dimensions prior to design of new facilities.
 - The entire property described hereon lies within Flood Zone X, Community Panel No. 125102 0002 D, dated 01/05/1989.
 - Elevations shown hereon are in feet and based on the National Geodetic Vertical Datum of 1929 (NGVD 1929).
 - Benchmark Description: X-Cut in walk at southeast corner of NE 2nd Street and Swinton Avenue. Elevation = 20.769 feet (NGVD 29)
 - Symbols shown hereon and in the legend may have been enlarged for clarity. These symbols have been plotted at the center of the field location and may not represent the actual shape or size of the feature.
 - The species of trees as shown hereon were identified to the best of knowledge and ability of the surveyor, without the benefit of an arborist or biologist. It is the responsibility of the end user to verify the identity of the species.
 - Abbreviation Legend: A/C = Air Conditioning; ASPH. = Asphalt; B.M. = Benchmark; C. = Centerline; CONC. = Concrete; EL. = Elevation; FD. = Found; F.F. = Finished Floor; F.M. = Force Main; ID. = Identification; I.P. = Iron Pipe; I.R. = Iron Rod; L.B. = Licensed Business; NGVD = National Geodetic Vertical Datum; OW = Overhead Wires; P.B. = Plat Book; P.B.C.R. = Palm Beach County Records; PG. = Page; P.L.S. = Professional Land Surveyor; PT. = Point; R/W = Right-of-Way; TRAV. = Traverse; W/CAP = With Surveyor's Cap; W.M. = Water Main.

CERTIFICATION:

This survey is certified to: Old Republic National Title Insurance Company, Delray Beach Community Redevelopment Agency, a Florida public body corporate and politic created purs. to Sec. 163.356 F.S.

I HEREBY CERTIFY that the attached Boundary & Topographic Survey of the hereon described property is true and correct to the best of my knowledge and belief as surveyed in the field under my direction. I FURTHER CERTIFY that this Boundary & Topographic Survey meets the Standards of Practice set forth in Chapter 5J-17.050 through 5J-17.052, Florida Administrative Code, pursuant to Section 472.027, Florida Statutes.

Date: 4/20/15

Michael D. Avrom
 MICHAEL D. AVROM, P.L.S.
 Florida Registration No. 3268
 AVIROM & ASSOCIATES, INC.
 L.B. No. 3300
 EMAIL: mike@aviromsurvey.com

LAND DESCRIPTION:

Lots 38, 39, 40, 41, 42, 43 and 44, Block 89, BLOCK 89 DELRAY, according to the Plat thereof, as recorded in Plat Book 4, Page 55, Public Records of Palm Beach County, Florida.

Said lands situate in the City of Delray Beach, Palm Beach County, Florida and containing 19,543 square feet (0.45 acres) more or less.

AVIROM & ASSOCIATES, INC.
 SURVEYING & MAPPING
 60 S.W. 2ND AVENUE, SUITE 102
 DELRAY BEACH, FLORIDA 33444
 TEL: (561) 392-2594 FAX: (561) 394-7125
 WWW.AVIROM-SURVEY.COM
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BOUNDARY & TOPOGRAPHIC SURVEY
LOTS 38 - 44, BLOCK 89
 BLOCK 89 DELRAY
 (PLAT BOOK 4, PAGE 55, P.B.C.R.)
 LYING IN SECTION 16, TOWNSHIP 46 SOUTH, RANGE 43 EAST
 CITY OF DELRAY BEACH
 PALM BEACH COUNTY, FLORIDA

REVISIONS	DATE	F.B./PG.	BY	CKD	REVISIONS	DATE	F.B./PG.	BY	CKD
SHOW ROOF HEIGHTS	08/16/2010		S.A.M.	M.A.					
UPDATE SURVEY, CHANGE DRAWING SCALE	04/27/2015		S.A.M.	M.A.					

SCALE: 1" = 10'
 DATE: 08/05/2010
 BY: S.A.M.
 CHECKED: M.D.A.
 F.B. 1522 PG. 63-65
 SHEET 1 OF 1

JOB #: **2749-1**

DRAINAGE CALCULATIONS FOR 313 NE 3RD AVE
 DELRAY BEACH, FL - EDA PROJECT # 15006

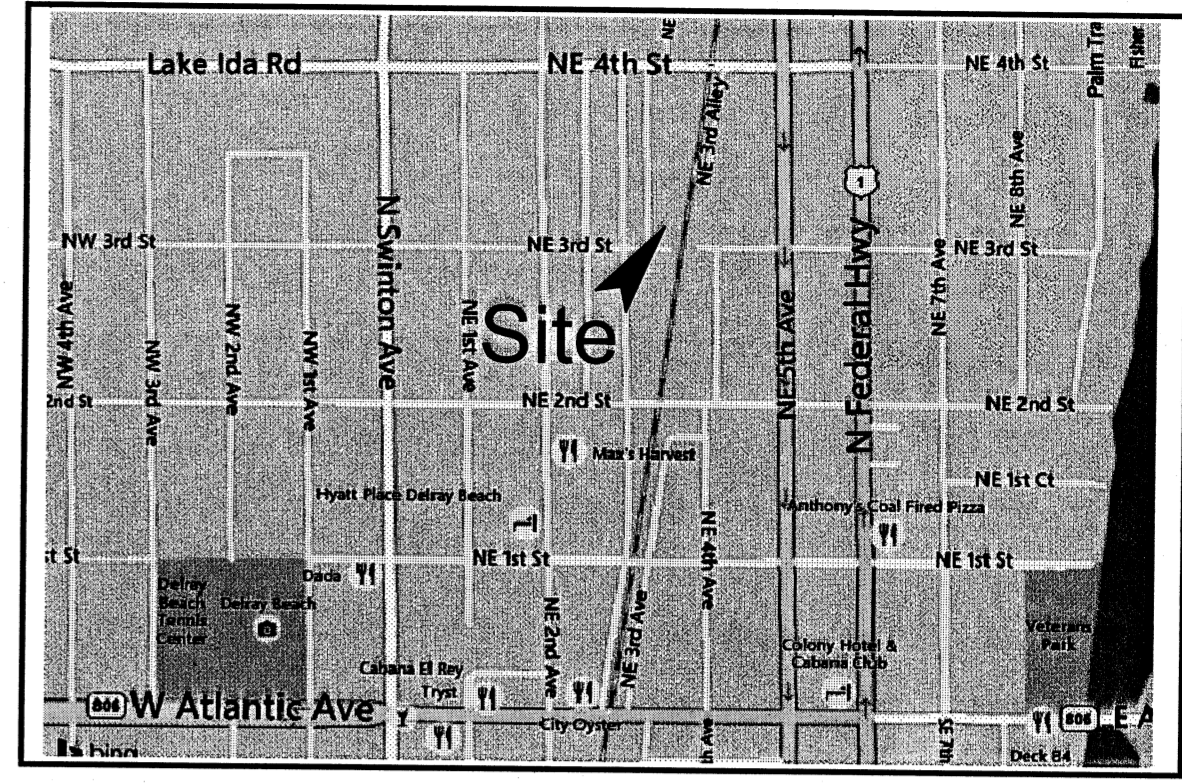
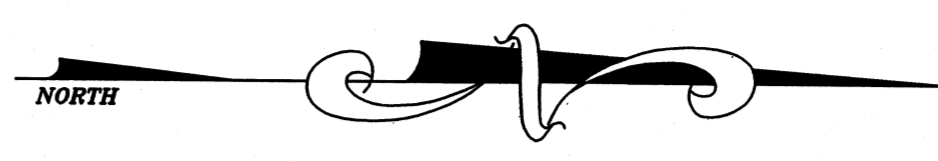
GIVEN: PRE-DEV. PEROUS AREA = 2,584sf
 POST-DEV. PEROUS AREA = 725sf
 INCREASE IN IMPEROUS AREA = 1,859sf

REQUIRED STORAGE: 3.2" OVER INCREASE IN IMPEROUS AREA
 $V = 1,859 \times 3.2 / 12$
 $= 495cf = 0.14Ac-in$

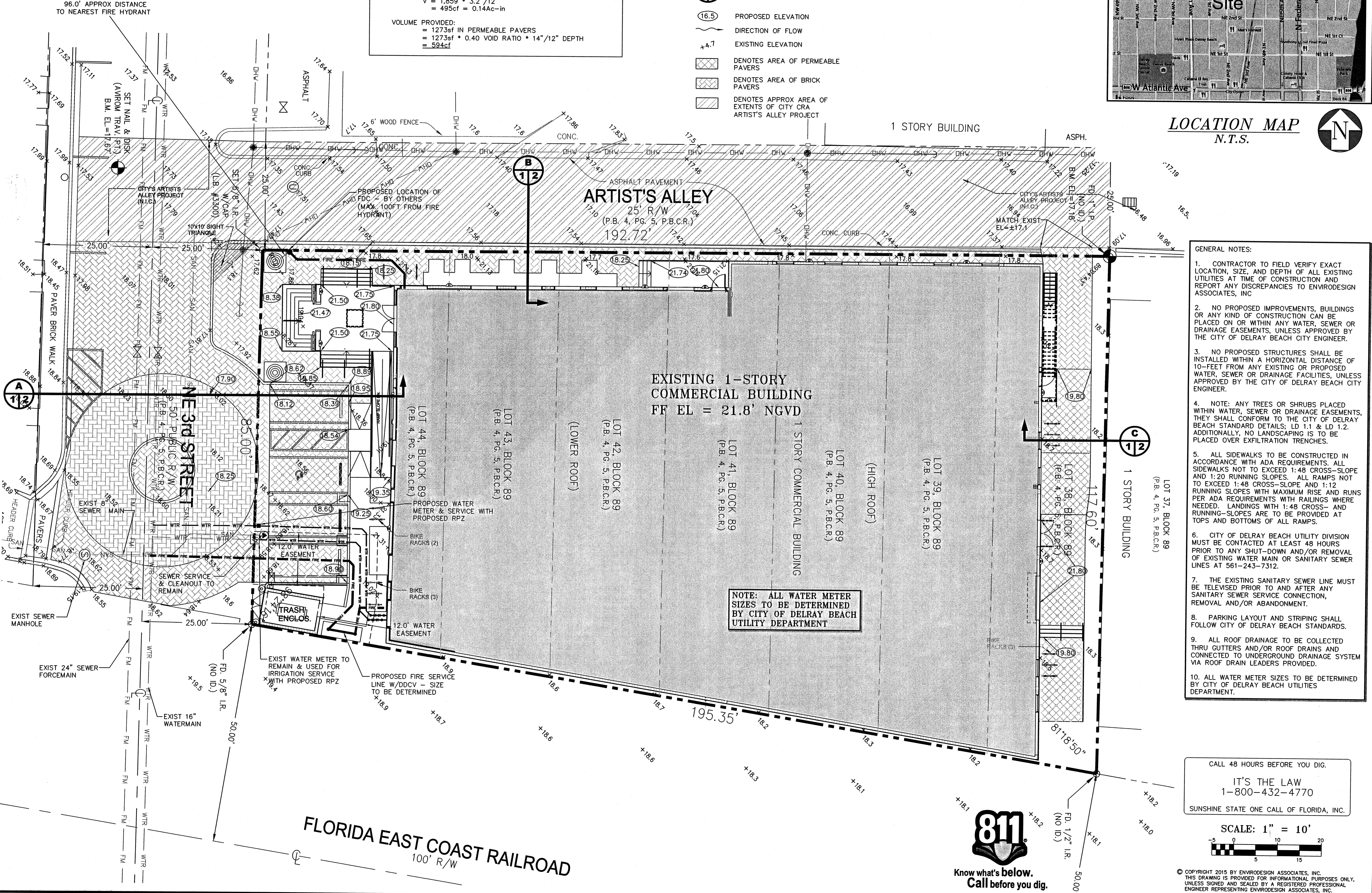
VOLUME PROVIDED:
 $= 1273sf$ IN PERMEABLE PAVERS
 $= 1273sf \times 0.40$ VOID RATIO $\times 14" / 12"$ DEPTH
 $= 594cf$

LEGEND:

- PROPERTY LINE
- (A 11) SECTION IDENTIFIER
- PLAN PAGE
- (16.5) PROPOSED ELEVATION
- DIRECTION OF FLOW
- +A.7 EXISTING ELEVATION
- [Hatched Box] DENOTES AREA OF PERMEABLE PAVERS
- [Cross-hatched Box] DENOTES AREA OF BRICK PAVERS
- [Diagonal Hatched Box] DENOTES APPROX AREA OF EXTENTS OF CITY CRA ARTIST'S ALLEY PROJECT



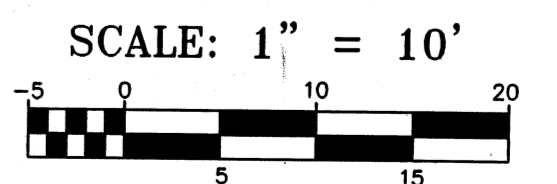
LOCATION MAP
 N.T.S.



- GENERAL NOTES:**
- CONTRACTOR TO FIELD VERIFY EXACT LOCATION, SIZE, AND DEPTH OF ALL EXISTING UTILITIES AT TIME OF CONSTRUCTION AND REPORT ANY DISCREPANCIES TO ENVIRODESIGN ASSOCIATES, INC.
 - NO PROPOSED IMPROVEMENTS, BUILDINGS OR ANY KIND OF CONSTRUCTION CAN BE PLACED ON OR WITHIN ANY WATER, SEWER OR DRAINAGE EASEMENTS, UNLESS APPROVED BY THE CITY OF DELRAY BEACH CITY ENGINEER.
 - NO PROPOSED STRUCTURES SHALL BE INSTALLED WITHIN A HORIZONTAL DISTANCE OF 10- FEET FROM ANY EXISTING OR PROPOSED WATER, SEWER OR DRAINAGE FACILITIES, UNLESS APPROVED BY THE CITY OF DELRAY BEACH CITY ENGINEER.
 - NOTE: ANY TREES OR SHRUBS PLACED WITHIN WATER, SEWER OR DRAINAGE EASEMENTS, THEY SHALL CONFORM TO THE CITY OF DELRAY BEACH STANDARD DETAILS; LD 1.1 & LD 1.2. ADDITIONALLY, NO LANDSCAPING IS TO BE PLACED OVER EXFILTRATION TRENCHES.
 - ALL SIDEWALKS TO BE CONSTRUCTED IN ACCORDANCE WITH ADA REQUIREMENTS. ALL SIDEWALKS NOT TO EXCEED 1:48 CROSS-SLOPE AND 1:20 RUNNING SLOPES. ALL RAMPS NOT TO EXCEED 1:48 CROSS-SLOPE AND 1:12 RUNNING SLOPES WITH MAXIMUM RISE AND RUNS PER ADA REQUIREMENTS WITH RAILINGS WHERE NEEDED. LANDINGS WITH 1:48 CROSS- AND RUNNING-SLOPES ARE TO BE PROVIDED AT TOPS AND BOTTOMS OF ALL RAMPS.
 - CITY OF DELRAY BEACH UTILITY DIVISION MUST BE CONTACTED AT LEAST 48 HOURS PRIOR TO ANY SHUT-DOWN AND/OR REMOVAL OF EXISTING WATER MAIN OR SANITARY SEWER LINES AT 561-243-7312.
 - THE EXISTING SANITARY SEWER LINE MUST BE TELEVIEWED PRIOR TO AND AFTER ANY SANITARY SEWER SERVICE CONNECTION, REMOVAL AND/OR ABANDONMENT.
 - PARKING LAYOUT AND STRIPING SHALL FOLLOW CITY OF DELRAY BEACH STANDARDS.
 - ALL ROOF DRAINAGE TO BE COLLECTED THRU GUTTERS AND/OR ROOF DRAINS AND CONNECTED TO UNDERGROUND DRAINAGE SYSTEM VIA ROOF DRAIN LEADERS PROVIDED.
 - ALL WATER METER SIZES TO BE DETERMINED BY CITY OF DELRAY BEACH UTILITIES DEPARTMENT.

NOTE: ALL WATER METER SIZES TO BE DETERMINED BY CITY OF DELRAY BEACH UTILITY DEPARTMENT

CALL 48 HOURS BEFORE YOU DIG.
 IT'S THE LAW
 1-800-432-4770
 SUNSHINE STATE ONE CALL OF FLORIDA, INC.



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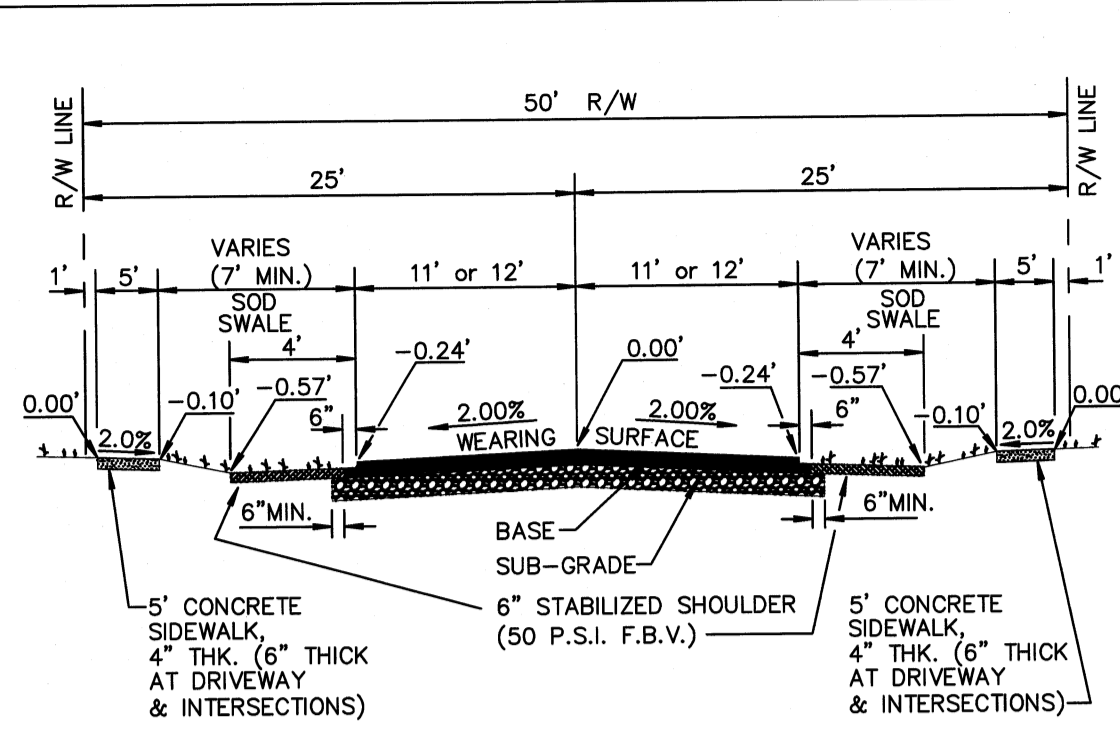
CIVIL SITE IMPROVEMENTS PLAN FOR:
ART WAREHOUSE
313 NE 3RD STREET
DELRAY BEACH, FLORIDA

ENVIRODESIGN ASSOCIATES, INC.
 www.envirodesign.com
 ENGINEERS • ENVIRONMENTAL CONSULTANTS
 FLORIDA CERTIFICATE OF AUTHORIZATION No. 6506
 298 Pineapple Grove Way Delray Beach, Florida 33444
 Phone: (561) 274-8500 Fax: (561) 274-8558

DRAWN: M.T.J.
CHECKED: J.A.P.
DATE: 9/04/15
JOB NO. 15006-ENG
SHEET NO. 1 OF 6

NO. DATE REVISIONS
 1 4/21/15 REVERSE PER CITY COMMENTS FROM 3/30/15
 2 6/29/15 PERMIT SET
 3 9/4/15 REVISED WATER & FIRE SERVICES

SEP 4 2015



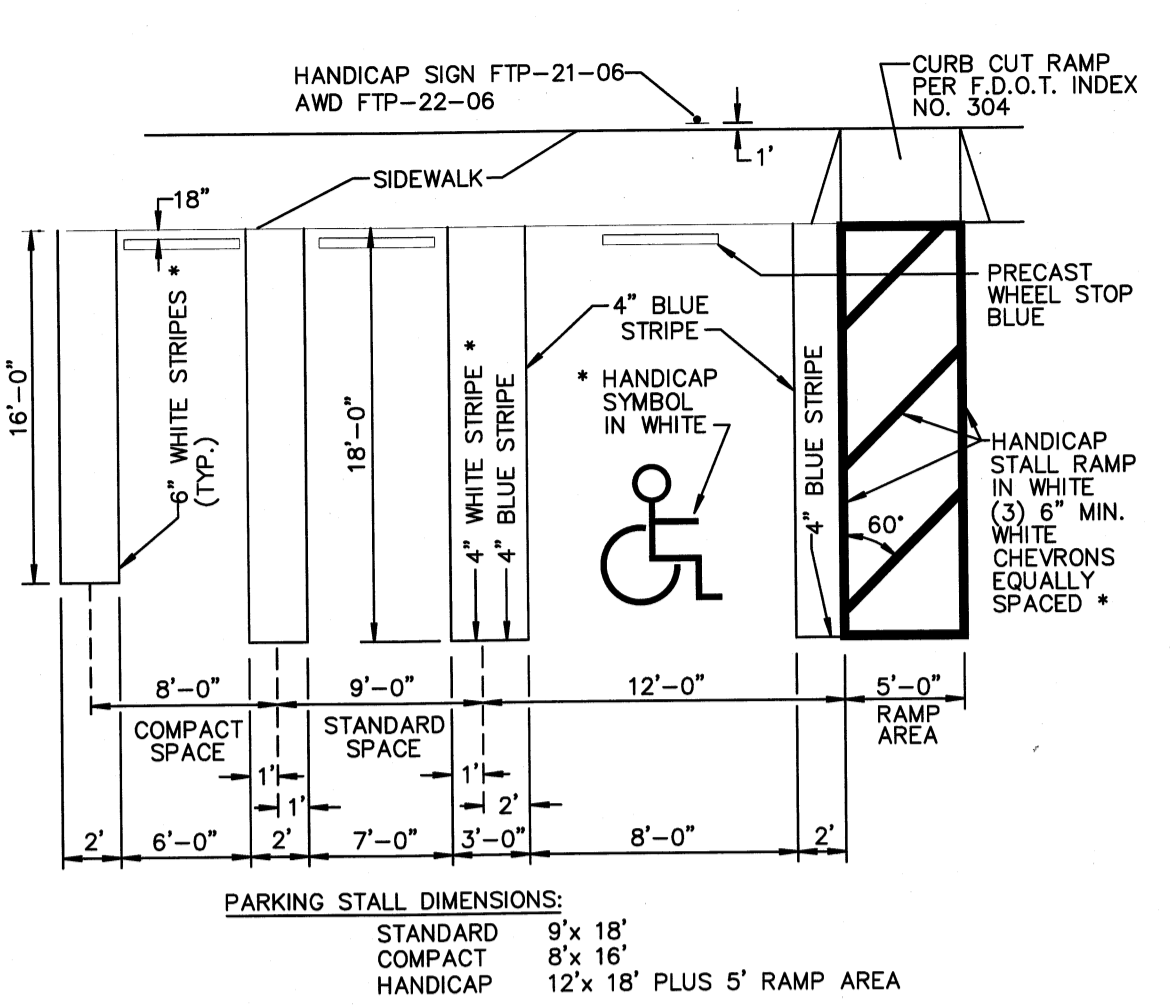
NOTE: 12" COMPACTED SUBGRADE WITH 14" LIMEROCK BASE MAY BE USED IN LIEU OF 12" STABILIZED SUBGRADE & 8" LIMEROCK BASE.

PAVEMENT SPECIFICATIONS	
WEARING SURFACE	1 1/2" TYPE S-III (2 LIFTS) OR 1-1/2" TYPE S-1
BASE	8" LIMEROCK OR 10" CRUSHED CONCRETE COMPACTED TO 98% MAX. DENSITY PER AASHTO T-180. PRIME & TACK COAT PER FDOT SECTION 300.
SUBGRADE	12" STABILIZED (75 P.S.I. FBV) AND COMPACTED TO 98% MAX. DENSITY PER AASHTO T-180.

VARIATION FROM MATERIAL SPECIFICATIONS WILL BE CONSIDERED ON A CASE BY CASE BASIS BY THE CITY ENGINEER.

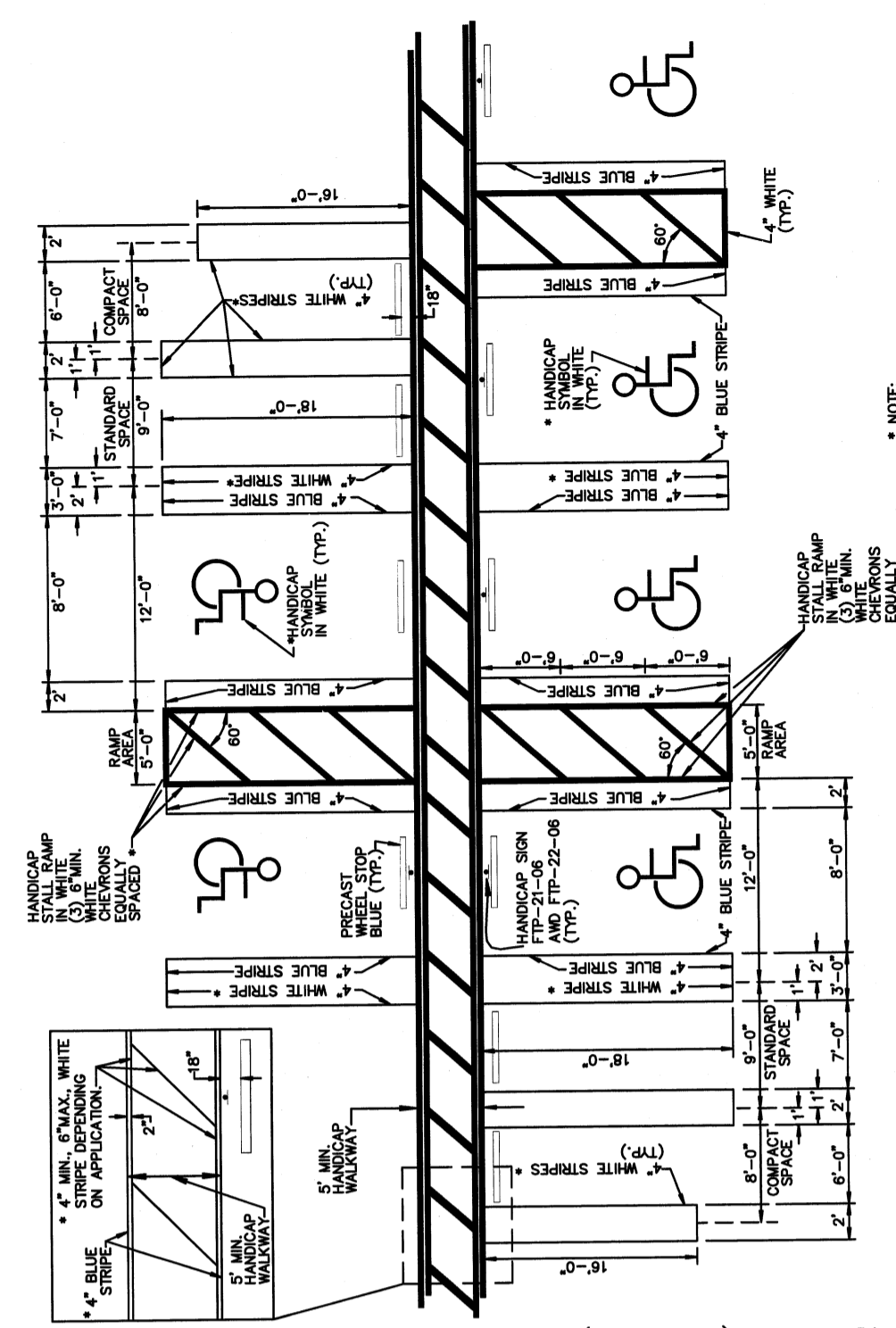
STABILIZE SHOULDER TO 50 P.S.I. F.B.V.

TYPICAL 50' R/W SECTION WITH SWALE
DETAIL RT 1.1b

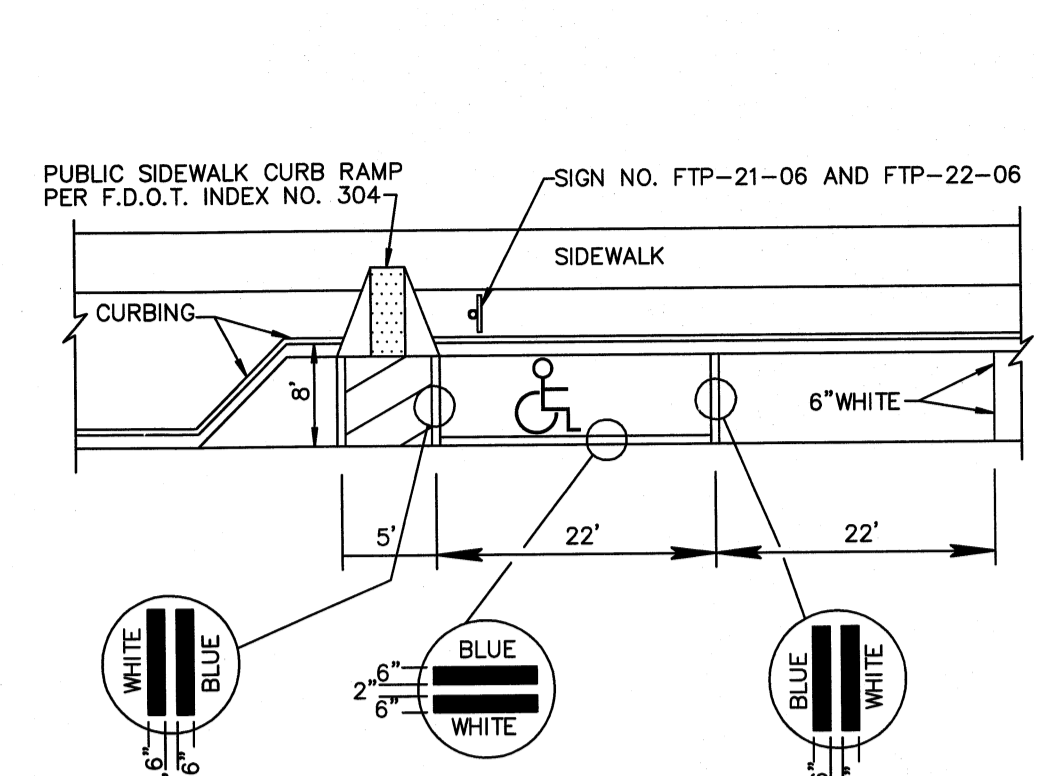


- * NOTES:
- ON LIGHT COLORED SURFACE I.E. CONCRETE ALL HANDICAP MARKINGS SHALL BE BLUE AND STANDARD PARKING STRIPING SHALL BE 3" WHITE WITH 1" BLACK BORDER
 - ALL STRIPING WITHIN PUBLIC RIGHT-OF-WAY SHALL BE 6 INCHES.
 - ALL MEASUREMENTS ARE FROM CENTER LINE.
 - ALL COMPACT SPACES MUST HAVE "COMPACT" STENCILED WITH BLACK PAINT ON WHEEL STOP.
 - BLUE STRIPE & H/C SYMBOL AND WALKWAY ON CONCRETE
 - 24" STOP BAR BETWEEN ALL PARKING LOTS AND PUBLIC R/W SHALL BE THERMOPLASTIC AND PER FDOT SPECIFICATIONS AND STOP SIGN R1-1

TYPICAL PARKING SPACES (1 OF 3)
DETAIL RT 4.2a



TYPICAL PARKING SPACES (2 OF 3) RT 4.2b



- NOTE:
- HANDICAPPED PARKING SPACE MUST BE FIRST OR LAST PARALLEL PARKING SPACE IN THE ROW. ADJACENT TO LANDSCAPE ISLAND. IF SPACE IS AT THE FRONT OF PARKING ROW ACCESS PANEL MUST BE IN FRONT OF CAR AND IF SPACE IS AT THE END OF PARKING ROW ACCESS PANEL MUST BE AT THE REAR OF CAR.
 - WHEN PARKING SPACE IS ADJACENT TO LANDSCAPE ISLAND SPACE MAY BE REDUCED TO 20' FROM THE STANDARD 22' LENGTH.

TYPICAL PARKING SPACES
(3 OF 3)
DETAIL RT 4.2c

PAVEMENT MARKING SPECIFICATIONS

All Pavement markings to be installed per these typicals, plans and specifications, and as directed by the City Engineer and shall conform to the requirements of F.D.O.T. Engineer and the manual on uniform traffic control devices, (MUTCD), and the manual on uniform traffic control devices, (MUTCD).

PERMANENT MARKINGS

- Installation:
- All markings shall be installed by the extruded method.
 - Markings shall be free of weaves, bows, drips, drogs, and other degrading items.
 - Chalk shall be used for all layout markings.
- Materials:
- All materials shall be alkyl or hydrocarbon thermoplastic meeting all FDOT specifications.
- Thickness:
- All markings shall be installed to yield 90 mils of material measured above the pavement surface.
- Spheres:
- Reflective glass spheres are to be applied to all stripes and markings per FDOT specifications.
- Alternate Material:
- STAYMARK marking tape, or equivalent may be used, as approved or directed by the City Engineer.
- Layout:
- Layout shall be made using marking chalk.
 - It is recommended that marking layout be inspected by the City Engineer prior to the placement of final markings.

TEMPORARY MARKINGS

- Temporary markings may be used only as specified in this section, or as approved or directed by the City Engineer.
- Final Pavement Surface:
- Only foil backed marking tape is allowed.
 - All tape shall be totally removed concurrent with permanent marking placement.
- Other Pavement Surfaces:
- Intermediate pavement surfaces may be marked with FDOT approved materials, designs, and specifications.

PAVEMENT MARKING SPECIFICATIONS RT 8.1a
(Sheet 1 of 2)

ALL PAVEMENT MARKINGS

All paved surfaces shall be properly marked prior to the hours of darkness.

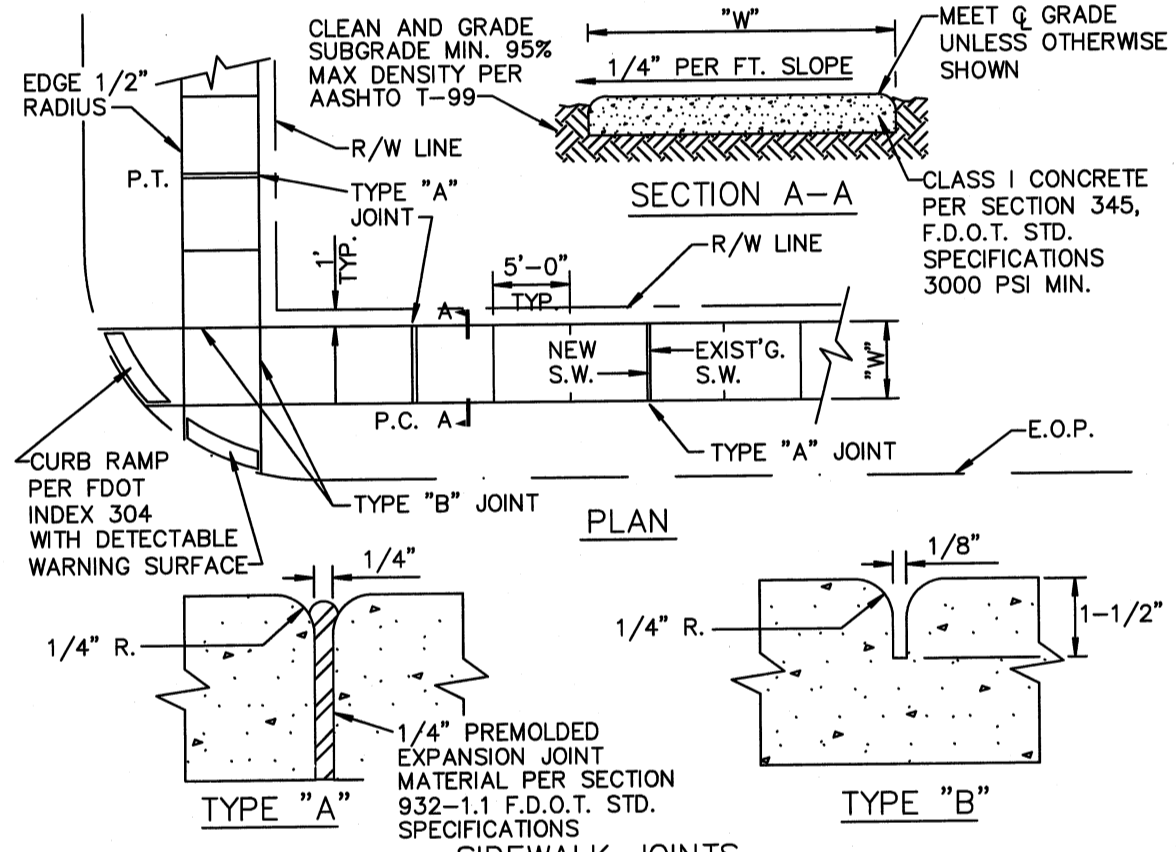
RAISED PAVEMENT MARKERS

- R.P.M.s shall be installed on all lane lines and centerlines, spaced at 20' or 40'.
- R.P.M.s shall be a 4 x 4 type class "B" marker meeting F.D.O.T. specifications and shall be approved by the City Engineer prior to use.
- R.P.M.s shall be installed using alkyl thermoplastic on asphalt and epoxy on concrete.

OTHER NOTES

- All Materials within right-of-way shall be thermoplastic and per F.D.O.T. specifications.
- Pavement marking within private parking lots may be painted according to F.D.O.T. specifications.

PAVEMENT MARKING SPECIFICATIONS RT 8.1b
(Sheet 2 of 2)



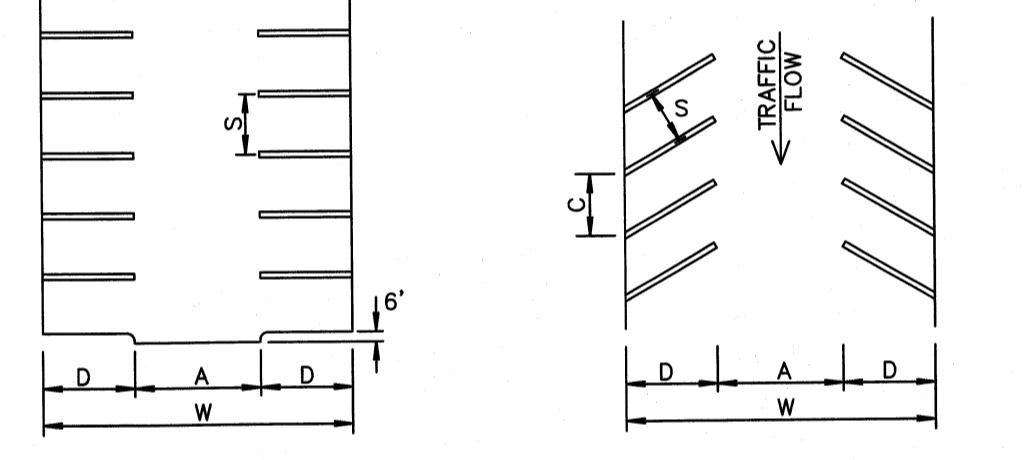
- NOTE:
- ALL SIDEWALKS SHALL BE CONSTRUCTED THRU DRIVEWAYS.
 - ALL SIDEWALKS SHALL INCLUDE ADA COMPLIANT RAMPS @ INTERSECTIONS.
 - ALL SIDEWALKS SHALL INCLUDE CROSS SLOPE AND RUNNING SLOPE IN ACCORDANCE WITH ADA REQUIREMENTS, ADA COMPLIANT RAMPS @ INTERSECTIONS.
 - CURB RAMP DETECTABLE WARNING SURFACE SHALL EXTEND THE FULL WIDTH OF THE RAMP AND 24" DEEP

TABLE OF SIDEWALK THICKNESS - "T"	
RESIDENTIAL AREAS	4"
WITHIN 10' OF CROSS-STREETS, AT DRIVEWAYS & OTHER AREAS	6", 9" @ E.O.P.

TABLE OF SIDEWALK JOINTS	
TYPE	LOCATION
"A"	P.C. AND P.T. OF CURVES JUNCTION OF EXISTING & NEW SIDEWALKS & EVERY 30'
"B"	5'-0" CENTER TO CENTER ON SIDEWALKS SCORED DURING PLACEMENT OR SAWCUT WITHIN 24 HOURS OF PLACEMENT.
"A"	WHERE SIDEWALK ABUTS CONCRETE CURBS, DRIVEWAYS, AND SIMILAR STRUCTURES.

SIDEWALK CONSTRUCTION RT 5.1

90° PARKING 60° AND 45° PARKING



A	aisle	24.0'
S	STALL WIDTH	9.0'
D	STALL DEPTH	18.0'
W	MODULE WIDTH	60.0'

STANDARD		
A	aisle*	17.0' 15.0'
C	STALL LENGTH	10.5' 12.5'
S	STALL WIDTH	9.0' 9.0'
D	STALL DEPTH	20.0' 19.0'
W	MODULE WIDTH	57.0' 53.0'

HANDICAP SPACES		
C		14.0' 17.0'
D		21.5' 21.0'
S		12.0' 12.0'

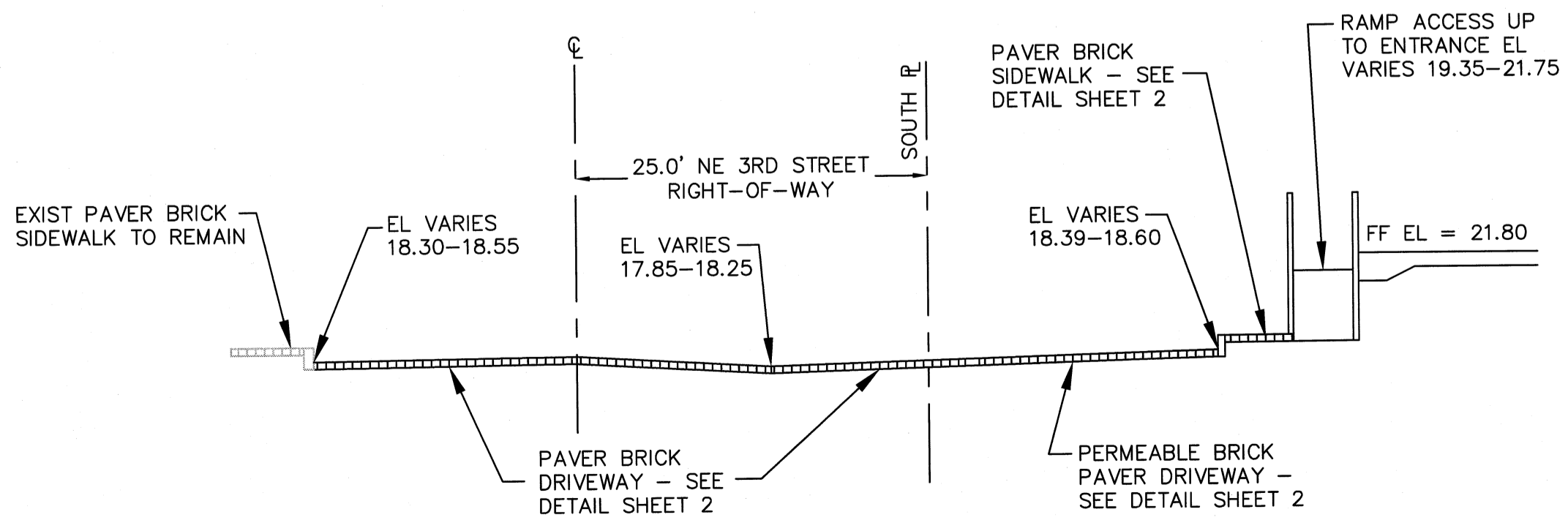
* FOR TWO WAY FLOW A=24.0'

PARALLEL

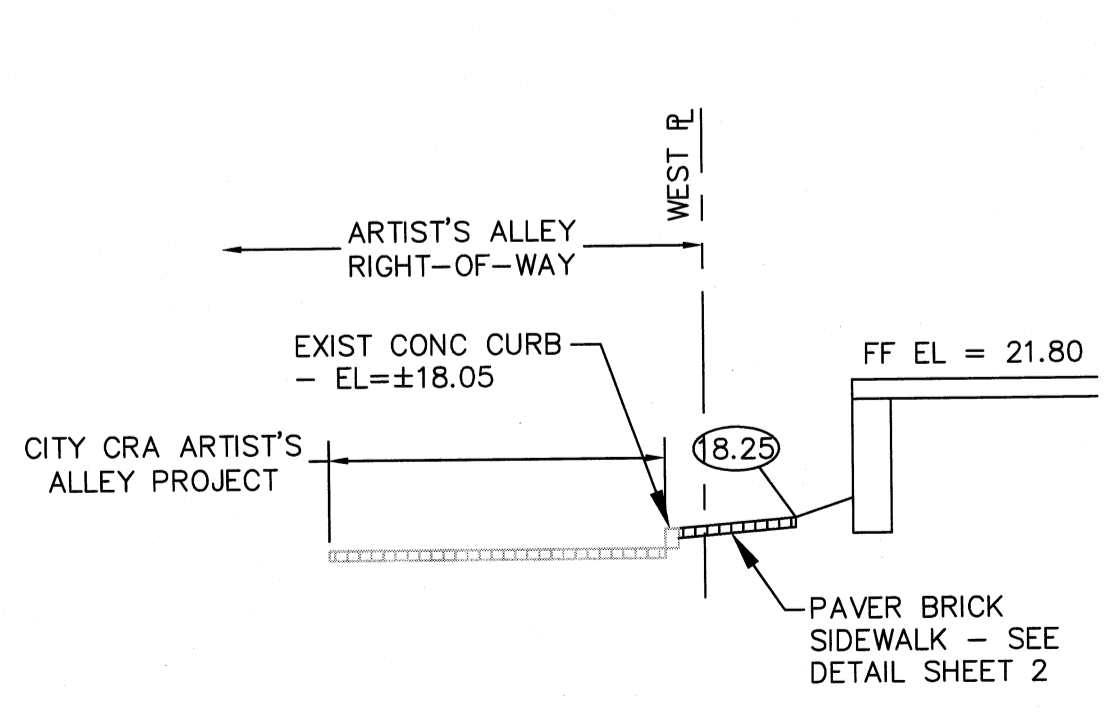
C	STALL LENGTH	22.0'
S	STALL WIDTH	8.0'

NOTE:
REFER TO TYPICAL PARKING SPACE DETAIL RT 4.2 (A TO C) FOR STRIPING INFORMATION AND HANDICAPPED PARKING DIMENSIONS.
STOP BAR BETWEEN PARKING LOT & PUBLIC R/W MUST BE THERMOPLASTIC.

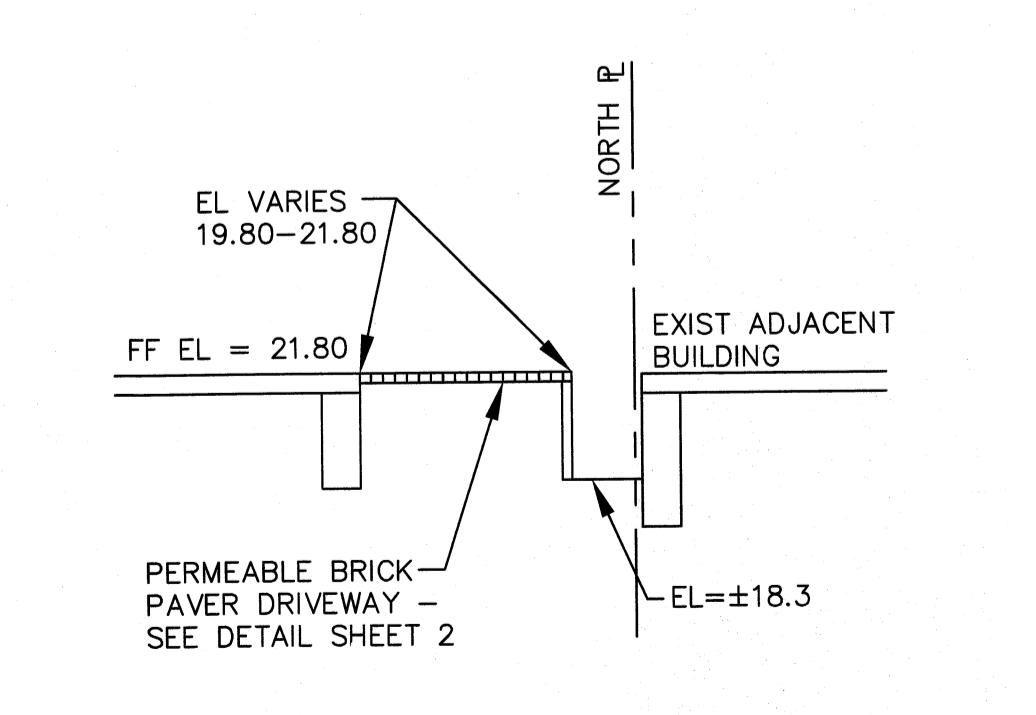
PARKING LOTS DETAIL RT 4.1



A SOUTH SECTION
NOT-TO-SCALE



B WEST SECTION
NOT-TO-SCALE



C NORTH SECTION
NOT-TO-SCALE

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BY: MTJ
DATE: 6/29/15
REVISIONS: PERMIT SET
NO. 15006-DTL

PAVING & DRAINAGE DETAILS FOR:
ART WAREHOUSE
313 NE 3RD STREET
DELRAY BEACH, FLORIDA

EnviroDesign Associates Inc.
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Phone: (561) 274-8500 Fax: (561) 274-8558

DRAWN: M.T.J.
CHECKED: J.A.P.
DATE: 6/25/15
JOB NO. 15006-DTL
SHEET NO. 2 OF 6

PAVING, GRADING AND DRAINAGE NOTES

- ALL PAVING AND DRAINAGE WORK IN THE PALM BEACH COUNTY (PBC) RIGHT-OF-WAY SHALL BE CONSTRUCTED IN FULL ACCORDANCE WITH THE PBC LATEST STANDARDS. ALL PAVING AND DRAINAGE WORK IN THE FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) RIGHT-OF-WAY SHALL BE CONSTRUCTED IN FULL ACCORDANCE WITH THE FDOT LATEST STANDARDS.
- COMPACTED SUBGRADE SHALL BE COMPACTED AND MEET THE DENSITY REQUIREMENTS AS DETERMINED BY THE AASHTO T-180 SPECIFICATIONS. SUBGRADE SHALL EXTEND 12 INCHES BEYOND THE PROPOSED EDGE OF PAVEMENT AND/OR 6" BEYOND VALLEY GUTTER, TYPE "F" CURB & GUTTER, OR TYPE "D" CURB. SUBGRADE SHALL BE 12 INCHES THICK COMPACTED TO 98% ACCORDING TO AASHTO T-180. ALL MUCK, STUMPS, ROOTS OR OTHER DELETERIOUS MATTER ENCOUNTERED IN THE PREPARATION OF THE SUBGRADE SHALL BE REMOVED COMPLETELY FROM THE CENTERLINE OF THE ROADWAY TO A WIDTH OF TEN FEET BEYOND THE EDGE OF PAVEMENT. IF SUBGRADE IS REQUIRED TO BE STABILIZED, THE REQUIRED BEARING VALUE DETERMINATIONS SHALL BE MADE BY THE FLORIDA BEARING TEST, TEST METHOD "C" OF AASHTO T-180 SPECIFICATIONS.
- SHELLROCK BASE SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 250 OF THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION. THE THICKNESS OF THE SHELLROCK BASE SHALL BE AS SHOWN ON THE DETAIL DRAWINGS AND SHALL BE COMPACTED TO A DENSITY OF 98% OF THE MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180. THE SHELLROCK SHALL HAVE A MINIMUM OF 40% CARBONATES OF CALCIUM AND MAGNESIUM IN THE MATERIAL.
- LIMEROCK BASE SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 200 OF THE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION. THE THICKNESS OF THE LIMEROCK BASE SHALL BE AS SHOWN ON THE DETAILED DRAWINGS AND SHALL BE COMPACTED TO A DENSITY OF 98% OF THE MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180.
- MUCK AND PEAT - IF MUCK AND/OR PEAT ARE ENCOUNTERED IN THE ROAD OR PARKING AREA, THEY WILL BE REMOVED COMPLETELY TO A WIDTH OF TEN FEET BEYOND THE EDGE OF PAVEMENT AND SHALL BE BACKFILLED WITH GRANULAR MATERIAL. IF HARDPAN IS ENCOUNTERED IN THE SWALE AREA, IT WILL BE REMOVED TO A WIDTH OF TWO FEET AT THE SWALE INVERT AND REPLACED WITH GRANULAR MATERIAL.
- WHERE SOD IS DESIRED, LOWER THE GRADE 2 INCHES BELOW THE FINISHED GRADE TO ALLOW FOR THE THICKNESS OF THE SOD.
- CLEARING AND GRUBBING - WITHIN THE LIMITS OF CONSTRUCTION ALL VEGETATION AND ROOT MATERIAL SHALL BE REMOVED.
- GUMBO - WHERE GUMBO OR OTHER PLASTIC CLAYS ARE ENCOUNTERED, THEY SHALL BE REMOVED WITHIN THE ROADWAY AND PARKING AREAS ONE FOOT BELOW THE SUBGRADE EXTENDING HORIZONTALLY TO THE OUTSIDE EDGE OF THE SHOULDER AREA.
- PRIME COAT SHALL BE IN ACCORDANCE WITH SECTION 300 OF THE FDOT STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION. PRIME COAT SHALL BE RC-70 OR ASPHALT EMULSION PRIME (AEP). PRIME COAT SHALL BE APPLIED AT A RATE OF APPLICATION NOT LESS THAN 0.10 GALLONS PER SQUARE YARD FOR LIMEROCK BASES AND NOT LESS THAN 0.15 GALLONS PER SQUARE YARD FOR SHELL ROCK OR COQUINA SHELL BASES.
- TACK COAT - BITUMINOUS TACK COAT SHALL CONFORM WITH THE REQUIREMENTS OF THE FDOT SPECIFICATIONS, LATEST EDITION AND SHALL BE APPLIED AT THE RATE OF 0.08 GALLONS PER SQUARE YARD, UNLESS A VARIATION IS APPROVED BY THE ENGINEER.
- ASPHALTIC CONCRETE SURFACE COURSE SHALL BE IN ACCORDANCE WITH SECTION 334 OF THE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION. THE THICKNESS OF THE SURFACE COURSE SHALL BE AS SHOWN ON THE DETAILED DRAWINGS.
- ALL CONCRETE SHALL DEVELOP 2500 p.s.i. (MINIMUM) 28 DAY COMPRESSIVE STRENGTH OR GREATER WHERE NOTED ON PLANS. CLASS I CONCRETE SHALL CONFORM WITH THE FDOT SPECIFICATIONS, LATEST EDITION. CLASS I CONCRETE USED AS PAVING SHALL DEVELOP 3000 p.s.i. (MINIMUM) 28 DAYS COMPRESSIVE STRENGTH.
- PAVEMENT TRAFFIC STRIPES AND MARKINGS SHALL BE IN ACCORDANCE WITH CITY OF DELRAY BEACH CURRENT STANDARDS AND/OR MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, AND/OR PALM BEACH COUNTY TRAFFIC DEPARTMENT TYPICAL T-P-10-001, WHERE APPLICABLE.
- SEQUENCE OF CONSTRUCTION - THE SEQUENCE OF CONSTRUCTION SHALL BE SUCH THAT ALL UNDERGROUND INSTALLATIONS OF EVERY KIND THAT ARE BENEATH THE PAVEMENT, SHALL BE IN PLACE AND HAVE PROPER DENSITY PRIOR TO THE CONSTRUCTION AND COMPACTION OF THE SUBGRADE.
- INLETS AND MANHOLES - ALL INLETS AND MANHOLES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE FDOT SPECIFICATIONS, LATEST EDITION, AND ROADWAY AND TRAFFIC DESIGN STANDARDS, LATEST EDITION, AND PBC STANDARDS LATEST EDITION, WHERE APPLICABLE.
- GRATE ELEVATIONS REFER TO THE FLOWLINE OF THE GRATE.
- GRADES SHOWN ARE FINISHED GRADES.
- MINIMUM ROAD CROWN ELEVATION SHALL BE EL. TBD' N.G.V.D.
- REINFORCED CONCRETE PIPE - THE PIPE SHALL CONFORM WITH THE REQUIREMENTS OF CLASS III OF ASTM C-76 AND WITH THE FDOT SPECIFICATIONS, LATEST EDITION. THE FIRST JOINT OF PIPE ENTERING OR LEAVING A MANHOLE OR INLET SHALL BE WRAPPED WITH FILTER FABRIC PER FDOT SPECIFICATIONS.
- CORRUGATED ALUMINUM PIPE SHALL MEET THE REQUIREMENTS OF AASHTO M196 AND SECTIONS 125, 430 AND 943 OF THE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION.
- MEASUREMENT OF THE LENGTH OF PIPE SHALL BE FROM THE CENTER OF THE STRUCTURE TO THE CENTER OF THE STRUCTURE.
- PIPE BACKFILL - REQUIREMENTS FOR PIPE BACKFILL CROSSING ROADS OR PARKING AREAS SHALL BE DEFINED IN THE FDOT SPECIFICATIONS, LATEST EDITION. PIPELINE BACKFILL SHALL BE PLACED IN SIX INCH LIFTS AND COMPACTED TO 100% OF THE STANDARD PROCTOR (AASHTO) T-99 SPECIFICATIONS.
- THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER THREE (3) CERTIFIED COPIES OF A CHEMICAL AND SIEVE ANALYSIS OF THE SHELL ROCK BY A STATE OF FLORIDA CERTIFIED LAB WHEN CONSTRUCTING A SHELL ROCK BASE FOR ROADWAY.
- PRIOR TO CERTIFICATION OF THE DRAINAGE SYSTEM, THE CONTRACTOR MUST PUMP DOWN AND LAMP THE DRAINAGE SYSTEM FOR INSPECTION BY THE ENGINEER AFTER FINISHED ROCK FOR THE ROADWAYS HAS BEEN INSTALLED.

GENERAL NOTES

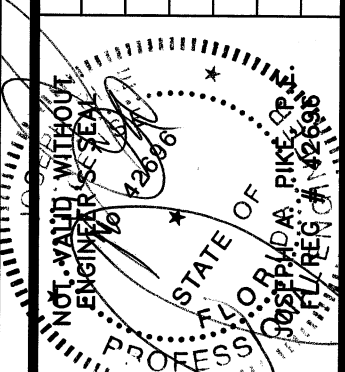
- CONTRACTOR SHALL PROTECT ALL PERMANENT REFERENCE MONUMENTS AND TAKE ALL PRECAUTIONS NECESSARY TO AVOID SURVEY MARKERS DURING CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACEMENT OF PERMANENT REFERENCE MONUMENTS DISTURBED DURING CONSTRUCTION, AT NO ADDITIONAL COST TO THE OWNER.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UNDERGROUND UTILITIES WHETHER OR NOT SHOWN ON THE PLANS. UTILITIES SHOWN ON THE PLANS ARE FOR REFERENCE ONLY AND MAY NOT DEPICT ACTUAL LOCATIONS. CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES FOR LOCATION AND DEPTH OF THEIR LINES PRIOR TO CONSTRUCTION.
- CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE AND PAY FOR THE DEENERGIZING OF POWER LINES AND/OR HOLDING POWER POLES DURING CONSTRUCTION AT NO ADDITIONAL COST TO THE OWNER.
- CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE AND PAY FOR THE REPLACEMENT OF TRAFFIC LOOPS IF DAMAGED DURING CONSTRUCTION AT NO ADDITIONAL COST TO THE OWNER.
- ALL ELEVATIONS REFER TO N.G.V.D. 1929. MINIMUM FINISHED FLOOR ELEVATION FOR ANY RESIDENTIAL STRUCTURE SHALL BE SET AT OR ABOVE ELEVATION TBD' (WHICH IS ABOVE THE 100-YEAR FREQUENCY STORM).
- SHOP DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW PRIOR TO CONSTRUCTION OR INSTALLATION AS REQUIRED BY THE ENGINEER OR BY THE APPROPRIATE GOVERNING AGENCIES.
- CONTRACTOR SHALL BE RESPONSIBLE TO SECURE AND PAY FOR, AT NO ADDITIONAL COST TO THE OWNER, ALL NECESSARY PERMITS, FEES AND LICENSES.
- CONTRACTOR SHALL BE RESPONSIBLE FOR GIVING THE REQUIRED NOTICES AND COMPLYING WITH ALL PERMIT(S) CONDITIONS.
- CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE AND PAY FOR THE HOLDING OF OTHER UTILITY POLES DURING CONSTRUCTION AT NO ADDITIONAL COST TO THE OWNER.
- ALL CONCRETE SHALL DEVELOP 2500 p.s.i. (MINIMUM) 28 DAY COMPRESSIVE STRENGTH OR GREATER WHERE NOTED ON PLANS. CLASS I CONCRETE SHALL CONFORM WITH THE FDOT SPECIFICATIONS, LATEST EDITION. CLASS I CONCRETE USED AS PAVING SHALL DEVELOP 3000 p.s.i. (MINIMUM) 28 DAYS COMPRESSIVE STRENGTH.
- ALL UTILITY CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE LOCAL UTILITY.
- ENVIRODESIGN ASSOC. INC. SHALL NOT BE RESPONSIBLE FOR THE SAFETY OF THE WORKERS OR THE GENERAL PUBLIC. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING SAFETY TO THE WORKERS IN ACCORDANCE WITH OCCUPATIONAL SAFETY & HEALTH ADMINISTRATIONS (OSHA) REQUIREMENTS AND THE SAFETY OF THE GENERAL PUBLIC.
- ALL MATERIALS AND WORKMANSHIP MUST BE IN ACCORDANCE WITH THE LOCAL UTILITY STANDARDS AND SPECIFICATIONS.
- THE CONTRACTOR SHALL CALL SUNSHINE 1-800-432-4770 48 HOURS BEFORE DIGGING FOR FIELD LOCATIONS OF UNDERGROUND UTILITIES.
- CORRUGATED ALUMINUM PIPE USED BENEATH PAVEMENT SHALL BE IN CONFORMANCE WITH SEC. 8.24.E.5.i
- ALL CONSTRUCTION ACTIVITY, INCLUDING TRENCHING, IS TO BE A MINIMUM OF SIX FEET FROM THE BASE OF ANY TREE THAT IS DESIGNATED TO REMAIN.
- ALL LIMEROCK AND BASE MATERIALS SHALL BE REMOVED FROM THE PLANTER AREAS/ISLANDS AND REPLACED WITH APPROPRIATE PLANTING SOIL PRIOR TOT THE LANDSCAPING OF THE SITE.
- THE REMOVAL OF ANY TREE ON THE SITE IS PROHIBITED WITHOUT THE REQUIRED PERMITS.
- ALL MATERIALS AND CONSTRUCTION WITHIN THE FDOT RIGHT-OF-WAY SHALL CONFORM TO THE FDOT DESIGN STANDARDS FOR DESIGN, CONSTRUCTION, MAINTENANCE AND UTILITY OPERATIONS ON THE STATE HIGHWAY SYSTEM (LATEST ED.).
- LANE CLOSURES WITHIN THE FDOT RIGHT-OF-WAY SHALL BE LIMITED TO THE HOURS OF 9AM-3PM, MONDAY-FRIDAY EXCLUDING GOVERNMENTAL HOLIDAYS. MAINTENANCE OF TRAFFIC SHALL BE PROVIDED IN ACCORDANCE WITH INDEX 613 OF THE FDOT DESIGN STANDARDS (LATEST ED.)

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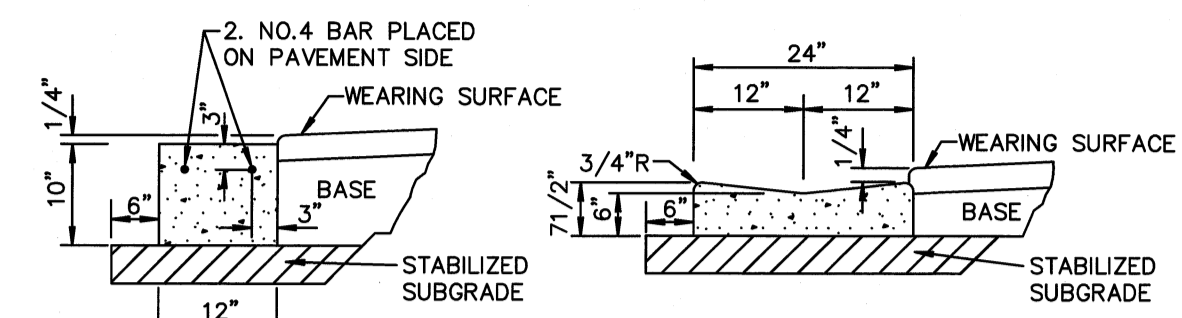
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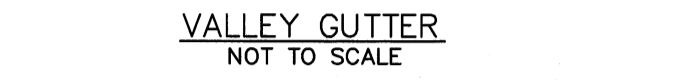
3 OF 6



NO.	DATE	REVISIONS
1	6/29/15	PERMIT SET

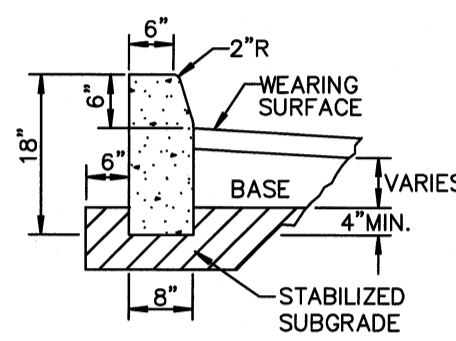


**CONCRETE
HEADER CURB**
NOT TO SCALE

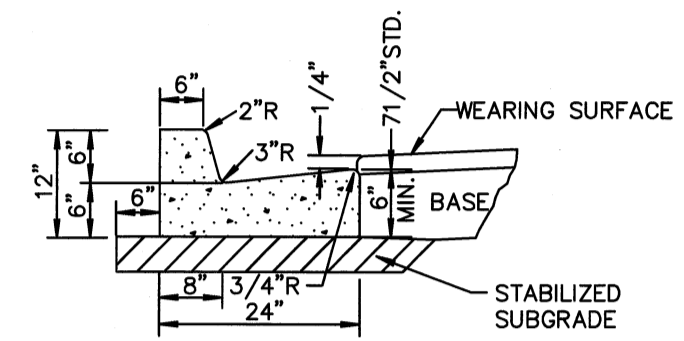


VALLEY GUTTER
NOT TO SCALE

NOTE: SAWCUTS REQUIRED AT 10' CENTERS.



F.D.O.T. TYPE "D"



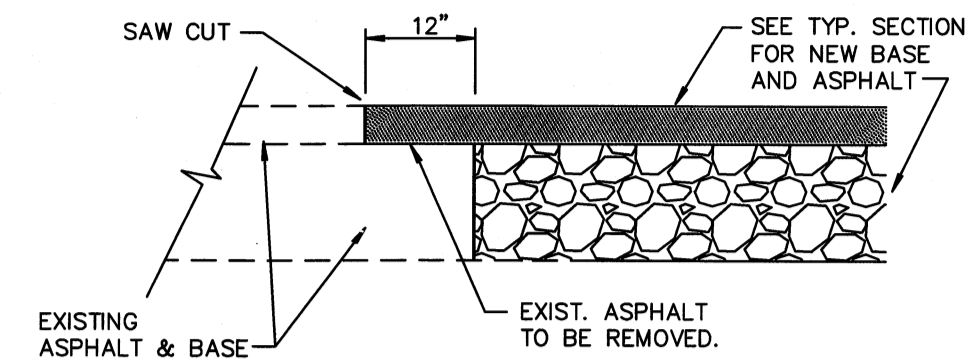
F.D.O.T. TYPE "F"

NOTE: WHEN USED ON HIGH SIDE OF ROADWAYS, CROSS SLOPE OF THE GUTTER SHALL MATCH THE CROSS SLOPE OF THE ADJACENT PAVEMENT AND THE THICKNESS OF THE LIP SHALL BE 6" MIN.

**CONCRETE
CURB AND GUTTER**
NOT TO SCALE

- NOTES:
1. ROADWAY SUBGRADE SHALL IN ALL CASES EXTEND BELOW CURBING.
 2. SAWCUTS SHALL BE MADE WITHIN 24 HOURS OF CONCRETE PLACEMENT.

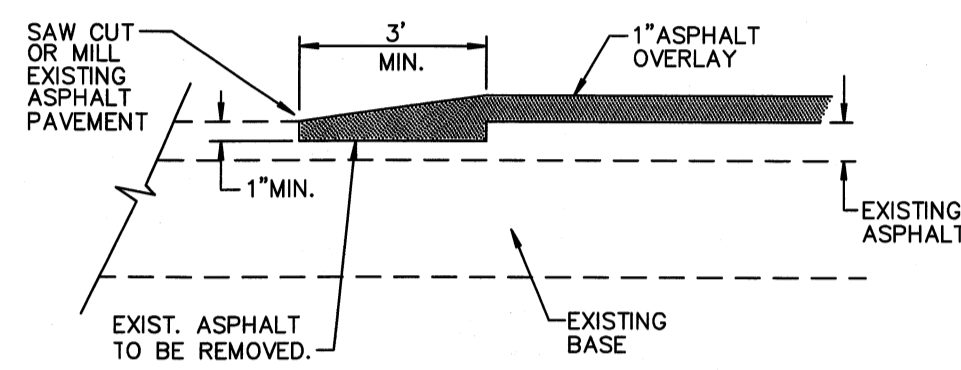
CURB AND GUTTER SECTIONS RT 6.1



NEW CONSTRUCTION PAVEMENT JOINT

NOTE:

THIS METHOD OF PAVEMENT JOINT SHALL BE USED FOR ANY APPLICATION OR CONSTRUCTION WHERE PROPOSED PAVEMENT AND BASE WILL BE CONNECTED TO EXISTING PAVEMENT AND BASE.

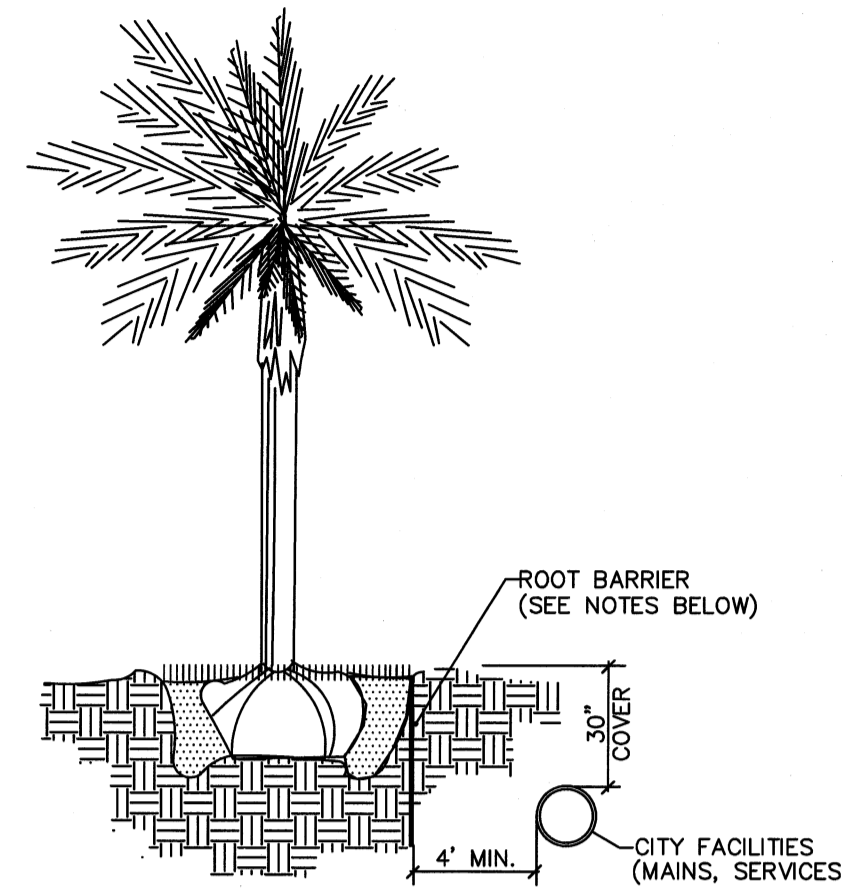


NEW OVERLAY PAVEMENT JOINT

NOTE:

THIS METHOD OF PAVEMENT JOINT SHALL BE USED FOR ANY APPLICATION OR CONSTRUCTION WHERE PROPOSED PAVEMENT WILL BE CONNECTED TO EXISTING PAVEMENT.

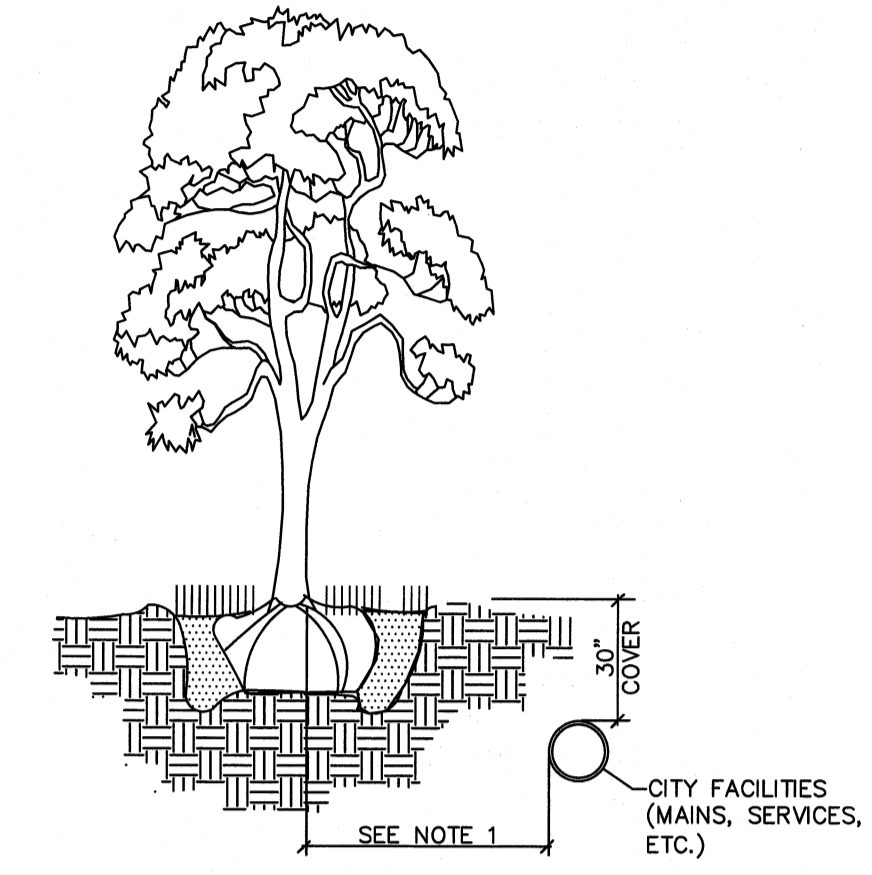
PAVEMENT JOINT DETAIL RT 7.1



NOTES:

1. ALL ROOT BARRIERS SHALL BE 4' MINIMUM FROM ALL CITY FACILITIES.
2. THE INSTALLATION OF ROOT BARRIERS SHALL BE COORDINATED WITH CITY AND INSPECTED BY CITY PRIOR TO BACKFILLING. ALL ROOT BARRIERS SHALL EXTEND UP TO FINISHED GRADE.
3. ROOT BARRIERS SHALL BE MINIMUM 36" DEEP. APPROVED PRODUCTS INCLUDE "DEEP ROOT" AND "ROOT SOLUTIONS". FLEXIBLE BARRIERS SHALL BE 36" PANELS MANUFACTURED BY BIOBARRIER.
4. ALL ROOT BARRIERS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS WRITTEN INSTRUCTIONS.

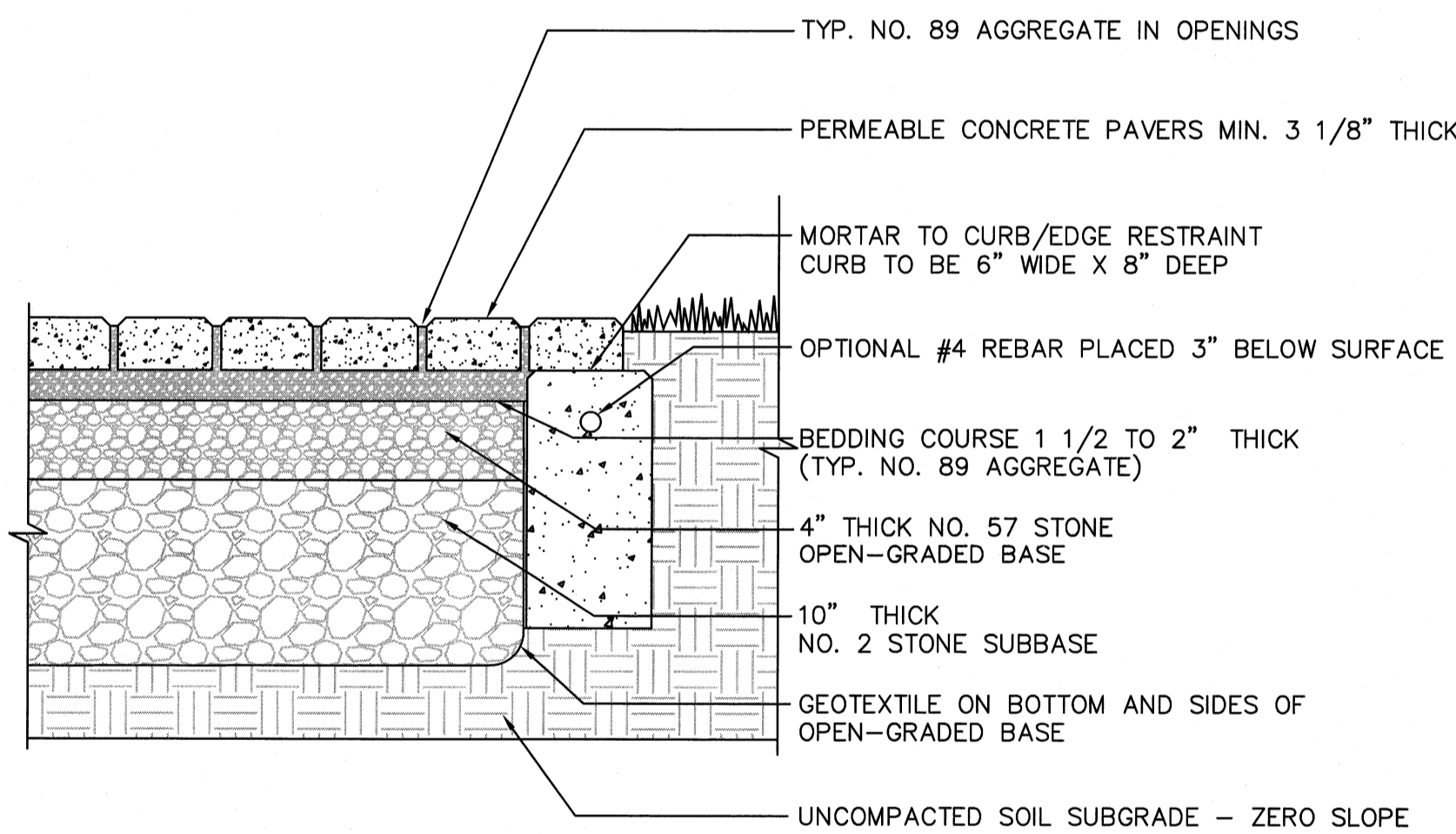
TYPICAL TREE WITH ROOT BARRIER LD 1.1



NOTES:

1. THIS DISTANCE SHALL BE 10' MINIMUM FROM ALL CITY FACILITIES IF NO ROOT BARRIER IS USED.

TYPICAL TREE WITHOUT ROOT BARRIER LD 1.2



NOTE: PERMEABLE PAVERS TO BE INSTALLED IN ACCORDANCE WITH THE INTERLOCKING CONCRETE PAVEMENT INSTITUTE (ICPI) PERMEABLE INTERLOCKING CONCRETE PAVEMENTS STANDARDS.

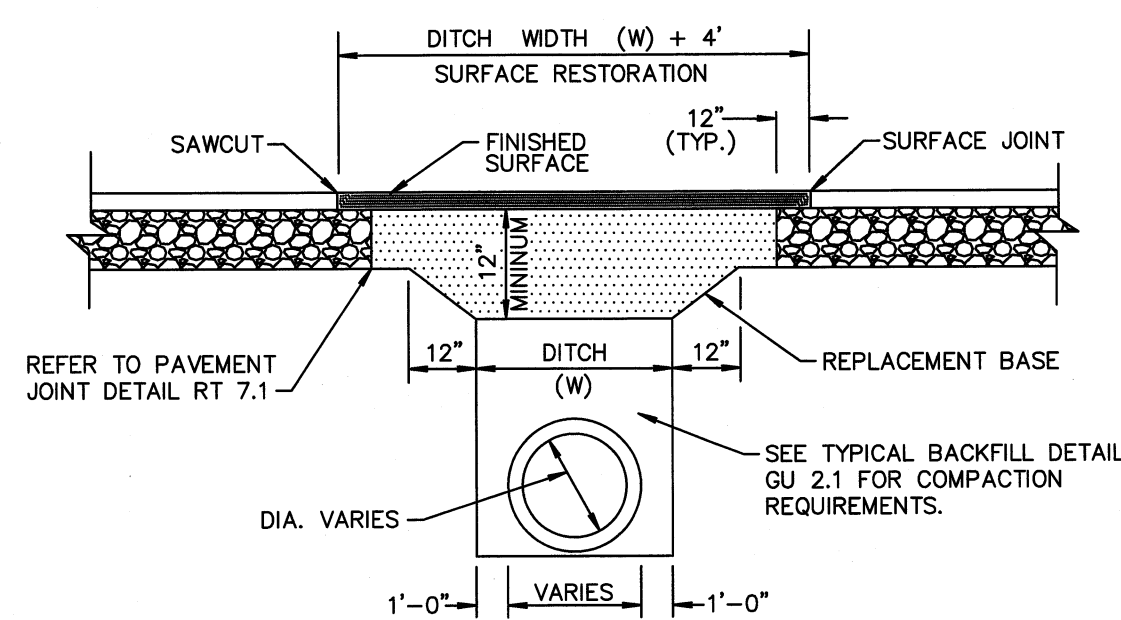
PERMEABLE PAVER SECTION
NOT TO SCALE

NO.	DATE	REVISIONS
1	6/29/15	PERMIT SET

PAVING & DRAINAGE DETAILS FOR:
ART WAREHOUSE
313 NE 3RD STREET
DELRAY BEACH, FLORIDA

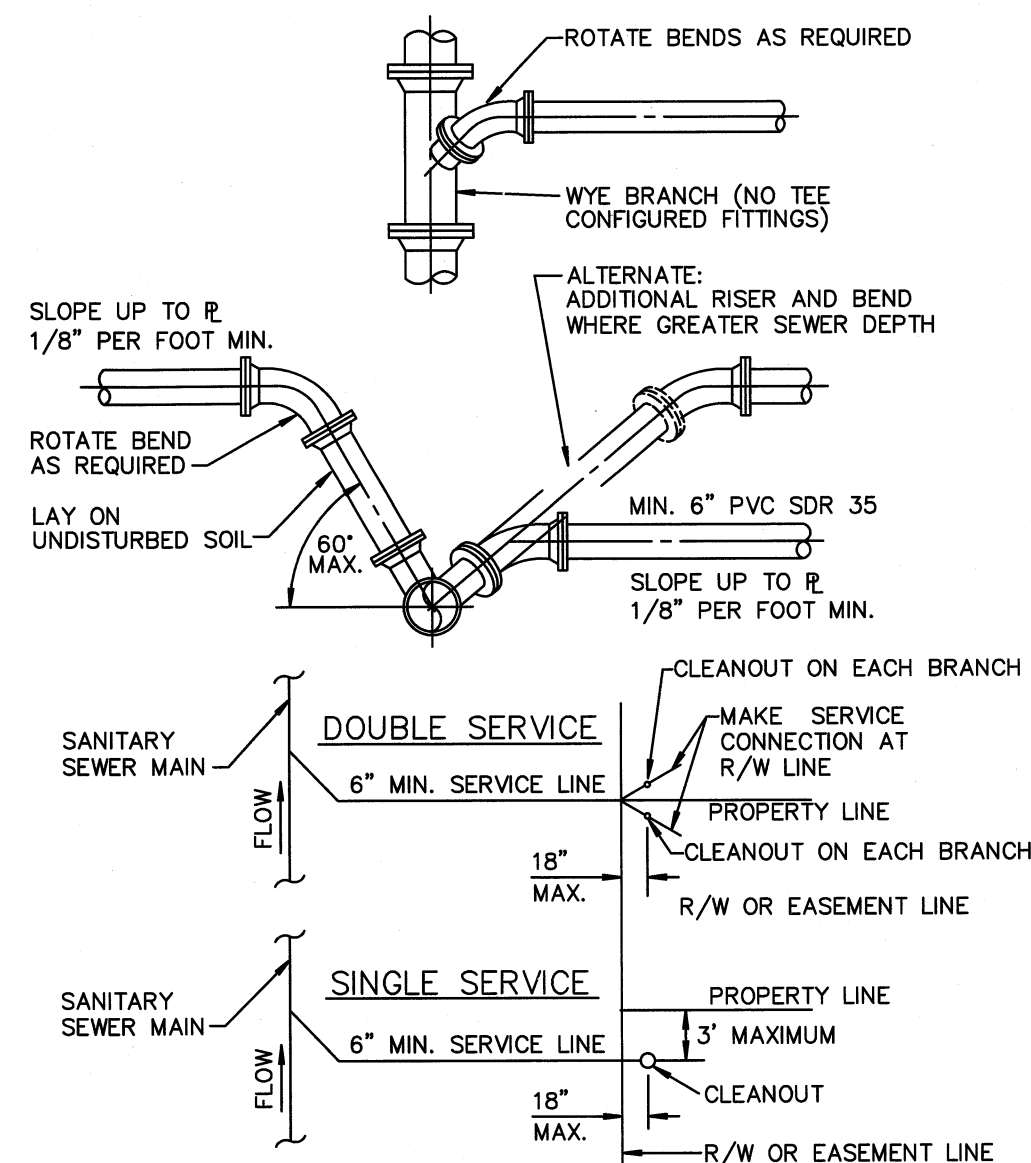
EnviroDesign Associates Inc.
www.envirodesign.com
ENGINEERS • ENVIRONMENTAL CONSULTANTS
FLORIDA CERTIFICATE OF AUTHORIZATION No. 6506
298 Pineapple Grove Way Delray Beach, Florida 33444
Phone: (561) 274-6500 Fax: (561) 274-8558

DRAWN:
M.T.J.
CHECKED:
J.A.P.
DATE:
6/25/15
JOB NO.
15006-DTL
SHEET NO.
4 OF 6



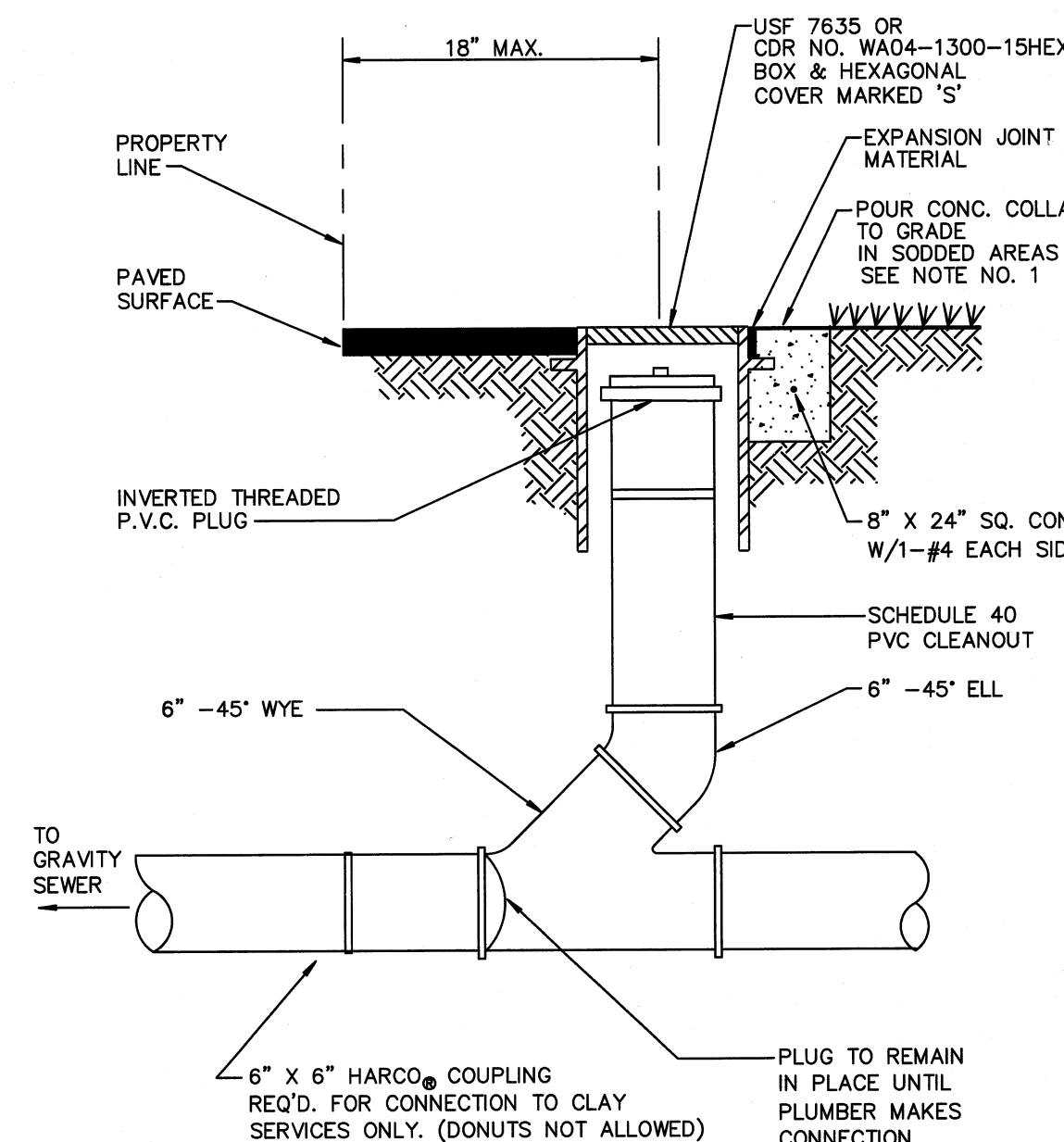
- REPLACEMENT BASE TO BE AT MIN. 12" THICK.
- BASE MATERIAL SHALL BE PLACED IN TWO LIFTS AND EACH LIFT COMPACTED TO 98% MAXIMUM DENSITY PER AASHTO T-180 (MAX. LIFT THICKNESS = 6").
- 12" EXCAVATABLE FLOWABLE FILL MIN. 100 P.S.I. MAY BE USED IN LIEU OF 12" BASE.
- ASPHALT CONCRETE PAVEMENT JOINTS SHALL BE MECHANICALLY SAWED.
- ALL DISTURBED PAVEMENT MARKINGS SHALL BE RESTORED IN ACCORDANCE WITH CITY STANDARDS.
- SURFACE MATERIAL SHALL BE F.D.O.T. TYPE S-I OR S-II ASPHALTIC CONC. (MIN. THICKNESS 1 1/2").
- ANY PAVT. CUTS SHALL BE COLD PATCHED AT END OF EACH WORKING DAY TO FACILITATE UNHINDERED TRAFFIC FLOW.

PAVEMENT REPAIR DETAIL GU 1.1



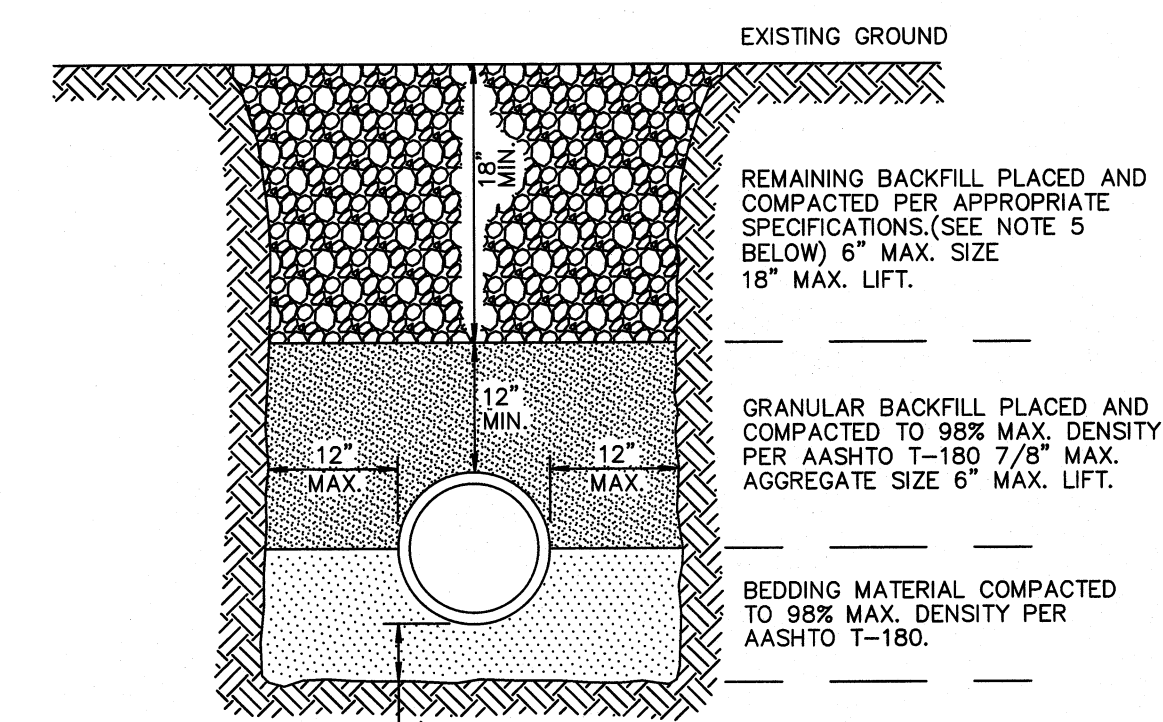
- NOTE:**
- SERVICE LATERALS SHALL TERMINATE INSIDE PROPERTY LINE A DEPTH OF 3 FEET AND MARKED WITH A 2" X 4" TREATED STAKE.
 - CLEANOUT INSTALLATION SHALL BE PROPERTY OWNERS RESPONSIBILITY AND SHALL BE INSTALLED BY LICENSED PLUMBER.
 - SEE DETAIL PW 2.1 FOR SEPARATION REQUIREMENTS.

SEWER SERVICE CONNECTIONS WW 4.1



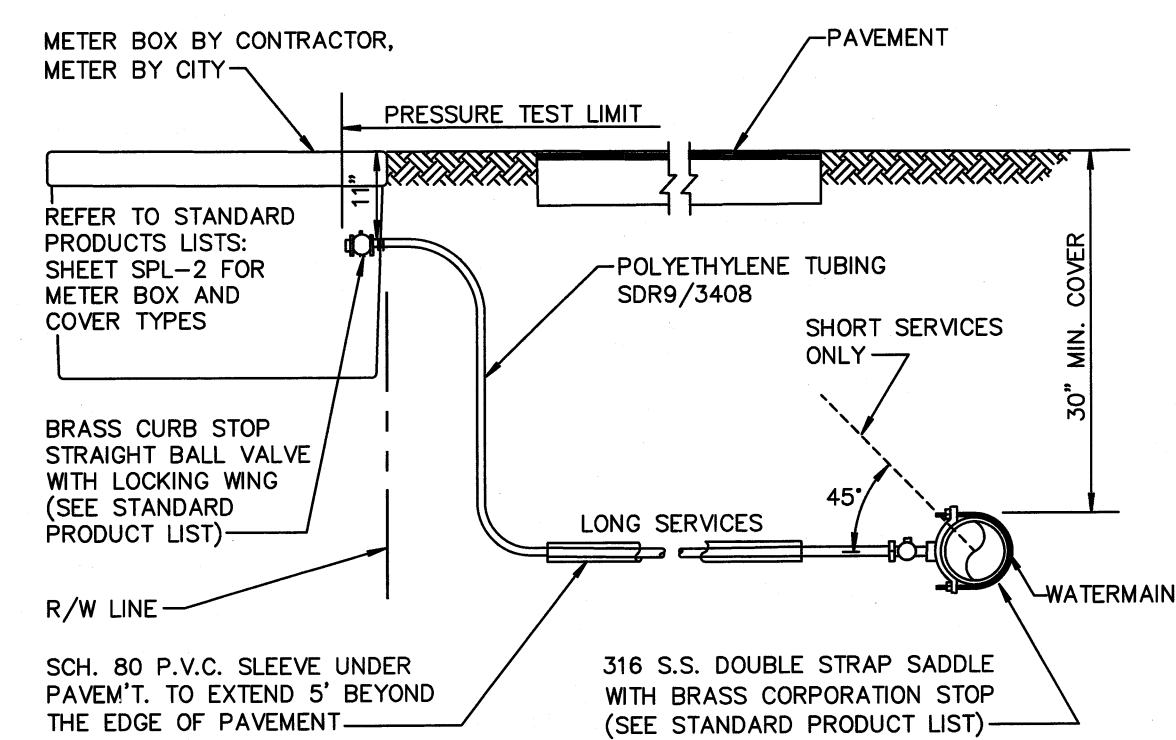
- NOTE:**
- INVERTED BRASS CAP SHALL BE USED IN GRASS AREAS IN LIEU OF CASTING AND CONE COLLAR.
 - MINIMUM DEPTH OF SERVICE LATERAL SHALL BE 3 FEET.

TYPICAL COMMERCIAL CLEANOUT WW 5.2



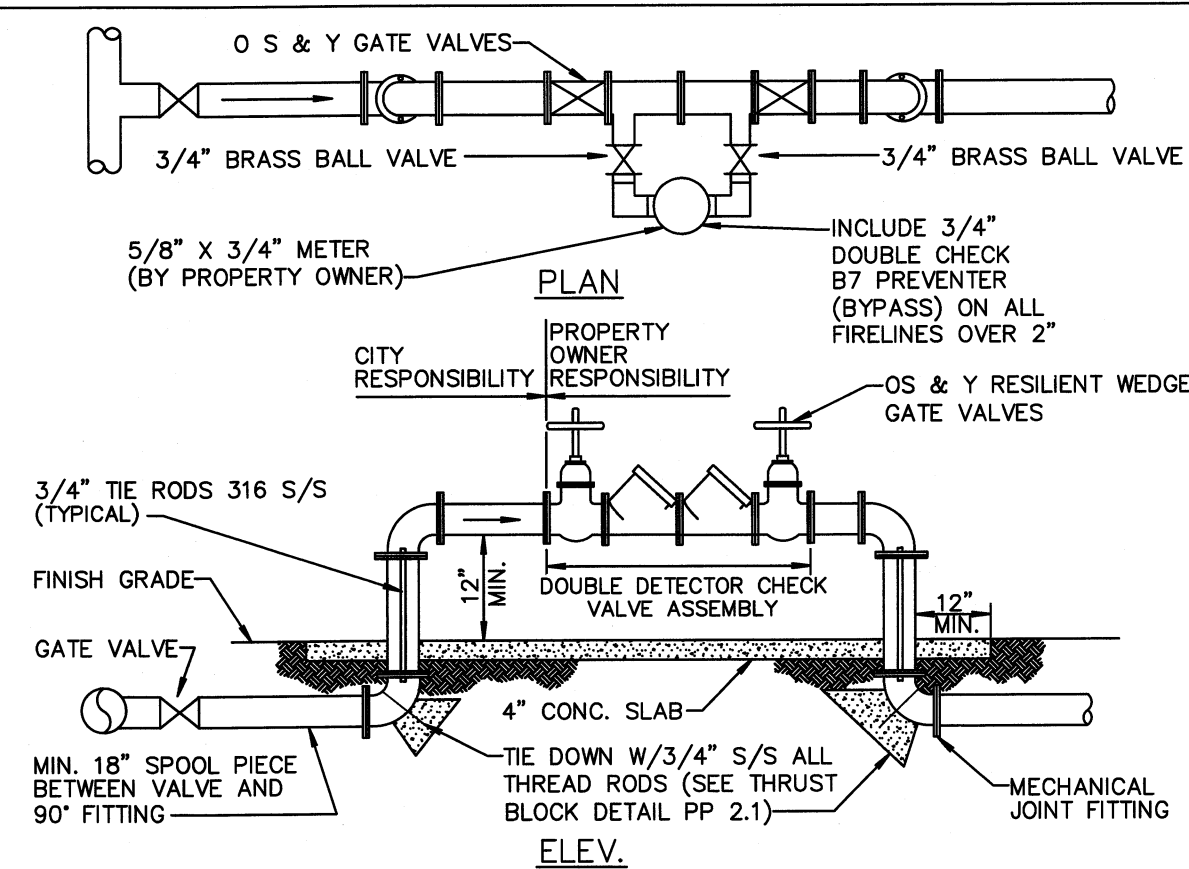
- NOTES:**
- UNSUITABLE IN-SITU MATERIALS SUCH AS MUCK, DEBRIS AND LARGE ROCKS SHALL BE REMOVED. BEDDING MATERIAL AND BACKFILL CONSISTING OF WASHED AND GRADED LIMEROCK 3/8" - 7/8" SIZING.
 - THE PIPE AND/OR STRUCTURE SHALL BE FULLY SUPPORTED FOR ITS ENTIRE LENGTH WITH APPROPRIATE COMPACTION UNDER THE PIPE HAUNCHES.
 - THE PIPE AND/OR STRUCTURE SHALL BE PLACED IN A DRY TRENCH.
 - BACKFILL SHALL BE FREE OF UNSUITABLE MATERIAL SUCH AS LARGE ROCK, MUCK, AND DEBRIS.
 - COMPACTION AND DENSITY TESTS SHALL BE COMPLETED DURING BACKFILL OPERATIONS. CONTRACTORS NOT FOLLOWING THIS PROCEDURE, FOR WHATEVER REASONS, SHALL BE REQUIRED TO RE-EXCAVATE THE AREA IN QUESTION, DOWN TO THE BEDDING MATERIAL, THEN BACKFILL FOLLOWING THE ABOVE PROCEDURES.

TYPICAL BACKFILL DETAIL GU 2.1



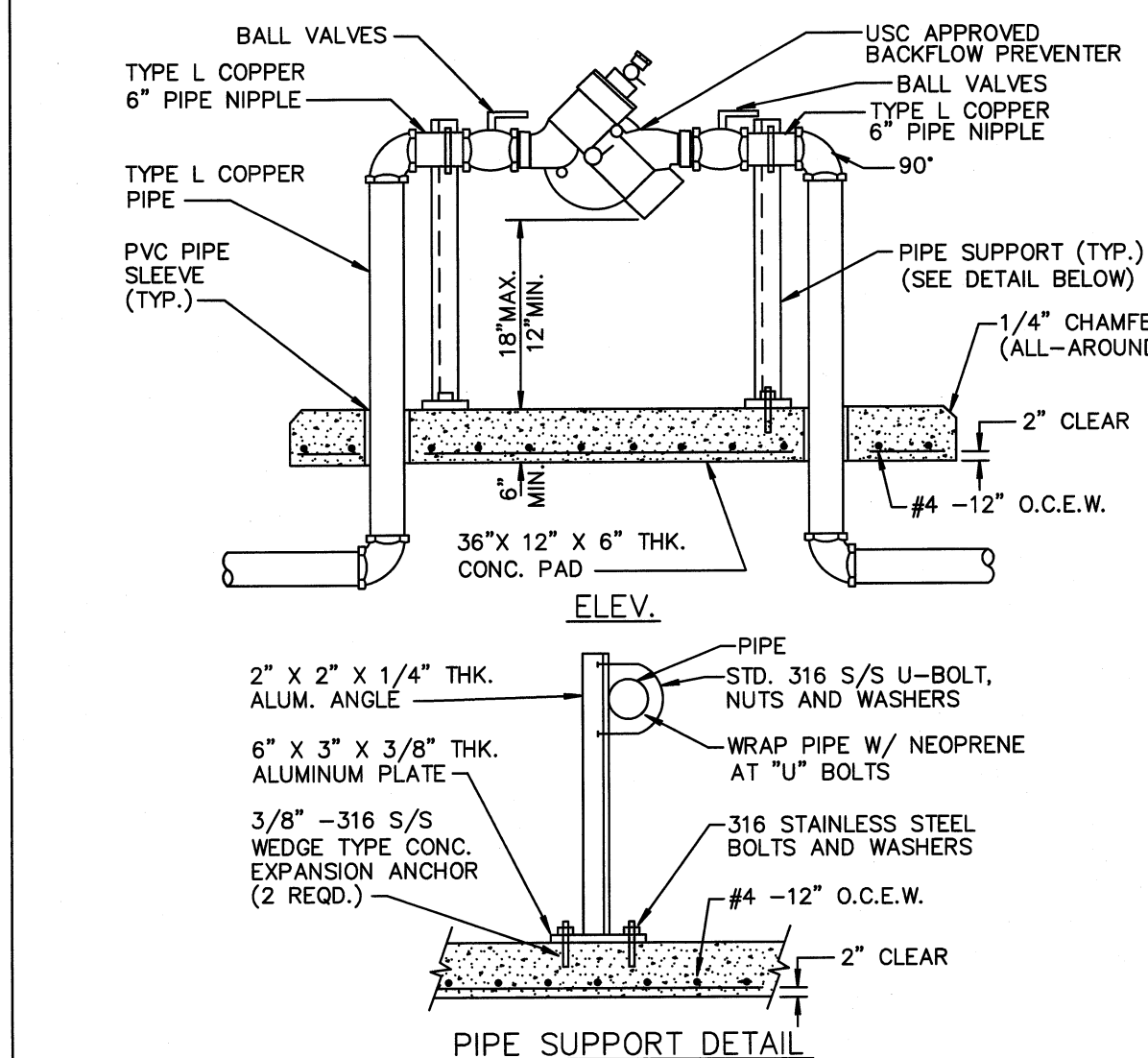
- NOTES:**
- SUCCESSIVE TAPS INTO THE WATER MAIN SHALL BE SPACED A MINIMUM OF 18" ON CENTER.
 - SERVICE LINES SHALL NOT BE PLACED UNDER DRIVEWAYS.
 - ALL METERS REQUIRE A LOCKING BRASS CURB STOP WITH LOCK WING (1" MIN.).
 - NO FITTINGS BETWEEN CORPORATION STOP AND BRANCH ASSEMBLY.
 - MAXIMUM SERVICE LENGTH IS 100' TO METER.
 - CASING PIPE I.D. SHALL BE SERVICE O.D. PLUS 1" MINIMUM.
 - MINIMUM BEND RADIUS ON SERVICES SHALL BE 14" ON ALL SERVICES BEHIND METER.
 - METER SIZE WILL BE DETERMINED BY PUBLIC UTILITIES DEPT. UPON APPLICATION FOR SERVICE.
 - ALL VALVES TO BE BALL VALVES.
 - METER BOX SHALL BE PROVIDED AND INSTALLED BY CONTRACTOR.

TYPICAL SERVICE CONNECTION PW 9.1a



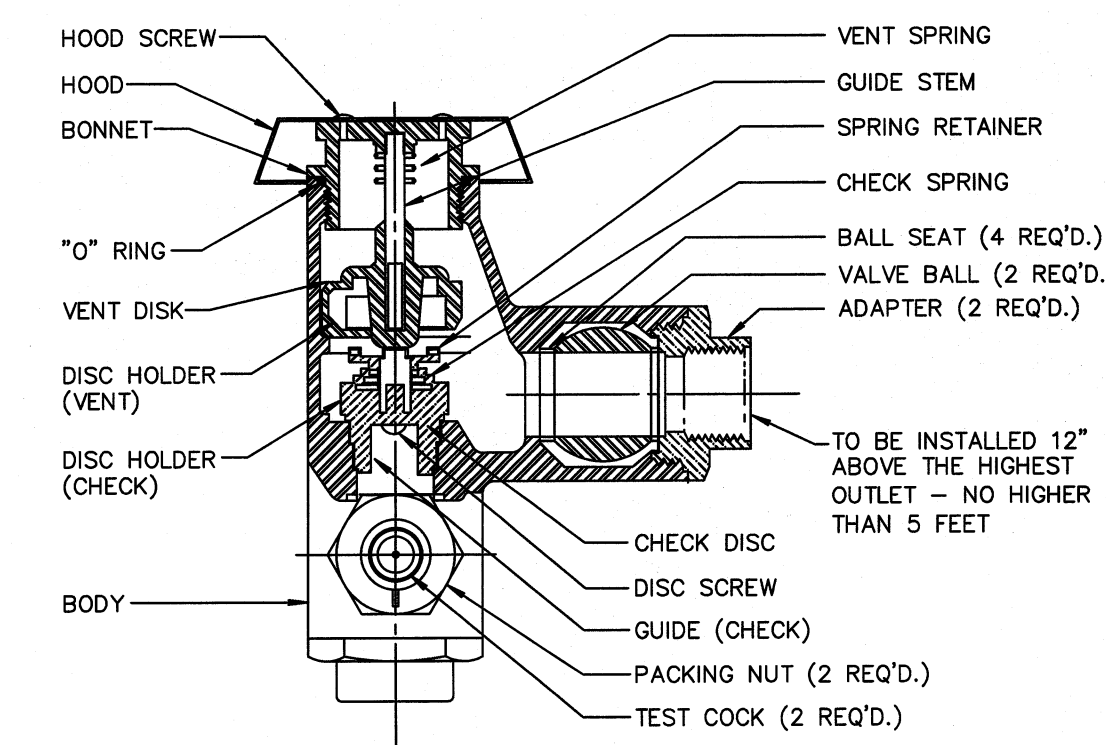
- NOTES:**
- FOR ALL SERVICES GREATER THAN 2" DIA.
 - ALL PIPE AND FITTINGS SHALL BE CLASS 52 DUCTILE IRON CEMENT LINED WITH CEMENT LINED DUCTILE IRON FLANGE FITTINGS FOR ABOVE GROUND USE. MECHANICAL JOINT SHALL BE USED UNDERGROUND IN ACCORDANCE WITH AWWA STANDARDS.
 - THE DOUBLE DETECTOR CHECK VALVE ASSEMBLY SHALL MEET AWWA C511-89, AND APPROVAL OF ENVIRONMENTAL SERVICES DEPARTMENT.
 - CERTIFICATION OF PROPER INSTALLATION AND OPERATION WILL BE REQUIRED FROM A CERTIFIED BACKFLOW PREVENTION TECHNICIAN PRIOR TO WATER MAIN ACCEPTANCE BY THE CITY OF DELRAY BEACH.
 - THE PROPERTY OWNER SHALL BE RESPONSIBLE FOR THE PROPER OPERATION, MAINTENANCE AND TESTING OF THE DOUBLE DETECTOR CHECK VALVE ASSEMBLY.
 - BOLLARDS TO BE USED IF THE ASSEMBLY IS WITHIN 5' OF THE PAVEMENT, REFER TO BOLLARD DETAIL PW 5.2.
 - ALL TWO INCH DOUBLE DETECTOR CHECK VALVE, SHALL BE BRASS OR TYPE "L" COPPER TUBING.
 - USE OF OTHER PIPE MATERIALS WITH APPROVAL OF WATER SEWER MANAGER.
 - CITY MAINTAINS UP TO THE FIRST O S & Y VALVE.

DOUBLE DETECTOR CHECK VALVE PW 10.1



- NOTES:**
- FOR ALL SERVICES LESS THAN OR EQUAL TO 2" DIA.
 - ABOVE GRADE PIPING SHALL BE BRASS OR TYPE "L" COPPER TUBING.
 - ALL COPPER JOINTS SHALL BE MADE WITH 95/5 SOLDER.
 - RPZ BACKFLOW PREVENTER IS REQUIRED IN ACCORDANCE WITH CITY OF DELRAY BEACH CODE OF ORDINANCES TITLE V, CHAPTER 52.80.
 - USE OF OTHER PIPE MATERIALS WITH APPROVAL OF DEPUTY DIRECTOR OF UTILITIES.
 - RPZ BACKFLOW PREVENTER IS REQUIRED FOR ALL COMMERCIAL PROPERTIES AND ALL RESIDENTIAL PROPERTIES WITH FIRE SPRINKLER SYSTEMS.

REDUCED PRESSURE ZONE BACKFLOW PREVENTER PW 10.2



- NOTES:**
- WATTS REGULATOR COMPANY OR EQUIVALENT.
 - VALVE SHALL MEET OR EXCEED THE A.S.S.E., BS&A AND U.S.C.F. REQUIREMENTS.
 - SHALL ALSO BE LISTED BY IAPMO (UPC).
 - USE OF OTHER PIPE MATERIALS WITH APPROVAL OF DEPUTY DIR. OF UTILITIES.
 - ABOVE GRADE PIPING SHALL BE PVC OR COPPER.

ANTI-SIPHON PRESSURE TYPE VACUUM BREAKER PW 10.3

BY:	MTJ
DATE:	6/29/15
REVISIONS:	PERMIT SET
NO.	1

WATER & WASTEWATER DETAILS FOR:
ART WAREHOUSE
 313 NE 3RD STREET
 DELRAY BEACH, FLORIDA

EnviroDesign Associates, Inc.
 ENGINEERS • ENVIRONMENTAL CONSULTANTS
 FLORIDA CERTIFICATE OF AUTHORIZATION NO. 65934444
 298 W. Delray Beach Blvd., Suite 200
 Delray Beach, FL 33444
 Phone: (561) 274-6500 Fax: (561) 274-8558

DRAWN:
 M.T.J.
 CHECKED:
 J.A.P.
 DATE:
 6/25/15
 JOB NO.
 15006-DTL
 SHEET NO.
 5 OF 6

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Applicable Documents:

A. These Specifications and the requirements hereafter will govern the project during the installation, guarantee and maintenance period.

Scope of Work:

A. The work specified by this Section of the Specifications and on the Plans consists of furnishing all labor, machinery, tools, apparatus, means of transportation, supplies, equipment, materials, services and other items necessary to complete the work as indicated on the Plans and in the Specifications, as well as all other related responsibilities, including all change and repairs incident thereto.

B. The work shall include, but not be limited to, furnishing material, root pruning where required, layout, protection to the public, excavation, installation, backfilling, grading, fertilizing, mulching, staking and guying where required, watering, pruning where required, soil installation, weeding, cleanup, maintenance and guarantee.

C. Quantities and Location: The Landscape Architect reserves the right to adjust the numbers and locations of the designated trees and shrubs to be used at any of the locations shown in order to provide for any modifications which might be necessary.

D. Investigation of Substrate Condition: The Contractor shall be responsible for making site substrate investigation to determine as to the condition of the existing material with the character of the existing material and the construction conditions under the site work.

E. The Landscape Contractor shall be paid for only those units that are installed at the time of request for payment. The contractor's unit prices shall be the basis for said payment. The final amount of payment shall not be the total sum of the contract depending on the number of units installed.

F. Ten percent (10%) of the total contract price will be held as retention for 90 days after final unit acceptance.

G. The Landscape Contractor will coordinate his work with all other trades at the job site.

(2) Palm frond tying shall be as set forth in the latest edition of the Florida Department of Agriculture's "Grades and Standards for Nursery Plants," using plants that are at the option of the Contractor. The Landscape Architect may direct the Contractor to utilize palm fronds to accommodate an owner's "grand opening". The Contractor may re-tie the palm after the event. This re-tying will not affect the guarantee or represent an additional cost to the owner.

(3) To reduce head volume, Palm fronds may be taper trimmed by not more than one-third.

(4) Plants with mechanical damage, such as from cables, chains, equipment, and nails, shall be rejected.

I. Chlorosis: The allowable level of Chlorosis in foliage shall be set forth in the latest edition of the Florida Department of Agriculture's "Grades and Standards for Nursery Plants."

J. Plant material shall not be accepted when the ball of earth surrounding its roots has been cracked, broken or otherwise damaged.

K. Root pruning of plant material, when necessary, shall be done a minimum of 60 days prior to planting at the option of the Landscape Architect, prior to planting at the project.

Soil:

A. Soil shall be solid soil and shall be standard quality grade. Note: Quality grade shall be based on the standards of soil quality grades (premium, standard or commercial) as established by the Turf Grass Producers Association of Florida Inc. The soil shall be well mixed with roots and of firm loam texture having compact top growth and no root development. Soil shall be free of objectionable grass and broad leaf weeds. Soil shall not be accepted if it contains Bermuda Grass. Soil sections shall be strong enough to support when suspended vertically from a firm grasp on the upper 1/3 of the section. Soil shall not be heretofore transported by wind or water. Soil shall be relatively free of which, up to one half inch allowable (uncompressed).

The soil embedded in the soil shall be a clean, earth, free of stones and debris. The soil shall have been moved at least three times with a ten wheel with final moving not more than seven days prior to the soil being out for placement. The soil shall be provided in commercial sized bags weighing not less than 17.5 lbs. and shall be free of live, fresh and unincubated at the time of placement. It shall be planted within 48 hours after the soil has been moved and kept moist from the time it is cut until it is planted.

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Quality Assurance:

A. The Landscape Architect may inspect trees, shrubs, and groundcover either at the place of growth or at the site before planting for compliance with the requirements for name, variety, size, and quality. The Landscape Architect retains the right to further inspect trees and shrubs for size and condition of balls and root system, insects, injuries, and latent defects, and to reject unsatisfactory or defective material at any time during the progress of work. The Landscape Contractor shall remove rejected trees or shrubs within 1 day from the project site.

B. Responsibility for Assuring Quality Work:

(1) The Contractor's Superintendent shall speak English and be well versed in Florida plant material, planting operations, Plan and Specification interpretation, coordination with other contractors or services at the project area and coordination between the nursery and the project.

(2) All employees shall be competent and highly skilled in their particular job in order to properly perform the work assigned to them. The Contractor shall be responsible for maintaining the quality of the material on the project.

(3) The Contractor will comply with applicable Federal, State, County and local requirements governing landscape materials and work.

C. Grade Standards:

(1) Plant material shall be Florida #1 or better as set forth in the latest edition of the Florida Department of Agriculture's Grades and Standards for Nursery Plants.

(2) All plant material will be subject to the approval of the Landscape Architect for quality size and color. Plants lacking the compactness or proper proportions, plants which are unbalanced, and plants which are damaged, shall not be accepted. Plant material which has been cut from larger grades and does not meet certain specification requirements will be rejected.

(3) Plant material shall have normal, well developed branches and shall be vigorous plants, free from diseases, decay, bare, disfiguring roots, sun-scalded injuries, abrasion of the bark, plant diseases, insect pest, aphid, borers, and all forms of infestation or objectionable infestations.

E. If requested by the Owner or Landscape Architect, submit a letter indicating the source or supplier of all soil and the grade to be supplied for approval by the Landscape Architect before it is delivered and installed on the project.

Planting Ball:

A. All plant material, unless indicated otherwise, shall be installed with a planting soil composed of sandy loam (60% sand, and 40% mulch) typical of the locality. The soil shall be taken from ground that has never been stripped, with a slight acid reaction (5.5 to 6.5 pH) and without an excess of calcium or carbonate. Soil shall be delivered in a loose friable condition.

Water:

A. Potable, from municipal water supplies or other sources which are approved by a public health department.

Mulch:

A. Mulch shall be: (1) "Florimulch"

B. New and existing Trees and Palms: Fertilize with 8-2-2 palm fertilizer with micronutrients at a rate of 1 lb. per 1000 SF of area.

C. New and existing Shrubs, and Groundcover: Fertilize with 8-2-2 palm fertilizer with micronutrients at a rate of 1 lb. per 1000 SF of area.

D. Annuals: Fertilize with Osmocote - Biara blend 14-14-14 or approved equal.

E. All fertilizer shall comply with the State of Florida fertilizer laws.

Composition and Quality:

All fertilizer shall be uniform in composition and dry. Granular fertilizer shall be free flowing and delivered in unopened bags. All large containers or boxes shall be fully labeled with the manufacturer's analysis.

All fertilizer shall comply with the State of Florida fertilizer laws.

Removal of Plant Material:

(1) All plant material to be removed shall be removed completely, including the rootball, from the job or area directed by the Landscape Architect. The remaining hole shall be filled with suitable material or planting soil as directed by the Landscape Architect.

(2) Rootball: Requirements for the measurement of minimum rootball diameter and depth shall comply with the Florida Department of Agriculture's "Grades and Standards for Nursery Plants, Part 1 and Part 2," as follows:

CALIPER	MIN. BALL DIA.	MIN. BALL DEPTH
1 - 1 1/2"	1 1/2"	75% of dia.
1 1/2 - 2"	2"	65% of dia.
2 - 2 1/2"	2 1/2"	65% of dia.
2 1/2 - 3 1/2"	3"	65% of dia.
3 1/2 - 4"	3 1/2"	65% of dia.
4 - 4 1/2"	4"	60% of dia.
4 1/2 - 5"	4 1/2"	60% of dia.
5 - 5 1/2"	5"	60% of dia.
5 1/2" or more	increase in proportion	up to 48"

Proportion for larger size diameter.

(3) Root pruning shall be accomplished by digging a trench completely around the plant about 18 inches deep. All exposed roots shall be cut off smoothly.

(4) A mixture of good organic fertilizer and planting soil shall be used to refill the trench.

(5) Plant material which is in soil of a loose texture, which does not readily adhere to the root system, especially in the case of large plants or trees, shall have the rootball wrapped in burlap and then wire, as directed by the Landscape Architect. For wire, hog wire shall be used and it shall be placed around the rootball before the plant is removed from the hole for relocation. The wire shall be substantially packaged by the lightened wire netting formed by the hog wire, so as to prevent disturbance of the loose soil around the roots during handling.

(6) If, however, the inspection mentioned in paragraph A, above, discloses any decay, or other undesirable vegetation, unsatisfactory final acceptance shall not be given and the Owner and/or Landscape Architect will give the Contractor the necessary instructions or "touch list". Upon completion of work, another inspection will be made which shall constitute the final inspection provided the work has been satisfactorily completed. In such event, the Owner or their representative shall make the final acceptance and notify the contractor in writing of this final acceptance as of the date of this final inspection.

(7) If, however, the inspection mentioned in paragraph A, above, discloses any decay, or other undesirable vegetation, unsatisfactory final acceptance shall not be given and the Owner and/or Landscape Architect will give the Contractor the necessary instructions or "touch list". Upon completion of work, another inspection will be made which shall constitute the final inspection provided the work has been satisfactorily completed. In such event, the Owner or their representative shall make the final acceptance and notify the contractor in writing of this final acceptance as of the date of this final inspection.

(8) If, however, the inspection mentioned in paragraph A, above, discloses any decay, or other undesirable vegetation, unsatisfactory final acceptance shall not be given and the Owner and/or Landscape Architect will give the Contractor the necessary instructions or "touch list". Upon completion of work, another inspection will be made which shall constitute the final inspection provided the work has been satisfactorily completed. In such event, the Owner or their representative shall make the final acceptance and notify the contractor in writing of this final acceptance as of the date of this final inspection.

(9) If, however, the inspection mentioned in paragraph A, above, discloses any decay, or other undesirable vegetation, unsatisfactory final acceptance shall not be given and the Owner and/or Landscape Architect will give the Contractor the necessary instructions or "touch list". Upon completion of work, another inspection will be made which shall constitute the final inspection provided the work has been satisfactorily completed. In such event, the Owner or their representative shall make the final acceptance and notify the contractor in writing of this final acceptance as of the date of this final inspection.

(10) If, however, the inspection mentioned in paragraph A, above, discloses any decay, or other undesirable vegetation, unsatisfactory final acceptance shall not be given and the Owner and/or Landscape Architect will give the Contractor the necessary instructions or "touch list". Upon completion of work, another inspection will be made which shall constitute the final inspection provided the work has been satisfactorily completed. In such event, the Owner or their representative shall make the final acceptance and notify the contractor in writing of this final acceptance as of the date of this final inspection.

(11) If, however, the inspection mentioned in paragraph A, above, discloses any decay, or other undesirable vegetation, unsatisfactory final acceptance shall not be given and the Owner and/or Landscape Architect will give the Contractor the necessary instructions or "touch list". Upon completion of work, another inspection will be made which shall constitute the final inspection provided the work has been satisfactorily completed. In such event, the Owner or their representative shall make the final acceptance and notify the contractor in writing of this final acceptance as of the date of this final inspection.

(12) If, however, the inspection mentioned in paragraph A, above, discloses any decay, or other undesirable vegetation, unsatisfactory final acceptance shall not be given and the Owner and/or Landscape Architect will give the Contractor the necessary instructions or "touch list". Upon completion of work, another inspection will be made which shall constitute the final inspection provided the work has been satisfactorily completed. In such event, the Owner or their representative shall make the final acceptance and notify the contractor in writing of this final acceptance as of the date of this final inspection.

Delivery, Handling and Storage:

A. Delivery and Handling:

(1) Movement of nursery stock shall comply with all Federal, State and local laws, regulations, ordinances, codes, etc.

(2) Protect during delivery to prevent damage to root ball or desiccation of leaves. Remove unacceptable plant materials immediately from the job site. Maintain and protect until stored at the site.

(3) Transport materials on vehicles large enough to allow materials to be loaded and unloaded. Flats shall be covered to prevent wind damage during transit.

Soil:

(1) Deliver soil on pallets with root system protected from exposure to wind and sun. Deliver soil in quantities capable of being installed within 48 hours of cutting.

Submittals & Approvals:

A. Written request for approval to substitute a plant species or a plant designation (B&B, UB&B, CG, etc.), type, grade, quantity, size, quality, etc. shall be submitted to the Landscape Architect before the material is delivered and installed on the project. The Contractor must provide written proof that the specified plant material is unavailable.

B. Any request for the approval of an equal shall be in writing. Approval shall be given by the Landscape Architect before the material is delivered and installed on the project.

C. Submit three prints of shop drawings for any special conditions not covered in the details. This shall be for approval by the Landscape Architect before they are implemented in the project.

D. If requested by the Owner or Landscape Architect submit a schedule of all specimen plant material and collected plant material indicating the source or supplier of these materials and their locations for approval by the Landscape Architect before they are delivered and installed on the project. Also, two color photographs of each different item, showing different side views of the item shall be submitted with the schedule. Additional color photographs shall be submitted, if requested.

E. If requested by the Owner or Landscape Architect, submit a letter indicating the source or supplier of all soil and the grade to be supplied for approval by the Landscape Architect before it is delivered and installed on the project.

Staking and Guying:

A. Staking and guying shall be the responsibility of the Landscape Contractor. Staking and guying shall not be attached directly to the plant material with nails. Also, batteries used in staking and guying shall not be attached to the plant material with nails. Any method of staking and guying other than those indicated in the details, shall require approval from the Landscape Architect prior to their installation. Under no circumstances will approval be given to allow the plunging, burying, or planting of trees or palms so that the top of the grade, in order to eliminate the need or requirement of staking or guying.

B. The Contractor is responsible for performing all staking and guying in accordance with all applicable regulations, ordinances and code requirements from the appropriate local jurisdiction. The Contractor shall be responsible for maintaining the quality of the material on the project.

C. The decision of whether to stake or guy shall be left to the discretion of the Contractor, provided it is not required according to local regulations, ordinances and code requirements. A Contractor's decision not to stake or guy shall not relieve him or her of the responsibility of re-planting plant material if it blows, falls or leans over. Also, it will not relieve him or her of the responsibility if the material dies as a result of blowing, falling or leaning over.

(3) Should utilities, structures, etc. be encountered which interfere with the work, the Landscape Architect shall determine the location of the work so that it will clear the obstruction. If the obstruction cannot be relocated, the Contractor shall not purposefully disrupt or disconnect any type of utility whatsoever without first obtaining the written permission of the Landscape Architect. The Contractor shall be responsible for the cost of any utility relocation and shall be responsible for the cost of any utility relocation and shall be responsible for the cost of any utility relocation.

(4) The Contractor shall not purposefully disrupt or disconnect any type of utility whatsoever without first obtaining the written permission of the Landscape Architect. The Contractor shall be responsible for the cost of any utility relocation and shall be responsible for the cost of any utility relocation.

(5) The Contractor shall be responsible for the cost of any utility relocation and shall be responsible for the cost of any utility relocation.

(6) The Contractor shall be responsible for the cost of any utility relocation and shall be responsible for the cost of any utility relocation.

(7) The Contractor shall be responsible for the cost of any utility relocation and shall be responsible for the cost of any utility relocation.

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(14) The Contractor shall be responsible for the cost of any utility relocation and shall be responsible for the cost of any utility relocation.

(15) The Contractor shall be responsible for the cost of any utility relocation and shall be responsible for the cost of any utility relocation.

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(24) The Contractor shall be responsible for the cost of any utility relocation and shall be responsible for the cost of any utility relocation.

(25) The Contractor shall be responsible for the cost of any utility relocation and shall be responsible for the cost of any utility relocation.

(26) The Contractor shall be responsible for the cost of any utility relocation and shall be responsible for the cost of any utility relocation.

F. If requested by the Owner or Landscape Architect, submit a sample and analysis of all planting soil types for approval by the Landscape Architect before the material is delivered and installed on the project.

H. If requested by the Owner or Landscape Architect, submit a sample and analysis of the mulch for approval by the Landscape Architect before the material is delivered and installed on the project.

I. Submit three prints of shop drawings for all staking and guying methods to be used if the ones indicated in these Specifications and on the Plans are not to be implemented. The Landscape Architect will approve all shop drawings of the staking and guying methods before they are implemented in the project.

J. Submit in writing any hindrance to the owners routine maintenance or lack of, that may affect installed plant materials growth or survival, that would affect the guarantee of plant material.

K. Submit in writing any hindrance to the timely completion of the installation.

L. Submit and Certificates of inspection of plant material as may be required by State, local or Federal Authorities.

M. When the specified plant designation (B&B, UB&B, CG, etc.), type, grade, quality, size, quantity, etc. of a material is not available, the Contractor shall submit a written request to the Landscape Architect for a substitution along with written documentation that the plant designation (B&B, UB&B, CG, etc.) type, grade, quality, size, quantity, etc. of material is not available. Do not deliver and install any material, which is anticipated to be a substitute before it has been submitted in writing and approved as a substitute by the Landscape Architect. Also, any changes, if any, to the contract amount because of an approved substitution shall be established in writing and approved by the Owner and the Contractor before the material substitute is delivered and installed on the project.

N. If requested by the Owner or Landscape Architect submit a schedule of all specimen plant material and collected plant material indicating the source or supplier of these materials and their locations for approval by the Landscape Architect before they are delivered and installed on the project. Also, two color photographs of each different item, showing different side views of the item shall be submitted with the schedule. Additional color photographs shall be submitted, if requested.

O. If requested by the Owner or Landscape Architect, submit a letter indicating the source or supplier of all soil and the grade to be supplied for approval by the Landscape Architect before it is delivered and installed on the project.

P. If requested by the Owner or Landscape Architect, submit a letter indicating the source or supplier of all soil and the grade to be supplied for approval by the Landscape Architect before it is delivered and installed on the project.

Q. If requested by the Owner or Landscape Architect, submit a letter indicating the source or supplier of all soil and the grade to be supplied for approval by the Landscape Architect before it is delivered and installed on the project.

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W. If requested by the Owner or Landscape Architect, submit a letter indicating the source or supplier of all soil and the grade to be supplied for approval by the Landscape Architect before it is delivered and installed on the project.

X. If requested by the Owner or Landscape Architect, submit a letter indicating the source or supplier of all soil and the grade to be supplied for approval by the Landscape Architect before it is delivered and installed on the project.

Y. If requested by the Owner or Landscape Architect, submit a letter indicating the source or supplier of all soil and the grade to be supplied for approval by the Landscape Architect before it is delivered and installed on the project.

Z. If requested by the Owner or Landscape Architect, submit a letter indicating the source or supplier of all soil and the grade to be supplied for approval by the Landscape Architect before it is delivered and installed on the project.

AA. If requested by the Owner or Landscape Architect, submit a letter indicating the source or supplier of all soil and the grade to be supplied for approval by the Landscape Architect before it is delivered and installed on the project.

AB. If requested by the Owner or Landscape Architect, submit a letter indicating the source or supplier of all soil and the grade to be supplied for approval by the Landscape Architect before it is delivered and installed on the project.

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AG. If requested by the Owner or Landscape Architect, submit a letter indicating the source or supplier of all soil and the grade to be supplied for approval by the Landscape Architect before it is delivered and installed on the project.

AH. If requested by the Owner or Landscape Architect, submit a letter indicating the source or supplier of all soil and the grade to be supplied for approval by the Landscape Architect before it is delivered and installed on the project.

AI. If requested by the Owner or Landscape Architect, submit a letter indicating the source or supplier of all soil and the grade to be supplied for approval by the Landscape Architect before it is delivered and installed on the project.

AJ. If requested by the Owner or Landscape Architect, submit a letter indicating the source or

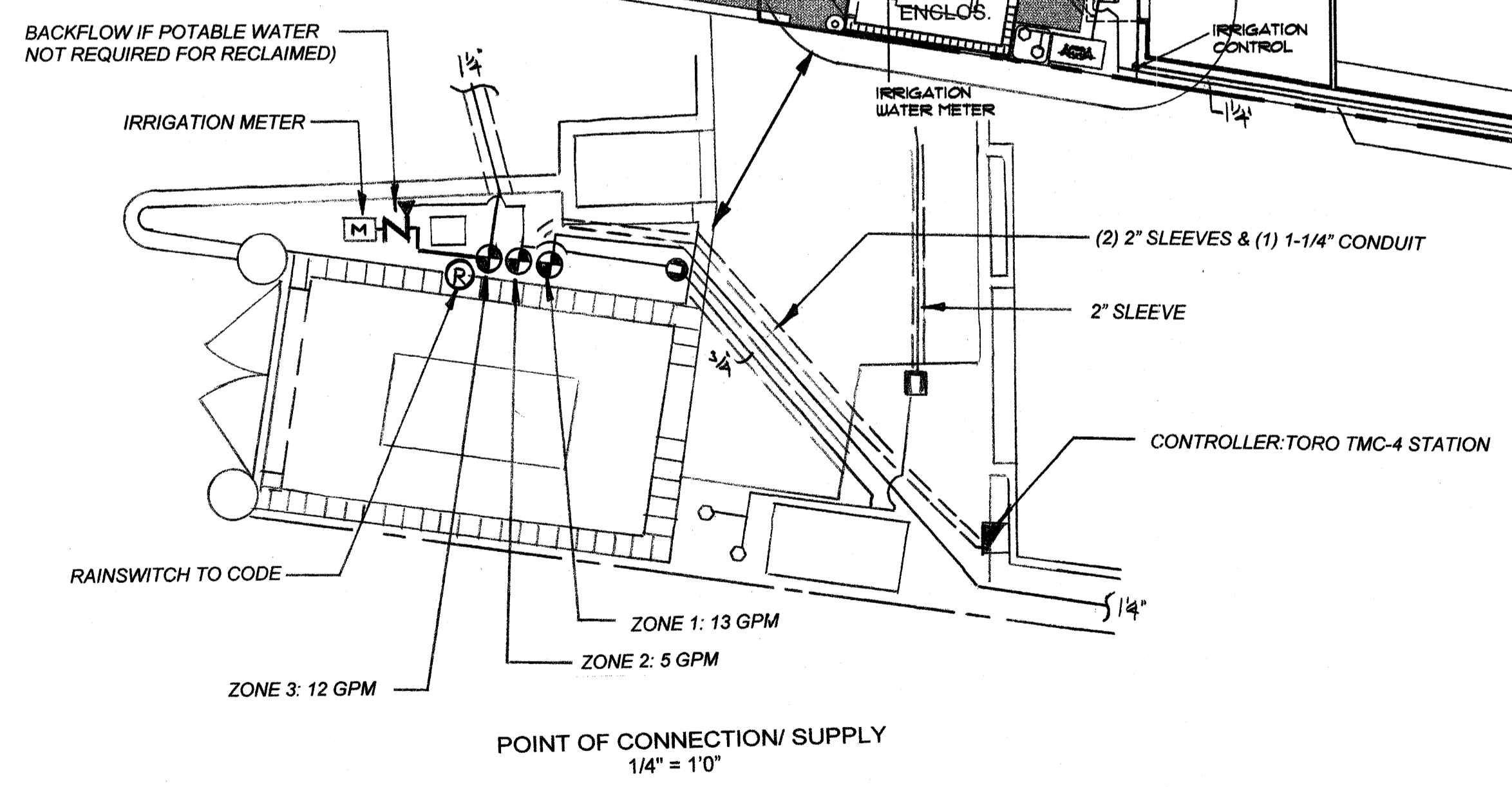
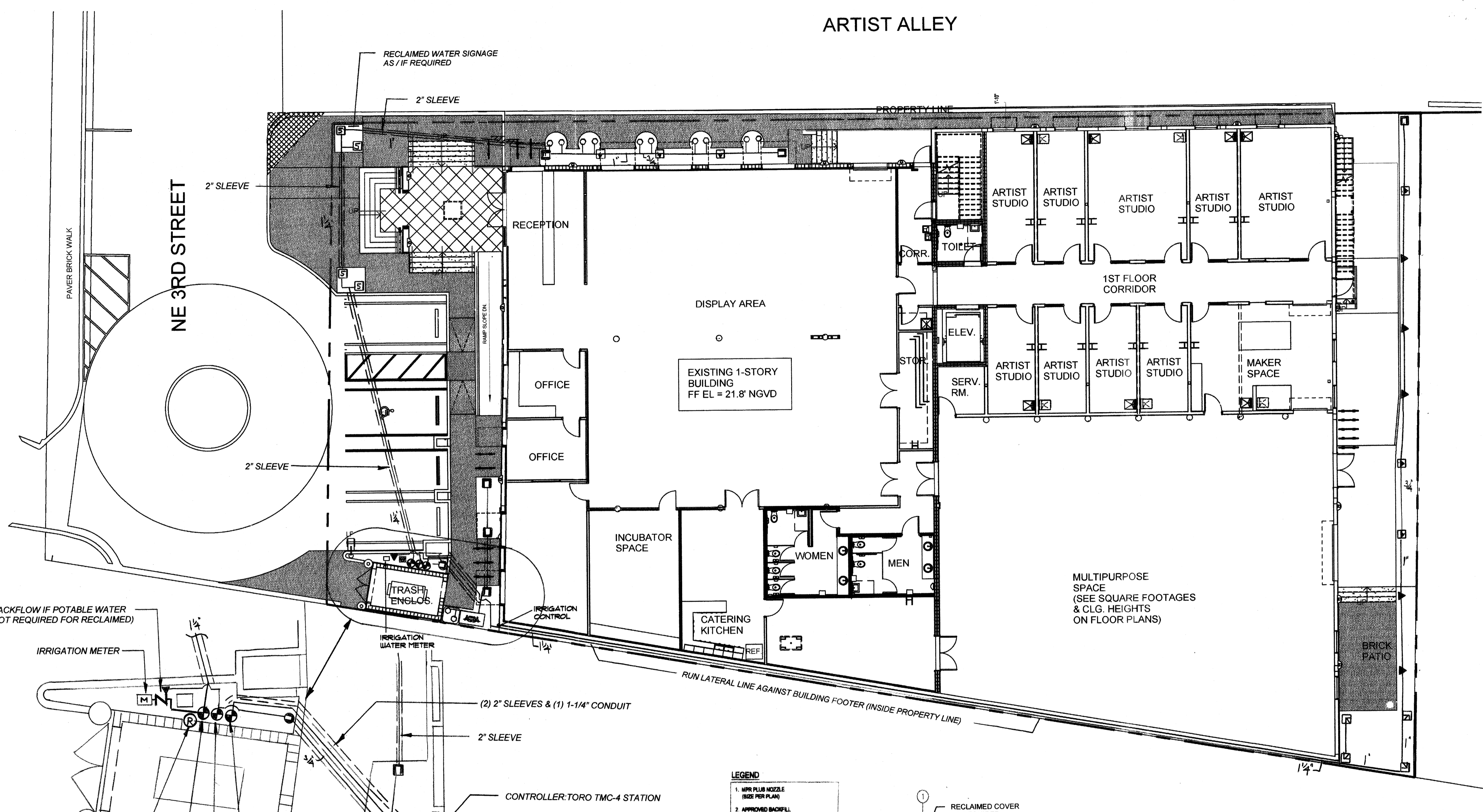
SPRINKLER HEAD LEGEND

SYM.	TYPE	MODEL **	QTY.
	6" POP UP SPRAYS	TORO #570Z-6P-NOZZLE BELOW	7
▲		-4'SST	
●		-4'EST	
○	6" POP UP BUBBLERS	TORO #570Z-6P-FB-50PC	12
	12" POP UP SPRAYS	TORO #570Z-12P-NOZZLE BELOW	20
□		-10'Q	
□		-5'Q	
□		-4'SST	
□		-4'EST	

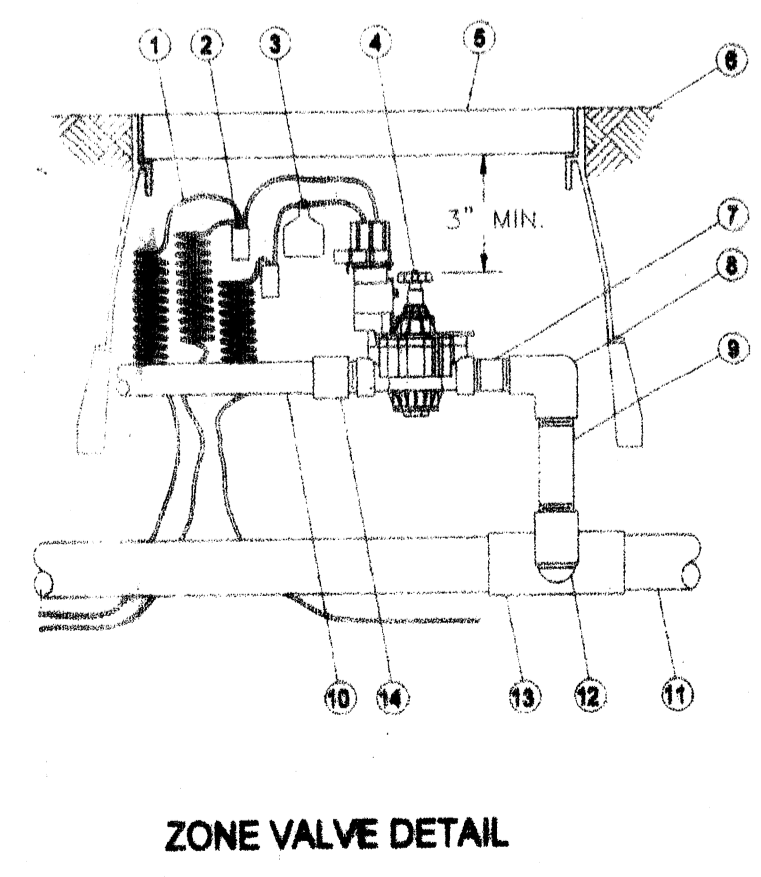
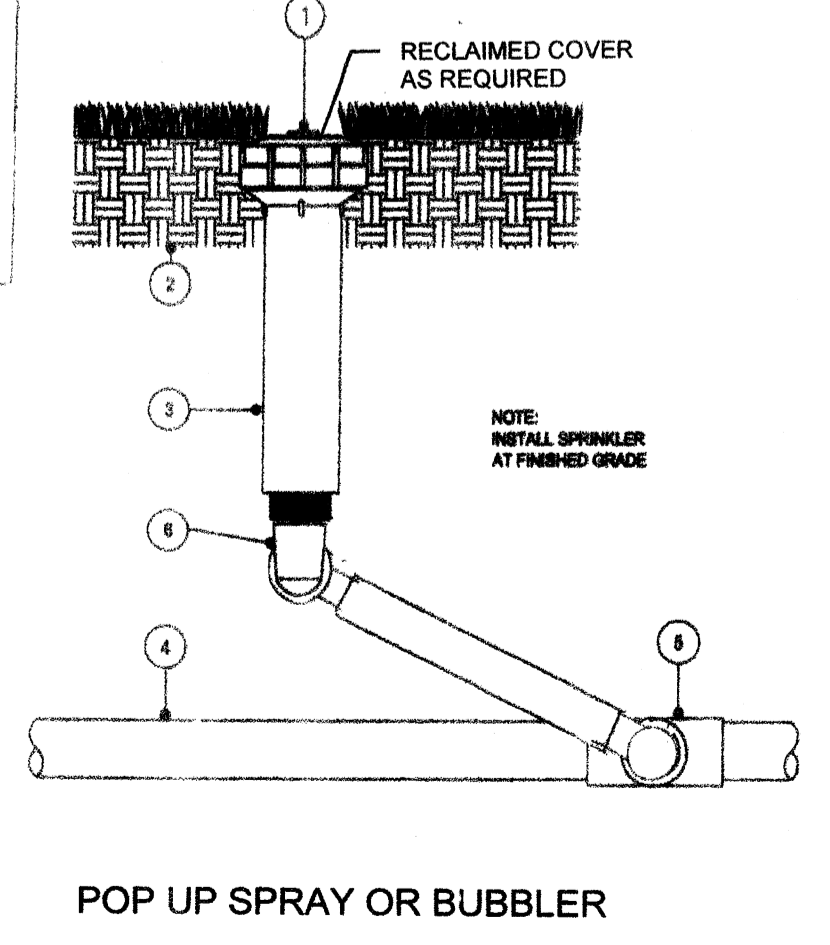
NOTE: USE PROPER SCREENS IN ALL HEADS...
 ** IF RECLAIMED WATER IS USED INSTALL PURPLE NP COVERS TO ALL SPRINKLER HEADS...

NOTES:
 PIPING: TO BE DETERMINED AS FOLLOWS:
 POTABLE WATER
 MAINLINE & SLEEVES: SCH. 40 PVC X 18" DEEP, MIN.
 ZONELINES: CLASS 200 & 180 X 12" DEEP, MIN.
 RECLAIMED WATER:
 MAINLINE: PURPLE CLASS 200PVC X 18" DEEP, MIN.
 ZONE LINES: PURPLE CLASS 200 PVC X 12" DEEP, MIN.
 FITTINGS: SCH. 40 PVC
 FABRICATE WITH SQUARE CUT, DEBURRED AND FULLY ENGAGED JOINTS.
 USE PURPLE CLEANER & GREY MEDIUM BODY CEMENT.
 CONTROL WIRING:
 MIN. # 18 AWG IRRIGATION WIRE RUN IN GREY PVC CONDUIT. SIZED FOR THE NUMBER OF WIRES FROM THE CONTROLLER TO ALL VALVES. RUN 2 SPARE WIRES WITH ALL MAINS CONTROLLER TO VALVES. USE FULL SIZE MOISTURE PROOF CONNECTORS FOR ALL SPLICES. SPLICE ONLY IN A VALVE OR PULL/SPLICE BOX. LEAVE 24" OF COILED WIRE AT ALL CONNECTIONS.
 BACKFILL ALL TRENCHES FREE OF DEBRIS. COMPACT TRENCHES TO ORIGINAL DENSITY. FLUSH ALL LINES. USE PROPER SCREENS IN ALL HEADS. ADJUST ALL HEADS AND SYSTEM FOR COMPLETE COVERAGE AVOIDING WATER ON WALLS, WALKS, ROADWAY, ETC..
 PRESSURE TEST MAIN TO CITY OF DELRAY BEACH CODES AND REGULATIONS
 CONTRACTOR TO VERIFY ALL UNDERGROUND UTILITIES AS REQUIRED BY FLORIDA LAW.

ARTIST ALLEY



- LEGEND
1. NIPPLE PLUS NOZZLE (SIZE PER PLAN)
 2. APPROVED BACKFILL
 3. POP UP SPRAY OR 3/4" ROTOR
 4. LATERAL PIPE
 5. LATERAL TEE
 6. FUNNY PIPE & FITTINGS

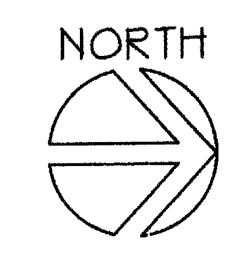


- 1 30 INCH LINEAR LENGTH OF WIRE, COILED
- 2 WATER PROOF CONNECTION (1 OF 2)
- 3 I.D. TAG
- 4 REMOTE CONTROL VALVE: TORO #280-06-04
- 5 VALVE BOX: 10" AMETEX OR CARSON VALVES MAY BE MANIFOLDED IN RECTANGULAR BOX
- 6 FINISH GRADE
- 7 PVC SCH. 80 NIPPLE
- 8 PVC SCH. 40 ELBOW
- 9 PVC SCH. 80 NIPPLE (LENGTH AS REQUIRED)
- 10 PVC LATERAL PIPE
- 11 MAINLINE
- 12 SCH. 80 NIPPLE (2" LENGTH, HIDDEN) AND SCH. 40 ELBOW
- 13 SCH. 40 PVC TEE OR ELBOW
- 14 SCH. 40 PVC FEMALE ADAPTER

project:
Art Warehouse Renovation
 Delray Beach, Florida
 dave bodker
 landscape architecture/planning inc.
 601 n. congress ave., suite 105-a
 delray beach, florida 33445
 561-276-6311
 #LA000999

sheet title:
irrigation plan
 project number:
 7814
 date:
 08-10-15
 scale:
 1" = 10'
 drawn by:
 rjh

revisions:
 ▲
 ▲
 ▲
 ▲



Today's Date: 9/26/2012

Project Number: 20121618

Page 1 of 12

Prepared For:

Kristyn Cox - Goodwin
Delray Beach Cra
20 North Swinton Avenue
Delray Beach, FL 33444

Job Site:

Arts Warehouse
250 Ne 3rd Ave & 313 Ne 3rd Street
Delray Beach, FL

Purchase Order 09-12-269

Asbestos Survey — Project Summary

Pursuant to your request; ARS Environmental, Inc., has performed an Asbestos Building Survey on 9/21/2012 and limited to the above referenced location.

The **Interior/Exterior/Roof** of the above referenced location was visually inspected to identify building materials that may contain asbestos. Suspect materials were collected and samples sent to laboratory for analysis.

Laboratory Results

Based On The Laboratory Analysis, No Asbestos Was Detected In Amounts Greater Than 1% In The Secured Bulk Samples.

It has been a pleasure working with you. Please call on us again.

Regards,



Alex Front,
ARS Environmental, Inc.



(561) 243-7200 Fax: (561) 243-7221

ART CUBE
#14295 9-2-15
10F3

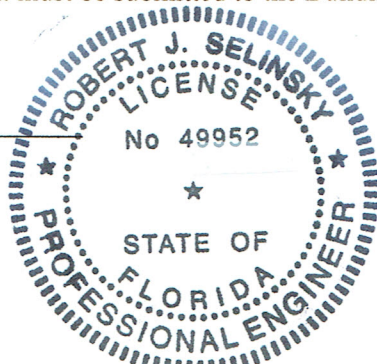
Permit Number: _____ SPECIAL INSPECTOR FORM

You are hereby directed, as stated in the State of Florida Statute Sections 553.71.7 and 553.79.5 (a), or as deemed necessary by the City of Delray Beach Building Official, to retain a professional engineer or architect as a Special Inspector for the following Special Inspections checked below:

- N/A 1. Verify that all soil conditions have been certified/soil treatment certification.
- N/A 2. Verify that all setbacks have been certified.
- 3. Make visual inspection of all components which cannot be inspected after fabrication.
- 4. All steel inspected prior to concrete placement.
- N/A 5. Verify that shoring and re-shoring has been certified and to check that shoring is safe.
- N/A 6. Be present and monitor all concrete placement.
- 7. To inspect all structural components of buildings such as, but not limited to:
 - a. Footer or piling
 - b. Slabs – on grade or below or above grade
 - c. Beams and columns (all structures)
 - d. All structural walls and non- structural walls
 - ~~e. Fire resistive ratings for: _____~~
 - f. Floor and Roof trusses
 - g. Sheathing
- 8. Special Inspector is required to make written reports weekly to the Building Official.
- N/A 9. Special Inspector is responsible for all job safety requirements as per the 2014 Florida Building Code to include the required liability insurance of \$500K (see L.D.R. 7.1.6 (B)).
- 10. Other: MISC INSPECTION AT OUR DISCRETION
- N/A 11. Flood Elevation above MSL-NGVD.

The Special Inspector shall be responsible for compliance with this Code and shall submit progress reports and inspection reports to the Building Official. The assignment of a Special Inspector does not relieve the contractor from calling in for inspections to the City’s Building Division and having City inspectors look at work. At the completion of the construction work on this project, the Special Inspector shall submit a Certificate of Compliance to the Building Official, stating that the work was done in compliance with this Code and in accordance with the approved plan or plans; and his duties shall end with the submission of such certificate. Final inspection shall be made by the Building Official before a Certificate of Occupancy is issued. A copy of this document must be submitted to the Building Official, signed and sealed prior to the building permit being issued.

Date: 9-2-15



Building Official

[Signature]
Special Inspector

ART CURE
9-2-15
2013

Preconstruction Affidavit

I, ROBERT J SELINSKY, hereby swear that I am a (professional qualification) PE, therefore qualified to be a special inspector for (name of building or project) ART CURE under Florida Statute 553,79(5)(b), which requires that a special inspector be a person certified, licensed or registered under Florida Statute, Chapter 471 as an engineer or Florida Statute, Chapter 481 as an architect and qualified by the State Board of Building Codes and Standards.

I further declare that I have adequate knowledge and training to inspect, determine and evaluate the structural components of the threshold building for safety and to verify in accordance with the structural inspection plans that they comply with permitted documents as well as shoring and re-shoring plans. I also state that I am not an employee of the general contractor nor any subcontractor and neither are any special inspectors working under my direction.

I agree to be present, or to have a representative under any supervision and direction qualified to make inspections on my behalf present, in conformity with the structural inspection plan and as-needed for determining compliance with shoring and re-shoring plans, to conduct required inspections, and to keep a written report of the inspection. The report shall set forth in detail any lack of compliance with plans, specifications, or applicable Minimum Building Codes. I agree to file reports in accordance with the directions of the Building Official. I understand that I shall be permitted to send a duly authorized representative to the job site to perform the necessary inspection provided that all written reports shall be prepared and bear my seal and that such written reports will be submitted to the Building Official.

I understand that I will be required to file a second affidavit at the completion of the project, which shall state that I was present and inspected all, or in some cases certain enumerated, structural components of the building as required by the structural inspection plan and shoring and re-shoring plans and deem them to be safe and find that the materials and workmanship comply fully with the plans, specifications and applicable Minimum Building Codes.

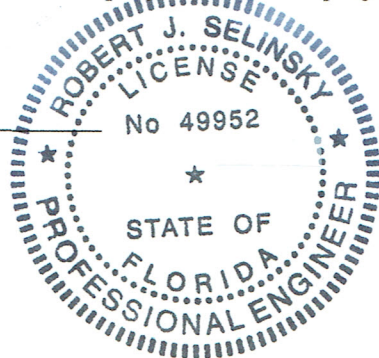
I understand that my affidavit shall be relied upon completely by the City of Delray Beach in using a Certificate of Occupancy.

If my (our) employment as a special inspector on this project terminates prior to completion for any reason, I agree to turn over to the Building Department a copy of my written reports on whatever structural components I have inspected or supervised the inspection of, up to the time of my termination.

I understand that the City of Delray Beach, Florida has no obligation to compensate me for my services as a special inspector, or to determine the amount of my compensation. I also understand that I am neither an employee nor an agent of the City.

I have in force at this time professional liability insurance in an amount not less than \$500,000 to cover all liability arising from my (our) employment and duties as a special inspector on this project. I agree to hold harmless, save, indemnify and defend the City of Delray Beach from all liability arising out of my obligations, actions, failure to act and employment on this project.

Date: 9-2-15



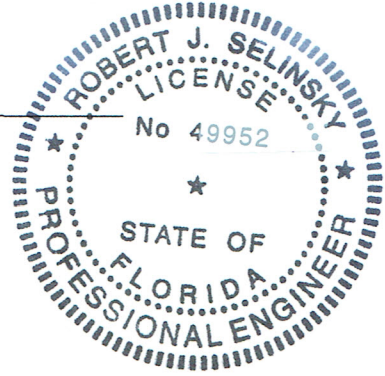
Building Official
[Signature]
Special Inspector

ART CURE
9-2-15
3 OF 3

Affidavit of Compliance
(required for c.o.)

I, (name) ROBERT J SELINSKY, being a
(professional qualification) PE and
therefore, qualified under Florida Statute 553.79 to be a special inspector for the purposes of
inspecting the structural components of the threshold building pursuant to the structural
inspection plan on file with the accepted by the Building Department and the shoring and re-
shoring plans, which have been accepted by the Building Department and hereby swear that I,
or my duly authorized representative have been present during the construction of and inspected
the structural components of this building as required by the structural inspection plan and
certify that the materials and workmanship of all such components have been safely constructed
and comply fully with permitted documents and applicable Building Codes.

Date: 9-2-15



Building Official
R. Selinsky

Special Inspector

Permit Number

The First Ever Thermostatic Temperature Controlled Heater With Code Compliant Integrated Mixing Valve

AccuMix Series



Stay Ahead of Plumbing Codes with AccuMix from Eemax

Confused by plumbing codes? Over time, plumbing codes have changed and what may have worked before, might not work with new water heaters on the market. Simply buying a mixing valve and plumbing it into an existing water heater doesn't always meet the latest codes.

Knowing the Code

Designated as an American National Standard, the Uniform Plumbing Code (UPC) is a model code developed by the International Association of Plumbing and Mechanical Officials (IAPMO). It governs the installation and inspection of plumbing systems as a means of promoting the public's health, safety, and welfare. The UPC is designed to provide consumers with safe and sanitary plumbing systems while, at the same time, allowing latitude for innovation and new technologies.

ASSE 1070-2004 is a standard that applies to mechanical mixing valves to ensure that they comply with UPC 413.1. It states: "Water Temperature Limiting Devices shall control & limit the water temperature to fittings for sinks, lavatories, or bathtubs and are intended to reduce the risk of scalding. They are intended to supply tempered water to plumbing fixture fittings, or be integral with plumbing fixture fittings supplying tempered water. The device shall be equipped with an adjustable and lockable means to limit the setting towards the hot position."



Section 413.1 of the Uniform Plumbing Code is entitled "Limitation of Hot Water Temperature for Public Lavatories" – which states – "Hot water delivered for public-use lavatories shall be limited to a maximum temperature of 120°F. The water heater thermostat shall not be considered a control for meeting this provision." UPC 413.1, when used as the basis for the municipal building code, is the actual standard which must be met from a regulatory standpoint. In contrast, ASSE 1070-2004 specifies the performance of mechanical mixing valves when used as active thermal limiters in attempting to satisfy UPC 413.1. The mixing valve serves as a safety mechanism in a public lavatory to prevent the possibility of a scald. In essence, the mechanical mixing valve should be considered to be a cooling device, mixing enough cold water into a stream of hot water to lower the output at the tap to less than 120°F.

AccuMix: A Simple Solution

In order to meet the provisions of UPC 413.1, Eemax has added an ASSE 1070-2004 code compliant mechanical mixing valve to their AccuMix Series of Electric Tankless Water Heaters. The new AccuMix heaters feature an internally calibrated valve and circuit board which work together to prevent issues during the installation process. With AccuMix, the temperature of the heater is factory pre-set to 105°F for hand-washing applications and must not be adjusted. Tampering with the preset temperature will not only void the warranty, it may cause a loss of compliance to UPC 413.1.

AccuMix is for hand-washing applications only. For constant and safe water output, AccuMix is the ideal solution in single and multi-lavatory applications in stores, restaurants, medical environments, office buildings, factories, and more. Commercial buildings need to meet the latest plumbing codes, however, not all locations are currently being policed for the code. As time goes by, the code will become more enforced. AccuMix features internal set-up with fewer connections and simplified fittings which cuts down on installation time. **Leak Tested – Self Contained – Simplified Plumbing.** AccuMix from Eemax makes it affordably possible to stay ahead of plumbing codes.



Eemax, Inc.
353 Christian Street, Oxford, CT 06478
(800) 543-6163
eemax.com



*The wetted surface of this product contacted by water contains less than 0.25% lead and meets California and Vermont Lead Free laws.
© 2010 Eemax, Inc. All Rights Reserved. PATENT PENDING TECHNOLOGY
EX09001-13

The First Ever Thermostatic Temperature Controlled Heater With Code Compliant Integrated Mixing Valve

AccuMix
Series




MEET THE CODE WITH CONFIDENCE & SIMPLICITY!

electric tankless water heater

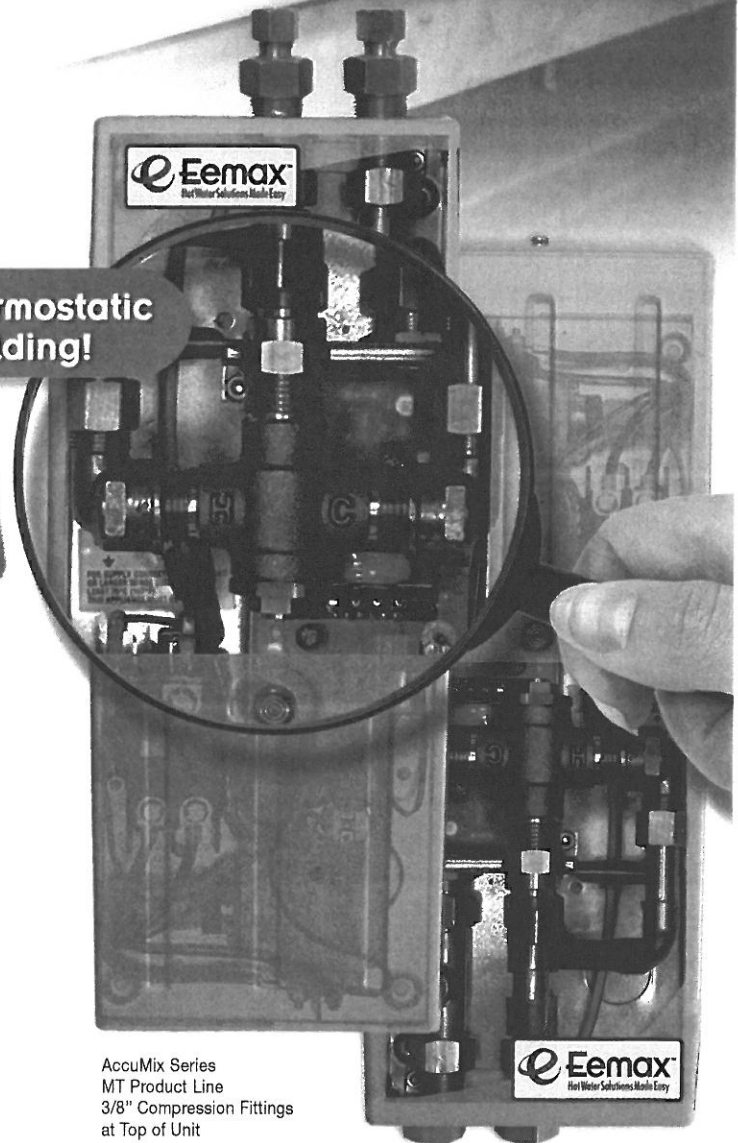
AN ENERGY-EFFICIENT, INSTANT WATER HEATER
THAT HEATS ONLY THE WATER YOU USE!

heater contains an ASSE approved thermostatic mixing valve to prevent the risk of scalding!

FEATURES:

- Eemax Exclusive Turnkey Solution
- Meets UPC 413.1 Requirements When Properly Installed
- No Scalding or Temperature Spikes
- Factory Calibrated Mixing Valve and Thermostatic Temperature Control Board for Accuracy
- Product Performance Test Indicator Light
- 99% Energy Efficient Reducing Your Utility Costs
- Quick and Easy Installation — Integrated valve solution
- On-Demand Hot Water — Never run out
- Factory Temperature Set to 105°F
- Quick Temperature Ramp Up Time
- Compatible with All Sensor and Non-Sensor Faucets
- ADA Compliant 
- Unit Measures: 13.5" H x 5" W x 4" D

MIXING VALVE
Meets ASSE
1070-2004



AccuMix Series
MT Product Line
3/8" Compression Fittings
at Top of Unit

AccuMix Series
MB Product Line
1/2" Compression Fittings
at Bottom of Unit



N LEAD*

TÜV Rheinland*
Precisely Right.



*The wetted surface of this product contacted by water contains less than 0.25% lead and meets California and Vermont Lead Free laws.

The First Ever Thermostatic Temperature Controlled Heater With Code Compliant Integrated Mixing Valve

AccuMix
Series



VOLTAGE
POWER (kW)
AERATORS SUPPLIED/UNIT
SUPPLY CIRCUITS REQUIRED
RECOMMENDED WIRE SIZE
TURN-ON (GPM)
WATER CONNECTIONS
COMPRESSION FITTINGS
TEMP RISE AT 0.5 GPM (F)
TEMP RISE AT 1.0 GPM (F)
TEMP RISE AT 1.5 GPM (F)

MT PRODUCT LINE – 3/8" COMPRESSION FITTINGS AT TOP OF UNIT

MT004120T	120	3.5	1	29A	10 AWG	0.3	3/8"	Top	48°	—	—
MT005240T	240*	4.8	1	20A	12 AWG	0.3	3/8"	Top	64°	31°	21°
MT007240T	240*	6.5	2	27A	10 AWG	0.3	3/8"	Top	†	44°	30°
MT010240T	240*	9.5	3	40A	8 AWG	0.3	3/8"	Top	†	65°	43°
MT008277T	277	8.0	2	29A	10 AWG	0.3	3/8"	Top	†	55°	36°
MT010277T	277	10.0	3	40A	8 AWG	0.3	3/8"	Top	†	68°	46°



MT VERSION

MB PRODUCT LINE – 1/2" COMPRESSION FITTINGS AT BOTTOM OF UNIT

MB004120T	120	3.5	1	29A	10 AWG	0.3	1/2"	Bottom	48°	24°	16°
MB005240T	240*	4.8	1	20A	12 AWG	0.3	1/2"	Bottom	64°	31°	21°
MB007240T	240*	6.5	2	27A	10 AWG	0.3	1/2"	Bottom	†	44°	30°
MB010240T	240*	9.5	3	40A	8 AWG	0.3	1/2"	Bottom	†	65°	43°
MB012240T	240*	11.5	4	50A	6 AWG	0.3	1/2"	Bottom	†	79°	52°
MB008277T	277	8.0	2	29A	10 AWG	0.3	1/2"	Bottom	†	55°	36°
MB010277T	277	10.0	3	40A	8 AWG	0.3	1/2"	Bottom	†	68°	46°

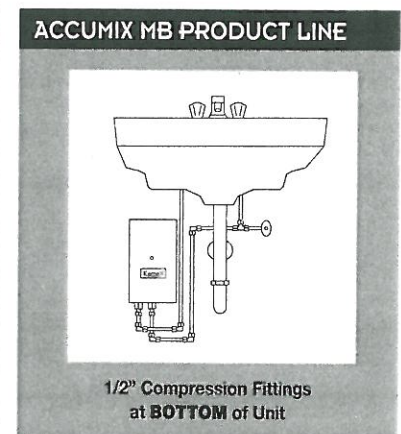
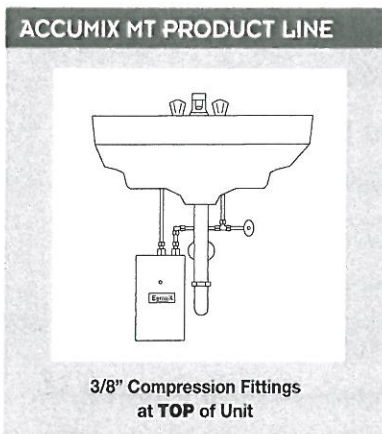


MB VERSION

*240V units can be used on 208V with 25% reduced temperature output.
†Units are factory preset to not exceed 105°F no matter what the temperature rise is.

ENERGY EFFICIENT & EASY TO INSTALL

For constant and safe water output, AccuMix eliminates the risk of scalding. AccuMix is the ideal hand washing solution for single and multi-lavatory applications in stores, restaurants, medical environments, office buildings, factories or any commercial building. It is the first ever thermostatic temperature controlled heater with a code compliant mechanical integrated mixing valve. This unit features internal piping with fewer connections and simplified fittings which cuts down on installation time. Now you can stay ahead of plumbing codes with the AccuMix Series from Eemax.



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