

ORANGE COUNTY CAPITAL PROJECT DIVISION
INTERNAL OPERATIONS CENTER II
400 E. SOUTH STREET, 5TH FLOOR
ORLANDO, FL 32801

ORANGE COUNTY MAYOR
HONORABLE TERESA JACOBS

COMMISSIONER DISTRICT 1
BETSY VANDERLEY

COMMISSIONER DISTRICT 2
BRYAN NELSON



COMMISSIONER DISTRICT 3
PETE CLARKE

COMMISSIONER DISTRICT 4
JENNIFER THOMPSON

COMMISSIONER DISTRICT 5
EMILY BONILLA

COMMISSIONER DISTRICT 6
VICTORIA P. SIPLIN

PROJECT
BITHLO VEHICLE MAINTENANCE BUILDING
18715 OLD CHENEY HIGHWAY
ORLANDO, FL 32820

ORANGE COUNTY PROJECT MANAGER: SCOTT REEKIE

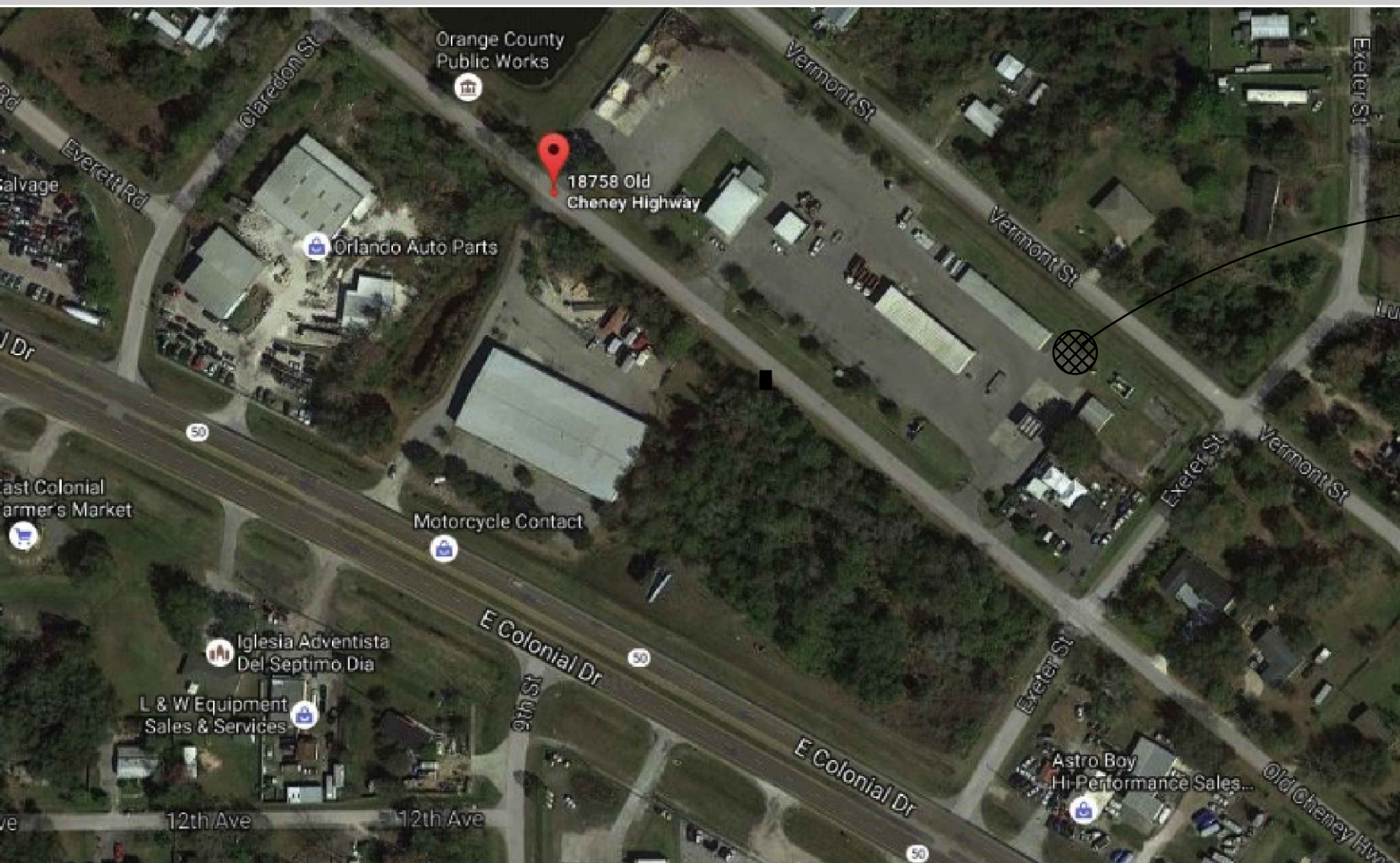
BASE CONSULTANTS



ARCHITECTURAL DESIGN COLLABORATIVE



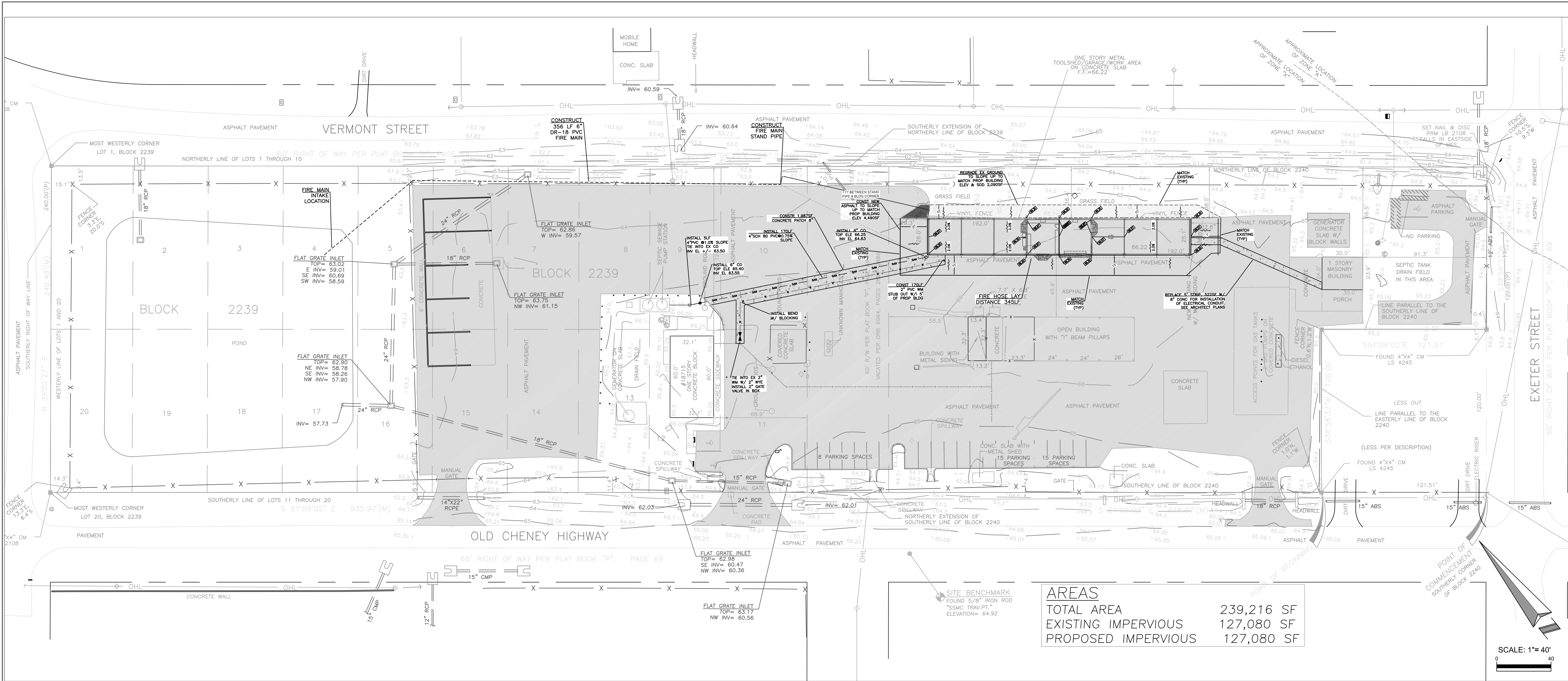
SGM ENGINEERING



SITE

LOCATION MAP

CONSTRUCTION SET
11.10.17



FIRE FLOW:

CONSTRUCTION TYPE IS TYPE IIB OR NFPA II(000) = 5345 SF

REQUIRED FIRE FLOW PER TABLE 18.4.5.2.1 (NFPA 1 2015 EDITION) = 1,500 GPM.

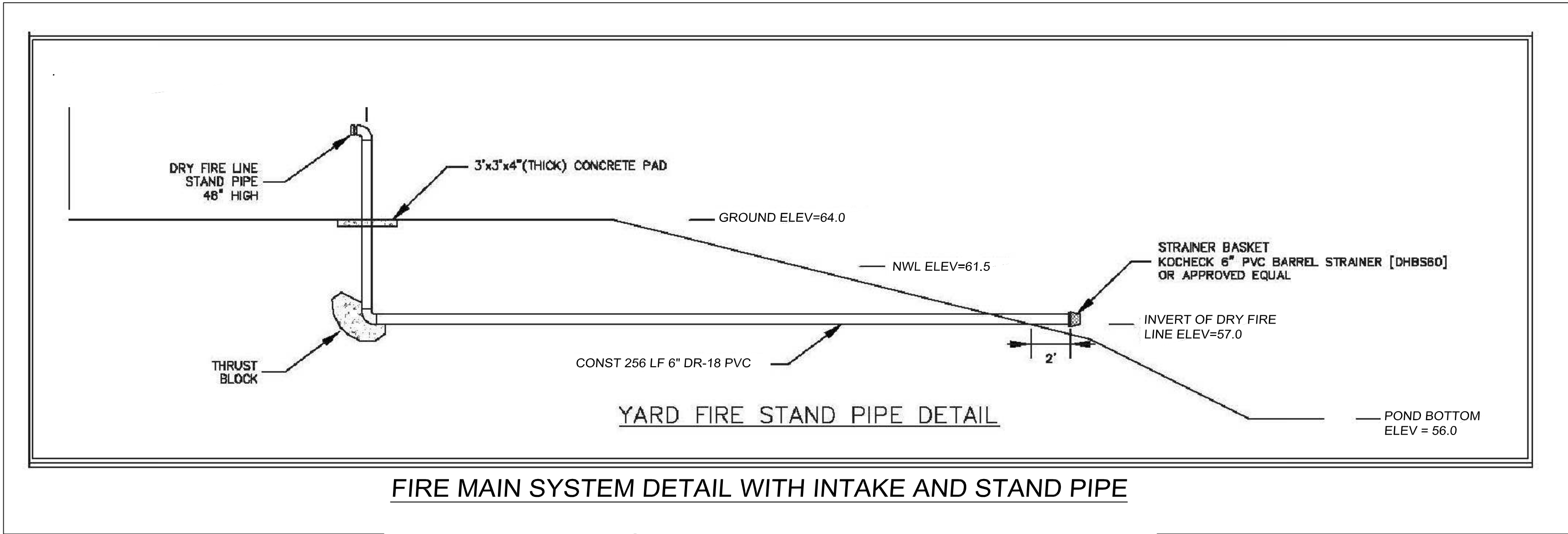
FIRE LINES ARE OVER 4.2 MILES AWAY

USING NFPA 1142 - STANDARD ON WATER SUPPLIES FOR SUBURBAN AND RURAL FIRE FIGHTING (2012)

MINIMUM REQUIRED WATER SUPPLY = 17,538 GALLONS

THE NORMAL WATER LEVEL BASED ON ST. JOHNS RIVER WATER MANAGEMENT DISTRICT PERMIT IS AT ELEVATION 61.5 FT. BASED ON THE POND SIZE THE PROVIDED WATER SUPPLY IS 903,421 GALLONS (51 TIMES THE REQUIRED VOLUME)

DROUGHT STUDY: IN THE UNLIKELY EVENT THAT THE POND WATER LEVEL WOULD DROP 3.5-FT BELOW THE NORMAL LEVEL LEVEL (TO ELEVATION 58.0) THE PROVIDED WATER SUPPLY IS 270,456 GALLONS (15 TIMES THE REQUIRED VOLUME)



Project Documents for:



Project:
BITHLO VEHICLE MAINTENANCE BUILDING
18715 OLD CHENEY HIGHWAY
ORLANDO, FL 32820

Issue	Date & Issue Description	Drawn By	Checked By
11.09.16	60% CD SET	JS	KA
01.24.17	90% CD SET	JS	KA
03.08.17	PERMIT ISSUE SET	JS	KA
09.26.17	CODE COMMENTS	JS	KA
11.10.17	CONSTRUCTION SET	JS	KA

• PLANNING

• INTERIOR DESIGN

Client Information
ORANGE COUNTY CAPITAL PROJECTS DIVISION
400 E SOUTH STREET
ORLANDO, FL 32801

Project Number
1083
Drawn By
JE
Checked By
JE

Issue Date
11/10/2017
Project Status
CONSTRUCTION SET
Scale

File Name
E:\Docs\Team-Eng\Projects\TEAM Eng\Orange County\BithloMain\BithloDesign01.dwg

Consultant
• Seal/Signature
JEFF EARTHART, PE #49935

TEAM Engineering, LLC

CERTIFICATE OF AUTHORIZATION No. 29813
PO BOX 560833
ORLANDO, FL 32856
407-491-1624

Sheet Title:

**CIVIL SITE
GRADING &
UTILITY PLAN**



ARCHITECTURAL ABBREVIATIONS

A	
ACCES	ACCESSORY
ACOUS	ACOUSTIC(AL)
AFF	ABOVE FINISHED FLOOR
AHJ	AUTHORITY HAVING JURISDICTION
AL	ALUMINUM
ALT	ALTERNATE
ANNUNC	ANNUNCIATOR
ANOD	ANODIZED
APPL	APPLIANCE
ARCH	ARCHITECT(URAL)
AUTO	AUTOMATIC
AVG	AVERAGE
&	AND

B	
BLDG	BUILDING
BOLLD	BOLLARD
BD	BOARD
BLKG	BLOCKING
BRDLM	BROADLOOM
BU	BUILT UP

C	
CAB	CABINET
CPT	CARPET
CEM	CEMENT(TIOUS)
CER	CERAMIC
CLG	CEILING
COATG	COATING
COILG	COILING
CONC	CONCRETE
CONSTR	CONSTRUCTION
CONT	CONTINUOUS(ATION)
CONTR	CONTRACT(OR)
COV	COVER
CMU	CONCRETE MASONRY UNIT

D	
DBL	DOUBLE
DEPT	DEPARTMENT
DES	DESIGN(ED)
DET	DETAIL
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DIFF	DIFFUSER
DIM	DIMENSION
DISP	DISPENSER
DIV	DIVISION
DN	DOWN
\$	DOLLAR (US CURRENCY)
DR	DOOR
DSCON	DISCONNECT
DWR	DRAWER

E	
ELAST	ELASTOMERIC
ELEC	ELECTRICAL
EMBED	EMBEDD(ED)(ING)
ENGR	ENGINEER(ED)
ENTR	ENTRANCE
EQ	EQUAL
EQUIP	EQUIPMENT
EXIST	EXISTING
EXP JT	EXPANSION JOINT
EXPS	EXPOSE(D)
EXT	EXTERIOR

F	
FAB	FABRICATION
FD	FLOOR DRAIN
FE	FIRE EXTINGUISHER
FE&C	FIRE EXTINGUISHER AND CABINET
FHC	FIRE HOSE CABINET
FIN	FINISH
FLDG	FOLDING
FPLC	FIREPLACE
FR	FIRE RAT(ING)(ED)
FRMG	FRAMING
FXD	FIXED
FXTR	FIXTURE
FLR	FLOOR(ING)
FURN	FURNITURE
FUT	FUTURE
FWC	FABRIC WALL COVERING
FUT	FUTURE

G	
GA	GAUGE
GFRC	GLASS FIBER REINFORCED CONCRETE
GFRG	GLASS FIBER REINFORCED GYPSUM
GFRP	GLASS FIBER REINFORCED PLASTER
GL	GLASS
GR	GRAD(E)(ING)
GYP	GYPSUM

H	
HD	HEAD
HDWD	HARDWOOD
HDWE	HARDWARE
HM	HOLLOW METAL
HORIZ	HORIZONTAL
HVAC	HEATING, VENTILATING, AND AIR CONDITIONING

I	
INFO	INFORMATION
INSTRUM	INSTRUMENT(ATION)
INSUL	INSULATION
INTLK	INTERLOCK(ING)
INT	INTERIOR
INFILTR	INFILTRATION

J	
JAN	JANITOR

K	
KIT	KITCHEN

L	
LAV	LAVATORY
LB	POUND
£	BRITISH POUND (CURRENCY)
LT	LIGHT
LVLG	LEVELING
LVR	LOUVER

M	
MAX	MAXIMUM
MFD	MANUFACTURED
MFR	MANUFACTURER
MECH	MECHANICAL
MET	METAL
MEMB	MEMBRANE
MEZZ	MEZZANINE
MIN	MINIMUM
MISC	MISCELLANEOUS
MLWK	MILLWORK
MOIST	MOISTURE
MOT	MOTOR(IZED)
MTD	MOUNTED

N	
NIC	NOT IN CONTRACT
NO	NUMBER
NTS	NOT TO SCALE

O	
ORNA	ORNAMENTAL
OVFL	OVERFLOW
OVHD	OVERHEAD
OPNG	OPENING(S)
OPR	OPERABLE

P	
PTN	PARTITION
PEDTR	PEDESTRIAN
PBD	PARTICLE BOARD
PJM	PROJECT MANAGER
PNL	PANEL
POLYST	POLYSTYRENE
PORT	PORTABLE
PREFIN	PREFINISHED
PREFAB	PREFABRICATED
PLAM	PLASTIC LAMINATE
PLAS	PLASTER
PLSTC	PLASTIC
PLYWD	PLYWOOD
PRTECN	PROTECTION

R	
RDR	READER
RECES	RECESSED
RECPT	RECEPTACLE
REF	REFER(ENCE)
REFL	REFLECTED
REFR	REFRIGERATOR
REQD	REQUIRED
RESIS	RESIST(ANT)(IVE)
REINF	REINFORCE(D)(ING)(MENT)
RESIL	RESILIENT
RFG	ROOFING
RM	ROOM
RO	

S	
SCR	SCRIBE
SECUR	SECURITY
SF	SQUARE FEET
SGL	SINGLE
SHORG	SHORING
SIM	SIMILAR
SST	STAINLESS STEEL
STD	STANDARD
STL	STEEL
STRFR	STOREFRONT
STRUCT	STRUCTURAL
SURF	SURFACE
SUSP	SUSPENDED
SYS	SYSTEM(S)

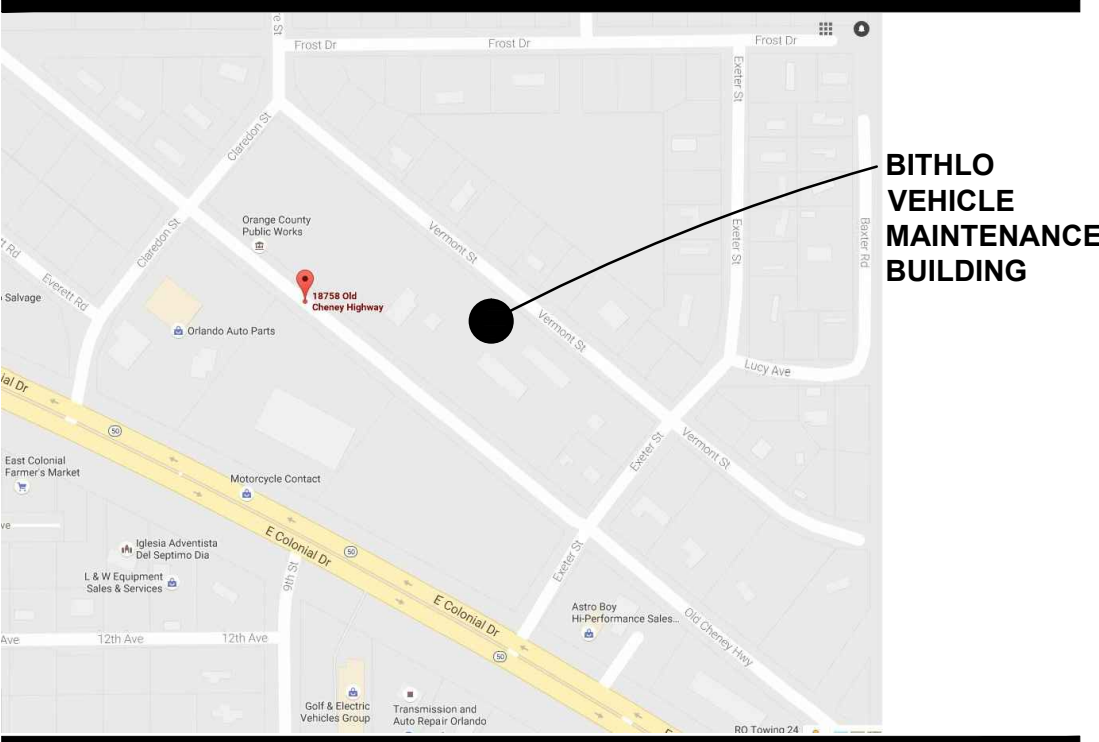
T	
THK	THICK
TLT	TOILET
TRAF	TRAFFIC
TRANS	TRANSPARENT
TRTD	TREATED
T&G	TONGUE AND GROOVE
TYP	TYPICAL

U	
UNDRLAY	UNDERLAYMENT
UTIL	UTILITY
UNO	UNLESS NOTED OTHERWISE

V	
VEH	VEHICLE
VERT	VERTICAL
VIF	VERIFY IN FIELD

W	
W/	WITH
WC	WATER CLOSET
WD	WOOD
WDW	WINDOW
W/O	WITHOUT
WT	WEIGHT
WTRPRF	WATERPROOFING

VICINITY MAP



DESIGN CRITERIA

DESIGN WIND LOADS:	
ULTIMATE WIND SPEED	146 MPH
RISK CATEGORY	111
EXPOSURE	C
BUILDING TYPE:	PARTIALLY ENCLOSED
INTERNAL PRESSURE COEFFICIENT (GCpl)	+/- 0.18

EGREE TRAVEL SUMMARY

EXIT ROUTE	TRAVEL DISTANCE
COMMON PATH	3'-8"
EXIT PATH #1	50'-11"
EXIT PATH #2	36'-2"
DIAGONAL DISTANCE	53'-5"

PROJECT INFORMATION

APPLICABLE CODES
FLORIDA BUILDING CODE - 2014
FLORIDA BUILDING CODE ACCESSIBILITY (5th EDITION 2014)
FLORIDA FIRE PREVENTION CODE - (5th EDITION)
NFPA 101 - LIFE SAFETY CODE 2012 WITH FLORIDA AMENDMENTS
NFPA 1- UNIFORM FIRE CODE 2012 WITH FLORIDA AMENDMENTS
NFPA 70 - NATIONAL ELECTRICAL CODE -2011
FLORIDA MECHANICAL CODE - N/A

OCCUPANCY	
GROUP CLASSIFICATION:	MODERATE HAZARD STORAGE S-1
OCCUPANT/SQ. FT.:	300
SCOPE OF WORK SQ. FT.:	4,938 SQ. FT.
OCCUPANT DESIGN LOAD:	4,938 SQFT/300 = 16.46 OR 16 OCC.

CONSTRUCTION	
TYPE:	II B
SPRINKLED or NONSPRINKLED:	NONSPRINKLED
BUILDING HEIGHT:	17'-5"

CLASSIFICATION OF WORK
NEW ENCLOSED PRE-MANUFACTURED METAL TOOL & GARAGE BUILDING WITH (6) COVERED, UN-ENCLOSED NEW METAL PRE-ENGINEERED METAL BAYS CONSTRUCTED FOR PARKING AND MAINTENANCE OF COUNTY VEHICLES.

PLUMBING REQUIREMENTS:	N/A
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PROJECT NARRATIVE

PROJECT NARRATIVE/SCOPE OF WORK
THIS PROJECT IS TO DEMOLISH THE EXISTING METAL BUILDING TOOL SHED ALONG WITH THE 5-BAY STRUCTURE ON THE NORTHSIDE OF THE OLD CHENEY HIGHWAY PROPERTY. REPLACE WITH A NEW VEHICLE MAINTENANCE BUILDING MODELED FROM THE COUNTY'S THREE POINTS MAINTENANCE FACILITY. THE NEW BUILDING WILL BE A PRE-ENGINEERED METAL BUILDING COMPOSED OF (6) 24'-0" WIDE BAYS WITH A PRE-MANUFACTURED METAL TOOL/MAINTENANCE ROOM CALLED A "HURP" AND ENCLOSED GARAGE WITH ROLL-UP DOOR. THE PURPOSE OF THIS NEW BUILDING IS FOR VEHICLE STORAGE AND MINOR MAINTENANCE, ANY MAJOR AUTO REPAIRS WILL BE TAKEN OFF-SITE AND HANDLED BY FLEET MANAGEMENT. THE EXISTING BUILDING WAS IN DISREPAIR AND IN POOR CONDITION.THE NEW BUILDING WILL BE CONSTRUCTED WEST OF THE FORMER BUILDING SITE TO ACCOMMODATE THE LONGER FOOTPRINT. AN ADDITIONAL BUILDING WILL BE DEMOLISHED NEAR THE FUEL PUMPS AND ALL POWER, DATA, AND UTILITIES WILL BE RELOCATED FROM THAT BUILDING TO THE NEW PRE-MANUFACTURED METAL BUILDING. MINOR PLUMBING IS REQUIRED FOR A NEW UTILITY SINK AND ICE MAKER. ADDITIONAL EQUIPMENT WILL BE INSTALLED SUCH AS AN AIR COMPRESSOR AND 2-TON CRANE. LASTLY, THE EXISTING WET POND WILL RECEIVE A FIRE DEPARTMENT CONNECTION (DRY HYDRANT) TO PROVIDE FIRE FLOW WATER IN CASE OF EMERGENCY.

SCOPE OF WORK NOTES:

1. WORK THAT IS NOT STATED HEREIN NOR SHOWN IN THESE PLANS IS NOT PART OF THE SCOPE OF WORK FOR THIS PROJECT.
2. ADDITIONAL WORK REQUIRED THAT WOULD ALTER THE PRESENTED SCOPE OF WORK SHALL BE SUBJECT TO A REVISION OF THESE DOCUMENTS AND MAY BE REQUIRED TO BE REVIEWED BY THE BUILDING DEPARTMENT HAVING JURISDICTION.

DRAWING INDEX

COVER	COVER SHEET
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CIVIL	
C1	CIVIL SITE GRADING & UTILITY

ARCHITECTURAL

COVER	COVER SHEET
A00.00	INDEX, CODES & PROJECT INFORMATION
A00.01	GRAPHIC SYMBOLS
A00.30	DOOR SCHEDULE
A00.31	DOOR DETAILS
A00.40	GENERAL DETAILS
A00.50A	ARCHITECTURAL SITE PLAN-EXISTING
A00.50B	ARCHITECTURAL SITE PLAN-PROPOSED
A01.01	DEMOLITION PLAN
A02.01A	CONSTRUCTION PLAN
A02.01B	CONSTRUCTION PLAN
A03.01A	EXTERIOR ELEVATIONS
A03.01B	EXTERIOR ELEVATIONS
A04.01A	REFLECTED CEILING PLAN
A04.01B	REFLECTED CEILING PLAN
A05.01	BUILDING SECTION
A06.01	FINISH PLAN
A12.01	WALL TYPES & DETAILS

PLUMBING

P-001	ELECTRICAL SYMBOLS, LEGEND & GENERAL NOTES
P-201	PLUMBING FLOOR PLAN
P-601	PLUMBING DETAILS
P-701	PLUMBING RISERS

MECHANICAL

M-001	ELECTRICAL SYMBOLS, LEGEND & GENERAL NOTES
M-201	MECHANICAL PLAN
M-501	MECHANICAL SCHEDULES AND DETAILS

ELECTRICAL

E-001	ELECTRICAL SYMBOLS, LEGEND
ED-101	ELECTRICAL DEMOLITION SITE PLAN
E-101	ELECTRICAL RENOVATION SITE PLAN
E-201	POWER AND SYSTEMS FLOOR PLAN
E-202	LIGHTING FLOOR PLAN
E-501	ELECTRICAL DIAGRAMS
E-601	ELECTRICAL DETAILS
E-701	ELECTRICAL SCHEDULES

STRUCTURAL

S001	ABBREVIATIONS, SYMBOLS, AND SHEET INDEX
S002	STRUCTURAL GENERAL NOTES
S201A	FOUNDATION PLAN
S201B	FOUNDATION PLAN
S300	SECTIONS AND DETAILS
S301	SECTIONS AND DETAILS



945 N. PENNSYLVANIA AVENUE
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STATE OF FLORIDA
ALBERT J. COOPER, R.A.
Architect • Seal/Signature
AA-C001315
AR-0010460

Project Documents for:



Project:
BITHLO VEHICLE MAINTENANCE BUILDING

18715 OLD CHENEY HIGHWAY
ORLANDO, FL 32820

Issue	Date & Issue Description	Drawn By	Checked By
	11.09.16	60% CD SET	JS KA
	01.24.17	90% CD SET	JS KA
	03.08.17	PERMIT ISSUE SET	JS KA
	09.26.17	CODE COMMENTS	JS KA
	11.10.17	CONSTRUCTION SET	JS KA

SPACE PLANNING

INTERIOR DESIGN

PLANNING

Client Information

ORANGE COUNTY CAPITAL PROJECTS DIVISION
400 E SOUTH STREET
• ORLANDO, FL 32801

Project Number	Issue Date
16053	11/10/2017
Drawn By	Project Status
JS	CONSTRUCTION SET
Checked By	Scale
KA	NTS

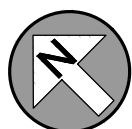
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Consultant • Seal/Signature

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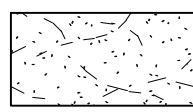
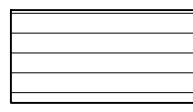
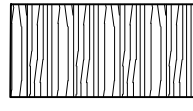
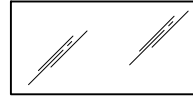
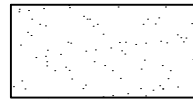
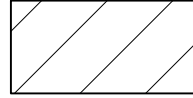
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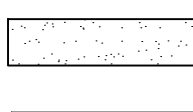
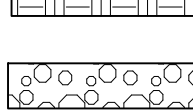
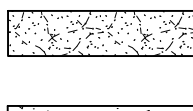
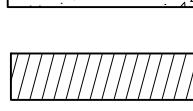
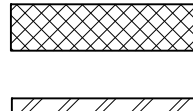
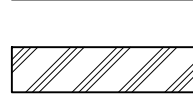
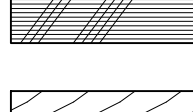
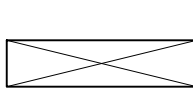
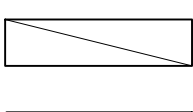
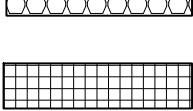
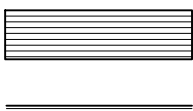

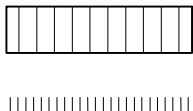
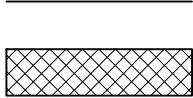









GRAPHIC SYMBOLS (CONT.)

ELEVATION INDICATIONS

	STONE
	BRICK/CONCRETE BLOCK
	FINISHED WOOD
	GLASS
	QUARTZ
	RESIN

SECTION INDICATIONS

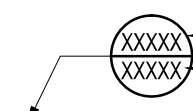
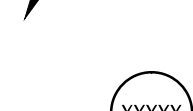

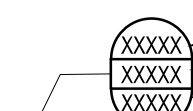



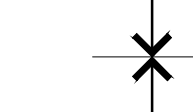


	SAND OR GROUT
	EARTH OR NATURAL GROUND
	POROUS FILL (GRAVEL)
	STONE
	CONCRETE
	BRICK
	CONCRETE MASONRY UNIT
	METAL
	NON-FERROUS ALUMINUM
	PLYWOOD
	WOOD (FINISH)
	WOOD (CONTINUOUS)
	WOOD (BLOCKING) INTERRUPTED MEMBER
	INSULATION (LOOSE OR BATT)
	INSULATION (RIGID)
	GLASS (LARGE SCALE)
	GYPSUM BOARD
	PLASTER WITH LATH
	ACOUSTICAL TILE
	CARPET
	FABRIC WRAPPED PANEL

GRAPHIC SYMBOLS (CONT.)

REFLECTED CEILING


































































	ACOUSTICAL CEILING AND GRID
	MAIN RUNNER
	GYPSUM BOARD SOFFIT
	EXISTING TO BE REMOVED
	SURFACE MOUNTED FLUORESCENT LIGHT FIXTURE
	FLUORESCENT STRIP FIXTURE
	FLUORESCENT PENDANT FIXTURE
	CEILING HEIGHT CHANGE
	DIMENSION OF CEILING ABOVE FINISH FLOOR
	CEILING FINISH
	CEILING MOUNTED EXIT SIGN, SHOWS QUANTITY OF FACE(S) AND DIRECTION OF ARROW(S)
	SMOKE DETECTOR
	STROBE
	FIRE SPRINKLER
	SPEAKER
	ACCESS DOOR
	SECURITY CAMERA
	THERMOSTAT
	LIGHT SWITCH
	DIMMER SWITCH
	RETURN AIR
	SUPPLY AIR
	LINEAR DIFFUSER
	Denotes EXISTING TO REMAIN
	Denotes EXISTING, RELOCATED FIXTURE

FINISH

	WALL FINISH
	BASE FINISH
	EXTENT OF FINISH
	WALL FINISH
	WAINSCOT FINISH
	BASE FINISH
	EXTENT OF FINISH
	SPECIAL FINISH
	FLOOR FINISH
	CHANGE IN FLOOR FINISH

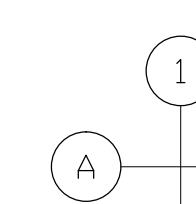
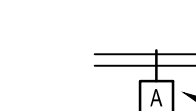
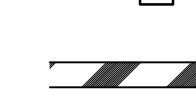
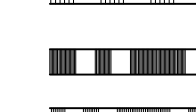
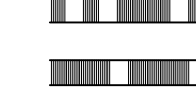
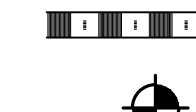

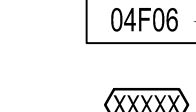
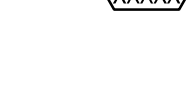
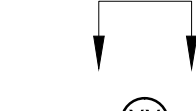












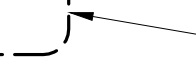


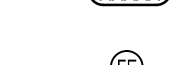
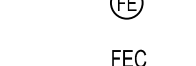

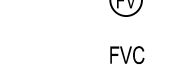
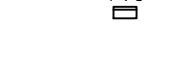












GRAPHIC SYMBOLS (CONT.)

POWER & COMMUNICATION

	WALL MOUNTED DUPLEX
	WALL MOUNTED FOURPLEX
	QUADRAPLEX ISOLATED
	WALL MOUNTED SEPARATE DUPLEX
	WALL MOUNTED DEDICATED DUPLEX
	WALL MOUNTED DEDICATED FOURPLEX
	WALL MOUNTED HALF DEDICATED FOURPLEX
	WALL MOUNTED SPECIAL OUTLET
	WALL MOUNTED TELEPHONE RECEPTACLE
	WALL MOUNTED TELE/DATA RECEPTACLE
	WALL MOUNTED 1 TELE/2 DATA RECEPTACLE - QUAD FACEPLATE TERMINAL IN SINGLE-GANG, DUPLEX J-BOX.
	WALL MOUNTED DATA RECEPTACLE
	WALL MOUNTED A/V RECEPTACLE
	WALL MOUNTED TV/CAMERA RECEPTACLE - 3" SQUARE.
	FLUSH FLOOR MOUNTED TELEPHONE RECEPTACLE
	FLUSH FLOOR MOUNTED TELE/DATA RECEPTACLE
	FLUSH FLOOR MOUNTED 1 TELE/2 DATA RECEPTACLE
	FLUSH FLOOR MOUNTED DATA RECEPTACLE
	FLUSH FLOOR MOUNTED DUPLEX
	FLUSH FLOOR MOUNTED FOURPLEX
	FLUSH FLOOR MOUNTED DEDICATED DUPLEX
	FLUSH FLOOR MOUNTED DEDICATED FOURPLEX
	FLUSH FLOOR MOUNTED SEPARATE DUPLEX
	FLUSH FLOOR MOUNTED SEPARATE FOURPLEX
	FLUSH FLOOR MOUNTED DUPLEX WITH TELE/DATA RECEPTACLE
	FLUSH FLOOR MOUNTED DEDICATED DUPLEX WITH TELE/DATA RECEPTACLE
	FLUSH FLOOR MOUNTED SEPARATE DUPLEX WITH TELE/DATA RECEPTACLE
	FLUSH FLOOR MOUNTED A/V RECEPTACLE
	FLUSH FLOOR MOUNTED TV RECEPTACLE
	POKE-THRU TEL. MONUMENT
	POKE-THRU TELE/DATA MONUMENT
	POKE-THRU DATA POWER MONUMENT
	POKE-THRU DUPLEX POWER MONUMENT
	POKE-THRU FOURPLEX POWER MONUMENT
	POKE-THRU DEDICATED DUPLEX POWER MONUMENT
	POKE-THRU DEDICATED FOURPLEX POWER MONUMENT
	POKE-THRU SEPARATE DUPLEX POWER MONUMENT
	POKE-THRU SEPARATE FOURPLEX POWER MONUMENT
	POKE-THRU A/V MONUMENT
	POKE-THRU TV MONUMENT
	FLUSH WALL MOUNTED POWER JUNCTION BOX WITH HARDWIRE CONNECTION
	FLOOR POKE-THRU JUNCTION BOX WITH HARDWIRE CONNECTION
	COMBINATION FLOOR POKE-THRU JUNCTION BOX WITH HARDWIRE CONNECTION
	CARD READER
	INTERCOM DEVICE
	DOOR RELEASE BUTTON
	DOOR BELL PUSH BUTTON TO READ "PUSH TO EXIT" PER NFPA 7.2.1.6.2 (4) MONITOR
	PHONE DIRECTORY
	ELECTROMAGNETIC DOOR HOLD OPEN
	ELECTRIC LOCKSET (SEE HARDWARE SCHEDULE)
	MAGNETIC LOCK (SEE HARDWARE SCHEDULE)
	SECURITY SYSTEM DOOR MONITOR CONTACT (SEE HARDWARE SCHEDULE)
	INTRUSION ALARM (SEE SECURITY DRAWINGS)
	KEY SWITCH (SEE SECURITY DRAWINGS)
	CONTROL PANEL
	491 EMERGENCY BREAK GLASS STATION; SECURITY DOOR CONTROLS
	WALL MOUNTED SIMON BOARD, POWER & DATA TO BE COORDINATED WITH VENDOR
	EQUIPMENT ITEM - SEE SCHEDULE
	FIRE WARDEN STATION
	FIRE ALARM PULL BOX
	SECURITY MONITOR
	A/V FOR PROJECTION SYSTEM
	CAMERA REFER TO REFLECTED CEILING PLAN FOR LOCATION
	RECESSED POWER, DATA & COAX OUTLET, SEE PLAN FOR HT
	GROUND FAULT INTERCEPTOR

GRAPHIC SYMBOLS

CONSTRUCTION

	COLUMN GRID
	NEW PARTITION
	REFERENCE TO PARTITION TYPE
	1 HR. RATED PARTITION
	1 1/2 HR. RATED PARTITION
	2 HR. RATED PARTITION
	3 HR. RATED PARTITION
	4 HR. RATED PARTITION
	SMOKE PARTITION
	ELEVATION DATUM POINT
	OFFICE
	ROOM NAME
	ROOM NUMBER
	DOOR NUMBER (WITH SCHEDULE)
	"N" PREFIX DENOTES DOOR AT NON-DT OPTION ONLY
	ALIGN
	ALIGN WITH ESTABLISHED SURFACES
	SHEET NOTE
	REVISION REFERENCE
	EXTERIOR ELEVATION INDICATION
	ROW ON ELEVATION SHEET WHERE SHOWN
	DIRECTION OF ELEVATION
	SHEET WHERE SHOWN
	INTERIOR ELEVATION INDICATION
	LOCATION ON ROW WHERE SHOWN
	DIRECTION OF ELEVATION
	ROW ON ELEVATION SHEET WHERE SHOWN
	SHEET WHERE SHOWN
	DESCRIPTION OF SIMILAR OR OPPOSITE
	FLOOR LEVEL AND AREA OR PHASE
	AREA TO BE DETAILED
	DETAIL NUMBER
	SHEET WHERE SHOWN
	DESCRIPTION OF SIMILAR OR OPPOSITE
	FLOOR LEVEL AND AREA OR PHASE
	AREA TO BE DETAILED
	MILLWORK
	MILLWORK SCHEDULE TAG (IF USED)
	FIRE EXTINGUISHER WITHOUT CABINET
	FIRE EXTINGUISHER CABINET
	FIRE VALVE WITHOUT CABINET
	FIRE VALVE CABINET



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AA-C001315
AR-0010460

Project Documents for:



Project:
BITHLO VEHICLE MAINTENANCE BUILDING
18715 OLD CHENEY HIGHWAY
ORLANDO, FL 32820

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	09.26.17	CODE COMMENTS	JS KA
	11.10.17	CONSTRUCTION SET	JS KA

Client Information

ORANGE COUNTY CAPITAL PROJECTS DIVISION
400 E SOUTH STREET
ORLANDO, FL 32801

Project Number	Issue Date
16053	11/10/2017
Drawn By	Project Status
JS	CONSTRUCTION SET
Checked By	Scale
KA	NTS

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Sheet Title:

GRAPHIC SYMBOLS

A00.01

DOOR, FRAME AND HARDWARE GROUP SCHEDULE

SCHEDULE - DOOR AND FRAME																	
DOOR ASSEMBLY									FRAME ASSEMBLY					FIRE RATING	HARDWARE GROUP	HARDWARE FUNCTION	REMARKS
NO.	LOCATION	TYPE	WIDTH	HEIGHT	THICKNESS	MATERIAL	FINISH		MATERIAL	FINISH	HEAD DETAIL	JAMB DETAIL	TYPE	SILL DETAIL			
107A	TOOL MAINTENANCE	C	(2) 3'-0"	7'-0"	1 3/4"	HOLLOW MTL	PAINT		HOLLOW MTL	PAINT	04/A00.31	05/A00.31	V	ALUMINUM	-	1	1
107B	TOOL MAINTENANCE	C	(2) 3'-0"	7'-0"	1 3/4"	HOLLOW MTL	PAINT		HOLLOW MTL	PAINT	04/A00.31	05/A00.31	III	ALUMINUM	-	1	1
107C	TOOL MAINTENANCE	A	3'-0"	7'-0"	1 3/4"	HOLLOW MTL	PAINT		HOLLOW MTL	PAINT	07/A00.31	08/A00.31	I	-	-	2	1
108A	GARAGE	C	(2) 3'-0"	7'-0"	1 3/4"	HOLLOW MTL	PAINT		HOLLOW MTL	PAINT	04/A00.31	05/A00.31	III	ALUMINUM	-	1	1
108B	GARAGE	D	16'-0"	12'-8"	1 3/4"	STEEL	FACTORY PAINT		STEEL	FATORY PAINT	01/A00.31	02/A00.31	N/A	-	-	-	1

HARDWARE GROUPS

SET 01

- LOCKSET (KEYED): MARKS 195 SERIES WITH 1/C CORE PREP CYLINDRICAL LOCKSET, LEVEL, 26D FINISH
- FULL MORTISE BUTT STAINLESS HINGES, STANLEY CB 1900 4 1/2"x4 1/2" (3)
- DOOR STOP: FLOOR MOUNTED - DOME, ROCKWOOD 440 626 FINISH
- DOOR CLOSER: LCN - 4040XP, 626 FINISH @ PUSH SIDE
- (2) 12" KICKPLATE STAINLESS (BOTH SIDES): IVES 8400, US26D FINISH
- WEATHER STRIPPING:

SET 02

- LOCKSET (PASSAGE): MARKS 195 SERIES, LEVER, 26D FINISH
- FULL MORTISE BUTT STAINLESS HINGES, STANLEY CB 1900 4 1/2"x4 1/2" (3)
- DOOR STOP: FLOOR MOUNTED - DOME, ROCKWOOD 440 626 FINISH
- DOOR CLOSER: LCN - 4040XP, 626 FINISH @ PUSH SIDE
- (2) 12" KICKPLATE STAINLESS (BOTH SIDES): IVES 8400, US26D FINISH

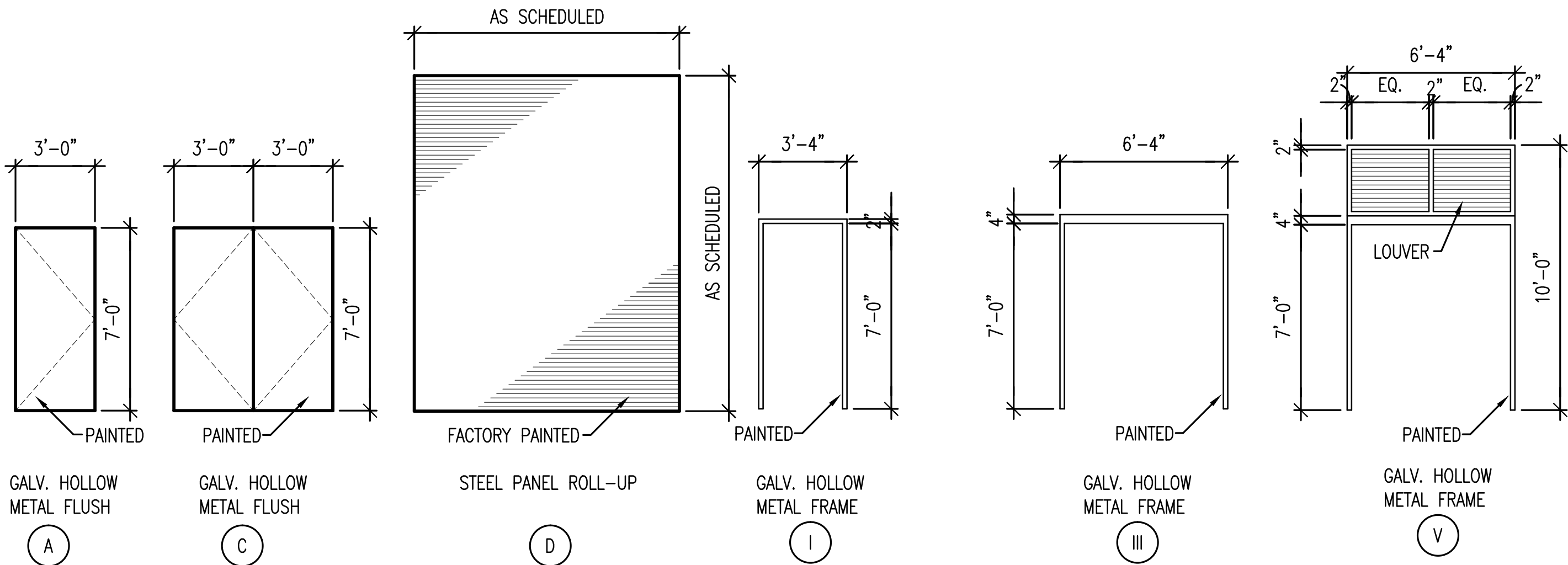
SHEET NOTES

1. NEW DOOR AND FRAME SHALL BE PAINTED COLOR P-1. REFER TO FINISH SCHEDULE ON SHEET A06.01.

GENERAL NOTES

- A COORDINATE ALL HARDWARE WITH DOOR SWING. CLOSERS TO BE ON INTERIOR OF ROOMS. DOOR STOP SHALL BE FLOOR MOUNTED AND INSTALLED ON INTERIOR OF ROOMS, U.N.O.
B ALL HARDWARE FINISH SHALL BE: TBD.
C ALL EXISTING DOORS AND FRAMES TO BE PAINTED, REFER TO FINISH SCHEDULE FOR COLOR.
D ALL DOOR HARDWARE SHALL BE LEVER TYPE MEETING REQUIREMENTS OF ADA.
E CONTRACTOR SHALL COORDINATE ALL HARDWARE KEYING WITH THE OWNER AND OBTAIN OWNER'S APPROVAL PRIOR TO PLACING HARDWARE ORDER.
F REFER TO SPECIFICATIONS FOR HARDWARE FINISH.
G AT DOORS WHERE GLASS IS USED THE GLASS SHALL BE SAFETY GLAZED (TEMPERED) AND TESTED IN ACCORDANCE WITH ANSI-Z97.
H PANIC HARDWARE SHALL BE PUSH-PAD TYPE TO EGRESS DIRECTION AND SHALL NOT REQUIRE MORE THAN ONE OPERATION TO UNLATCH. ALL EGRESS DOORS SHALL BE OPERABLE WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE.
ALL DOORS TO HAVE MINIMUM 32" CLEAR OPENING WIDTH IN ACCORDANCE W/ SECTION 1008.1.1 OF THE IBC.
J PROVIDE EACH ASSEMBLY WITH ALL SUPPORTS, EQUIPMENT, AND MECHANISMS NECESSARY FOR A COMPLETE OPERABLE INSTALLATION. INSTALL WEATHERSTRIPPING AFTER DOOR IS INSTALLED AND ADJUSTED.
K PROVIDE ALL OTHER MATERIALS SUCH AS BRACKETS, FASTENERS, BACK-UP PLATES AND OTHER ACCESSORIES NOT SPECIFICALLY DESCRIBED BUT REQUIRED FOR A COMPLETE OPERABLE FINISH HARDWARE INSTALLATION.
L EXTERIOR DOOR THRESHOLD SHALL NOT EXCEED ONE HALF INCHES (1/2") IN HEIGHT AND SHALL HAVE A 1:2 BEVEL.
M ALL DOOR HARDWARE, AS APPLICABLE, SHALL COMPLY WITH THE REQUIREMENTS OF NFPA 101, SECTION 7.2.1.5.4.

DOOR TYPES



ADC

ARCHITECTURAL DESIGN COLLABORATIVE

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• SPACE PLANNING

• INTERIOR DESIGN

• PLANNING

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ORANGE COUNTY CAPITAL PROJECTS DIVISION
400 E SOUTH STREET
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ARCHITECTURE

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KA	NA

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Sheet Title:

DOOR, FRAME & HARDWARE

A00.30

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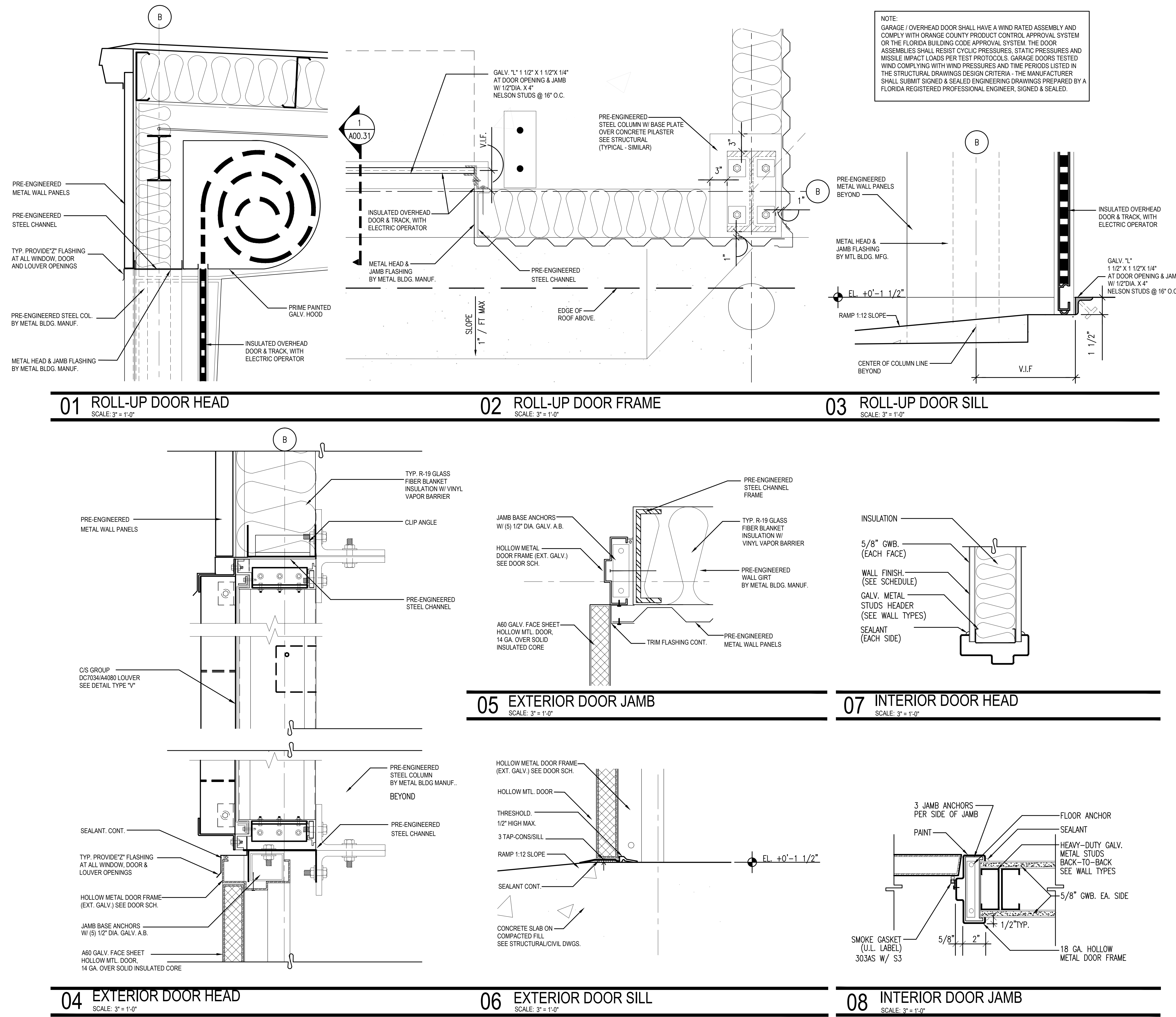
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KA	NA

File Name
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Sheet Title:
DOOR DETAILS



ACCESSIBILITY NOTES:

1. FOR RESTROOMS ACCESSIBLE TO THE PUBLIC, THE WALLS AND FLOORS OF TOILET, BATHING AND SHOWER ROOMS SHALL HAVE A SMOOTH, HARD, NONABSORBENT SURFACE. THE INTERSECTIONS OF SUCH FLOORS WITH WALLS SHALL HAVE A SMOOTH, HARD, NONABSORBENT VERTICAL BASE THAT EXTENDS UPWARD AT LEAST 4 INCHES. WALLS AND PARTITIONS WITHIN CLOSET CLOSETS SHALL HAVE A SMOOTH, HARD, NONABSORBENT SURFACE TO A HEIGHT OF 4 FEET ABOVE THE FLOOR, AND EXCEPT FOR STRUCTURAL ELEMENTS, THE MATERIALS USED IN SUCH WALLS SHALL BE OF A TYPE THAT IS NOT ADVERSELY AFFECTED BY MOISTURE. ACCESSORIES SUCH AS GRAB BARS, TOWEL BARS, PAPER DISPENSERS AND SOAP DISHES, PROVIDED ON OR WITHIN WALLS, SHALL BE INSTALLED AND SEALED TO PROTECT STRUCTURAL ELEMENTS FROM MOISTURE.

2. ALL DIMENSIONS ARE ABOVE FINISHED FLOOR (A.F.F.). DIMENSIONS THAT ARE NOT STATED AS "MAXIMUM" OR "MINIMUM" ARE ABSOLUTE.

3. ALL DIMENSIONS ARE TO FINISH SURFACES AND SHALL BE CONSIDERED "CLEAR" DIMENSIONS. THE ACCESSIBLE 5 FOOT TURNING CIRCLE IS A "CLEAR" DIMENSION CONTINUOUS FROM THE FLOOR AND UP THE WALLS. THE FINISHED BASE AND/OR TRIM MATERIALS SHALL NOT DIMINISH THE REQUIRED 5 FOOT DIMENSION AT THE FLOOR OR THE WALLS OF THE ROOM.

4. IF TOILETS ARE UPGRADED FOR COMPLIANCE, REFER TO SHEET A00.01 FOR ADDITIONAL DETAILS, NOTES AND THE ACCESSORIES AND FIXTURE SCHEDULES.

5. DETAILS SUPERSEDE PLANS, IN THE EVENT OF CONFLICTING INFORMATION GO TO CONTACT ARCHITECT IMMEDIATELY.

6. FLOOR SURFACES SHALL BE SLIP-RESISTANT.

7. EVERY CORRIDOR AND AISLE SERVING AN OCCUPANT LOAD OF 10 OR MORE SHALL BE NOT LESS THAN 44" IN WIDTH.

8. ABRUPT CHANGES IN LEVEL ALONG ANY ACCESSIBLE ROUTE SHALL NOT EXCEED 1/2" IN HEIGHT. LEVEL CHANGES NOT EXCEEDING 1/4" MAY BE VERTICAL. BEVEL OTHERS WITH A SLOPE NO GREATER THAN 1:2.

9. LATCHING AND LOCKING DOORS THAT ARE HAND ACTIVATED AND WHICH ARE IN A PATH OF TRAVEL SHALL BE OPERABLE WITH A SINGLE EFFORT BY LEVER TYPE HARDWARE, PANIC BARS, PUSH-PULL ACTIVATING BARS, OR OTHER HARDWARE DESIGNED TO PROVIDE PASSAGE WITHOUT REQUIRING THE ABILITY TO GRASP THE OPENING HARDWARE. MOUNT DOOR OPENING HARDWARE BETWEEN 30" AND 44" ABOVE FLOOR FINISH.

10. MAXIMUM PULL OR PUSH EFFORT TO OPERATE DOORS SHALL NOT EXCEED 8.5 POUNDS FOR EXTERIOR DOORS AND 5 POUNDS FOR INTERIOR DOORS, MEASURED AT RIGHT ANGLES TO HINGED DOORS AND AT CENTER PLANE OF SLIDING OR FOLDING DOORS. CORRESPONDING DEVICES OR AUTOMATIC DOOR OPERATORS MAY BE UTILIZED TO MEET THE ABOVE STANDARDS. MAXIMUM EFFORT TO OPERATE REQUIRED FIRE DOORS MAY BE INCREASED NOT TO EXCEED 15 POUNDS.

11. THE BOTTOM 10" OF ALL DOORS (EXCEPT SLIDING AND AUTOMATIC) SHALL HAVE A SMOOTH UNINTERRUPTED SURFACE TO ALLOW THE DOOR TO BE OPENED BY A WHEELCHAIR FOOTREST WITHOUT CREATING A TRAP OR HAZARDOUS CONDITION. PROVIDE A 10" HIGH SMOOTH PANEL ON THE PUSH SIDE OF NARROW FRAME DOORS.

12. EVERY REQUIRED ENTRANCE OR PASSAGE DOORWAY SHALL BE NOT LESS THAN 3' IN WIDTH AND NOT LESS THAN 6'-8" IN HEIGHT. DOORS SHALL BE CAPABLE OF OPENING AT LEAST 90 DEGREES AND SHALL BE SO MOUNTED THAT THE CLEAR WIDTH OF THE DOORWAY IS NOT LESS THAN 32".

13. WHERE A PAIR OF DOORS IS UTILIZED, AT LEAST ONE OF THE DOORS SHALL PROVIDE A CLEAR, UNOBSTRUCTED OPENING WIDTH OF 32" WITH THE LEAF POSITIONED AT AN ANGLE OF 90 DEGREES FROM ITS CLOSED POSITION.

14. IDENTIFY ACCESSIBLE ENTRANCES WITH AT LEAST ONE STANDARD SIGN AND WITH ADDITIONAL DIRECTIONAL SIGNS, AS REQUIRED, VISIBLE FROM APPROACHING PEDESTRIAN WAYS.

15. THE FLOOR OR LANDING ON EACH SIDE OF AN ENTRANCE OR PASSAGE DOOR SHALL BE LEVEL AND CLEAR. THE LEVEL AND CLEAR AREA SHALL HAVE A LENGTH IN THE DIRECTION OF DOOR SWING OF AT LEAST 60" AND THE LENGTH OPPOSITE THE DIRECTION OF DOOR SWING OF 44" AS MEASURED AT RIGHT ANGLES TO THE PLANE OF THE DOOR IN ITS CLOSED POSITION. (REFER TO A.D.A. DRAWING FOR CLEARANCES BASED ON DIFFERENT APPROACHES)

16. FLOORS OR LANDINGS SHALL BE NOT MORE THAN 1/2" LOWER THAN THE THRESHOLD OF THE DOORWAY. CHANGE IN LEVEL BETWEEN 1/4" AND 1/2" SHALL BE BEVELED WITH A SLOPE NO GREATER THAN 1:2.

17. TO ALERT THE VISUALLY IMPAIRED, MARK THE UPPER APPROACH AND THE LOWER TREAD OF EACH INTERIOR STAIR WITH A STRIP OF CLEARLY CONTRASTING COLOR AT LEAST 2" WIDE, PLACED PARALLEL TO AND NOT MORE THAN 1" FROM THE NOSE OF THE STEP OR LANDING. THE STRIP SHALL BE OF A MATERIAL THAT IS SLIP RESISTANT AS THE OTHER TREADS OF THE STAIR.

18. CENTER ELECTRICAL RECEPTACLE OUTLETS NOT LESS THAN 15" ABOVE THE FLOOR OR WORKING PLATFORM.



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	11.09.16	60% CD SET	JS KA
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	03.08.17	PERMIT ISSUE SET	JS KA
	09.26.17	CODE COMMENTS	JS KA
	11.10.17	CONSTRUCTION SET	JS KA

• SPACE PLANNING

• INTERIOR DESIGN

• PLANNING

Client Information

ORANGE COUNTY CAPITAL PROJECTS DIVISION
400 E SOUTH STREET
ORLANDO, FL 32801

Project Number	Issue Date
16053	11/10/2017
Drawn By	Project Status
JS	CONSTRUCTION SET
Checked By	Scale
KA	AS INDICATED

File Name

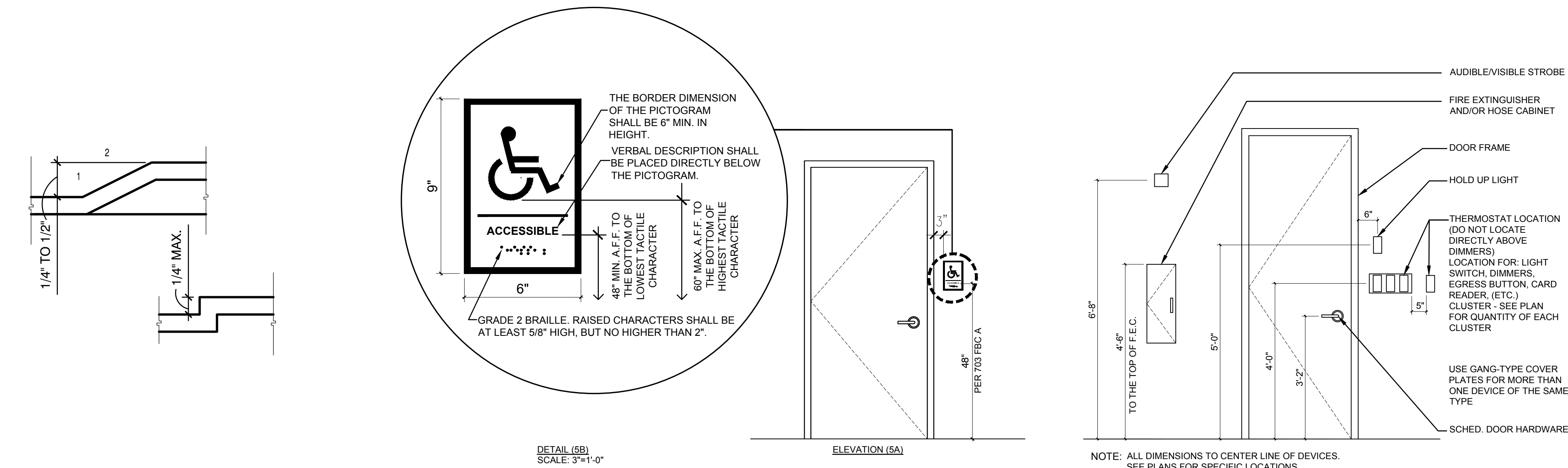
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Consultant • Seal/Signature

Sheet Title:

GENERAL DETAILS

A00.40



THRESHOLDS
SCALE: 1'-0" = 1'-0"

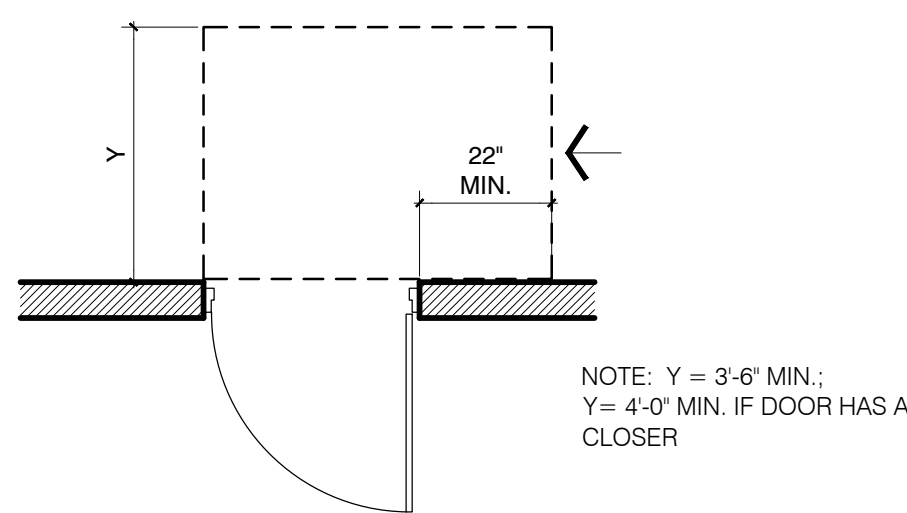
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SIGNAGE HEIGHT DETAIL
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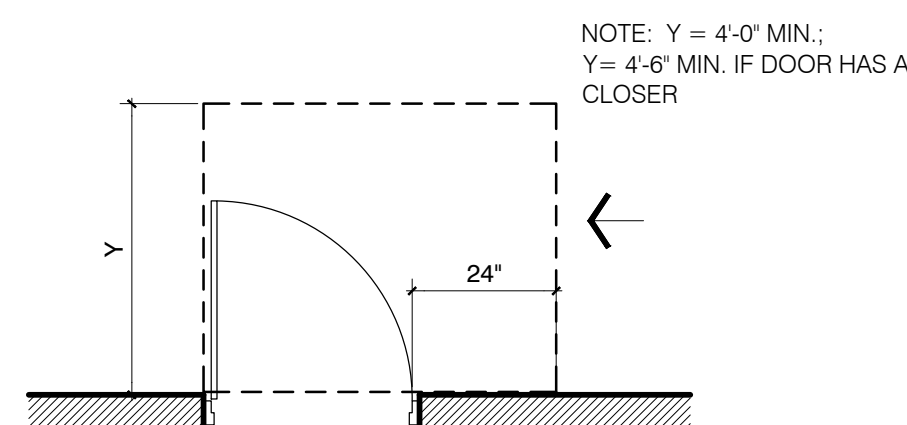
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TYPICAL MOUNTING HEIGHT DETAIL
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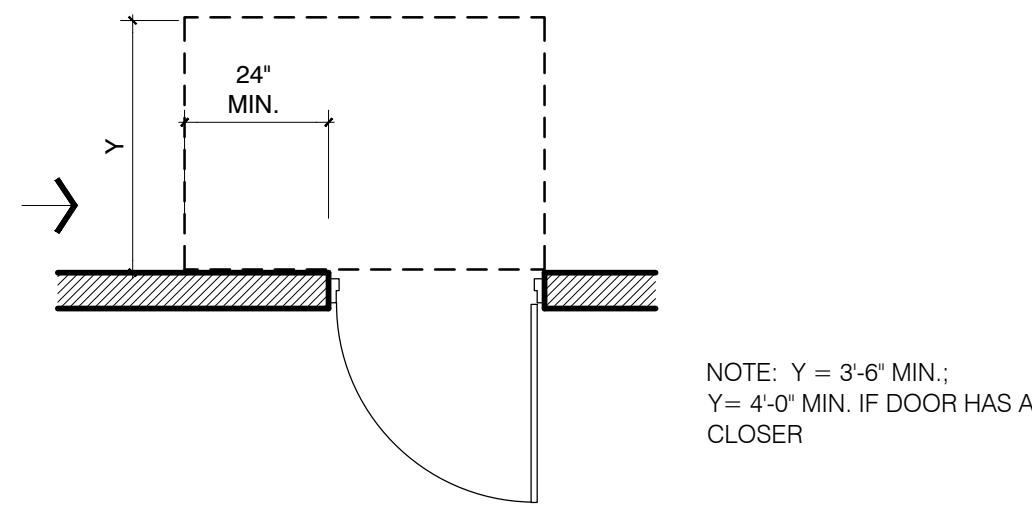
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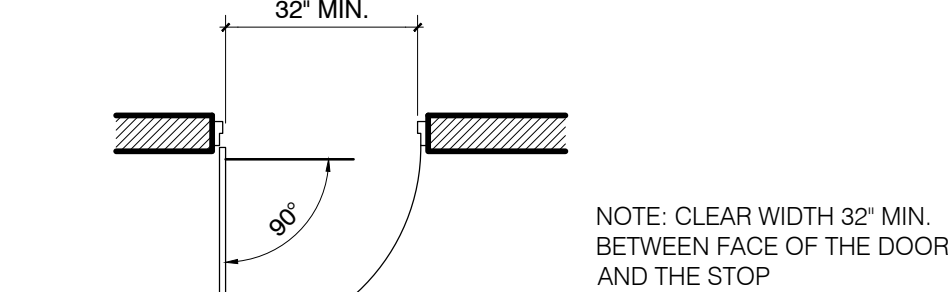
HINGE APPROACH, PUSH SIDE



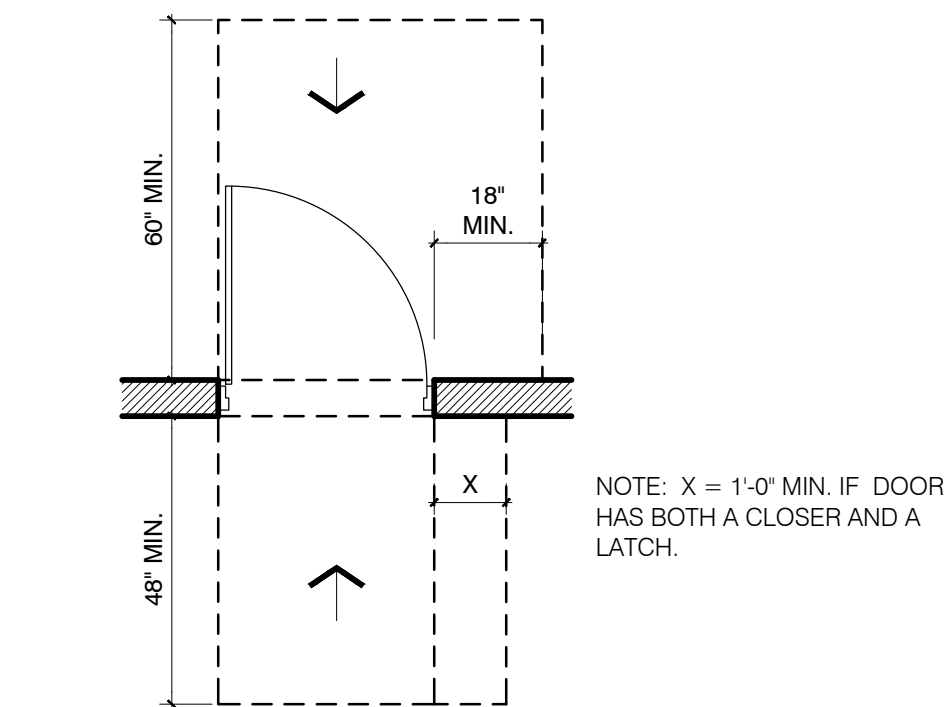
LATCH APPROACH, PULL SIDE



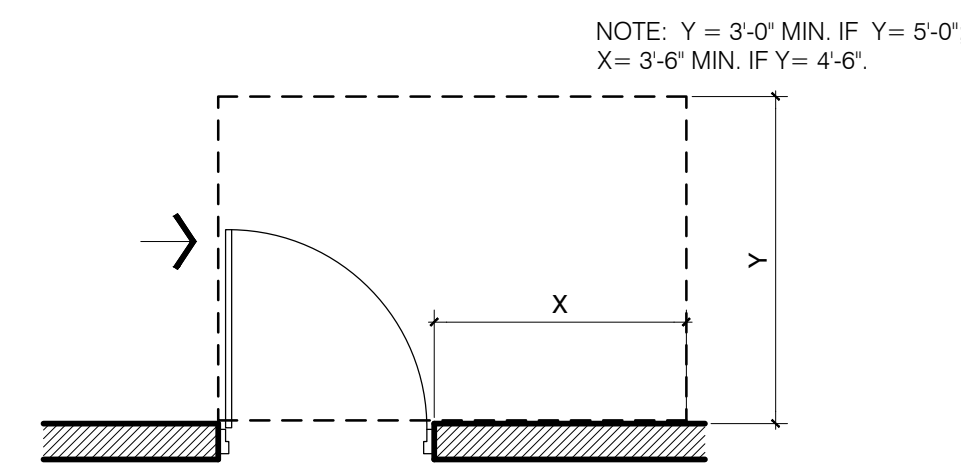
LATCH APPROACH, PUSH SIDE



CLEAR WIDTH OF DOORWAYS



FRONT APPROACH, PULL/PUSH SIDE



HINGE APPROACH, PULL SIDE

TYP. DOOR OR GATE CLEARANCES
SCALE: 3/8" = 1'-0"

4



Project:
BITHLO VEHICLE MAINTENANCE BUILDING
18715 OLD CHENEY HIGHWAY
ORLANDO, FL 32820

Issue	Date & Issue Description	Drawn By	Checked By
11.09.16	60% CD SET	JS	KA
01.24.17	90% CD SET	JS	KA
03.08.17	PERMIT ISSUE SET	JS	KA
09.26.17	CODE COMMENTS	JS	KA
11.10.17	CONSTRUCTION SET	JS	KA

Issue	Date & Issue Description	Drawn By	Checked By
11.09.16	60% CD SET	JS	KA
01.24.17	90% CD SET	JS	KA
03.08.17	PERMIT ISSUE SET	JS	KA
09.26.17	CODE COMMENTS	JS	KA
11.10.17	CONSTRUCTION SET	JS	KA

Client Information
ORANGE COUNTY CAPITAL PROJECTS DIVISION
400 E SOUTH STREET
ORLANDO, FL 32801

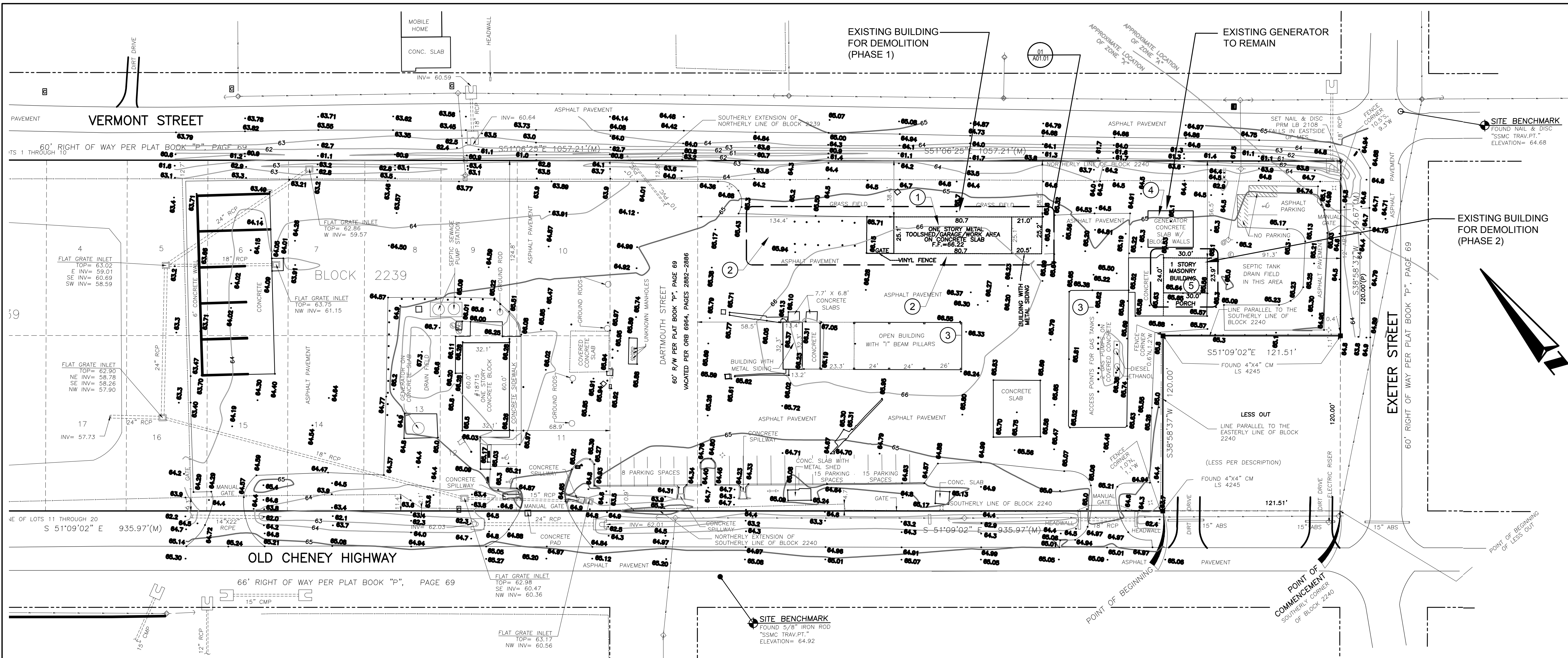
Project Number	Issue Date
16053	11/10/2017
Drawn By	Project Status
JS	CONSTRUCTION SET
Checked By	Scale
KA	NOT TO SCALE

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Consultant • Seal/Signature

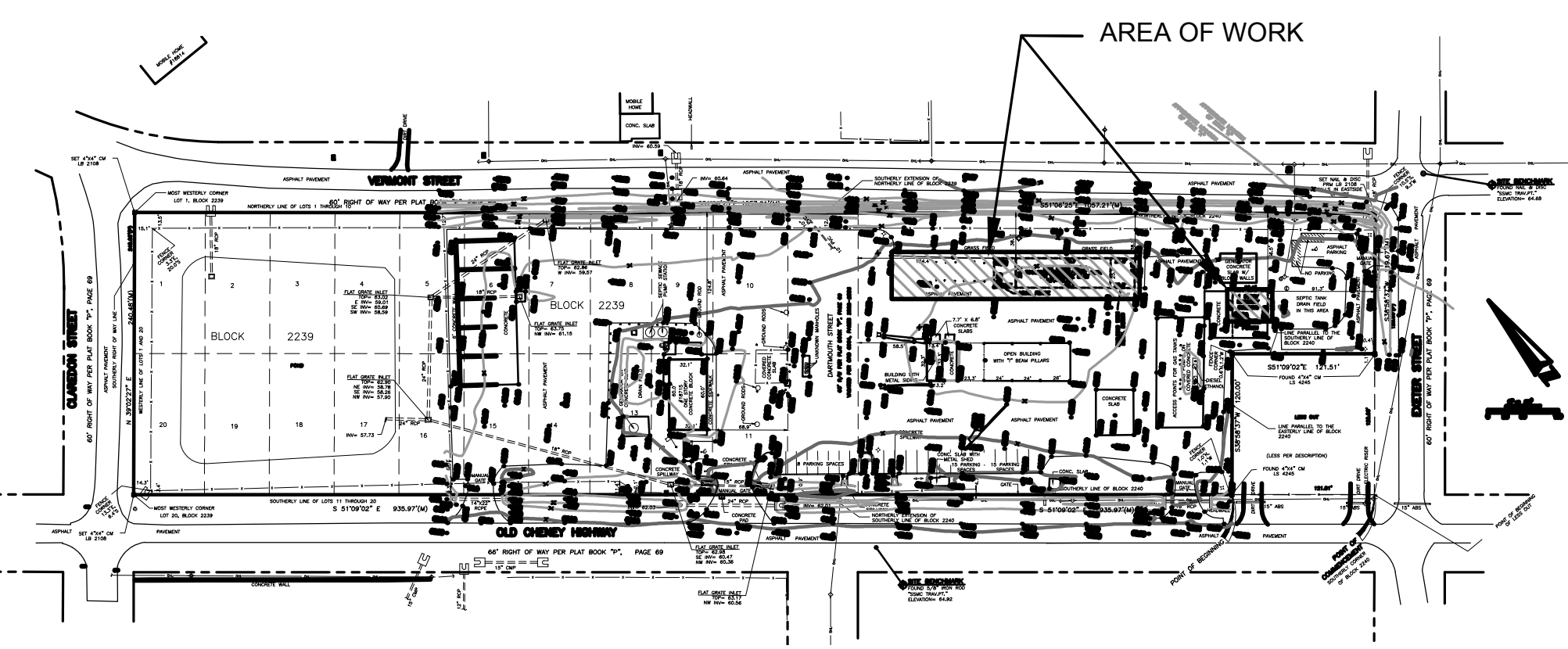
ARCHITECTURAL SITE PLAN
EXISTING

A00.50A



ENLARGED SITE PLAN

SCALE: NOT TO SCALE



OVERALL SITE PLAN

SCALE 1/128" = 1'-0"

KEY NOTES

- DEMO EXISTING PRE-MANUFACTURED METAL BUILDING, FENCING AND TOOL SHED. REFER TO A02.01 A & B, FOR NEW CONSTRUCTION.
- REMOVE EXISTING ASPHALT AND/OR CONCRETE SLAB TO PREPARE FOR NEW PRE-MANUFACTURED METAL BUILDING. SEE CIVIL DRAWINGS FOR MORE INFORMATION.
- EXISTING BUILDING TO REMAIN. NO WORK REQUIRED.
- EXISTING GENERATOR TO REMAIN.
- DEMO EXISTING SMALL MASONRY BUILDING AFTER NEW PRE-MANUFACTURED METAL BUILDING IS CONSTRUCTED AND ALL POWER AND UTILITIES ARE RELOCATED. REFER TO MEP DRAWINGS FOR ADDITIONAL INFORMATION.

BREAKDOWN OF PERVIOUS AND IMPERVIOUS AREAS AND PARKING SPACES:

230,250 SQ.FT.	TOTAL AREA
62,872 SQ.FT.	TOTAL PERVIOUS AREA
167,378 SQ.FT.	TOTAL IMPERVIOUS AREA
0 SQ.FT.	PERVIOUS AREA (INCLUDED IN TOTAL PERVIOUS AREA)
0 SQ.FT.	IMPERVIOUS AREA (INCLUDED IN TOTAL IMPERVIOUS AREA)
6,570 SQ.FT.	OPEN BUILDING/SHED AREA
2,046 SQ.FT.	BUILDING AREA
30,186 SQ.FT.	WET RETENTION POND AREA
23	PARKING
2	DESIGNATED HANDICAP PARKING SPACES

LEGEND AND ABBREVIATIONS

■	= SET PERMANENT REFERENCE MONUMENT, BEING 4" X 4" CONCRETE MONUMENT STAMPED LB2108	⊙	= CLEAN OUT
LS	= LICENSED SURVEYOR	⊕	= COMBINATION UTILITY POLE
○	= SERVICE POLE	—	= GUY WIRE
⊙	= ELECTRIC METER	•	= IRON ROD AS SHOWN
x	= CHAIN LINK FENCE	⊕	= LIGHT POLE
⊕	= HANDICAP PARKING SPACE	⊕	= NAIL & DISC
—OHL—	= OVERHEAD UTILITY LINES	⊕	= POWER POLE
(P)	= PER PLAT	⊕	= SIGN
(M)	= MEASURED	⊕	= MITERED END SECTION (MES)
CM	= CONCRETE MONUMENT	⊕	= POST
⊕	= BURIED ELECTRIC PEDESTAL	⊕	= BACKFLOW PREVENTER
⊕	= DRAINAGE MANHOLE	PB	= PLAT BOOK
⊕	= CLEAN OUT	⊕	= FLAT GRATE INLET
ORB	= OFFICIAL RECORDS BOOK	⊕	= BURIED CABLE TV PEDESTAL
R/W	= RIGHT OF WAY	⊕	= FLAGPOLE
⊕	= PUBLIC TELEPHONE	⊕	= BLACK PLASTIC PIPE
LB	= LICENSED BUSINESS	RCP	= REINFORCED CONCRETE PIPE
PRM	= PERMANENT REFERENCE MONUMENT	CONC.	= CONCRETE
RCP	= REINFORCED CONCRETE PIPE	CMP	= CORRUGATED METAL PIPE
F.F.	= FINISHED FLOOR	ROPE	= REINFORCED CONCRETE PIPE ELLIPTICAL

DESCRIPTION (AS WRITTEN BY SURVEYOR)

All of Block 2239 and Block 2240, BITHLO, according to the plat thereof as recorded in Plat Book P, Page 69 of the Public Records of Orange County, Florida:

LESS: Begin at the Most Southerly corner of said Block 2240, BITHLO as per plat thereof as recorded in Plat Book P, Page 69 said Public Records, run thence Southerly along the Eastern line of said Block 2240, 120 feet, thence run Northerly parallel to the Southerly line of Block 2240, 121.51 feet, thence Southerly parallel to the Eastern line of said Block 2240, 120 feet to the Southerly line of said Block 2240, thence Southerly along said Southerly line of said Block 2240, 121.50 feet to the POINT OF BEGINNING.

Together with the 60 feet right of way of Dartmouth Street lying Southerly of Block 2239 and Northerly of Block 2240 and Southwest of Vermont Street and Northeast of Old Cheney Highway.

SURVEYOR'S REPORT:

- Utility locations if shown hereon are based on field location of markings by Utility Company representatives, surface features and construction plans furnished to the surveyor. Additional sub-surface utilities may exist that have not been field located.
- Easements or rights of way that appear on recorded plans or that have been furnished to the surveyor or by others have been incorporated into this drawing with appropriate notation. Other easements may be discovered by a search of the Public Records.
- Measurement methods used for this survey meet MINIMUM TECHNICAL STANDARDS FOR LAND SURVEYING CH. 61017-6 requirements.
- Not valid without the signature and raised seal of a Florida Licensed Surveyor and Mapper.
- Features shown by symbol as indicated in the legend are not to scale.
- Bearings shown hereon are based on the North right of way line of Old Cheney Highway, being S51°09'02"E, and based on GCS Points 0184 "SMOUSE" and 0187 "SEAN BAILY".
- Based on the National Flood Insurance Program FIRM Map No. 12065C 0315E, dated 12/08/2000, the above described property is within a special flood hazard Zone "X" and "A".
- The electronic image of this map contains horizontal positions for all features shown relative to State Plane Coordinates '83/'80.
- This Survey was performed without benefit of an abstract, title search, title opinion or title insurance. A title search may reveal additional information affecting the Parcel as shown.
- Unless shown, only those visible features in the immediate vicinity of the above described parcel boundary have been located.
- Dimensions are shown in feet and decimals thereof.
- The above described parcel contains 230,250 square feet or 5.463 acres more or less.
- Vertical information shown hereon refers to Orange County Datum, Benchmark No. S-417-045, "X" out top W. and concrete headwall, 15'± S. of edge of pavement of SR 50, 800'± E. of Exeter Street (at creek). Elevation = 64.572 (NGVD29).
- Water is provided to this site by public utilities.
- This site uses a septic tank and drain field.

NOTICE OF LIABILITY:

This survey is certified to those individuals shown on the face thereof. Any other use, benefit or reliance by any other party is strictly prohibited and restricted. Surveyor is responsible only to those certified and hereby disclaims any other liability and hereby restricts the rights of any other individual or firm to use the survey, without express written consent of the surveyor.

Project Documents for:

ORANGE COUNTY FLORIDA

Project:
BITHLO VEHICLE MAINTENANCE BUILDING

18715 OLD CHENEY HIGHWAY
ORLANDO, FL 32820

Issue	Date & Issue Description	Drawn By	Checked By
11.09.16	60% CD SET	JS	KA
01.24.17	90% CD SET	JS	KA
03.08.17	PERMIT ISSUE SET	JS	KA
09.26.17	CODE COMMENTS	JS	KA
11.10.17	CONSTRUCTION SET	JS	KA

Client Information
ORANGE COUNTY CAPITAL PROJECTS DIVISION 400 E SOUTH STREET ORLANDO, FL 32801

Project Number	Issue Date
16053	11/10/2017
Drawn By	Project Status
JS	CONSTRUCTION SET
Checked By	Scale
KA	NOT TO SCALE

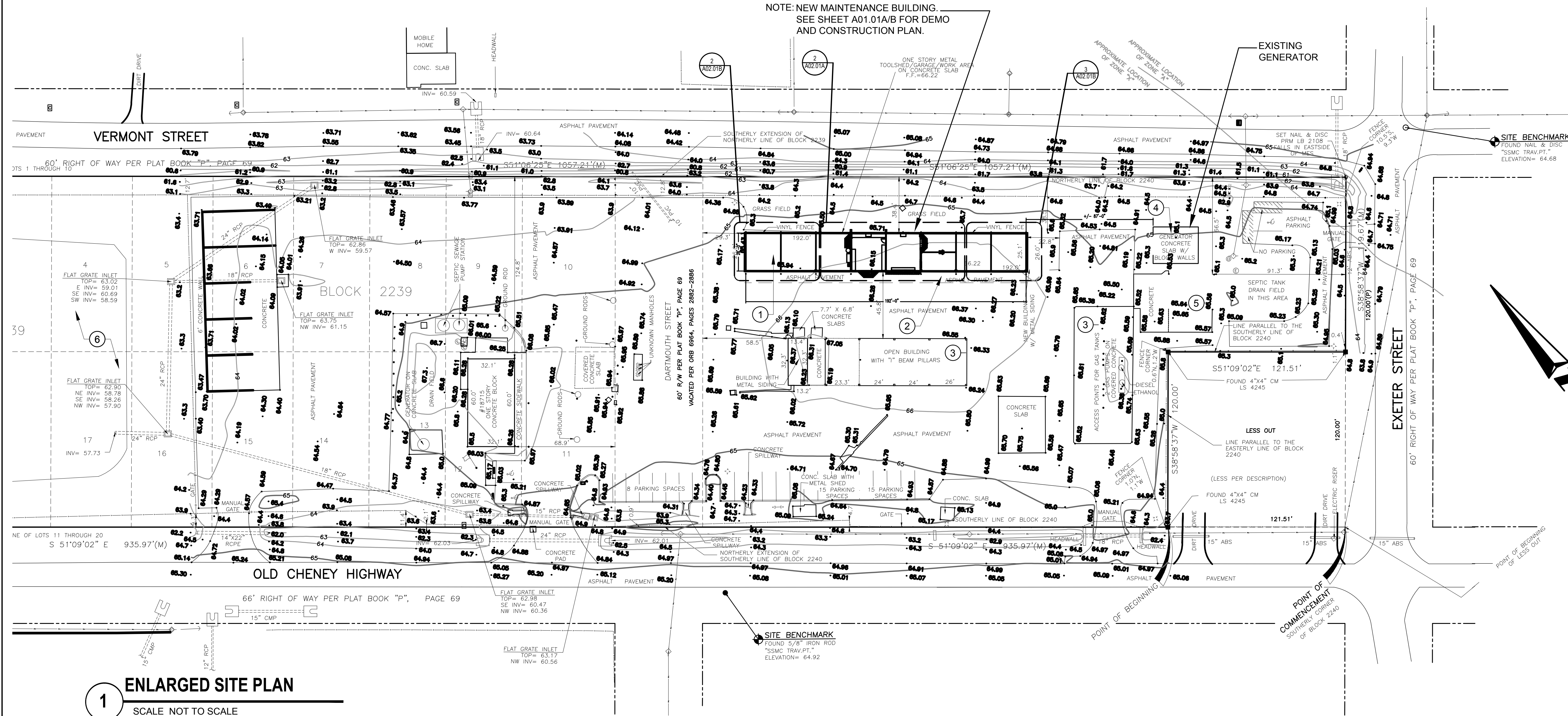
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Consultant • Seal/Signature

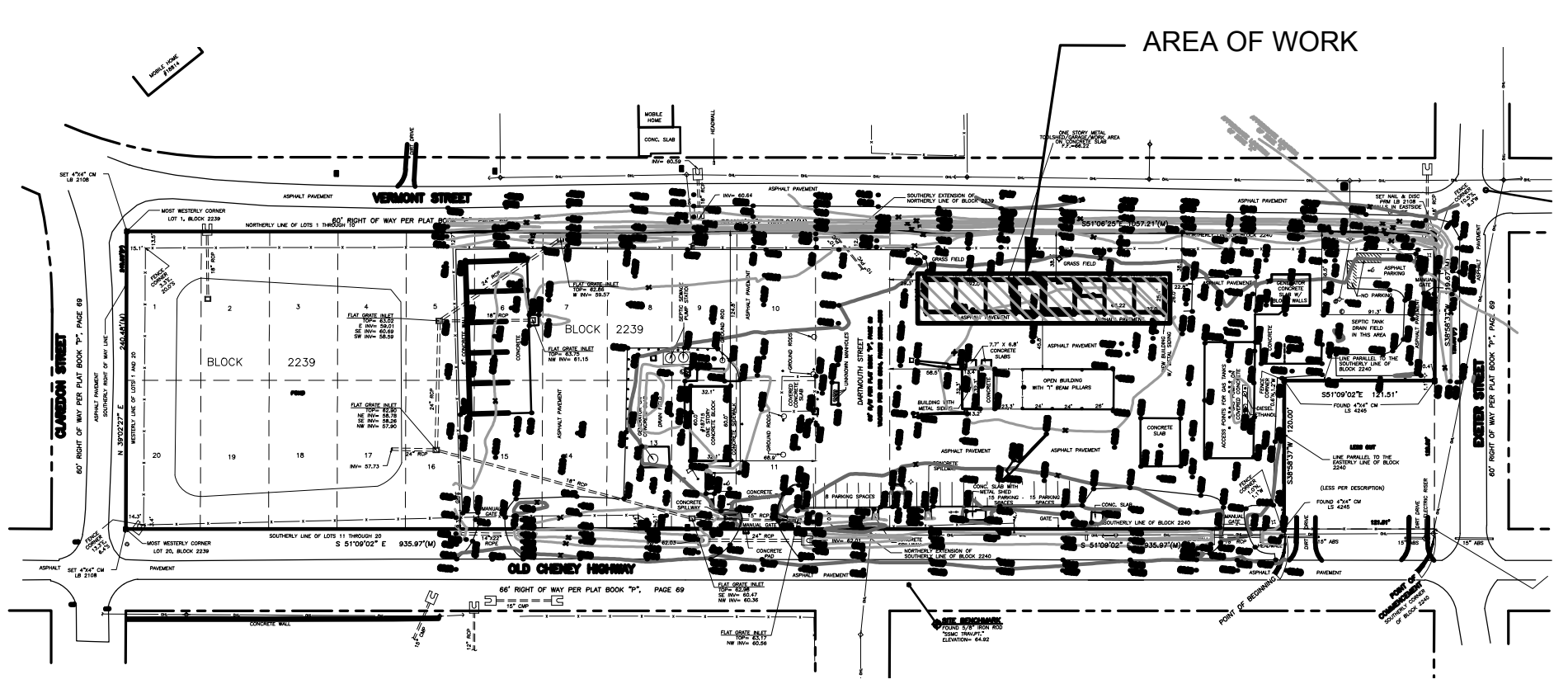
Sheet Title:

ARCHITECTURAL SITE PLAN
PROPOSED

A00.50B



1 ENLARGED SITE PLAN
SCALE NOT TO SCALE



2 OVERALL SITE PLAN
SCALE 1/128" = 1'-0"

KEY NOTES

- 1 OPEN PRE-MANUFACTURED BUILDING. REFER TO A02.01 A & B, FOR CONSTRUCTION.

2 PROPOSED ASPHALT REPAIR. RE-GRADE AND INSTALL NEW ASPHALT TO MEET THE NEW GRADES OF THE SLAB. SEE CIVIL DRAWINGS FOR MORE INFORMATION.

3 EXISTING BUILDING TO REMAIN. NO WORK REQUIRED.

4 EXISTING GENERATOR TO REMAIN.
- 5 GRADE AND LEVEL SMALL BUILDING SLAB.

6 INSTALL NEW FIRE PROTECTION CONNECTION AT EXISTING POND. REFER TO CIVIL DRAWINGS FOR ADDITIONAL INFORMATION.

SHEET NOTES

- A. COORDINATE ALL SHUTDOWNS IN UTILITY SERVICE WITH OWNER PRIOR TO PERFORMING SHUTDOWNS IN UTILITY SERVICE PER LANDLORD RULES AND REGULATIONS.
- B. REFER TO ENGINEERING DISCIPLINE DOCUMENTS FOR SCOPE OF DEMOLITION FOR MECHANICAL, ELECTRICAL, AND SPECIAL SYSTEMS, ETC.
- C. ALL CONDUITS AND WIRES REMOVED SHALL BE TAKEN BACK TO SOURCE OF SUPPLY. REFER TO ENGINEER'S DRAWINGS.
- D. GC TO RETURN ANY TOOLS AND EQUIPMENT TO ORANGE COUNTY FACILITIES PRIOR TO DEMOLITION.
- E. REFER TO METAL BUILDING MANUFACTURES DRAWINGS FOR ADDITIONAL INFORMATION.
- F. REFER TO CIVIL PLANS FOR EXACT LOCATION AND GRADING OF ASPHALT FOR NEW METAL BUILDING.

Project Documents for:

ORANGE COUNTY FLORIDA

Project:
BITHLO VEHICLE MAINTENANCE BUILDING

18715 OLD CHENEY HIGHWAY
ORLANDO, FL 32820

Issue	Date & Issue Description	Drawn By	Checked By
11.09.16	60% CD SET	JS	KA
01.24.17	90% CD SET	JS	KA
03.08.17	PERMIT ISSUE SET	JS	KA
09.26.17	CODE COMMENTS	JS	KA
11.10.17	CONSTRUCTION SET	JS	KA

Client Information

ORANGE COUNTY CAPITAL PROJECTS DIVISION
400 E SOUTH STREET
ORLANDO, FL 32801

Project Number	Issue Date
16053	11/10/2017
Drawn By	Project Status
JS	CONSTRUCTION SET
Checked By	Scale
KA	3/16"=1'-0"

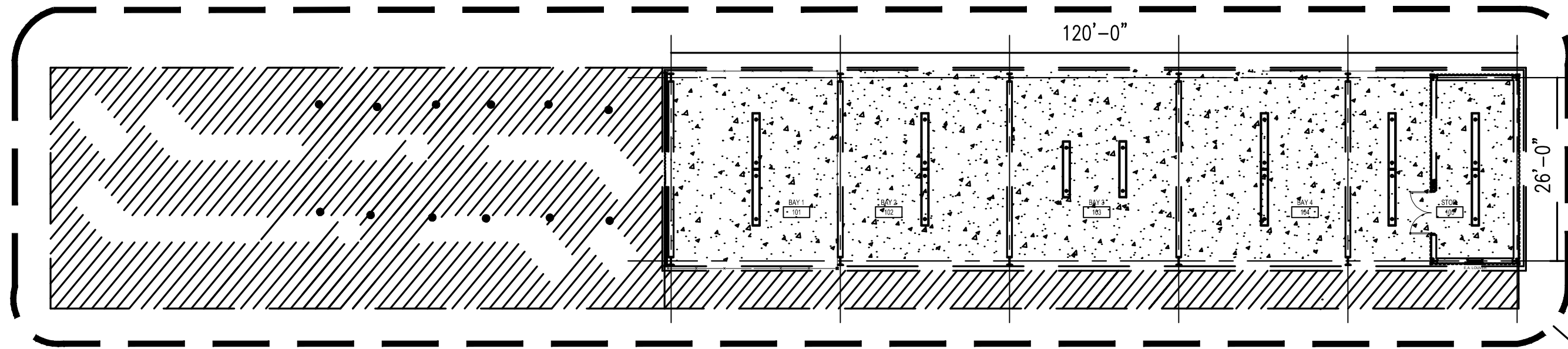
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Consultant • Seal/Signature

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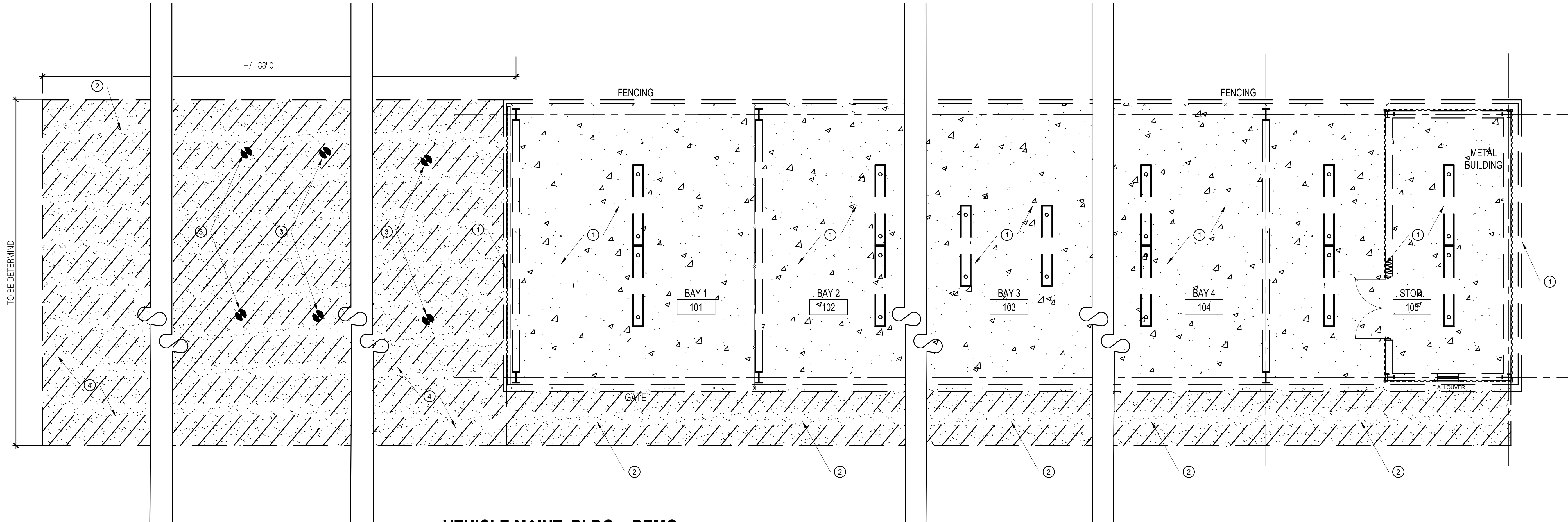
DEMOLITION PLAN

A01.01



1 OVERALL EXISTING FLOOR PLAN
SCALE 1/16" = 1'-0"

2
A01.01

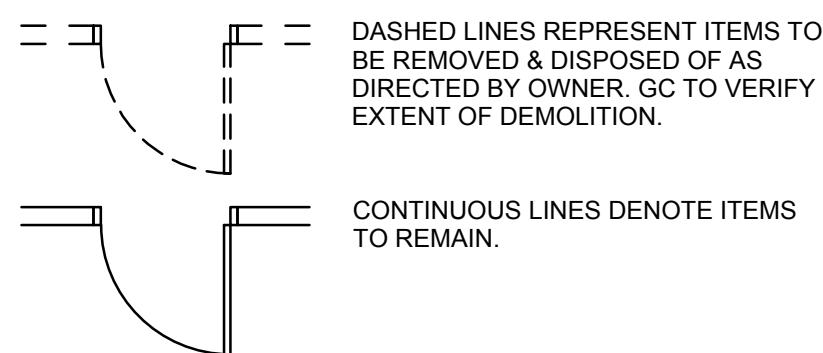


2 VEHICLE MAINT. BLDG. - DEMO.
SCALE 3/16" = 1'-0"

KEY NOTE

- DEMO ALL EXISTING METAL BUILDING, CONCRETE SLAB, FENCING, DOORS, LIGHTING, POWER, AND HVAC, ETC. REFER TO MEP DRAWINGS FOR ADDITIONAL DEMOLITION INFORMATION.
- SAW CUT EXISTING ASPHALT AS NEEDED TO ACCOMMODATE NEW STRUCTURE. COMPACT EXISTING GRADING. REFER TO STRUCTURAL DRAWINGS FOR COMPACTION AND SLAB DETAILS. REFER TO CIVIL DRAWINGS FOR EXTENTS OF ASPHALT AND GRADING.
- REMOVE EXISTING METAL TUBING.
- GC TO COORDINATE EXTENTS OF DEMOLITION WITH CIVIL GRADING PLAN AND PROPOSED BUILDING LOCATION.

LEGEND



SHEET NOTES

- COORDINATE ALL SHUTDOWNS IN UTILITY SERVICE WITH OWNER PRIOR TO PERFORMING. FOLLOW LANDLORD RULES AND REGULATIONS.
- REFER TO ENGINEERING DISCIPLINE DOCUMENTS FOR SCOPE OF DEMOLITION FOR MECHANICAL, ELECTRICAL, AND SPECIAL SYSTEMS, ETC.
- ALL CONDUITS AND WIRES REMOVED SHALL BE TAKEN BACK TO SOURCE OF SUPPLY. REFER TO ENGINEER'S DRAWINGS.
- GC TO RETURN ANY TOOLS AND EQUIPMENT TO ORANGE COUNTY FACILITIES PRIOR TO DEMOLITION.
- REFER TO METAL BUILDING MANUFACTURES DRAWINGS FOR ADDITIONAL INFORMATION.
- REFER TO CIVIL PLANS FOR EXACT LOCATION AND GRADING OF ASPHALT FOR NEW METAL BUILDING.
- REFER TO EXISTING SITE PLAN ON SHEET A00.50A FOR BUILDING DEMOLISH PHASING.



Issue	Date & Issue Description	Drawn By	Checked By
11.09.16	60% CD SET	JS	KA
01.24.17	90% CD SET	JS	KA
03.08.17	PERMIT ISSUE SET	JS	KA
09.26.17	CODE COMMENTS	JS	KA
11.10.17	CONSTRUCTION SET	JS	KA

PLANNING	Client Information
PLANNING	ORANGE COUNTY CAPITAL PROJECTS DIVISION
PLANNING	400 E SOUTH STREET
PLANNING	ORLANDO, FL 32801
ARCHITECTURE	Project Number
ARCHITECTURE	16053
ARCHITECTURE	Issue Date
ARCHITECTURE	11/10/2017
ARCHITECTURE	Project Status
ARCHITECTURE	CONSTRUCTION SET
ARCHITECTURE	Scale
ARCHITECTURE	1/4"=1'-0"

Client Information	ORANGE COUNTY CAPITAL PROJECTS DIVISION
Client Information	400 E SOUTH STREET
Client Information	ORLANDO, FL 32801

Project Number	16053
Issue Date	11/10/2017
Project Status	CONSTRUCTION SET
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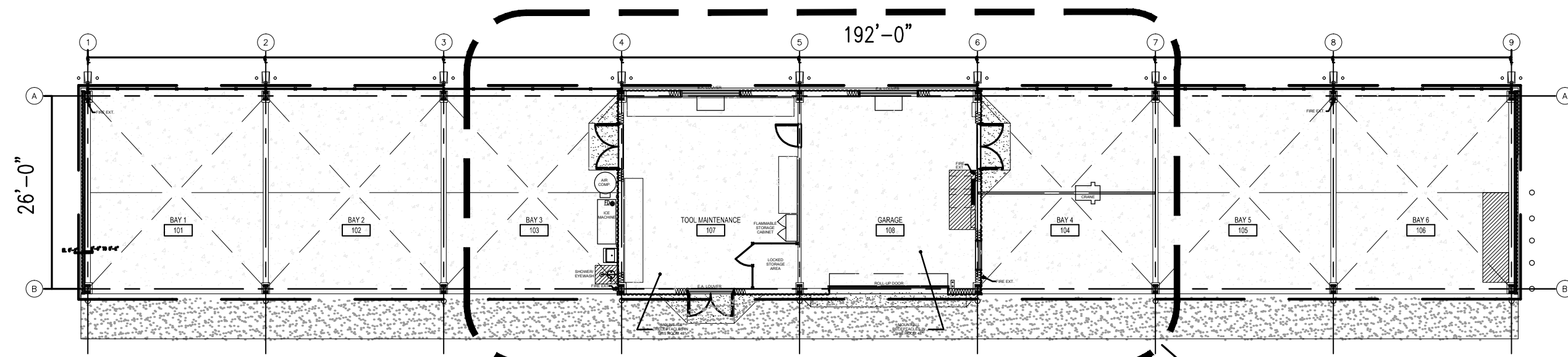
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Consultant • Seal/Signature

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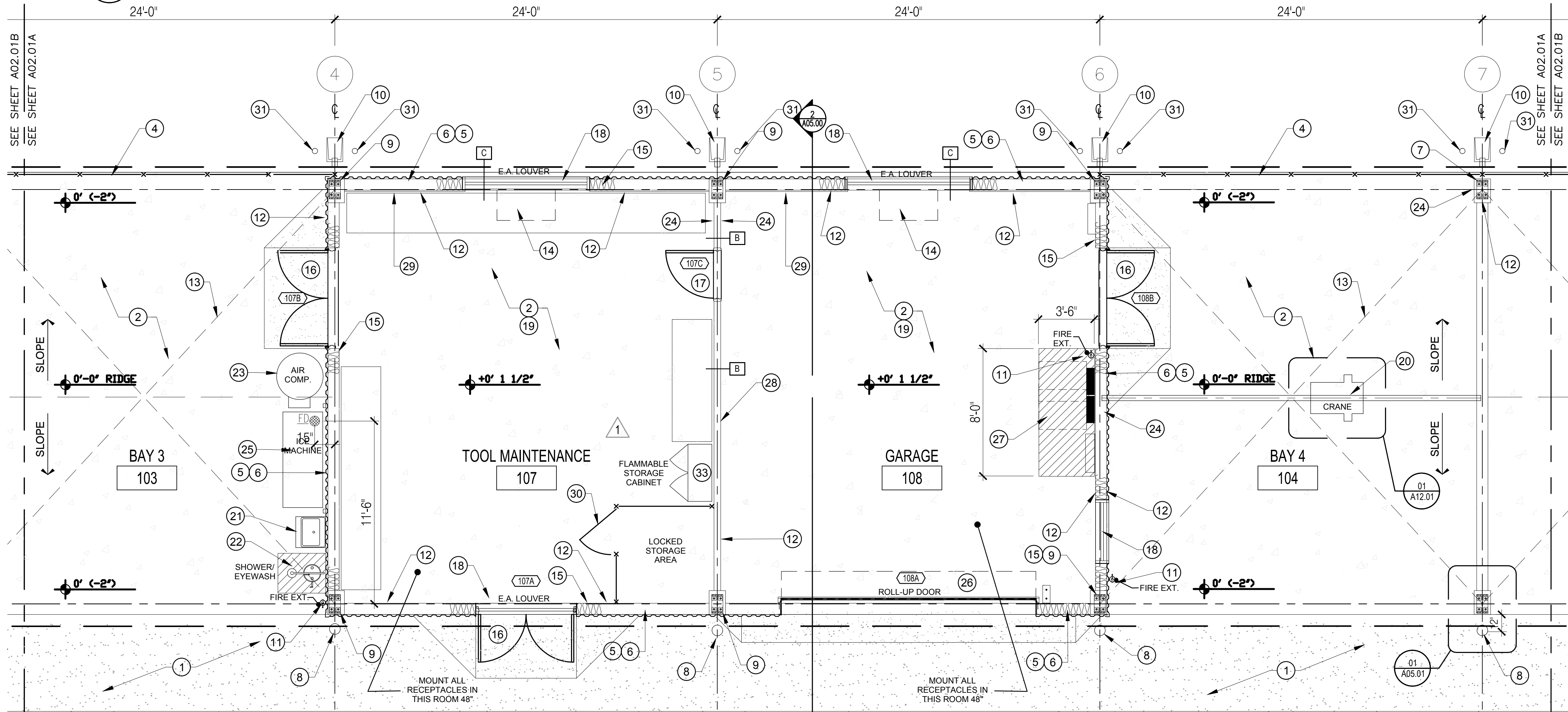
CONSTRUCTION PLAN

A02.01A



1 OVERALL FLOOR PLAN

SCALE 1/16" = 1'-0"



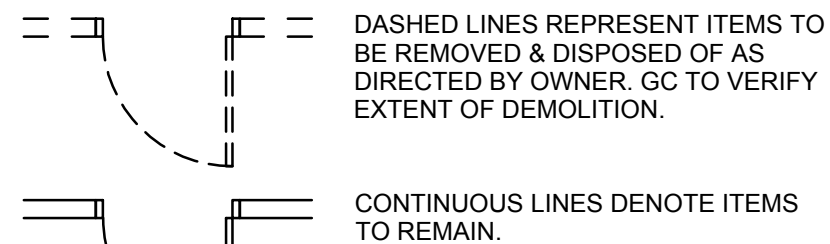
2 VEHICLE MAINT. BLDG. (PARTIAL FP)

SCALE 1/4" = 1'-0"

KEY NOTE

- NEW ASPHALT, REFER TO CIVIL ENGINEERING DRAWINGS FOR GRADING.
- CONCRETE SLAB ON GRADE. SEE STRUCTURAL DRAWINGS
- NOT USED.
- INSTALL CHAIN-LINK FENCING WITH BLACK-OUT FABRIC SCREENING ALONG THE BACK OF EACH BAY, REFER TO ELEVATIONS.
- TYP. PRE-ENGINEERED WALL GIRT BY METAL BUILDING MANUFACTURER.
- TYP. PRE-ENGINEERED METAL CORRUGATED PANELS WITH LAP SEAMS. COLOR TO BE SELECTED BY OC.
- PRE-ENGINEERED STEEL COLUMN AND COLUMN BASE PLATE BY METAL BUILDING MANUFACTURER. SEE STRUCTURAL DRAWINGS.
- 5'-0" HIGH 8" DIA GALV. STEEL PIPE FILLED W/3000 PSI CONCRETE W/ PLASTIC VINYL SLEEVE (SAFETY YELLOW) "POSTGUARD" OR APPROVED EQUAL
- PRE-ENGINEERED PORTAL FRAME PROVIDED BY METAL BUILDING MANUFACTURER. SEE STRUCTURAL DRAWINGS FOR ADDITIONAL INFO.
- DOWNSPOUT WITH METAL STRAPS BY METAL BUILDING MANUFACTURER. TYPICAL. CONCRETE SPLASH BLOCK AT EACH DOWNSPOUT.
- WALL MOUNTED PORTABLE FIRE EXTINGUISHERS PER NFPA 10 STANDARD, 48" MAX. MOUNTING HEIGHT TO TOP OF EXTINGUISHER TYP.
- GFI/WP OUTLET TO BE PROVIDED. SEE ELECTRICAL ENGINEERING.
- INDICATES "X" BRACING. SEE STRUCTURAL DWGS.
- INSTALL EXHAUST FANS. REFER TO MEP DRAWINGS FOR ADDITIONAL INFO.
- R-19 BLANK INSULATION AND ELASTOMERIC SEALANT. HELD IN PLACE BY CROSS GALVANIZED WIRE.
- INSTALL (2) 3'-0" X 7'-0" METAL DOUBLE DOOR WITH CONCRETE SLOPED RAMP. PROVIDED BY PRE-ENGINEERED METAL BUILDING MANUFACTURER.
- INSTALL 3'-0" X 7'-0" METAL PASSAGE DOOR. PROVIDED BY PRE-ENGINEERED METAL BUILDING MANUFACTURER.
- INSTALL LOUVER VENTS WITHIN GRIT WALL, PROVIDED BY PRE-ENGINEERED METAL BUILDING MANUFACTURER. SEE ELEVATIONS.
- LEVEL CONCRETE SLAB INSIDE TOOL MAINTENANCE ONLY.
- INSTALL STEEL RUNWAY HOIST BEAM AND 2 TON ELECTRIC HOIST IN BAY 4, REFER TO MEP DRAWINGS FOR ADDITIONAL INFORMATION.
- INSTALL S.S. HAND WASHING/JANITOR'S SINK IN BAY 3, REFER TO PLUMBING DRAWINGS.
- INSTALL SHOWER/EYEWASHING STATION. REFER TO PLUMBING DRAWINGS. PAINT 30" X 36" FLOOR CLEARANCE ON FLOORING WITH HIGH REFLECTIVE PAINT. INSTALL SIGNAGE ON WALL IN FRONT OF STATION @ 72" AFF.
- INSTALL AIR COMPRESSOR IN BAY 3, REFER TO MEP DRAWINGS FOR ADDITIONAL INFORMATION.
- INSTALL CDA DROPS WITH QUICK DISCONNECT @ 36" AFF. REFER TO MEP DRAWINGS FOR ADDITIONAL INFORMATION.
- INSTALL ICE MACHINE WITH WATER FILTER ABOVE FLOOR DRAIN. SPEC: MANITOWOC, INDIGO SERIES, I-450 ON 400 STORAGE BIN, ICE CAPACITY UP TO 450LBS /24 HRS. OR APPROVED EQUAL. ELECTRICAL REQUIREMENTS: 115/60/1 ON 20 AMP BREAKER, REFER TO MEP DRAWINGS.
- INSTALL ELECTRIC ROLL-UP DOOR 16'W X12'-6"H, THAT WITHSTANDS WINDS UP TO 120MPH, PROVIDED BY PRE-ENGINEERED METAL BUILDING MANUFACTURER. REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- PAINT 36" MIN. CLEARANCE ON FLOORING IN FRONT OF POWER PANELS WITH HIGH REFLECTIVE PAINT.
- INSTALL DIVIDER WALL PARTITION, 6" GAL. METAL STUD, 20 GAUGE @ 16" O.C. WITH 8" GYP. BD. FASTEN TO FLOOR AND GRIT ABOVE.
- HANG 3/4" F.R. PLYWOOD ON BACK WALLS, PAINT TO MATCH METAL PANELS.
- INSTALL 6' X 6' CHAIN-LINK FENCED AREA IN TOOL ROOM WITH GATE FOR LOCKED STORAGE.
- 2'-6" HIGH 4" DIA GALV. STEEL PIPE FILLED W/3000 PSI CONCRETE W/ PLASTIC VINYL SLEEVE (SAFETY YELLOW) "POSTGUARD" OR APPROVED EQUAL.
- INSTALL RE-LOCATED POWER PANELS FROM SMALL FUEL PUMP BUILDING, REFER TO MEP DRAWING FOR ADDITIONAL INFORMATION.
- INSTALL GROUND FLAMMABLE STORAGE CABINET. REFER TO ELECTRICAL FOR ADDITIONAL INFORMATION.

LEGEND



SHEET NOTES

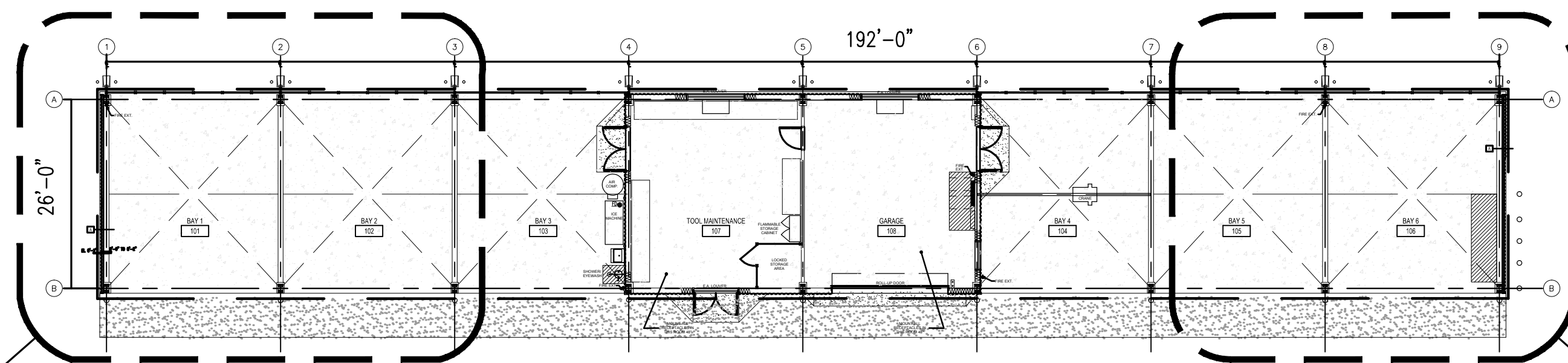
- NEW PRE-ENGINEERED METAL BUILDING WITH (6) @ 24'-0" X 26'-0" BAYS, TOOL MAINTENANCE AND GARAGE. BUILDING BY METAL BUILDING MANUFACTURER.
- CONCRETE SLAB FOR PRE-ENGINEERED BUILDING; 6" THICK REINFORCED CONCRETE SLAB WITH CONTROL JOINTS AND BEARING PADS AS REQUIRED. SEE STRUCTURAL ENGINEERING DRAWINGS.
- INSTALL CONCRETE FILLED BOLLARDS TO PROTECT COLUMNS
- FOR THE PURPOSES OF THIS DRAWING IT IS ASSUMED THAT THE OUTSIDE EDGE OF THE BOTTOM TRACK OF THE EXTERIOR METAL SIDING ASSEMBLY AND THE CONCRETE SLAB EDGE ARE IN THE SAME PLANE. A FINAL DETERMINATION OF THE DIMENSIONS AND/OR LOCATION OF THE CONCRETE SLAB EDGE AND DETAILS FOR CONNECTION OF THE EXTERIOR ASSEMBLY HAS TO BE COORDINATED WITH THE FINAL DRAWINGS FROM THE METAL BUILDING MANUFACTURER.
- PRE-ENGINEERED BUILDING TO MEET FLORIDA PRODUCT APPROVALS. METAL BUILDING MANUFACTURER SHALL PROVIDE SIGNED AND SEALED DRAWINGS BY A REGISTERED ENGINEER IN THE STATE OF FLORIDA.
- REFER TO DOOR SCHEDULE FOR ADDITIONAL INFORMATION.
- REFER TO STRUCTURAL FOR SLAB DETAILS.
- PROVIDE "Z" FLASHING AT ALL WINDOW, DOOR AND LOUVER OPENINGS.



Issue	Date & Issue Description	Drawn By	Checked By
11.09.16	60% CD SET	JS	KA
01.24.17	90% CD SET	JS	KA
03.08.17	PERMIT ISSUE SET	JS	KA
09.26.17	CODE COMMENTS	JS	KA
11.10.17	CONSTRUCTION SET	JS	KA

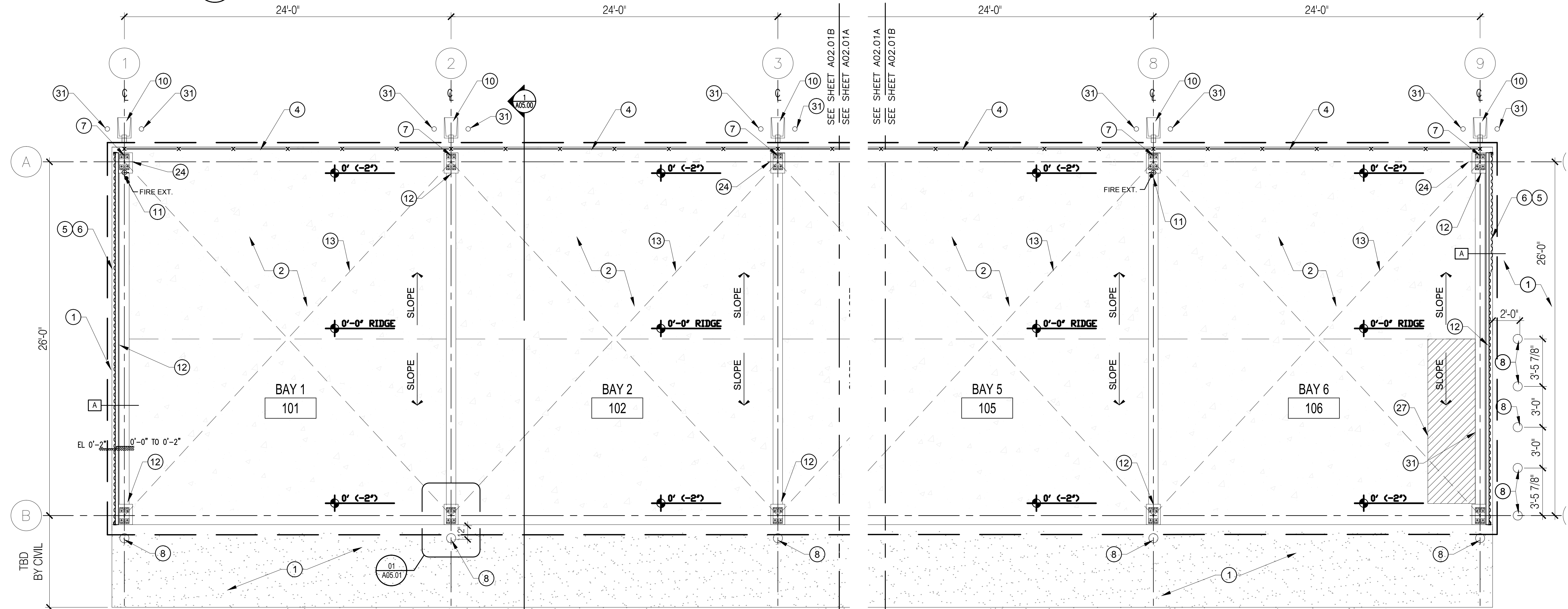
• SPACE PLANNING
• INTERIOR DESIGN

Project Number	Issue Date
16053	11/10/2017
Drawn By	Project Status
JS	CONSTRUCTION SET
Checked By	Scale
KA	1/4"=1'-0"



1 OVERALL FLOOR PLAN

SCALE 1/16" = 1'-0"



2 WEST END OF VEH. MAINT. BLDG.

SCALE 1/4" = 1'-0"

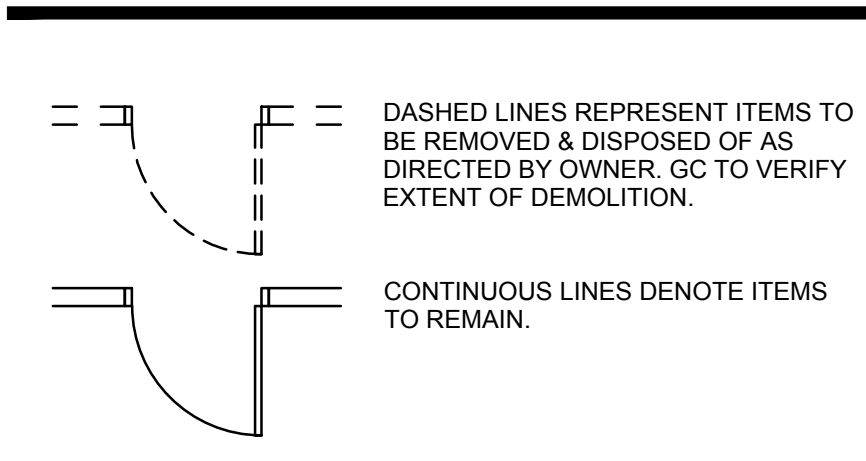
3 EAST END OF VEH. MAINT. BLDG.

SCALE 1/4" = 1'-0"

KEY NOTE

- NEW ASPHALT, REFER TO CIVIL ENGINEERING DRAWINGS FOR GRADING.
- CONCRETE SLAB ON GRADE. SEE STRUCTURAL DRAWINGS.
- NOT USED.
- INSTALL CHAIN-LINK FENCING WITH BLACK-OUT FABRIC SCREENING ALONG THE BACK OF EACH BAY, REFER TO ELEVATIONS.
- TYP. PRE-ENGINEERED WALL GIRT BY METAL BUILDING MANUFACTURER.
- TYP. PRE-ENGINEERED METAL CORRUGATED PANELS WITH LAP SEAMS. COLOR TO BE SELECTED BY OC.
- PRE-ENGINEERED STEEL COLUMN AND COLUMN BASE PLATE BY METAL BUILDING MANUFACTURER. SEE STRUCTURAL DRAWINGS.
- 5'-0" HIGH 8" DIA GALV. STEEL PIPE FILLED W/3000 PSI CONCRETE W/ PLASTIC VINYL SLEEVE (SAFETY YELLOW) "POSTGUARD" OR APPROVED EQUAL.
- PRE-ENGINEERED PORTAL FRAME PROVIDED BY METAL BUILDING MANUFACTURER. SEE STRUCTURAL DWGS FOR ADDITIONAL INFO.
- DOWNSPOUT WITH METAL STRAPS BY METAL BUILDING MANUFACTURER. TYPICAL. CONCRETE SPLASH BLOCK AT EACH DOWNSPOUT.
- WALL MOUNTED PORTABLE FIRE EXTINGUISHERS PER NFPA 10 STANDARD, 48" MAX. MOUNTING HEIGHT TO TOP OF EXTINGUISHER TYP.
- GFI/WP OUTLET TO BE PROVIDED. SEE ELECTRICAL ENGINEERING.
- INDICATES "X" BRACING. SEE STRUCTURAL DWGS.
- INSTALL EXHAUST FANS. REFER TO MEP DRAWINGS FOR ADDITIONAL INFO.
- R-19 BLANK INSULATION AND ELASTOMERIC SEALANT. HELD IN PLACE BY CROSS GALVANIZED WIRE.
- INSTALL (2) 3'-0" X 7'-0" METAL DOUBLE DOOR WITH CONCRETE SLOPED RAMP. PROVIDED BY PRE-ENGINEERED METAL BUILDING MANUFACTURER.
- INSTALL 3'-0" X 7'-0" METAL PASSAGE DOOR. PROVIDED BY PRE-ENGINEERED METAL BUILDING MANUFACTURER.
- INSTALL LOUVER VENTS WITHIN GRIT WALL, PROVIDED BY PRE-ENGINEERED METAL BUILDING MANUFACTURE. SEE ELEVATIONS.
- LEVEL CONCRETE SLAB INSIDE TOOL MAINTENANCE ONLY.
- INSTALL STEEL RUNWAY HOIST BEAM AND 2 TON ELECTRIC HOIST IN BAY 4, REFER TO MEP DRAWINGS FOR ADDITIONAL INFORMATION.
- INSTALL S.S. HAND WASHING/JANITOR'S SINK IN BAY 3, REFER TO PLUMBING DRAWINGS.
- INSTALL SHOWER/EYE WASHING STATION. REFER TO PLUMBING DRAWINGS. PAINT 30" X 36" FLOOR CLEARANCE ON FLOORING WITH HIGH REFLECTIVE PAINT. INSTALL SIGNAGE ON WALL IN FRONT OF STATION @ 72" AFF.
- INSTALL AIR COMPRESSOR IN BAY 3, REFER TO MEP DRAWINGS FOR ADDITIONAL INFORMATION.
- INSTALL CDA DROPS WITH QUICK DISCONNECT @ 36" AFF. REFER TO MEP DRAWINGS FOR ADDITIONAL INFORMATION.
- INSTALL ICE MACHINE WITH WATER FILTER ABOVE FLOOR DRAIN. SPEC: MANITOWOC, INDIGO SERIES, I-450 ON 400 STORAGE BIN, ICE CAPACITY UP TO 450LBS /24 HRS. OR APPROVED EQUAL. ELECTRICAL REQUIREMENTS: 115/60/1 ON 20 AMP BREAKER, REFER TO MEP DRAWINGS.
- INSTALL ELECTRIC ROLL-UP DOOR 16'W x12'-6"H, THAT WITHSTANDS WINDS UP TO 120MPH, PROVIDED BY PRE-ENGINEERED METAL BUILDING MANUFACTURE. REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- PAINT 36" MIN. CLEARANCE ON FLOORING IN FRONT OF POWER PANELS WITH HIGH REFLECTIVE PAINT.
- INSTALL DIVIDER WALL PARTITION, 6" GAL. METAL STUD, 20 GAUGE @ 16" O.C. WITH 5/8" GYP. BD. FASTEN TO FLOOR AND GRIT ABOVE.
- HANG 3/4" F.R. PLYWOOD ON BACK WALLS, PAINT TO MATCH METAL PANELS.
- INSTALL 6' X 6' CHAIN-LINK FENCED AREA IN TOOL ROOM WITH GATE FOR LOCKED STORAGE.
- 2'-6" HIGH 4" DIA GALV. STEEL PIPE FILLED W/3000 PSI CONCRETE W/ PLASTIC VINYL SLEEVE (SAFETY YELLOW) "POSTGUARD" OR APPROVED EQUAL.
- INSTALL RE-LOCATED POWER PANELS FROM SMALL FUEL PUMP BUILDING, REFER TO MEP DRAWING FOR ADDITIONAL INFORMATION.

LEGEND



SHEET NOTES

- NEW PRE-ENGINEERED METAL BUILDING WITH (6) @ 24'-0" X 26'-0" BAYS, TOOL MAINTENANCE AND GARAGE. BUILDING BY METAL BUILDING MANUFACTURER.
- CONCRETE SLAB FOR PRE-ENGINEERED BUILDING: 6" THICK REINFORCED CONCRETE SLAB WITH CONTROL JOINTS AND BEARING PADS AS REQUIRED. SEE STRUCTURAL ENGINEERING DRAWINGS.
- INSTALL CONCRETE FILLED BOLLARDS TO PROTECT COLUMNS
- FOR THE PURPOSES OF THIS DRAWING IT IS ASSUMED THAT THE OUTSIDE EDGE OF THE BOTTOM TRACK OF THE EXTERIOR METAL SIDING ASSEMBLY AND THE CONCRETE SLAB EDGE ARE IN THE SAME PLANE. A FINAL DETERMINATION OF THE DIMENSIONS AND/OR LOCATION OF THE CONCRETE SLAB EDGE AND DETAILS FOR CONNECTION OF THE EXTERIOR ASSEMBLY HAS TO BE COORDINATED WITH THE FINAL DRAWINGS FROM THE METAL BUILDING MANUFACTURER.
- PRE-ENGINEERED BUILDING TO MEET FLORIDA PRODUCT APPROVALS. METAL BUILDING MANUFACTURER SHALL PROVIDE SIGNED AND SEALED DRAWINGS BY A REGISTERED ENGINEER IN THE STATE OF FLORIDA.
- REFER TO DOOR SCHEDULE FOR ADDITIONAL INFORMATION.
- REFER TO STRUCTURAL FOR SLAB DETAILS.
- PROVIDE "Z" FLASHING AT ALL WINDOW, DOOR AND LOUVER OPENINGS.

Project Documents for:



Project:
BITHLO VEHICLE MAINTENANCE BUILDING
18715 OLD CHENEY HIGHWAY
ORLANDO, FL 32820

Issue	Date & Issue Description	Drawn By	Checked By
11.09.16	60% CD SET	JS	KA
01.24.17	90% CD SET	JS	KA
03.08.17	PERMIT ISSUE SET	JS	KA
09.26.17	CODE COMMENTS	JS	KA
11.10.17	CONSTRUCTION SET	JS	KA

• SPACE PLANNING

• INTERIOR DESIGN

• PLANNING

• ARCHITECTURE

Client Information

ORANGE COUNTY CAPITAL PROJECTS DIVISION
400 E SOUTH STREET
ORLANDO, FL 32801

Project Number	Issue Date
16053	11/10/2017
Drawn By	Project Status
JS	CONSTRUCTION SET
Checked By	Scale
KA	1/4"=1'-0"

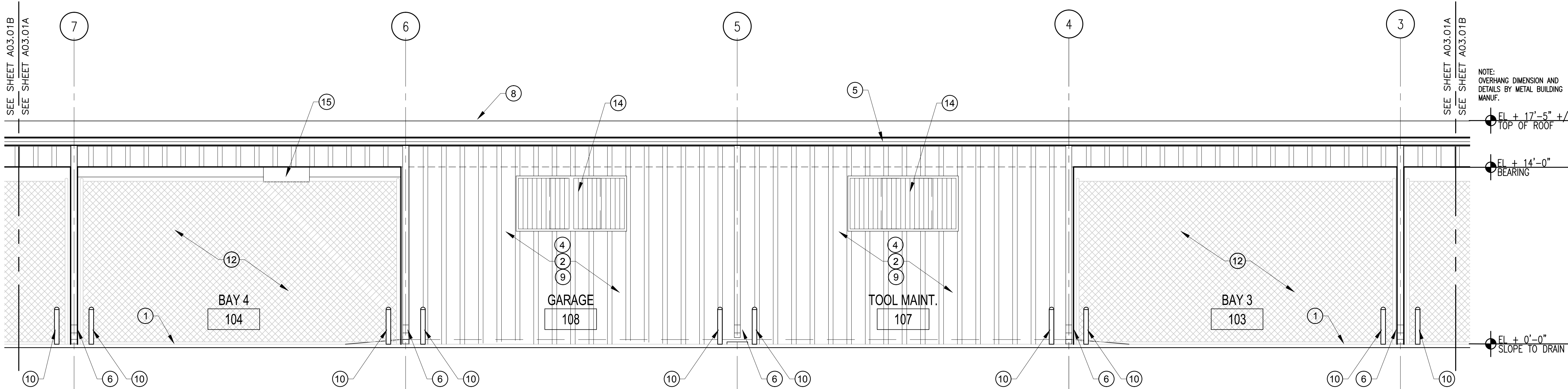
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Consultant • Seal/Signature

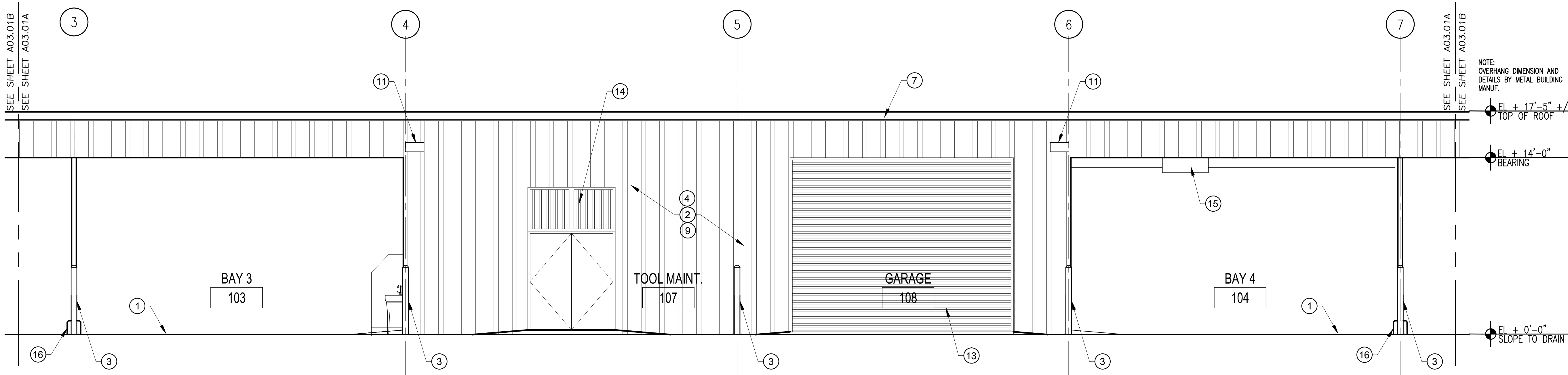
Sheet Title:

EXTERIOR ELEVATIONS

A03.01A



1 VEHICLE MAINT. BLDG. (PARTIAL N. ELEVATION)
SCALE 1/4" = 1'-0"



2 VEHICLE MAINT. BLDG. (PARTIAL S. ELEVATION)
SCALE 1/4" = 1'-0"

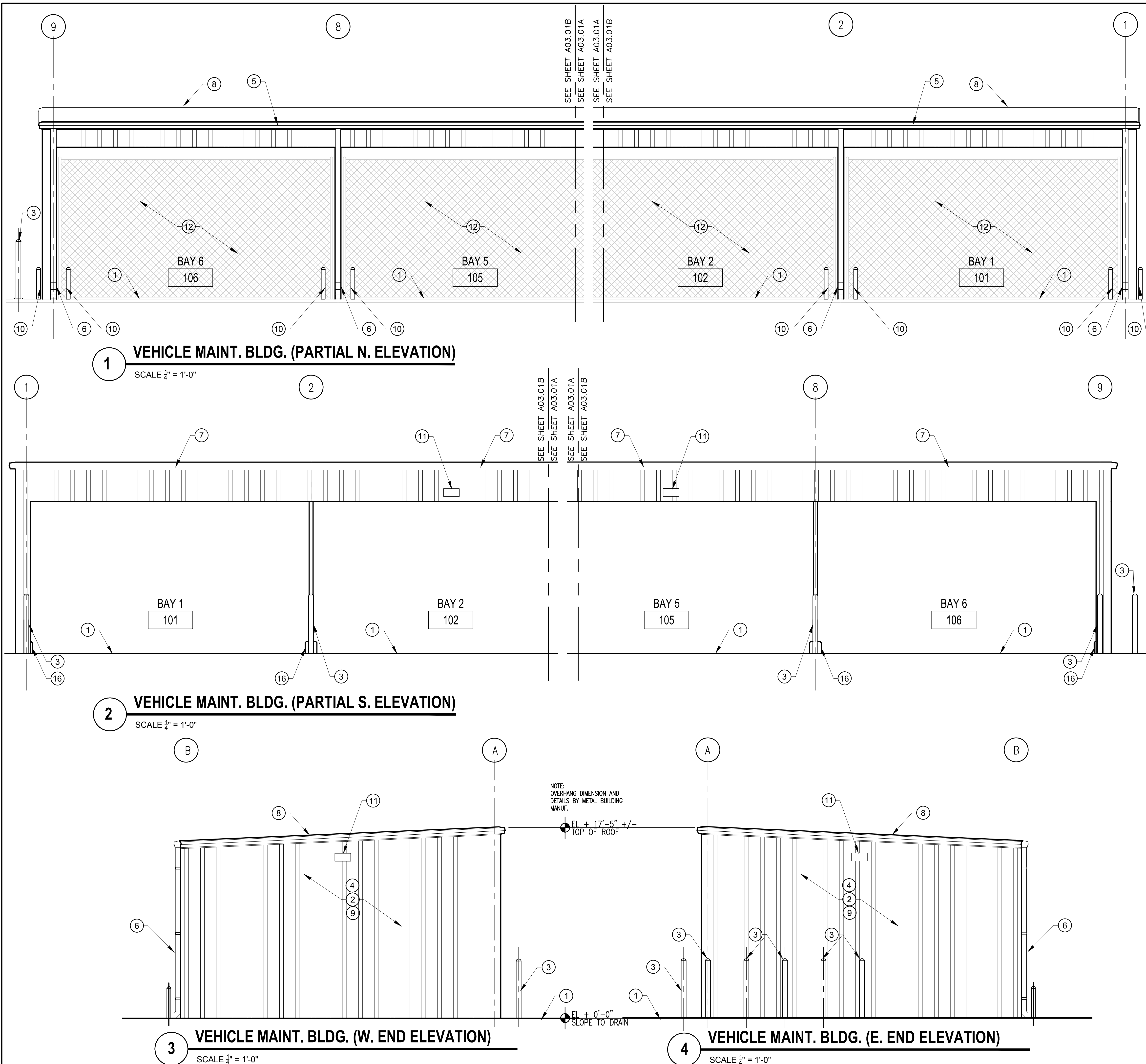
KEY NOTE

- | | |
|--|---|
| <p>(1) NEW REINFORCED CONCRETE SLAB ON GRADE. SEE STRUCTURAL ENGINEERING FOR DESIGN AND DETAILS.</p> <p>(2) PRE-ENGINEERED METAL CORRUGATED PANELS WITH LAP SEAMS. COLOR TO BE SELECTED BY ARCHITECT.</p> <p>(3) 5'-0" HIGH X 8" DIA. GALVANIZED STEEL PIPE FILLED WITH 3000 PSI CONCRETE. INSTALL "POSTGAURD" OR EQUAL PLASTIC VINYL SLEEVE IN SAFETY YELLOW.</p> <p>(4) ALL TRIM BY PRE-ENGINEERED METAL BUILDING MANUFACTURER.</p> <p>(5) 24GA GALVANIZED PAINTED GUTTER BY METAL BUILDING MANUFACTURER.</p> <p>(6) DOWNSPOUT WITH METAL STRAPS BY METAL BUILDING MANUFACTURER.</p> <p>(7) 20GA METAL FASCIA. PAINT COLOR BY ARCHITECT.</p> <p>(8) GALVALUME STANDING SEAM ROOF, SHOP PAINTED WHITE.</p> <p>(9) PAINT ALL EXPOSED PRE-ENGINEERED STRUCTURAL MEMBERS COMPLETELY. COLOR BY ARCHITECT.</p> <p>(10) 2'-6" HIGH X 4" DIA. GALVANIZED STEEL PIPE FILLED WITH 3000 PSI CONCRETE. INSTALL "POSTGAURD" OR EQUAL PLASTIC VINYL SLEEVE IN SAFETY YELLOW TO PROTECT DOWNSPOUT.</p> | <p>(11) EXTERIOR LIGHT FIXTURE. REFER TO ELECTRICAL ENGINEERING DRAWINGS FOR DETAILS. LIGHTING TO BE SENSOR CONTROLLED.</p> <p>(12) CHAIN-LINK FENCE WITH BLACK-OUT FABRIC SCREENING.</p> <p>(13) ROLL-UP DOOR. PROVIDED BY METAL BUILDING MANUFACTURE.</p> <p>(14) LOUVER VENTILATION, PROVIDED BY METAL BUILDING MANUFACTURE.</p> <p>(15) TWO TON CRANE LOCATED IN BAY 4.</p> <p>(16) PRE-ENGINEERED STEEL COLUMN WITH BASE PLATE OVER CONCRETE PILASTER. SEE STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.</p> |
|--|---|

SHEET NOTES

- A. NEW PRE-ENGINEERED METAL BUILDING WITH (6) 24'-0" X 26'-0" BAYS, TOOL MAINTENANCE AND GARAGE. BUILDING BY METAL BUILDING MANUFACTURER.
- B. CONCRETE SLAB FOR PRE-ENGINEERED BUILDING. 6" THICK REINFORCED CONCRETE SLAB WITH CONTROL JOINTS AND BEARING PADS AS REQUIRED. SEE STRUCTURAL ENGINEERING DRAWINGS.
- C. INSTALL CONCRETE FILLED BOLLARDS TO PROTECT COLUMNS.
- D. REFER TO ELECTRICAL DRAWINGS FOR LIGHTING DESIGN, DETAILS AND SPECIFICATIONS.

PRINTED ON: Nov 10, 2017 - 3:16pm



KEY NOTES

- NEW REINFORCED CONCRETE SLAB ON GRADE. SEE STRUCTURAL ENGINEERING FOR DESIGN AND DETAILS.
- PRE-ENGINEERED METAL CORRUGATED PANELS WITH LAP SEAMS. COLOR TO BE SELECTED BY ARCHITECT.
- 5'-0" HIGH X 8" DIA. GALVANIZED STEEL PIPE FILLED WITH 3000 PSI CONCRETE. INSTALL "POSTGAURD" OR EQUAL PLASTIC VINYL SLEEVE IN SAFETY YELLOW.
- ALL TRIM BY PRE-ENGINEERED METAL BUILDING MANUFACTURER.
- 24GA GALVANIZED PAINTED GUTTER BY METAL BUILDING MANUFACTURER.
- DOWNSPOUT WITH METAL STRAPS BY METAL BUILDING MANUFACTURER.
- 20GA METAL FASCIA. PAINT COLOR BY ARCHITECT.
- GALVALUME STANDING SEAM ROOF. SHOP PAINTED WHITE.
- PAINT ALL EXPOSED PRE-ENGINEERED STRUCTURAL MEMBERS COMPLETELY. COLOR BY ARCHITECT.
- 2'-6" HIGH X 4" DIA. GALVANIZED STEEL PIPE FILLED WITH 3000 PSI CONCRETE. INSTALL "POSTGAURD" OR EQUAL PLASTIC VINYL SLEEVE IN SAFETY YELLOW TO PROTECT DOWNSPOUT.
- EXTERIOR LIGHT FIXTURE. REFER TO ELECTRICAL ENGINEERING DRAWINGS FOR DETAILS. LIGHTING TO BE SENSOR CONTROLLED.
- CHAIN-LINK FENCE WITH BLACK-OUT FABRIC SCREENING.
- ROLL-UP DOOR, PROVIDED BY METAL BUILDING MANUFACTURER.
- LOUVER VENTILATION, PROVIDED BY METAL BUILDING MANUFACTURER.
- TWO TON CRANE LOCATED IN BAY 4.
- PRE-ENGINEERED STEEL COLUMN WITH BASE PLATE OVER CONCRETE PILASTER. SEE STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.

GENERAL NOTES

A. NEW PRE-ENGINEERED METAL BUILDING WITH (6) 24'-0" X 26'-0" BAYS, TOOL MAINTENANCE AND GARAGE. BUILDING BY METAL BUILDING MANUFACTURER.

B. CONCRETE SLAB FOR PRE-ENGINEERED BUILDING: 6" THICK REINFORCED CONCRETE SLAB WITH CONTROL JOINTS AND BEARING PADS AS REQUIRED. SEE STRUCTURAL ENGINEERING DRAWINGS.

C. INSTALL CONCRETE FILLED BOLLARDS TO PROTECT COLUMNS.

D. REFER TO ELECTRICAL DRAWINGS FOR LIGHTING DESIGN, DETAILS AND SPECIFICATIONS.

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STATE OF FLORIDA
ALBERT J. COOPER, R.A.
Architect • Seal/Signature

AA-C001315
AR-0010460

Project Documents for:

Project:
BITHLO VEHICLE MAINTENANCE BUILDING

18715 OLD CHENEY HIGHWAY
ORLANDO, FL 32820

Issue	Date & Issue Description	Drawn By	Checked By
1	11.09.16 60% CD SET	JS	KA
2	01.24.17 90% CD SET	JS	KA
3	03.08.17 PERMIT ISSUE SET	JS	KA
4	09.26.17 CODE COMMENTS	JS	KA
5	11.10.17 CONSTRUCTION SET	JS	KA

• SPACE PLANNING

• INTERIOR DESIGN

• PLANNING

Client Information
ORANGE COUNTY CAPITAL PROJECTS DIVISION
400 E SOUTH STREET
ORLANDO, FL 32801

• ARCHITECTURE

Project Number	Issue Date
16053	11/10/2017

Drawn By	Project Status
JS	CONSTRUCTION SET

Checked By	Scale
KA	1/4"=1'-0"

File Name
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Consultant • Seal/Signature

Sheet Title:

EXTERIOR ELEVATIONS

A03.01B

OWNERSHIP OF INSTRUMENTS OF SERVICE:
ALL REPORTS, PLANS, SPECIFICATIONS, FIELD DATA AND NOTES AND OTHER DOCUMENTS, INCLUDING ALL DOCUMENTS ON ELECTRONIC MEDIA, PREPARED BY THE DESIGN PROFESSIONAL AS INSTRUMENTS OF SERVICE SHALL REMAIN THE PROPERTY OF THE DESIGN PROFESSIONAL.



Issue	Date & Issue Description	Drawn By	Checked By
11.09.16	60% CD SET	JS	KA
01.24.17	90% CD SET	JS	KA
03.08.17	PERMIT ISSUE SET	JS	KA
09.26.17	CODE COMMENTS	JS	KA
11.10.17	CONSTRUCTION SET	JS	KA

• SPACE PLANNING
• INTERIOR DESIGN

Client Information
ORANGE COUNTY CAPITAL PROJECTS DIVISION
400 E SOUTH STREET
ORLANDO, FL 32801

Project Number	Issue Date
16053	11/10/2017
Drawn By	Project Status
JS	CONSTRUCTION SET
Checked By	Scale
KA	1/4"=1'-0"

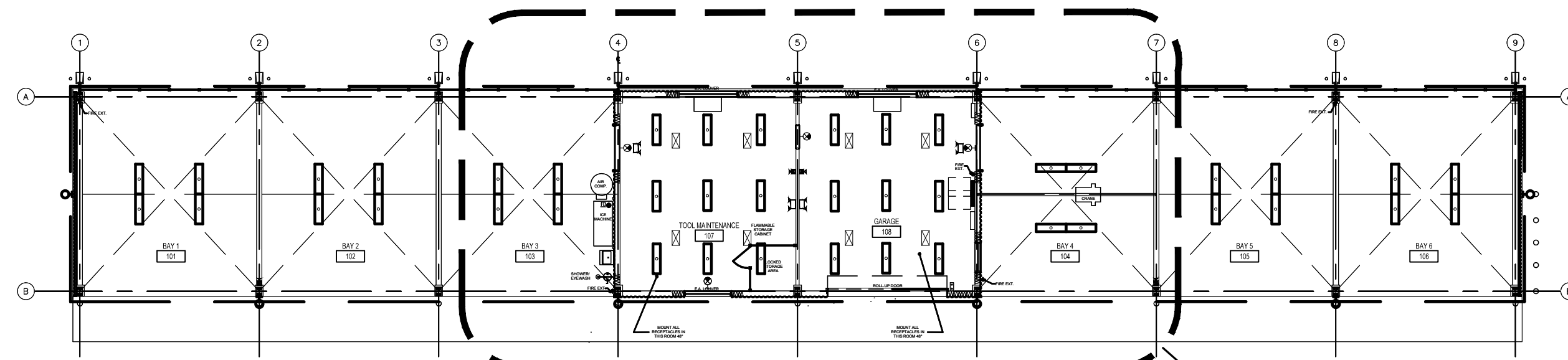
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Consultant • Seal/Signature

Sheet Title:

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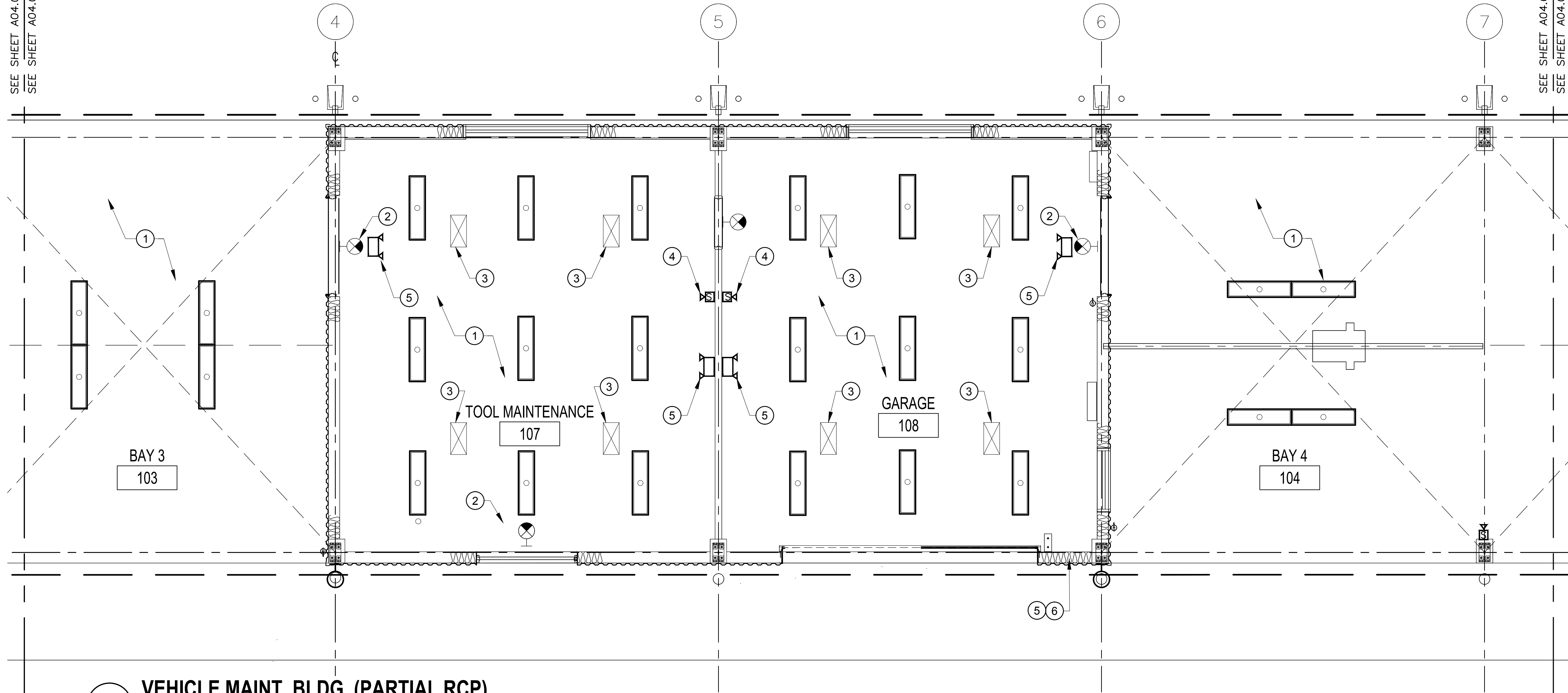
A04.01A



1 OVERALL FLOOR PLAN

SCALE 1/16" = 1'-0"

SEE SHEET A04.01B
SEE SHEET A04.01A



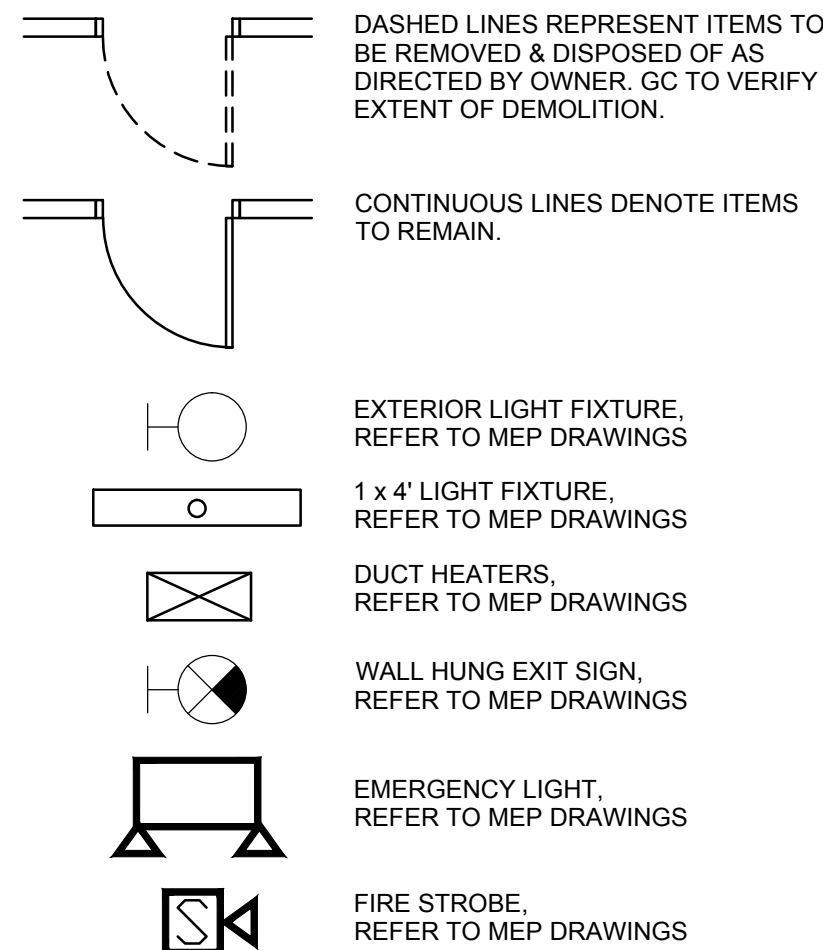
2 VEHICLE MAINT. BLDG. (PARTIAL RCP)

SCALE 1/4" = 1'-0"

KEY NOTE

- 1 INSTALL NEW LIGHT FIXTURES, REFER TO ELECTRICAL DRAWINGS.
- 2 INSTALL NEW EXIT LIGHTING, REFER TO ELECTRICAL DRAWINGS.
- 3 INSTALL HEATER UNITS, REFER TO MECHANICAL DRAWINGS.
- 4 INSTALL FIRE STROBES AS REQUIRED, REFER TO ELECTRICAL DRAWINGS.
- 5 INSTALL EMERGENCY LIGHTING AS REQUIRED, REFER TO MECHANICAL DRAWINGS.

LEGEND



SHEET NOTES

- A. COORDINATE ALL SHUTDOWNS IN UTILITY SERVICES WITH OWNER PRIOR TO PERFORMING, FOLLOW LANDLORD RULES AND REGULATIONS.
- B. REFER TO ENGINEERING DISCIPLINE DOCUMENTS FOR ADDITIONAL INFORMATION.
- C. REFER TO PRE-ENGINEERED METAL BUILDING DRAWINGS FOR ADDITIONAL INFORMATION.

Project Documents for:

ORANGE COUNTY
FLORIDA

Project:
BITHLO VEHICLE MAINTENANCE BUILDING

18715 OLD CHENEY HIGHWAY
ORLANDO, FL 32820

Issue	Date & Issue Description	Drawn By	Checked By
11.09.16	60% CD SET	JS	KA
01.24.17	90% CD SET	JS	KA
03.08.17	PERMIT ISSUE SET	JS	KA
09.26.17	CODE COMMENTS	JS	KA
11.10.17	CONSTRUCTION SET	JS	KA

• PLANNING	Client Information
• SPACE PLANNING	ORANGE COUNTY CAPITAL PROJECTS DIVISION
• INTERIOR DESIGN	400 E SOUTH STREET
	ORLANDO, FL 32801

ARCHITECTURE	Project Number	Issue Date
	16053	11/10/2017
	Drawn By	Project Status
	JS	CONSTRUCTION SET
	Checked By	Scale
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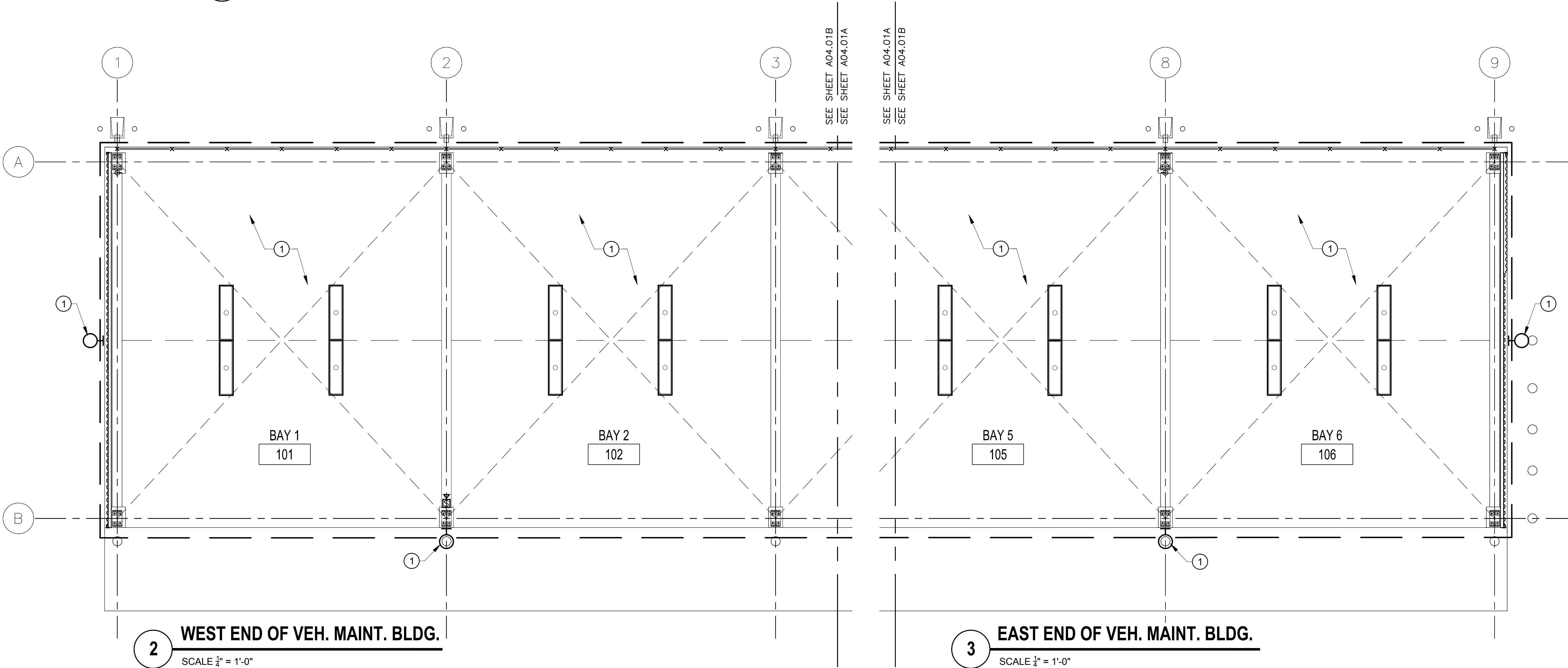
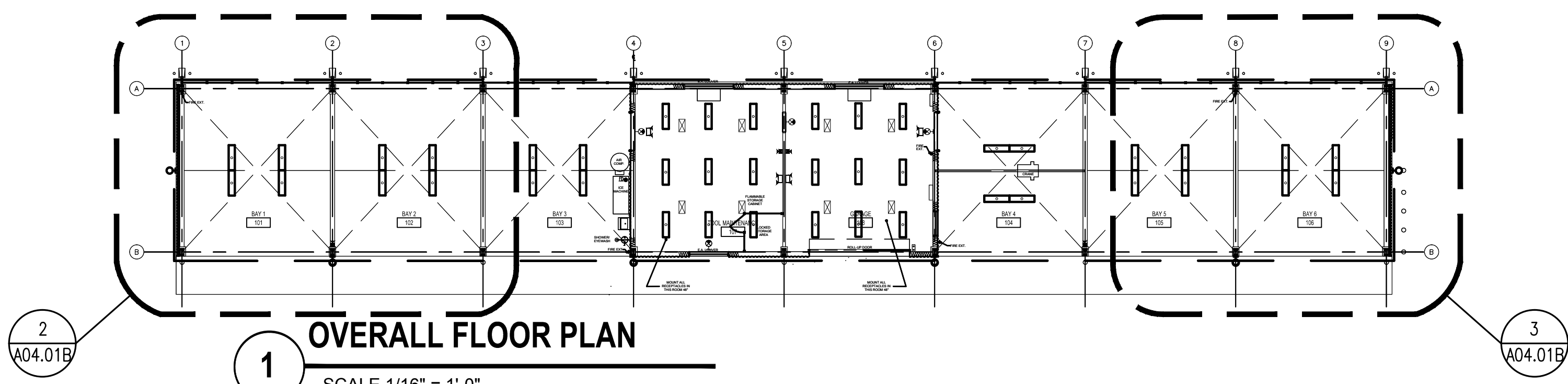
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Consultant • Seal/Signature

Sheet Title:

REFLECTED CEILING PLAN

A04.01B



KEY NOTE

1. INSTALL NEW LIGHT FIXTURES, REFER TO ELECTRICAL DRAWINGS.
2. INSTALL NEW EXIT LIGHTING, REFER TO ELECTRICAL DRAWINGS.
3. INSTALL HEATER UNITS, REFER TO MECHANICAL DRAWINGS.
4. INSTALL FIRE STROBES AS REQUIRED, REFER TO ELECTRICAL DRAWINGS.
5. INSTALL EMERGENCY LIGHTING AS REQUIRED, REFER TO MECHANICAL DRAWINGS.

LEGEND

- DASHED LINES REPRESENT ITEMS TO BE REMOVED & DISPOSED OF AS DIRECTED BY OWNER. GC TO VERIFY EXTENT OF DEMOLITION.
- CONTINUOUS LINES DENOTE ITEMS TO REMAIN.
- EXTERIOR LIGHT FIXTURE, REFER TO MEP DRAWINGS
- 1 x 4' LIGHT FIXTURE, REFER TO MEP DRAWINGS

SHEET NOTES

- A. COORDINATE ALL SHUTDOWNS IN UTILITY SERVICES WITH OWNER PRIOR TO PERFORMING, FOLLOW LANDLORD RULES AND REGULATIONS.
- B. REFER TO ENGINEERING DISCIPLINE DOCUMENTS FOR ADDITIONAL INFORMATION.
- C. REFER TO PRE-ENGINEERED METAL BUILDING DRAWINGS FOR ADDITIONAL INFORMATION.

Project Documents for:



Project:
BITHLO VEHICLE MAINTENANCE BUILDING
18715 OLD CHENEY HIGHWAY
ORLANDO, FL 32820

Issue	Date & Issue Description	Drawn By	Checked By
11.09.16	60% CD SET	JS	KA
01.24.17	90% CD SET	JS	KA
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09.26.17	CODE COMMENTS	JS	KA
11.10.17	CONSTRUCTION SET	JS	KA

• SPACE PLANNING

• INTERIOR DESIGN

• PLANNING

Client Information
ORANGE COUNTY CAPITAL PROJECTS DIVISION
400 E SOUTH STREET
ORLANDO, FL 32801

Project Number	Issue Date
16053	11/10/2017
Drawn By	Project Status
JS	CONSTRUCTION SET
Checked By	Scale
KA	3/8"=1'-0"

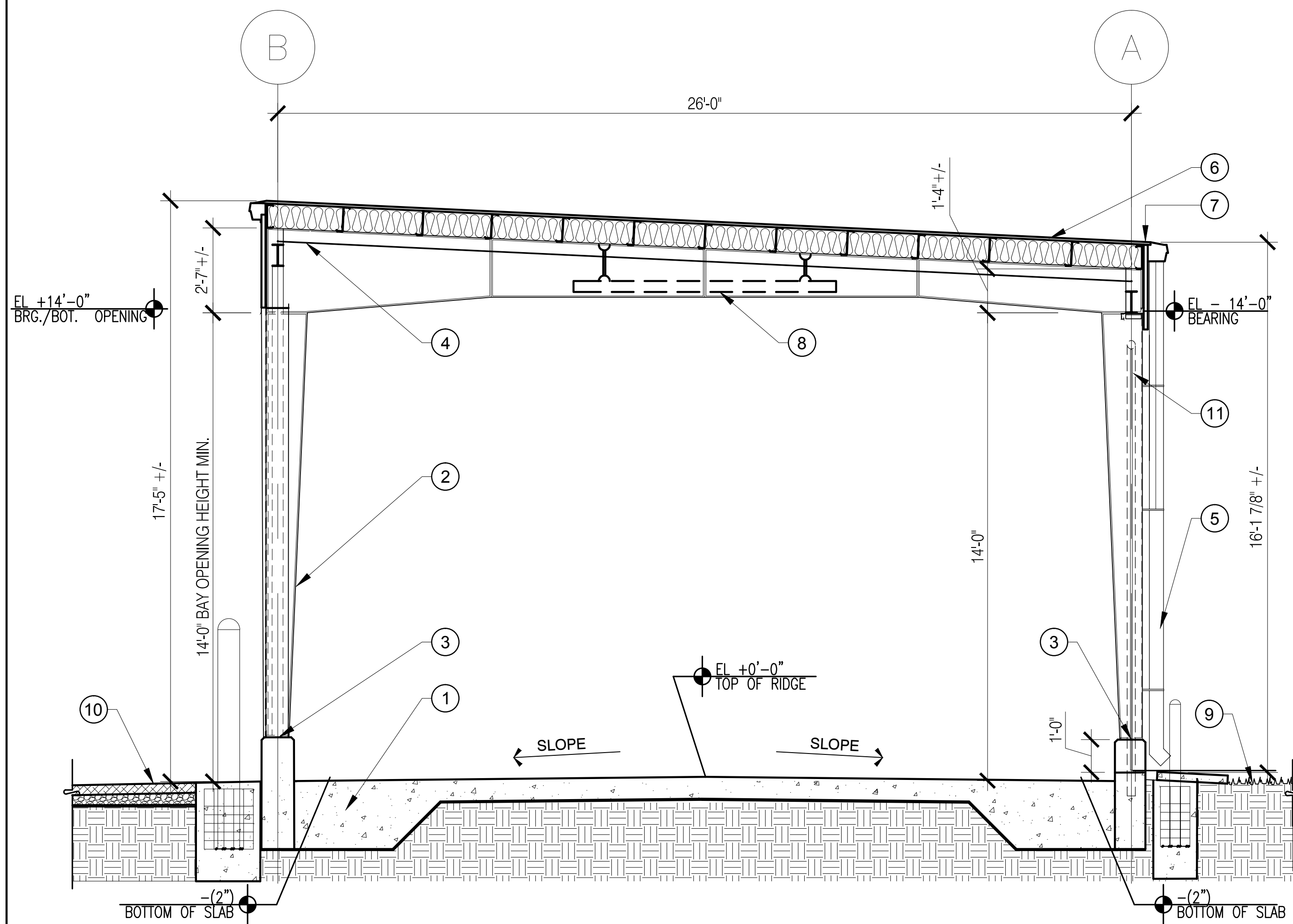
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Consultant • Seal/Signature

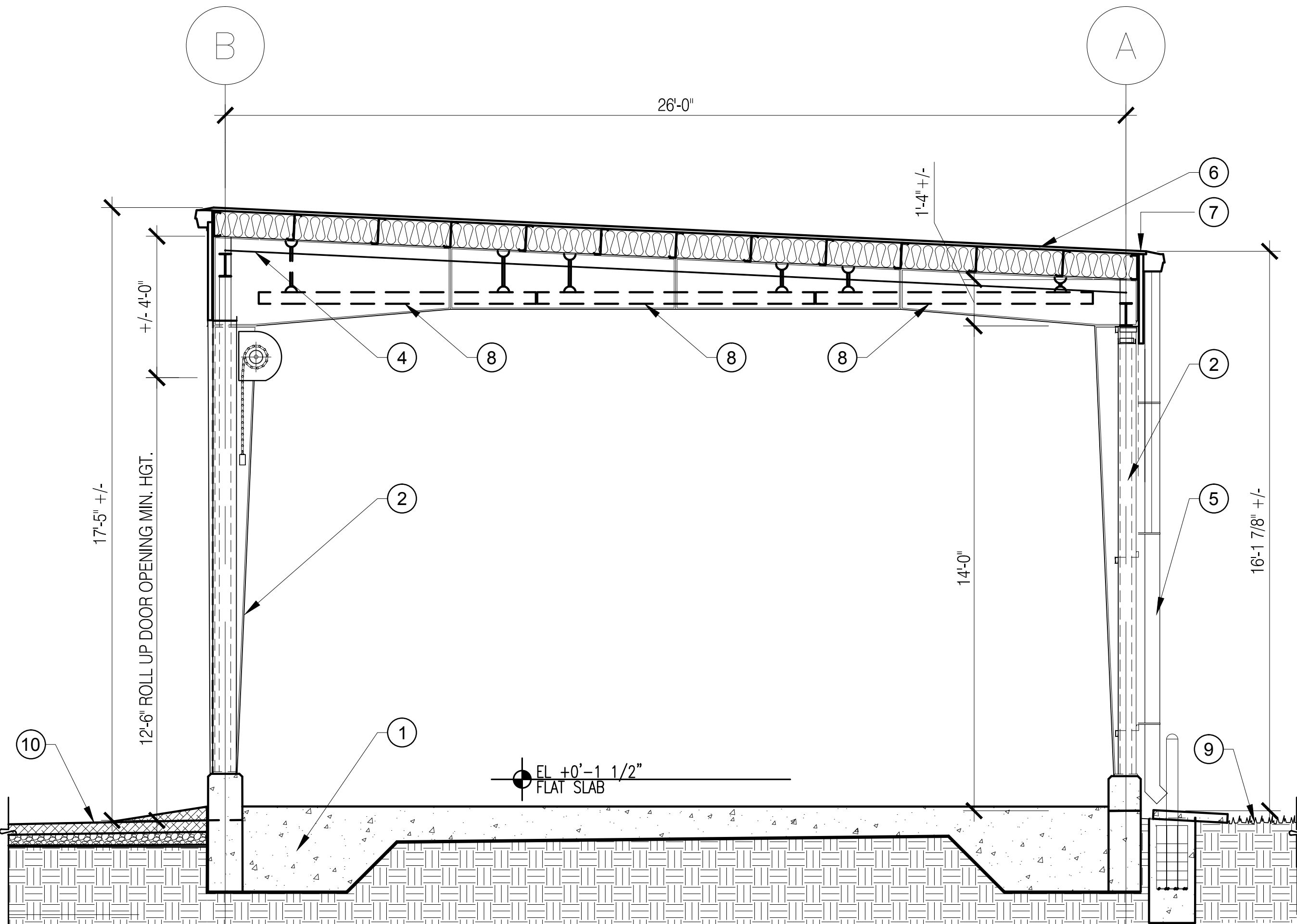
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BUILDING SECTION

A05.01



1 SECTION OF BAY - TYPICAL
SCALE 3/8" = 1'-0"



2 SECTION OF TOOL / GARAGE - TYPICAL
SCALE 3/8" = 1'-0"

KEY NOTE

- REINFORCED CONCRETE SLAB AND FOOTINGS ON TERMITE TREATED, COMPACTED FILL. SEE STRUCTURAL ENGINEERING FOR FOUNDATION DESIGN AND DETAILS. SLOPE 1/8" PER FOOT AS INDICATED.
- PRE-ENGINEERED METAL BUILDING AND WALL PANELS BY METAL BUILDING MANUFACTURER.
- PRE-ENGINEERED STEEL COLUMN AND BEARING PLATE ON FOOTING/PIER. RAISE PIER ABOVE FINISH SLAB ELEVATION TO ELEVATE STEEL COLUMN AND PLATE ABOVE POTENTIAL WATER PONDING. REFER TO STRUCTURAL ENGINEERING.
- STEEL "X" BRACING IN UPPER 1/3 OF BEAM. SEE STRUCTURAL ENGINEERING.
- 24GA. GALVANIZED GUTTER SYSTEM WITH DOWNSPOUTS BY METAL BUILDING MANUFACTURER. PAINT TO MATCH BUILDING.
- GALVALUME STANDING SEAM ROOF SHOP PAINTED WHITE.
- ROOF SLIDING CLIPS BY BUILDING MANUFACTURER.
- TYPICAL LIGHT FIXTURE. MOUNT TO CLEAR "X" BRACING/STRUCTURE. SEE M.E.P. ENGINEERING.
- EXISTING EARTH, PATCH AND REPLACE GRASS AS REQUIRED.
- NEW ASPHALT, REFER TO CIVIL DRAWINGS FOR GRADING.
- FULL HEIGHT CHAIN-LINK FENCING WITH BLACK-OUT FABRIC SCREENING ALONG THE BACK OF EACH BAY, REFER TO ELEVATIONS.

SHEET NOTES

- NEW PRE-ENGINEERED METAL BUILDING WITH 3 - 24'-0" X 26'-0" BAYS. BUILDING BY METAL BUILDING MANUFACTURER
- CONCRETE SLAB FOR PRE-ENGINEERED BUILDING: 8" THICK REINFORCED CONCRETE SLAB WITH CONTROL JOINTS AND BEARING PADS AS REQUIRED. SEE STRUCTURAL ENGINEERING DRAWINGS.
- INSTALL CONCRETE FILLED BOLLARDS TO PROTECT COLUMNS

Issue	Date & Issue Description	Drawn By	Checked By
11.09.16	60% CD SET	JS	KA
01.24.17	90% CD SET	JS	KA
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09.26.17	CODE COMMENTS	JS	KA
11.10.17	CONSTRUCTION SET	JS	KA

Project Number	Issue Date
16053	11/10/2017
Drawn By	Project Status
JS	CONSTRUCTION SET
Checked By	Scale
KA	1/4"=1'-0"

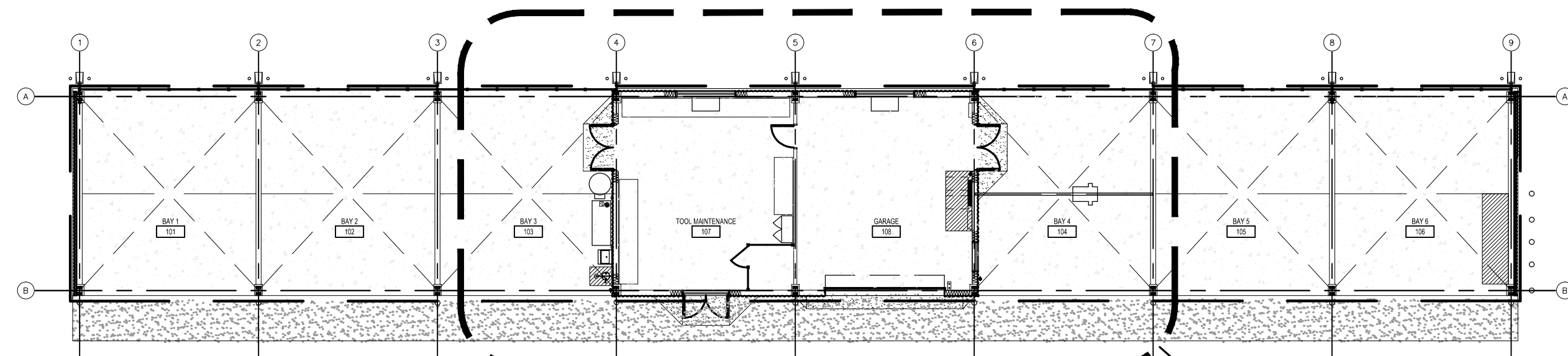
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Consultant • Seal/Signature

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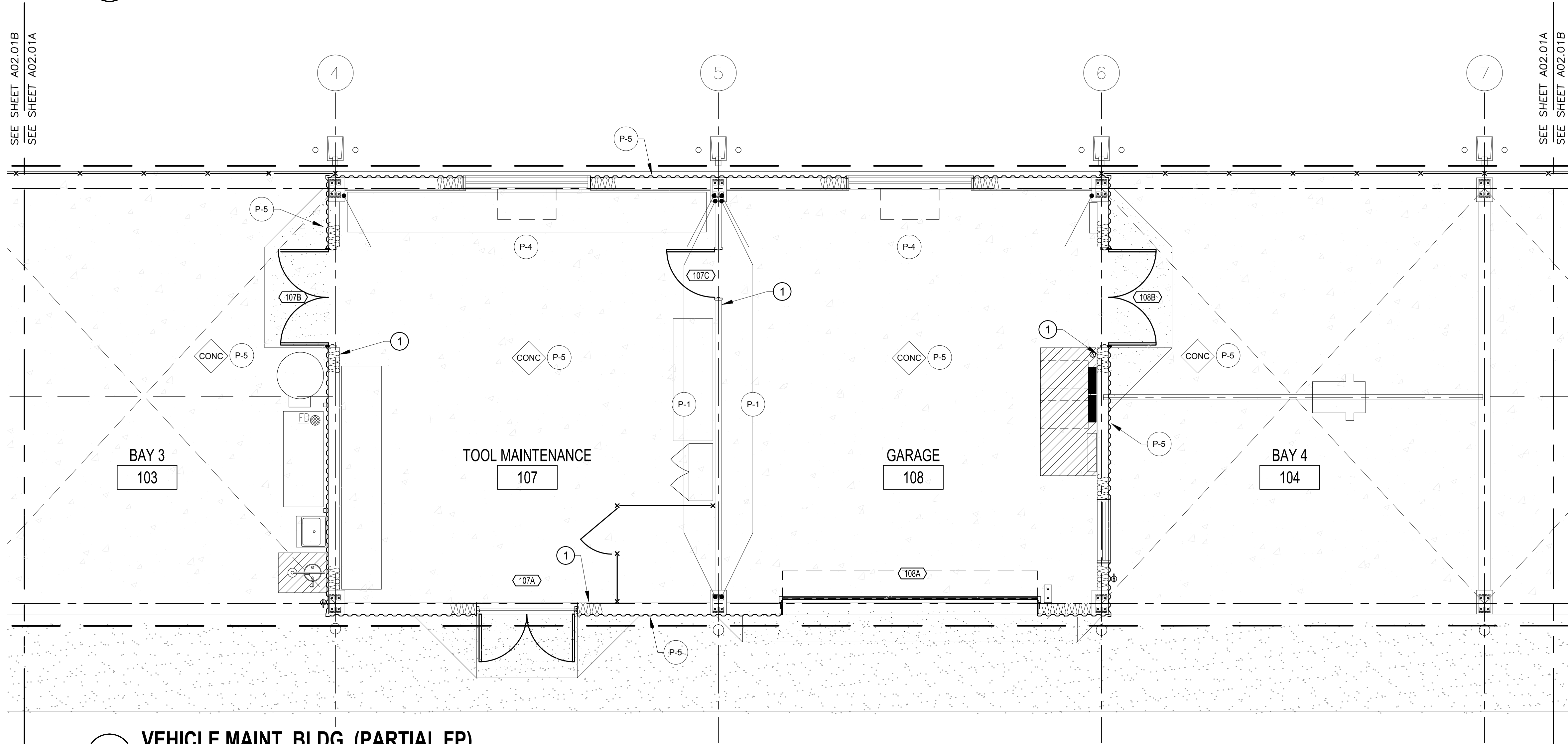
FINISH PLAN

A06.01



1 OVERALL FLOOR PLAN

SCALE 1/16" = 1'-0"



2 VEHICLE MAINT. BLDG. (PARTIAL FP)

SCALE 1/4" = 1'-0"

ROOM FINISH SCHEDULE

ROOM FINISH SCHEDULE																								
ROOM NO.	ROOM NAME	FLOOR			BASE			NORTH WALL			EAST WALL			SOUTH WALL			WEST WALL			CEILING				REMARKS
		MATERIAL	FINISH	CODE	MATERIAL	FINISH	CODE	MATERIAL	FINISH	CODE	MATERIAL	FINISH	CODE	MATERIAL	FINISH	CODE	MATERIAL	FINISH	CODE	MATERIAL	FINISH	HEIGHT	CODE	
110	TOOL/MAINTENANCE	CONCRETE	SEALED	N/A	N/A	N/A	N/A	FR. PLY	PAINT	P-4	GWB	PAINT	P-1	INSULATION	N/A	N/A	INSULATION	N/A	N/A	INSULATION	EXPOSED	VARIES	N/A	
111	GARAGE/WORKSHOP	CONCRETE	SEALED	N/A	N/A	N/A	N/A	FR. PLY	PAINT	P-4	INSULATION	N/A	N/A	INSULATION	N/A	N/A	GWB	PAINT	P-1	INSULATION	EXPOSED	VARIES	N/A	
-	6 OPEN BAYS	CONCRETE	SEALED		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	EXPOSED	VARIES	N/A	P-5

KEY NOTES

- 1 INSTALL 6" X 9" TACTILE "EXIT" SIGNAGE WITH BRAILLE CHARACTERS AT ALL EXIT DOORS. REFER TO SHEET A00.40 FOR MOUNTING HEIGHTS.

FINISH CODE

FINISH CODE									
CODE	DESCRIPTION (PROVIDED MATERIAL NOTED OR APPROVED EQUAL)								
P-1	SEE SPECIFICATIONS SECTION 09900, INTERIOR PAINT MANUFACTURE, GLIDDEN COLOR: TOASTY GREY 30YY51/098								
P-4	PAINT TO MATCH COLOR OF EXTERIOR MTL. PANELS								
P-5	PAINT ALL EXPOSED METAL BUILDING STRUCTURE COLOR TO BE SELECTED BY ORANGE COUNTY PUBLIC WORKS								
FF	FACTORY FINISH								

Project Documents for:

ORANGE COUNTY FLORIDA

Project:
BITHLO VEHICLE MAINTENANCE BUILDING
18715 OLD CHENEY HIGHWAY
ORLANDO, FL 32820

Issue	Date & Issue Description	Drawn By	Checked By
11.09.16	60% CD SET	JS	KA
01.24.17	90% CD SET	JS	KA
03.08.17	PERMIT ISSUE SET	JS	KA
09.26.17	CODE COMMENTS	JS	KA
11.10.17	CONSTRUCTION SET	JS	KA

• SPACE PLANNING
• INTERIOR DESIGN
• PLANNING
• ARCHITECTURE

Client Information
ORANGE COUNTY CAPITAL PROJECTS DIVISION
400 E SOUTH STREET
ORLANDO, FL 32801

Project Number 16053	Issue Date 11/10/2017
Drawn By JS	Project Status CONSTRUCTION SET
Checked By KA	Scale AS INDICATED

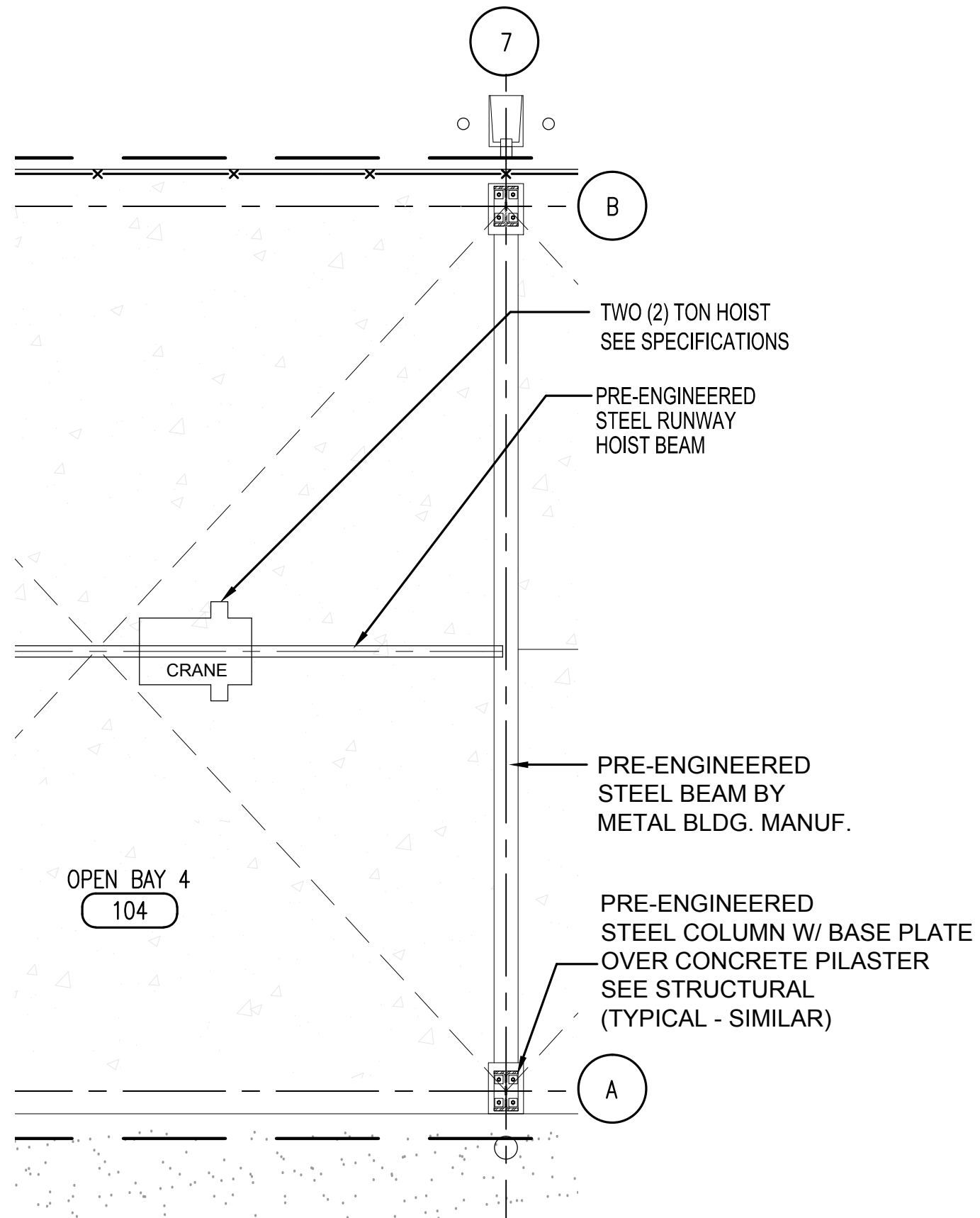
File Name
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Consultant • Seal/Signature

Sheet Title:

WALL TYPES & DETAILS

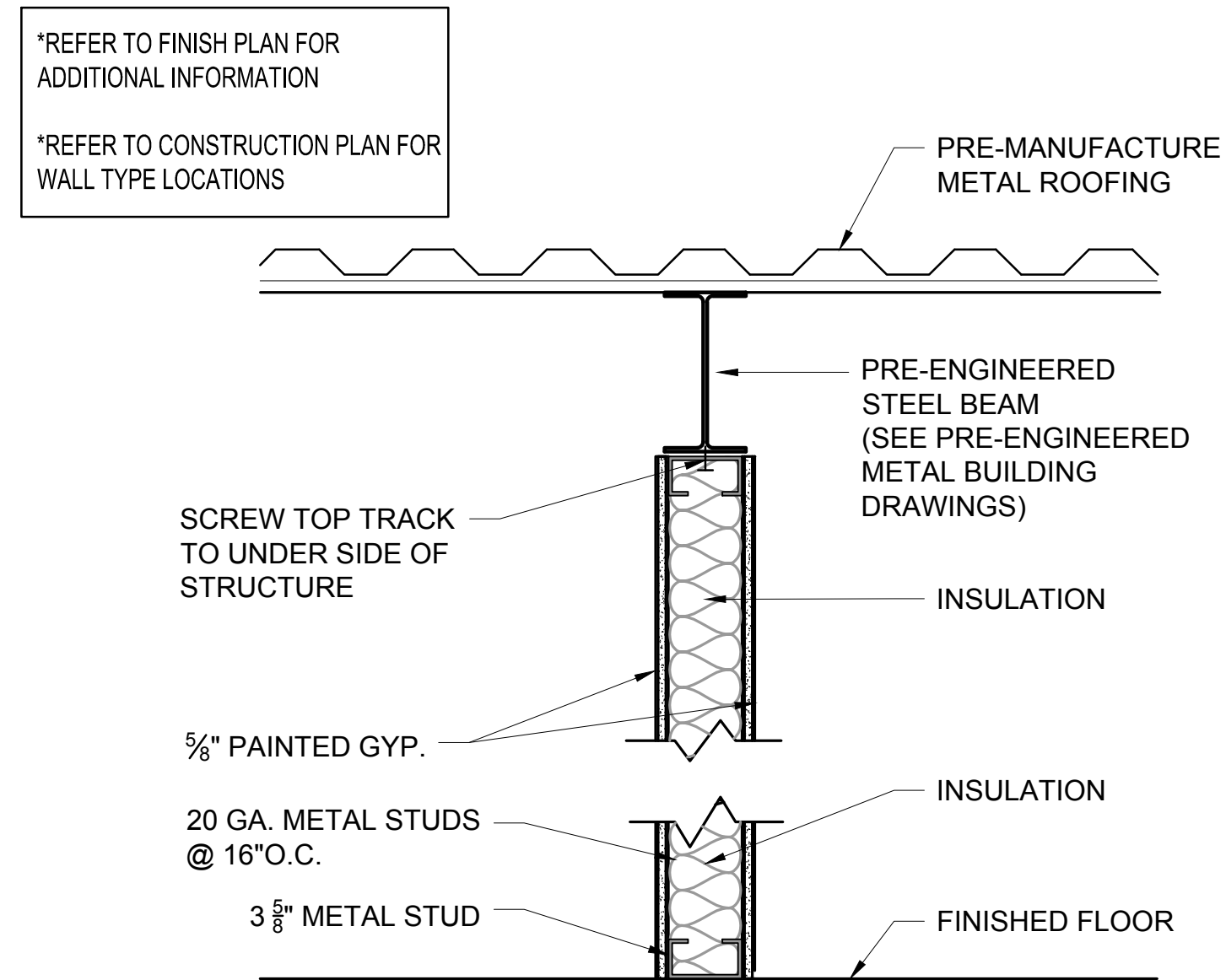
A12.01



HOIST DETAIL

SCALE: 1" = 1'-0"

1

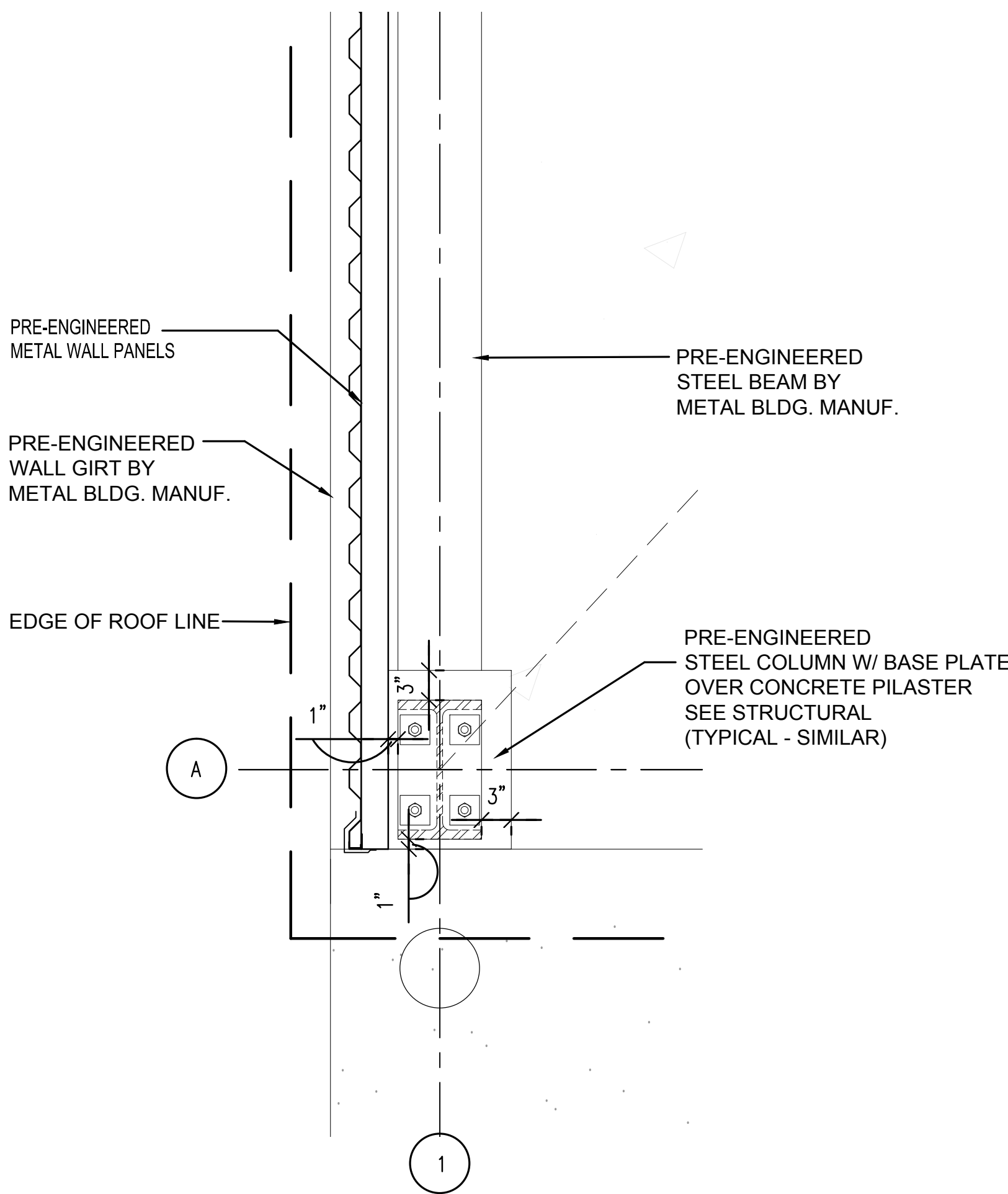


WALL TYPE B - INTERIOR

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

DT_WA

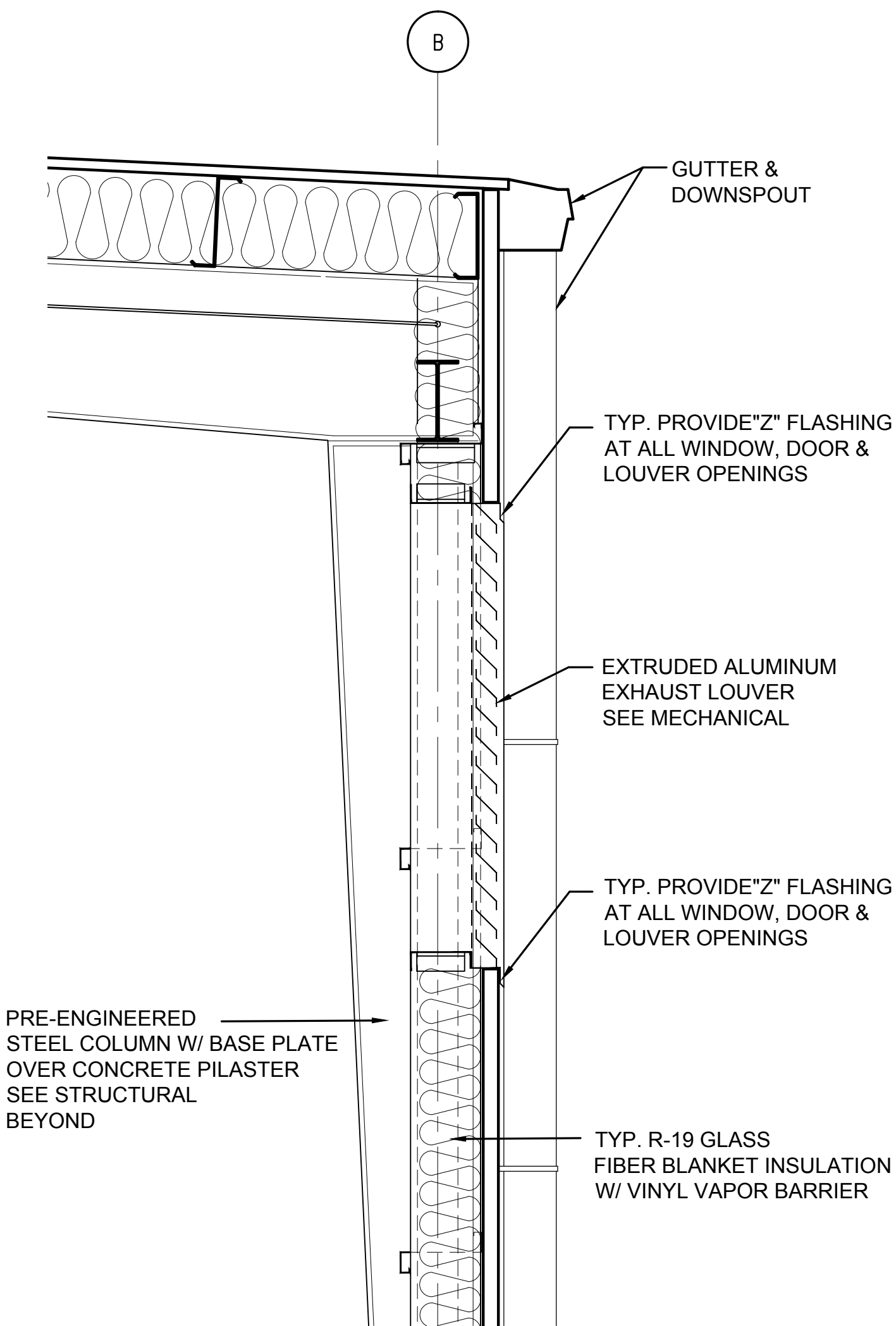
3



WALL TYPE A - END WALL DETAIL

SCALE: 1" = 1'-0"

2



WALL TYPE C - LOUVER DETAIL

SCALE: 1" = 1'-0"

4

PRINTED ON: Nov 10, 2017 - 4:24pm

FLOOR DRAIN SCHEDULE			
MARK	BODY	GRATE OR STRAINER	MANUFACTURER
FD-1	CAST IRON	6" NICKEL BRONZE, ROUND	J.R. SMITH #2005-A06-NB WATTS #FD-100-A6 ZURN #ZN-415-6B

FLOOR DRAIN NOTES:
1. FURNISH ALL NEW FLOOR DRAINS WITH TRAP PRIMER VALVE OR OTHER CODE APPROVED PROTECTION DEVICES.
2. FURNISH ALL FLOOR DRAINS WITH TRAP SAME SIZE AS BRANCH LINE. REFER TO PLANS FOR CONNECTION SIZES.
3. PROVIDE ALL DRAINS WITH WIDE ANCHOR FLANGE AND CLAMPING DEVICE. ATTACH DRAINS TO MEMBRANE IN FLOOR. WHEN DRAINS ARE LOCATED IN NON-MEMBRANE FLOORS, THEY SHALL BE FLASHED IN COMPLIANCE WITH THE SPECIFICATIONS.
4. ALL FLOOR DRAINS SHALL BE INSTALLED WITH THE GRATE FLUSH TO FINISHED FLOOR.

PRIMARY TRAP SEAL PROTECTION DEVICE SCHEDULE			
PIPE SIZE	PIPE MATERIAL	INSTALLATION TYPE	MANUFACTURER
2"	PVC OR C.I.	F.D. OUTLET	J.R. SMITH #2698; ZURN #1021; SIOUX CHIEF #200-092
3"	PVC OR C.I.	F.D. OUTLET	J.R. SMITH #2698; ZURN #1021; SIOUX CHIEF #200-092
4"	PVC OR C.I.	F.D. OUTLET	J.R. SMITH #2698; ZURN #1021; SIOUX CHIEF #200-092

TRAP SEAL PROTECTION DEVICE NOTES:
1. INSTALL IN ALL NEW FLOOR DRAINS.
2. SIZE AND INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

SECONDARY TRAP SEAL PROTECTION DEVICE SCHEDULE			
PIPE SIZE	PIPE MATERIAL	INSTALLATION TYPE	MANUFACTURER
2"	PVC OR C.I.	F.D. OUTLET	J.R. SMITH #2692.02; PROSET #TG22G; SURESEAL #SS2009
3"	PVC OR C.I.	F.D. OUTLET	J.R. SMITH #2692.02; PROSET #TG33G; SURESEAL #SS3000
4"	PVC OR C.I.	F.D. OUTLET	J.R. SMITH #2692.02; PROSET #TG34G; SURESEAL #SS4009

TRAP SEAL PROTECTION DEVICE NOTES:
1. INSTALL IN ALL NEW FLOOR DRAINS AS SECONDARY PROTECTION. INSTALL IN ALL EXISTING FLOOR DRAINS AS SECONDARY PROTECTION.
2. SIZE AND INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

AIR COMPRESSOR SCHEDULE									
MARK #	LOCATED ON DRAWING #	M.F.G. OR APPROVED EQUAL	MODEL NO.	CFM IN CONTINUOUS DUTY	DISCHARGE PSI	STORAGE (GAL.)	VOLTAGE	MOTOR H.P.	REMARKS
AC-1	P3.3	INGERSOLL RAND	TYPE 30, 2475N5-V	18.5	125	80	208V-1-60	5	PROVIDE FILTER, REGULATOR AND VIBRATION ISOLATION BETWEEN FEET AND SLAB.

ADDITIONAL ACCEPTABLE MANUFACTURERS – EQUIPMENT BY OTHER MANUFACTURERS WILL BE CONSIDERED PROVIDED ALL REQUIREMENTS OF DESCRIPTION AND INTENT OF THE SPECIFICATIONS ARE MET. IT IS THE CONTRACTOR RESPONSIBILITY TO PROVIDE ALL DOCUMENTATION INDICATING EQUALITY TO BASIS OF DESIGN EQUIPMENT AND FIXTURES SCHEDULED ABOVE. FINAL DETERMINATION OF EQUALITY SHALL BE BY ENGINEER OR OWNER.

CLEANOUT SCHEDULE		
MARK	APPLICATION	MANUFACTURER
FCO	FINISHED FLOORS	J.R. SMITH #4033L; WATTS #CO-200-R; ZURN #ZN-1400
	FINISHED FLOORS, HEAVY DUTY	J.R. SMITH #4113L; WATTS #CO-200-RX; ZURN #ZN-1400-HD
	TILE AREAS	J.R. SMITH #4153L; WATTS #CO-200-T; ZURN #ZN-1400-X
	TERRAZZO AREAS	J.R. SMITH #4193L; WATTS #CO-200-U; ZURN #ZN-1400-Z
	CARPETED AREAS	J.R. SMITH #4033L-Y; WATTS #CO-200-RC; ZURN #Z-1400-HD
CO/WCO	UNFINISHED AREAS	J.R. SMITH #4113L; WATTS #CO-200-RX; ZURN #Z-1400-HD
	LINE CLEANOUTS	J.R. SMITH #4472T; WATTS #CO-590-RD; ZURN #Z-1468
ECO	STACK CLEANOUTS	J.R. SMITH #4532S; WATTS #CO-460-RD; ZURN #Z-1446
	OUTSIDE AREAS	J.R. SMITH #4113L; WATTS #CO-200-RX; ZURN #Z-1400-HD

NOTES:
1. INSTALL ECO IN 24"x24"x4" THICK CONCRETE PAD. TOP OF PAD ELEVATION TO BE 2" ABOVE FINISHED GRADE.
2. PROVIDE ALL CLEANOUTS WITH WIDE ANCHOR FLANGE & CLAMPING DEVICE. ATTACH CLEANOUTS TO MEMBRANE IN FLOOR. WHEN CLEANOUTS ARE LOCATED IN NON-MEMBRANE FLOORS, THEY SHALL BE FLASHED IN COMPLIANCE WITH THE SPECIFICATIONS.
3. PROVIDE LINE & STACK TYPE WALL CLEANOUTS WITH ACCESS COVERS.

WATER HAMMER ARRESTOR SCHEDULE			
PIPE SIZE	PDI SIZE	FIXTURE UNIT RANGE	MANUFACTURER
1/2"	A	1-11	SIOUX CHIEF HYDRA-RESTER #652-A OR APPROVED EQUAL
3/4"	B	12-32	SIOUX CHIEF HYDRA-RESTER #653-B OR APPROVED EQUAL
1"	C	33-60	SIOUX CHIEF HYDRA-RESTER #654-C OR APPROVED EQUAL
1-1/4"	D	61-113	SIOUX CHIEF HYDRA-RESTER #655-D OR APPROVED EQUAL
1-1/2"	E	114-154	SIOUX CHIEF HYDRA-RESTER #656-E OR APPROVED EQUAL
2"	F	155-330	SIOUX CHIEF HYDRA-RESTER #657-F OR APPROVED EQUAL

WATER HAMMER ARRESTOR NOTES:
1. AIR CHAMBERS ARE NOT AN ACCEPTABLE EQUAL TO WATER HAMMER ARRESTORS AND SHALL NOT BE INSTALLED.
2. SIZE AND INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

PLUMBING FIXTURE SCHEDULE						
MARK	FIXTURE	SOIL	WASTE	VENT	HW	CW
AC	AIR COMPRESSOR	---	---	---	---	---
CAD	COMPRESSED AIR DROP	---	---	---	---	---
ES/CW	COMBINATION EMERGENCY SHOWER AND EYEWASH UNIT	---	1 1/4"	2"	---	1/2"
HB	WALL MOUNTED HOSE BIBB	---	---	---	---	3/4"
IM	ICE MACHINE WITH WATER FILTRATION	---	2"	---	---	1/2"
JS	JANITOR'S SINK	---	3"	2"	3/4"	3/4"
OWS	ABOVEGROUND OIL/WATER SEPARATOR	---	2"	2"	---	---

PLUMBING FIXTURE NOTES:
1. REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS OF ALL FIXTURES.
2. PROVIDE LISTED MANUFACTURER OR APPROVED EQUAL.

ABBREVIATIONS		LEGEND	
CW	COLD WATER	---	SOIL OR WASTE LINE (BELOW GRADE)
HW	HOT WATER	---	SOIL OR WASTE LINE (ABOVE GRADE)
DWV	HOT WATER RETURN DRAIN, WASTE, AND VENT	FM	FORCE MAIN LINE (BELOW GRADE)
W	WASTE	FM	FORCE MAIN LINE (ABOVE GRADE)
GW	GREASE WASTE	CD	CONDENSATE DRAIN PIPING
FM	FORCE MAIN	GW	GREASE WASTE PIPING (BELOW GRADE)
COND.	CONDENSATE	---	VENT PIPING
V	VENT	ST	STORM DRAIN LINE (BELOW GRADE)
VTR	VENT THRU ROOF	ST	STORM DRAIN LINE (ABOVE GRADE)
CO	CLEANOUT	STO	OVERFLOW STORM DRAIN (ABOVE GRADE)
WCO	WALL CLEANOUT	---	DOMESTIC COLD WATER PIPING
FCO	FLOOR CLEANOUT	---	HOT WATER PIPING
ECO	EXTERIOR CLEANOUT (GRADE)	---	HOT WATER RETURN PIPING
B.V.	BALANCING VALVE	---	TRAP
AB	ABOVE	---	EXTERIOR CLEANOUT (ECO)
DN	DOWN	---	CLEANOUT (CO/WCO)
CLG.	CEILING	---	FLOOR CLEANOUT (FCO)
O/H	OVERHEAD	---	TWO PIECE, FULL PORT BALL VALVE
MIN.	MINIMUM	---	SWING CHECK VALVE
C.P.	CHROME PLATED	---	VERTICAL SHUT-OFF VALVE (GATE)
S.S.	STAINLESS STEEL	---	CALIBRATED BALANCING VALVE
SL	SLOPE	---	CIRCULATOR PUMP (VERTICAL)
GA	GAUGE	---	
B.LDS.	BUILDING	---	
CONNL	CONNECTION	---	
A.H.A.P.	AS HIGH AS POSSIBLE	---	
A.F.F.	ABOVE FINISHED FLOOR	---	
B.F.F.	BELOW FINISHED FLOOR	---	
F.F.E.	FINISHED FLOOR ELEVATION	---	
I.E.	INVERT ELEVATION	---	
FD	FLOOR DRAIN	---	
AD	AREA DRAIN	---	
FS	FLOOR SINK	---	
RD	ROOF DRAIN	---	
CD	CONDENSATE DRAIN	---	
CR	CONDENSATE RECEPTOR	---	
HB	HOSE BIBB	---	

INDICATES RISER/DETAIL NUMBER, SHEET FOUND, AND RISER VIEW, (IF APPLICABLE)

GENERAL PLUMBING NOTES

- REFERENCE THE SPECIFICATIONS FOR MATERIALS AND EQUIPMENT STANDARDS.
- THE INSTALLATION OF THE PLUMBING SYSTEMS AND EQUIPMENT SHALL COMPLY WITH ALL APPLICABLE CODES INCLUDING BUT NOT LIMITED TO THE 2014 FLORIDA BUILDING CODE AND 2014 FLORIDA PLUMBING CODE.
- THE CONTRACTOR SHALL COORDINATE THE INTERRUPTION OF ALL UTILITY SERVICES WITH OWNER'S REPRESENTATIVE. PROVIDE A MINIMUM OF FIVE WORKING DAYS ADVANCED NOTICE (OR PER PLUMBING SPECIFICATIONS) OF SCHEDULED UTILITY DISCONNECTION.
- PLANS ARE NOT COMPLETELY TO SCALE. PIPE ROUTING SHOWN IS SCHEMATIC AND IS NOT INTENDED TO INDICATE EXACT LOCATION OF PIPING AND VALVES. CONTRACTOR SHALL PROVIDE ANY ADDITIONAL FITTINGS REQUIRED FOR PROPER INSTALLATION AND TO MAINTAIN PROPER CLEARANCES. COORDINATE WITH ALL TRADES AND OTHER POTENTIAL OBSTRUCTIONS AND ROUTE PIPING TO AVOID INTERFERENCES.
- CONCEAL PIPING ABOVE CEILINGS, WITHIN WALLS OR CHASES EXCEPT IN MECHANICAL ROOMS OR AS SPECIFICALLY NOTED.
- PERFORM FIRESTOPPING UNDER DIVISION 07 SECTION "FIRESTOPPING", AND AS DETAILED ON THE ARCHITECTURAL DRAWINGS.
- PROVIDE ACCESS PANELS TO ALL VALVES LOCATED WITHIN CHASES OR NON-ACCESSIBLE CEILINGS. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES. ALL VALVES SHALL BE ACCESSIBLE AND LABELED FOR SYSTEM SERVED.
- REFER TO ARCHITECTURAL DRAWINGS FOR FIXTURE LOCATIONS AND MOUNTING HEIGHTS.
- INSTALL CODE REQUIRED FIXED AIR GAPS ON ALL INDIRECT WASTE CONNECTIONS SERVING EQUIPMENT, AND APPLIANCES.
- PROVIDE CLEANOUTS ON ALL SANITARY DRAIN & WASTE, STORM DRAIN, AND CONDENSATE DRAIN PIPING AS INDICATED ON THE DRAWINGS, AND AS REQUIRED BY LOCAL AND STATE CODES. INSTALL CLEANOUTS IN ACCESSIBLE LOCATIONS. COORDINATE TOP OF FLOOR/GRADE CLEANOUT ELEVATION WITH TOP OF FINISHED GRADE.
- INSTALL HOSE BIBBS AND WALL HYDRANTS AT 18" ABOVE FINISHED FLOOR OR FINISHED GRADE.
- ALL FLOOR DRAINS SHALL BE INSTALLED WITH TRAP SEAL PROTECTION DEVICES. ALL FLOOR DRAINS SHALL BE INSTALLED WITH GRATES FLUSH TO THE FINISHED FLOOR.
- UNLESS NOTED OTHERWISE, SLOPE ALL SANITARY DWV, STORM DRAIN, AND CONDENSATE DRAIN PIPING 3" PIPE SIZE & LARGER A MINIMUM OF 1/8" PER FT. OF RUN, AND 2-1/2" PIPE SIZE AND SMALLER A MINIMUM 1/4" PER FT. OF RUN. SLOPE VENT PIPING DOWN & BACK TO FIXTURES.
- EACH PLUMBING VENT SHALL TERMINATE NOT LESS THAN 10 FT. FROM, OR AT LEAST 3 FT. ABOVE ANY WINDOW, DOOR, OPENING, AIR INTAKE, OR VENT SHAFT.
- PROVIDE WATER HAMMER ARRESTORS AT ALL PLUMBING FIXTURES OR BATTERY OF FIXTURES WITH QUICK-CLOSING VALVES. WATER HAMMER ARRESTORS SHALL BE SIZED PER PDI STANDARDS. AIR CHAMBERS SHALL NOT BE CONSIDERED AN EQUAL TO WATER HAMMER ARRESTORS AND SHALL NOT BE INSTALLED.
- WATER SERVICE PIPE AND THE BUILDING SEWER SHALL BE SEPARATED BY 5 FEET OF UNDISTURBED OR COMPACTED EARTH. THE REQUIRED SEPARATION DISTANCE SHALL NOT APPLY WHERE THE BOTTOM OF THE WATER SERVICE PIPE WITHIN 5 FEET OF THE SEWER IS A MINIMUM OF 12 INCHES ABOVE THE TOP OF THE HIGHEST POINT OF THE SEWER AND THE PIPE MATERIALS CONFORM TO APPLICABLE PLUMBING CODES.
- UNLESS NOTED OTHERWISE, RUN CW & HW PIPING FULL SIZE THRU LENGTH OF CHASE, AND MAKE CONNECTIONS TO FIXTURES AS INDICATED IN THE PLUMBING FIXTURE SCHEDULE. PROVIDE RIGID SUPPORT AND BLOCKING IN CHASE FOR HEADER AND BRANCH PIPING, AND FOR FLUSH VALVES TO PREVENT ANY MOVEMENT.
- WATER PIPING SHALL NOT BE ROUTED OVER ANY ELECTRICAL OR COMMUNICATIONS ROOMS.
- PROVIDE CALIBRATED BALANCING VALVES WITH THREADED CONNECTIONS IN HOT WATER RETURN PIPING, AND BALANCE SYSTEM FOR PROPER OPERATION. REFER TO CIRCULATOR PUMP SCHEDULE.
- COORDINATE THE EXACT LOCATION OF FLOOR DRAINS WITH ARCHITECT PRIOR TO CONSTRUCTION.
- PROVIDE ALL NECESSARY VALVES, TRAPS, FLOW CONTROLS, FILTERS, BACKFLOW ASSEMBLIES, FAUCETS, STOPS, TAILPIECES, VACUUM BREAKERS, IF NOT FURNISHED WITH EQUIPMENT.
- CONTRACTOR SHALL ROUGH-IN ALL WASTES AND SUPPLIES TO ALL EQUIPMENT ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND MAKE FINAL CONNECTIONS.
- PROVIDE SUPPLY STOPS ON HOT AND COLD WATER PIPE SUPPLYING ALL FIXTURES AND EQUIPMENT.
- PROVIDE APPROVED CHROME PLATED TYPE VACUUM BREAKERS WHERE REQUIRED BY LOCAL CODES, AND AS INDICATED ON PLANS FOR NEW WORK.
- SUBMIT CORE-DRILL PLAN TO STRUCTURAL ENGINEER AND ARCHITECT FOR REVIEW PRIOR TO STARTING ANY WORK.
- PROVIDE DIELECTRIC UNIONS WHERE CONNECTIONS ARE MADE BETWEEN DISSIMILAR PIPE MATERIALS.
- SEE RISER DIAGRAMS FOR PIPE SIZES AND ROUTING NOT SHOWN ON PLANS.
- METERING AND SITE UTILITY CONNECTIONS SHALL BE PROVIDED ON SITE UTILITY DRAWINGS. ALL SERVICES SHOWN ON THIS SET OF PLANS TERMINATE 5'-0" FROM BUILDING, UNLESS SHOWN OTHERWISE ON DRAWINGS. PLUMBING CONTRACTOR SHALL MAKE FINAL CONNECTIONS TO SITE UTILITIES (INC. CLEANOUTS, INCREASES, BACKWATER VALVES, ETC.).
- PRESSURE REDUCING VALVES SHALL BE PROVIDED WHERE THE WATER PRESSURE EXCEEDS 80 PSI AT ANY PLUMBING FIXTURE. WATER VELOCITY SHALL NOT EXCEED 5 FEET PER SECOND.
- COORDINATE EXACT LOCATION OF FLOOR DRAINS AND CONDENSATE RECEPTORS FOR HVAC EQUIPMENT WITH MECHANICAL CONTRACTOR. CONDENSATE PIPING SHALL DISCHARGE INTO STORM SYSTEM.
- DO NOT PENETRATE WALL FOOTINGS WITH PIPING, COORDINATE WITH GENERAL CONTRACTOR TO DROP FOOTINGS AS REQUIRED TO CLEAR PLUMBING SERVICES WHERE ABSOLUTELY NECESSARY. ALL PIPING PENETRATING A BEARING WALL OR FOOTING MUST BE SLEEVED AND LOCATION APPROVED BY STRUCTURAL ENGINEER.
- IF THE INTENT OF THE INFORMATION SHOWN ON THESE DOCUMENTS IS NOT CLEAR, OR IS CAPABLE OF MORE THAN ONE INTERPRETATION, SUCH MATTERS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER IN WRITING BEFORE THE SUBMISSION OF BIDS, AND THE ARCHITECT/ENGINEER SHALL MAKE CORRECTION OR EXPLANATION IN WRITING.
- WHERE THE CONTRACTOR PROPOSES ALTERNATE SOLUTIONS, DIFFERENT ROUTINGS OF PIPING, DIFFERENT LOCATIONS OF EQUIPMENT, FIXTURES, ETC., THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL OF THE RAMIFICATIONS OF THE PROPOSED CHANGE THAT ARE NOT INCLUDED IN HIS PROPOSAL, BUT BECOME APPARENT AT A LATER DATE, AND SHALL BEAR THE CONSEQUENCES OF CORRECTING ANY AND ALL CONFLICTS, DEFICIENCIES OR OTHER PROBLEMS AT NO INCREASE IN COST OR INCREASE IN CONSTRUCTION TIME ALLOTTED.

ARCHITECTURAL DESIGN COLLABORATIVE

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STATE OF FLORIDA
ALBERT J. COOPER, R.A.
Architect • Seal/Signature

AA-C001315
AR-0010460

Project Documents for:

ORANGE COUNTY
FLORIDA

Project:
BITHLO VEHICLE MAINTENANCE BUILDING

18715 OLD CHENEY HIGHWAY
ORLANDO, FL 32820

Issue	Date & Issue Description	Drawn By	Checked By
	11.09.16	60% CD SET	MB JJB
	01.24.17	90% CD SET	MB JJB
	03.08.17	PERMIT ISSUE SET	MB JJB
	09.26.17	CODE COMMENTS	MB JJB
	11.10.17	CONSTRUCTION SET	MB JJB

Client Information

ORANGE COUNTY CAPITAL PROJECTS DIVISION
400 E SOUTH STREET
ORLANDO, FL 32801

Project Number

16053

Drawn By

Checked By

Issue Date

11/10/2017

Project Status

CONSTRUCTION SET

Scale

File Name

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Consultant • Seal/Signature

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SGM # 2016-056

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WILLIAM R. HAYGOOD-FL39503

Sheet Title:

PLUMBING SYMBOLS LEGEND AND GENERAL NOTES

P-001