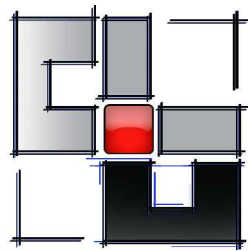




DESIGN DEVELOPMENT DRAWINGS FOR MANATEE COUNTY BUILDING OPERATION FACILITY



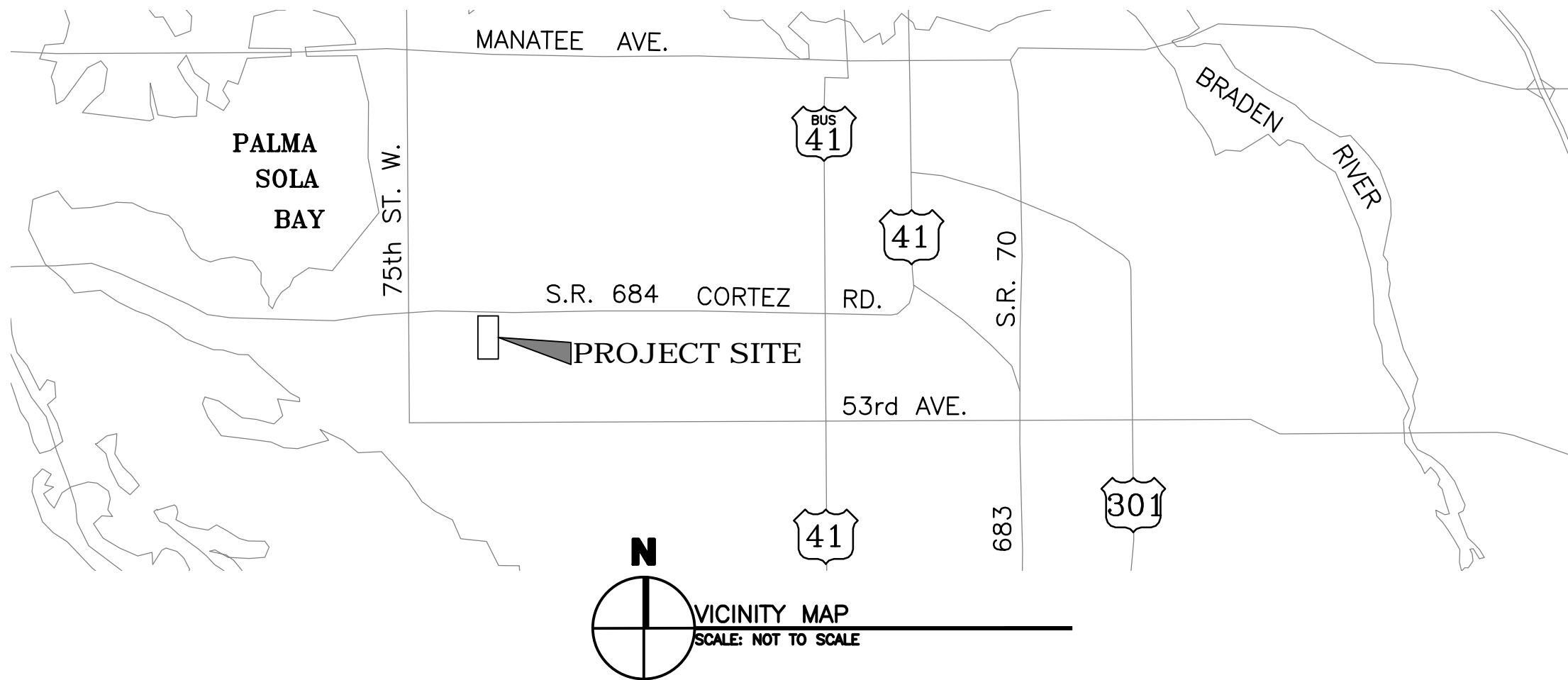
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& FIRE PROTECTION ENGINEERING
ATP ENGINEERING SOUTH, PL.
CONTACT: JOHN CAMDEN
ADDRESS: 5227 OFFICE PARK BLVD
BRADENTON, FLORIDA 34202
TEL: 941.751.6485
FAX: 941.751.6439



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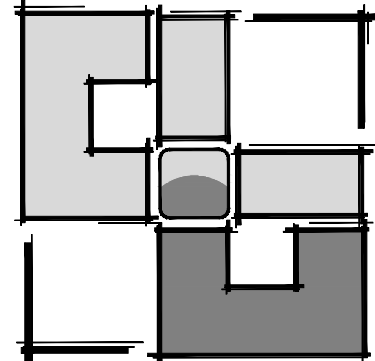
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-- AA-C001654 --

PROJECT COVER SHEET

MANATEE COUNTY BUILDING
OPERATION FACILITY

4410 66TH STREET WEST, BRADENTON FLORIDA

REVISIONS

PRELIMINARY
NOT FOR
CONSTRUCTION

PROJECT NO: 2012-46
DATE: 11/12/13
DRAWN BY: -
CHKD BY: -

CARLOS D. UGARTE
LIC. NO. AR-0010725

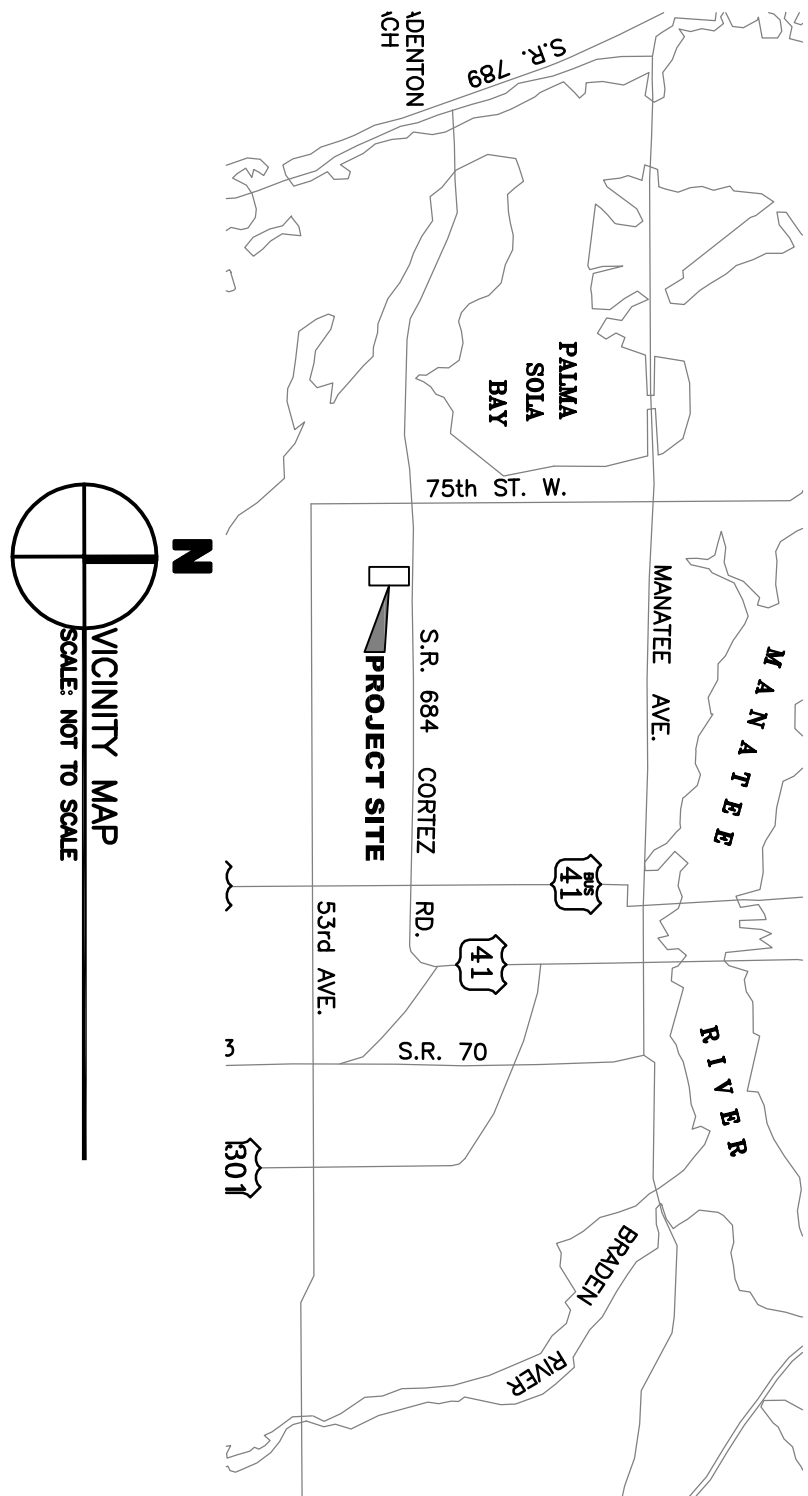
SHEET

A001

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DESIGN DEVELOPMENT DRAWINGS FOR MANATEE COUNTY BUILDING OPERATION FACILITY



ANNEX BUILDING

ANNEX BUILDINGS DRAWINGS NOMENCLATURE START WITH SHEET A#01

BUILDING CODE ANALYSIS - FBC 2010

MANATEE COUNTY	
PROJECT NAME: MANATEE COUNTY BUILDING OPERATION FACILITY – ANNEX BUILDING	BUILDING OCCUPANCY (CHAPTER 3): B
GENERAL BUILDING INFORMATION	BUILDING CONSTRUCTION TYPE (CHAPTER 6): IIB
SPRINKLER SYSTEM: YES	
BUILDING AREAS, BUILDING SIZE AND EGRESS REQUIREMENTS	
MAXIMUM ALLOWABLE FLOOR AREA/STORIES (TABLE 503): ###	
MAXIMUM ALLOWABLE BUILDING HEIGHT (TABLE 503): ###	
ACTUAL BUILDING HEIGHT AND NUMBER OF STORIES: ###	
COMPUTATION OF AREA MODIFICATIONS (SECTION 506): ###	
OCCUPANT LOAD (TABLE 1004.1.1): ###	GROSS FLOOR AREA ENTIRE BUILDING: ###
MINIMUM # OF EXITS REQUIRED (TABLE 1015.1): ###	GROSS FLOOR AREA PER FLOOR: ###
MAXIMUM TRAVEL DISTANCE (TABLE 1016.1): ###	L.F. NET FLOOR AREA ENTIRE BUILDING: ###
MAXIMUM COMMON PATH OF TRAVEL (1014.3): ###	L.F. NET FLOOR AREA PER FLOOR: ###
FIRE RESISTANCE RATING OF BUILDING COMPONENTS AND ELEMENTS PER TABLE 601:	
PARTY AND FIRE WALLS: ###	INTERIOR BEARING WALLS: ###
INTERIOR NON-LOAD BEARING WALLS: ###	COLUMNS: ###
BEAMS, GIRDERS, TRUSSES, ARCHES: ###	FLOOR, FLOOR/CEILING ASSEMBLIES: ###
ROOFS, ROOF/CEILING ASSEMBLIES: ###	EXTERIOR BEARING WALLS: ###
EXTERIOR NON-LOAD BEARING WALLS: ###	INTERIOR SEPARATION WALL: ###
REQUIRED SEPARATION FROM A COMMON OR ASSUMED PROPERTY LINE PER TABLE 602: ###	



FLORIDA ADMINISTRATIVE CODE 69A-3.012
PROVIDE SYMBOL TO CLEARLY DENOTE LIGHT-FRAME TRUSS-TYPE ON PROJECT. LOCATION OF SYMBOL IS TO BE WITHIN 24 INCHES OF THE LEFT OF THE MAIN ENTRY DOOR AND BETWEEN 4 TO 6 FEET OFF THE GROUND.

FIRE EXTINGUISHERS REQUIRED FOR PROJECT PER NFPA 10

ANNEX BUILDING

PRODUCT APPROVAL LIST					
APPROVAL No.	MANUFACTURER	PRODUCT CATEGORY	PRODUCT MODEL # or NAME	PRESSURE REGION PRESSURE	MAX SYSTEM PRESSURE
–	YKK AP	WINDOW	–	–	SEE STRUCTURAL
–	INGERSOLL-RAND	DOOR	–	–	SEE STRUCTURAL
–	–	METAL BLDG	–	–	SEE STRUCTURAL

OPERATIONS BUILDING

OPERATIONS BUILDINGS DRAWINGS NOMENCLATURE START WITH SHEET A#51

BUILDING CODE ANALYSIS - FBC 2010

MANATEE COUNTY	
PROJECT NAME: MANATEE COUNTY BUILDING OPERATION FACILITY – OPERATIONS BUILDING	BUILDING OCCUPANCY (CHAPTER 3): B
GENERAL BUILDING INFORMATION	BUILDING CONSTRUCTION TYPE (CHAPTER 6): IIB
SPRINKLER SYSTEM: YES	
BUILDING AREAS, BUILDING SIZE AND EGRESS REQUIREMENTS	
MAXIMUM ALLOWABLE FLOOR AREA/STORIES (TABLE 503): ###	
MAXIMUM ALLOWABLE BUILDING HEIGHT (TABLE 503): ###	
ACTUAL BUILDING HEIGHT AND NUMBER OF STORIES: ###	
COMPUTATION OF AREA MODIFICATIONS (SECTION 506): ###	
OCCUPANT LOAD (TABLE 1004.1.1): ###	GROSS FLOOR AREA ENTIRE BUILDING: ###
MINIMUM # OF EXITS REQUIRED (TABLE 1015.1): ###	GROSS FLOOR AREA PER FLOOR: ###
MAXIMUM TRAVEL DISTANCE (TABLE 1016.1): ###	L.F. NET FLOOR AREA ENTIRE BUILDING: ###
MAXIMUM COMMON PATH OF TRAVEL (1014.3): ###	L.F. NET FLOOR AREA PER FLOOR: ###
FIRE RESISTANCE RATING OF BUILDING COMPONENTS AND ELEMENTS PER TABLE 601:	
PARTY AND FIRE WALLS: ###	INTERIOR BEARING WALLS: ###
INTERIOR NON-LOAD BEARING WALLS: ###	COLUMNS: ###
BEAMS, GIRDERS, TRUSSES, ARCHES: ###	FLOOR, FLOOR/CEILING ASSEMBLIES: ###
ROOFS, ROOF/CEILING ASSEMBLIES: ###	EXTERIOR BEARING WALLS: ###
EXTERIOR NON-LOAD BEARING WALLS: ###	INTERIOR SEPARATION WALL: ###
REQUIRED SEPARATION FROM A COMMON OR ASSUMED PROPERTY LINE PER TABLE 602: ###	



FLORIDA ADMINISTRATIVE CODE 69A-3.012
PROVIDE SYMBOL TO CLEARLY DENOTE LIGHT-FRAME TRUSS-TYPE ON PROJECT. LOCATION OF SYMBOL IS TO BE WITHIN 24 INCHES OF THE LEFT OF THE MAIN ENTRY DOOR AND BETWEEN 4 TO 6 FEET OFF THE GROUND.

FIRE EXTINGUISHERS REQUIRED FOR PROJECT PER NFPA 10

OPERATIONS BUILDING

PRODUCT APPROVAL LIST					
APPROVAL No.	MANUFACTURER	PRODUCT CATEGORY	PRODUCT MODEL # or NAME	PRESSURE REGION PRESSURE	MAX SYSTEM PRESSURE
–	YKK AP	WINDOW	–	–	SEE STRUCTURAL
–	INGERSOLL-RAND	DOOR	–	–	SEE STRUCTURAL
–	–	METAL BLDG	–	–	SEE STRUCTURAL

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- 4. EROSION CONTROL AND DEMOLITION PLAN
- 5. EROSION CONTROL AND DEMOLITION PLAN DETAIL SHEET
- 6. FINAL SITE PLAN
- 7. ENGINEERING PLAN
- 8. CROSS SECTIONS
- 9. GENERAL DETAILS SHEET
- 10. GENERAL DETAILS SHEET
- 11. LANDSCAPE PLAN
- 12. LANDSCAPE DETAILS
- 13. IRRIGATION PLAN AND DETAILS

MECHANICAL

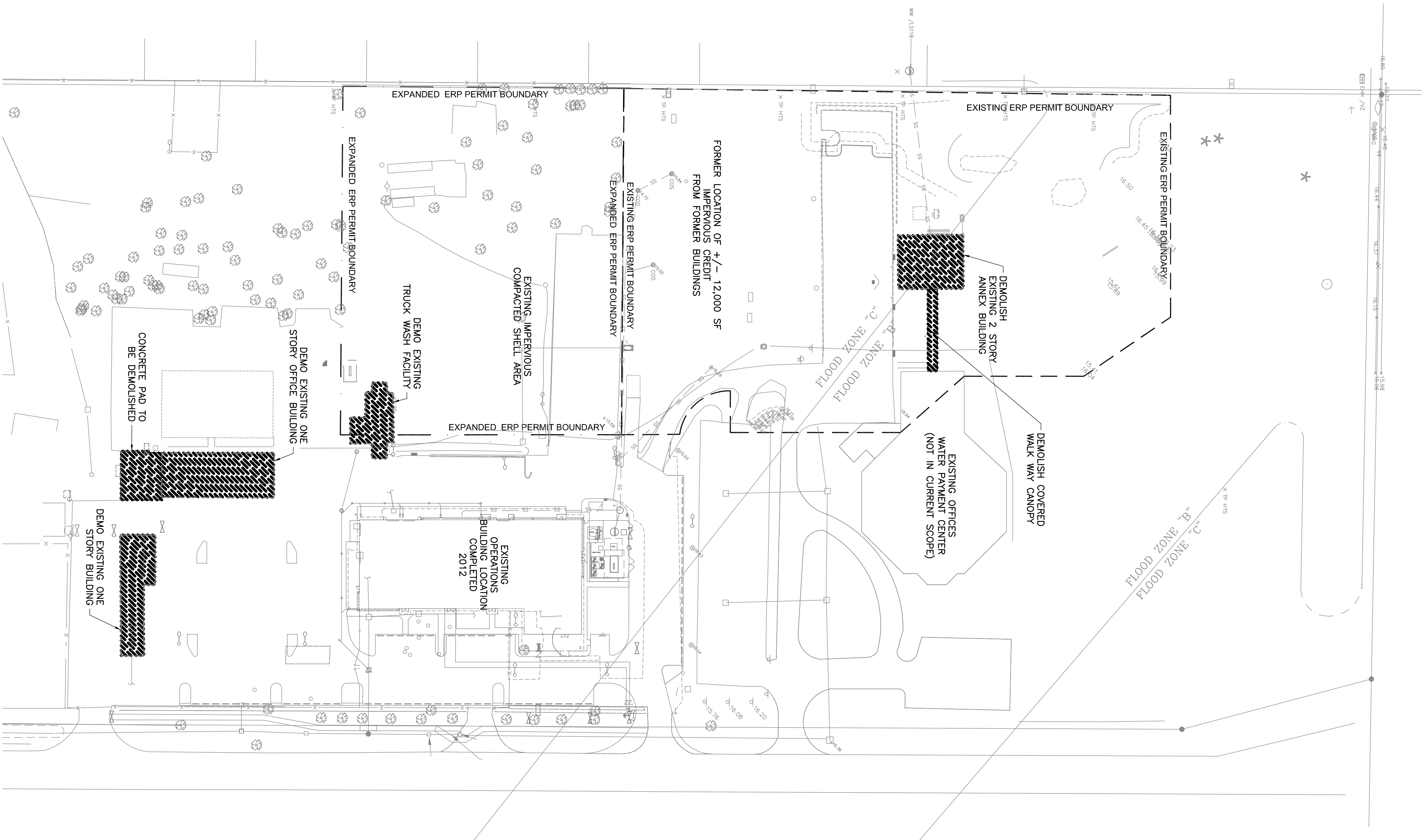
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- P254 PLUMBING DETAILS

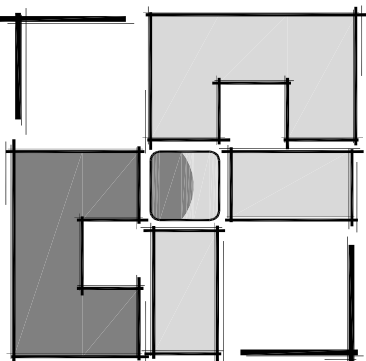
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- E203 ELECTRICAL POWER AND SYSTEMS PLAN
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- E253 ELECTRICAL POWER AND SYSTEMS PLAN
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- E255 ELECTRICAL ONE-LINE Riser DIAGRAM





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— AA-C001654 —

ANNEX BUILDING - LIFE SAFETY & ARCHITECTURAL SITE PLAN

MANATEE COUNTY BUILDING OPERATION FACILITY

4410 66TH STREET WEST, BRADENTON FLORIDA

REVISIONS

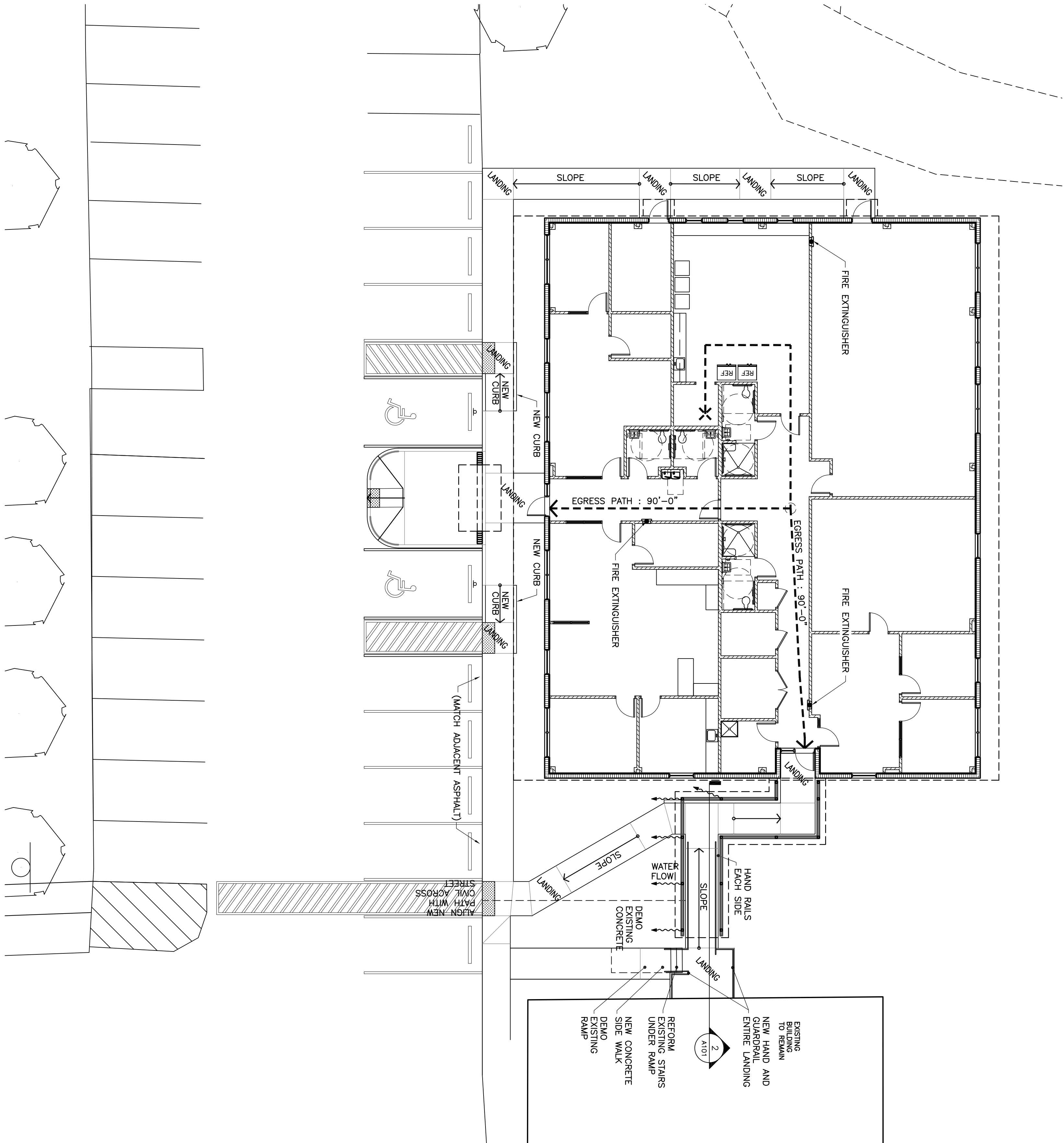
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DRAWN BY: -
CHKD BY: -

CARLOS D. UGARTE
LIC. NO. AR-0010725

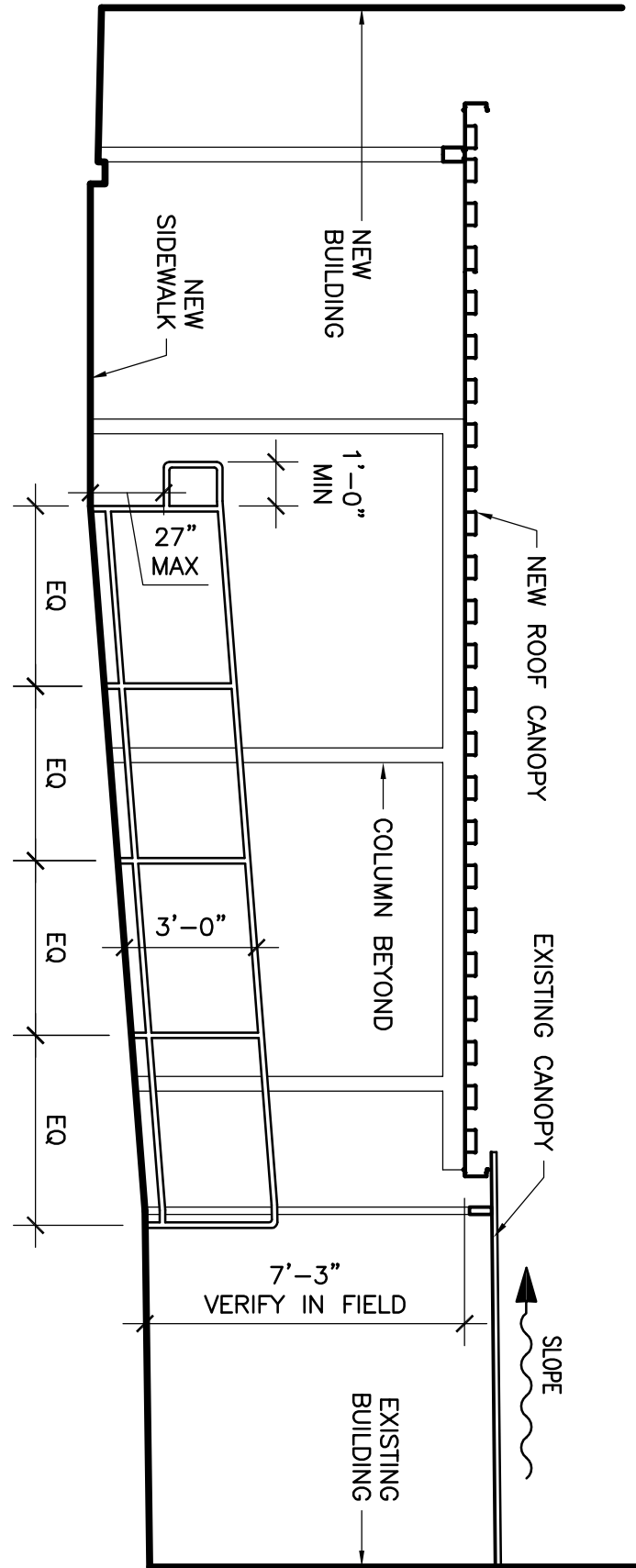
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NOT FOR
CONSTRUCTION**

SHEET

A101



2 CANOPY RAMP SECTION





WALL SCHEDULE	
TAG	DESCRIPTION
A	NEW EXTERIOR 8" CMU WALL WITH ROUGE INSULATION, PT 1X FLOORING STRIPS AT 24" OC AND 3" FINISH GYP BOARD. EXTERIOR FINISH TO BE CEMENTITIOUS FINISH. METAL BUILDING FINISH ABOVE. SEE BUILDING SECTIONS.
B	NEW INTERIOR WALL WITH 3/4" 2SG METAL STUDS @ 16" O.C., BLOCKING AS REQUIRED, WITH BATT SOUND-PROOFING AND 5/8" PAINTED GYP FINISH EACH SIDE. COORDINATE WITH OWNER ON FINISHES. (TYPICAL) (USE 20G METAL STUDS AND 3" CEMENT BOARD FOR ALL WALL TILE BACKING)
C	NEW INTERIOR WALL WITH 6" 20G METAL STUDS @ 16" O.C., BLOCKING AS REQUIRED, WITH BATT SOUND-PROOFING AND 5/8" PAINTED GYP FINISH EACH SIDE. COORDINATE WITH OWNER ON FINISHES. (TYPICAL) (USE 20G METAL STUDS AND 3" CEMENT BOARD FOR ALL WALL TILE BACKING)

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MANATEE COUNTY BUILDING
OPERATION FACILITY

4410 66TH STREET WEST, BRADENTON FLORIDA

ANNEX BUILDING -
FLOOR PLAN

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— AA-C001654 —

REVISIONS

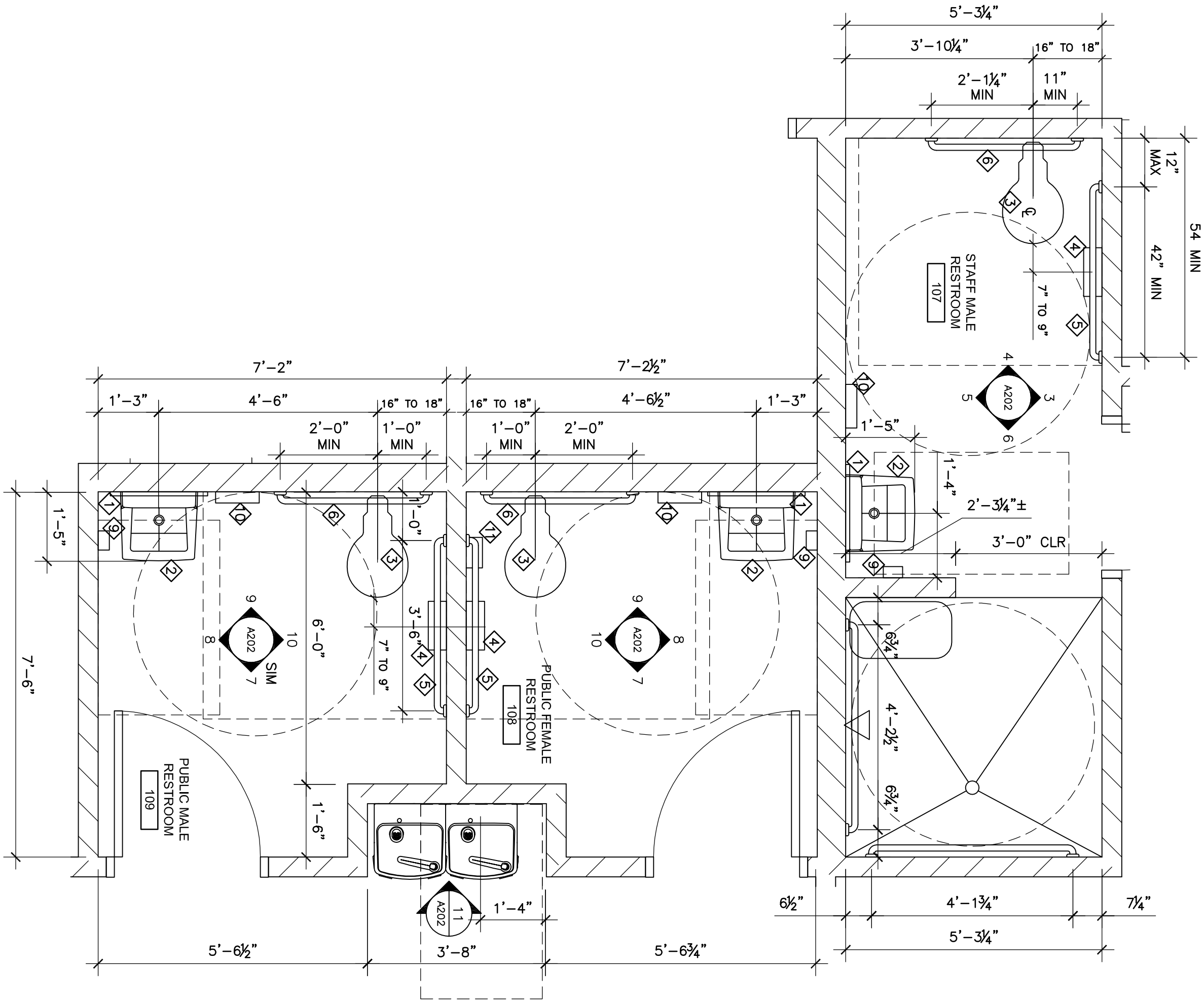
PROJECT NO: 2012-46
DATE: 11/12/13
DRAWN BY: :
CHKD BY: :

CARLOS D. UGARTE
LIC. NO. AR-0010725

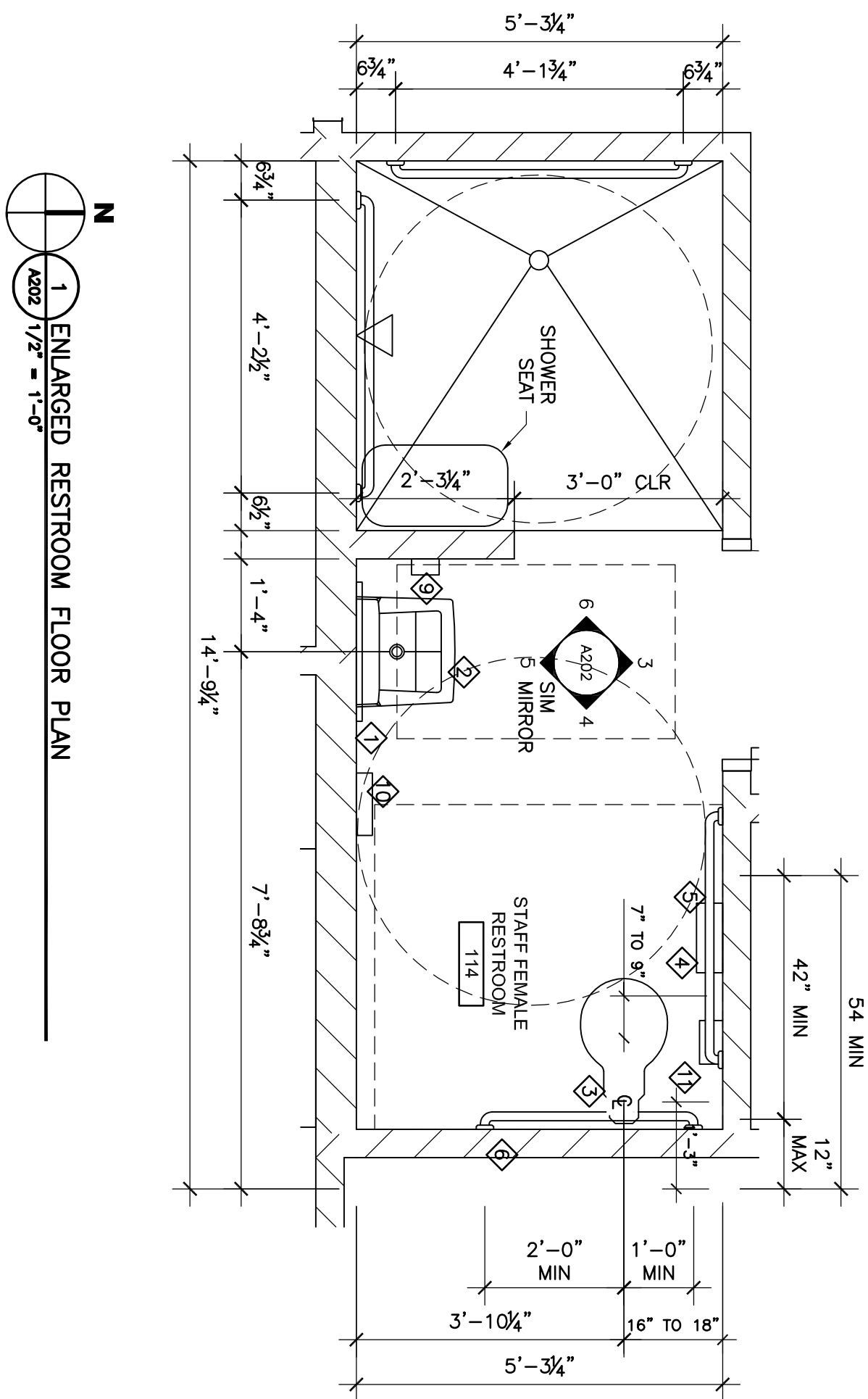
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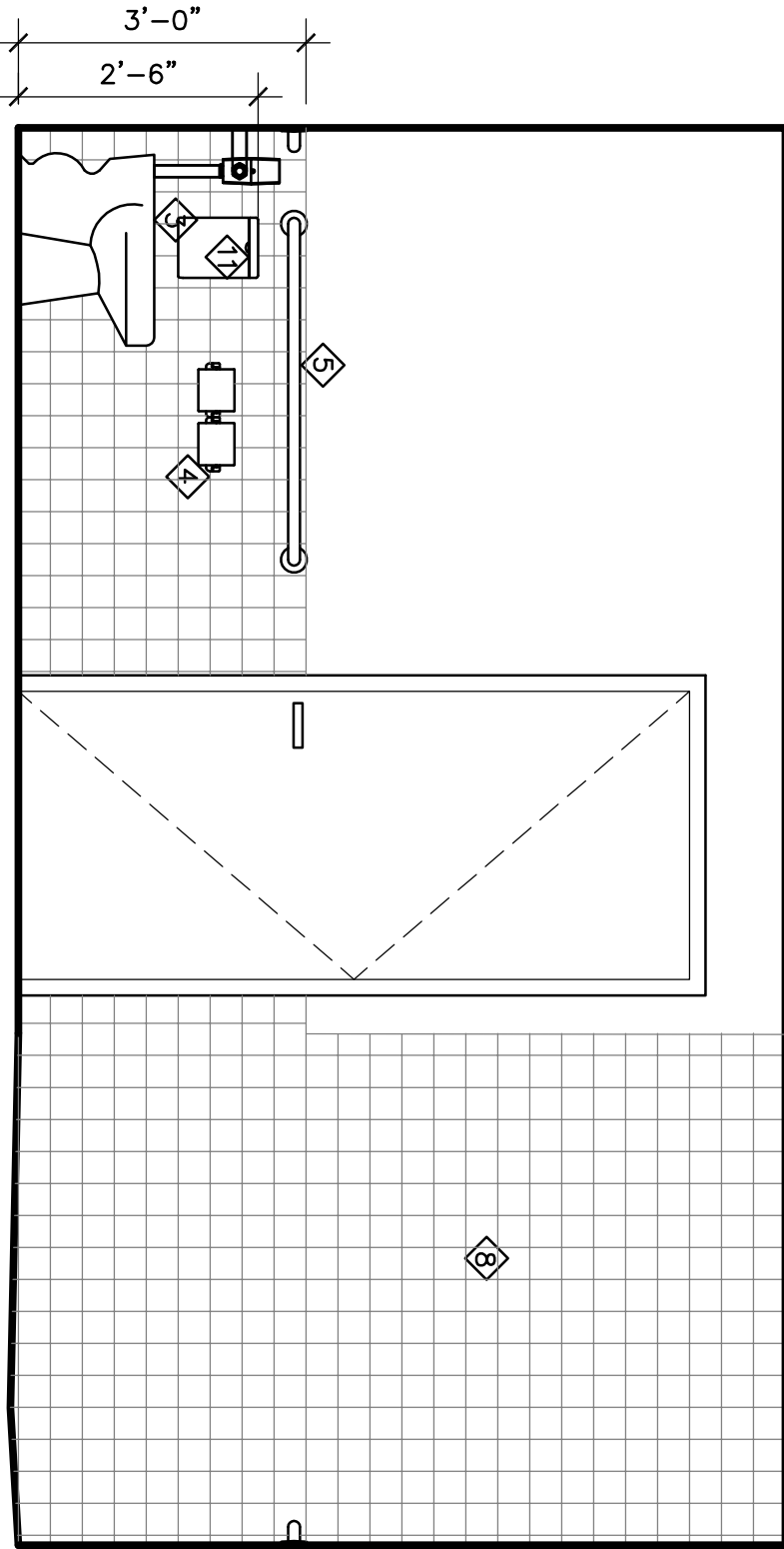
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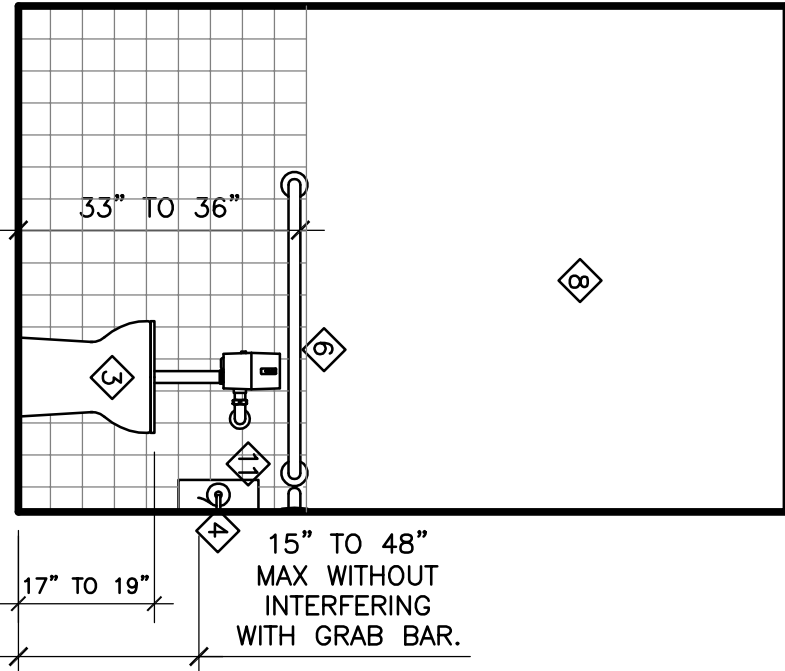
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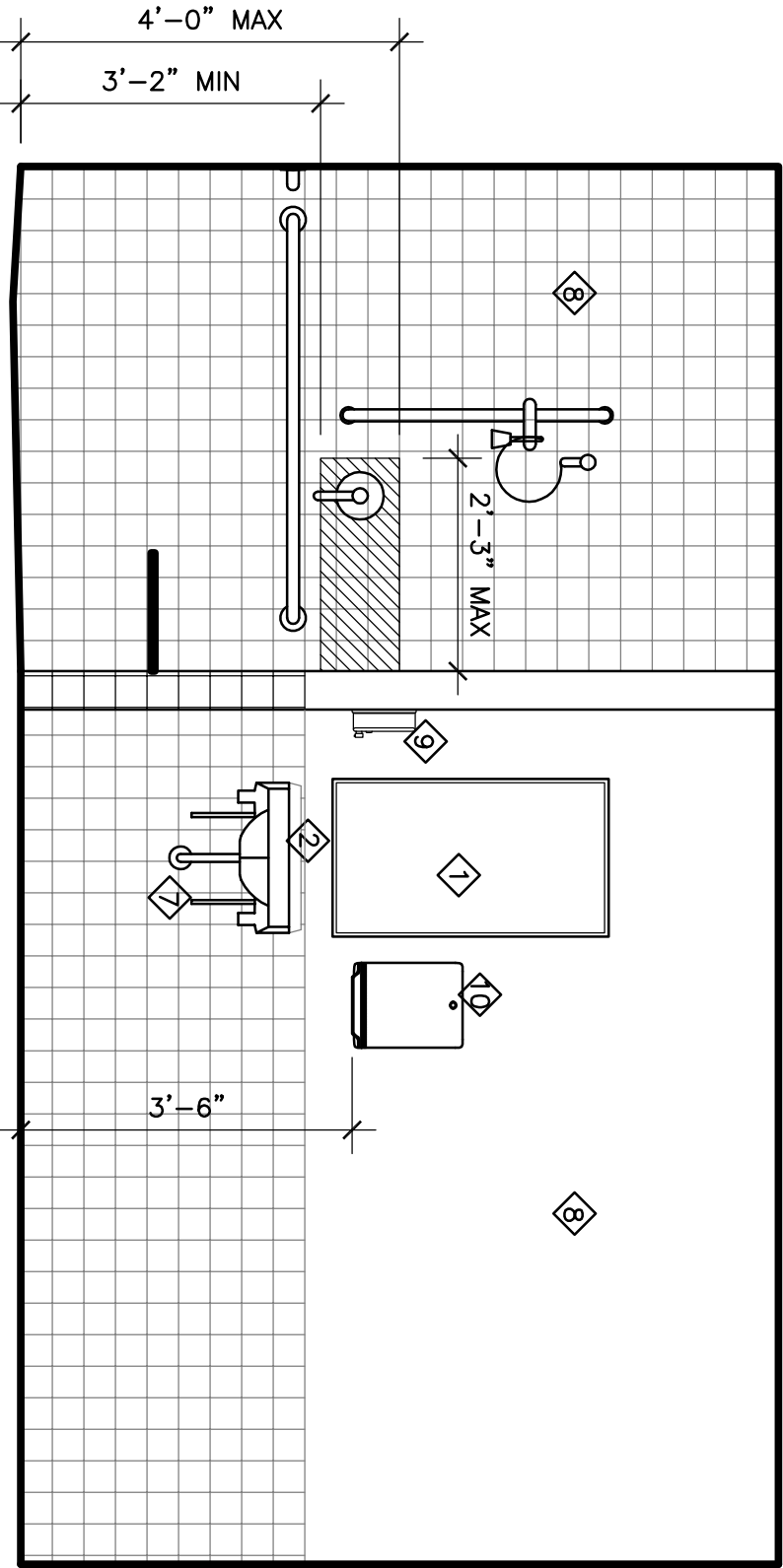
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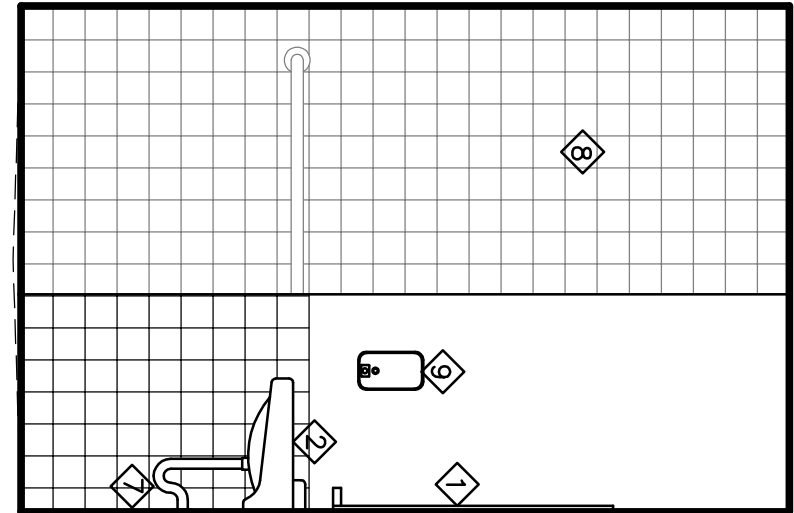
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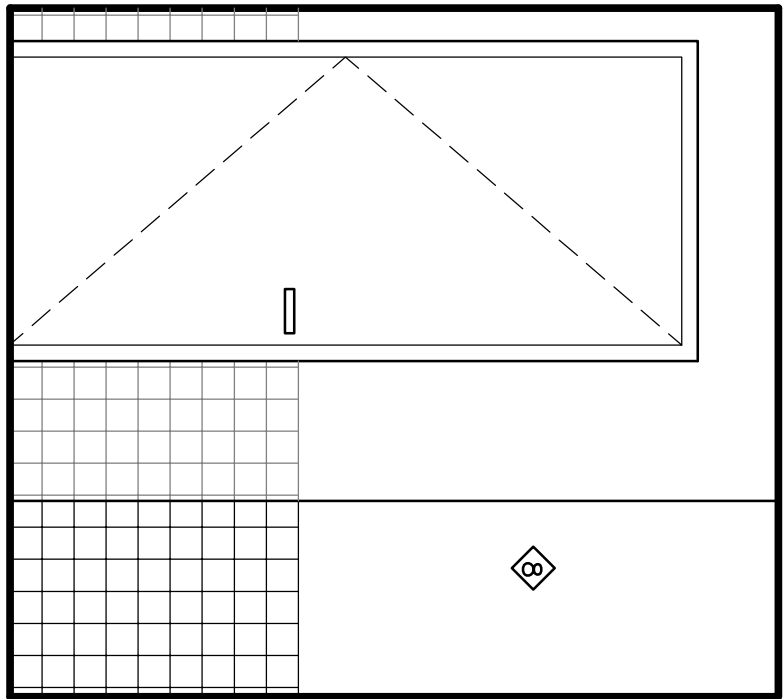
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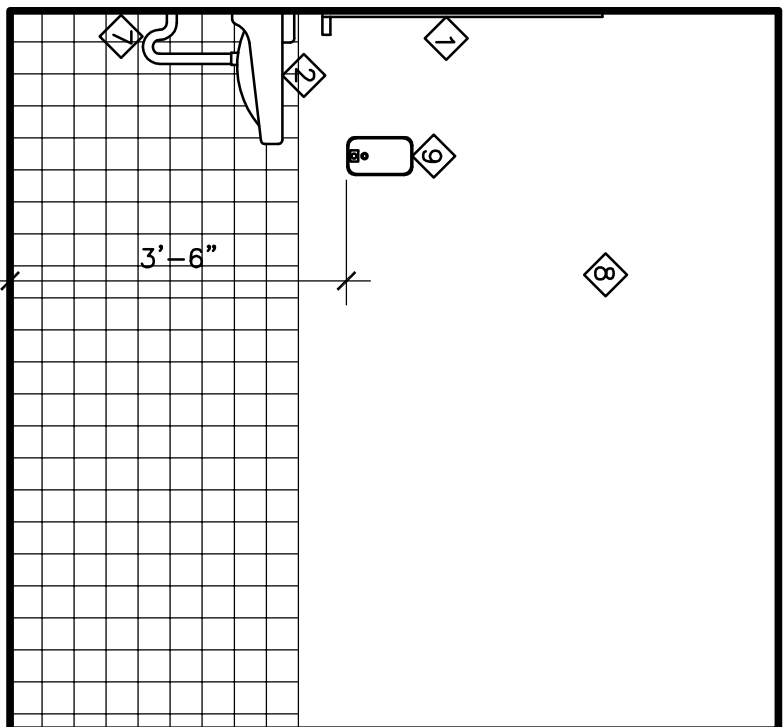
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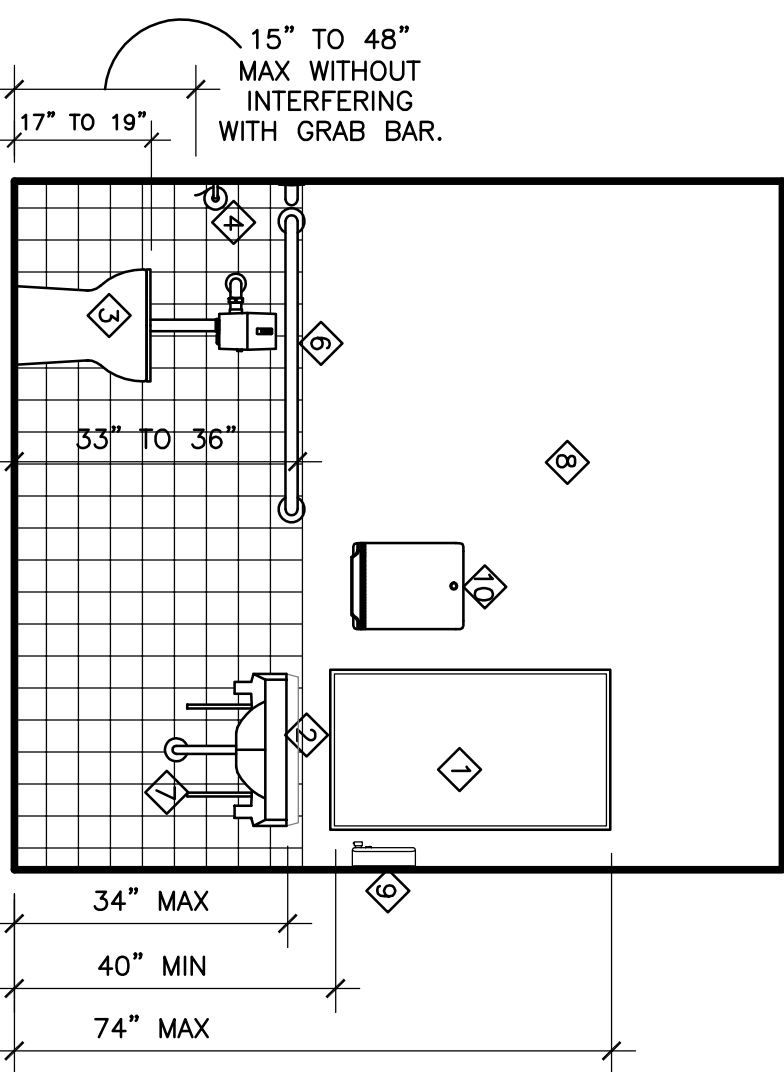
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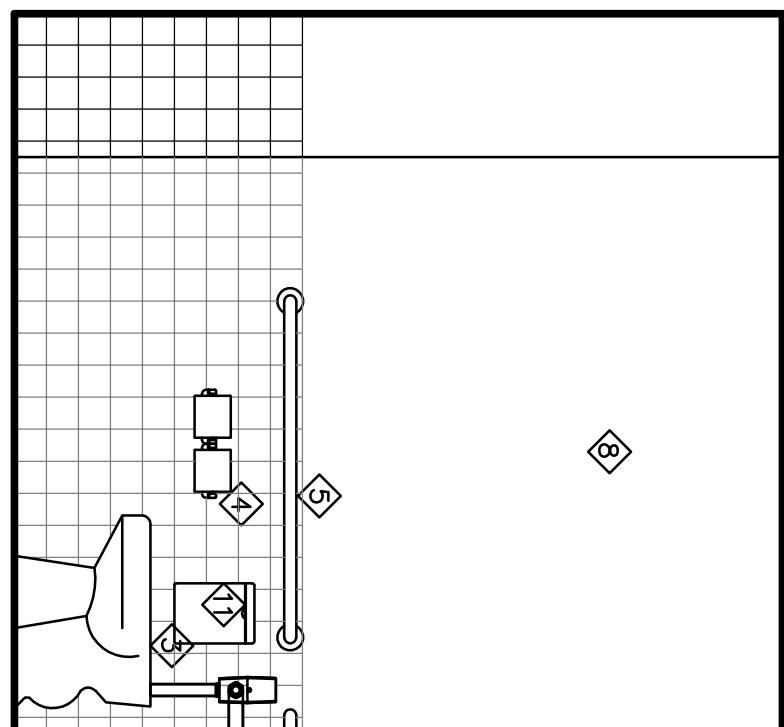
7 RESTROOM ELEVATION



8 RESTROOM ELEVATION



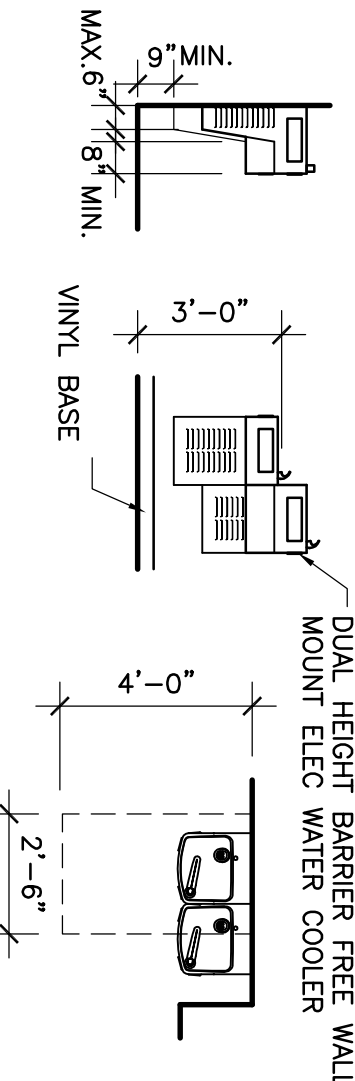
9 RESTROOM ELEVATION



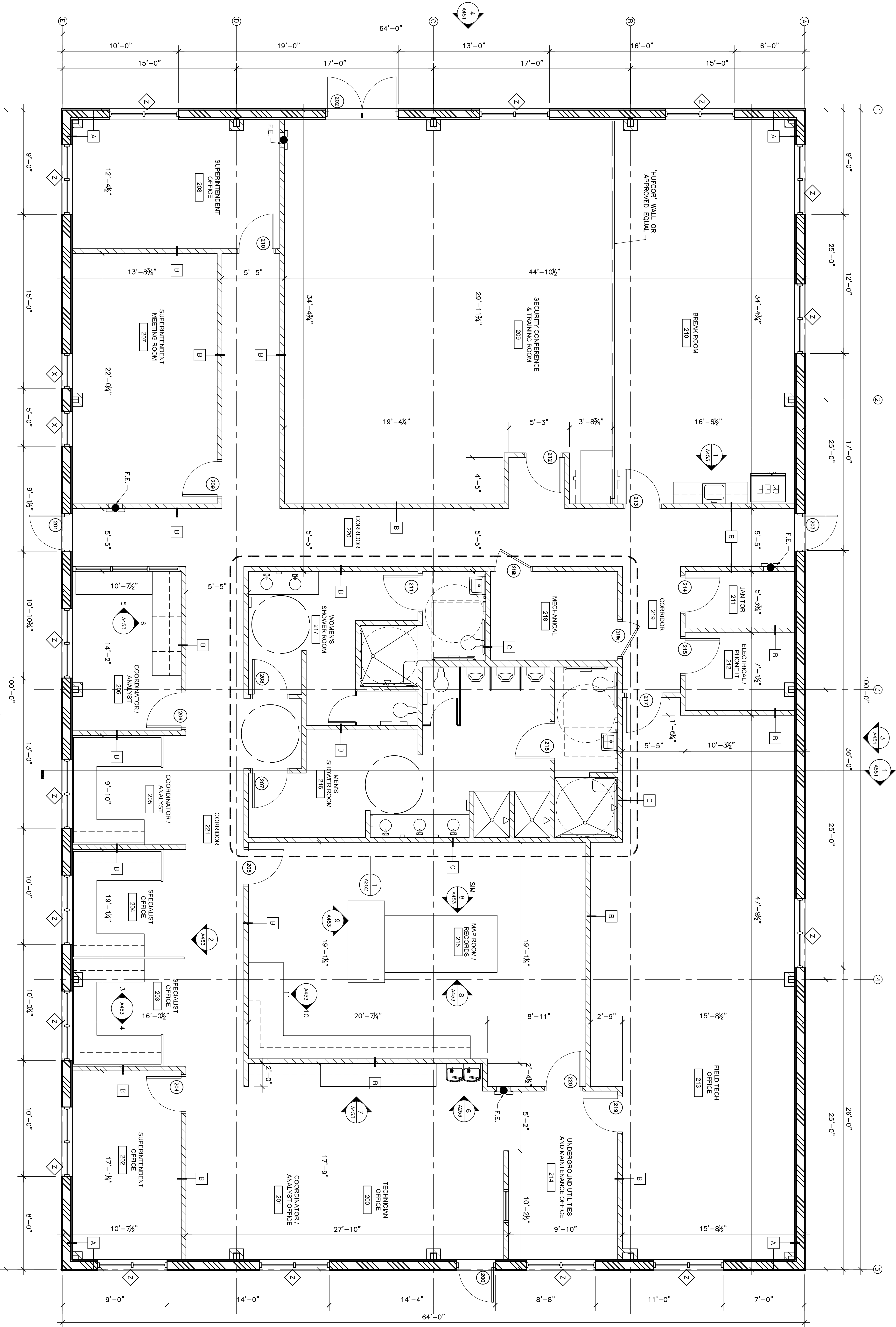
10 RESTROOM ELEVATION

TOILET ROOM LEDGED			
T&G ACCESSORY	MTG HOT	MODEL NO	
1 MIRROR	40" TO BOTTOM	B-165	
2 H-CAP LAVATORY	--	--	
3 H-CAP WATER CLOSET	17" TO 19" SEAT	--	
4 TOILET TISSUE DISPENSER	15" TO 48" AFF	B-2740	
5 48" H-CAP GRAB BAR	33" TO 36" TO TOP	B-5806	
6 36" H-CAP GRAB BAR	33" TO 36" TO TOP	B-5806	
7 PROVIDE INSULATION AROUND ALL WATER PIPES & ABRASIVE SURFACES			
8 NON-ABSORBENT WASHABLE FINISH			
9 SOAP DISPENSER	54" TO TOP	B-2111	
10 PAPER TOWEL DISPENSER	54" TO TOP	B-2620	
11 SANITARY WASTE DISPOSAL, AS REQ.	30" TO TOP	B-2710	

- ACCESSORY NOTES:
- ACCESSORIES AND INSTALLATION TO COMPLY WITH FEDERAL A.D.A. REQUIREMENTS AND CURRENT EDITION OF FLORIDA ACCESSIBILITY CODE FOR BUILDING CONSTRUCTION.
 - GRAB BARS SHALL HAVE AN OUTSIDE DIAMETER OF 1 1/2" AND SHALL PROVIDE A CLEARANCE OF 1 1/2" BETWEEN THE BAR AND THE WALL. GRAB BARS SHALL BE DESIGNED, CONSTRUCTED AND INSTALLED SO AS TO WITHSTAND A LOAD OF 250 POUNDS APPLIED AT ANY POINT, EITHER HORIZONTALLY OR VERTICALLY.
 - PROVIDE PRODUCTS OF SAME MFR. FOR EACH TYPE OF ACCESSORY UNIT UNLESS OTHERWISE DIRECTED.
 - PROVIDE SOLID BLOCKING IN WALLS FOR MOUNTING ALL ACCESSORIES. CONSULT MFRS INSTALLATION SPECS FOR EACH FIXTURE OR ACCESSORY FOR ADDITIONAL/REQUIRED BLOCKING & LOCATIONS.
 - INSTALL ACCESSORIES ACCORDING TO MFRS WRITTEN INSTRUCTIONS. PROVIDE CLEARANCES TO ADJACENT WALLS TO PREVENT INTERFERENCE WITH CLEARANCES REQUIRED FOR ACCESS BY DISABLED PERSONS. PROVIDE PROPER INSTALLATION, ADJUSTMENT, OPERATION, CLEANING, AND SERVICING.
 - MEN'S BATHROOM SIGNAGE SHALL HAVE THE MALE SYMBOL, AND THE HANDICAPPED SYMBOL. WOMEN'S BATHROOM SIGNAGE SHALL HAVE THE FEMALE SYMBOL, AND THE HANDICAPPED SYMBOL. LOCATE @ 60" AFF ON THE WALL, ADJACENT TO THE LATCH SIDE OF THE DOOR. DO NOT MOUNT ANY ACCESSORY TO THE DOOR.
 - FLUSH CONTROLS FOR ALL TOILETS SHALL BE MOUNTED ON THE WIDE SIDE OF THE TOILET.
 - ALL BATHROOM FIXTURES, PARTITIONS, ACCESSORIES & FIXTURE ARRANGEMENTS & LOCATION DIMENSIONS TYPICAL FOR ALL BATHROOMS, BATHROOM OR ALL BATHROOM ACCESSORIES TYPICAL FOR EACH BATHROOM.
 - CONTRACTOR TO SUBMIT BATHROOM FIXTURE AND ACCESSORY SCHEDULE WITH PRODUCT CUT SHEETS TO ARCHITECT FOR APPROVAL PRIOR TO INSTALLATION.



11 ELECTRIC WATER COOLER



N
1
4831
1/4" = 1'-0"
OPERATIONS BUILDING FLOOR PLAN

WALL SCHEDULE

TAG	DESCRIPTION
A	NEW EXTERIOR METAL BUILDING WALL WITH 8" Z GIRTS, 1 1/2" METAL HAT CHANNELS AT 16" OC AND 8" FINISH GYP BOARD. ALTERNATE WALL STYLE 'A' - FINISH, METAL BUILDING FINISH ABOVE. SEE BUILDING SECTIONS.
B	NEW INTERIOR WALL WITH 3/8" 2SG METAL STUDS @ 16" O.C., BLOCKING AS REQUIRED, WITH BATT SOUNDPROOFING AND 5/8" PAINTED GB FINISH EACH SIDE. COORDINATE WITH OWNER ON FINISHES. (TYPICAL) (USE 20G METAL STUDS AND 1/2" CEMENT BOARD FOR ALL WALL TILE BACKING)
C	NEW INTERIOR WALL WITH 6" 20G METAL STUDS @ 16" O.C., BLOCKING AS REQUIRED, WITH BATT SOUNDPROOFING AND 5/8" PAINTED GB FINISH EACH SIDE. COORDINATE WITH OWNER ON FINISHES. (TYPICAL) (USE 20G METAL STUDS AND 1/2" CEMENT BOARD FOR ALL WALL TILE BACKING)

MANATEE COUNTY BUILDING
OPERATION FACILITY

4410 66TH STREET WEST, BRADENTON FLORIDA

OPERATIONS BUILDING
- FLOOR PLAN

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REVISIONS

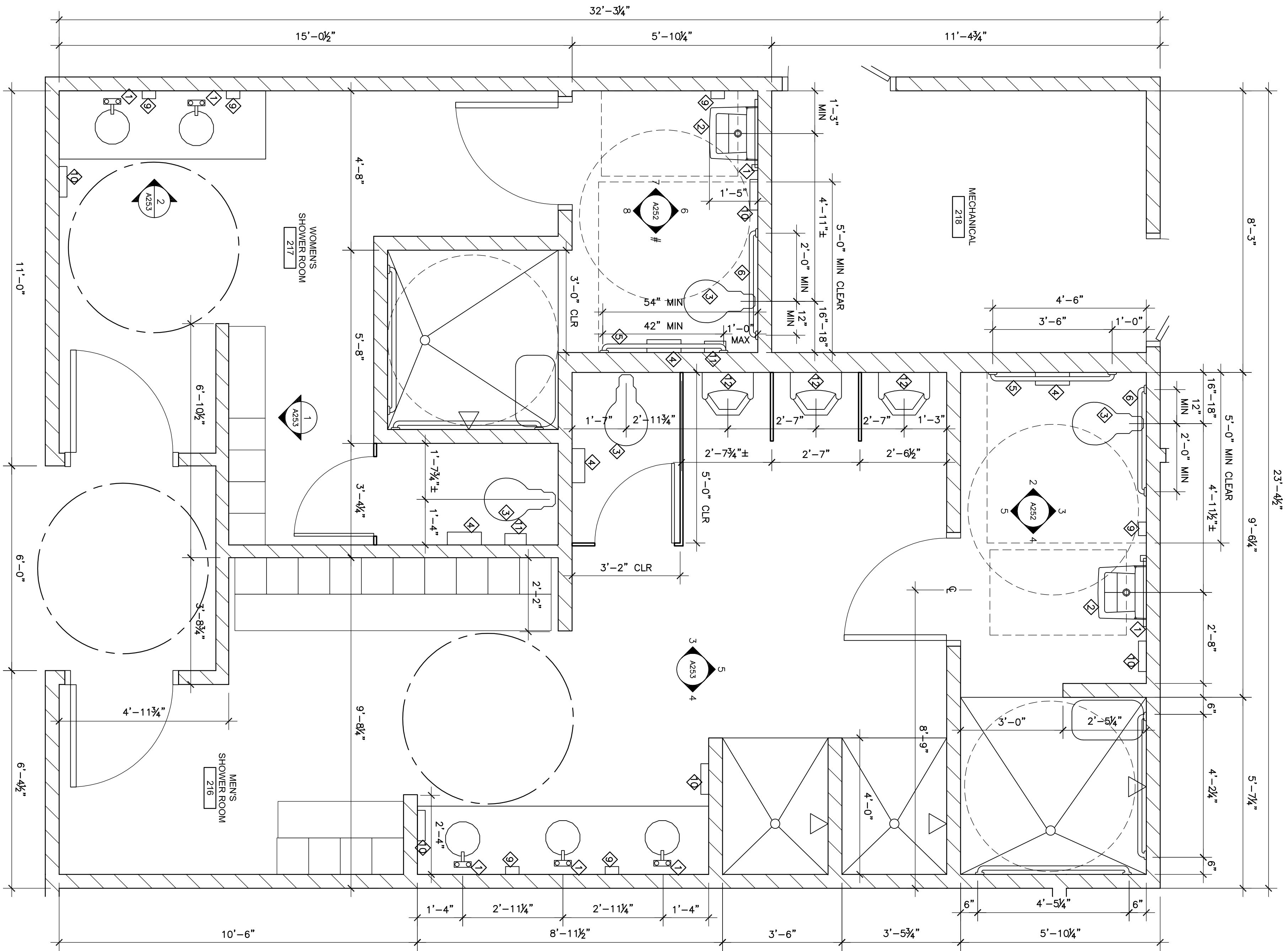
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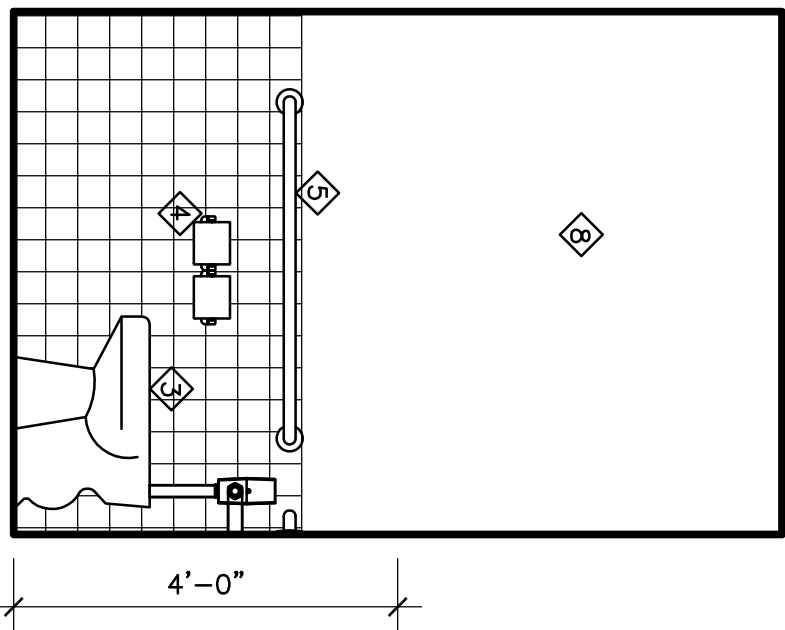
CARLOS D. UGARTE
LIC. NO. AR-0010725

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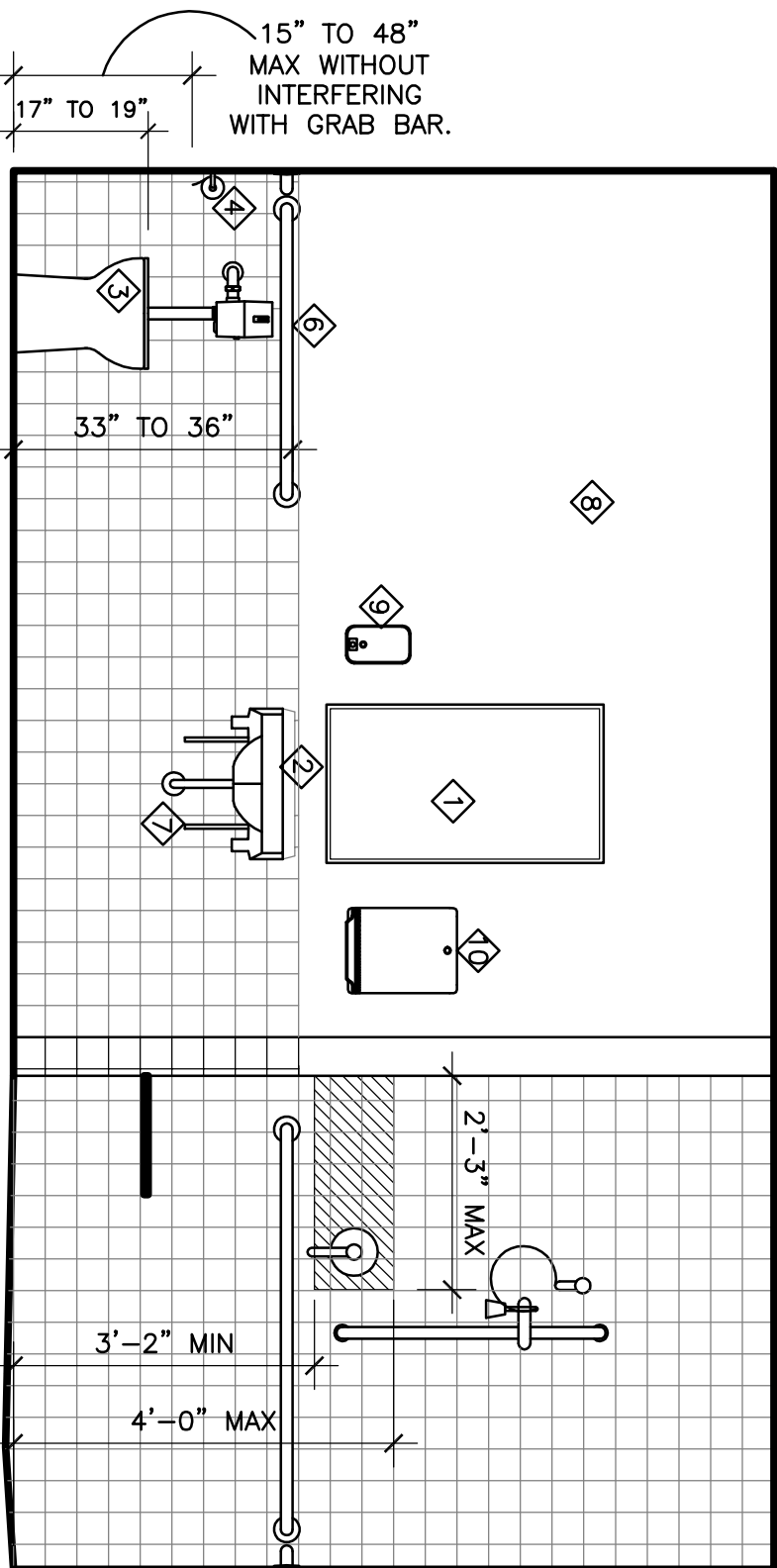
A251



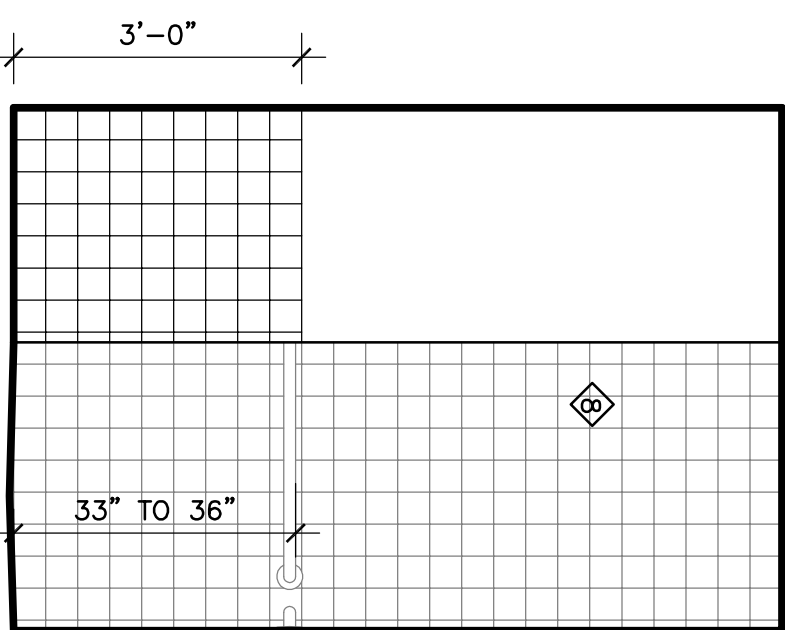
1 ENLARGED FLOOR PLAN
A252 1/2" = 1'-0"



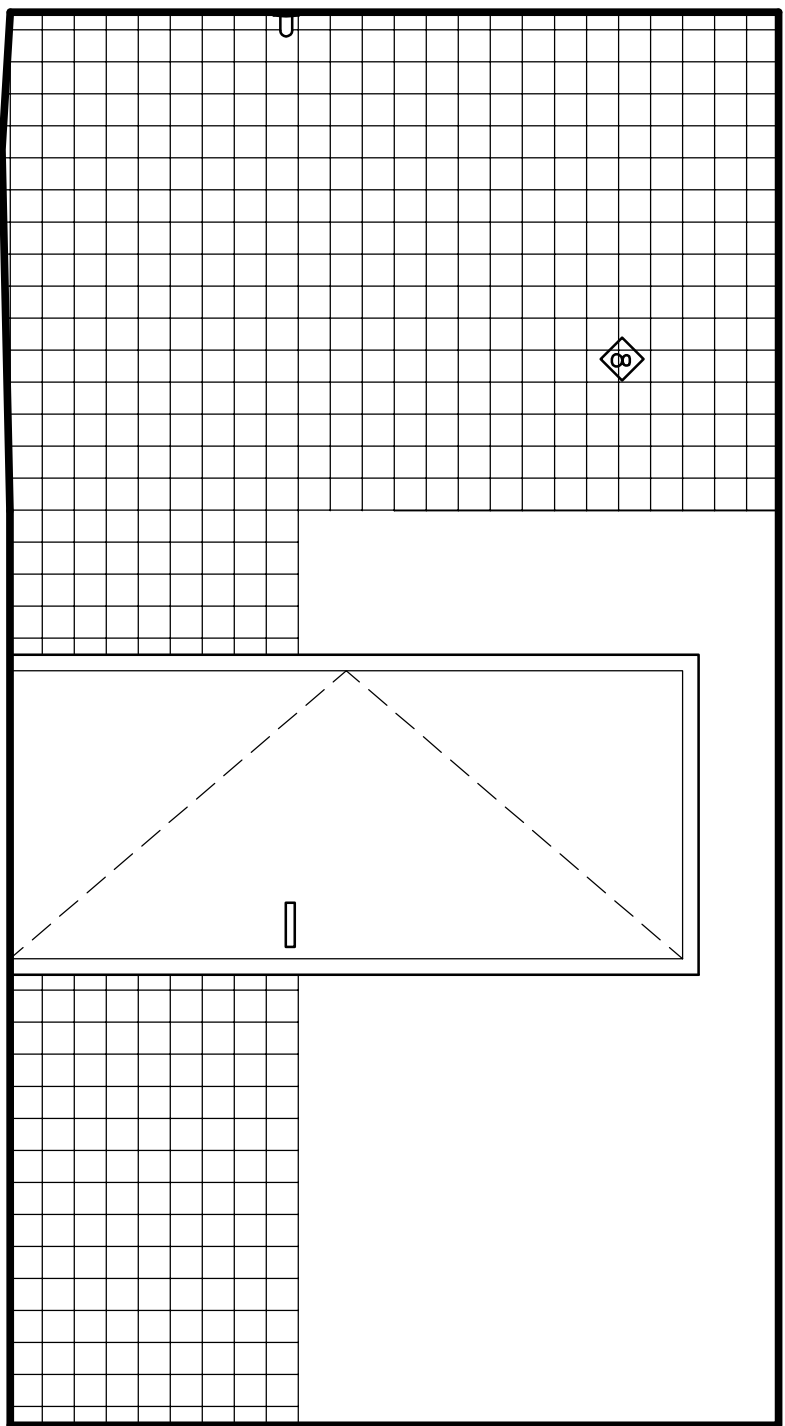
2 SHOWER ROOM ELEVATION
A252 1/2" = 1'-0"



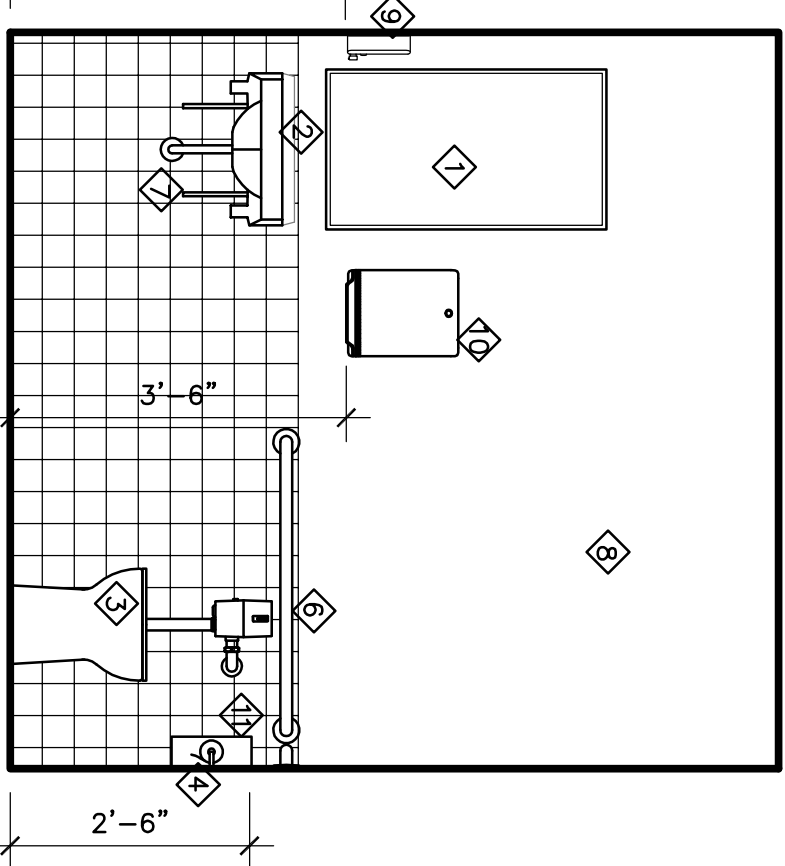
3 SHOWER ROOM ELEVATION
A252 1/2" = 1'-0"



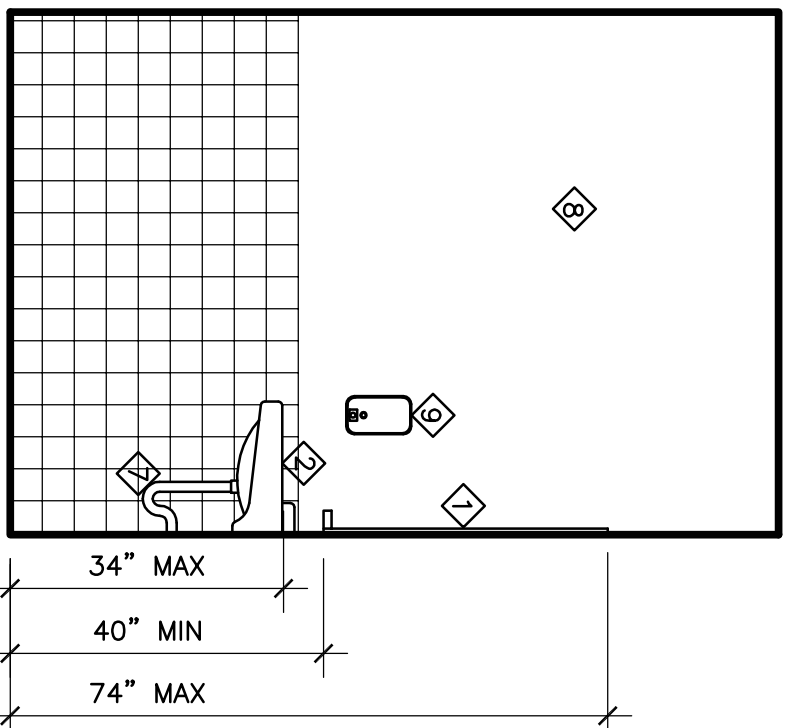
4 SHOWER ROOM ELEVATION
A252 1/2" = 1'-0"



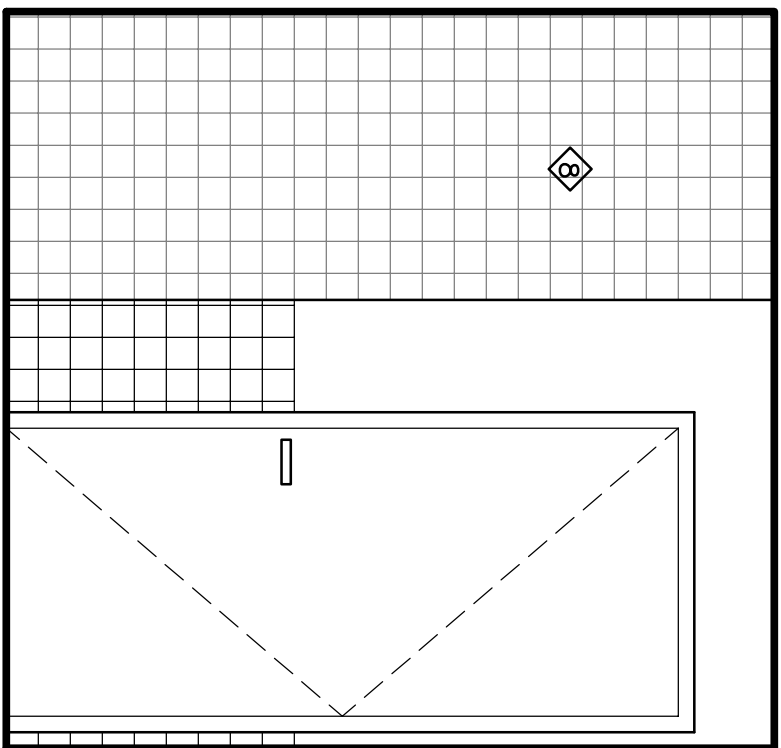
5 SHOWER ROOM ELEVATION
A252 1/2" = 1'-0"



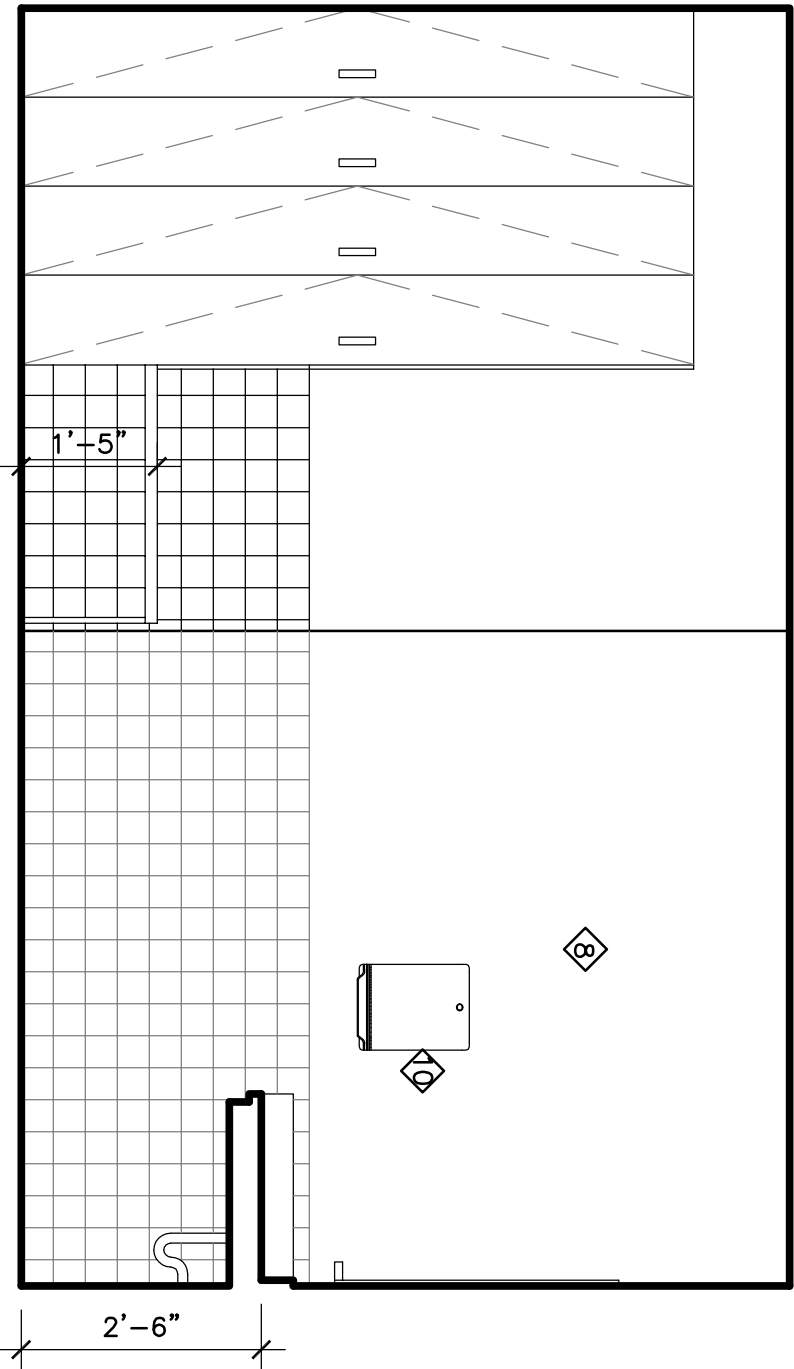
6 SHOWER ROOM ELEVATION
A252 1/2" = 1'-0"



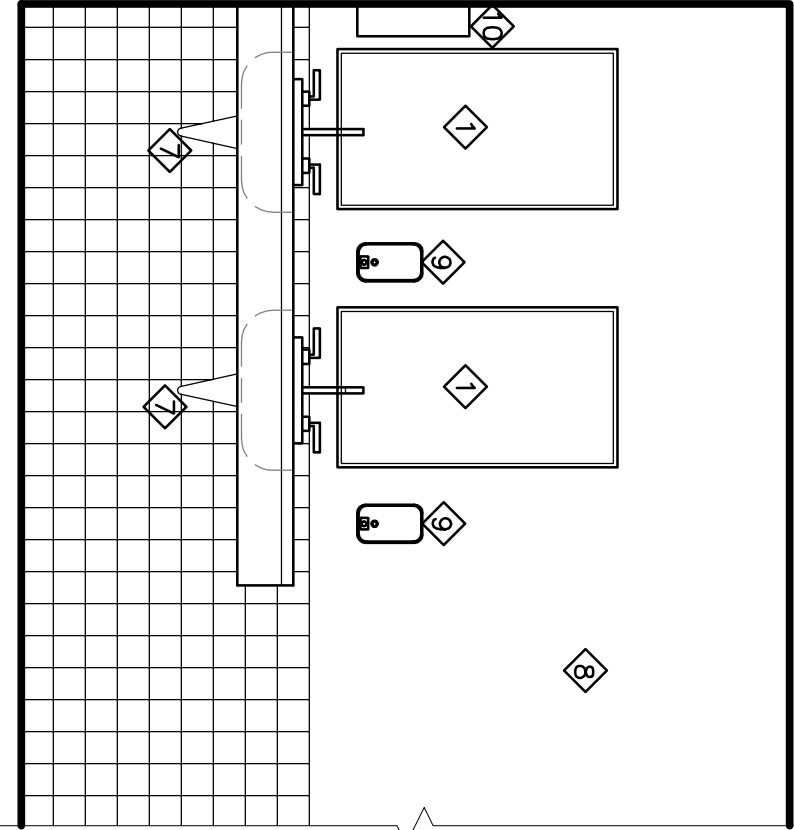
7 SHOWER ROOM ELEVATION
A252 1/2" = 1'-0"



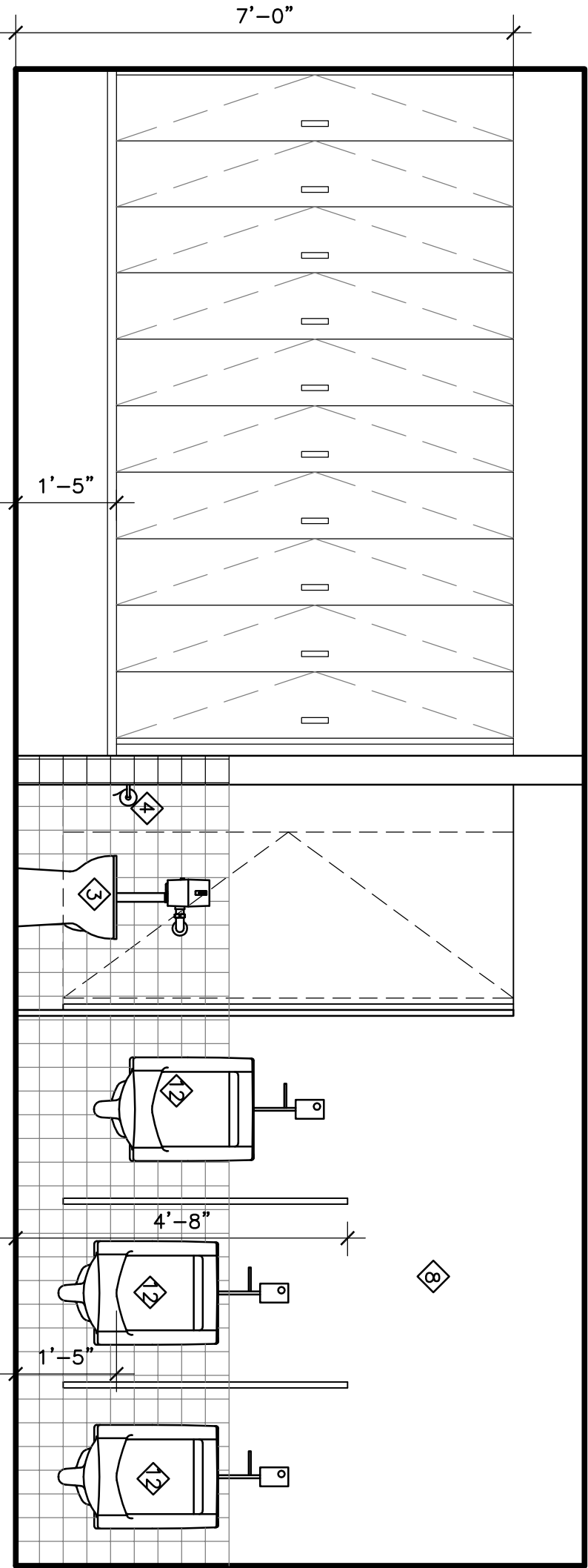
8 SHOWER ROOM ELEVATION
A252 1/2" = 1'-0"



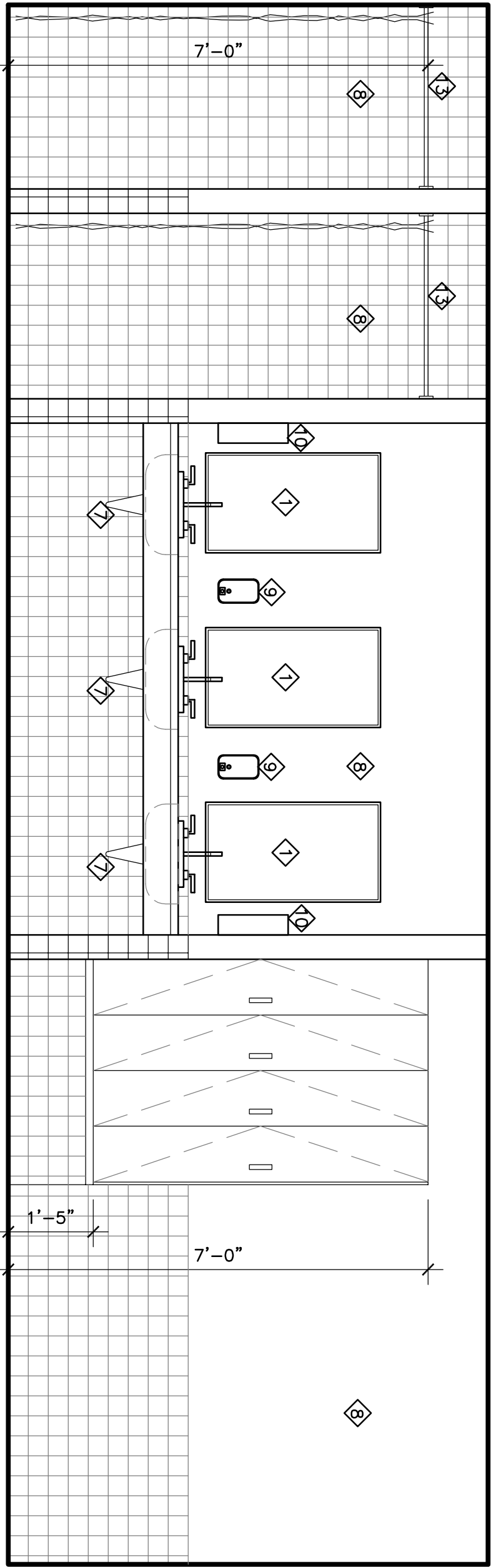
1 SHOWER ROOM ELEVATION
1/2" = 1'-0"



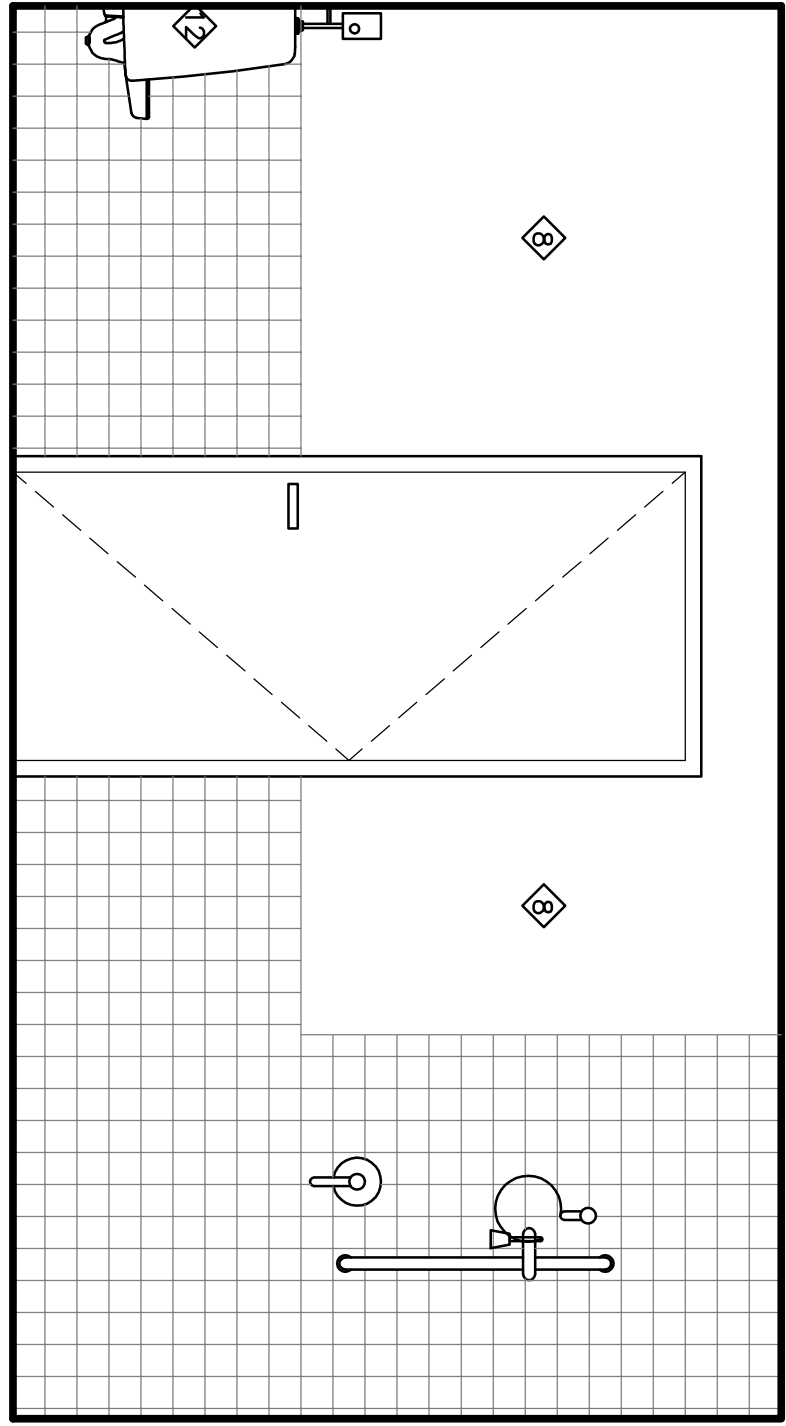
2 SHOWER ROOM ELEVATION
1/2" = 1'-0"



3 SHOWER ROOM ELEVATION
1/2" = 1'-0"

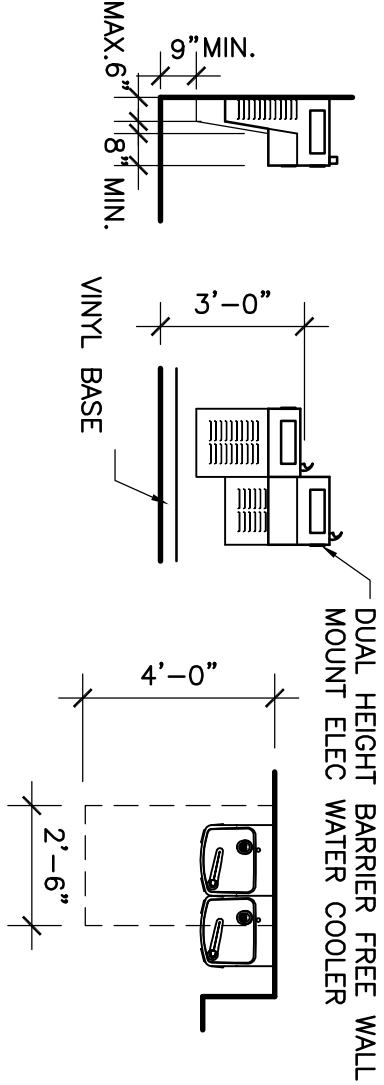


4 SHOWER ROOM ELEVATION
1/2" = 1'-0"



5 SHOWER ROOM ELEVATION
1/2" = 1'-0"

6 ELECTRICAL WATER FOUNTAIN
1/4" = 1'-0"

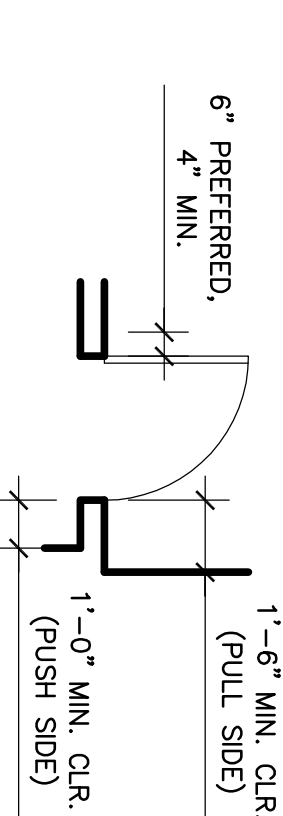


TOILET ROOM LEDGED		
TAG	ACCESSORY	MTG HGT
1	MIRROR	40" TO BOTTOM
2	H-CAP LAVATORY	---
3	H-CAP WATER CLOSET	17" TO 19" SEAT
4	TOILET TISSUE DISPENSER	15" TO 48" AFF
5	48" H-CAP GRAB BAR	33" TO 36" TO TOP
6	36" H-CAP GRAB BAR	33" TO 36" TO TOP
7	PROVIDE INSULATION AROUND ALL WATER PIPES & ABRASIVE SURFACES	---
8	NON-ABSORBENT WASHABLE FINISH	---
9	SOAP DISPENSER	54" TO TOP
10	PAPER TOWEL DISPENSER	54" TO TOP
11	SANITARY NAPKIN DISPOSAL, AS REQ.	30" TO TOP
12	ADA WALL HUNG URINAL	17" TO RIM
13	SHOWER CURTAIN AND ROD	---

- ACCESSORY NOTES:
- ACCESSORIES AND INSTALLATION TO COMPLY WITH FEDERAL A.D.A. REQUIREMENTS AND CURRENT EDITION OF FLORIDA ACCESSIBILITY CODE FOR BUILDING CONSTRUCTION.
 - GRAB BARS SHALL HAVE AN OUTSIDE DIAMETER OF 1 1/2" AND SHALL PROVIDE A CLEARANCE OF 1 1/2" BETWEEN THE RAIL AND THE WALL. GRAB BARS SHALL BE DESIGNED, CONSTRUCTED AND INSTALLED SO AS TO WITHSTAND A LOAD OF 250 POUNDS APPLIED AT ANY POINT, EITHER HORIZONTALLY OR VERTICALLY.
 - PROVIDE PRODUCTS OF SAME MFR. FOR EACH TYPE OF ACCESSORY UNIT UNLESS OTHERWISE DIRECTED.
 - PROVIDE SOLID BLOCKING IN WALLS FOR MOUNTING ALL ACCESSORIES. CONSULT MFRS. INSTALLATION SPECS FOR EACH FIXTURE OR ACCESSORY. FOR ADDITIONAL/REQUIRED BLOCKING & LOCATIONS.
 - INSTALL ACCESSORIES ACCORDING TO MANUFACTURER'S INSTALLATION INSTRUCTIONS. PROVIDE MINIMUM 1/2" CLEARANCE FROM WALLS TO PREVENT INTERFERENCE WITH CLEARANCES REQUIRED FOR ACCESS BY DISABLED PERSONS. PROPER INSTALLATION, ADJUSTMENT, OPERATION, CLEANING, AND SERVICING.
 - MEN'S BATHROOM SIGNAGE SHALL HAVE THE MALE SYMBOL AND THE FEMALE SYMBOL AND THE HANDICAPPED SYMBOL. LOCATE @ 60" AFF ON THE WALL, 18" FROM THE DOOR TO THE LATCH SIDE OF THE DOOR. DO NOT MOUNT ON THE DOOR.
 - FLUSH CONTROLS FOR ALL TOILETS SHALL BE MOUNTED ON THE WIDE SIDE OF THE TOILET.
 - ALL BATHROOM FIXTURES, PARTITIONS, ACCESSORIES & FIXTURE ARRANGEMENTS & LOCATION DIMENSIONS TYPICAL FOR ALL BATHROOMS. DIMENSIONS OF ALL BATHROOM ACCESSORIES TYPICAL FOR EACH BATHROOM.
 - CONTRACTOR TO SUBMIT BATHROOM FIXTURE AND ACCESSORY SCHEDULE WITH PRODUCT CUT SHEETS TO ARCHITECT FOR APPROVAL PRIOR TO INSTALLATION.

DOOR AND FRAME SCHEDULE									
DOOR						FRAME		NOTES	
#	EL	SIZE		MATL	FINISH	EL	DR	HW	
101	A	3'-0"	7'-0"	SF	FACTORY	-	-	-	SEE STOREFRONT ELEVATION A
102	B	3'-0"	7'-0"	HM	PAINTED	2	-	-	-
103	B	3'-0"	7'-0"	HM	PAINTED	2	-	-	-
104	C	3'-0"	7'-0"	SF	FACTORY	-	-	-	SEE STOREFRONT ELEVATION A
105	A	3'-0"	7'-0"	SF	FACTORY	-	-	-	SEE STOREFRONT ELEVATION B
106	C	3'-0"	7'-0"	SF	FACTORY	-	-	-	-
107	B	3'-0"	7'-0"	SCMD	STAINED	1	-	-	-
108	B	3'-0"	7'-0"	SCMD	STAINED	1	-	-	-
109	B	3'-0"	7'-0"	SCMD	STAINED	1	-	-	-
110	B	3'-0"	7'-0"	SCMD	STAINED	1	-	-	-
111	B	3'-0"	7'-0"	SCMD	STAINED	1	-	-	-
112	B	3'-0"	7'-0"	SCMD	STAINED	1	-	-	-
113	B	3'-0"	7'-0"	SCMD	STAINED	1	-	-	-
114	B	3'-0"	7'-0"	SCMD	STAINED	1	-	-	-
115	B	3'-0"	7'-0"	SCMD	STAINED	1	-	-	-
116	B	3'-0"	7'-0"	SCMD	STAINED	1	-	-	-
117	D	6'-0"	7'-0"	SCMD	STAINED	1	-	-	-
118	B	3'-0"	7'-0"	SCMD	STAINED	1	-	-	-
119	B	3'-0"	7'-0"	SCMD	STAINED	1	-	-	-
120	C	3'-0"	7'-0"	SF	FACTORY	-	-	-	SEE STOREFRONT ELEVATION A
121	C	3'-0"	7'-0"	SF	FACTORY	-	-	-	SEE STOREFRONT ELEVATION B
122	C	3'-0"	7'-0"	SF	FACTORY	-	-	-	SEE STOREFRONT ELEVATION C
123	C	3'-0"	7'-0"	SCMD	STAINED	1	-	-	-
124	C	3'-0"	7'-0"	SCMD	STAINED	1	-	-	-
125	B	3'-0"	7'-0"	SCMD	STAINED	1	-	-	-
126	A	3'-0"	7'-0"	SF	FACTORY	-	-	-	SEE STOREFRONT ELEVATION B

TYPICAL INTERIOR DOOR CLEARANCE DETAIL



DOORS SHOWN ADJACENT TO A FLANKING WALL OR OTHER FIXED OBSTRUCTION SHALL BE LOCATED AS SHOWN ABOVE.

SIGN LOCATION NOTES:

1. SIGN PLACEMENTS THAT ARE ACCESSIBLE TO AND USABLE BY PERSONS WITH DISABILITIES AND AT EVERY MAJOR JUNCTION ALONG OR LEADING TO AN ACCESSIBLE ROUTE OF TRAVEL, SHALL BE IDENTIFIED WITH A SIGN DISPLAYING THE INTERNATIONAL SYMBOL OF ACCESSIBILITY AND WITH ADDITIONAL DIRECTIONAL SIGNS, AS REQUIRED, TO BE VISIBLE TO PERSONS ALONG APPROACHING.
 2. WHEN PERMANENT IDENTIFICATION IS PROVIDED FOR ROOMS AND SPACES, RAISED LETTERS SHALL BE PROVIDED AND SHALL BE ACCOMPANIED BY BRAILLE. SIGNS SHALL BE INSTALLED ON THE WALL ADJACENT TO THE LATCH OUTSIDE OF THE DOOR, WHERE THERE IS NO WALL SPACE ON THE LATCH SIDE, INCLUDING AT LEAST DOORS ON THE REAR EXTERIOR WALLS, SHALL BE ADJACENT TO THE DOOR. THE SIGN MOUNTING HEIGHT SHALL BE 60" ABOVE THE FINISH FLOOR TO THE CENTERLINE OF THE SIGN. MOUNTING LOCATION SHALL BE DETERMINED SO THAT THE PERSON MAY APPROACH WITHIN 3' OF THE SIGNAGE WITHOUT ENCOUNTERING PROTRUDING OBJECTS OR STANDING WITHIN THE SWING OF A DOOR. DO NOT MOUNT ON DOOR.
- BRAILLE NOTES:**
1. USE CONTRASTED GRADE 2 BRAILLE. DOTS TO BE 0.1 INCH ON CENTER IN EACH CELL, 0.2 INCH SPACE BETWEEN CELLS, DOTS RAISED MINIMUM 0.025 INCH ABOVE BACKGROUND.

- DOOR NOTES:**
1. ALL DISCREPANCIES SHALL BE BROUGHT TO ARCHITECTS ATTENTION PRIOR TO ORDERING. WITH A MINIMUM OF THE FOLLOWING HARDWARE AS NOTED IN THE DOOR SCHEDULE.
 2. ALL HARDWARE SHALL BE ADA COMPLIANT, PER CURRENT FBC.
 3. MANUFACTURERS SPECIFICATIONS SUPERCEDE ANY INFORMATION CONTAINED ON THIS SHEET.
 4. CONTRACTOR TO VERIFY EXISTING CONDITIONS AND PROVIDE ORDERING WITH FULL DOOR AND HARDWARE SCHEDULE PRIOR TO MASTERKEYED TO EXISTING SYSTEM.

BUTT HINGES
ANSI/BHMA A156.1, FULL MORPHE, SIZE AND NUMBER AS RECOMMENDED BY MANUFACTURER. BALL BEARING HINGES FOR DOORS WITH CLOSERS.

CYLINDERS
EQUIP LOCKS WITH MANUFACTURER'S STANDARD 6-PIN TUMBLER CYLINDERS, COORDINATE KEYING WITH OWNER.

- LOCKSETS**
INGERSOLL RAND - FALCON "T" SERIES
ANSI/BHMA A156.13 HEAVY DUTY CONSTRUCTION WITH WROUGHT CASES, SUPPLY LOCKSETS UTILIZING DEADBOLTS WITH MINIMUM 1 INCH THROW.
* LEVER HANDLES: CAST OR FORGED STAINLESS STEEL SUPPORTED BY INTERNAL SPRING. "SPURT" (WITH ALL-THREAD CONNECTOR), SET SCREW, REVER/RETAINER NOTCH.
* FINISH TO BE BRUSHED STAINLESS STEEL.
* FURNISH LOCKS AND LATCHES WITH MINIMUM LIP PROJECTION.
* TRIM ASSEMBLY STYLE SELECTION/OWNER TO SELECT.
* FINISH TO BE BRUSHED STAINLESS STEEL.

CLOSER
INGERSOLL RAND - LCN 4110 SERIES
ANSI/BHMA A156.4, NON-SIZED, NON-HANDED WITH MINIMUM 1-1/2 INCH DIAMETER CYLINDER FULL COVER, FULL PACK AND PINION, NON-REVERSIBLE AND LATCHING REGULATING VALVES, ADJUSTABLE BACK-CHECK FEATURE.

PANIC HARDWARE
INGERSOLL RAND - VON DUPRIN 98/99 SERIES

WALL STOP
INGERSOLL RAND - IVES W565 WALL STOP

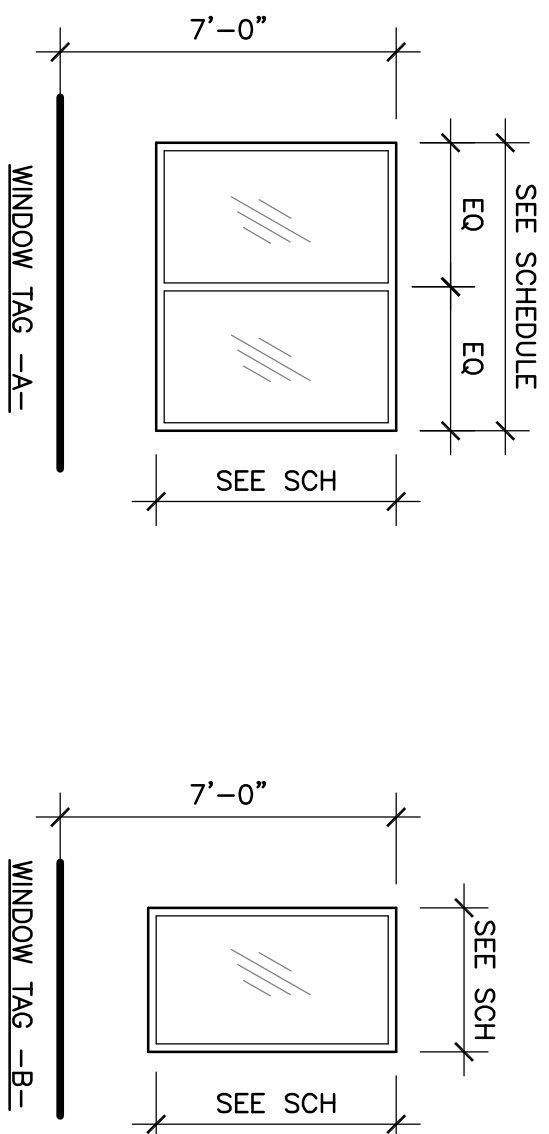
SILENCER
INGERSOLL RAND - SR64 DOOR SILENCER

WEATHERSTRIPPING AND SEALS
* CARPET THRESHOLD: PEMKO #2364, 4 INCHES WIDE.
* SILL STRIP/SADDLE: ZERO #339, WITH ZERO #1672.
FINISHES
COORDINATE WITH OWNER

WINDOW AND FRAME SCHEDULE					
WINDOW			FRAME		REMARKS
WINDOW TAG	SIZE (WINDOW FRAME)	GLAZING	STYLE	MATERIAL	
	WIDTH	HEIGHT			
A	8'-0"	4'-4"	INSULATED, IMPACT RESISTANT, LOW E	ALUMIN	CLEAR ANODIZED
B	4'-0"	4'-4"	INSULATED, IMPACT RESISTANT, LOW E	ALUMIN	CLEAR ANODIZED

NOTES:

1. CONTRACTOR TO VERIFY ALL WINDOW OPENINGS IN FIELD PRIOR TO ORDERING WINDOWS.
2. ALL DISCREPANCIES SHALL BE BROUGHT TO ARCHITECTS ATTENTION PRIOR TO ORDERING.
3. SEE NOA #1'S ON COVER SHEET A001 FOR INSTALLATION GUIDELINES. (PRODUCT APPROVALS ON COVER SHEET).
4. SEE NOA #1'S ON COVER SHEET A001 FOR INSTALLATION GUIDELINES. (PRODUCT APPROVALS ON COVER SHEET).
5. SEE PRODUCT APPROVAL FOR SPECIFIC INSTALLATION GUIDELINES. (PRODUCT APPROVALS ON COVER SHEET).
6. NOA'S AND MANUFACTURER'S SPECIFICATIONS SUPERSEDE ARCHITECTURAL DRAWINGS AND DETAILS.



FINISH SCHEDULE				
ROOM	FLOOR	BASE	WALLS	CEILING
100	TILE1	VINYL BASE	PAINTED GYP	ACT
101	CARPET	VINYL BASE	PAINTED GYP	ACT
102	CARPET	VINYL BASE	PAINTED GYP	ACT
103	CARPET	VINYL BASE	PAINTED GYP	ACT
104	CARPET	VINYL BASE	PAINTED GYP	ACT
105	TILE1	VINYL BASE	PAINTED GYP	ACT
106	TILE1	VINYL BASE	PAINTED GYP	ACT
107	TILE2	TILE BASE	TILE3	PAINTED GYP BD
108	TILE2	TILE BASE	TILE3	PAINTED GYP BD
109	TILE2	TILE BASE	TILE3	PAINTED GYP BD
110	TILE1	VINYL BASE	PAINTED GYP	ACT
111	TILE1	VINYL BASE	PAINTED GYP	ACT
112	TILE1	VINYL BASE	PAINTED GYP	ACT
113	CARPET	VINYL BASE	PAINTED GYP	ACT
114	CARPET	VINYL BASE	PAINTED GYP	ACT
115	TILE1	NO BASE	PAINTED GYP	ACT
116	TILE2	TILE BASE	TILE3	PAINTED GYP BD
117	TILE1	NO BASE	PAINTED GYP	ACT
118	TILE1	NO BASE	PAINTED GYP	ACT
119	TILE1	VINYL BASE	PAINTED GYP	ACT
120	CARPET	VINYL BASE	PAINTED GYP	ACT
121	CARPET	VINYL BASE	PAINTED GYP	ACT
122	TILE1	VINYL BASE	PAINTED GYP	ACT
123	TILE1	VINYL BASE	PAINTED GYP	ACT
124	TILE1	VINYL BASE	PAINTED GYP	ACT

FLOORING:

TILE1 - TYPICAL FLOOR TILE
TILE2 - RESTROOM FLOOR TILE
TILE3 - WALL TILE
CARPET - "SHAW" CARPET TILE SQUARE, OR APPROVED EQUAL
BASE: VINYL BASE - "ARMSTRONG" 4" VINYL WALL BASE, OR APPROVED EQUAL

PAINT:
TEXTURE TO BE: ORANGE PEEL
PAINT COLOR SELECTION BY OWNER
PAINT FINISH TO BE: EGG SHELL
ALL PAINTING SHALL BE PRIMER + TWO COATS OF PAINT.

CEILING:
ACT (ACOUSTICAL CEILING TILE) - "ARMSTRONG" CIRRIUS SQUARE LAY-IN AND REGULAR - 534 WHITE

DOOR HARDWARE SCHEDULE

1. BUTT HINGES, CLASSROOM LOCKSET W/AUXILIARY DEAD LATCH ABOVE, WEATHER STRIPPING, CYLINDERS, AND SILENCERS.
2. BUTT HINGES, CLOSER, WEATHER STRIPPING, WALL STOP, PANIC HARDWARE, CYLINDERS, AND SILENCERS.
3. BUTT HINGES, PASSAGE LOCKSET, CYLINDERS, WALL STOP, AND SILENCER.
4. BUTT HINGES, PRIVACY LOCKSET, OVERHEAD CLOSER, CYLINDERS, WALL STOP, AND SILENCER.
5. BUTT HINGES, CLOSET LOCKSET, CYLINDERS, WALL STOP AND SILENCER.
6. BUTT HINGES, OFFICE LOCKSET, CYLINDERS, WALL STOP, AND SILENCER.
7. BUTT HINGES, CLASSROOM LOCKSET, CYLINDERS, WALL STOP, AND SILENCER.

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MANATEE COUNTY BUILDING OPERATION FACILITY

4410 66TH STREET WEST, BRADENTON FLORIDA

ANNEX BUILDING - WINDOW AND DOOR SCHEDULE

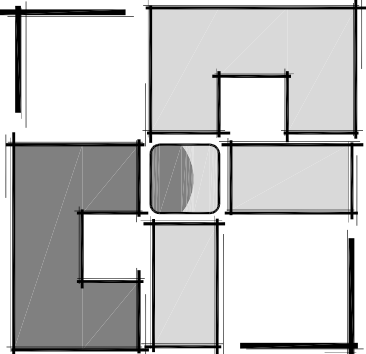
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OPERATIONS BUILDING - WINDOW AND DOOR SCHEDULE

MANATEE COUNTY BUILDING OPERATION SCHEDULE

4410 66TH STREET WEST, BRADENTON FLORIDA

REVISIONS

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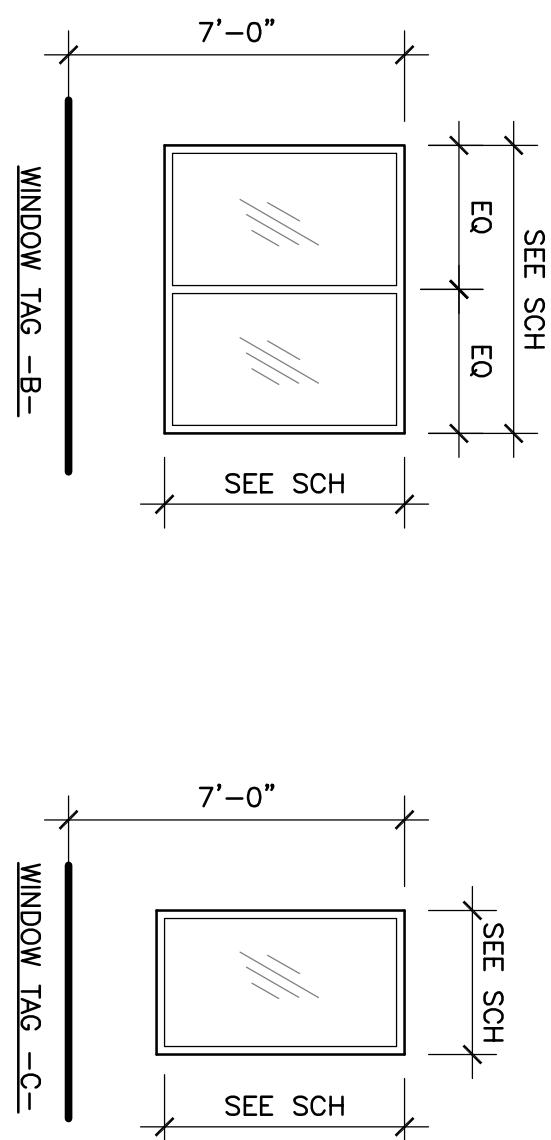
CARLOS D. UGARTE
LIC. NO. AR-0010725

SHEET

A351

WINDOW AND FRAME SCHEDULE							
WINDOW TAG	WINDOW				FRAME		REMARKS
	SIZE (WINDOW FRAME)		GLAZING	STYLE	MATERIAL	FINISH	
	WIDTH	HEIGHT					
Z	8'-0"	5'-0"	INSULATED, IMPACT RESISTANT, LOW E	STORMFRONT	ALUMIN	CLEAR ANODIZED	--
X	4'-0"	5'-0"	INSULATED, IMPACT RESISTANT, LOW E	STORMFRONT	ALUMIN	CLEAR ANODIZED	--

- NOTES:
- CONTRACTOR TO VERIFY ALL WINDOW OPENINGS IN FIELD PRIOR TO ORDERING WINDOWS.
 - PROVIDE ARCHITECT WITH WINDOW SCHEDULE SHEET PRIOR TO INSTALLATION.
 - ALL DISCREPANCIES SHALL BE BROUGHT TO ARCHITECT'S ATTENTION PRIOR TO ORDERING.
 - SEE NOK #'S ON COVER SHEET A001 FOR INSTALLATION SPECIFICATIONS.
 - SEE PRODUCT APPROVAL FOR SPECIFIC INSTALLATION GUIDELINES. (PRODUCT APPROVALS ON COVER SHEET).
 - NOK'S AND MANUFACTURER'S SPECIFICATIONS SUPERSEDE ARCHITECTURAL DRAWINGS AND DETAILS.



FINISH SCHEDULE					NOTES
ROOM	FLOOR	BASE	WALLS	CEILING	
200	CARPET	VINYL BASE	PAINTED GYP	ACT	---
201	CARPET	VINYL BASE	PAINTED GYP	ACT	---
202	CARPET	VINYL BASE	PAINTED GYP	ACT	---
203	CARPET	VINYL BASE	PAINTED GYP	ACT	---
204	CARPET	VINYL BASE	PAINTED GYP	ACT	---
205	CARPET	VINYL BASE	PAINTED GYP	ACT	---
206	CARPET	VINYL BASE	PAINTED GYP	ACT	---
207	CARPET	VINYL BASE	PAINTED GYP	ACT	---
208	CARPET	VINYL BASE	PAINTED GYP	ACT	---
209	TILE1	VINYL BASE	PAINTED GYP	ACT	---
210	TILE1	VINYL BASE	PAINTED GYP	ACT	---
211	TILE1	NO BASE	PAINTED GYP	ACT	---
212	TILE1	NO BASE	PAINTED GYP	ACT	---
213	CARPET	VINYL BASE	PAINTED GYP	ACT	---
214	CARPET	VINYL BASE	PAINTED GYP	ACT	---
215	TILE1	VINYL BASE	PAINTED GYP	ACT	---
216	TILE2	TILE BASE	TILES	PAINTED GYP	---
217	TILE2	TILE BASE	TILES	PAINTED GYP	---
218	TILE2	NO BASE	PAINTED GYP	ACT	---
219	TILE1	VINYL BASE	PAINTED GYP	ACT	---
220	TILE1	VINYL BASE	PAINTED GYP	ACT	---
221	TILE1	VINYL BASE	PAINTED GYP	ACT	---
222	TILE1	VINYL BASE	PAINTED GYP	ACT	---

FLOORING:

TILE1 - TYPICAL FLOOR TILE

TILE2 - RESTROOM FLOOR TILE

CARPET - 'SHAW' CARPET TILE SQUARE, OR APPROVED EQUAL.

WALL:

TILES - WALL TILE

BASE:

VINYL BASE - 'ARMSTRONG' 4" VINYL WALL BASE, OR APPROVED EQUAL

PAINT:

TEXTURE TO BE: ORANGE PEEL.

PAINT COLOR SELECTION BY OWNER

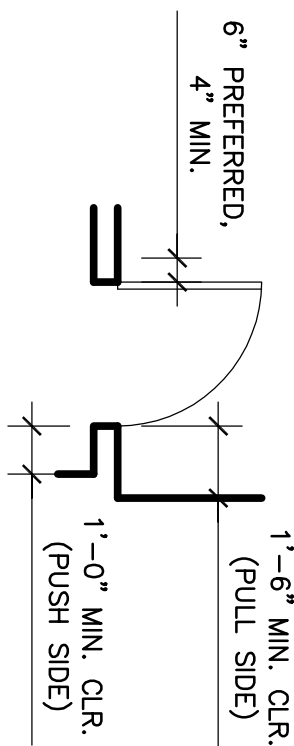
PAINT FINISH TO BE: EGG SHELL.

ALL PAINTING SHALL BE PRIMER + TWO COATS OF PAINT.

CEILING:

ACT (ACOUSTICAL CEILING TILE) - 'ARMSTRONG' CIRRUS SQUARE LAY-IN AND TEGULAR - 534 WHITE

TYPICAL INTERIOR DOOR CLEARANCE DETAIL



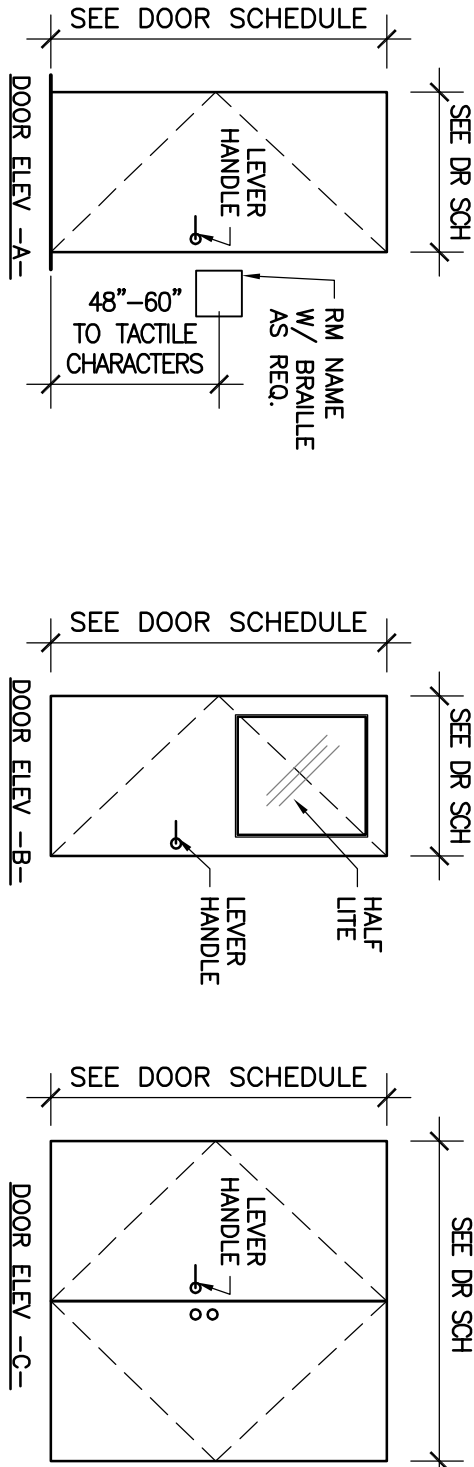
DOORS SHOWN ADJACENT TO A FLANKING WALL OR OTHER FIXED OBSTRUCTION SHALL BE LOCATED AS SHOWN ABOVE.

SIGN LOCATION NOTES:

- ALL BUILDING ENTRANCES THAT ARE ACCESSIBLE TO AND USABLE BY PERSONS WITH DISABILITIES SHALL BE IDENTIFIED BY A SIGN IDENTIFICATION BE IDENTIFIED WITH A SIGN DISPLAYING THE INTERNATIONAL SYMBOL OF ACCESSIBILITY AND WITH ADDITIONAL DIRECTIONAL SIGNS, AS REQUIRED, TO BE VISIBLE TO PERSONS ALONG APPROACHING PEDESTRIAN WAYS.
- WHEN PERMANENT IDENTIFICATION IS PROVIDED FOR ROOMS AND STORIES, PERMANENT IDENTIFIERS SHALL BE PROVIDED AND SHALL BE ACCOMPANIED BY BRAILLE. SIGNS SHALL BE INSTALLED ON THE WALL ADJACENT TO THE LATCH OUTSIDE OF THE DOOR, WHERE THERE IS NO WALL SPACE ON THE LATCH SIDE, INCLUDING AT LEAF DOORS, SIGNS SHALL BE PLACED ON THE NEAREST ADJACENT WALL, PREFERABLY ON THE RIGHT. MOUNTING HEIGHT SHALL BE 5'0" TO 6'0" ABOVE FINISHED FLOOR. MOUNTING LOCATION SHALL BE DETERMINED SO THAT THE PERSON MAY APPROACH WITHIN 3" OF THE SIGNAGE WITHOUT ENCOUNTERING PROTRUDING OBJECTS OR STANDING WITHIN THE SWING OF A DOOR. DO NOT MOUNT ON DOOR.

BRAILLE NOTES:

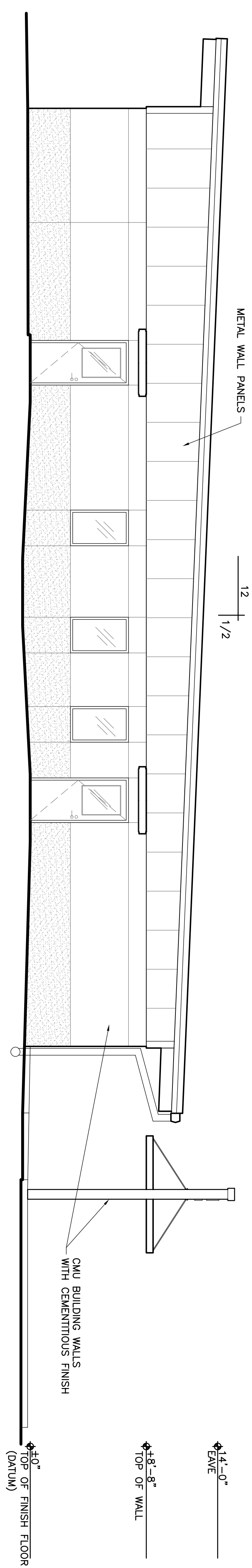
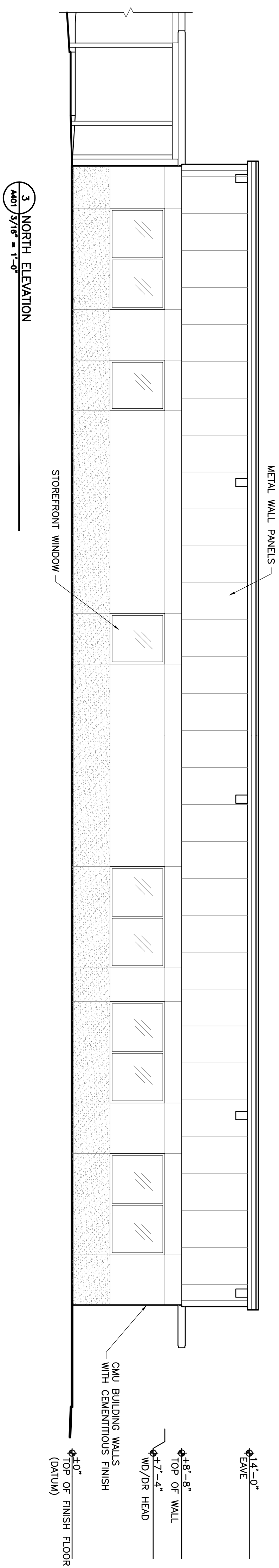
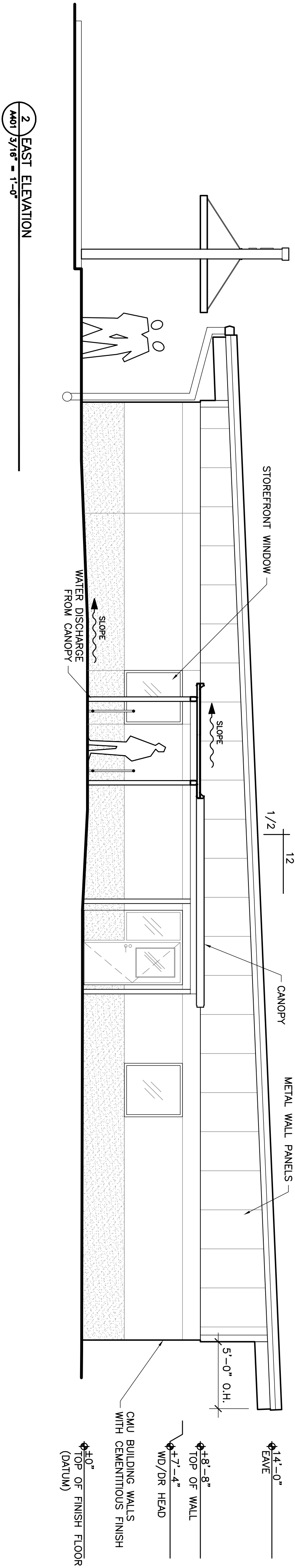
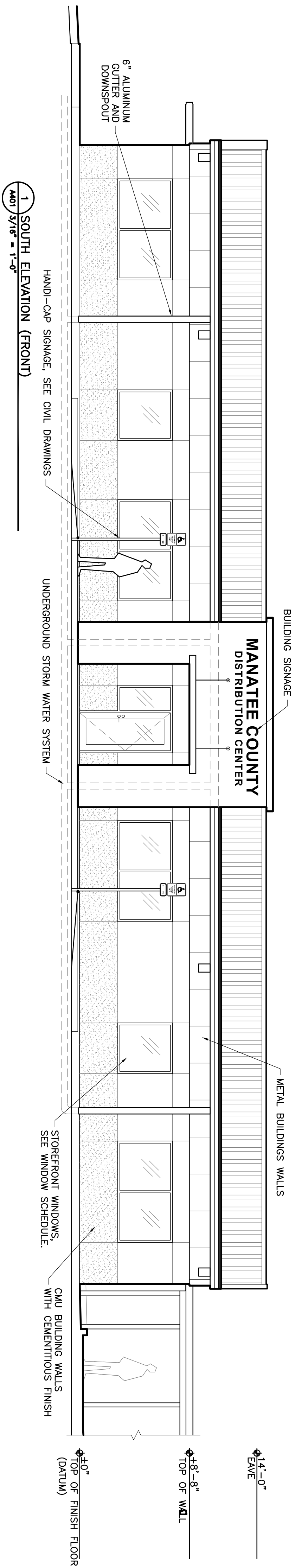
- DOORS CONTAINED GRADE 2 BRAILLE. DOTS TO BE 0.1 INCH ON CENTER IN EACH CELL, 0.2 INCH SPACE BETWEEN CELLS, DOTS RAISED MINIMUM 0.025 INCH ABOVE BACKGROUND.
- DOOR NOTES:
- ALL DISCREPANCIES SHALL BE BROUGHT TO ARCHITECTS ATTENTION PRIOR TO ORDERING.
- ALL DOORS SHALL BE PROVIDED WITH A MINIMUM OF THE FOLLOWING HARDWARE AS SHOWN WITH THE DOOR SCHEDULE.
- ALL HARDWARE SHALL BE ADA COMPLIANT AND PER CURRENT FBC.
- MANUFACTURER'S SPECIFICATIONS SUPERSEDE ANY INFORMATION CONTAINED ON THIS SHEET.
- CONTRACTOR TO VERIFY EXISTING CONDITIONS AND PROVIDE ARCHITECT WITH FULL DOOR AND HARDWARE SCHEDULE PRIOR TO ORDERING KENING SYSTEM WITH OWNER AND PROVIDE LOOKS MASTERKEYED TO EXISTING SYSTEM.



DOOR HARDWARE SCHEDULE

- BUTT HINGES, CLASSROOM LOCKSET W/AUXILIARY DEAD LATCH ABOVE, WEATHER STRIPPING, CYLINDERS, AND SILENCERS.
- BUTT HINGES, CLOSER, WEATHER STRIPPING, WALL STOP, PANIC HARDWARE, CYLINDERS, AND SILENCERS.
- BUTT HINGES, PASSAGE LOCKSET, CYLINDERS, WALL STOP, AND SILENCER.
- BUTT HINGES, PRIVACY LOCKSET, OVERHEAD CLOSER, CYLINDERS, WALL STOP, AND SILENCER.
- BUTT HINGES, CLOSET LOCKSET, CYLINDERS, WALL STOP AND SILENCER.
- BUTT HINGES, OFFICE LOCKSET, CYLINDERS, WALL STOP, AND SILENCER.
- BUTT HINGES, CLASSROOM LOCKSET, CYLINDERS, WALL STOP, AND SILENCER.

DOOR AND FRAME SCHEDULE					NOTES
#	EL	SIZE WD HGT	MATL	FINISH EL	
200	A	3'-0" 7'-0"	HM	PAINTED	2
201	A	3'-0" 7'-0"	HM	PAINTED	2
202	C	6'-0" 7'-0"	HM	PAINTED	2
203	A	3'-0" 7'-0"	HM	PAINTED	1
204	B	3'-0" 7'-0"	HM	PAINTED	1
205	B	3'-0" 7'-0"	HM	PAINTED	1
206	B	3'-0" 7'-0"	HM	PAINTED	1
207	A	3'-0" 7'-0"	HM	PAINTED	1
208	A	3'-0" 7'-0"	HM	PAINTED	1
209	B	3'-0" 7'-0"	HM	PAINTED	1
210	B	3'-0" 7'-0"	HM	PAINTED	1
211	A	3'-0" 7'-0"	HM	PAINTED	1
212	B	3'-0" 7'-0"	HM	PAINTED	1
213	A	3'-0" 7'-0"	HM	PAINTED	1
214	A	3'-0" 7'-0"	HM	PAINTED	1
215	A	3'-0" 7'-0"	HM	PAINTED	1
216	A	3'-0" 7'-0"	HM	PAINTED	1
217	B	3'-0" 7'-0"	HM	PAINTED	1
218	A	3'-0" 7'-0"	HM	PAINTED	1
219	B	3'-0" 7'-0"	HM	PAINTED	1
220	B	3'-0" 7'-0"	HM	PAINTED	1



ANNEX BUILDING - EXTERIOR ELEVATIONS

MANATEE COUNTY BUILDING OPERATION FACILITY

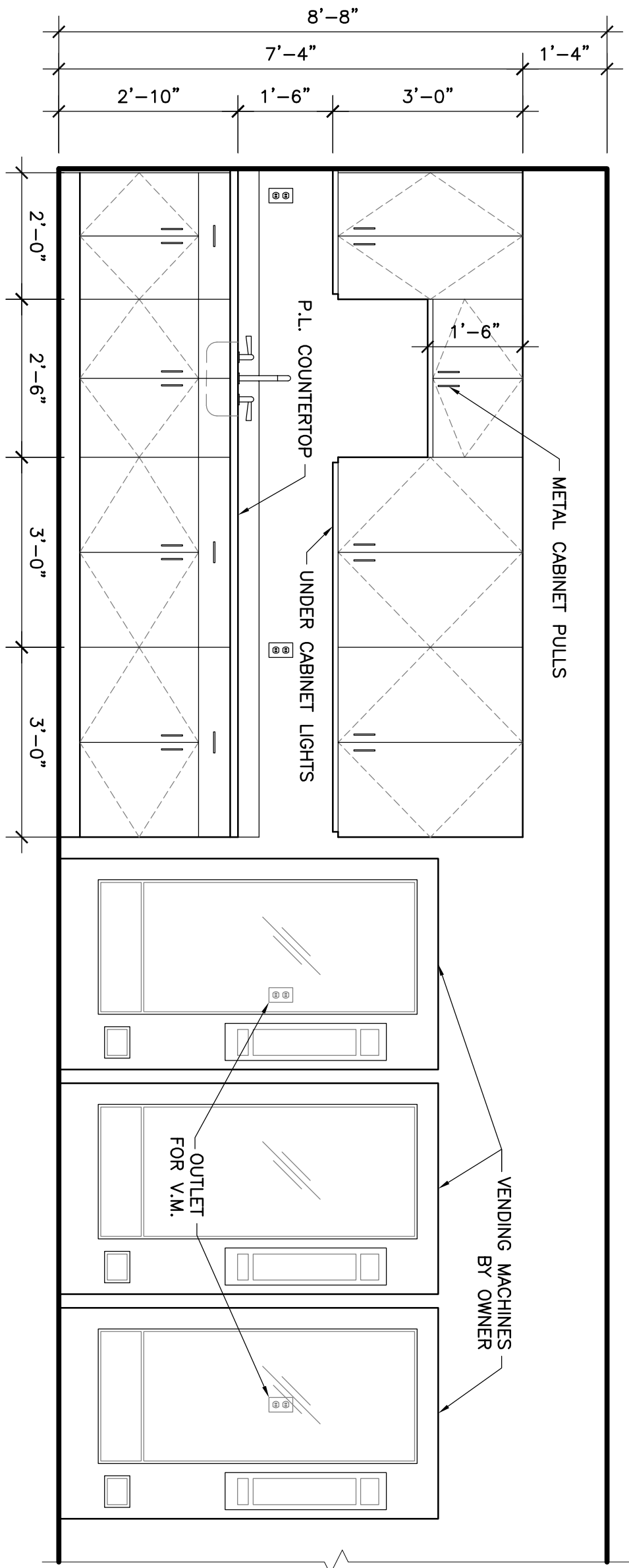
4410 66TH STREET WEST, BRADENTON FLORIDA

REVISIONS

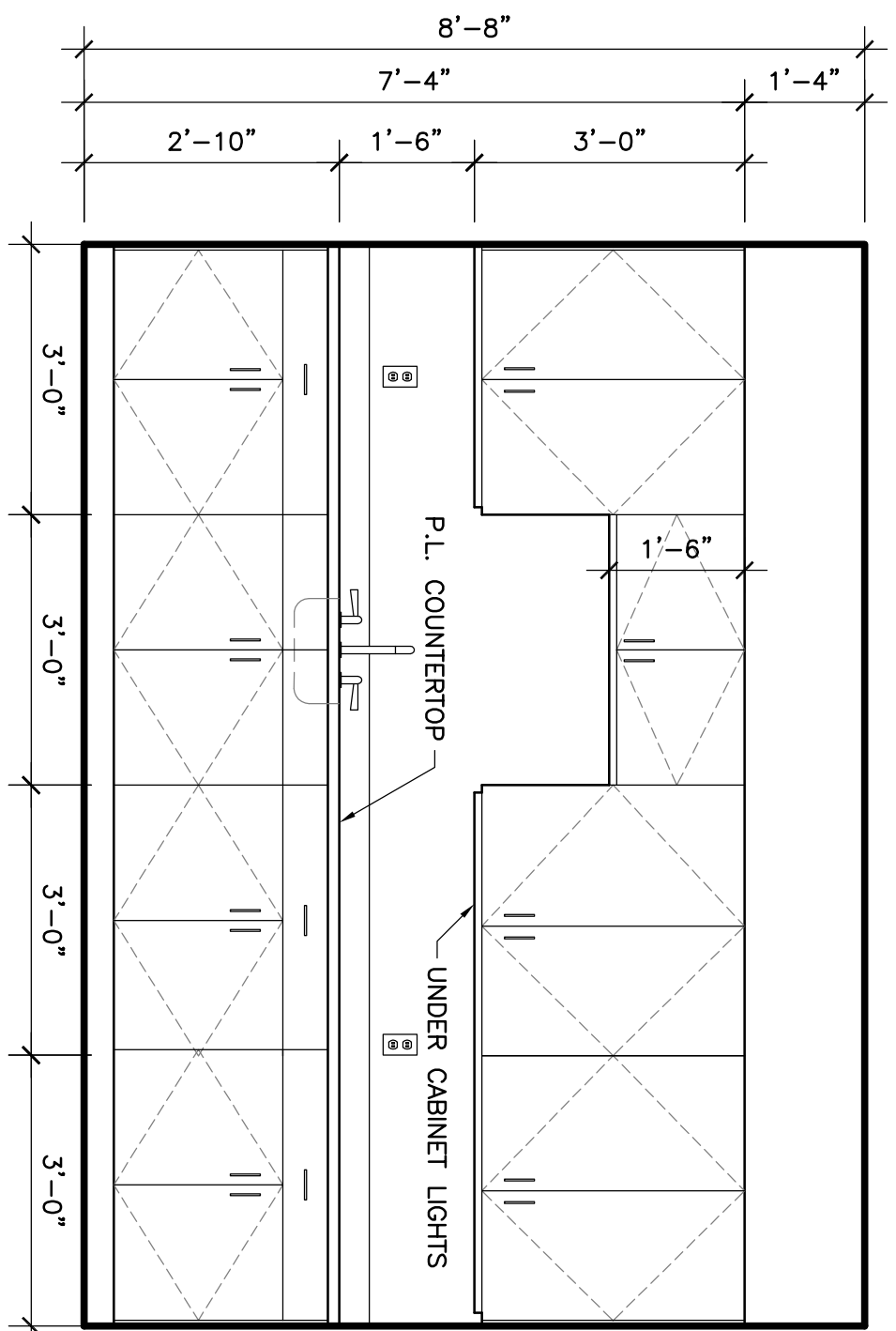
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PROJECT NO: 2013-46	DATE: 11/12/13
DRAWN BY: :	CHECKED BY: :
CARLOS D. UGARTE LIC. NO. AR-0010725	
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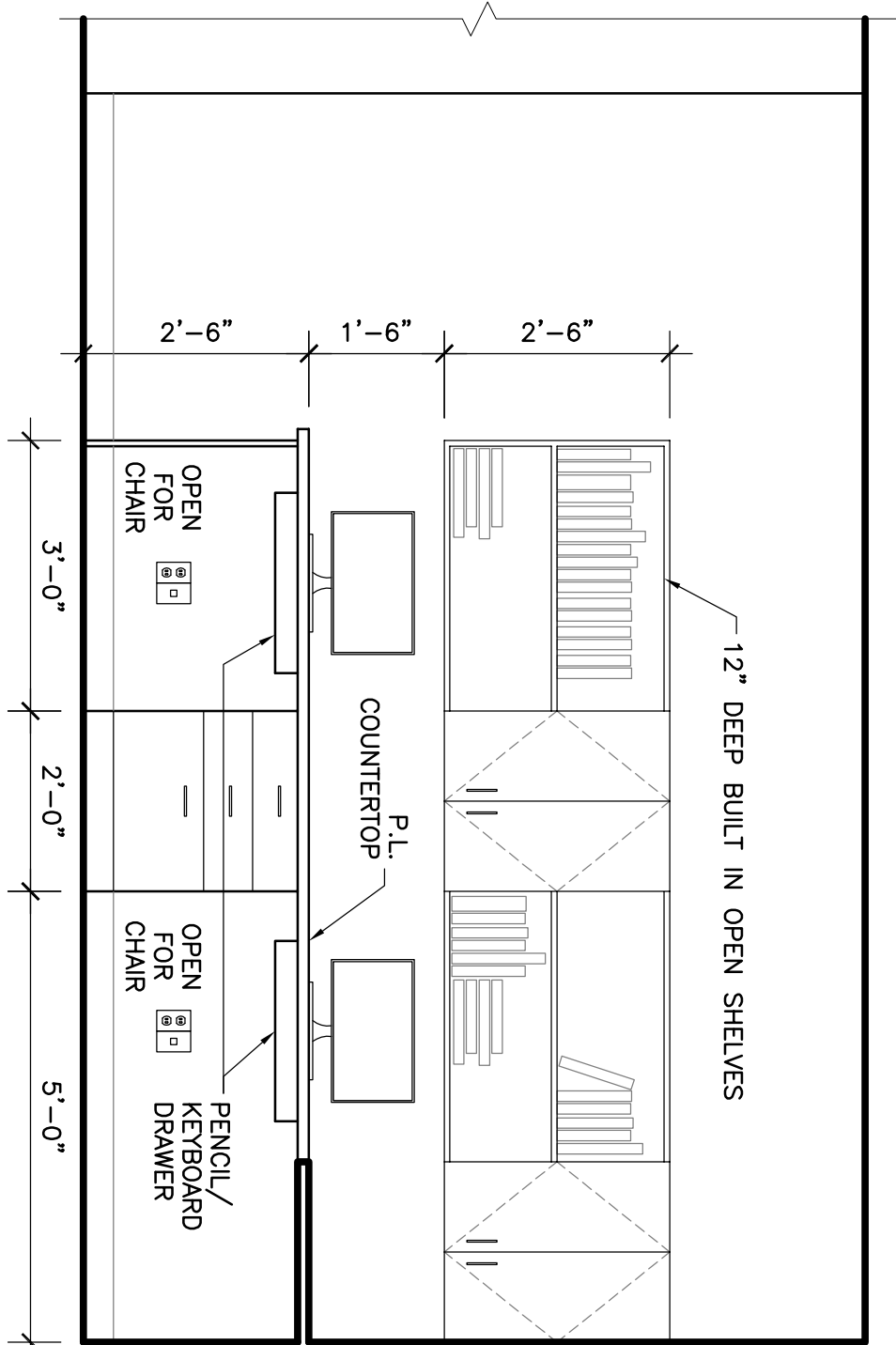
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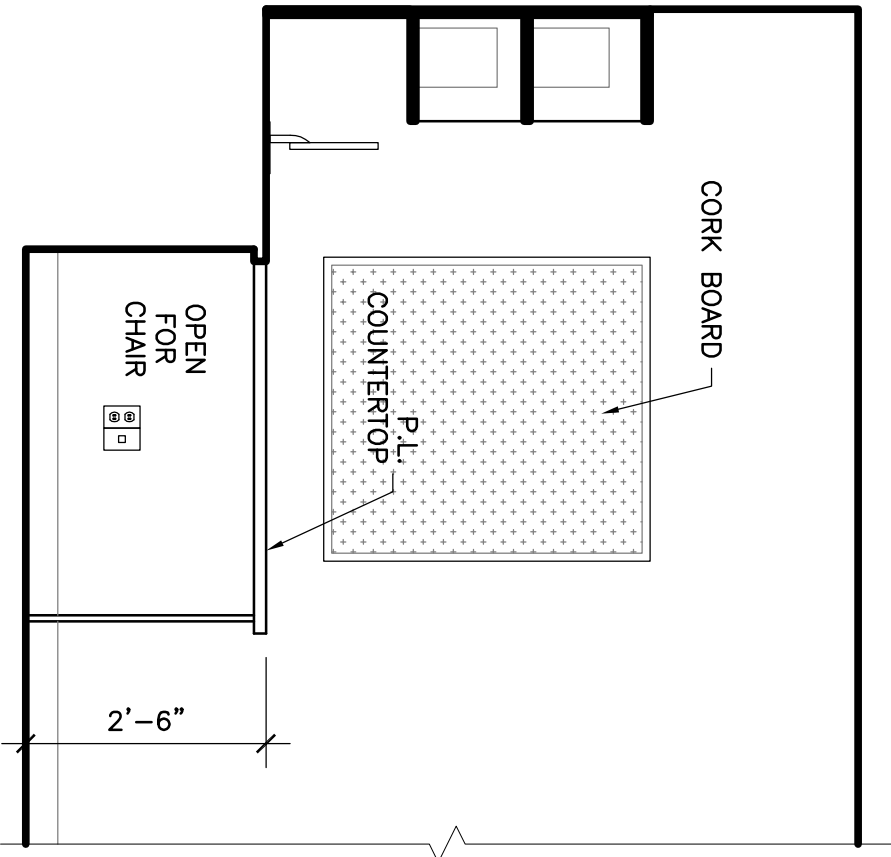
1 INTERIOR CASEWORK ELEVATION
A402 1/2" = 1'-0"



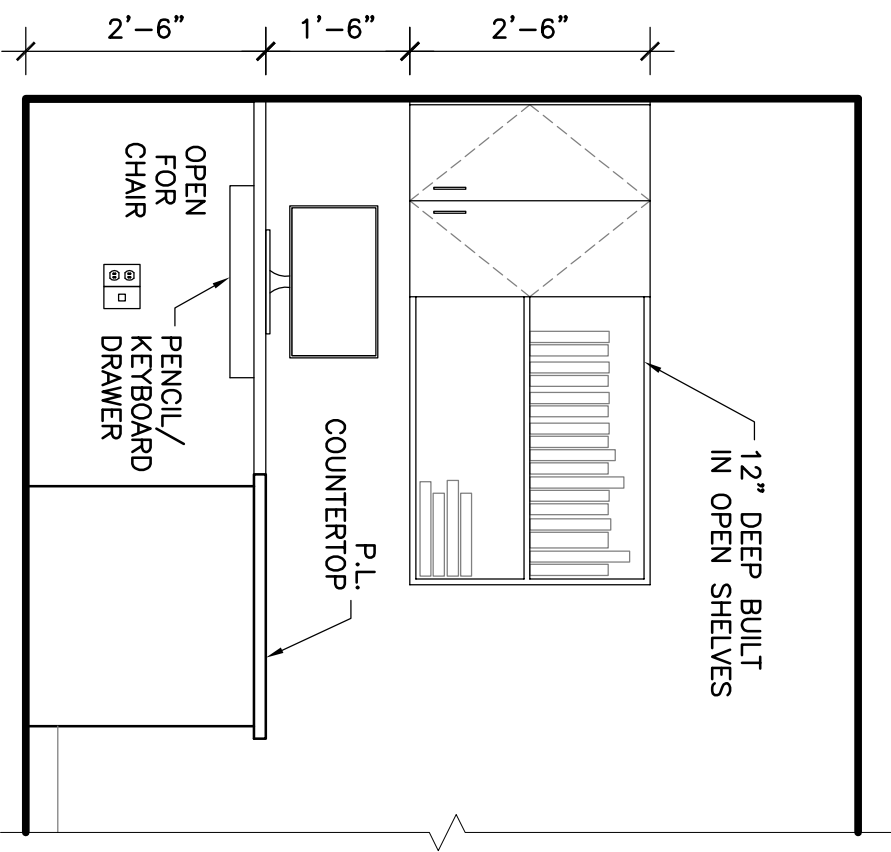
2 INTERIOR CASEWORK ELEVATION
A402 1/2" = 1'-0"



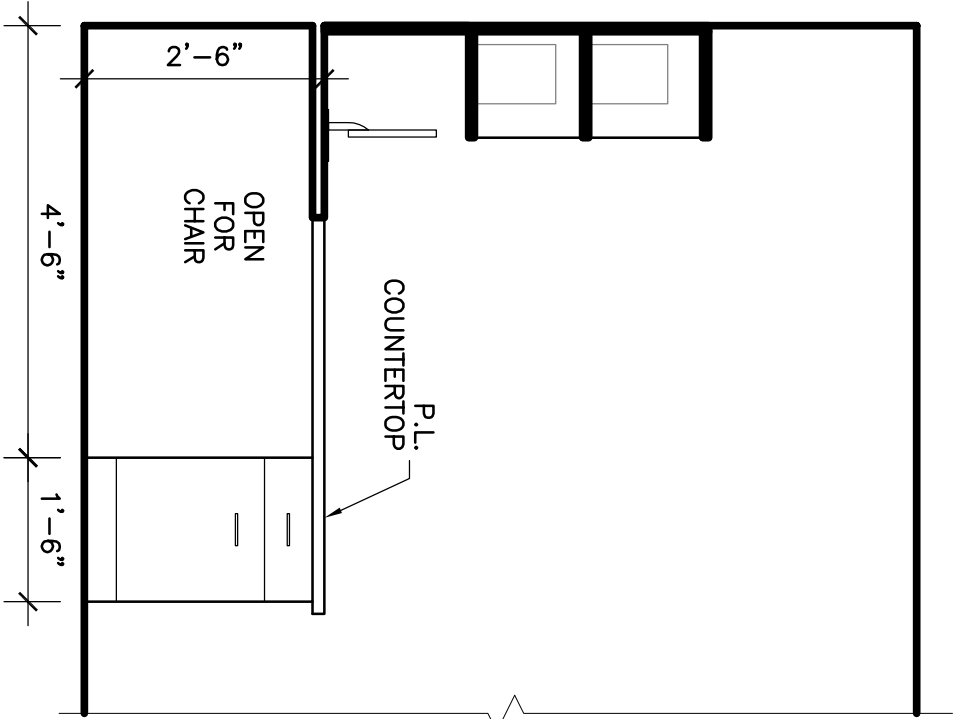
3 INTERIOR CASEWORK ELEVATION
A402 1/2" = 1'-0"



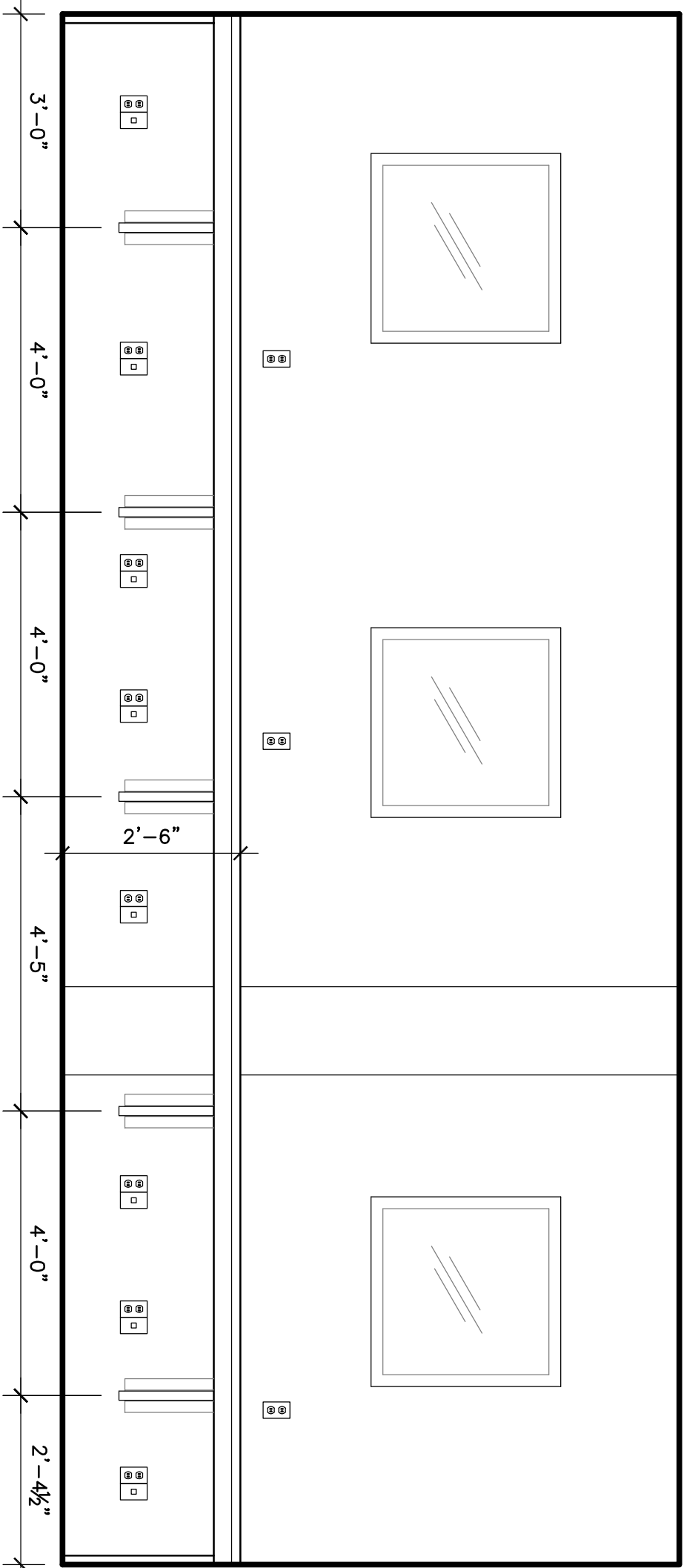
4 INTERIOR CASEWORK ELEVATION
A402 1/2" = 1'-0"



5 INTERIOR CASEWORK ELEVATION
A402 1/2" = 1'-0"



6 INTERIOR CASEWORK ELEVATION
A402 1/2" = 1'-0"



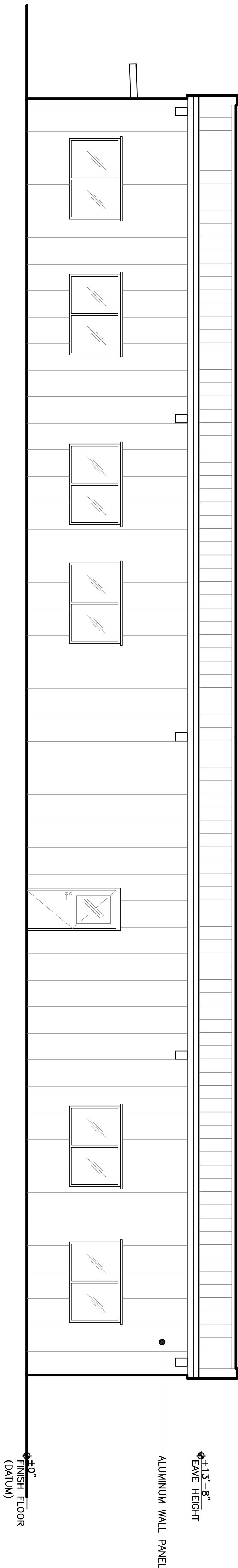
7 INTERIOR CASEWORK ELEVATION
A402 1/2" = 1'-0"



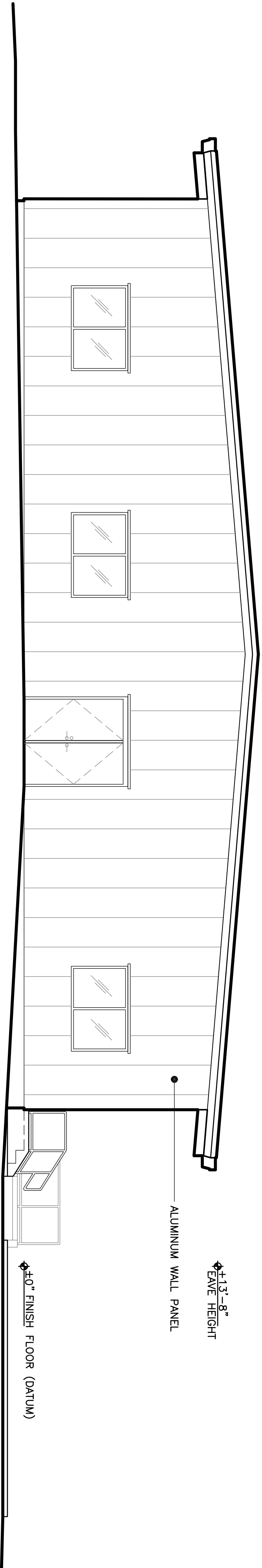
1 SOUTH ELEVATION
1/8" = 1'-0"



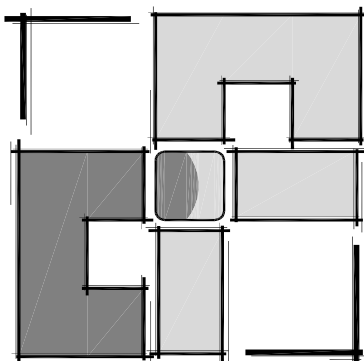
2 EAST ELEVATION
1/8" = 1'-0"



3 NORTH ELEVATION
1/8" = 1'-0"



4 WEST ELEVATION
1/8" = 1'-0"



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OPERATIONS BUILDING - EXTERIOR ELEVATIONS

MANATEE COUNTY BUILDING OPERATION FACILITY

4410 66TH STREET WEST, BRADENTON FLORIDA

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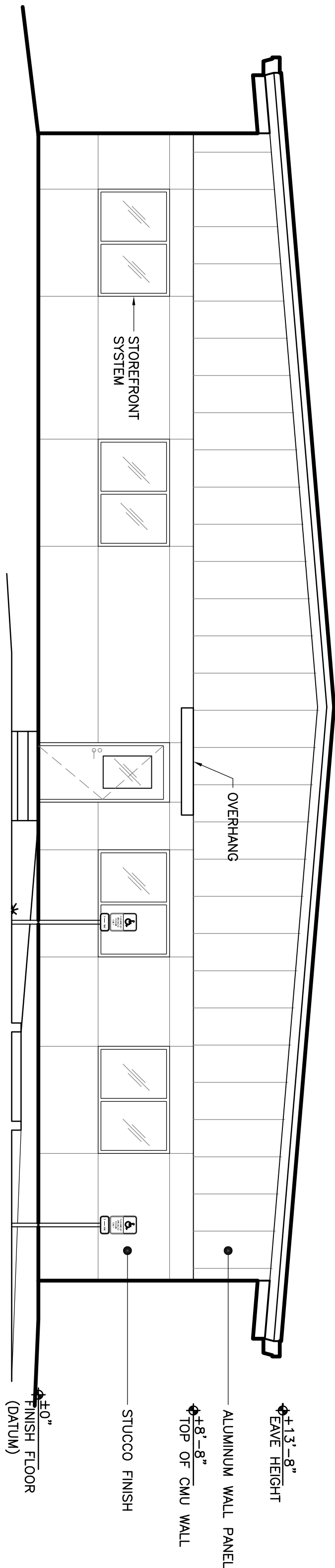
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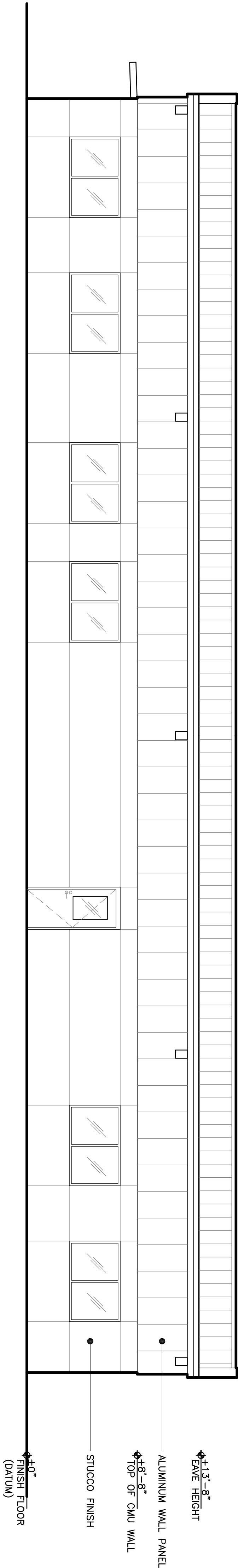
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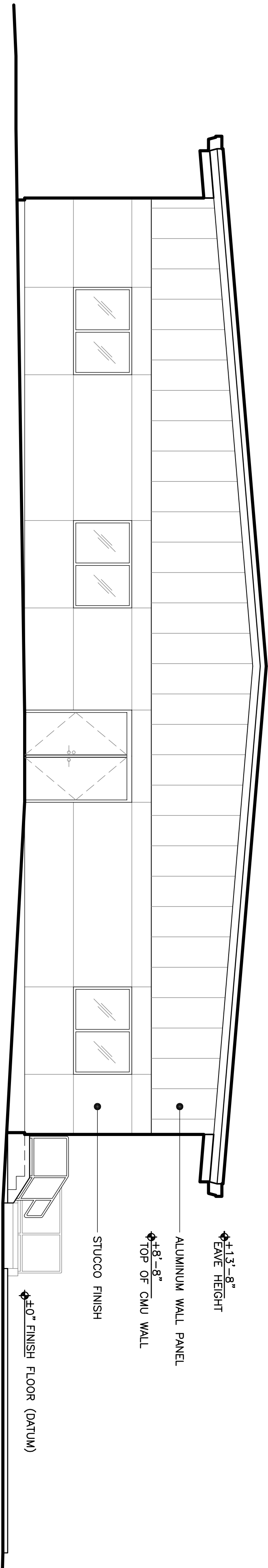
1 SOUTH ELEVATION
A451 3/16" = 1'-0"



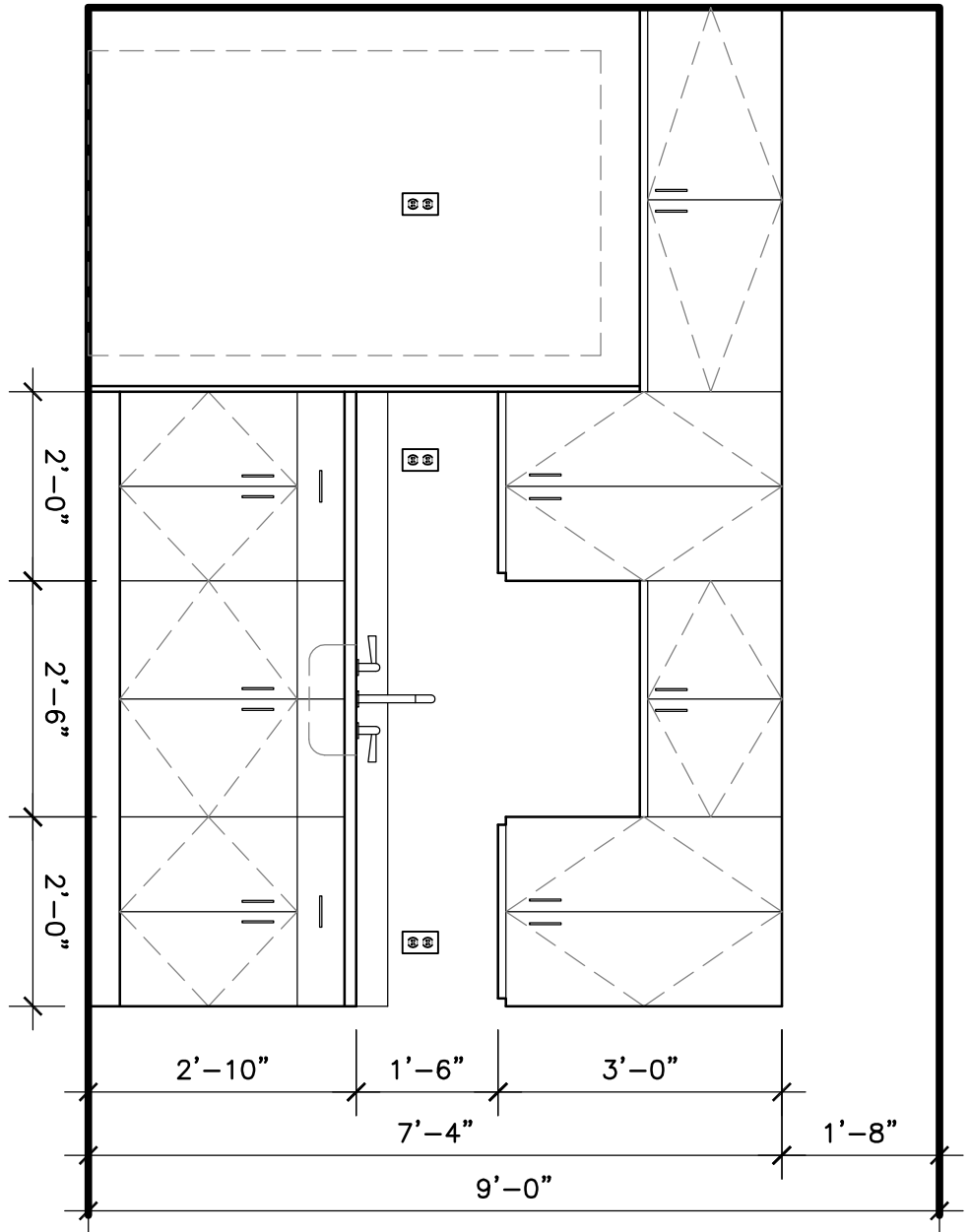
2 EAST ELEVATION
A451 3/16" = 1'-0"



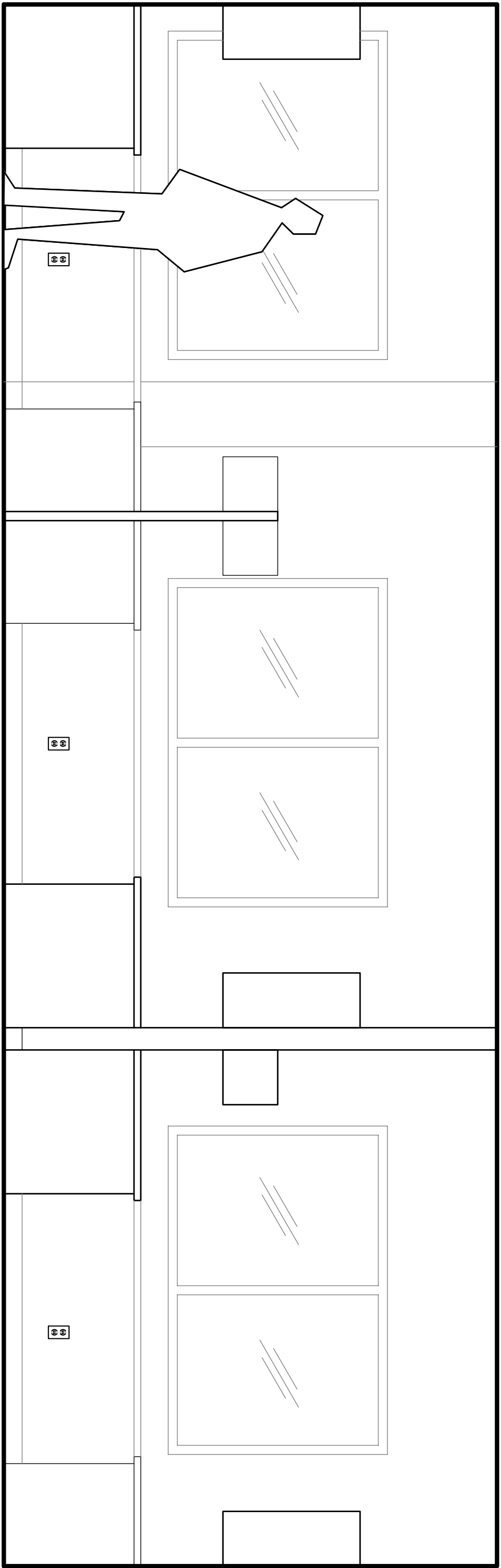
3 NORTH ELEVATION
A451 3/16" = 1'-0"



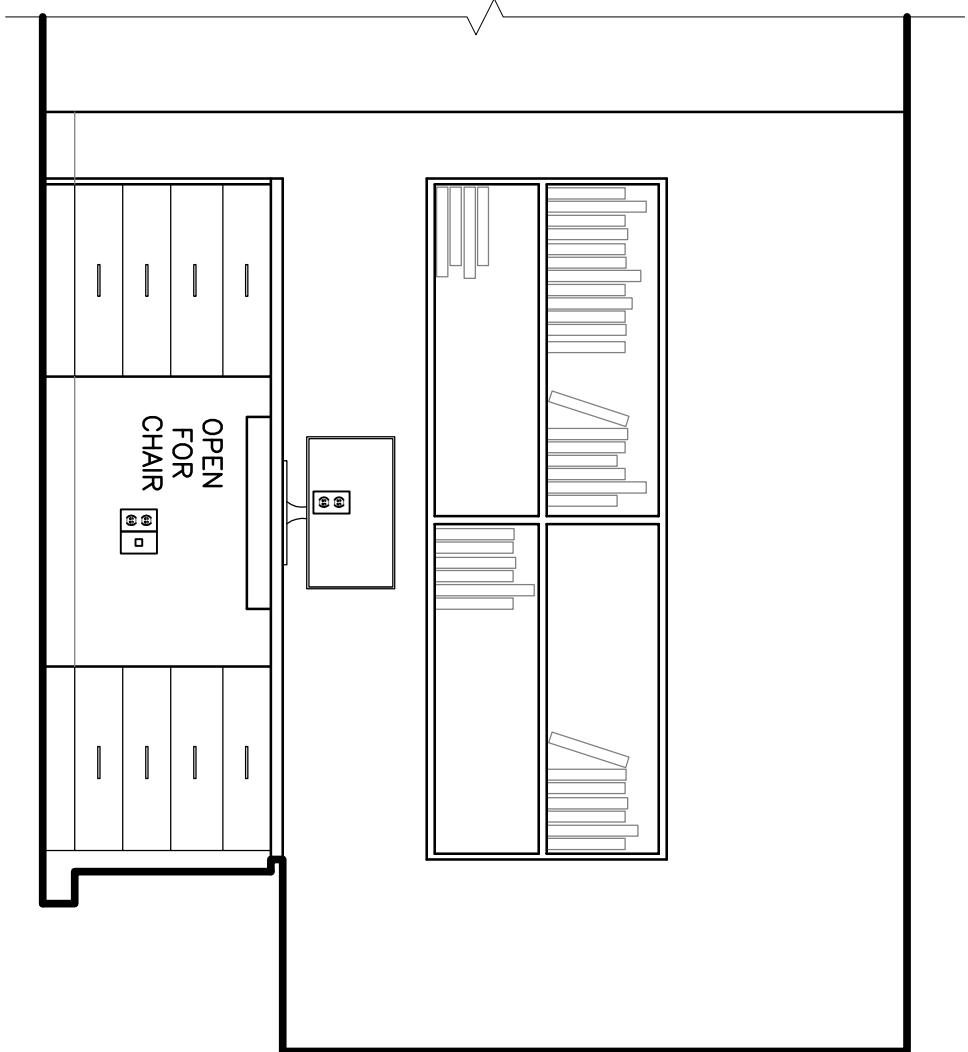
4 WEST ELEVATION
A451 3/16" = 1'-0"



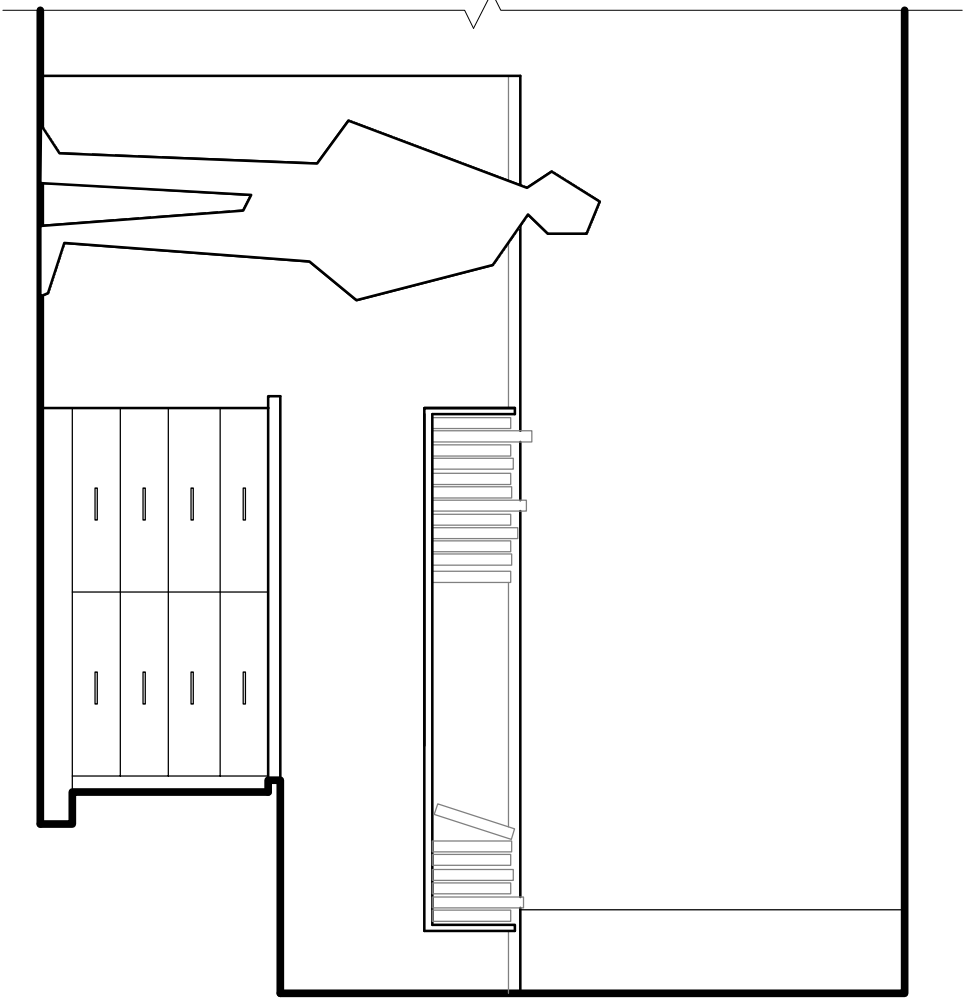
1 INTERIOR CASEWORK ELEVATION
A453 1/2" = 1'-0"



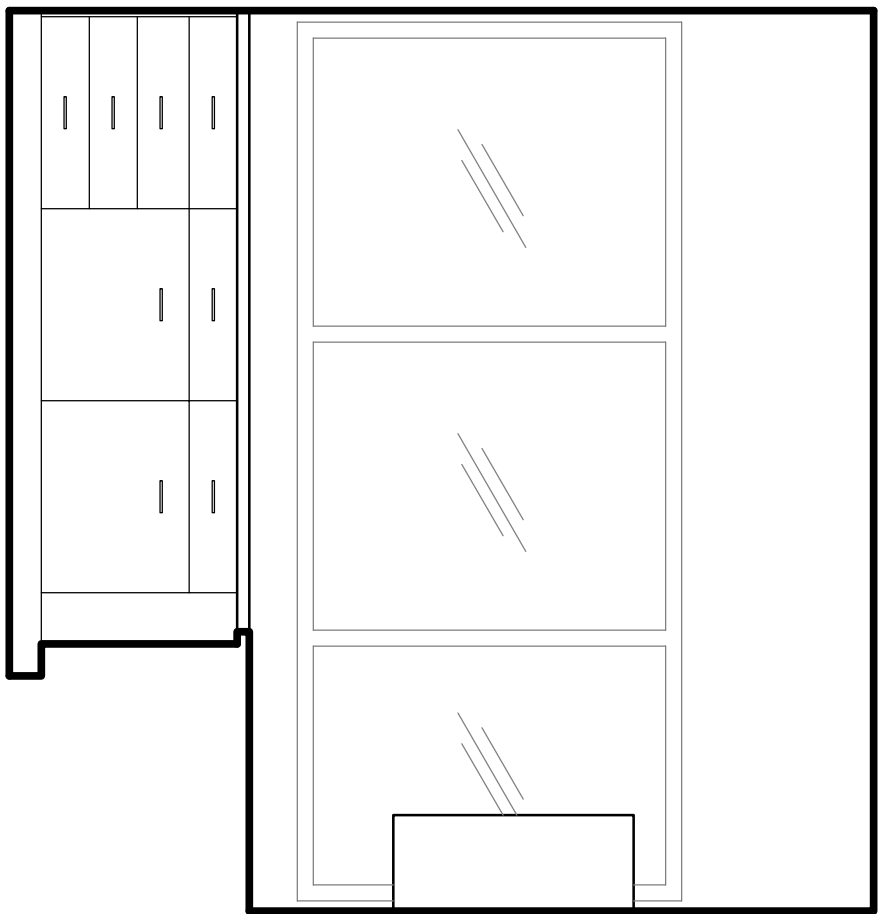
2 INTERIOR CASEWORK ELEVATION
A453 1/2" = 1'-0"



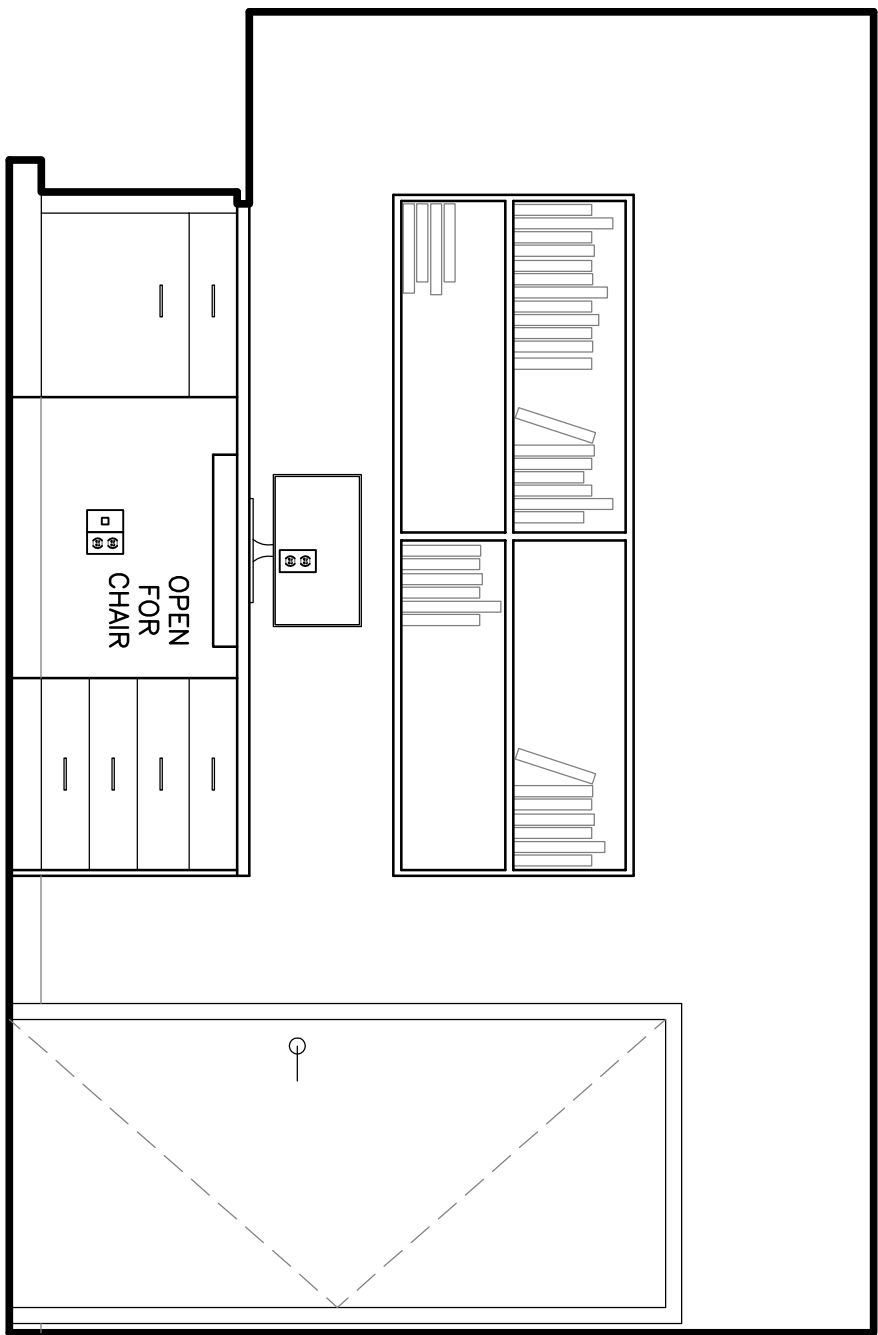
3 INTERIOR CASEWORK ELEVATION
A453 1/2" = 1'-0"



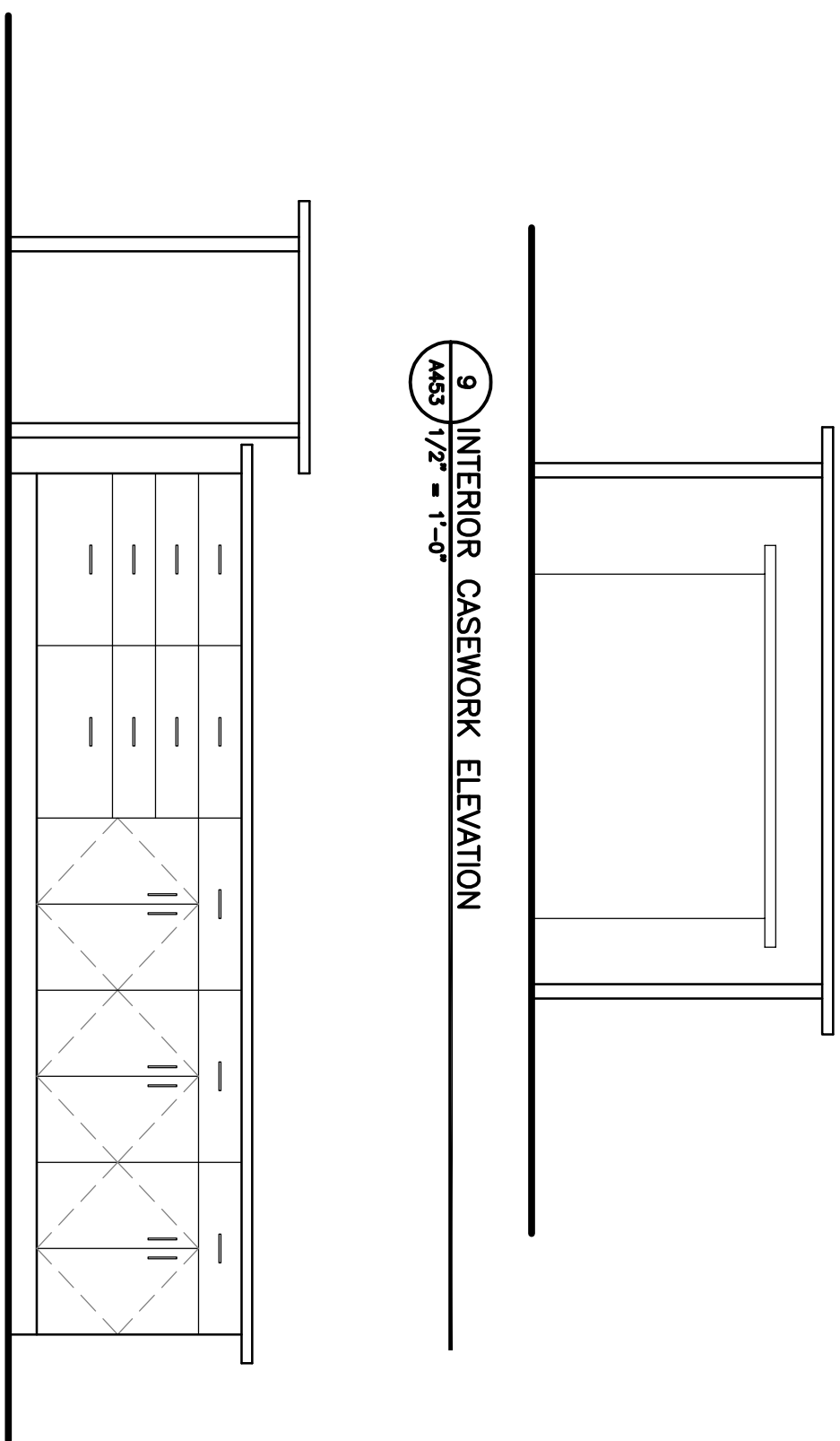
4 INTERIOR CASEWORK ELEVATION
A453 1/2" = 1'-0"



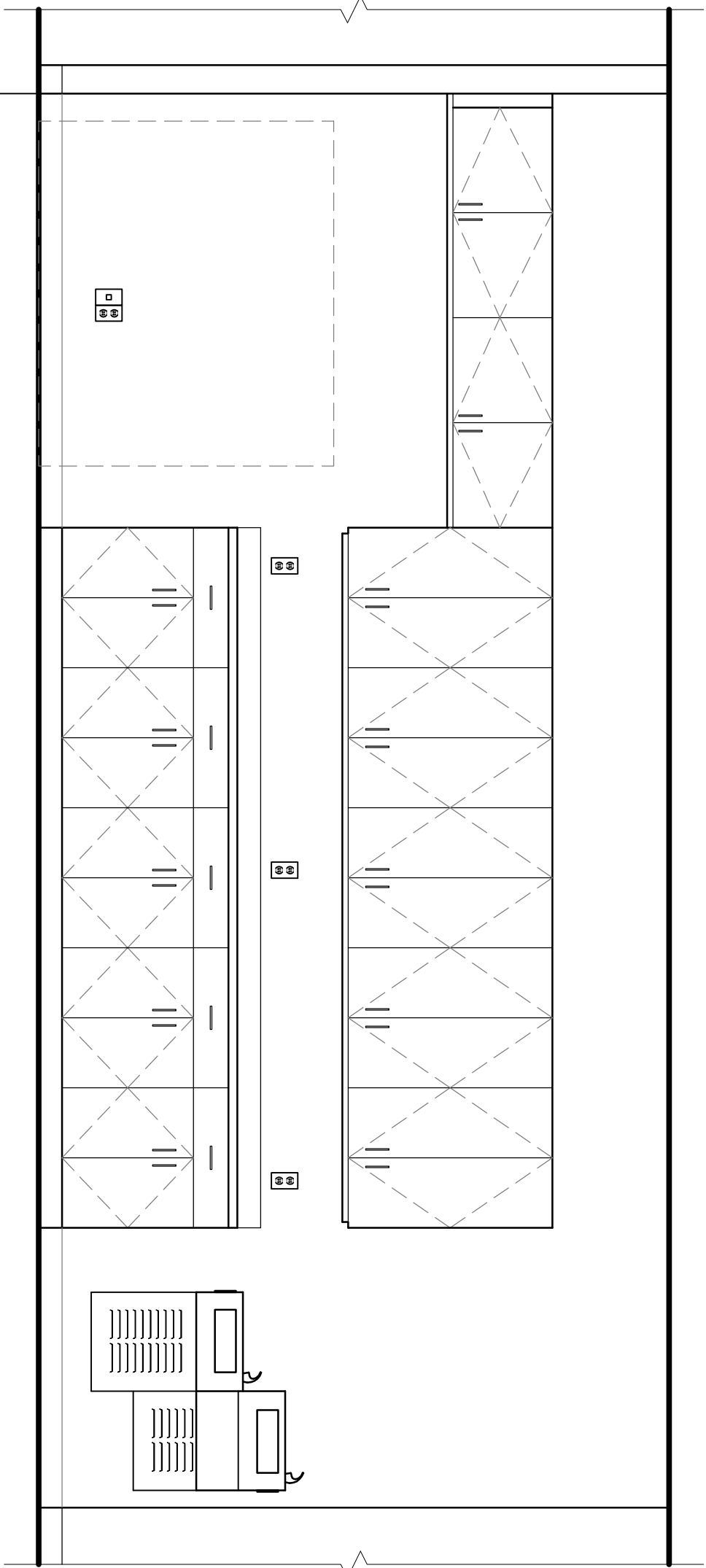
5 INTERIOR CASEWORK ELEVATION
A453 1/2" = 1'-0"



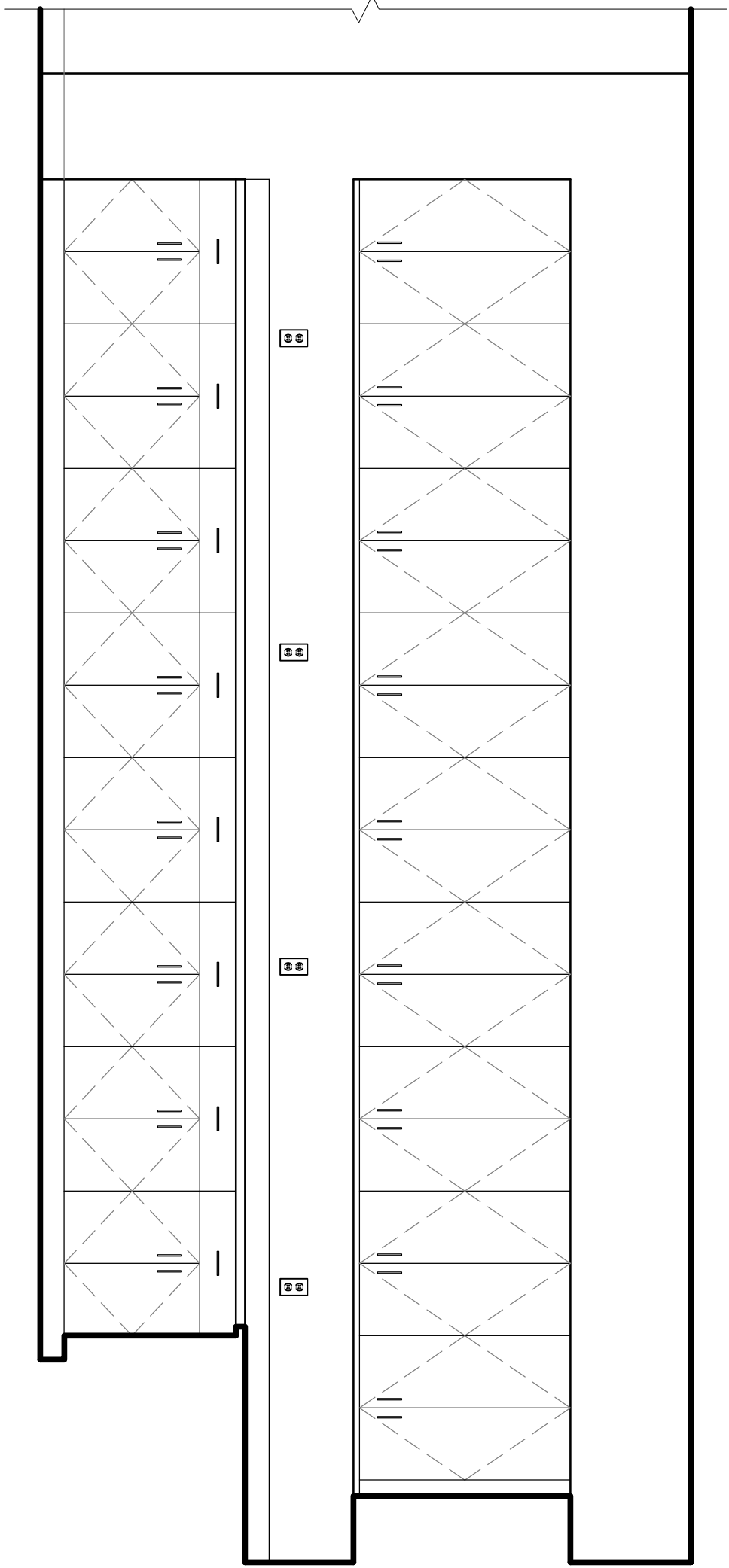
6 INTERIOR CASEWORK ELEVATION
A453 1/2" = 1'-0"



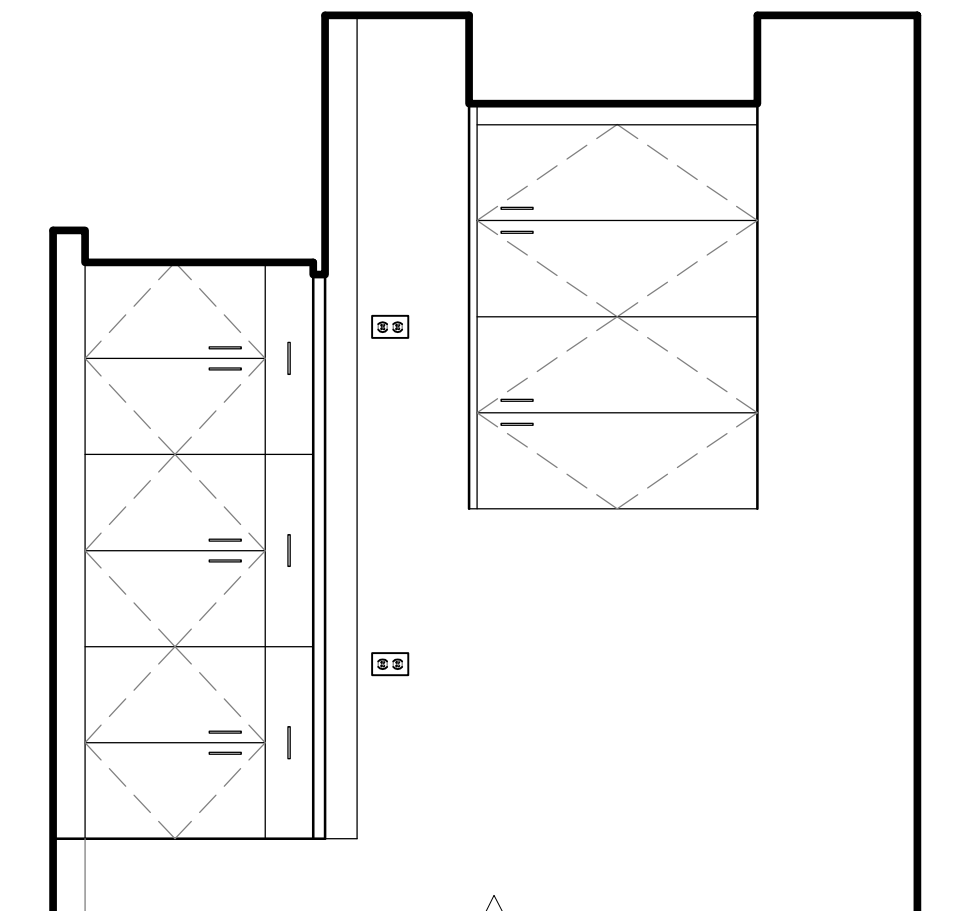
9 INTERIOR CASEWORK ELEVATION
A453 1/2" = 1'-0"



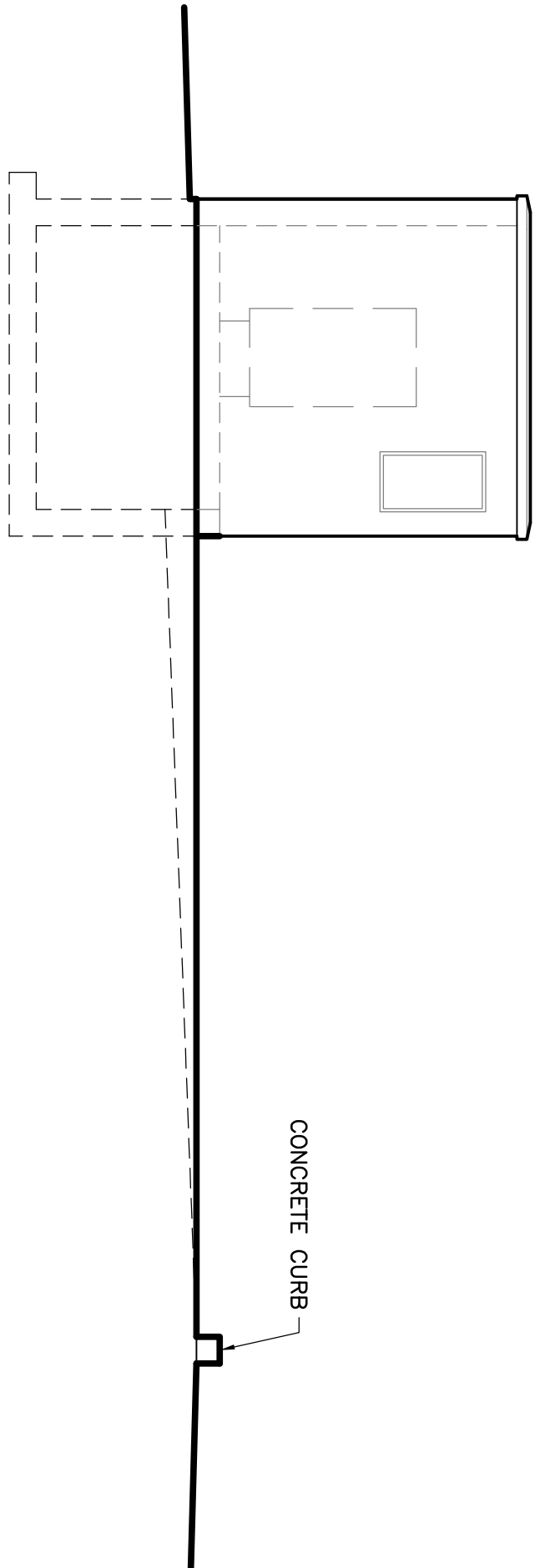
7 INTERIOR CASEWORK ELEVATION
A453 1/2" = 1'-0"



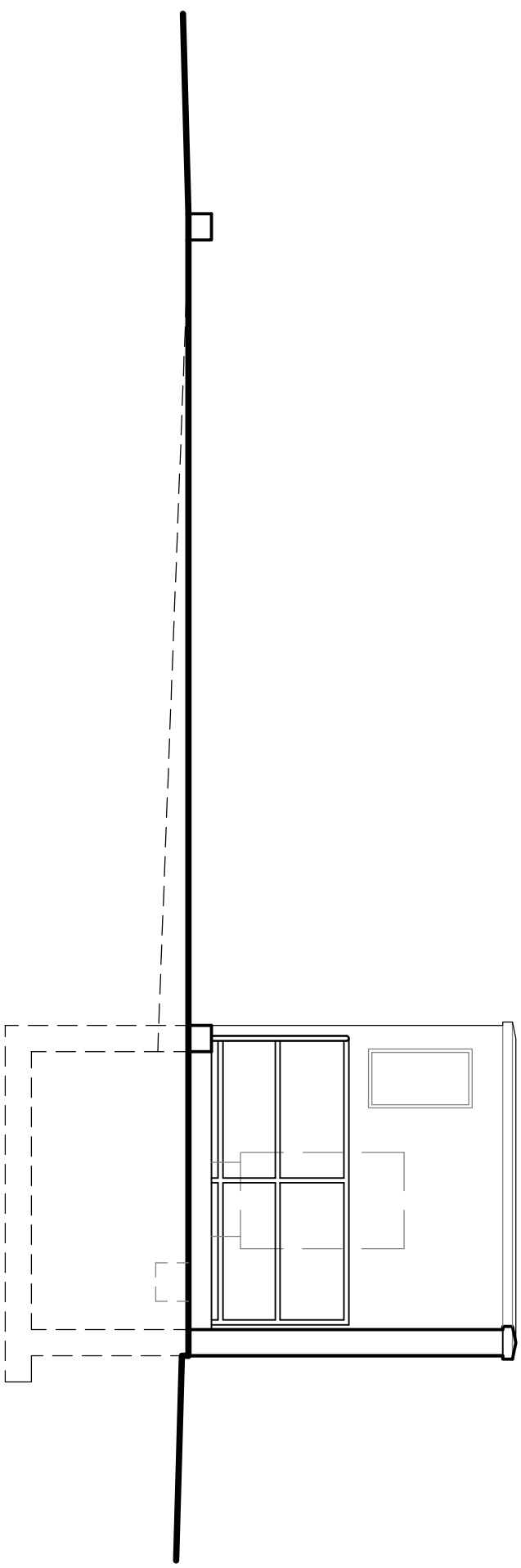
10 INTERIOR CASEWORK ELEVATION
A453 1/2" = 1'-0"



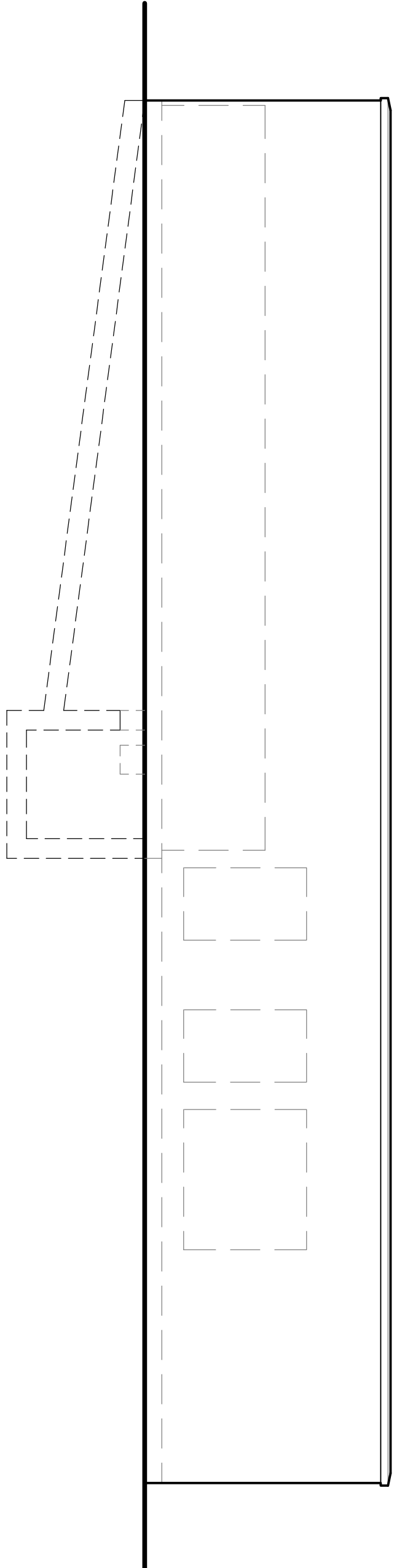
11 INTERIOR CASEWORK ELEVATION
A453 1/2" = 1'-0"



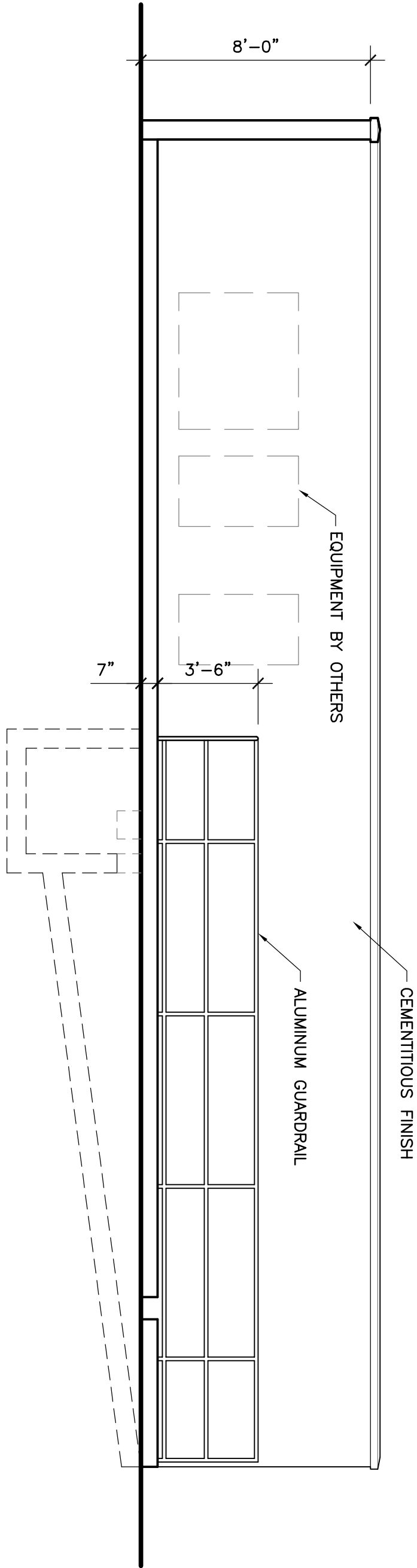
1 EAST ELEVATION
1/4" = 1'-0"



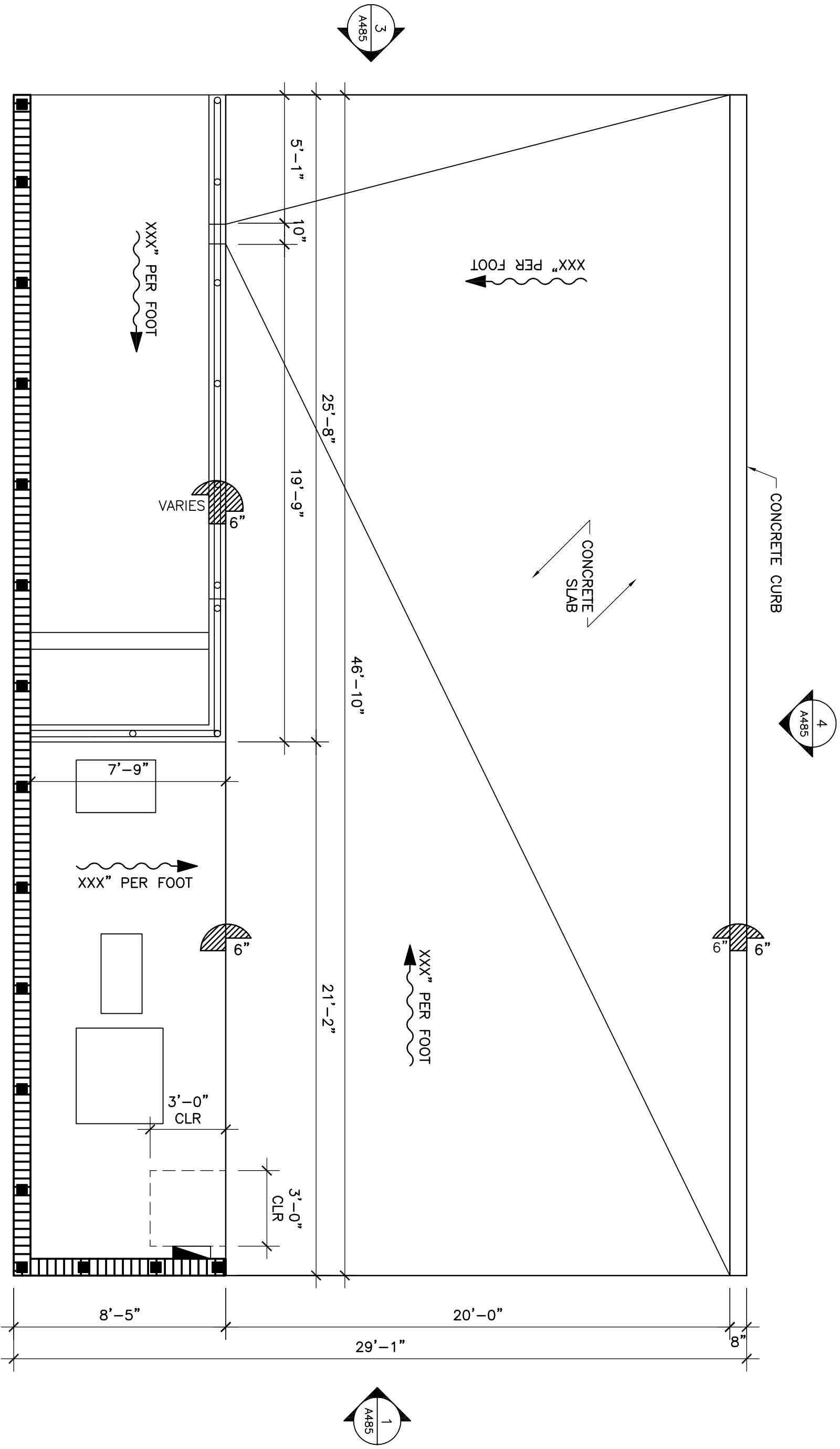
3 WEST ELEVATION
1/4" = 1'-0"



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

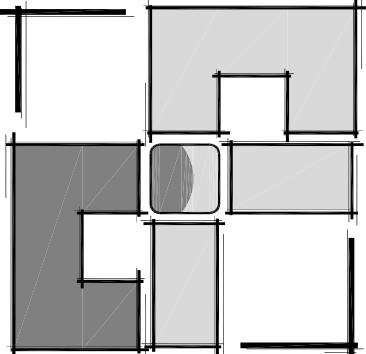


4 NORTH ELEVATION
1/2" = 1'-0"



2

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



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ANNEX BUILDING - BUILDING SECTIONS

MANATEE COUNTY BUILDING OPERATION FACILITY

4410 66TH STREET WEST, BRADENTON FLORIDA

REVISIONS

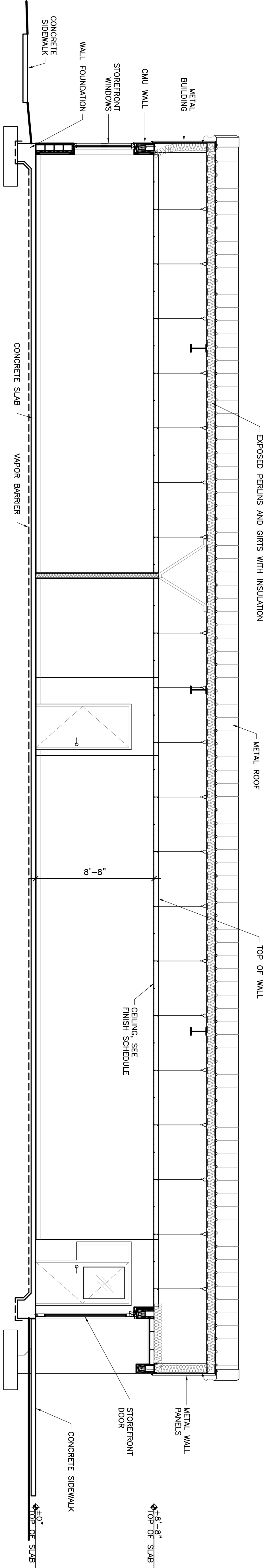
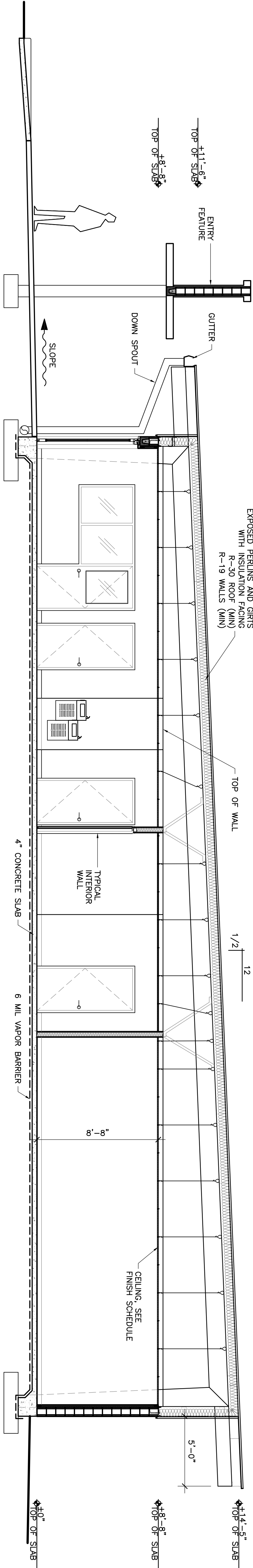
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CHKD BY: -
CARLOS D. UGARTE
LIC. NO. AR-0010725

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OPERATIONS BUILDING - BUILDING SECTIONS

MANATEE COUNTY BUILDING OPERATION FACILITY

4410 66TH STREET WEST, BRADENTON FLORIDA

REVISIONS

PROJECT NO.: 2012-46
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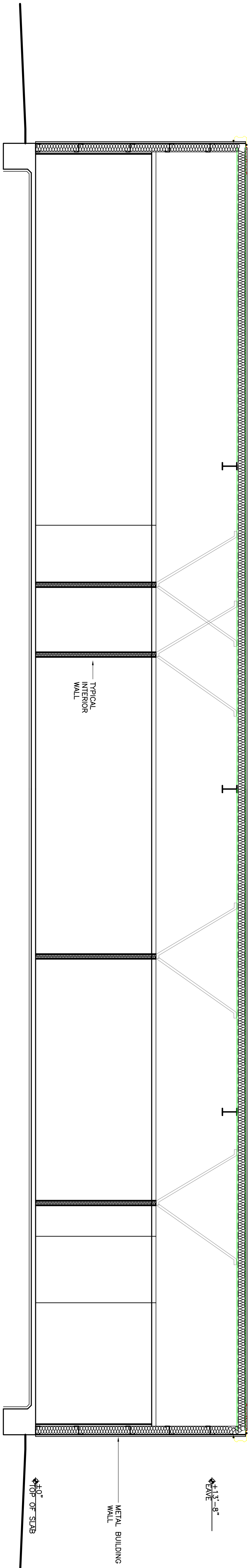
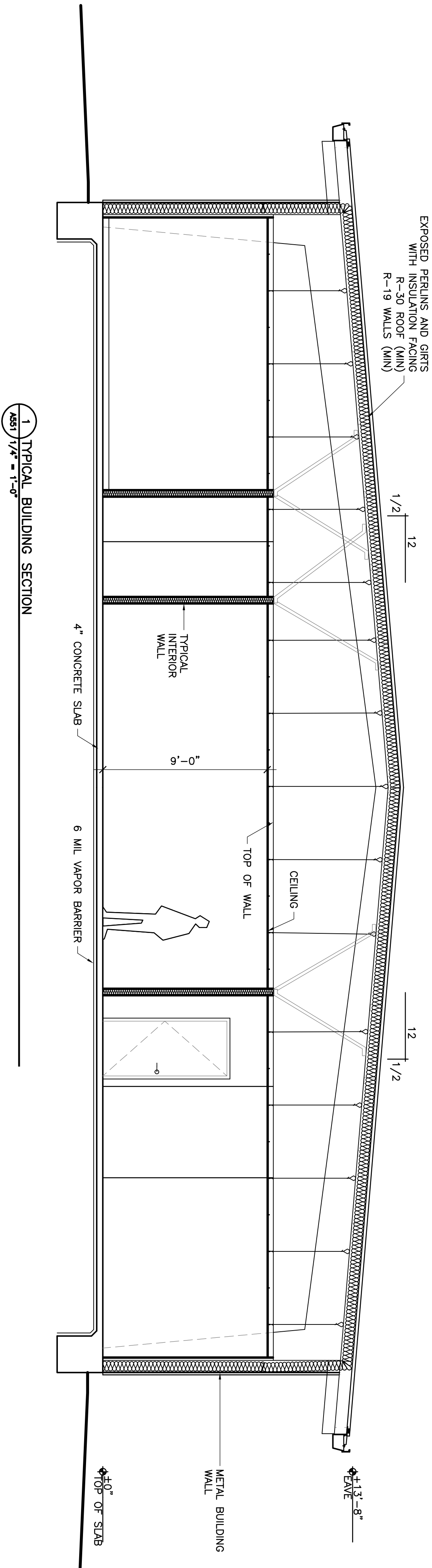
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OPERATIONS BUILDING -
BUILDING SECTIONS

MANATEE COUNTY BUILDING
OPERATION FACILITY

4410 66TH STREET WEST, BRADENTON FLORIDA

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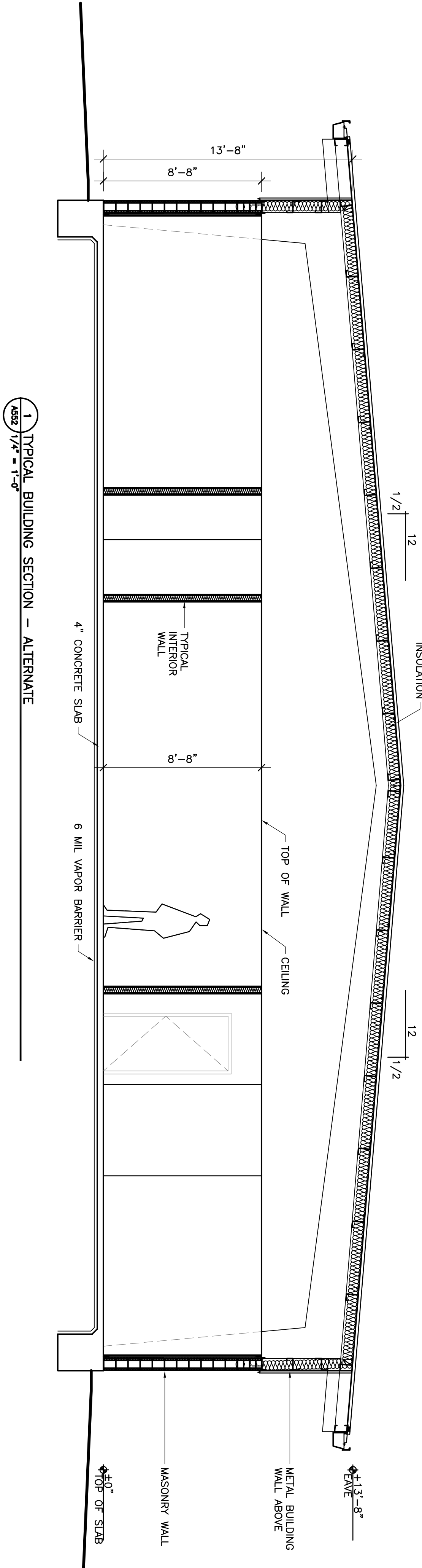
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F:\10 Jan 2014 - 2:11pm W. \road\MANATEE COUNTY UTILITIES DISTRIBUTION CENTER (43274)\ENG\VCLS-COV-NEW.dwg

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☒ PLANTING & IRRIGATION NOTES & DETAILS.....	LS-03
☒ IRRIGATION PLAN.....	LS-04
☒ INCLUDED IN THIS SET.....	

NOTES:

1. THERE ARE NO KNOWN FOUNDATIONS, MOUNDS OR MIDDEN AREAS OF HISTORIC ORIGIN, PLATTED STREETS LOCATED ON THIS SITE.
2. THERE ARE NO KNOWN WELLS WITHIN THE BOUNDARIES OF THIS PLAN.
3. COMMON OPEN SPACE SHALL BE OWNED AND MAINTAINED BY MANATEE COUNTY.
4. CONSTRUCTION WILL START SEPTEMBER 2014 AND END MARCH 2015.
5. THE POTABLE WATER AND SANITARY SEWER SYSTEMS WILL BE CONSTRUCTED PER THE LATEST MANATEE COUNTY STANDARDS AND WILL BE OWNED AND MAINTAINED BY MANATEE COUNTY.
6. SOLID WASTE DISPOSAL WILL BE PROVIDED BY MANATEE COUNTY.
10. THERE ARE NO WETLANDS ONSITE.
7. THERE ARE NO PROPOSED PUBLIC USE AREAS ONSITE.
8. THERE ARE NO PERENNIAL STREAMS ONSITE.

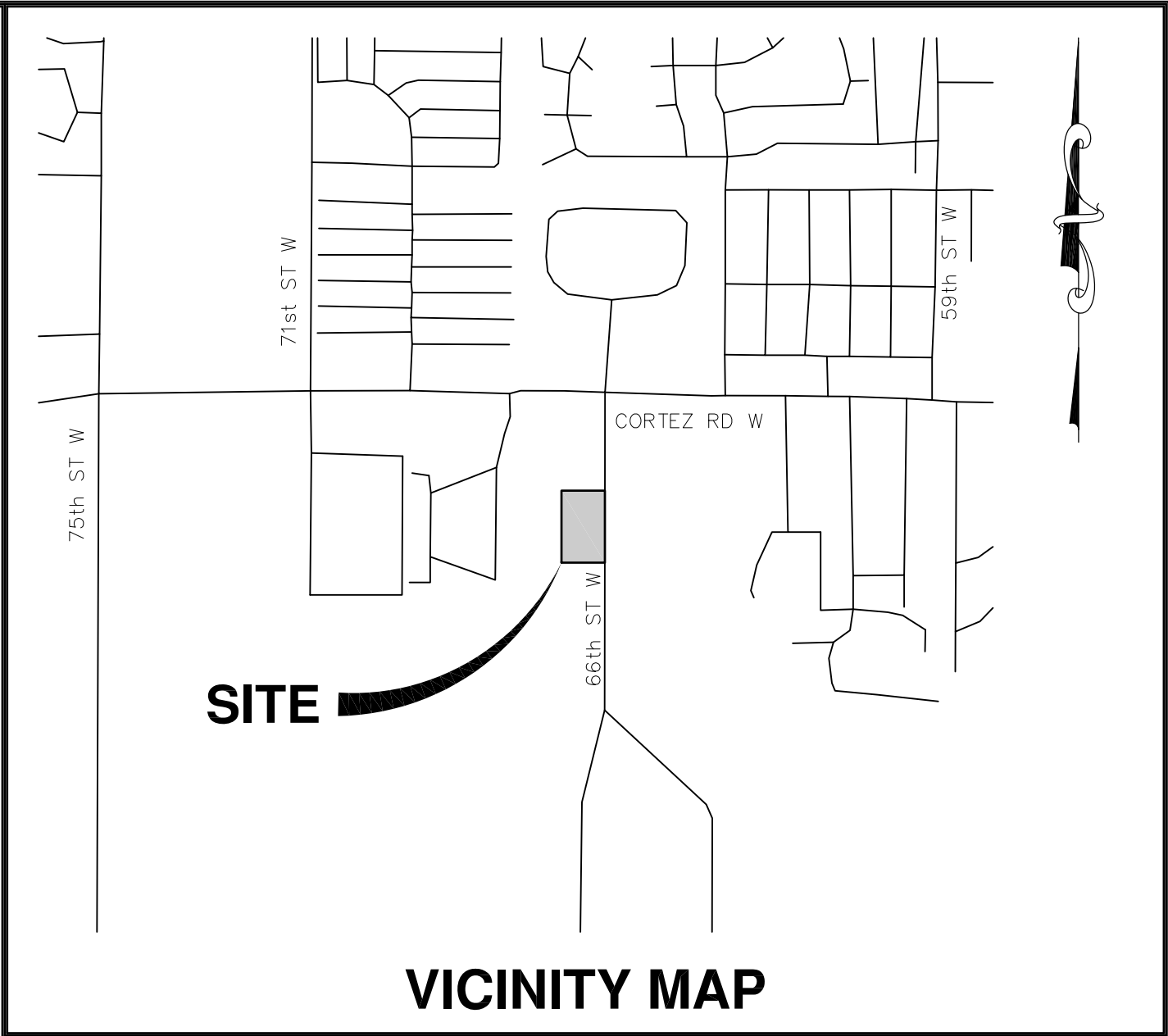
FINAL SITE PLANS / CONSTRUCTION PLANS

FOR

MANATEE COUNTY UTILITIES
BUILDING OPERATION FACILITY

LOCATED IN

SECTION 8, TOWNSHIP 35 SOUTH, RANGE 17 EAST
MANATEE COUNTY, FLORIDA



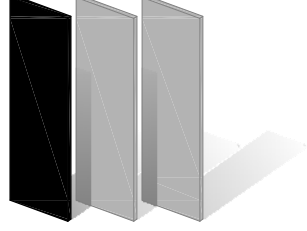
SITE DATA:

TOTAL PROJECT AREAS	5.50 AC
ZONED:	PD-PI
FUTURE LAND USE	P/SP-1
FLOOD ZONE	X
FIRM MAP	#1201530309C AND 328 B
TOTAL WETLANDS	0.00 AC
DRY RETENTION POND	0.79 AC
OPEN SPACE	2.52 AC
OPEN SPACE RATIO	2.52 AC / 5.50 AC = 0.458
MAXIMUM BUILDING HEIGHT	1 STORY NOT TO EXCEED 35'
BUILDING AREA (WITHIN PROJECT AREA)	
EXISTING BUILDING TO REMAIN	6,035 SF
EXISTING BUILDING TO BE REMOVED:	5,670+2,932+1,728 = 10,330 SF
PROPOSED BUILDING TO BE ADDED:	6,300+6,400= 12,700 SF
	NET: 2,370 SF ADDED
FAR	13,745 SF / 203,861 SF = 0.07 FAR

NOTE: 1) AN EXISTING TRUCK WASH FACILITY WILL BE DEMOLISHED AND REPLACED ON-SITE AND THEREFORE IS NOT INCLUDED IN THE ABOVE REFERENCED BUILDING CLACULATIONS.
2) A NEW 4,800 SF SHADE STRUCTURE IS PROPOSED AND IS NOT INCLUDED IN THE ABOVE REFERENCED BUILDING CALCULATIONS.

Preliminary Not for
Construction

Approval Type: FSP/ CONSTRUCTION PLANS Project Name: MANATEE COUNTY UTILITES BUILDING OPERATION FACILITY	
APPROVED:	Date File Number
PROJECT PLANNER (PD) _____	
PROJECT ENGINEER (PW) _____	
CONCURRENCY (PD) _____	
ENVIRONMENTAL PLANNING _____	
ENVIRONMENTAL HEALTH _____	
FIRE DISTRICT _____	
OWNER/AGENT _____	
Attention: The combination of this signed plan and accompanying letter constitutes the complete approval document. Both documents should be provided to interested parties and submitted with any building permit application.	



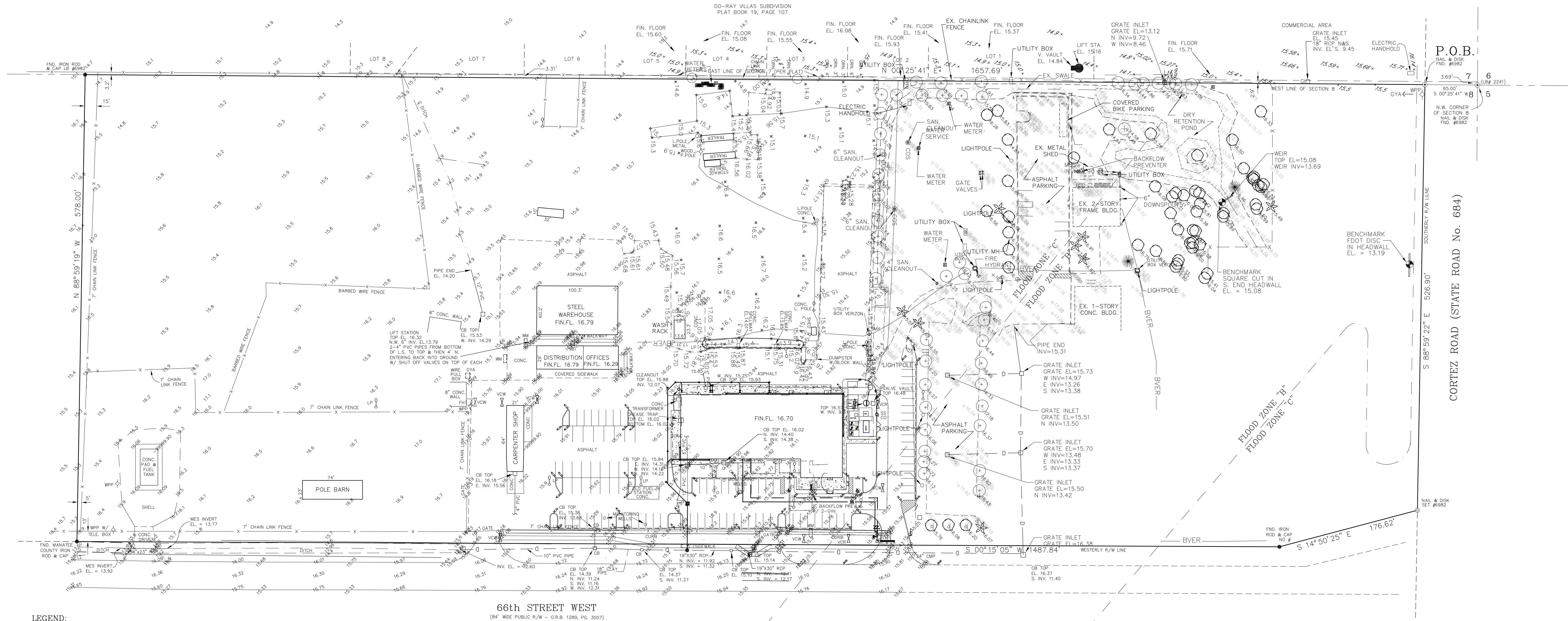
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LANDSCAPE ARCHITECTS | ENVIRONMENTAL CONSULTANTS
POST OFFICE BOX 9448 BRADENTON, FL 34206 | 201 5th AVENUE DRIVE EAST BRADENTON, FL 34208
E-MAIL: ZNS@ZNSENG.COM | TELEPHONE 941.748.8080 | FAX 941.748.3316

PREPARED FOR:
MANATEE COUNTY UTILITIES DEPARTMENT
1112 MANATEE AVENUE WEST
BRADENTON, FLORIDA 34206
941.792.8811

PROJECT DATA: MANATEE COUNTY UTILITIES BUILDING OPERATION FACILITY 00-43274	NATHAN J. KRAFT PROFESSIONAL ENGINEER #69272
SIGNATURE	
SHEET 1	

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Preliminary Not for Construction



LEGEND:

- 4" x 4" CONCRETE MONUMENT FOUND (PLS # AS NOTED)
- MARKER FOUND AS NOTED
- 5/8" IRON & CAP SET (CAP # LB 6992)
- PK NAIL & DISK FOUND
- PK NAIL & DISK SET (ZNS #LB6982)

- WOOD POWER POLE
- STEEL LIGHT POLE
- GUY ANCHOR
- FIRE HYDRANT
- VALVE COVER (WATER)
- WATER METER
- VALVE COVER (RECLAIM)
- CATCH BASIN
- ELECTRICAL MANHOLE
- SANITARY MANHOLE
- SANITARY SEWER CLEANOUT
- POINT OF BEGINNING
- ALUM.
- BUILDING
- CONCRETE
- ORN.
- TELEPHONE
- OFFICIAL RECORD BOOK
- PAGE
- FOUND
- MITERED END SECTION
- INVERT ELEVATION
- CATCH BASIN
- TREE
- BENCH MARK SET

NOTES:

- BEARINGS ARE BASED ON THE WEST LINE OF SECTION 8, TOWNSHIP 35 SOUTH, RANGE 17 EAST, ASSUMED TO BE N 00°25'41" E, AND DO NOT REFER TO THE TRUE MERIDIAN.
- IMPROVEMENTS SUCH AS, BUT NOT LIMITED TO, FOUNDATIONS, SUBSURFACE IMPROVEMENTS AND LANDSCAPE FEATURE, ETC., HAVE NOT BEEN LOCATED EXCEPT AS SHOWN.
- THERE MAY BE SOME AREAS NOT PHYSICALLY LOCATED OR SHOWN THAT LIE WITHIN THE BOUNDS OF THIS SURVEY THAT MAY BE TERMED JURISDICTIONAL BY VARIOUS GOVERNMENT AGENCIES.
- THE PROPERTY LIES WITHIN FLOOD ZONES "B" & "C", AS SCALED FROM MANATEE COUNTY FLOOD INSURANCE RATE MAP, PANEL # 120153 0309 C, REVISED DATED JUNE 30, 1999.
- THIS SURVEY HAS BEEN PREPARED WITHOUT THE BENEFIT OF A CURRENT TITLE REPORT OR ABSTRACT AND THEREFORE DOES NOT NECESSARILY INDICATE ALL THE ENCUMBRANCES ON THE PROPERTY.
- ELEVATIONS ARE BASED ON BCVD 1929, BENCH MARK NUMBER "K-186", ELEVATION = 23.041, AS PUBLISHED.

REVISIONS:

ADDED TREES ALONG NORTH R/W OF 66TH STREET WEST 5/2/01 H.B.
PARTIAL TOPOGRAPHIC UPDATE AND ADDITIONAL TOPOGRAPHIC INFORMATION 02/11/10 D.B.
CORNERS FOUND OR RESET AND FLAGGED, BOUNDARY NOT UPDATED 09/15/11 D.B.
PARTIAL TOPOGRAPHIC UPDATE AND ADDITIONAL TOPOGRAPHIC INFORMATION, BOUNDARY NOT UPDATED 01/07/14 D.B./E.D.

DESCRIPTION:

A PARCEL OF LAND LYING IN THE N.W. 1/4 OF SECTION 7, TOWNSHIP 35 SOUTH, RANGE 17 EAST, MANATEE COUNTY, FLORIDA, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

FROM THE NORTHWEST CORNER OF SAID SECTION 8, RUN S 00°25'41" W, ALONG THE WEST LINE OF SAID SECTION 8, A DISTANCE OF 65.00 FEET TO AN INTERSECTION WITH THE SOUTHERLY RIGHT OF WAY LINE OF CORTAZ ROAD (STATE ROAD NO. 684) FOR A POINT OF BEGINNING; THENCE S 88°59'22" E, ALONG SAID SOUTHERLY RIGHT OF WAY LINE, A DISTANCE OF 526.90 FEET TO AN INTERSECTION WITH THE WESTERLY RIGHT OF WAY LINE OF 66TH STREET WEST, AS RECORDED IN OFFICIAL RECORD BOOK 1289, PAGE 3007 OF THE PUBLIC RECORDS OF MANATEE COUNTY, FLORIDA; THENCE SOUTHERLY ALONG SAID WESTERLY RIGHT OF WAY LINE, THE FOLLOWING TWO (2) COURSES: (1) S 14°50'25" E, A DISTANCE OF 176.62 FEET; (2) S 00°15'05" W, A DISTANCE OF 1487.84 FEET; THENCE N 88°59'19" W, A DISTANCE OF 578.00 FEET TO THE INTERSECTION WITH THE WEST LINE OF SAID SECTION 8; THENCE N 00°25'41" E, ALONG SAID WEST LINE, A DISTANCE OF 1657.69 FEET TO THE POINT OF BEGINNING.

CONTAINING 21.81 ACRES, MORE OR LESS.

SUBJECT TO PERTINENT EASEMENTS, RIGHTS OF WAY, AND RESTRICTIONS OF RECORD.

BOUNDARY & TOPOGRAPHIC SURVEY

OF

MANATEE COUNTY LIFT STATION

LYING WITHIN

SECTION 8, TOWNSHIP 35 SOUTH, RANGE 17 EAST
MANATEE COUNTY, FLORIDA

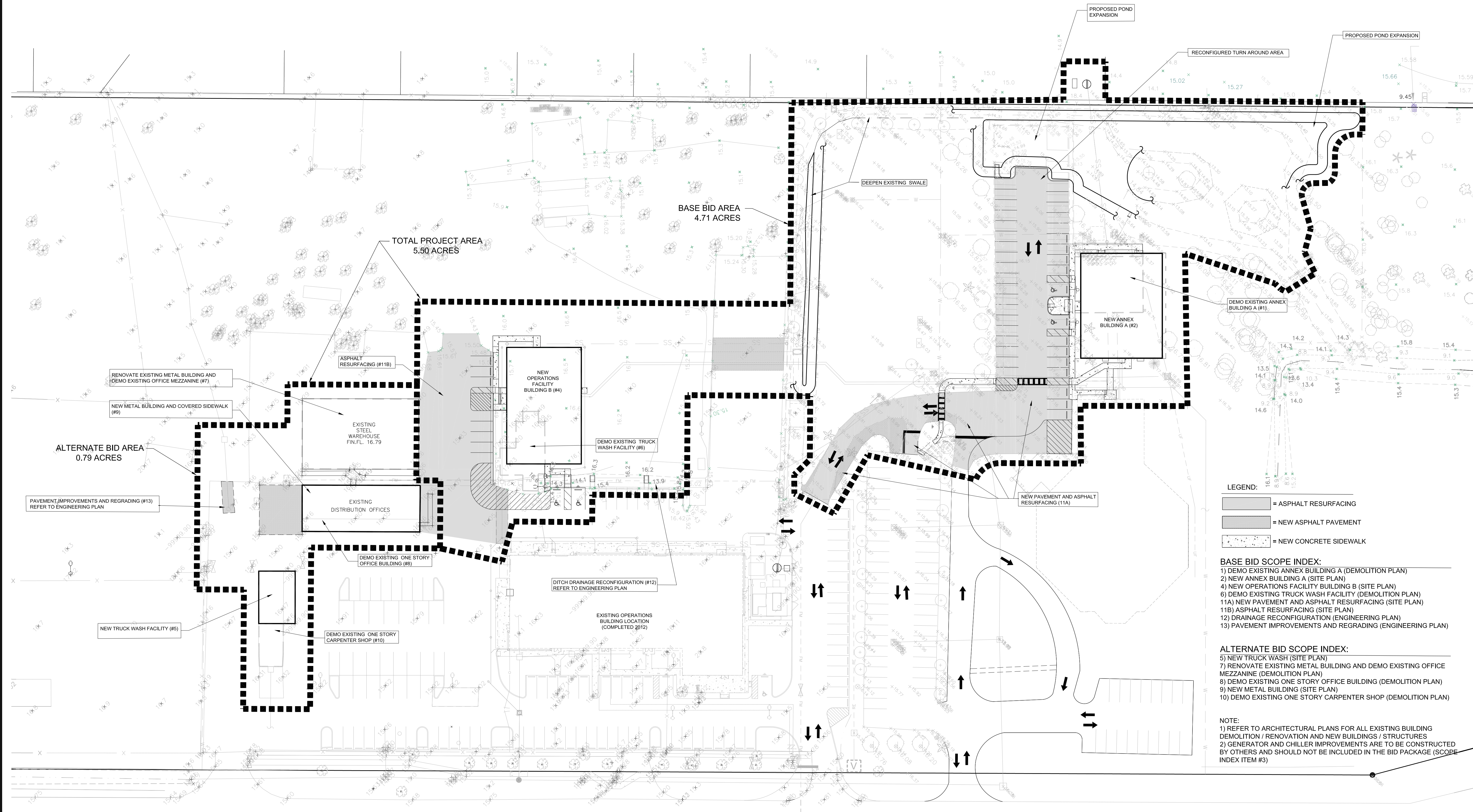
NOTE: THIS SURVEY IS NOT VALID WITHOUT THE SIGNATURE AND THE ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER.

CERTIFICATE OF SURVEYOR	
I, THE UNDERSIGNED PROFESSIONAL SURVEYOR AND MAPPER, HEREBY CERTIFY THAT THIS RECORD OF SURVEY WAS PREPARED UNDER MY DIRECT SUPERVISION, THAT TO THE BEST OF MY KNOWLEDGE, INFORMATION, AND BELIEF IS A TRUE AND CORRECT REPRESENTATION OF THE LAND SHOWN AND DESCRIBED, AND THAT IT MEETS THE "MINIMUM TECHNICAL STANDARDS FOR LAND SURVEYING IN THE STATE OF FLORIDA" CHAPTER 61G17-6, FLORIDA ADMINISTRATIVE CODE.	
DATE OF FIELD SURVEY:	01/22/01
DATE OF CERTIFICATION	01/23/01
BY:	JAMES N. GATCH, JR., P.S.M.
FLORIDA CERTIFICATE NO.	15 4295

Zoller, Najjar, & Shroyer, L.C.	
Engineers, Planners, Surveyors & Landscape Architects	
201 5TH AVENUE DRIVE EAST POST OFFICE BOX 4448	FAX (941) 748-3747 E-MAIL ZNS@MANATEE-CC.COM
BRADENTON, FLORIDA 34208 TELEPHONE (813) 748-8080	
FILE MCLS-TS	CHECKED JNG
DATE JANUARY 12, 2000	SCALE 1" = 60 FT.
DRAWN RJM/bjs/COMP	JOB NO. 00 - 19163
F.B. NO. 000	P.G. NO. 00-00
SHEET 1	OF 1

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Fri, 10 Jan 2014 2:18pm W:\Acad\MANATEE COUNTY UTILITIES DISTRIBUTION CENTER (43274)\ENG\WCLS-OPP.dwg



- LEGEND:
- ASPHALT RESURFACING
 - NEW ASPHALT PAVEMENT
 - NEW CONCRETE SIDEWALK

- BASE BID SCOPE INDEX:
- DEMO EXISTING ANNEX BUILDING A (DEMOLITION PLAN)
 - NEW ANNEX BUILDING A (SITE PLAN)
 - NEW OPERATIONS FACILITY BUILDING B (SITE PLAN)
 - DEMO EXISTING TRUCK WASH FACILITY (DEMOLITION PLAN)
 - NEW PAVEMENT AND ASPHALT RESURFACING (SITE PLAN)
 - ASPHALT RESURFACING (SITE PLAN)
 - DRAINAGE RECONFIGURATION (ENGINEERING PLAN)
 - PAVEMENT IMPROVEMENTS AND REGRADING (ENGINEERING PLAN)

- ALTERNATE BID SCOPE INDEX:
- NEW TRUCK WASH (SITE PLAN)
 - RENOVATE EXISTING METAL BUILDING AND DEMO EXISTING OFFICE MEZZANINE (DEMOLITION PLAN)
 - DEMO EXISTING ONE STORY OFFICE BUILDING (DEMOLITION PLAN)
 - NEW METAL BUILDING (SITE PLAN)
 - DEMO EXISTING ONE STORY CARPENTER SHOP (DEMOLITION PLAN)

NOTE:
1) REFER TO ARCHITECTURAL PLANS FOR ALL EXISTING BUILDING DEMOLITION / RENOVATION AND NEW BUILDINGS / STRUCTURES
2) GENERATOR AND CHILLER IMPROVEMENTS ARE TO BE CONSTRUCTED BY OTHERS AND SHOULD NOT BE INCLUDED IN THE BID PACKAGE (SCOPE INDEX ITEM #3)

Preliminary Not for Construction

DESIGNED	NJK
DRAWN	ED
DATE	11.2013
JOB NO.	00-43724
SCALE	1"=40'
SHEET	3

OVERALL PHASING PLAN
FOR
MANATEE COUNTY UTILITIES BUILDING OPERATION FACILITY
LOCATED IN
SECTION 8, TOWNSHIP 35 SOUTH, RANGE 17 EAST
MANATEE COUNTY, FLORIDA

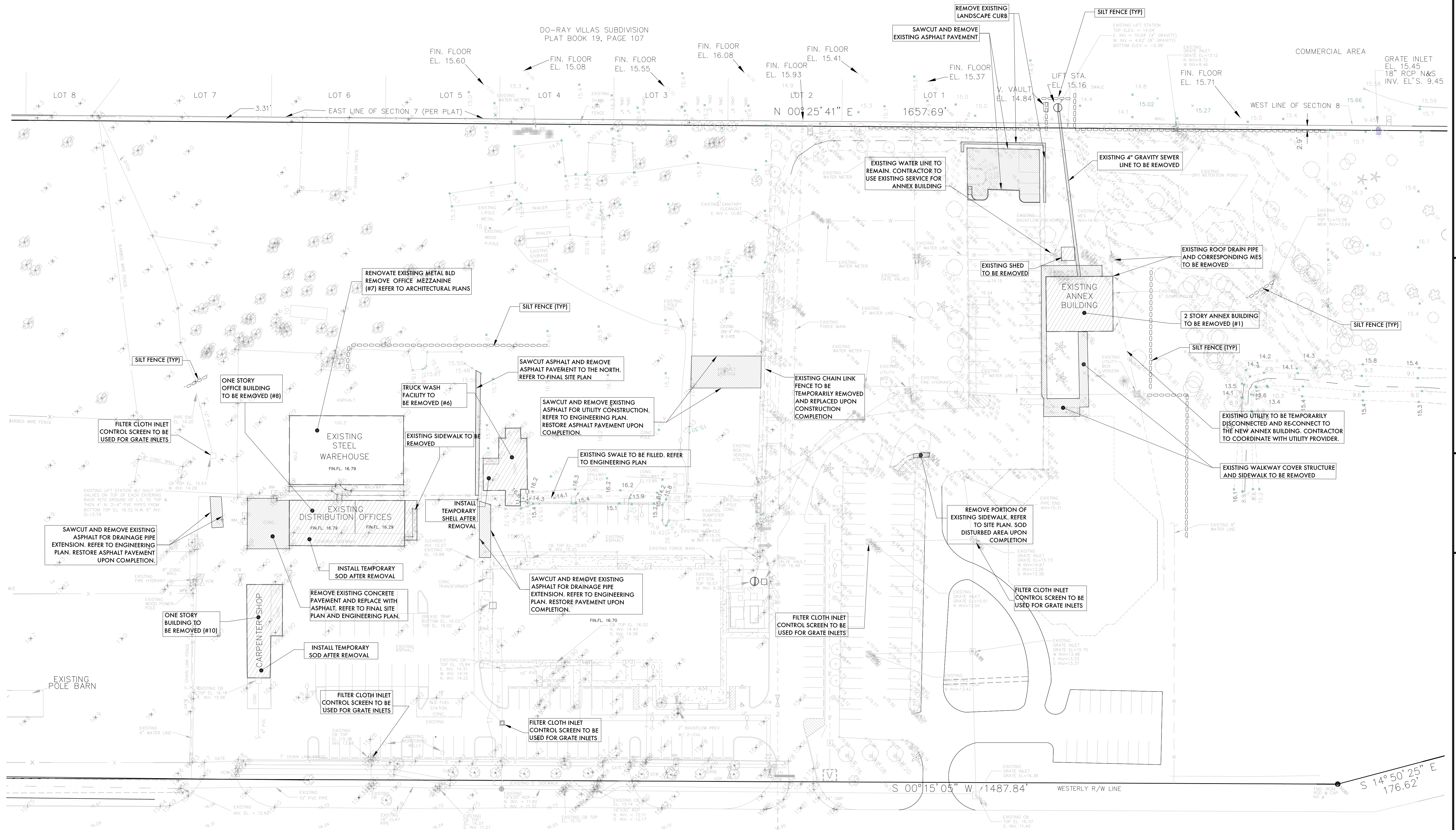
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POST OFFICE BOX 948 BRADSHAW, FL 32005 | 201 941 748 8000 | FAX 941 748 8001
WWW.ZNSENGINEERING.COM

NATHAN J. KRAGT
PROFESSIONAL ENGINEER #69272
SIGNATURE

Fri, 10 Jan 2014 2:20pm W:\Acad\MANATEE COUNTY UTILITIES DISTRIBUTION CENTER (43274)\ENG\MCL\DEM.DWG



Preliminary Not for Construction

NOTE: REFER TO LANDSCAPE PLANS FOR TREE REMOVAL

NATHAN J. KRAGT
PROFESSIONAL ENGINEER #69272

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10000 W. MANATEE AVENUE, SUITE 200
DUNEDIN, FL 33511
TEL: 813.941.7488 FAX: 813.941.7489
WWW.ZNSENGINEERING.COM

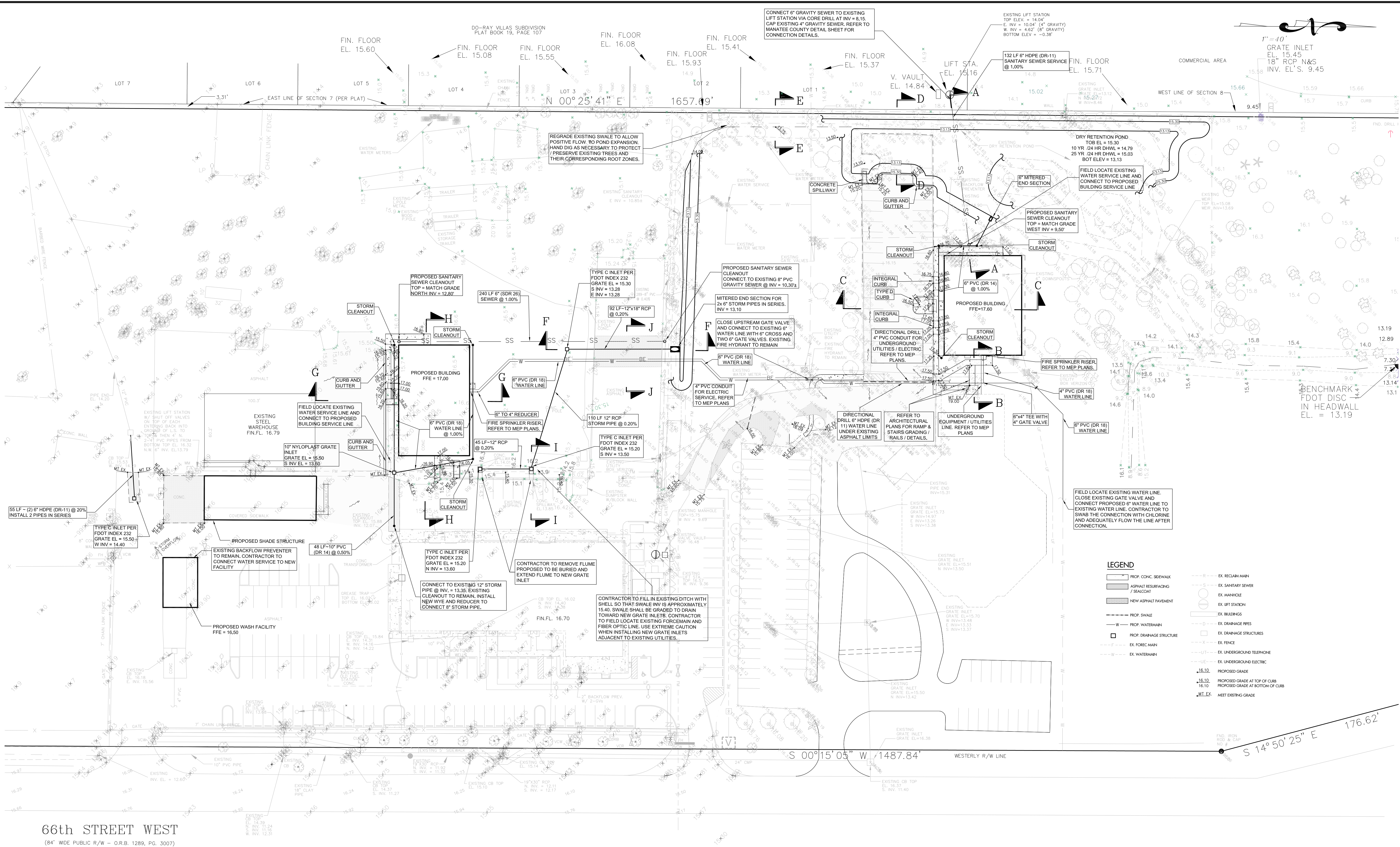
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6	REVISED PER COMMENTS
7	REVISED PER COMMENTS

EROSION CONTROL AND DEMOLITION PLAN
FOR
MANATEE COUNTY UTILITIES BUILDING OPERATION FACILITY
LOCATED IN
SECTION 8, TOWNSHIP 35 SOUTH, RANGE 17 EAST
MANATEE COUNTY, FLORIDA

DESIGNED	CHK
DRAWN	ED
DATE	11/05/2013
JOB NO.	00-43274
SCALE	1"=40'
SHEET	4



Fri, 10 Jan 2014 2:41pm W:\acod\MANATEE COUNTY UTILITIES DISTRIBUTION CENTER (43274)\ENG\WOLS-ENG.dwg



- GENERAL CONSTRUCTION NOTES:**

 - ALL PROPOSED CONSTRUCTION IS TO MEET OR EXCEED LATEST APPLICABLE MANATEE COUNTY PUBLIC WORKS UTILITY STANDARDS AND IS TO MEET ENGINEER'S SPECIFICATIONS.
 - THE CONTRACTOR IS TO COORDINATE THE LOCATION AND ELEVATION OF ALL P&I, G&E AND IRRIGATION SERVICE SLEEVES WITH RESPECTIVE AGENCY PRIOR TO CONSTRUCTION.
 - ALL PROPOSED ELECTRICAL AND COMMUNICATION SERVICES ARE TO BE LOCATED UNDERGROUND AS DIRECTED BY RESPECTIVE AGENCY.
 - CURBING AT SIDEWALK INTERSECTIONS IS TO BE RECESSED FOR PEDESTRIAN RAMPS. RAMPS TO BE CONSTRUCTED AT TIME OF CURB R&D.
 - CONTRACTOR TO OBTAIN APPLICABLE PERMITS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
 - THE CONTRACTOR IS RESPONSIBLE FOR COORDINATION AND ISSUANCE OF ALL COMMENCEMENT AND/OR PROGRESS NOTICES TO GOVERNMENTAL AGENCIES DURING THE COURSE OF CONSTRUCTION, AS REQUIRED FOR INSPECTION, TESTING AND TRACKING PER APPLICABLE AGENCY PERMIT CONDITIONS.
 - CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND COMPLYING WITH ALL PERMIT CONDITIONS AND SITUATIONS FOR ALL LOCAL, REGIONAL AND STATE AGENCIES, INCLUDING, BUT NOT LIMITED TO, FINAL SITE PLANS, UTILITIES, DRAINAGE, FUGITIVE PARTICULATES AND EROSION.
- GENERAL CONSTRUCTION NOTES CONTINUED:**

 - ALL UTILITIES AND/OR DRAINAGE SHOWN AS EXISTING WERE DERIVED FROM THE BEST AVAILABLE INFORMATION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE ACTUAL LOCATION, SIZE, TYPE AND AMOUNT OF EXISTING UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR TO NOTIFY SUNSHINE UNDERGROUND FACILITIES NOTIFICATION (1.800.432.4770), MOW&D AND P&I 48 HOURS MINIMUM PRIOR TO START OF CONSTRUCTION FOR POSSIBLE UTILITY LOCATIONS NOT SHOWN ON PLANS.
 - RIGHT-OF-WAY USE PERMIT TO BE OBTAINED BY THE CONTRACTOR FOR OFF-SITE CONSTRUCTION.
- GENERAL CONSTRUCTION NOTES CONTINUED:**

 - IF CONSTRUCTION STAKEOUT IS PROVIDED BY THE OWNER, THE CONTRACTOR SHALL ACCURATELY RECORD THE LOCATION OF ALL WORK THAT MAY SUBSEQUENTLY BECOME CONCEALED OR INACCESSIBLE, AS WELL AS MARK OR EXPOSE UNDERGROUND FACILITIES AS NECESSARY TO FACILITATE THE PREPARATION OF THE RECORD DRAWINGS BY THE OWNER, AND PROVIDE SAID INFORMATION TO THE OWNER.
 - ALL SIGN POLES ARE TO BE ROUND ALUMINUM POSTS.
 - REFER TO FOOT INDEX 17721 FOR CONDUIT PAVEMENT TRENCH DETAILS ONLY.
 - WEED GUARD TO BE DEWITT 20 YEAR, 4.1 OZ. LANDSCAPE WEED BARRIER (SECURE WITH ANCHOR PINS ALONG EDGES 10' O.C. AND AT PLANTINGS).
 - CONTRACTOR TO VERIFY LOCATIONS OF ALL UTILITIES BEFORE CONSTRUCTION IS TO BEGIN.
 - FORCEMAIN LOCATION OBTAINED FROM THE BEST AVAILABLE INFORMATION. CONTRACTOR TO VERIFY EXISTING FORCEMAIN LOCATION. PER MOW&D TECHNICAL SPECIFICATIONS 9.07, THE CONTRACTOR IS TO ENSURE A MINIMUM OF 10' SEPARATION BETWEEN THE POTABLE WATERMAIN (AND FIRELINE) AND THE FORCEMAIN. 5' OF SEPARATION IS ALLOWED IF THE POTABLE WATERMAIN (AND FIRELINE) IS DUCTILE IRON, OR JOINTLESS/FUSED HIGH DENSITY POLYETHYLENE, OR IN A WATER TIGHT CASING PIPE.
- DRAINAGE AND GRADING NOTES:**

 - ALL CONSTRUCTION IS TO BE STAKED IN THE FIELD BY OR UNDER THE SUPERVISION OF A FLORIDA REGISTERED LAND SURVEYOR. RECORD DRAWINGS SHALL BE PROVIDED BY THE SURVEYOR.
 - THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ALL STRUCTURES PRIOR TO INSTALLATIONS.
 - REFER TO GRADING DETAIL SHEETS FOR CROSS SECTION DETAILS.
 - CONTRACTOR TO SOD ALL DISTURBED AREAS.
 - REFER TO CONSTRUCTION TECHNICAL SPECIFICATIONS FOR COMPACTION REQUIREMENTS, GRASSING/SODDING REQUIREMENTS, AND PAVING CONSTRUCTION MATERIAL SPECIFICATIONS.
 - ALL FILL AREAS ARE TO BE CONSTRUCTED IN 12" MAXIMUM LIFTS.
 - ON SLOPES GREATER THAN 3:1 PEGGING OR PINNING OF SOD MAY BE REQUIRED.
 - UNLESS OTHERWISE NOTED OR SHOWN ON PLANS ALL SUBGRADE, BASE AND PAVING SHALL COMPLY WITH FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (LATEST VERSION). ALL SECTIONS APPLY SPECIFICALLY STABILIZING (SECTION 140) & BITUMINOUS TREATMENT SURFACE COURSES AND CONCRETE PAVEMENT (SECTIONS 300, 320, 327, 330 & 334) SHOULD BE REVIEWED PRIOR TO BIDDING. IN ALL SECTIONS "TREATMENT" WOULD REFER TO MANATEE COUNTY.
 - MINIMUM DEPTH OF ASPHALT OVERLAY IS 1/2" INCH, MILL EXISTING ASPHALT AS NECESSARY. REFER TO EXISTING CONDITION (SHEET C2) AND ENGINEERING PLAN (SHEET C3) FOR EXISTING VS. PROPOSED GRADE (DEPTH OF PROPOSED PAVEMENT) COMPARISONS.
- UTILITY NOTES:**

 - ALL CONSTRUCTION IS TO BE STAKED IN THE FIELD BY OR UNDER THE SUPERVISION OF A FLORIDA REGISTERED LAND SURVEYOR. RECORD DRAWINGS SHALL BE PROVIDED BY THE SURVEYOR.
 - THE CONTRACTOR IS RESPONSIBLE FOR THE PRODUCTION OF REPRODUCIBLE RECORD DRAWINGS. PRIOR TO SCHEDULING OF ANY UNDERGROUND UTILITY PRESSURE TESTS, CONTRACTOR SHALL HAVE OBTAINED FROM A PROFESSIONAL SURVEYOR ALL NECESSARY FIELD DATA REQUIRED FOR THE PRODUCTION OF RECORD DRAWINGS. SAID RECORD DRAWINGS ARE TO MEET THE REQUIREMENTS OF MANATEE COUNTY HEALTH DEPARTMENT & MANATEE COUNTY PUBLIC WORKS UTILITY STANDARDS AND P&I. THE CONTRACTOR SHALL PROCESS SAID DRAWINGS THROUGH MANATEE COUNTY PUBLIC WORKS UTILITY ENGINEERING AND UPON COMPLETION SHALL PROVIDE TWO REPRODUCIBLE MYLARS AND FIVE SETS OF PRINTS OF THE RECORD DRAWINGS, SIGNED AND SEALED BY A PROFESSIONAL LAND SURVEYOR TO THE ENGINEER. THESE RECORD DRAWINGS SHALL BE CERTIFIED TO THE OWNER, APPROPRIATE GOVERNMENTAL AGENCIES, AND ZNS ENGINEERING, L.C.
 - IF CONSTRUCTION STAKEOUT IS PROVIDED BY THE OWNER, THE CONTRACTOR SHALL ACCURATELY RECORD THE LOCATION OF ALL WORK THAT MAY SUBSEQUENTLY BECOME CONCEALED OR INACCESSIBLE, AS WELL AS MARK OR EXPOSE UNDERGROUND FACILITIES AS NECESSARY TO FACILITATE THE PREPARATION OF THE RECORD DRAWINGS BY THE OWNER, AND PROVIDE SAID INFORMATION TO THE OWNER.
 - WATERMANS ARE TO BE PIGMENTED, COLOR BLUE, DR-18, C-900 OR C-905 PVC UNLESS OTHERWISE SPECIFIED IN DRAWINGS. WATER SERVICES, WHERE LOCATED UNDER PAVEMENT, TO BE ENCASED IN ASTM 2241, SDR-21 PAVEMENT. MAINTAIN A MINIMUM OF 36" COVER.
- UTILITY NOTES CONTINUED:**

 - RECLAIMED WATERMANS ARE TO BE PIGMENTED, COLOR LAVENDER, DR-18, C-900 OR C-905 PVC. MAINTAIN A MINIMUM OF 36" COVER.
 - GRAVITY SANITARY SEWERS ARE TO BE PIGMENTED, COLOR GREEN, SDR 26, PVC UNLESS OTHERWISE SPECIFIED IN DRAWINGS AND CONFORMING TO ASTM D3034. MAINTAIN A MINIMUM OF 36" COVER.
 - F.A.C. 62-555.314 UTILITY SEPARATION STANDARDS WILL BE UTILIZED FOR CONSTRUCTION OF ALL NEW UTILITIES.
 - CONTRACTOR IS RESPONSIBLE FOR ALL GOVERNMENTAL CONSTRUCTION FEES AND CHARGES, I.E. INSPECTIONS AND TESTING FEES. HOWEVER, IMPACT FEES (IF), IF APPLICABLE, TO BE PAID BY THE OWNER.
 - TOPOGRAPHIC AND PROPERTY SURVEYS GIVING LOT SIZE, GROUND ELEVATIONS, OBSTRUCTIONS ON SITE, LOCATIONS AND DEPTHS OF SEWERS, CONDUITS, PIPES, EXISTING STRUCTURES, CURBS, PAVEMENTS, TRACTS, AND SOIL BORING DATA GIVING THE NATURE OF GROUND AND SUBSURFACE CONDITIONS HAVE BEEN OBTAINED FROM RELIABLE SOURCES. THE ACCURACY OF THIS DATA IS NOT GUARANTEED, AND IS FURNISHED SOLELY AS AN ACCOMMODATION TO THE CONTRACTOR. USE OF THIS DATA SHALL BE MADE AT THE CONTRACTOR'S DISCRETION. NO ADDITIONAL COMPENSATION WILL BE GRANTED DUE TO THE CONTRACTOR'S LACK OF KNOWLEDGE OF SITE CONDITIONS PRIOR TO BID SUBMISSION. THE CONTRACTOR SHALL CONDUCT ANY ADDITIONAL SURVEYS AND SOILS TESTS NECESSARY TO VERIFY THE ACCURACY OF THE INFORMATION PROVIDED.
 - FIRELINE MAINS SHALL BE CONSTRUCTED PER LATEST NFPA 24 GUIDELINES. UNDERGROUND SUPPLY LINE MATERIAL SHALL BE DUCTILE IRON PIPE (DIP) OR DR14 WITH RESTRAINED JOINTS.

Preliminary Not for Construction

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LANDSCAPE ARCHITECTS | ENVIRONMENTAL CONSULTANTS

POST OFFICE BOX 948 BAHAMON, FL 32008 | 201 9th AVENUE DRIVE EAST BAHAMON, FL 32008
EMAIL: ZNS@ZNSENGINEERING.COM | TELEPHONE 941 748 8888 | FAX 941 748 3316

ENGINEERING PLAN

FOR

MANATEE COUNTY UTILITIES BUILDING OPERATION FACILITY

LOCATED IN

SECTION 8, TOWNSHIP 35 SOUTH, RANGE 17 EAST

MANATEE COUNTY, FLORIDA

DESIGNED: NS

DRAWN: ED

DATE: 11.20.13

JOB NO.: 09-4372-1

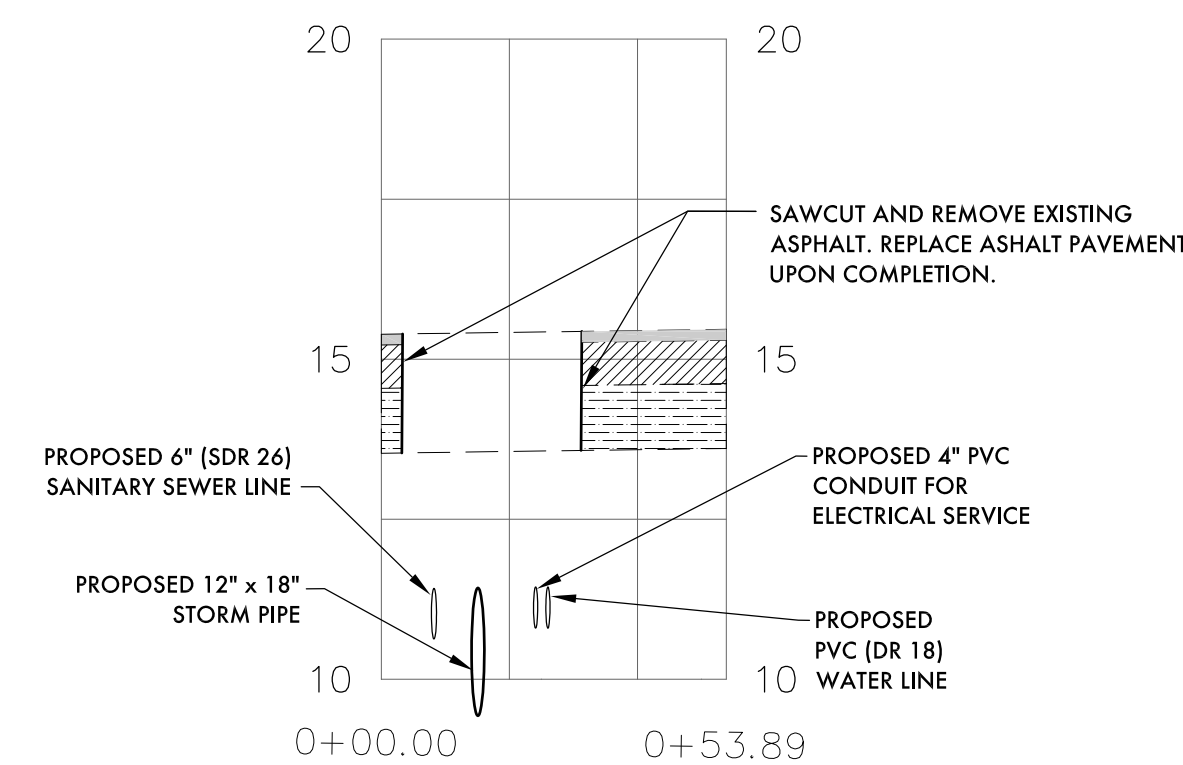
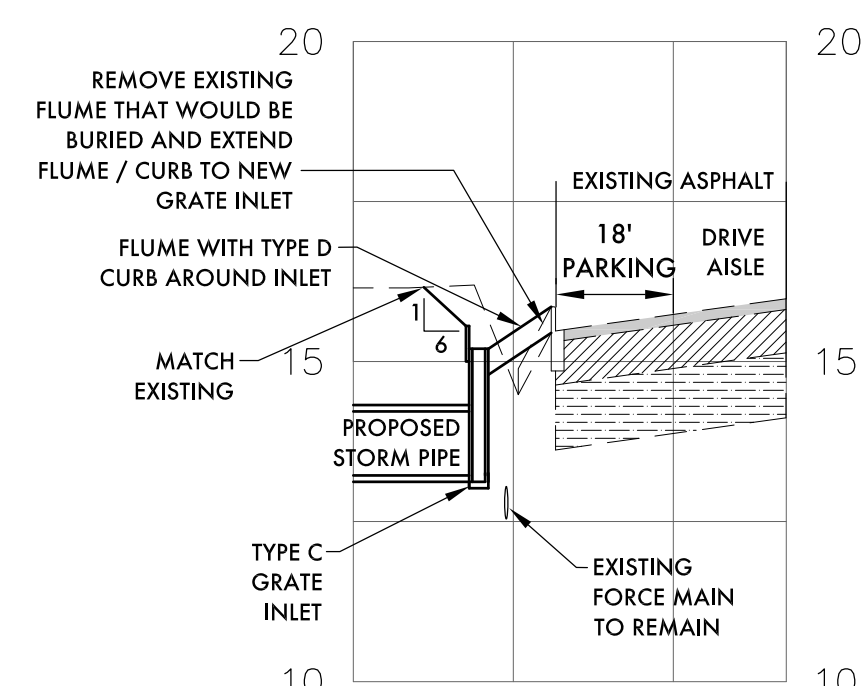
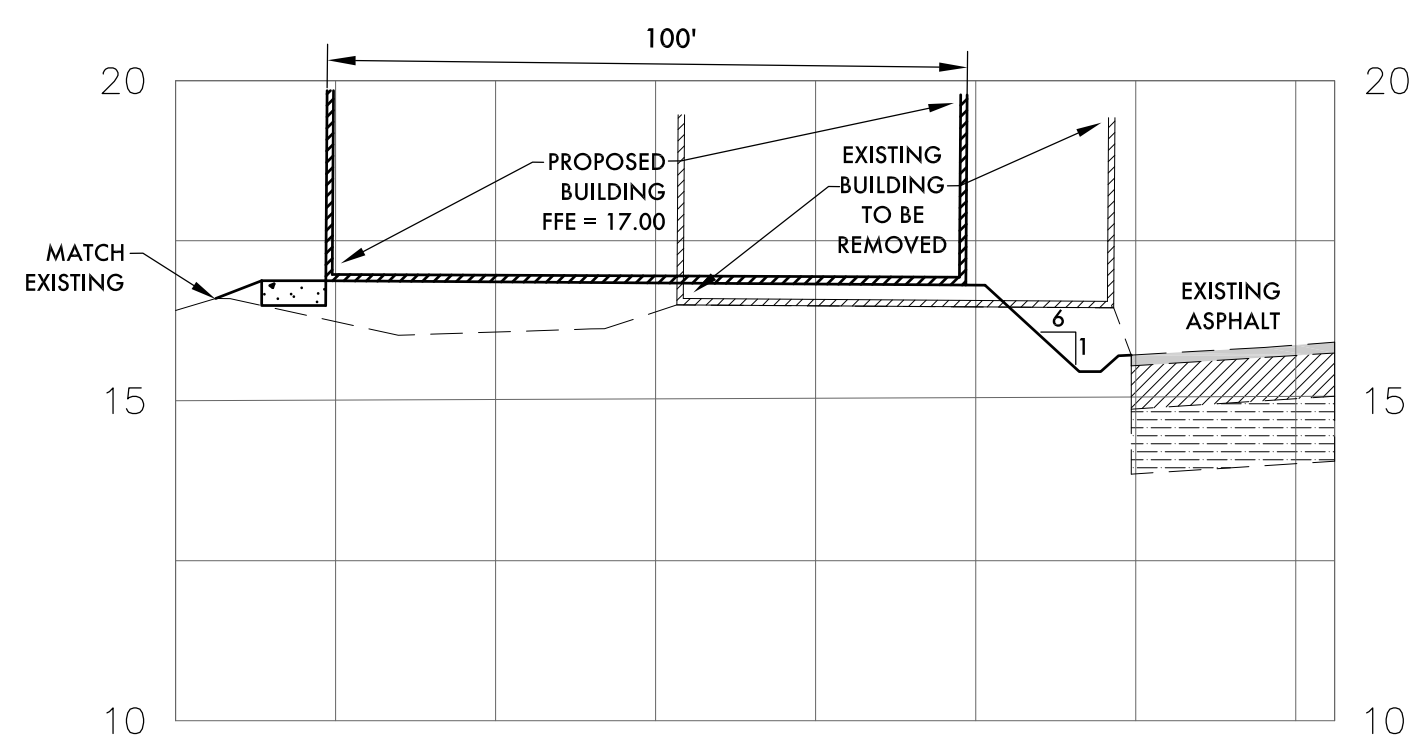
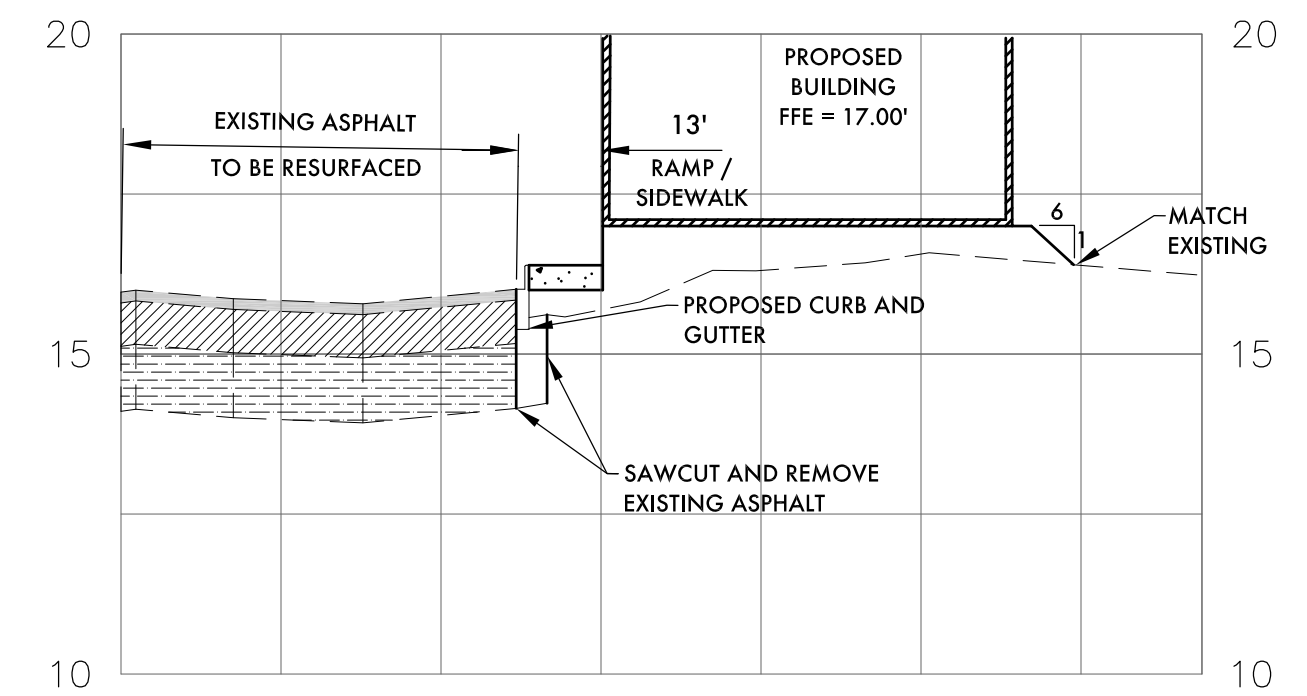
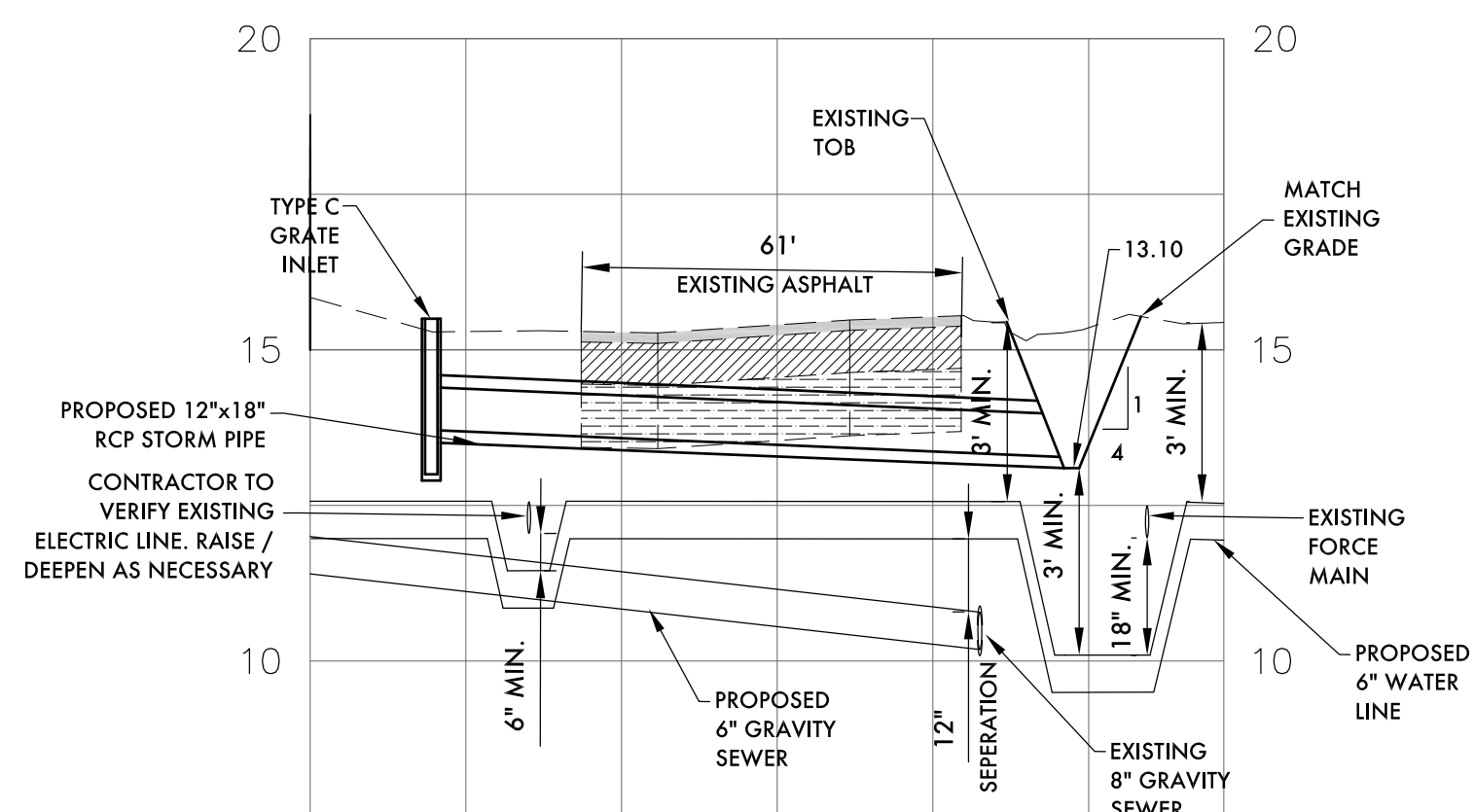
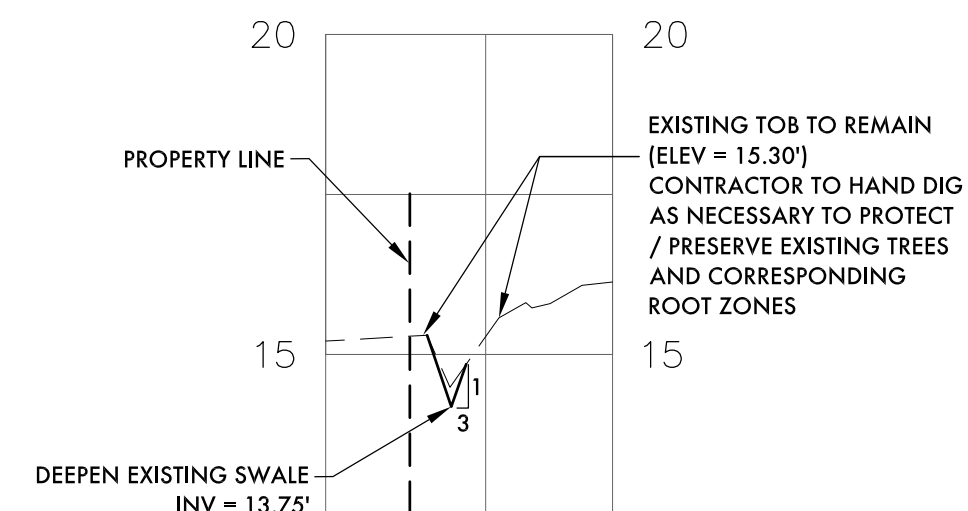
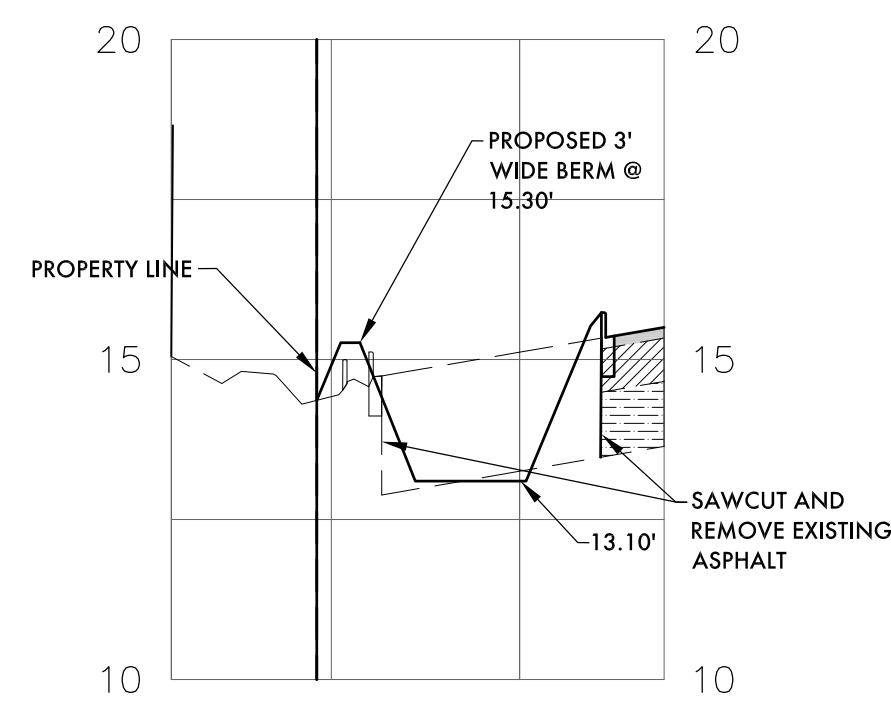
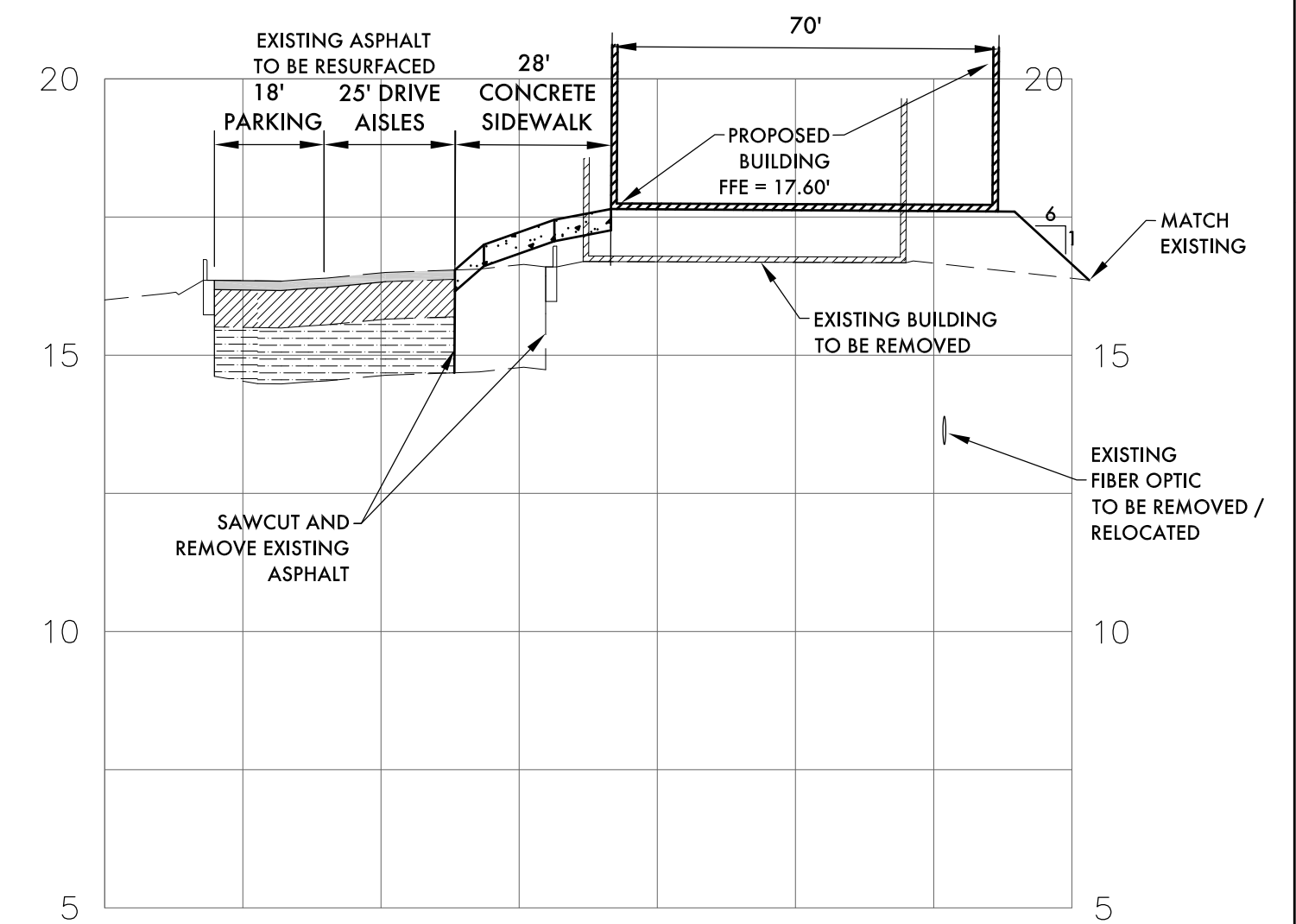
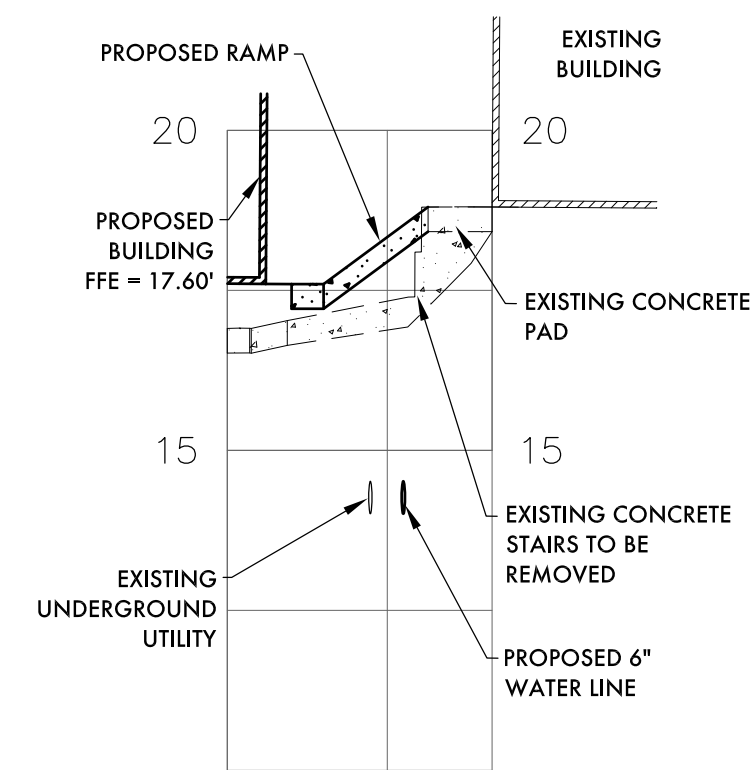
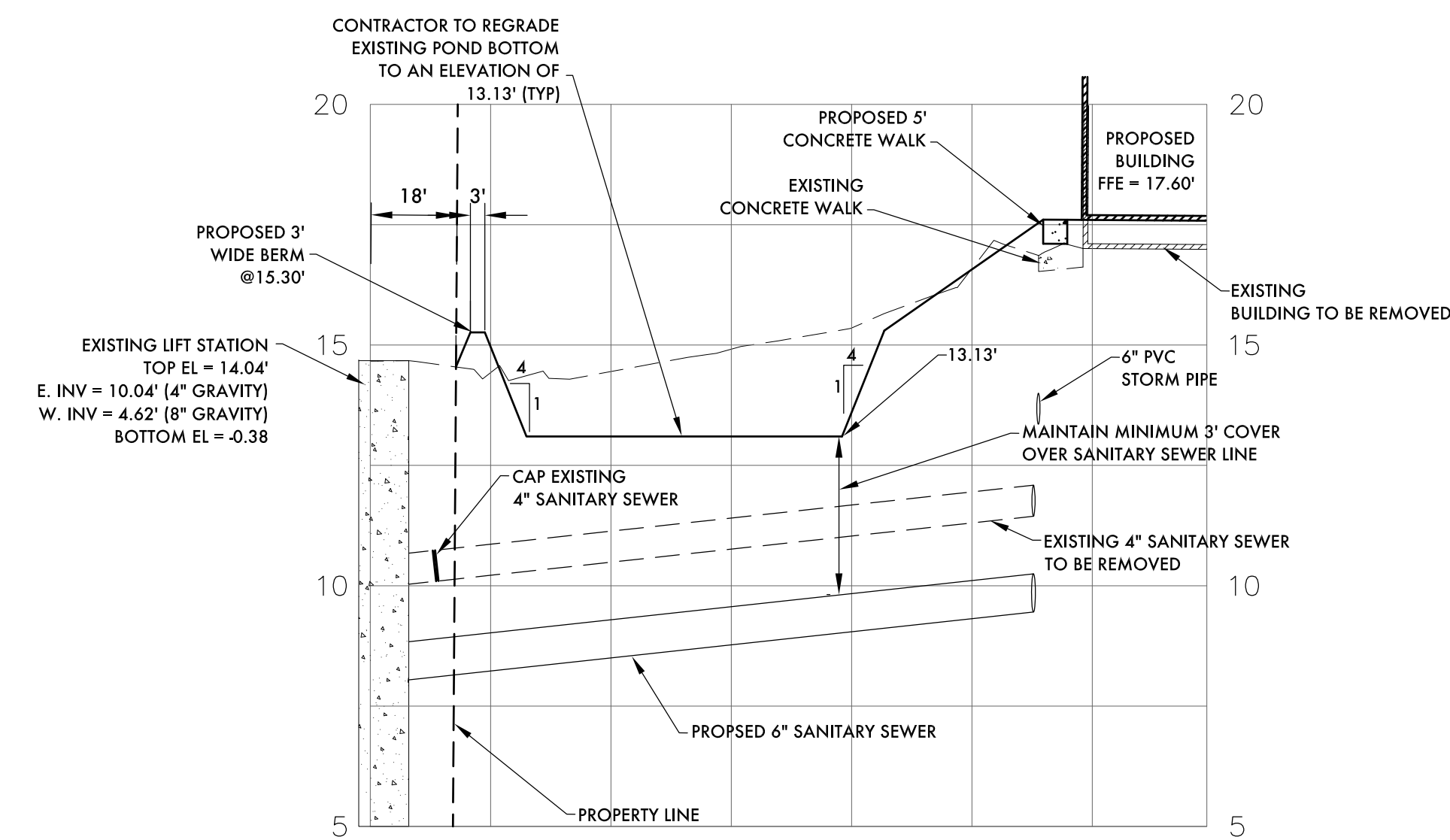
SCALE: 1"=40'

SHEET: 7

NATHAN J. KRAGT

PROFESSIONAL ENGINEER #69272

SIGNATURE



Preliminary Not for Construction

DESIGNED

BY

DATE

SCALE

12/20/13

00/43/150

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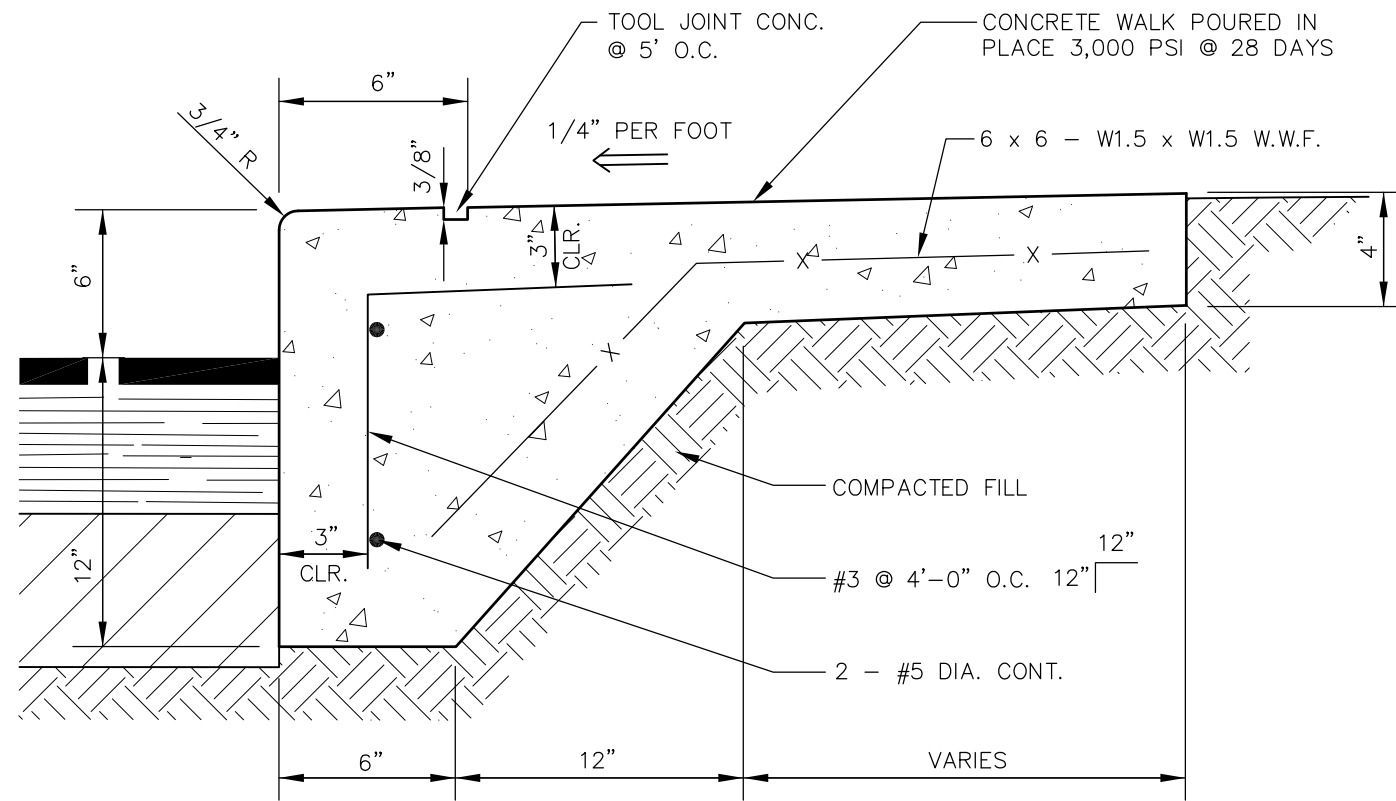
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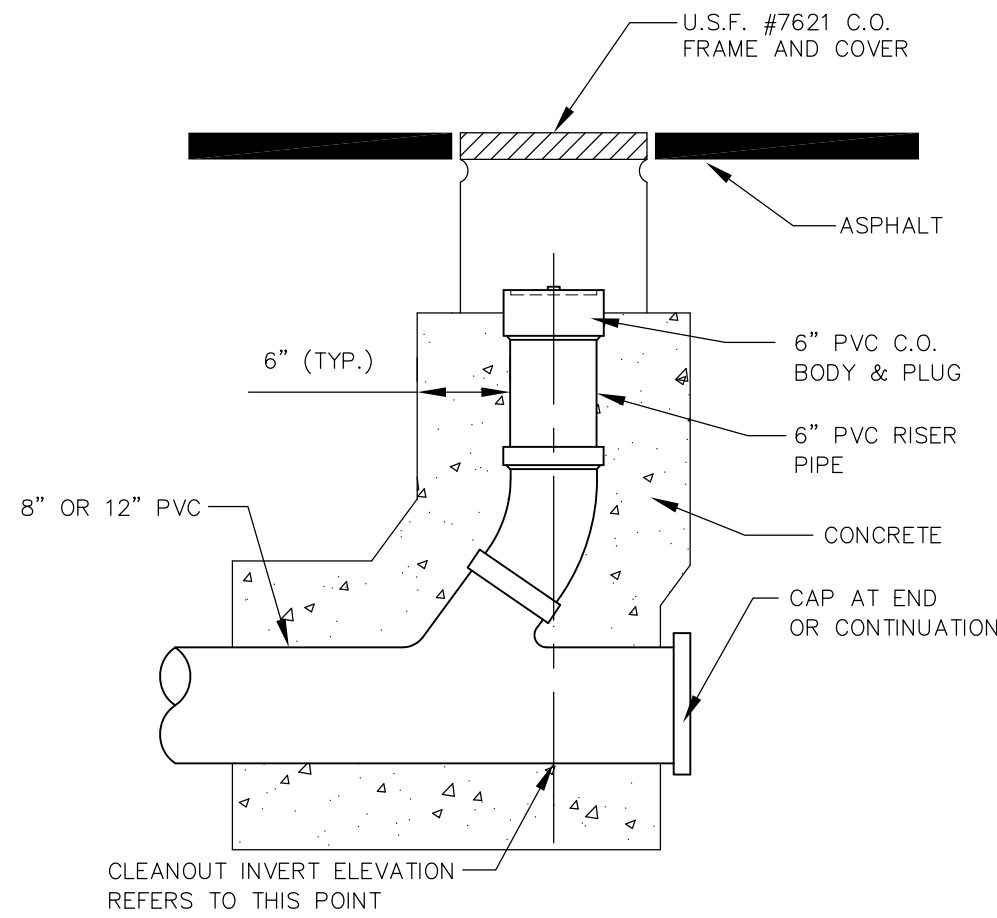
Fri, 10 Jan 2014 2:44pm W:\acaa\MANATEE COUNTY UTILITIES DISTRIBUTION CENTER (43274)\ENG\MCL\SS-DD-NEW.dwg



NOTE: WHERE CONCRETE SIDEWALK TIES IN WITH A CONCRETE SURFACE AN EXPANSION JOINT SHALL BE USED. SAWCUTS PER MANATEE COUNTY STANDARDS.

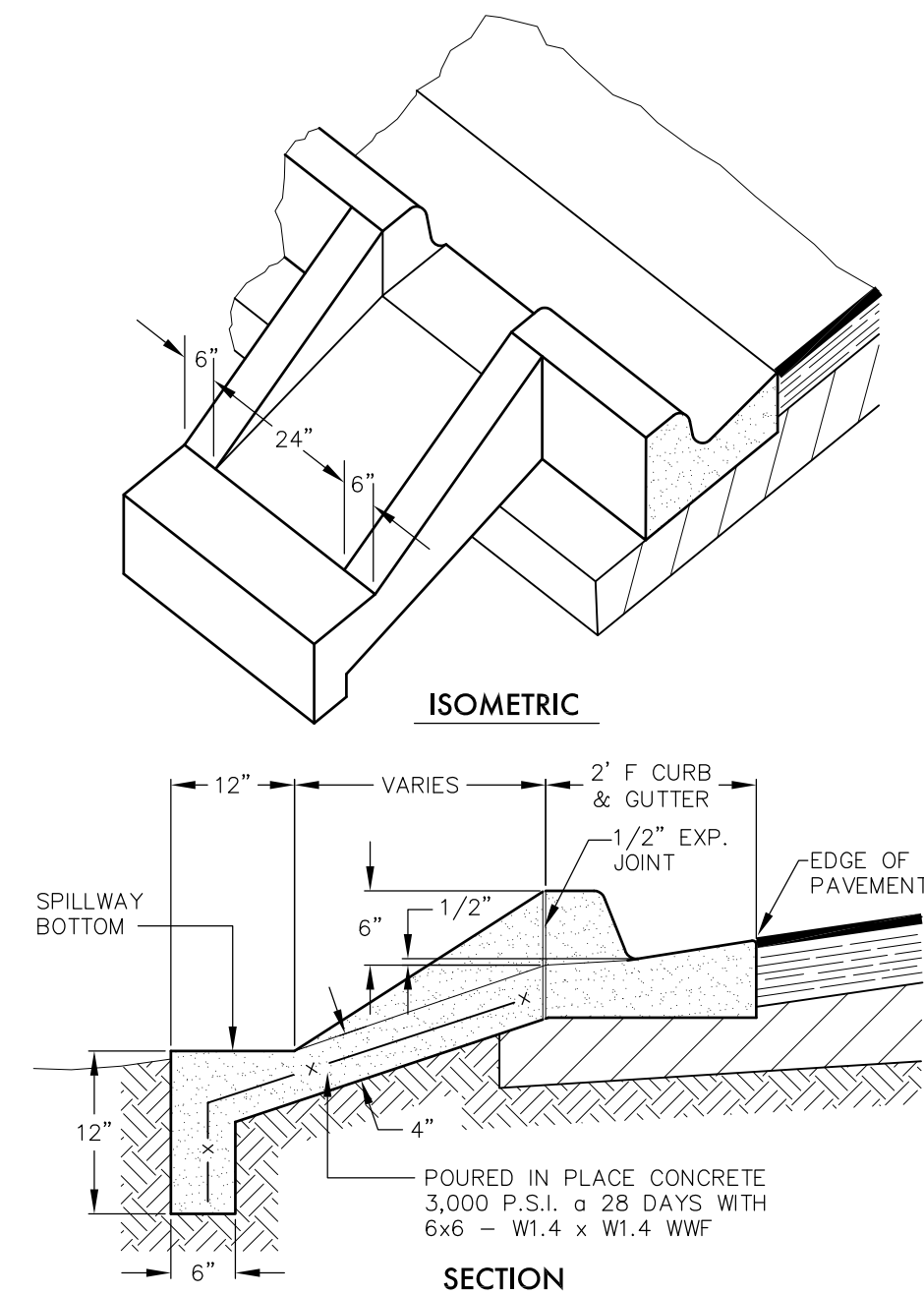
INTEGRAL CURB / SIDEWALK DETAIL

N.T.S.



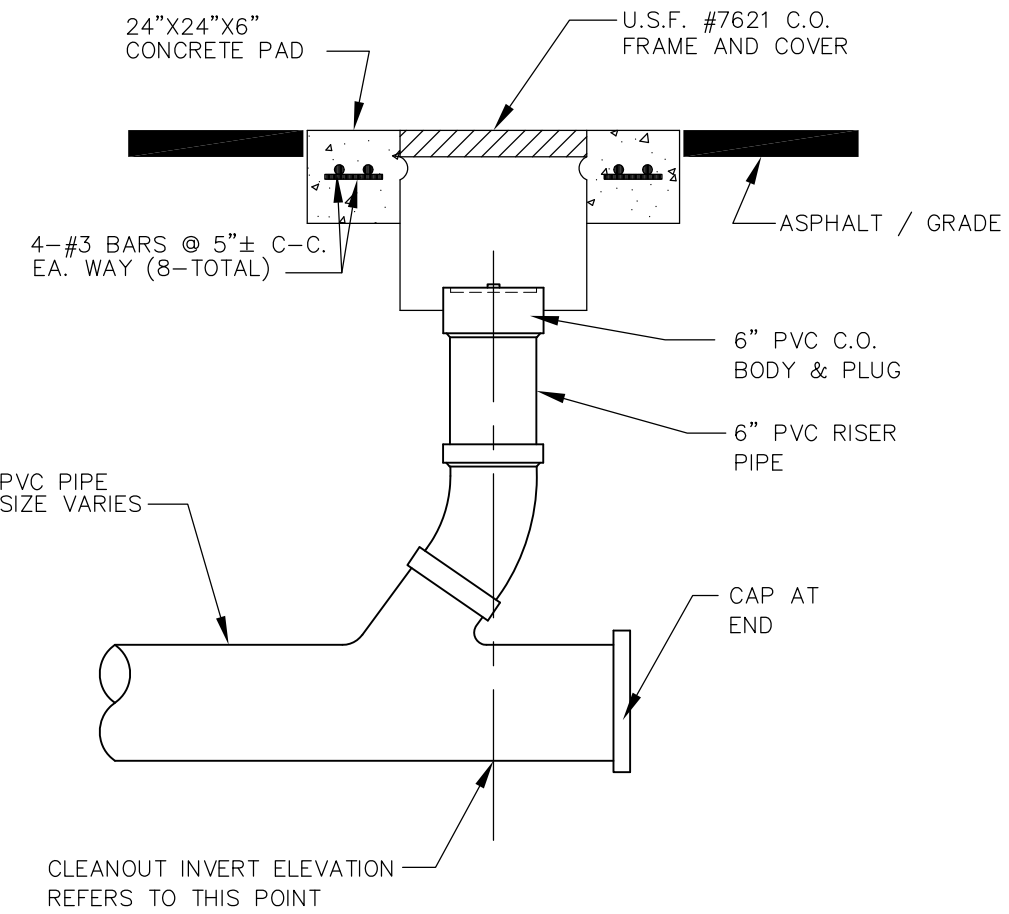
ROOF DRAIN CLEANOUT DETAIL

N.T.S.



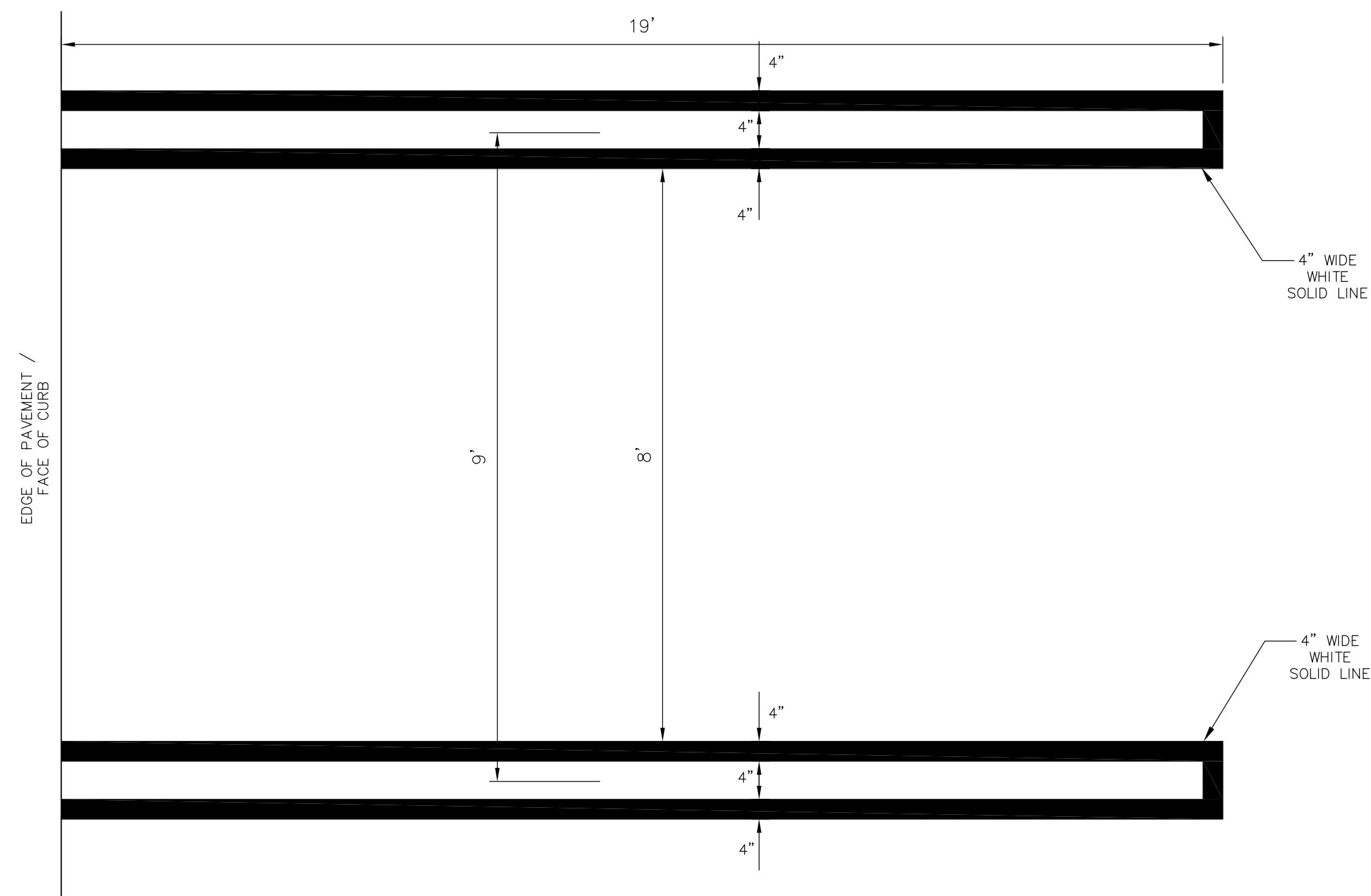
**TYPE "F" CURB
CONCRETE SPILLWAY DETAIL**

N.T.S.



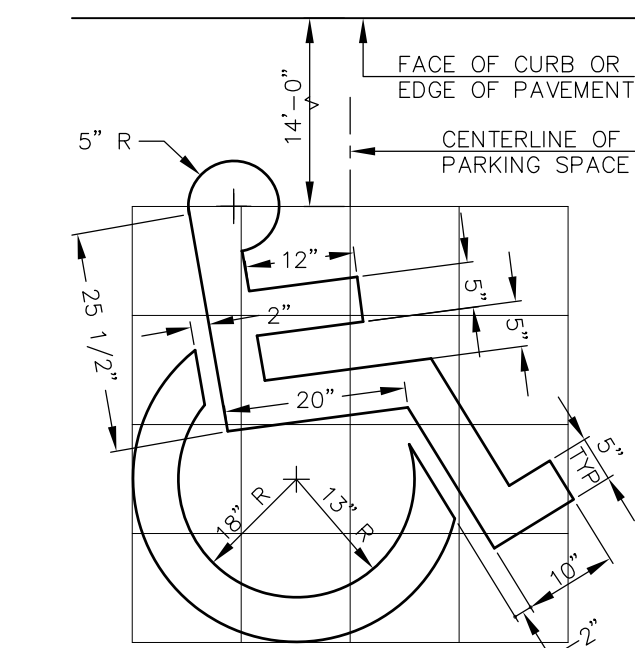
CLEANOUT DETAIL

N.T.S.

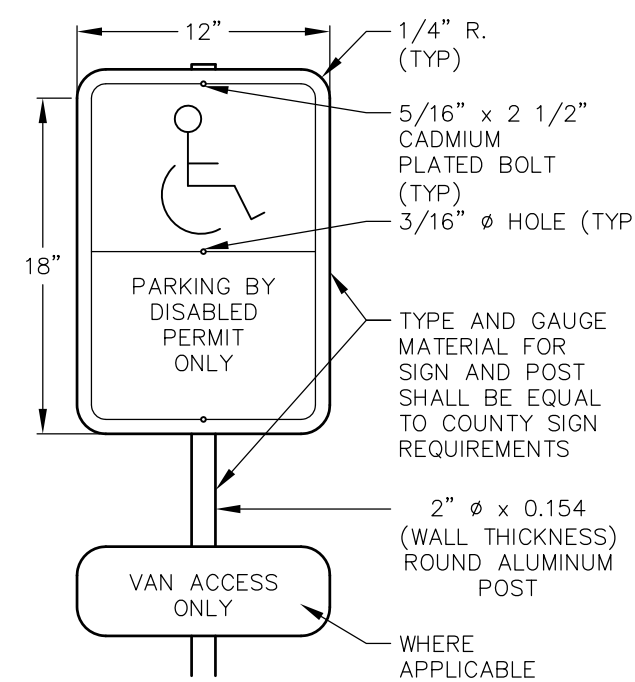


TYPICAL PARKING SPACE STRIPING DETAIL

N.T.S.



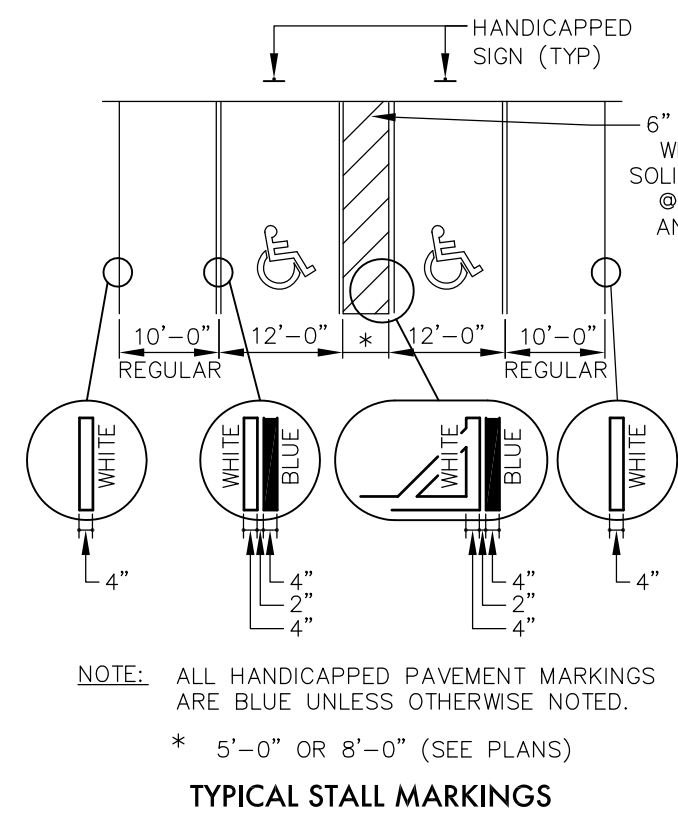
**TYPICAL PAVEMENT MARKING
FOR HANDICAPPED PARKING SPACE**



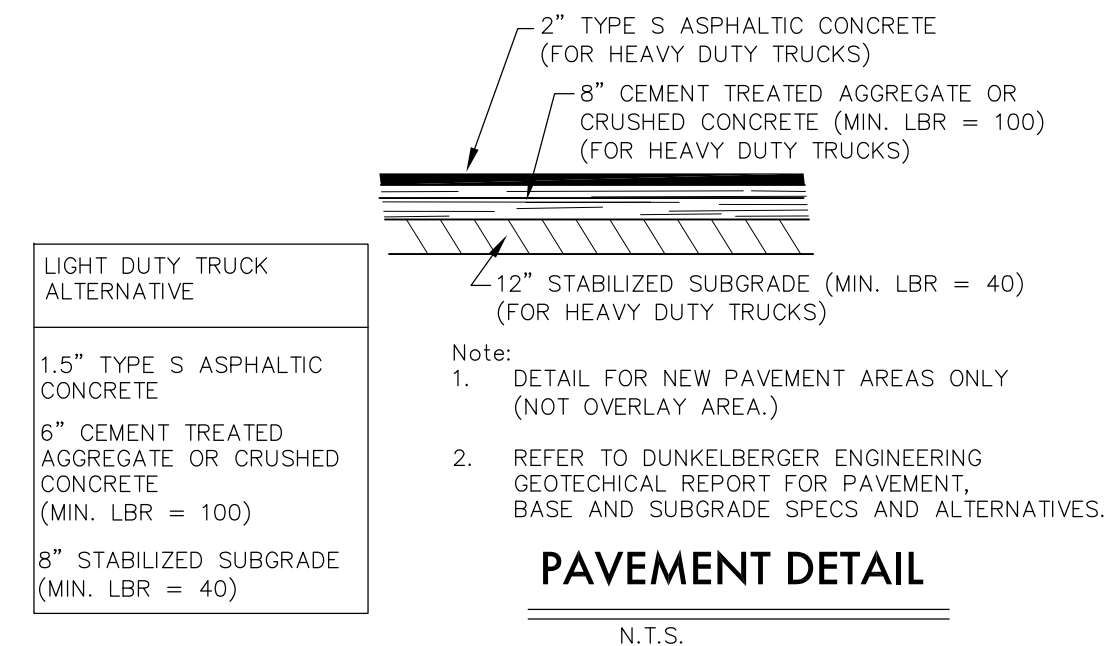
TYPICAL STALL MARKINGS

HANDICAP PARKING DETAIL

N.T.S.

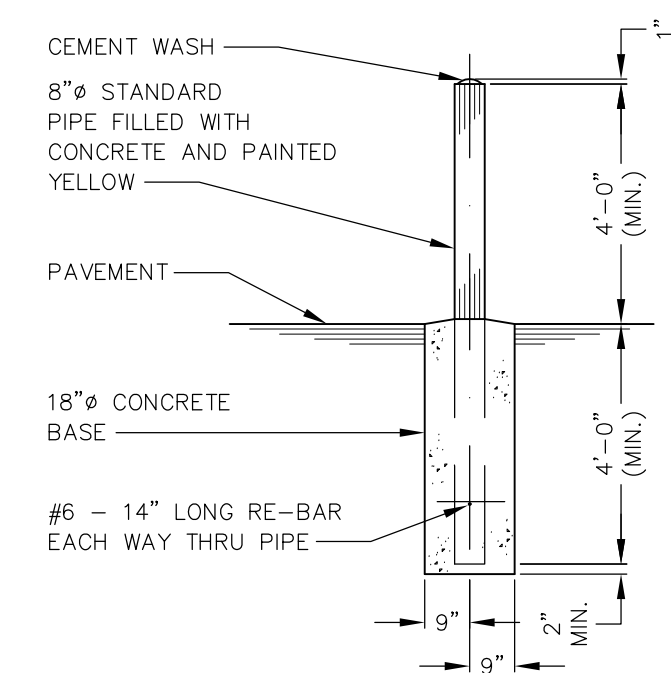


TYPICAL STALL MARKINGS



PAVEMENT DETAIL

N.T.S.



**TYPICAL EXTERIOR
GUARD POST DETAIL**

N.T.S.

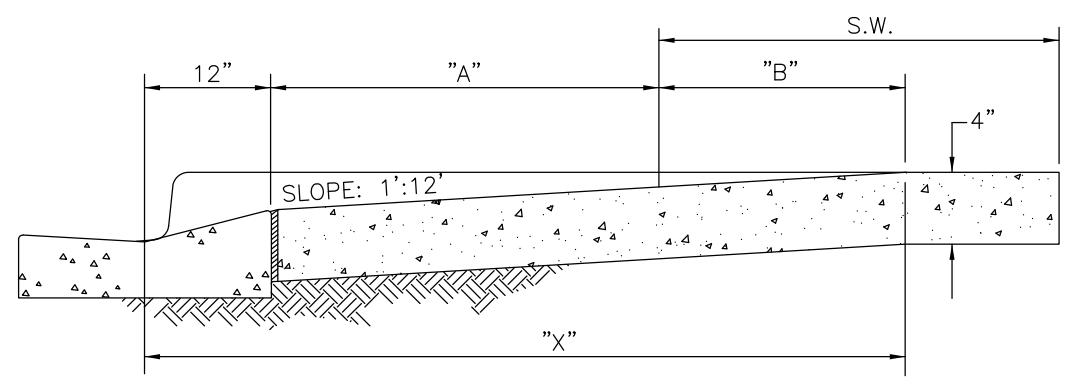
Preliminary Not for Construction

GENERAL NOTES

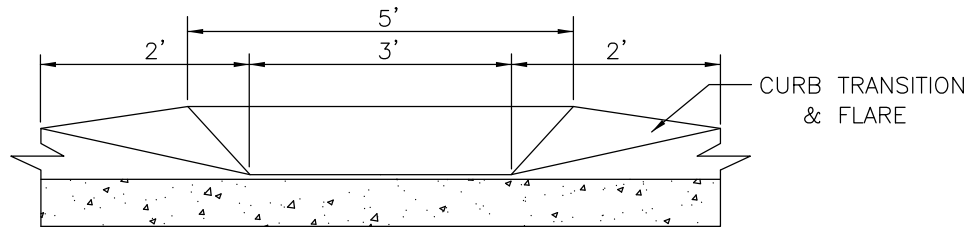
- SIDEWALK SHALL BE CONSTRUCTED A MINIMUM OF 4" THICK, USING 3000 psi CONCRETE, WHERE SIDEWALK BISECTS A DRIVEWAY, THE MINIMUM SHALL BE 6" OF CLASS 1 CONCRETE REINFORCED WITH 6"x6" #10 WIRE MESH.
* SEE SHEETS #101.2 & 101.3.
- ALL SIDEWALKS SHALL BE CONSTRUCTED TO THE SPECIFICATIONS OF THE MANATEE COUNTY LAND DEVELOPMENT CODE, SECTION 722. A MINIMUM (5) FOOT WIDE SIDEWALK SHALL BE INSTALLED ALONG THE NORTH AND WEST SIDES OF ALL NEW LOCAL STREETS WHICH ARE CONSTRUCTED IN CONJUNCTION WITH A NEW RESIDENTIAL DEVELOPMENT. A SIDEWALK A MINIMUM OF (5) FEET IN WIDTH SHALL BE INSTALLED ON BOTH SIDES OF ALL THOROUGHFARES. REFER TO F.D.O.T. ROADWAY AND TRAFFIC STANDARDS, LATEST REVISION FOR CURB CUT RAMP SPECIFICATIONS.
- THE CONCRETE SHALL BE GIVEN A BROOM FINISH. THE SURFACE VARIATIONS SHALL NOT BE MORE THAN 1/4" UNDER A TEN FOOT STRAIGHTEDGE, NOR MORE THAN 1/8" ON A FIVE-FOOT TRAVERSE SECTION. THE EDGE OF THE SIDEWALK SHALL BE CAREFULLY FINISHED WITH AN EDGING TOOL HAVING A RADIUS OF 1/2".
- EXPANSION JOINT: EXPANSION JOINTS BETWEEN THE SIDEWALKS AND THE CURB OR DRIVEWAY OR AT FIXED OBJECTS AND SIDEWALK INTERSECTIONS SHALL BE 1/2" MATERIAL SHALL MEET THE REQUIREMENTS OF ASHTO M153 OR ASHTO M213. FOR LONG POORS, AN EXPANSION JOINT SHALL BE PLACED AT INTERVALS NOT TO EXCEED 120'.
- CONTRACTION JOINTS:
OPEN TYPE JOINTS
OPEN TYPE CONTRACTION JOINTS SHALL BE FORMED BY STAKING A METAL BULKHEAD IN PLACE AND DEPOSITING THE CONCRETE ON BOTH SIDES. AFTER THE CONCRETE HAS SET SUFFICIENTLY TO PRESERVE THE WIDTH AND THE SHAPE OF THE JOINT, THE BULKHEAD SHALL BE REMOVED. AFTER THE SIDEWALK HAS BEEN FINISHED OVER THE JOINT, THE SLOT SHALL BE FINISHED WITH A TOOL HAVING A 1/2" RADIUS.
SAWED JOINTS
A SLOT APPROXIMATELY 3/16" WIDE AND NOT LESS THAN 1" DEEP AT 10' CENTERS SHALL BE CUT WITH A CONCRETE SAW AFTER THE CONCRETE HAS SET.
- SIDEWALKS ALONG OTHER STREETS SHALL BE CONSTRUCTED AND DEDICATED AS REQUIRED BY THE APPROVING AUTHORITY WHEN NECESSARY TO CONTINUE AN EXISTING OR PROPOSED SIDEWALK.
- HANDICAP RAMPS SHALL MEET FLORIDA ACCESSIBILITIES STANDARDS, AND SECTIONS 301.0, 301.1 AND 301.2.
- ALL SIDEWALKS ON R/W WITHIN 10' OF AN EXISTING OR PROPOSED TREE THAT WILL EXCEED 6" IN DIAMETER AT MATURITY, SHALL BE 5" THICK AND CONTAIN #4 REBAR CENTERED VERTICALLY AND SPACED 3' ON CENTER. PALMS ARE NOT CONSIDERED TREES.

*NOTE: FOR COMPLETE SIDEWALK DETAILS, SEE F.D.O.T. DESIGN STANDARDS, 2006 EDITION, INDEX 304, SHEETS 1 THROUGH 6 AND INDEX 310, SHEETS 1 & 2.

MANATEE COUNTY		SIDEWALKS GENERAL NOTES	301.0
REV. BY	DATE		
	6/12/07		
	DATE OF B.O.C.C. APPROVAL		

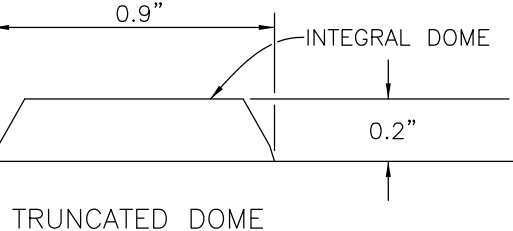
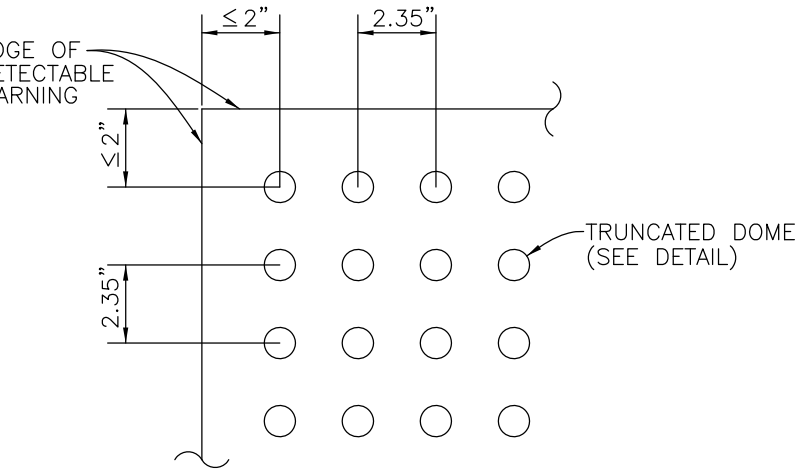


S.W.= SIDEWALK	"A"	S.W. + A + 10"	"X"	"B"
5'	0	5.8'	5.8'	5'
6'	0	6.8'	6.8'	6'
7'	0	7.8'	7.3'	6.5'
8'	0	8.8'	7.3'	6.5'
5'	2.5'	8.3'	7.8'	5'
5'	2.5'	8.3'	8.1'	4.8'
5'	3'	8.8'	8.2'	4.4'
5'	3.5'	9.3'	8.4'	4.1'
5'	4'	9.8'	8.6'	3.8'
5'	4.5'	10.3'	8.7'	3.4'
5'	5'	10.8'	9.1'	3.1'



NOTE: FOR COMPLETE HANDICAP, PUBLIC SIDEWALK AND CURB RAMP DETAILS, SEE F.D.O.T. DESIGN STANDARDS, 2006 EDITION, INDEX 304, SHEETS 1 THROUGH 6.

MANATEE COUNTY		HANDICAPPED RAMP SHEET 2	302.2
REV. BY	DATE		
	6/12/07		
	DATE OF B.O.C.C. APPROVAL		



CURB RAMP DETECTABLE WARNING DETAIL

NOTES:

DETECTABLE WARNINGS ON WALKING SURFACES

THE DETECTABLE WARNING SHALL EXTEND THE FULL WIDTH AND DEPTH OF THE CURB RAMP.

DETECTABLE WARNINGS SHALL CONSIST OF RAISED TRUNCATED DOMES WITH A DIAMETER OF NOMINAL 0.9 INCH, A HEIGHT OF NOMINAL 0.2 INCH AND A CENTER-TO-CENTER SPACING OF NOMINAL 2.35 INCH AND SHALL CONTRAST VISUALLY WITH ADJOINING SURFACES, EITHER LIGHT-ON-DARK, OR DARK-ON-LIGHT.

THE MATERIAL USED TO PROVIDE CONTRAST SHALL BE AN INTEGRAL PART OF THE WALKING SURFACE. DETECTABLE WARNINGS USED ON INTERIOR SURFACES SHALL DIFFER FROM ADJOINING WALKING SURFACES IN RESILIENCY OR SOUND-ON-GAME CONTACT.

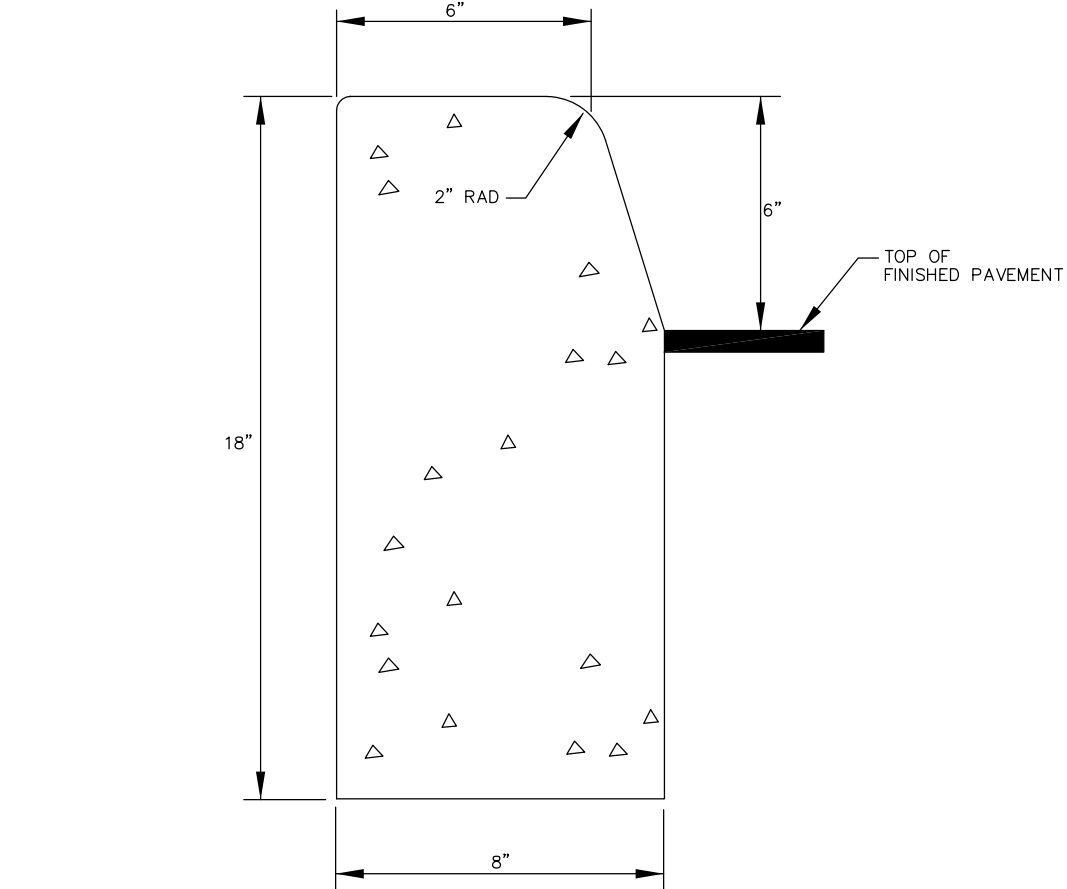
THE MATERIAL USED TO PROVIDE CONTRAST SHOULD CONTRAST BY AT LEAST 70% CONTRAST IN PERCENT IS DETERMINED BY:

$$\text{CONTRAST} = \frac{(B1 - B2)}{B1} \times 100$$

WHERE B1 = LIGHT REFLECTANCE VALUE (LRV) OF THE LIGHTER AREA AND B2 = LIGHT REFLECTANCE VALUE (LRV) OF THE DARKER AREA.

NOTE THAT IN ANY APPLICATION BOTH WHITE AND BLACK ARE NEVER ABSOLUTE; THUS, B1 NEVER EQUALS 100 AND B2 IS ALWAYS GREATER THAN 0.

MANATEE COUNTY		CURB RAMP DETECTABLE WARNINGS	302.3
REV. BY	DATE		
	6/12/07		
	DATE OF B.O.C.C. APPROVAL		



TYPE "D"
HIGH BACK CURB

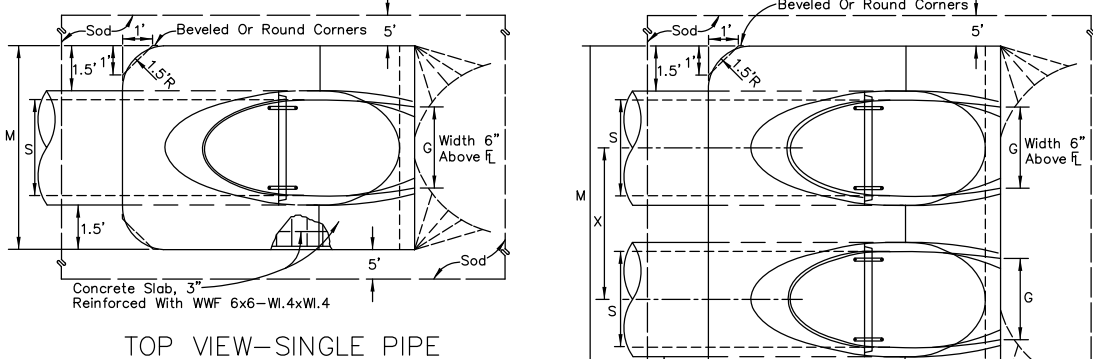
A) CLASS 1 CONCRETE, 3,000 P.S.I. AT 28 DAYS.

B) CURB SHALL MEET THE SPECIFICATIONS ESTABLISHED BY F.D.O.T. STANDARD SPECIFICATIONS PER F.D.O.T. ROADWAY AND TRAFFIC DESIGN STANDARDS INDEX NO. 300, LATEST REVISION.

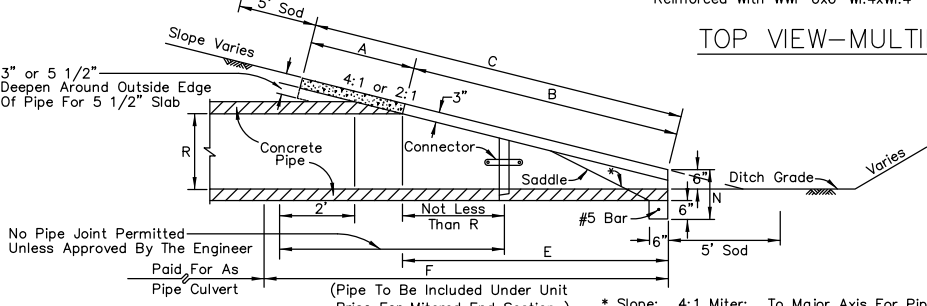
MANATEE COUNTY		TYPE D CURB	201.4
REV. BY	DATE		
	6/12/07		
	DATE OF B.O.C.C. APPROVAL		

ELLIPTICAL PIPE

Rise R	Span S	DIMENSIONS & QUANTITIES								M			
		X	A	B	C	E	F	G		Single Pipe	Double Pipe	Triple Pipe	Quad Pipe
2:1 Slope	12"	18"	2'-10"	1.97'	1.62'	3.59'	1.56'	6'	1.50'	4.97'	7.75'	10.96'	13.42'
	14"	23"	3'-4"	2.01'	1.69'	4.00'	1.89'	6'	1.80'	5.34'	8.71'	12.04'	15.36'
	16"	30"	4'-0"	2.11'	2.02'	4.93'	2.17'	6'	2.37'	6.92'	10.94'	14.94'	18.94'
	24"	38"	5'-0"	2.20'	2.85'	6.05'	3.58'	6'	2.80'	6.79'	11.79'	16.79'	21.79'
	34"	53"	7'-0"	2.43'	5.72'	8.15'	5.23'	6'	3.53'	8.25'	15.25'	22.25'	29.25'
	38"	60"	7'-10"	2.52'	6.46'	9.06'	5.89'	6'	3.90'	8.92'	16.32'	24.32'	32.32'
	43"	68"	8'-11"	2.62'	7.39'	10.01'	6.73'	10'	4.28'	9.67'	18.58'	27.50'	36.42'
	48"	76"	9'-11"	2.71'	8.33'	11.04'	7.60'	10'	4.69'	10.42'	20.33'	30.29'	40.17'
	53"	83"	10'-8"	2.80'	9.28'	12.06'	8.39'	12'	4.77'	11.08'	21.79'	32.42'	43.08'
	58"	91"	11'-8"	2.90'	10.19'	13.09'	9.23'	15'	5.01'	11.83'	23.50'	35.17'	46.83'
4:1 Slope	12"	18"	2'-10"	2.36'	3.06'	3.42'	3.03'	5'	1.50'	4.97'	7.75'	10.96'	13.42'
	14"	23"	3'-4"	2.44'	3.75'	6.19'	3.70'	6'	1.80'	5.34'	8.71'	12.04'	15.36'
	16"	30"	4'-0"	2.62'	5.47'	8.02'	5.36'	6'	2.37'	6.92'	10.94'	14.94'	18.94'
	24"	38"	5'-0"	2.79'	7.18'	9.97'	7.03'	10'	2.80'	6.79'	11.79'	16.79'	21.79'
	34"	53"	7'-0"	3.05'	8.90'	11.90'	8.70'	10'	3.19'	7.50'	13.42'	19.33'	25.25'
	38"	60"	7'-10"	3.22'	10.62'	13.84'	10.36'	13'	3.57'	8.25'	15.25'	22.25'	29.25'
	43"	68"	8'-11"	3.56'	13.71'	17.27'	13.36'	17'	4.28'	9.67'	18.58'	27.50'	36.42'
	48"	76"	9'-11"	3.74'	15.43'	19.10'	15.03'	19'	4.69'	10.42'	20.33'	30.29'	40.17'
	53"	83"	10'-8"	3.91'	17.15'	21.06'	16.70'	20'	4.77'	11.08'	21.79'	32.42'	43.08'
	58"	91"	11'-8"	4.08'	18.87'	22.95'	18.38'	22'	5.01'	11.83'	23.50'	35.17'	46.83'



TOP VIEW-MULTIPLE PIPE



MANATEE COUNTY		MITERED END SECTION FOR ELLIPTICAL, SINGLE, AND MULTIPLE PIPES	102.1
REV. BY	DATE		
	6/12/07		
	DATE OF B.O.C.C. APPROVAL		

METAL STORM SEWER PIPE, GENERAL NOTES

- SHALL MEET REQUIREMENTS OF SECTION 430 AND 943 OF THE F.D.O.T.'s LATEST REVISION/UPDATE SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND ITS SUPPLEMENT. ALL PIPE SHALL BE TYPE 'A', FULLY BITUMINOUS COATED.
- SHALL HAVE GASKETED WATER TIGHT JOINTS AT ALL LOCATIONS.
- SHALL HAVE THE PROJECT SITE TESTED BY A CERTIFIED LAB FOR PH, RESISTIVITY, SULFATES AND CHLORIDES. TESTS SHALL BE IN ACCORDANCE WITH FLORIDA METHOD OF TEST FM 5-550, 551, 552 & 553 AND SUBMITTED TO THE TRANSPORTATION DEPARTMENT FOR REVIEW.
- SHALL HAVE A MINIMUM COVER OF 18".
- SHALL NOT BE ALLOWED WITHIN THE ROAD RIGHT-OF-WAY OR CARRY RIGHT-OF-WAY RUNOFF.
- ALL STORMWATER PIPE SHALL BE INSTALLED BEHIND THE CURB OR EDGE OF PAVEMENT AND WITHIN THE RIGHT OF WAY.

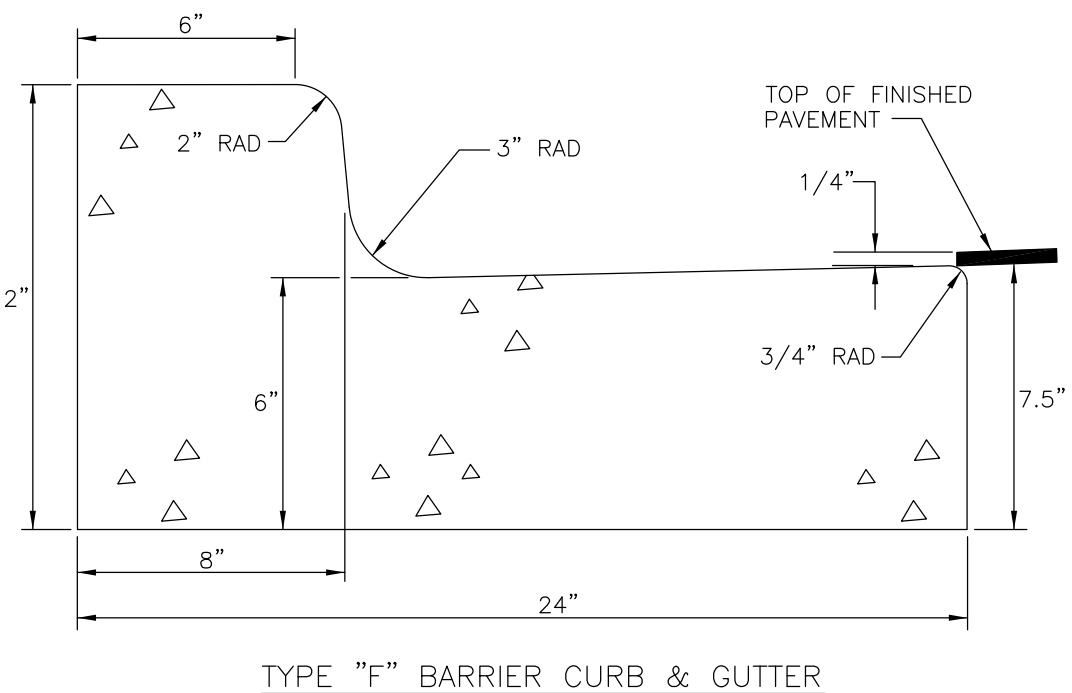
HDPE STORM SEWER PIPE GENERAL NOTES

- HDPE SHALL MEET CURRENT F.D.O.T. STANDARD SPECIFICATIONS.
- MINIMUM COVER - 9" (TOP OF PIPE TO BOTTOM OF RIDGED PAVEMENT OF DRIVEWAY)
- 15" (TOP OF PIPE TO BOTTOM OF FLEXIBLE BASE OF DRIVEWAY)
- SIZES ARE LIMITED TO CURRENT F.D.O.T. STANDARD SPECIFICATIONS.
- HDPE PIPE IS NOT ALLOWED UNDER ROADWAY.

FIBER OR WIRED REINFORCED CONC. PIPE, GENERAL NOTES

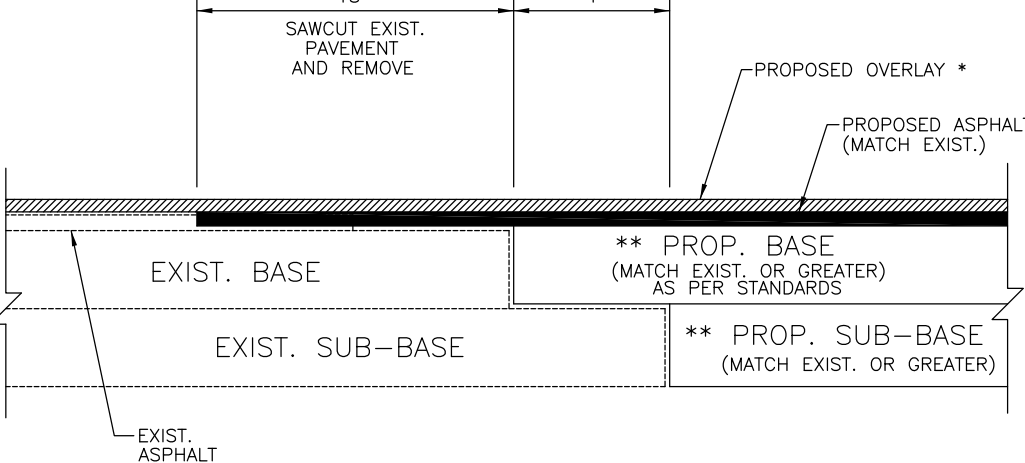
- FRCP SHALL MEET CURRENT F.D.O.T. STANDARD SPECIFICATIONS.
- SIZES LIMITED TO F.D.O.T. CURRENT STANDARD SPECIFICATIONS.

MANATEE COUNTY		STORM SEWER PIPE GENERAL NOTES	205.0
REV. BY	DATE		
	6/12/07		
	DATE OF B.O.C.C. APPROVAL		



- CLASS 1 CONCRETE 3,000 P.S.I. AT 28 DAYS.
- CURB AND GUTTER SHALL MEET THE SPECIFICATIONS ESTABLISHED BY FLORIDA D.O.T. STANDARD SPECIFICATIONS PER F.D.O.T. ROADWAY AND TRAFFIC DESIGN STANDARDS INDEX NO. 300, LATEST REVISION.

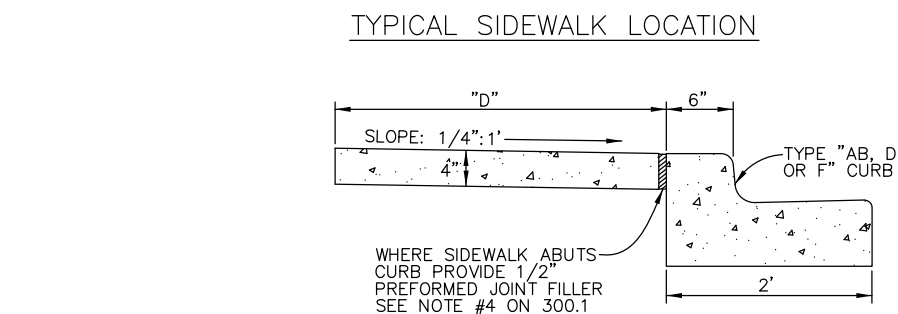
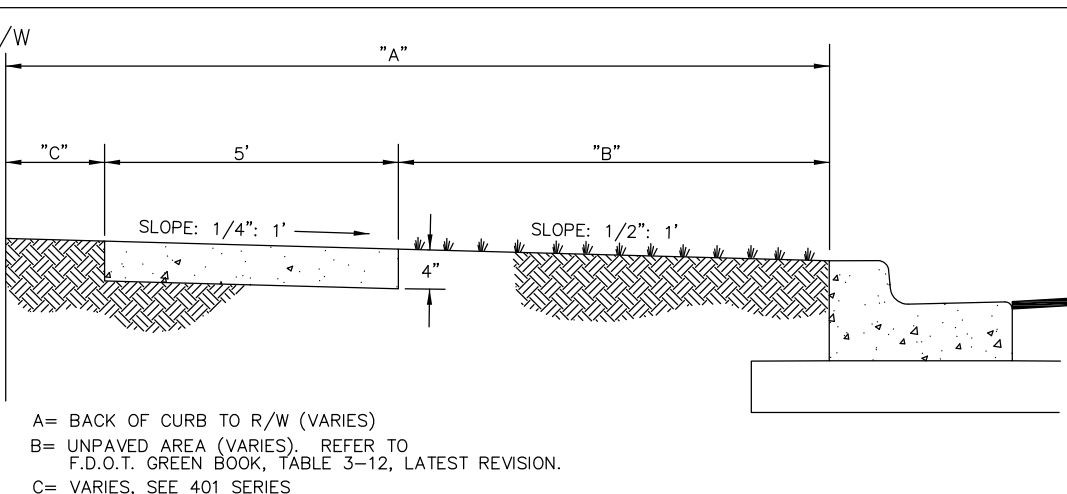
MANATEE COUNTY		TYPE F CURB & GUTTER	201.2
REV. BY	DATE		
	6/12/07		
	DATE OF B.O.C.C. APPROVAL		



- * NOTE: LIMITS OF OVERLAY - EDGE OF PAVEMENT TO EDGE OF PAVEMENT AND 25' BEYOND LIMITS OF CONSTRUCTION.
- ** NOTE: CONNECTION TO OLDER (SUBSTANDARD THICKNESS) ROADS MAY REQUIRE THICKER PROPOSED BASE AND SUB-BASE TO MEET CURRENT STANDARDS.
- SIGNAGE AND MARKING PLAN SHALL ACCOMPANY CONSTRUCTION PLAN.

ROAD CONNECTION DETAIL
N.T.S.

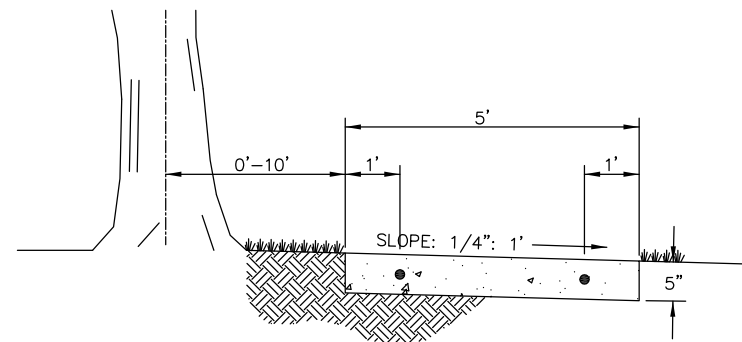
MANATEE COUNTY		ROAD CONNECTION DETAIL	403.3
REV. BY	DATE		
	6/12/07		
	DATE OF B.O.C.C. APPROVAL		



D= SIDEWALK WIDTH SHALL BE 6" STANDARD, WHERE WALK ABUTS TYPE "AB, D OR F" CURB. WHERE SPEED LIMIT IS 25 MPH OR LESS, WIDTH CAN BE 5'-6".

* SEE SHEET 300.1 "GENERAL NOTES" FOR FURTHER INFORMATION

ALTERNATE SIDEWALK LOCATION



MANATEE COUNTY		SIDEWALK REQUIREMENTS	301.1
REV. BY	DATE		
	6/12/07		
	DATE OF B.O.C.C. APPROVAL		

Preliminary Not for Construction

THRUST BLOCK DIMENSIONS B ft. x d inches												
PIPE SIZE (IN.)	90° BEND		45° BEND		22.5° BEND		11.25° BEND		DEAD END TEE		45° WYE	
	B	d	B	d	B	d	B	d	B	d	B	d
4	1.5	3 1/2	1.1	3 1/2	0.8	3 1/2	0.6	3 1/2	1.3	3 1/2	1.1	3 1/2
6	2.2	5 1/4	1.6	3 3/4	1.2	3 1/2	0.8	3 1/2	1.9	4 1/2	1.6	3 3/4
8	2.9	7	2.1	5	1.5	3 1/2	1.1	3 1/2	2.4	5 3/4	2.0	4 3/4
10	3.5	8 1/2	2.6	6 1/4	1.9	4 1/2	1.3	3 1/2	3.0	7 1/4	2.5	6
12	4.2	10	3.1	7 1/2	2.2	5 1/4	1.6	3 3/4	3.5	8 1/2	3.0	7 1/4
14	4.9	11 3/4	3.6	8 3/4	2.6	6 1/4	1.8	4 1/4	4.1	9 3/4	3.4	8 1/4
16	5.5	13 1/4	4.1	9 3/4	2.9	7	2.1	5	4.7	11 1/4	3.9	9 1/4
18	6.2	15	4.6	11	3.3	8	2.3	5 1/2	5.2	12 1/2	4.4	10 1/2
20	6.9	16 1/2	5.0	12	3.6	8 3/4	2.6	6 1/4	5.8	14	4.9	11 3/4
24	8.2	19 3/4	6.0	14 1/2	4.3	10 1/4	3.1	7 1/2	6.9	16 1/2	5.8	14
30	10.1	24 1/4	7.5	18	5.3	12 3/4	3.8	9	8.5	20 1/2	7.2	17 1/4
36	12.1	29	8.9	21 1/4	6.4	15 1/4	4.5	10 3/4	10.2	24 1/2	8.6	20 3/4

REINFORCEMENT MAT SCHEDULE												
FOR DIM. B BETWEEN 5.75' & 12.5' USE #4 @ 8" EACH WAY FOR DIM. B LESS THAN 5.75' USE #3 @ 8" EACH WAY												

NOTES:

- ALL THRUST BLOCKS SHALL BE CAST IN PLACE. FITTINGS ADJACENT TO THRUST BLOCKS SHALL BE WRAPPED IN POLYETHYLENE.
- THIS TABLE IS BASED ON WATER PRESSURE=180 PSI WITH AN ALLOWABLE SOIL BEARING PRESSURE=2000 PSF, CONCRETE STRENGTH f_c =3000 PSI, REINFORCEMENT f_y =60.0 KSI. THRUST BLOCK SHALL BE CAST AGAINST FIRM UNDISTURBED SOIL.
- FOR LARGER "B" DIMENSIONS IT IS NECESSARY TO CHECK THAT PIPE IS SUFFICIENTLY DEEP TO ALLOW 15" MIN. SOIL COVER OVER TOP EDGE OF THRUST BLOCK.
- RESTRAINED JOINTS SHALL BE USED IN LIEU OF THRUST BLOCKS TO SAVE SPACE. THRUST BLOCKS SHALL BE USED IN SITUATIONS WHERE THRUST BLOCKS AND RESTRAINED JOINTS ARE BOTH REQUIRED.

MANATEE COUNTY PUBLIC WORKS DEPARTMENT		CONCRETE THRUST BLOCKS		UG-7	
REV. BY CLB/KE	DATE 2/05	MARCH 17, 2009			
JAA/JB	2/09	DATE OF APPROVAL			

REQUIRED LENGTH OF RESTRAINED JOINT PIPE FOR DR-18 PVC PIPE												
MAIN PIPE SIZE	HORIZ. BENDS			TEES			REDUCERS			PLUGS	VALVES	
	90°	45°	22.5°	SIZE	LENGTH	SIZE	LENGTH	SIZE	LENGTH			
24	90	38	18	X24	169	X20	132	X16	90	6		214
20	78	32	16	X20	141	X16	101	X12	53	1		184
16	66	27	13	X16	111	X12	67	X8	24			151
12	52	22	10	X12	80	X8	31	X6	1			118
10	44	18	9	X10	63	X8	40	X6	7			100
8	37	15	7	X8	49	X6	18	X4	1			83
6	29	12	6	X6	29	X4	1					63
4	21	8	4	X4	12							45

NOTES:

- RESTRAIN 11.25° BENDS 50% OF LENGTH FOR 22.5° BENDS.
- ALL VALVES AND FITTINGS SHALL BE RESTRAINED TO THE CONNECTING SECTIONS OF PIPE.
- ALL ISOLATION VALVES MUST BE PROPERLY ANCHORED OR RESTRAINED TO RESIST A 180 PSI TEST PRESSURE IN EITHER DIRECTION.
- PIPE SIZES ARE GIVEN IN INCHES.
- RESTRAINED PIPE LENGTHS ARE GIVEN IN FEET.
- LENGTHS SHOWN ARE FOR A TEST PRESURE OF 180 PSI.
- THE RESTRAINED LENGTHS SHOWN IN THESE TABLES ARE BASED ON SOIL CLASSIFICATION SP WITH AWWA TYPE 3 TRENCH CONDITIONS, 180 PSI TEST PRESSURE, 3 FEET OF COVER AND 1.5 FACTOR OF SAFETY. ACTUAL BURY CONDITIONS MUST BE DETERMINED BY THE ENGINEER OF RECORD AND THE RESTRAINED LENGTHS MODIFIED ACCORDINGLY.
- SEE RESTRAINED LENGTHS FOR PIPE STD. DETAIL UG-10.

MANATEE COUNTY PUBLIC WORKS DEPARTMENT		RESTRAINED LENGTHS FOR PVC PIPE		UG-8	
REV. BY CLB/KE	DATE 2/05	MARCH 17, 2009			
JAA/JB	10/08	DATE OF APPROVAL			

NOTES:

- USE OF TYPE A-2 AND A-3 PIPE BEDDING TO BE DETERMINED IN THE FIELD BY THE ENGINEER.
- 10" MAX. FOR PIPE DIAMETERS LESS THAN 24"; 12" MAX. FOR PIPE DIAMETER 24" AND LESS THAN 42"; 24" MAX. FOR PIPE DIAMETER 42" AND OVER.
- 4" MAX. FOR PIPE 16" DIAMETER & LESS; 6" MAX. FOR PIPE 18" TO 36" DIAMETER; AND 9" MAX. FOR PIPE 42" DIAMETER AND LARGER.
- PIPE INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS.
- ASPHALTIC CONCRETE FRICTION COURSE WITH PRIME COAT SHALL BE THE SAME DEPTH AND TYPE AS EXISTING OR A MINIMUM OF ONE INCH, WHICHEVER IS GREATER.
- SHEETING ORDERED LEFT IN PLACE TO BE CUT OFF 24" BELOW FINISHED GRADE OR 12" BELOW SUBGRADE.
- BASE SHALL BE 8" MINIMUM THICKNESS CRUSHED CONCRETE. SAND ASPHALT BASE WILL BE AN ACCEPTABLE ALTERNATIVE.
- BACKFILL AASHTO M-145 SHALL BE PLACED IN LAYERS NOT TO EXCEED 6 INCHES. EACH LAYER SHALL BE THOROUGHLY TAMPED AND/OR ROLLED TO 98% AASHTO T-180 DENSITY.
- TEMPORARY PATCHES WILL BE INSTALLED TO PROVIDE A SMOOTH ALL WEATHER SURFACE AT ALL TIME. PERMANENT REPLACEMENT TO BE MADE AS SOON AS POSSIBLE.
- RESTORE SIGNAGE & MARKING WITH THERMOPLASTIC PER FDOT STANDARDS, LATEST EDITION.
- TRACER WIRE NOT REQUIRED FOR GRAVITY SEWERS.
- NOTES 5.) THRU 11.) ARE MINIMUM REQUIREMENTS. REFER TO MANATEE COUNTY HIGHWAY AND TRAFFIC STANDARDS FOR ADDITIONAL REQUIREMENTS.

MANATEE COUNTY PUBLIC WORKS DEPARTMENT		TRENCH WITH ASPHALT PAVEMENT SURFACE TYPE A-1 PIPE BEDDING		UG-12	
REV. BY CLB/KE	DATE 02/05	MARCH 17, 2009			
JAA/JB	10/08	DATE OF APPROVAL			
JAA/JEA	02/09				

NOTES:

- WELPHOLES SHALL BE EXCLUDED FROM THE FIRE HYDRANT.
- FIRE HYDRANTS SHALL BE A MINIMUM OF 6' OFF EDGE OF PAVEMENT AND 10' MAX. FROM BACK OF CURB, WHERE POSSIBLE AND WHERE SIDEWALK IS TO BE INSTALLED, FIRE HYDRANT SHALL BE LOCATED BETWEEN SIDEWALK AND RIGHT-OF-WAY LINE.
- HYDRANTS SHALL BE FUSION BONDED EPOXY COATED SAFETY YELLOW FOR WATER AND PURPLE (PANTONE 522C) FOR RECLAIMED WATER. HYDRANT SHALL BE DUCTILE IRON CONSTRUCTION.
- FIRE HYDRANTS SHALL BE PLACED SO THAT STORM WATER FLOWS AWAY FROM THE HYDRANT.
- FIRE HYDRANTS SHALL BE CONSTRUCTED WITH "GROUND LINE" SET TO FINISHED GRADES AS ESTABLISHED IN THE FIELD. NORMAL BURY IS 3 FEET OF COVER FOR ALL WATER LINES.
- FIRE HYDRANTS MAY BE CONSTRUCTED WITH "GRADELOCK" OFFSET FITTING.
- RAISED REFLECTIVE PAVEMENT MARKER (BLUE) FOR POTABLE WATER (PURPLE) FOR RECLAIMED WATER SHALL BE INSTALLED AT CENTERLINE OF PAVEMENT ADJACENT TO EACH HYDRANT.
- PRECAST CONCRETE THRUST BLOCKS & PADS SHALL NOT BE USED.
- ALL EXPOSED EDGES OF CONCRETE SHALL HAVE 1/2" CHAMFER.
- FIRE HYDRANT VALVE SHALL BE FASTENED DIRECTLY TO TEE.
- IN-LINE VALVES SHOULD BE LOCATED AT HYDRANT TEES.
- HYDRANTS SHALL BE LOCATED ON SAME SIDE OF ROAD AS WATER MAIN UNLESS APPROVED BY M.C.U.O.D.
- THERE MUST BE A CLEARANCE OF 7 1/2 FEET FROM FRONT AND BOTH SIDES, AND FOUR FEET TO THE REAR OF THE HYDRANT, TO ABOVE GRADE OBSTRUCTIONS INCLUDING POSTS, FENCES, TREES, ETC., PER THE FLORIDA FIRE PREVENTION CODE.
- SEE GATE VALVE, BOX AND LID STANDARD DETAIL UW-2.
- SHOULD THE FIRE HYDRANT'S CONCRETE PAD OVERLAP THE SIDEWALK; THE TRACER WIRE TEST STATION BOX SHALL NOT BE LOCATED WITHIN THE SIDEWALK.

MANATEE COUNTY PUBLIC WORKS DEPARTMENT		FIRE HYDRANT ASSEMBLY		UW-5	
REV. BY CLB/KE	DATE 03/06	MARCH 17, 2009			
JAA/JB	10/08	DATE OF APPROVAL			
JAA/KE	02/09				

NOTES:

- GATE VALVE TO BE MARKED IN CURB WITH A "RW" WITH A FOOTAGE FROM THE BACK OF CURB TO THE VALVE OR IF NO CURB, A PURPLE DISC WITH "RW" IN THE EDGE OF PAVEMENT WITH THE FOOTAGE FROM THE DISC TO THE VALVE.
- ALL EXISTING AND PROPOSED VALVE BOXES SHALL BE ADJUSTED TO FINISHED GRADES AS ESTABLISHED IN THE FIELD.
- RECLAIMED WATER VALVES SHALL NOT BE PLACED IN HANDICAPPED RAMPS.
- ALL EXPOSED EDGES OF CONCRETE PAD SHALL BE CHAMFERED 1/2".

MANATEE COUNTY PUBLIC WORKS DEPARTMENT		GATE VALVE, BOX, COVER AND TAG		URW-4	
REV. BY RTH	DATE 11/99	MARCH 18, 1997			
JAA/JB	02/09	DATE OF APPROVAL			

NOTES:

- WHERE CLEARANCE IS LESS THAN 18", SEWER MAIN SHALL BE ENCASED AS DETAILED. FOR VERTICAL CLEARANCE OF 18" OR GREATER NO CASEMENT IS REQUIRED.
- NEW WATER MAIN AND SEWER MAIN PIPE SECTIONS ARE TO BE CENTERED AT THE CROSSING POINT REGARDLESS OF THE VERTICAL CLEARANCE.
- REFER TO STANDARD DETAIL UG-3 FOR ADDITIONAL CASING AND SPACER DETAILS.

MANATEE COUNTY PUBLIC WORKS DEPARTMENT		TYPICAL WATER & SEWER CROSSING		UG-2	
REV. BY CLB/KE	DATE 8/05	MARCH 17, 2009			
JAA/JB	02/09	DATE OF APPROVAL			

NOTES:

- USE OF TYPE A-2 AND A-3 PIPE BEDDING TO BE DETERMINED IN THE FIELD BY THE ENGINEER.
- PROVIDE ADEQUATE CLEARANCE TO PLACE AND COMPACT STAGE 1 BEDDING MATERIAL IN TRENCH AREA BELOW PIPE SPRINGLINE. PIPE EMBEDMENT MUST BE COMPACTED OUT TO THE TRENCH WALL OR 2.5 TIMES THE PIPE OD, WHICHEVER IS LESS.
- TYPICALLY 4" TO 6".
- PIPE INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS.
- TRACER WIRE NOT REQUIRED FOR GRAVITY SEWERS.

MANATEE COUNTY PUBLIC WORKS DEPARTMENT		TRENCH WITH UNIMPROVED SURFACE TYPE A-1 PIPE BEDDING		UG-11	
REV. BY WRT/KE	DATE 03/11	MAY 10, 2011			
JAA/JB	10/08	DATE OF APPROVAL			

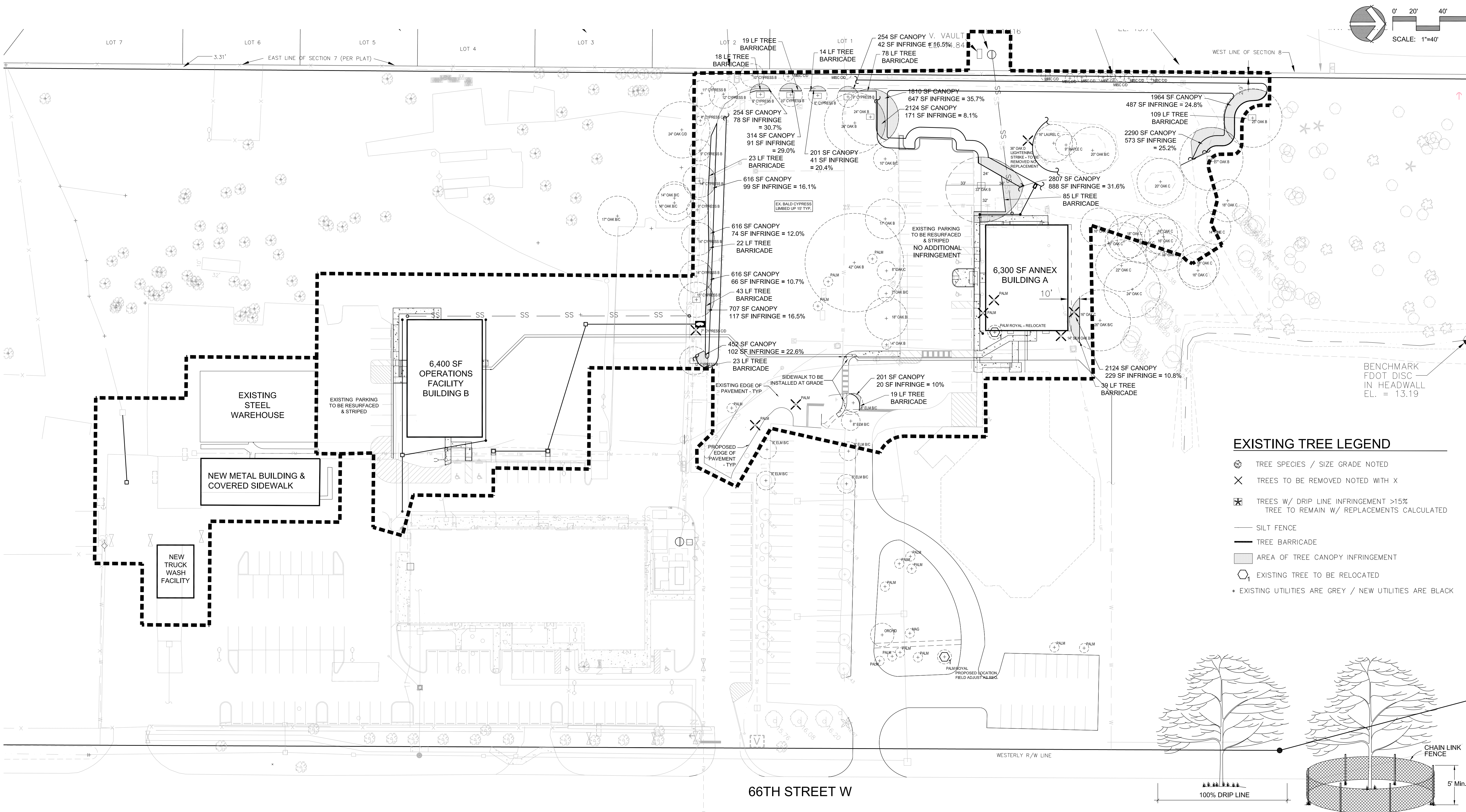
NOTES:

- DROP MANHOLES, MANHOLES WITH OPPOSING FLOW (DETAILS D & E), MANHOLES IMMEDIATELY UPSTREAM OF A LIFT STATION WET WELL, MANHOLES WITH GRAVITY SEWERS GREATER THAN 12 INCHES IN DIAMETER, MANHOLES RECEIVING A FORCE MAIN AND THE FIRST TWO GRAVITY MANHOLES DOWNSTREAM OF MANHOLES RECEIVING A FORCE MAIN SHALL HAVE AN APPROVED LINER.

MANATEE COUNTY PUBLIC WORKS DEPARTMENT		STANDARD PRE-CAST SANITARY SEWER MANHOLE FOR UNDISTURBED FLOW		US-2	
REV. BY CLB/KE	DATE 08/05	MARCH 17, 2009			
JAA/JB	10/08	DATE OF APPROVAL			
JAA/JB	02/09				

Preliminary Not for Construction

Fri, 10 Jan 2014 2:49pm W:\acsa\MANATEE COUNTY UTILITIES DISTRIBUTION CENTER (43274)\USMCLS-TP.dwg



EXOTIC PLANT SPECIES MANAGEMENT PLAN

All existing upland exotic and nuisance plant species existing on the site shall be removed per phase prior to the first Certificate of Occupancy issuance of that phase. The Owner agrees to perform an annual exotic inspection during the development process. Any identified exotics will be removed in accordance with Manatee County Land Development Code Section 715.4 and acceptable procedures as established by the Florida Department of Environmental Protection. Annual inspections and removal will be continued by the Owner.

TREE REPLACEMENT NOTES:

- IN THOSE AREAS WHERE THE TREE BARRICADE IS TO BE PLACED WITHIN THE DRIP LINE, OF A TREE TO BE PRESERVED, A TEMPORARY SILT FENCE SHALL BE ERECTED OUTSIDE OF THE DRIP LINE DURING INITIAL CLEARING OPERATIONS. AFTER THE INITIAL CLEARING HAS BEEN COMPLETED, THE SILT FENCE MAY BE RELOCATED TO THE DESIGNATED TREE BARRICADE LOCATION. CARE SHALL BE TAKEN TO MINIMIZE DAMAGES TO THE TREE TO BE PRESERVED THROUGH OUT THE SITE.
- TREES IDENTIFIED AS "TREES TO REMAIN WITH REPLACEMENTS PROVIDED DUE TO > 15% INFRINGEMENT" ARE TO BE PROTECTED DURING CLEARING AND GRADING OPERATIONS.
- UNLESS CANOPY DIMENSIONS ARE NOTED, TREE CANOPY OUTER LIMITS ESTIMATED USING THE FORMULA 1.0" RADIUS OF CANOPY PER 1.0" MEASURED EXISTING TREE DIAMETER MEASURED AT BREAST HEIGHT (APPROVED STANDARD BY MANATEE COUNTY ENVIRONMENTAL PLANNING).
- UNPROTECTED SPECIES ARE NOT INCLUDED IN TREE COUNTS.

TREE REPLACEMENT STATEMENT

PROPOSED REPLACEMENT IS IN ACCORDANCE WITH SECTION 714.8 OF THE MANATEE COUNTY LAND DEVELOPMENT CODE AND SPECIFIC APPROVAL FOR THE REDUCTION OF REPLACEMENT TREE SIZES APPROVED BY THE BOCC.

TREE REPLACEMENT

	4"-15" DBH	16"-30" DBH	OVER 30" DBH	PALM
TREES TO BE REMOVED				
OAK	0	1	0	---
MAPLE	0	0	0	---
SILK OAK	1	0	0	---
CYPRESS	1	0	0	---
PALM	---	---	---	4
TREES TO REMAIN WITH REPLACEMENTS PROVIDED DUE TO >15% INFRINGEMENT				
OAK	0	3	1	---
CYPRESS	7	0	0	---
TOTAL TREES TO REPLACE	9	4	1	4
REPLACEMENT RATIO	1:1	2:1	3:1	1:1
REPLACEMENT SIZE	3" CAL	4" CAL	4" CAL	8" CT
REPLACEMENT TREES REQ.	9	8	3	4

DIAGRAM "A"
N.T.S.

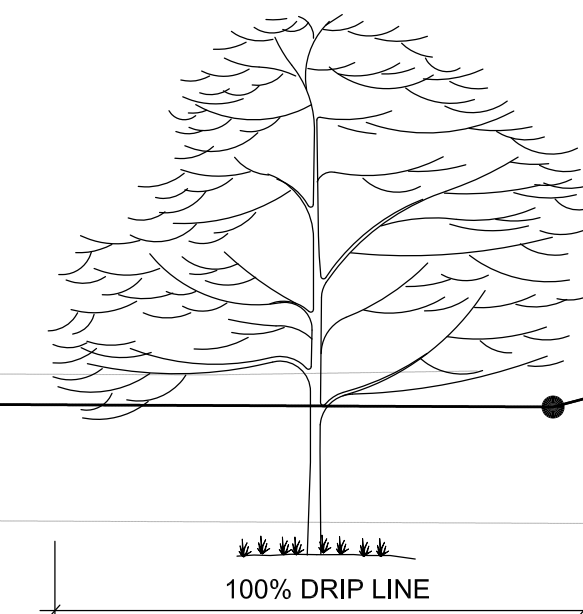
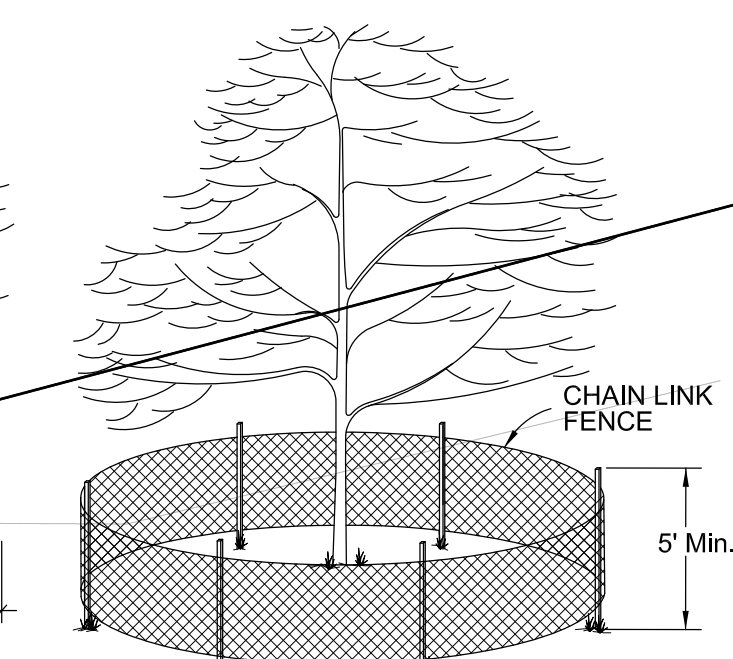


DIAGRAM "B"
N.T.S.



NOTES:

- PROTECTIVE BARRICADES TO PROTECT 100% OF CANOPY UNLESS OTHERWISE SPECIFIED.
- CONTRACTOR SHALL MAINTAIN THE BARRIERS UNTIL ALL PAVING, CONSTRUCTION AND HEAVY EQUIPMENT IS OUT OF THE AREA.
- TREE BARRICADES TO BE CONSTRUCTED OF CHAIN LINK FENCE (NEW OR USED) UNLESS OTHERWISE SPECIFIED.
- NO DEBRIS, FILL MATERIALS OR CONSTRUCTION ACTIVITY SHALL OCCUR WITHIN CONFINES OF BARRIER.
- PROTECT DESIGNATED TREES SCHEDULED TO REMAIN AGAINST:
 - UNNECESSARY CUTTING.
 - BREAKING OR SKINNING OF ROOTS.
 - SKINNING OR BRUISING OF BARK.
 - STOCKPILING CONSTRUCTION OR EXCAVATION MATERIALS WITHIN DRIP LINE.
 - EXCESS FOOT AND ALL VEHICULAR TRAFFIC.
 - PARKING VEHICLES WITHIN DRIP LINE.
- PROVIDE WATER TO TREES AS REQUIRED TO MAINTAIN THEIR VIGOR.
- WHEN NECESSARY TO CUT ROOT OVER 1" DIAMETER OF TREES TO REMAIN, CUT MUST BE A CLEAN, PERPENDICULAR CUT. COAT CUT FACES OF ROOTS WITH AN EMULSIFIED ASPHALT OR OTHER ACCEPTABLE COATINGS FORMULATED FOR USE ON DAMAGED PLANT TISSUE. TEMPORARILY COVER EXPOSED ROOTS WITH WET BURLAP TO PREVENT DRYING AND COVER WITH EARTH AS SOON AS POSSIBLE.

TREE PROTECTION DETAIL

NOT TO SCALE

Preliminary Not for Construction

DESIGNED: KEB
DRAWN: KEB
DATE: 11.2013
JOB NO.: 00-43274
SCALE: 1"=40'
SHEET: 1501

FINAL SITE PLAN - TREE PROTECTION PLAN
FOR
MANATEE COUNTY UTILITIES DISTRIBUTION CENTER
LOCATED IN
SECTION 8, TOWNSHIP 35 SOUTH, RANGE 17 EAST
MANATEE COUNTY, FLORIDA

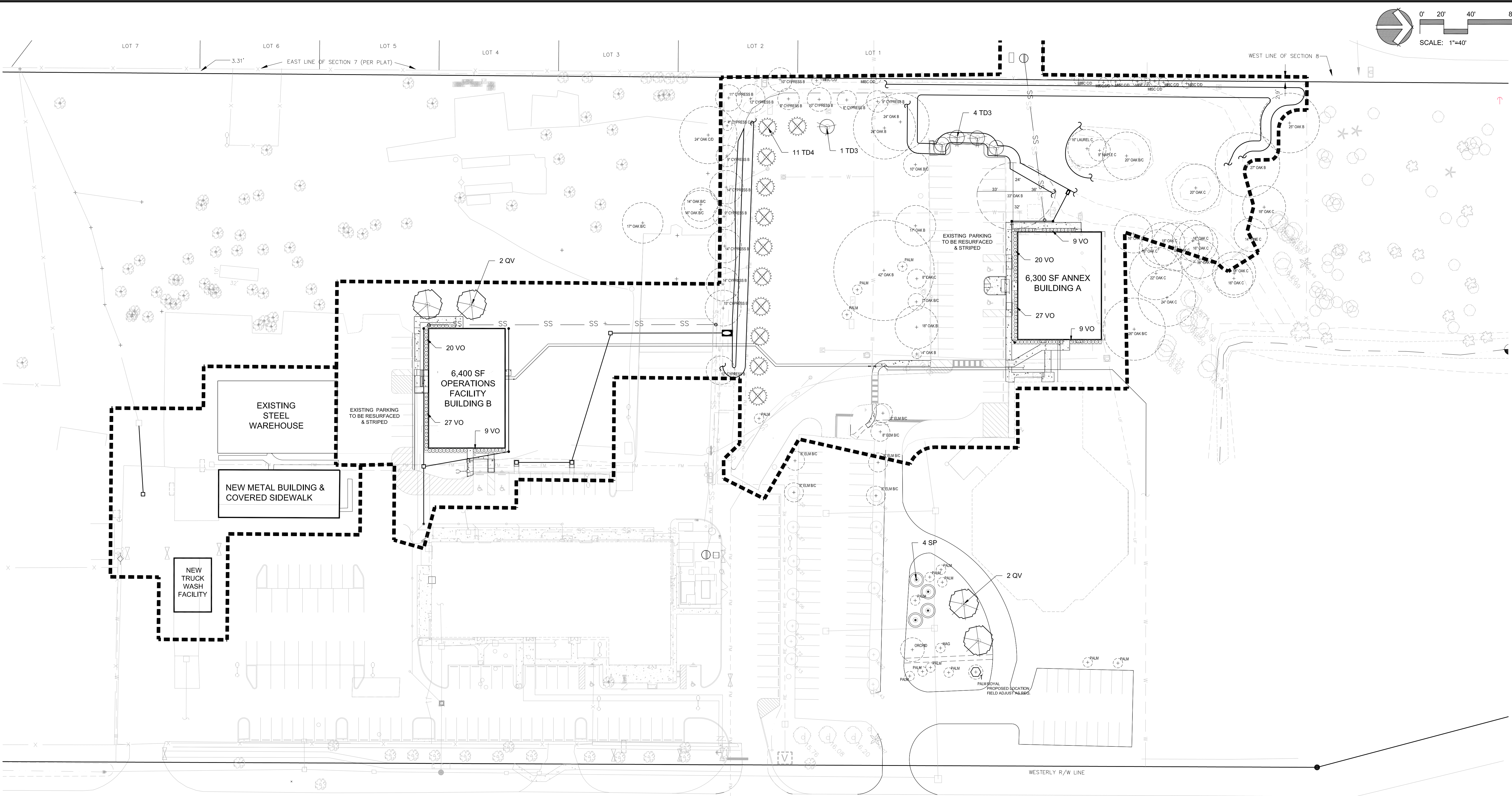
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LANDSCAPE ARCHITECTS | ENVIRONMENTAL CONSULTANTS
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EMAIL: ZNS@ZNSENGINEERING.COM | TELEPHONE 941 748 8880 | FAX 941 748 3316

KIMBER L. BERGHEIMER
LANDSCAPE ARCHITECT #001860
SUGAR CREEK

Fri, 10 Jan 2014 2:50pm W:\acsa\MANATEE COUNTY UTILITIES DISTRIBUTION CENTER (43274)\LS\MCLS-LS.dwg



FOUNDATION LANDSCAPING - LDC SECTION 715.3.3

- 20 SF OF PLANTED AREA PER 1,000 SF OF PROPOSED GROSS FLOOR AREA
- LOCATED CONTIGUOUS TO THE BUILDING

ANNEX BUILDING - 6,300.0 SF	
REQUIRED 6300.0/1000 * 20 = 126.0	PROVIDED: 126.0
OPERATIONS FACILITY - 6,400.0 SF	
REQUIRED 6400.0/1000 * 20 = 128.0	PROVIDED: 128.0
METAL BUILDING - 9239.1 SF	
REQUIRED 9239.1/1000 * 20 = 184.782	PROVIDED: 184.8
TRUCK WASH - 8,472.4 SF	
REQUIRED 8472.4/1000 * 20 = 169.448	PROVIDED: 169.4
TOTAL FOUNDATION LANDSCAPING	
REQUIRED: 881.2 SF	PROVIDED: 881.2 SF

Preliminary Not for Construction

PLANT SCHEDULE

TREES	CODE	QTY	BOTANICAL NAME / COMMON NAME	CONT	CAL	SIZE	SPD.
	QV	4	Quercus virginiana / Southern Live Oak	45 Gal. Min.	3" Cal.	12' - 14' Ht.	5'
	TD3	5	Taxodium distichum / Bald Cypress	45 Gal. Min.	3" Cal.	12' - 14' HT.	4'
	TD4	11	Taxodium distichum / Bald Cypress	95 Gal. Min.	4" Cal.	14' - 16' Ht.	5'
PALM TREES	CODE	QTY	BOTANICAL NAME / COMMON NAME	CONT	CAL	SIZE	SPD.
	SP	4	Sabal palmetto / Cabbage Palmetto Clean Trunk - no boots, large scars or holes	C.T. As Noted, B&B			
SHRUBS	CODE	QTY	BOTANICAL NAME / COMMON NAME	CONT	SIZE	SPRD.	SPACE
	VO	121	Viburnum obovatum / Walter's Viburnum	3 Gal.	24" HT. Min	18" Spr.	3.0' O.C.
GROUND COVERS	CODE	QTY	BOTANICAL NAME / COMMON NAME	CONT	SPACING		
	MULCH	1,915 sf	Mulch - Organic to Match Existing Composted & Clean, Min. 3" Depth	Mulch			

DESIGNED: KEB
DRAWN: KEB
DATE: 11.2013
JOB NO.: 00-43724
SCALE: 1"=40'
SHEET: 15/22

FINAL SITE PLAN - PLANTING PLAN
FOR
MANATEE COUNTY UTILITIES DISTRIBUTION CENTER
LOCATED IN
SECTION 8, TOWNSHIP 35 SOUTH, RANGE 17 EAST
MANATEE COUNTY, FLORIDA

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2014.01.08 KLB

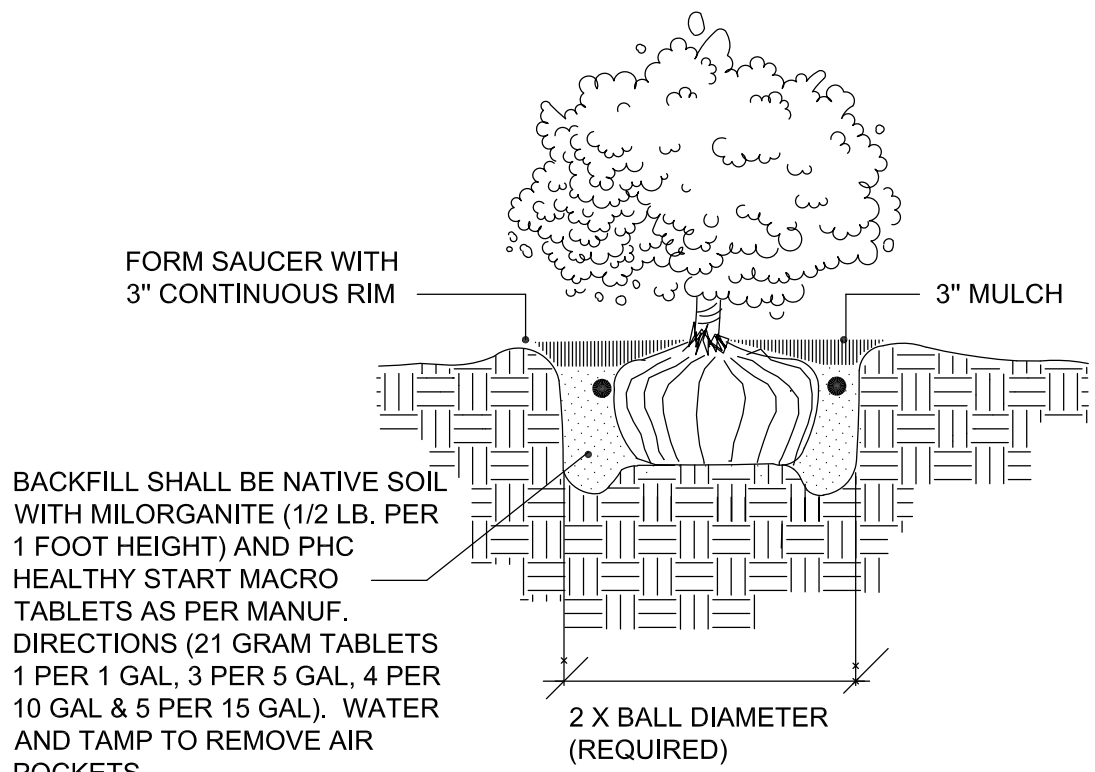
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KIMBER L. BERGTER
LANDSCAPE ARCHITECT #001860
SIGNATURE

Fri, 10 Jan 2014 — 2:51pm W:\accd\MANATEE COUNTY UTILITIES DISTRIBUTION CENTER (43274)\LS\MCLS-LS.dwg

PLANTING GENERAL NOTES

- LANDSCAPE NOTES ARE ALL INCLUSIVE. ALL QUESTIONS CONCERNING THE LANDSCAPE PLAN, DETAILS, AND SPECIFICATIONS SHALL BE DIRECTED TO THE LANDSCAPE ARCHITECT (941) 748-8080.
- REVIEW THE GENERAL NOTES, PLANT MATERIAL LIST, PLANS, DETAILS, AND WRITTEN SPECIFICATIONS (IF PROVIDED). THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTING THE LANDSCAPE PLAN AS DRAWN AND DIRECTED BY THE NOTES AND SPECIFICATIONS. CONTACT THE LANDSCAPE ARCHITECT WHEN SIGNIFICANT FIELD CHANGES REQUIRE PLAN REVISIONS.
- NO SUBSTITUTIONS SHALL BE MADE WITHOUT THE WRITTEN CONSENT OF THE OWNER OR LANDSCAPE ARCHITECT.
- PLANT COUNT TOTALS IN THE PLANT MATERIALS LIST ARE FOR THE CONVENIENCE OF THE LANDSCAPE CONTRACTOR. IN THE EVENT OF VARIATION BETWEEN QUANTITIES SHOWN ON THE PLANT LIST AND THE PLANS, THE PLANS SHALL CONTROL. IMPROVISATIONS MADE BY THE LANDSCAPE CONTRACTOR SHALL BE NO CAUSE FOR ADDITIONAL COSTS TO THE OWNER.
- SOD, MULCH, AND TOPSOIL QUANTITIES SHALL BE THE RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR. ANY QUANTITIES NOTED ON THE PLANS ARE FOR REFERENCE ONLY. SODDING OF SWALES SHALL BE THE RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR; HOWEVER, SOD FOR RETENTION AREAS (LAKE BANKS AND DRY RETENTION PONDS) SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.
- PRIOR TO SUBMITTING THE BID, THE LANDSCAPE CONTRACTOR SHALL VISIT THE SITE TO BECOME FAMILIAR WITH EXISTING CONDITIONS. SEE ENGINEERING (CIVIL) PLANS FOR ADDITIONAL SITE INFORMATION.
- ALL PLANTS FURNISHED BY THE LANDSCAPE CONTRACTOR SHALL BE FLORIDA NO. 1 QUALITY OR BETTER IN ACCORDANCE WITH GRADES AND STANDARDS FOR NURSERY PLANTS, STATE OF FLORIDA 2ND EDITION (FEB. 1998 & UPDATED MAY 2005) & AS AMENDED. THE OWNER AND/OR LANDSCAPE ARCHITECT SHALL DETERMINE THE ACCEPTABILITY OF ALL PLANT MATERIAL SUPPLIED BY THE LANDSCAPE CONTRACTOR. SPECIMEN MATERIAL SHALL BE APPROVED BEFORE INSTALLATION.
- ALL B&B OR "FIELD GROWN" MATERIAL (EXCEPT PALMS) SHALL BE OBTAINED FROM "ROOTS PLUS" CERTIFIED NURSERIES.
- ALL PLANT MATERIAL THAT HAS BEEN FIELD TAGGED BY THE LANDSCAPE ARCHITECT SHALL REMAIN TAGGED UNTIL FINAL ACCEPTANCE OF THE PROJECT. ALL MATERIAL NOT TAGGED BY LANDSCAPE ARCHITECT IS SUBJECT TO REJECTION. REJECTED PLANT MATERIAL SHALL BE REPLACED AT CONTRACTORS EXPENSE UNTIL ACCEPTABLE MATERIAL IS PROVIDED.
- IT SHALL BE THE LANDSCAPE CONTRACTORS FINANCIAL RESPONSIBILITY TO PREVENT PLANTS AND TREES FROM FALLING OR BEING BLOWN OVER; AND TO REPLACE ALL PLANTS WHICH ARE DAMAGED AT NO ADDITIONAL COST TO THE OVER FOR SUSTAINED WINDS OF LESS THAN 65 MPH.
- MAINTENANCE SHALL BEGIN AFTER EACH PLANT HAS BEEN INSTALLED AND CONTINUE UNTIL FINAL ACCEPTANCE BY THE LANDSCAPE ARCHITECT. MAINTENANCE SHALL INCLUDE: PRUNING, MULCHING, WEEDING, REPLACEMENT OF STICKS OR DEAD PLANTS, WATERING (INCLUDING THE COST OF EQUIPMENT SUCH AS A WATER TRUCK), AND ANY OTHER CARE WHICH IS NECESSARY FOR PROPER GROWTH OF PLANT MATERIAL.
- ALL PLANT MATERIAL SHALL BE FULLY GUARANTEED FOR A PERIOD OF ONE (1) YEAR FOLLOWING FINAL ACCEPTANCE BY THE OWNER. RELOCATED MATERIALS AND OWNER SUPPLIED MATERIALS ARE EXEMPT. DURING THE WARRANTY PERIOD THE LANDSCAPE CONTRACTOR WILL NOT BE HELD RESPONSIBLE FOR THEFT, VANDALISM, OR UNUSUAL ACTS OF GOD
- ALL TRIMMING OF EXISTING TREES SHALL BE CONDUCTED OR OVERSEEN BY A CERTIFIED ARBORIST.
- TOPSOIL MATERIAL, WHEN CALLED FOR ON THE PLANT LIST, SHALL BE FREE OF STICKS, STONES AND DEBRIS LARGER THAN 1" IN DIAMETER, AS WELL AS, ANY OTHER MATERIAL THAT MAY BE TOXIC OR OTHERWISE HARMFUL TO PLANT GROWTH. TOPSOIL SHALL BE FERTILE, AND HAVE A PH LEVEL BETWEEN 6.5 AND 7.5.
- ALL BACKFILL SOIL MIXTURES SHALL CONTAIN BEST ON-SITE TOPSOIL, 20% PEAT, AND AMENDMENTS AS PER NOTES AND DETAILS. PH LEVELS SHALL BE BETWEEN 6.5 AND 7.5. IT SHALL BE THE LANDSCAPE CONTRACTOR'S RESPONSIBILITY TO ACHIEVE THE PROPER PH LEVEL. MIX ORGANIC SOIL AMENDMENTS THOROUGHLY WITH THE NATIVE SOIL BEFORE BACKFILLING PLANTS.
- STAKE ALL TREES. SEE TREE PLANTING DETAIL.
- PROVIDE ARBORGARD+ FLEXIBLE BARK PROTECTORS (MODEL A69-4) AROUND BASE OF TRUNK FOR ALL SINGLE TRUNK TREES FREESTANDING IN SODDED AREAS. THEY ARE AVAILABLE AT ARBORIST SUPPLY HOUSE, INC., (FT. LAUDERDALE, FL: 1-800-749-9528).
- ALL TREES SHALL BE PLANTED WITH MYCOR TREE SAVER (3oz PER 1" CAL.) AND PHC HEALTHY START MACRO TABLETS (21 GRAM - 4 PER 1" CAL.) - SEE MANUFACTURERS SPECIFICATIONS FOR INSTALLATION METHOD (PLANT HEALTH CARE, INC. 941-751-9455, JOHN DEERE LANDSCAPES 941-721-8882, SOUTHEAST PARTNERS 239-267-0156, PROFESSIONAL SUPPLY (561) 289-4511 AND UNIVERSAL SUPPLY 954-979-060) - OR APPROVED EQUAL.
- ALL PALMS SHALL BE PLANTED WITH MYCOR PALM SAVER - SEE MANUFACTURERS SPECIFICATIONS FOR APPLICATION RATE AND INSTALLATION METHOD (PLANT HEALTH CARE, INC. 1-800-421-9051) - OR APPROVED EQUAL.
- ON NON-IRRIGATED SITES OR AREAS, TREES AND PALMS SHALL ALSO RECEIVE TERRA-SORB HYDRO GEL (PLANT HEALTH CARE INC.) AS PER MANUFACTURER SPECIFICATIONS - OR APPROVED EQUAL.
- ALL SHRUBS SHALL RECEIVE 1/2 LB. OF MILORGANITE PER FOOT OF HEIGHT; TREES SHALL RECEIVE 5 LBS. PER INCH OF CALIPER; AND GROUND COVERS SHALL BE FERTILIZED AS PER LABEL INSTRUCTIONS - OR APPROVED EQUAL. IN ALL INSTANCES FERTILIZER SHALL BE MIXED IN EVENLY WITH BACKFILL MATERIAL
- ALL SHRUBS AND GROUND COVER SHALL ALSO RECEIVE PHC HEALTHY START MACRO TABLETS (21 GRAM - 1 PER 1 GAL., 3 PER 5 GAL., 4 PER 10 GAL., AND 5 PER 15 GAL.). INSTALL AS PER MANUFACTURERS DIRECTIONS.
- ONLY PRUNE TREES AND SHRUBS TO REMOVE DEAD OR DAMAGED FOLIAGE - OR TO COMPENSATE FOR ROOT LOSS CAUSED BY TRANSPLANTING. MAKE CERTAIN TO RETAIN THE PLANT MATERIAL'S NATURAL FORM WHEN PRUNING. NEVER CUT THE CENTRAL GROWTH LEADER OF A TREE, OR INSTALL ANY TREE THAT HAS HAD THE CENTRAL GROWTH LEADER CUT. ALL TREES SHALL BE TRIMMED FOR CLEAR TRUNK UNLESS OTHERWISE SPECIFIED.
- WHERE PLANTING AREAS ABUT PAVEMENT, FINISHED SOIL LEVEL SHALL BE THREE INCHES (3") BELOW TOP OF PAVEMENT.
- ALL PLANTING AREAS SHALL RECEIVE MULCH AT THE RATE OF 1 CUBIC YARD PER 110 SF. OF AREA (THIS EQUALS A 3" MULCH DEPTH) - UNLESS OTHERWISE NOTED. SEE PLANT MATERIALS LIST FOR SPECIFICATIONS. KEEP MULCH SIX INCHES (6") BACK FROM ALL TREE TRUNKS.
- SOD SHALL BE INSTALLED WITH TIGHT JOINTS, ROLLED AND FERTILIZED AT TIME OF INSTALLATION. ALL SOD SHALL BE FREE OF NUISANCE SPECIES, INVASIVE AND EXOTIC WEEDS OR THEIR SEED.
- THE LANDSCAPE CONTRACTOR SHALL CALL 811 OR WWW.CALL811.COM TO FIELD LOCATE EXISTING UTILITIES AND SECURE A PERMIT NUMBER PRIOR TO BEGINNING WORK. USE DUE CAUTION AROUND THE UTILITIES. THE LANDSCAPE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY DAMAGE DONE TO EXISTING UTILITIES.
- LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF ACTIVITIES WILL ALL OTHER CONTRACTORS ON THE JOB SITE.
- ALL LANDSCAPE MATERIALS INSTALLED WITHIN THE PUBLIC RIGHT-OF-WAY SHALL BE INSTALLED TO MEET STATE AND LOCAL CODES AND REGULATIONS.
- THE LANDSCAPE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT ALL EXISTING STRUCTURES AND VEGETATION ON SITE THAT IS TO REMAIN AND SHALL BE HELD RESPONSIBLE FOR ANY DAMAGE CAUSED BY HIS OPERATIONS.
- THE JOB SITE IS TO REMAIN ORGANIZED. EXCESS WASTE MATERIAL SHALL BE REMOVED DAILY FROM THE SITE AND DISPOSED OF IN A LEGAL MANNER.



NOTE: SEE GENERAL NOTES TO DETERMINE IF ADDITIONAL SOIL AMENDMENTS ARE REQUIRED.

SHRUB & GROUND COVER PLANTING DETAIL

NOT TO SCALE

PLANTING DIRECTIONS

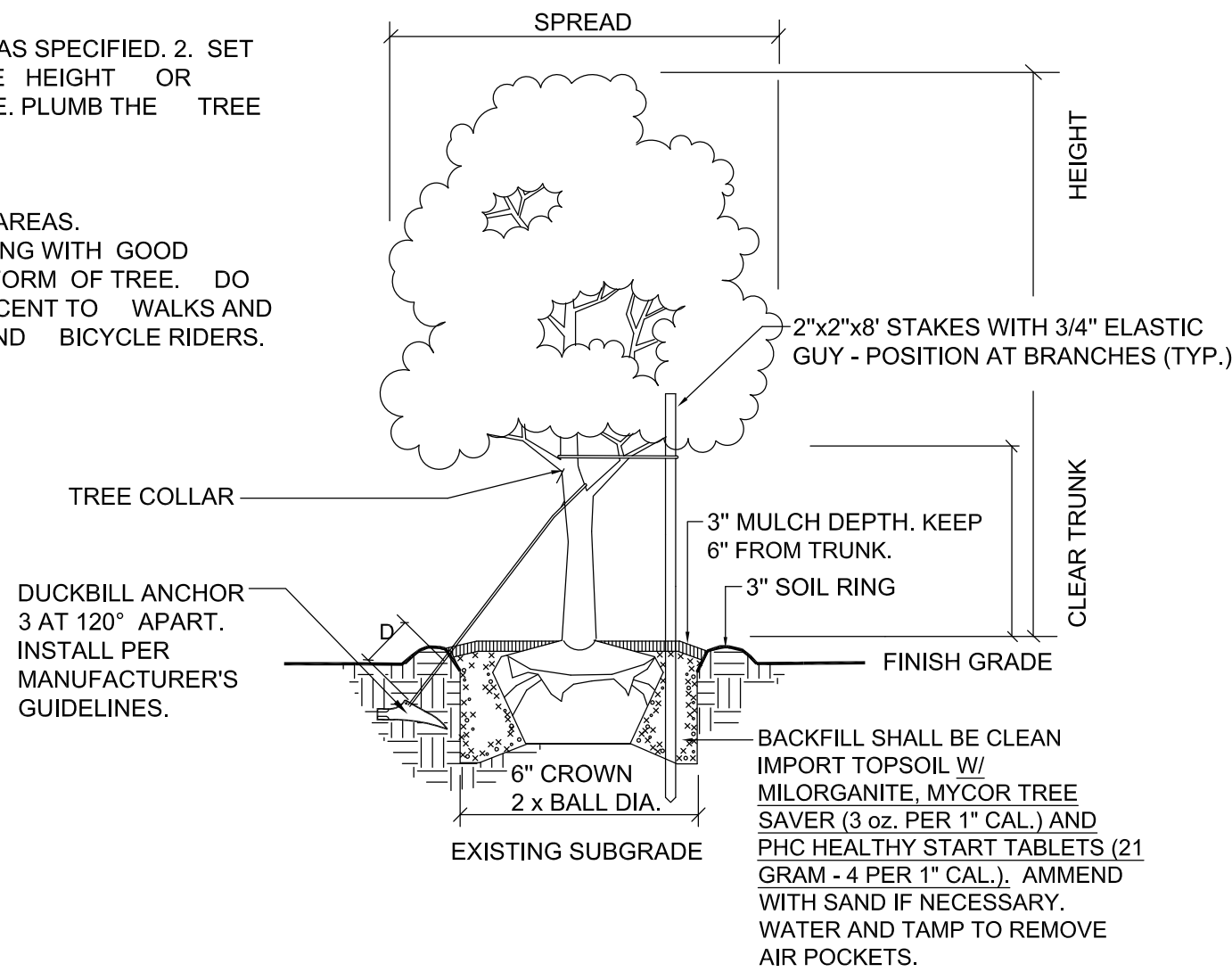
- EXCAVATE PLANTING HOLE AND SET TREE IN PIT AS SPECIFIED.
- SET TOP-MOST ROOT IN THE ROOT BALL AT THE SAME HEIGHT OR SLIGHTLY (2 INCHES) HIGHER THAN FINISH GRADE. PLUMB THE TREE SO THE TRUNK IS VERTICAL.
- BACKFILL AS DIRECTED BELOW.
- INSTALL 3" SOIL RING FOR HAND WATERING.
- PROVIDE 4" DIA. MULCH RING FOR TREES IN SOD AREAS.
- PRUNE DEAD AND DAMAGED BRANCHES IN KEEPING WITH GOOD HORTICULTURAL PRACTICES. RETAIN NATURAL FORM OF TREE. DO NOT CUT CENTRAL LEADER. PRUNE LIMBS ADJACENT TO WALKS AND CURBS TO PREVENT INJURY TO PEDESTRIANS AND BICYCLE RIDERS.

STAKING DIRECTIONS (TREES 0"-<2" CAL.)

- ALL TREES TO BE STAKED UNLESS OTHERWISE NOTED IN GENERAL OR SPECIFIC NOTES.
- STAKE TREES ACCORDING TO CALIPER SIZE OR (UNLESS OTHERWISE SPECIFIED) 0-1": 1 VERTICAL STAKE. TIE TRUNK TO STAKE WITH GREEN NURSERY TAPE. 1"-2": 2 VERTICAL STAKES. SECURE WITH GUY AS SHOWN.

DUCKBILL ANCHOR DIRECTIONS (TREES > 2" CAL.)

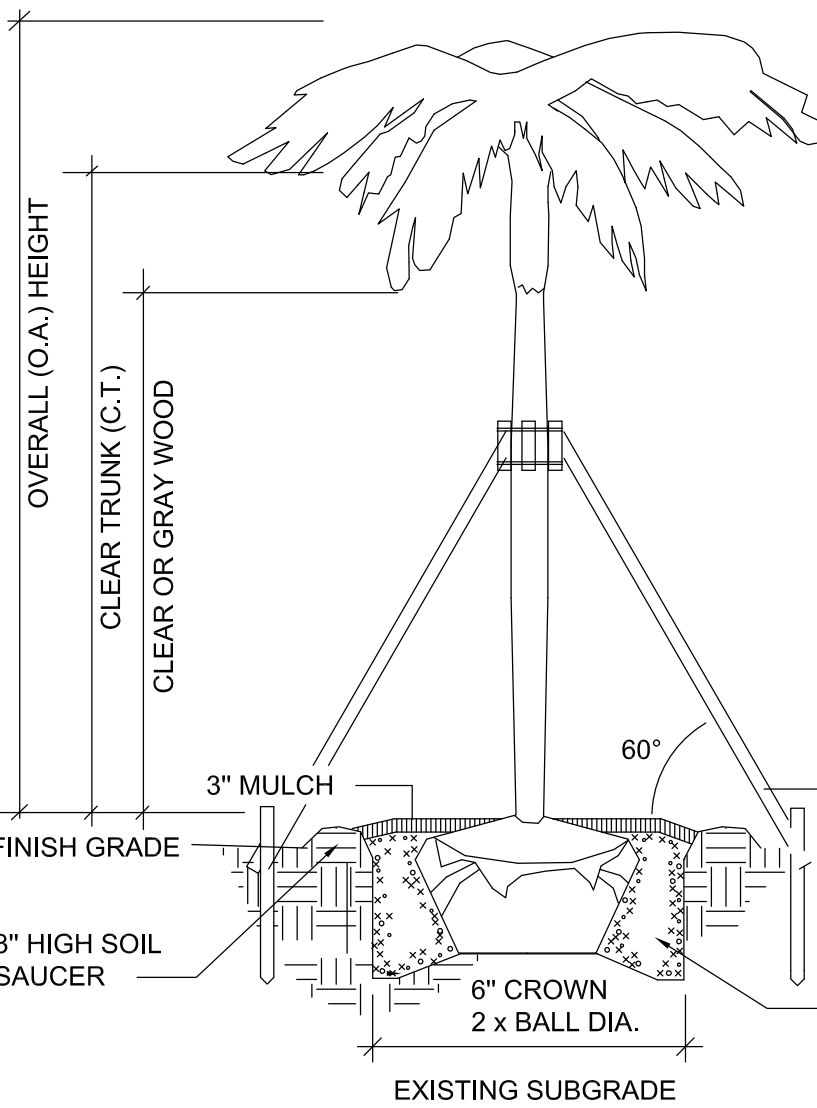
- 2"-3" CALIPER TREES: MODEL 40 DTS KIT D = 18-20"
- 3"-6" CALIPER TREES: MODEL 68 DTS KIT D = 2' - 2-1/2"
- 6"-10" CALIPER TREES: MODEL 88 DTS KIT D = 3' - 3-1/2"



NOTE: SEE NOTES TO DETERMINE IF ORGANIC OR OTHER UNLISTED SOIL AMENDMENTS ARE REQUIRED AND PLANT MATERIALS LIST FOR STAKING AND TREEWRAP REQUIREMENTS.

TREE PLANTING DETAIL

NOT TO SCALE

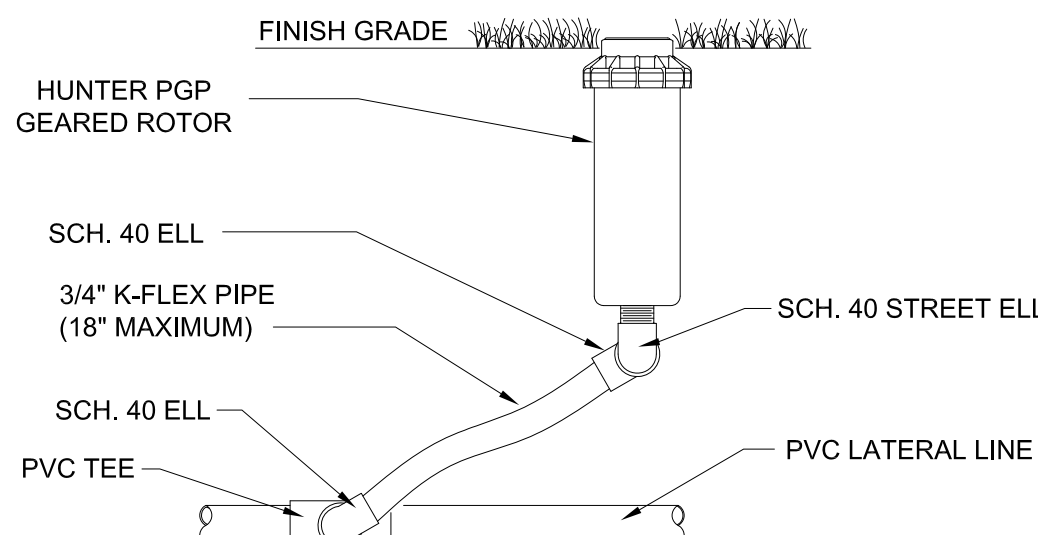


- IF BURLAP IS PRESENT ROLL TO 1/3 OF FABRIC INTO PIT.
- ROOTBALL SHALL BE AT SAME GRADE AS ITS ORIGINAL SETTING AND PLUMB.
- FRONDS SHALL BE TIED UP FOR PROTECTION OF BUDS. LARGE DATE PALMS AND ALL FAN PALMS SHALL REMAIN TIED FOR 1 MONTH MINIMUM. PALMS WITH DAMAGED BUDS WILL NOT BE ACCEPTED.
- TRUNK SHALL BE FREE OF SCARS, BURNS, HOLES, ETC.
- ROOTBALL SHALL HAVE 16" MINIMUM RADIUS FROM TRUNK.
- INSTALL 4" DIAMETER MULCH RING AROUND ALL PALMS IN SOD AREAS.

STAKING DIRECTIONS:
(3) 2"x4"x8" BRACES 120° APART NAILED TO (3) 2"x4"x12" SEATS WIRE-BANDED OVER 5 LAYERS OF BURLAP WRAP (1) 2"x4"x30" STAKE EACH.

PALM PLANTING DETAIL

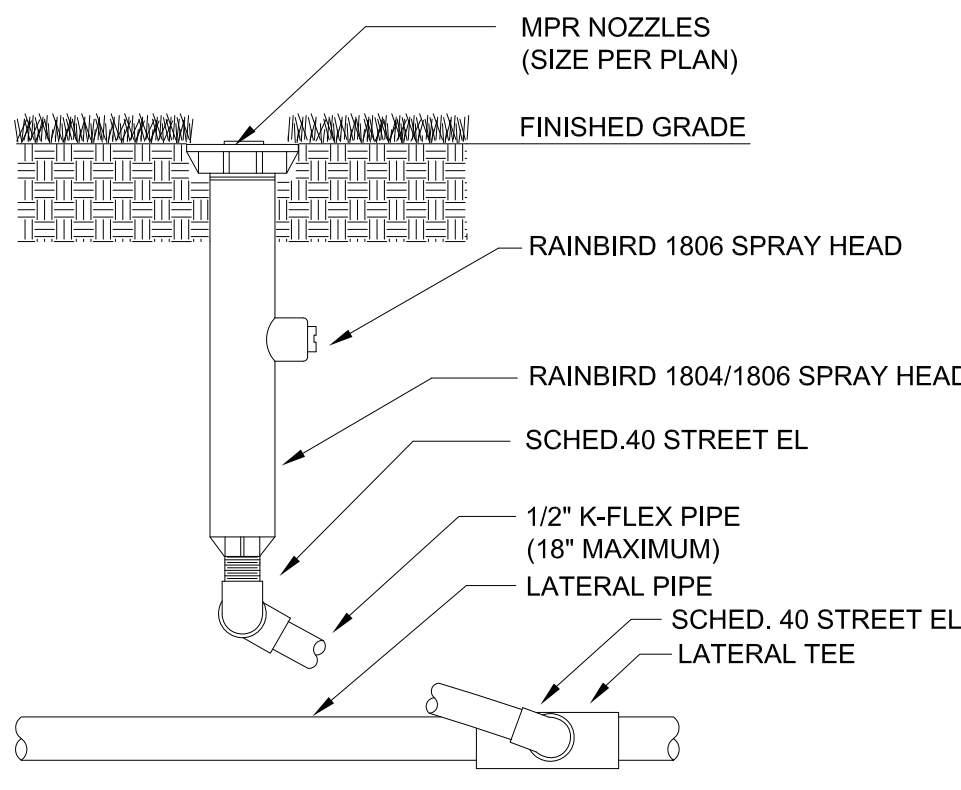
NOT TO SCALE



Hunter PGP-AJD ROTOR HEAD INSTALLATION DETAIL

NOT TO SCALE

NOTE: RAINBIRD 1806 HEADS TO BE INSTALLED UNLESS NOTED OTHERWISE. RAINBIRD 1804 HEADS TO BE INSTALLED ALONG HEDGE ROWS AND ALONG BUILDING FOUNDATIONS.

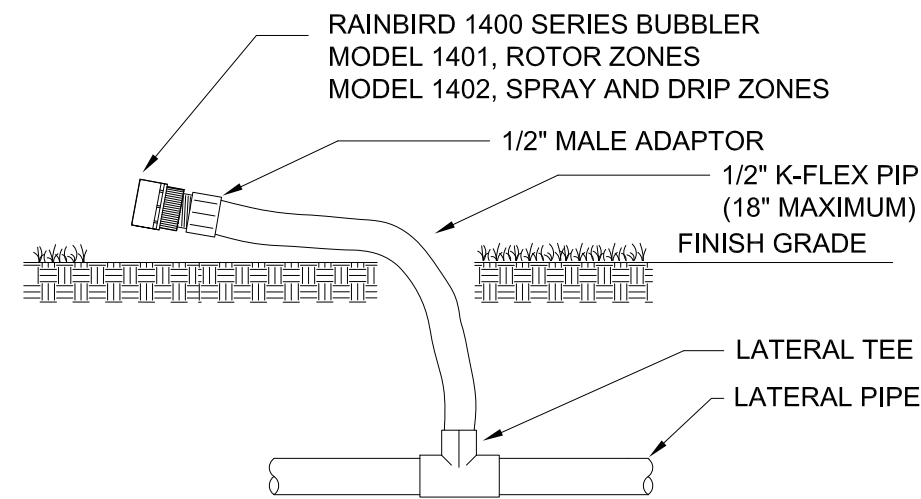


RAINBIRD 1804/1806 SPRAY HEAD INSTALLATION DETAIL

NOT TO SCALE

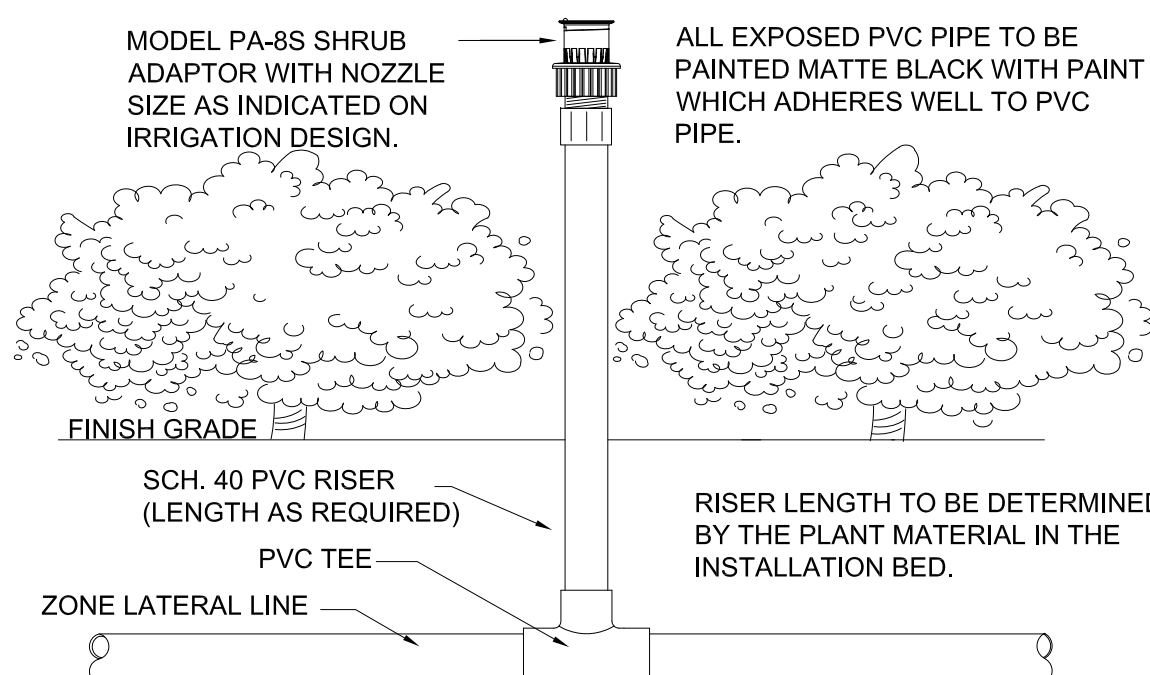
IRRIGATION NOTES

- REVIEW THE IRRIGATION NOTES, LEGEND, DETAILS, PLAN AND WRITTEN SPECIFICATIONS. THE IRRIGATION CONTRACTOR SHALL BE HELD RESPONSIBLE FOR IMPLEMENTING THE IRRIGATION PLAN AS DRAWN AND DIRECTED BY THE NOTES AND SPECIFICATIONS. CONTACT THE LANDSCAPE ARCHITECT WHEN SIGNIFICANT FIELD CHANGES REQUIRE PLAN MODIFICATION AND BEFORE MAKING ANY MATERIAL SUBSTITUTIONS.
- PRIOR TO SUBMITTING THE BID, THE IRRIGATION CONTRACTOR SHALL VISIT THE SITE TO BECOME FAMILIAR WITH EXISTING CONDITIONS. SEE ENGINEERING DRAWINGS FOR ADDITIONAL SITE INFORMATION.
- WHEN AN EXISTING IRRIGATION PLAN IS NOTED ON THE PLAN, THE IRRIGATION CONTRACTOR SHALL INSPECT IT BEFORE SUBMITTING A BID AND NOTE ANY MODIFICATIONS REQUIRED ON THE IRRIGATION PLAN.
- ALL QUESTIONS CONCERNING THE IRRIGATION PLAN OR SPECIFICATIONS SHALL BE DIRECTED TO THE LANDSCAPE ARCHITECT (941) 748-8080.
- IRRIGATION CONTRACTOR SHALL PROVIDE ALL REQUIRED PERMITS.
- ALL IRRIGATION PRODUCTS SHALL BE AS SPECIFIED IN THE IRRIGATION SCHEDULE FOR BID PURPOSES. ANY SUBSTITUTIONS WILL BE CONSIDERED AND NEED TO BE APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
- BEFORE FINAL ACCEPTANCE OF THE COMPLETED IRRIGATION INSTALLATION, THE IRRIGATION CONTRACTOR SHALL PREPARE AND SUBMIT TO THE OWNER A COMPLETE SET OF AS-BUILT IRRIGATION DRAWINGS. IRRIGATION CONTRACTOR SHALL PROVIDE COPIES OF MANUALS AND WARRANTY INFORMATION FOR ALL MATERIALS PROVIDED.
- INSTALLATION OF THE IRRIGATION SYSTEM IS TO BE COORDINATED WITH OTHER CONTRACTORS IN SUCH A MANNER AS TO ALLOW FOR SPEEDY AND ORDERLY COMPLETION OF ALL WORK.
- THE IRRIGATION PLAN IS DESIGNED AS HEAD-TO-HEAD SPACING TO PROVIDE 100% COVERAGE. ANY FIELD CHANGES OR ADDITIONS SHALL BE MADE IN ACCORDANCE WITH THESE STANDARDS. ADJUST ALL RADII FOR 100% COVERAGE WITH MINIMUM OVERSPRAY ONTO PAVED AREAS.
- IRRIGATION MAIN AND LATERAL LINES ARE SHOWN IN SCHEMATIC FORM ONLY. REFER TO THE LANDSCAPE PLAN AND COORDINATE HEAD PLACEMENT ACCORDINGLY. LOCATE VALVES AND OTHER IRRIGATION EQUIPMENT IN PLANTING AREAS TO PROVIDE BEST ACCESSIBILITY AND CONCEALMENT. ALL MAIN AND LATERAL IRRIGATION LINES SHALL BE INSTALLED WITH A MINIMUM COVER OF TWELVE (12) INCHES.
- A MOISTURE SENSING DEVICE SHALL BE INSTALLED AS PER MANUFACTURER'S RECOMMENDATIONS. SEE MATERIALS SCHEDULE. INSTALL OUTSIDE OF THE SPRAY PATTERN OF ALL HEADS AND IN AN AREA TO RECEIVE UNOBSTRUCTED RAINFALL.
- CONTRACTOR SHALL VERIFY CONTROLLER AND RAIN SENSOR LOCATIONS WITH OWNER PRIOR TO INSTALLATION.
- ALL VALVES AND ELECTRIC CONTROL WIRE SPLICES SHALL BE LOCATED IN 'ARMOR ACCESS' VALVE BOXES (OR APPROVED EQUAL) AS FOLLOWS: ZONE VALVES - TEN (10) INCH CIRCULAR MODEL WITH COVER; GATE VALVES AND SPLICES - FIVE AND ONE-QUARTER (5-1/4) INCH POLYIRON MODEL WITH COVER.
- ALL IRRIGATION LINES UNDER PAVEMENT SHALL BE SLEEVED AS INDICATED.
- ELECTRIC CONTROL WIRING SHALL BE MANUFACTURED FOR DIRECT BURIAL. ALL WIRE SPLICES SHALL USE 3M DBY/DBR CONNECTORS (OR APPROVED EQUIVALENT).
- ALL SPRAY HEADS AND ROTORS SHALL BE MOUNTED ON AN EIGHTEEN (18) INCH MINIMUM LENGTH OF K-FLEX HOSE (OR APPROVED EQUAL).
- LOCATE ALL SPRAY HEADS SIX INCHES (6") INSIDE BACK FACE OF RAISED CURBS WHEN SHOWN IN THIS LOCATION ON PLAN.
- ALL SPRAY HEADS IN SOD AREAS ADJACENT TO WALKS, DRIVEWAYS, AND PARKING AREAS SHALL BE INSTALLED WITH CONCRETE DONUTS.
- ALL SHRUB HEADS SHALL BE EXTENDED THREE (3) INCHES ABOVE THE AVERAGE HEIGHT OF INSTALLED PLANT MATERIAL ON BLACK PVC RISERS (OR PVC RISERS PAINTED BLACK).
- FIELD-ADJUST PIPE LOCATIONS AROUND EXISTING TREES TO MINIMIZE ROOT DAMAGE. DO NOT CUT ROOTS LARGER THEN TWO (2) INCHES IN DIAMETER. CONSULT WITH LANDSCAPE ARCHITECT AS NEEDED.
- AFTER ALL IRRIGATION AND PLANT MATERIALS HAVE BEEN INSTALLED AND BEFORE AN INSPECTION OF THE JOB IS CALLED, CHECK ALL HEADS FOR GOOD WORKING ORDER. ADJUST HEADS TO BE PLUMB AND FLUSH WITH GRADE. CLEAN OUT CLOGGED NOZZLES; AND ADJUST RADII TO PROVIDE MAXIMUM COVERAGE WITH MINIMUM OVERTHROW.



RAINBIRD 1400 SERIES BUBBLER INSTALLATION DETAIL

NO SCALE



RAINBIRD PA-8S SHRUB ADAPTOR INSTALLATION DETAIL

NO SCALE

FINAL SITE PLAN - NOTES & DETAILS FOR

MANATEE COUNTY UTILITIES DISTRIBUTION CENTER

LOCATED IN SECTION 8, TOWNSHIP 33 SOUTH, RANGE 17 EAST MANATEE COUNTY, FLORIDA

DESIGNED: KEB
DRAWN: KEB
DATE: 11.2013
JOB NO.: 00-43724
SCALE: 1"=40'
SHEET: 5-03

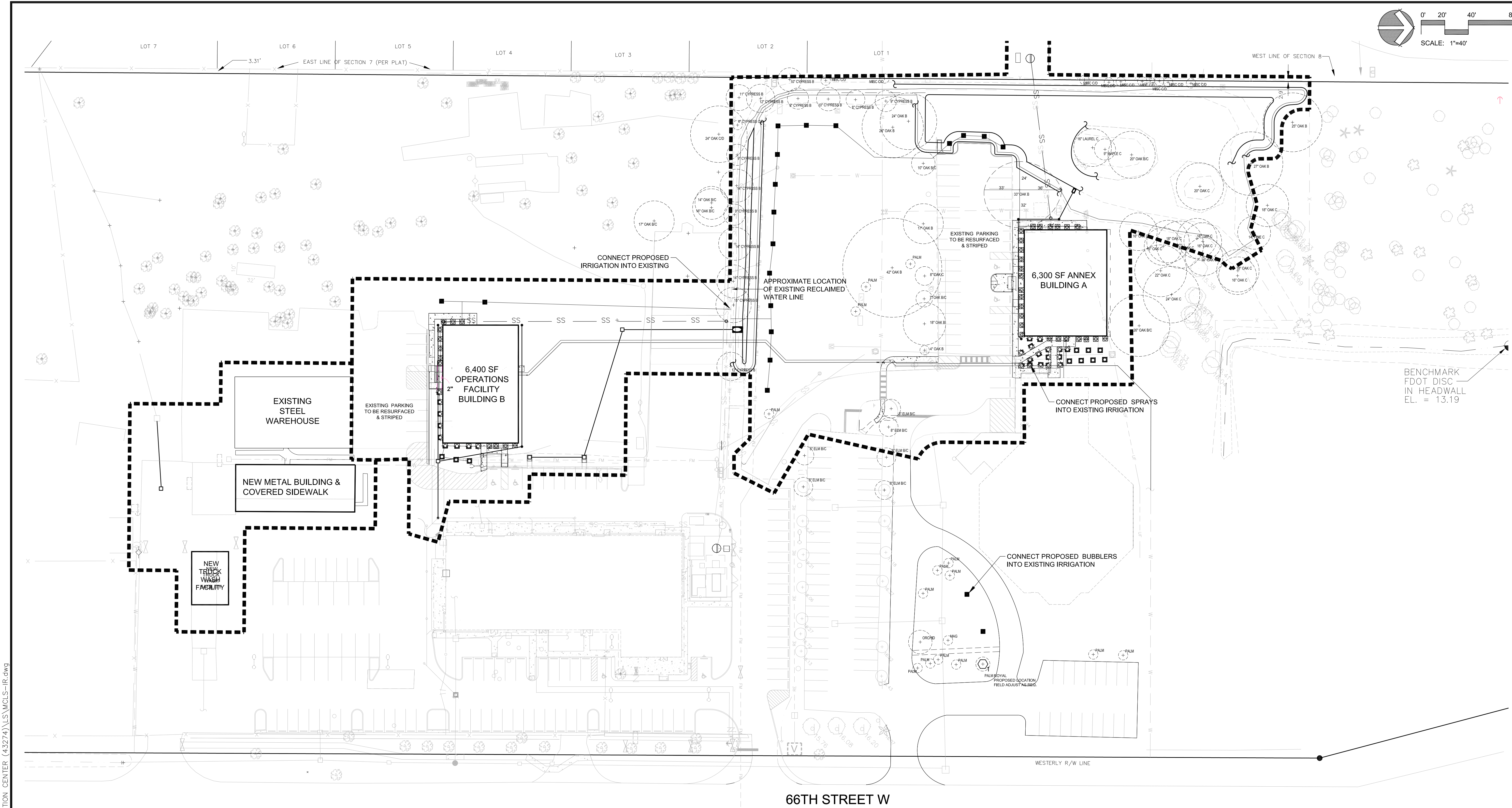
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2014.01.08 KLB

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MANATEE COUNTY UTILITIES DISTRIBUTION CENTER
KIMBER L. BERGTER
LANDSCAPE ARCHITECT
#001880
SIGNATURE

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LANDSCAPE ARCHITECTS | ENVIRONMENTAL CONSULTANTS
POST OFFICE BOX 9448 BRADSHAW, FL 34208 | 201 9H AVENUE DRIVE EAST BRADSHAW, FL 34208
EMAIL: ZNS@ZNSENGINEERING.COM | TELEPHONE 941 748-8080 | FAX 941 748-3316

Fri, 10 Jan 2014 2:52pm W:\acss\MANATEE COUNTY UTILITIES DISTRIBUTION CENTER (43274)\S\MCL5-IR.dwg



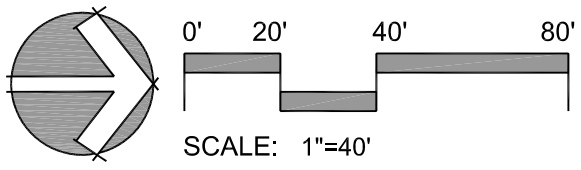
EXISTING IRRIGATION NOTES:

- ON 1/3/14 AN ON-SITE MEETING WAS HELD WITH THE UTILITIES DISTRIBUTION CENTER MAINTENANCE STAFF.
- THEY INFORMED ZNS THAT THE ENTIRE SITE WAS CONNECTED TO A RECLAIMED WATER MASTER VALVE (LOCATED BETWEEN THE 2 NORTHER-MOST ENTRY DRIVES AT 66TH STREET W).
- THIS VALVE IS ACTIVATED 2x A WEEK FOR APPROXIMATELY 10-15 MINUTES. AT THAT TIME, THE ENTIRE SITE IS IRRIGATED.
- THE CLOSE PROXIMITY TO THE WATER RECLAMATION FACILITY PROVIDES HIGH PRESSURE - REDUCED PRESSURE IRRIGATION (DRIP) WAS NOT RECOMMENDED.
- THERE IS AN EXISTING IRRIGATION MAINLINE (1.5" OR 2") LOCATED APPROXIMATELY AT THE EAST/WEST FENCE LINE JUST SOUTH OF THE ROW OF CYPRESS TREES (NEAR THE CENTER OF THE SITE) FOR PROPOSED IRRIGATION TO CONNECT.
- CONTRACTOR SHALL MEET WITH MAINTENANCE STAFF PRIOR TO STARTING WORK.

IRRIGATION_SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	PSI
	Rain Bird RD-04-P30-F-NP 8 Series MPR Turf Spray, 4.0" Pop-Up, with 30 psi in-stem pressure regulation, Flow-Shield Technology, and Non-Potable Cover (purple cap). 1/2" NPT female threaded inlet.	37	30
	Rain Bird RD-04-P30-F-NP 10 Series MPR Turf Spray, 4.0" Pop-Up, with 30 psi in-stem pressure regulation, Flow-Shield Technology, and Non-Potable Cover (purple cap). 1/2" NPT female threaded inlet.	35	30
	Rain Bird 1800-1400 Flood Fixed flow rate (0.25-2.0GPM), full circle bubbler, installed on 1/2" flex pipe (min 5' length).	20	40
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	
	Irrigation Lateral Line: Blu-Lock and PVC Class 200	943.5 l.f.	
	Pipe Sleeve: PVC Schedule 40 Typical pipe sleeve for irrigation pipe. Pipe sleeve size shall be 2x interior pipe size. Extend sleeves 18 inches beyond edges of paving or construction.	21.3 l.f.	

Preliminary Not for Construction



DESIGNED: KEB
DRAWN: KEB
DATE: 11.2013
JOB NO.: 00-43724
SCALE: 1"=40'
SHEET: 15/14

FINAL SITE PLAN - IRRIGATION PLAN
FOR
MANATEE COUNTY UTILITIES DISTRIBUTION CENTER
SECTION 8, TOWNSHIP 35 SOUTH, RANGE 17 EAST
MANATEE COUNTY, FLORIDA

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KIMBER L. BERGTER
LANDSCAPE ARCHITECT #001860
SIGNATURE

ELECTRICAL SYMBOLS AND ABBREVIATIONS

NOTE:

THESE ARE STANDARD SYMBOLS AND MAY NOT ALL APPEAR ON THE PROJECT DRAWINGS; HOWEVER WHEREVER THE SYMBOL APPEARS ON THE PROJECT DRAWINGS, THE ITEM SHALL BE PROVIDED AND INSTALLED.

EQUIPMENT

SYMBOL	DESCRIPTION
	DISTRIBUTION PANELBOARD AND CABINET - RECESSED MOUNT
	DISTRIBUTION PANELBOARD AND CABINET - SURFACE MOUNT
	BRANCH PANELBOARD AND CABINET - RECESSED MOUNT
	BRANCH PANELBOARD AND CABINET - SURFACE MOUNT
	LOAD CENTER - SURFACE MOUNT
	LOAD CENTER - RECESSED MOUNT
	DENOTES PANEL/PANELBOARD DESIGNATION
	MOTOR "X" INDICATES HORSEPOWER "Y" INDICATES PHASE
	CAPACITOR "X" INDICATES KVAR
	DISCONNECT SWITCH - FUSED "X"= RATING, "Y" = FUSE SIZE
	DISCONNECT SWITCH - NON-FUSED
	DISCONNECT SWITCH - CIRCUIT BREAKER
	MOTOR STARTER
	COMBINATION MOTOR STARTER
	DRY TYPE TRANSFORMER - "XX" INDICATES KVA
	METER SOCKET
	CURRENT TRANSFORMER METER SOCKET
	TRANSIENT VOLTAGE SURGE SUPPRESSOR
	GENERATOR
	TRANSFER SWITCH ATS = AUTOMATIC TRANSFER SWITCH MTS = MANUAL TRANSFER SWITCH N = NORMAL POWER E = EMERGENCY POWER L = LOAD
	WIREWAY
	BUSWAY
	GROUND CONNECTION
	HORSEPOWER RATED MANUAL MOTOR STARTER TOGGLE SWITCH WITH THERMAL OVERLOAD PROTECTION "X" INDICATES AS FOLLOWS NONE - SINGLE POLE 2 - 2 POLE 3 - 3 POLE
	HORSEPOWER RATED MANUAL MOTOR STARTER TOGGLE SWITCH WITH THERMAL OVERLOAD PROTECTION WITH PILOT LIGHT "X" INDICATES AS FOLLOWS "Y" INDICATES AS FOLLOWS NONE - SINGLE POLE Y - YELLOW LENS 2 - 2 POLE G - GREEN LENS 3 - 3 POLE R - RED LENS W - WHITE LENS B - BLUE LENS A - AMBER
	LOW VOLTAGE DRAWOUT TYPE CIRCUIT BREAKER "X" INDICATES AS FOLLOWS A - AIR TYPE S - SF6 TYPE V - VACUUM TYPE
	MOLDED CASE CIRCUIT BREAKER
	FUSE
	DRAW OUT MOTOR STARTER ASSEMBLY

RACEWAY SYSTEM

SYMBOL	DESCRIPTION
	CONCEALED CONDUIT
	4" CONDUIT SLEEVE WITH BUSHINGS THRU WALL ABOVE CEILING
	LETTER DESIGNATION REFERS TO SYSTEM (SEE ABBREVIATIONS)
	QUANTITY OF CONDUCTORS OR CABLES IN CONDUIT "F50" DENOTES THE FEEDER SIZE "A-XX" DENOTES PANEL AND CIRCUIT #
	CONDUIT TURNED UP
	CONDUIT TURNED DOWN
	JUNCTION OR PULL BOX
	CABLE TRAY
	U/G CONDUIT TURNED UP
	U/G CONDUIT TURNED DOWN

LIGHTING

SYMBOL	DESCRIPTION
X-2-C	X = FIXTURE TYPE, 2 = CIRCUIT NUMBER, C = SWITCH LEG F - FLUORESCENT K - INCANDESCENT H - H.I.D.
	FLUORESCENT STRIP TYPE FIXTURE
	FLUORESCENT TYPE FIXTURE
	FLUORESCENT TYPE FIXTURE WITH EMERGENCY BATTERY BALLAST
	CEILING MOUNT LIGHT FIXTURE
	CEILING MOUNT RECESSED LIGHT FIXTURE (ROUND OR SQUARE, SEE SCHEDULE)
	INTERIOR WALL MOUNT FIXTURE
	EXTERIOR WALL MOUNT FIXTURE
	LIGHT POLE WITH ONE FIXTURE (FIXTURE LOCATION AND SPACING AS SHOWN)
	2 HEAD POLE LIGHT. LOCATION AND SPACING AS SHOWN.
	3 HEAD POLE LIGHT. LOCATION AND SPACING AS SHOWN.
	EXIT LIGHT -CEILING MOUNTED ARROWS DENOTE EGRESS PATH
	EXIT LIGHT - WALL MOUNTED ARROWS DENOTE EGRESS PATH
	EMERGENCY WALL MOUNT W/ BATTERY UNIT
	EXIT / EMERGENCY WALL MOUNT W/ BATTERY UNIT ARROWS DENOTE EGRESS PATH
	EMERGENCY WALL MOUNT REMOTE HEAD

DEVICES

SYMBOL	DESCRIPTION
	DUPLEX RECEPTACLE - NORMAL CIRCUIT "X" INDICATES AS FOLLOWS: NONE = 20 AMP, 125VAC GF = 20 AMP, 125VAC, GROUND FAULT INTERRUPTER TYPE HM = 20 AMP, 125VAC, HORIZONTAL MOUNT TYPE IG = 20 AMP, 125VAC, ISOLATED GROUND TYPE S = 20 AMP, 125VAC, TVSS PROTECTION TYPE WP = 20 AMP, 125VAC, WEATHERPROOF TYPE
	DOUBLE DUPLEX RECEPTACLE
	DUPLEX RECEPTACLE - ABOVE COUNTER. 44" AFF
	DOUBLE DUPLEX RECEPTACLE - ABOVE COUNTER. 44" AFF
	SINGLE RECEPTACLE - SEE DRAWINGS AND SPECIFICATIONS.
	SPECIAL RECEPTACLE - SEE DRAWINGS AND SPECIFICATIONS.
	SINGLE RECEPTACLE - FLOOR, SEE DRAWINGS AND SPECIFICATIONS.
	DUPLEX RECEPTACLE - FLOOR, SEE DRAWINGS AND SPECIFICATIONS.
	CLOCK RECEPTACLE - 120VAC
	TOGGLE SWITCH - SINGLE POLE
	TOGGLE SWITCH - DOUBLE POLE
	TOGGLE SWITCH - 3-WAY
	TOGGLE SWITCH - 4-WAY
	TOGGLE SWITCH - a- INDICATES TYPE T: TIMER, K: KEY OPERATED
	SWITCH - DIMMER
	SWITCH - FAN SPEED CONTROL
	WALL MOUNTED OCCUPANCY SENSOR
	CEILING MOUNTED OCCUPANCY SENSOR x = TYPE, SEE PLANS
	JUNCTION BOX
	HVAC THERMOSTAT
	HVAC HUMIDISTAT
	FURNITURE POWER POLE
	FURNITURE CABLE MANAGEMENT POLE.
	MUSHROOM HEAD RED PUSH BUTTON

DRAWING SYMBOLS

	DETAIL NUMBER
	DRAWING NUMBER WHERE DRAWN
	SECTION LETTER
	DRAWING NUMBER WHERE DRAWN

FIRE ALARM SYSTEM

SYMBOL	DESCRIPTION
	HORN / STROBE
	CEILING MOUNT
	WALL MOUNT
	HORN
	CEILING MOUNT
	WALL MOUNT
	SPEAKER / STROBE
	CEILING MOUNT
	WALL MOUNT
	STROBE
	CEILING MOUNT
	WALL MOUNT
	BELL
	CEILING MOUNT
	WALL MOUNT
	SMOKE DETECTOR
	HEAT DETECTOR
	PULL STATION
	ELEVATOR WARNING LIGHT
	FIREFIGHTER PHONE JACK
	TAMPER SWITCH
	FLOW SWITCH
	F.A.A.P. REMOTE ANNUNCIATOR
	FIRE ALARM CONTROL PANEL
	DOOR RELEASE DEVICE - FIRE ALARM ACTIVATED
	SPEAKER - FIRE ALARM
	AUTOMATIC DUCT DETECTOR ("X" DENOTES AS FOLLOWS): NONE = PHOTO ELECTRIC TYPE S= SUPPLY R= RETURN
	EQUIPMENT SHUT DOWN RELAY
	REMOTE DUCT DETECTOR INDICATOR LIGHT X= AIR HANDLER / ROOF TOP UNIT
	FIRE SUPPRESSION SYSTEM

INTERCOMMUNICATION SYSTEM

SYMBOL	DESCRIPTION
	INTERCOM SYSTEM ROUGH-IN - SINGLE GANG BACKBOX MOUNTED AT +46"

DOOR SECURITY SYSTEM

SYMBOL	DESCRIPTION
	DOOR CONTACT ROUGH-IN
	PROXIMITY CARD READER ROUGH-IN
	ELECTRO-MAGNETIC DOOR LOCK

COMMUNICATION SYSTEMS

SYMBOL	DESCRIPTION
	WALL MOUNTED VOICE OUTLET
	WALL MOUNTED DATA OUTLET
	WALL MOUNTED COMBINATION VOICE / DATA OUTLET
	FLOOR MOUNTED VOICE OUTLET.
	FLOOR MOUNTED DATA OUTLET.
	FLOOR MOUNTED COMBINATION VOICE / DATA OUTLET.
	TELEPHONE CABINET
	COMMUNICATIONS CABINET

PAGING / AUDIO SYSTEM

SYMBOL	DESCRIPTION
	LOUDSPEAKER - CEILING MOUNTED CONTROLLED BY VOLUME CONTROL "1"
	VOLUME CONTROL - CONTROLS SPEAKERS "1"
	PAGING ROUGH-IN
	AUDIO JACK ROUGH-IN
	MICROPHONE ROUGH-IN
	PROJECTOR ROUGH-IN

TELEVISION SYSTEM

SYMBOL	DESCRIPTION
	TELEVISION ROUGH-IN

CCTV SYSTEM

SYMBOL	DESCRIPTION
	CCTV ROUGH-IN
	CAMERA ROUGH-IN

1 REFER TO LIKE NUMBER NOTES.

1 REFER TO LIKE NUMBER NOTES.

GENERAL NOTES (APPLY TO ALL DRAWINGS):

- THE WORK INDICATED ON THESE DRAWINGS IS DIAGRAMMATIC AND IS INTENDED TO CONVEY THE SCOPE OF WORK AND INDICATE THE GENERAL ARRANGEMENT OF EQUIPMENT AND DEVICES FOR A COMPLETE SYSTEM IN EVERY RESPECT AND DETAIL, TESTED AND LEFT READY IN PERFECT OPERATING CONDITION FOR THE OWNER'S USE. MATERIALS AND EQUIPMENT SHALL BE LISTED BY UNDERWRITERS' LABORATORIES AND SHALL BE INSTALLED IN ACCORDANCE WITH SUCH LISTINGS. INSTALLATIONS SHALL BE MADE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. WORK SHALL MEET THE REQUIREMENTS OF THE SPECIFICATIONS AND CONFORM TO THE NEC (NFPA 70 & 72) AND ALL APPLICABLE CODES, AND BE COMPLETED BY A QUALIFIED, EXPERIENCED, LICENSED ELECTRICAL CONTRACTOR.
- THE ENGINEER HAS MADE AN EFFORT TO COORDINATE WORK WITH OTHER TRADES AND IDENTIFY ANY AND ALL CONFLICTS. THE CONTRACTOR IS RESPONSIBLE TO COORDINATE FIELD WORK BETWEEN TRADES AND TO IDENTIFY FIELD CONDITIONS PRIOR TO INSTALLATION AND REPORT ANY CONFLICTS TO THE ENGINEER.
- FOR BIDDING PURPOSES, WHEN A CONFLICT OCCURS BETWEEN THE SPECIFICATIONS AND DRAWINGS, THE ITEMS OF GREATER QUANTITY AND/OR COST SHALL BE PROVIDED. ANY SUCH CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR RESOLUTION.
- CONTRACTOR SHALL VERIFY THE LOCATION AND ELECTRICAL REQUIREMENTS OF ALL EQUIPMENT FURNISHED BY OTHER TRADES PRIOR TO INSTALLATION. COORDINATE ROUGH-IN INSTALLATION WITH EQUIPMENT DETAILS.
- ALL OPENINGS IN FIRE AND SMOKE PARTITIONS SHALL BE SEALED AS REQUIRED BY THE NEC/ FLORIDA BUILDING CODE. PROVIDE UL LISTED COMPOUND TO MATCH PARTITION RATING.
- DO NOT SCALE DRAWINGS. VERIFY FIELD CONDITIONS PRIOR TO AND DURING CONSTRUCTION FOR EXACT DEVICE / EQUIPMENT LOCATION.
- DEMOLITION WORK: PROVIDE DEMOLITION AND REMOVAL WORK AS INDICATED OR NEEDED. EQUIPMENT THAT IS TO BE REMOVED INCLUDES ALL ASSOCIATED WIRING, BOXES AND CONDUIT BACK TO SOURCE. CLOSE ALL UNUSED OPENINGS IN JUNCTION BOXES THAT REMAIN WITH SUITABLE PLUG OR COVER. WHEN REMOVING OR RELOCATING LIGHT FIXTURES OR OTHER DEVICES, FIELD VERIFY REMAINING DEVICES IN THE SAME CIRCUIT AND RECONNECT FOR CONTINUED SERVICE. EXISTING ELECTRICAL WORK INTERFERING WITH NEW CONSTRUCTION SHALL BE RELOCATED OR REROUTED TO SUIT FINAL INSTALLATION. CUTTING AND PATCHING REQUIRED SHALL BE DONE TO RESTORE AREAS TO ORIGINAL CONDITION.
- CONTRACTOR SHALL PROVIDE TO LOCAL AHJ OR PERMITTING AGENCY A COPY OF ALL MAJOR EQUIPMENT CUT SHEETS AT TIME OF APPLICATION IF REQUESTED.
- LIGHT POLES, AND BASE DESIGNS ARE TO BE COMPLETED BY THE LIGHTING MANUFACTURER AND ELECTRICAL CONTRACTOR. THE ELECTRICAL CONTRACTOR SHALL PROVIDE SIGNED AND SEALED LIGHT POLE AND BASE DRAWINGS MEETING THE FBC WIND LOAD CRITERIA CH 16.

THESE DOCUMENTS HAVE BEEN PREPARED BASED ON INFORMATION PROVIDED BY OTHERS. THE CONSULTANT HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY BE INCORPORATED AS A RESULT OF ERRONEOUS INFORMATION PROVIDED BY OTHERS. NOTIFY THIS ENGINEER IMMEDIATELY OF ANY DISCREPANCIES FOUND.

ABBREVIATIONS

A	AMPERE
AC	AIR CONDITIONING OR ALTERNATING CURRENT
ACC	ACCESS
AF	AMPERE FRAME
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHJ	AUTHORITY HAVING JURISDICTION
AHU	AIR HANDLER UNIT
AM	AMMETER
ARCH	ARCHITECT
AT	AMPERE TRIP
ATC	AUTOMATIC TEMPERATURE CONTROL
ATS	AUTOMATIC TRANSFER SWITCH
AWG	AMERICAN WIRE GAUGE
C	CONDUIT
CAT	CATEGORY
CB	CIRCUIT BREAKER
CH	CHILLER
CKT	CIRCUIT
CL	CENTER LINE
CLF	CURRENT-LIMITING FUSE
CM	CEILING MOUNTED
CNTL	CONTROL
CU	COPPER
DWG(S)	DRAWING(S)
EC	ELECTRICAL CONTRACTOR
EF	EXHAUST FAN
EM	EMERGENCY
EMS	ENERGY MANAGEMENT SYSTEM
EMT	ELECTRICAL METALLIC TUBING
EPO	EMERGENCY POWER OFF
EW	ELECTRIC WATER COOLER
EW	ELECTRIC WATER HEATER
EX	EXISTING TO REMAIN
FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
FACC	FIRE ALARM COMMAND CENTER
FATC	FIRE ALARM TERMINAL CABINET
FLR	FLOOR
FMC	FURNISHED BY MECHANICAL CONTRACTOR
FO	FIBER OPTIC
FOTC	FIBER OPTIC TERMINAL CABINET
FSS	FIRE SUPPRESSION SYSTEM
FWE	FURNISHED WITH EQUIPMENT
GFI	GROUND FAULT INTERRUPTER
GND	GROUND
GRS	GALVANIZED RIGID STEEL CONDUIT
HOA	HAND-OFF-AUTO
HACR	HEATING/AIR CONDITIONING-RATED
HID	HIGH INTENSITY DISCHARGE
HPF	HIGH POWER FACTOR
HPS	HIGH PRESSURE SODIUM
HZ	HERTZ
HP	HORSEPOWER
IG	ISOLATED GROUND
IMC	INTERMEDIATE METALLIC CONDUIT
JB	JUNCTION BOX
KAIC	KILO AMPERE INTERRUPTING CAPACITY
KCMIL	THOUSAND CIRCULAR MILS
KVA	KILOVOLT AMPERE
KW	KILOWATT
LC	LIGHTING CONTACTOR
MC	MECHANICAL CONTRACTOR
MCC	MOTOR CONTROL CENTER
M-G	MOTOR GENERATOR
MDP	MAIN DISTRIBUTION PANEL
MH	METAL HALIDE
MOD	MOTOR OPERATED DAMPER OR DOOR
MTD	MOUNTED
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NF	NON-FUSED
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NI	NOT IN CONTRACT
NL	NIGHT LIGHT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OCPD	OVER CURRENT PROTECTIVE DEVICE
PNL	PANEL
PH	PHASE
PB	PUSHBUTTON
PE	PHOTOELECTRIC CONTROLLER
PC	PLUMBING CONTRACTOR
PVC	POLYVINYL CHLORIDE CONDUIT
R	RELOCATED
RTU	ROOF TOP UNIT
SCH	SCHEDULE
SEC	SECURITY
SW	SWITCH
SWGR	SWITCHGEAR
TEL,T	TELEPHONE
TBB	TELEPHONE BACKBOARD
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR
TC	TIME CLOCK
TRF	TRANSFORMER
XFR	TRANSFER
TYP	TYPICAL
UG	UNDERGROUND
UH	UNIT HEATER
UL,U.L.	UNDERWRITERS' LABORATORIES
UPS	UNINTERRUPTIBLE POWER SUPPLY
U.O.N.	UNLESS OTHERWISE NOTED
VT	VAPORTIGHT
VAV	VARIABLE AIR VOLUME
VFD	VARIABLE FREQUENCY DRIVE
VSD	VARIABLE SPEED DRIVE
V	VOLT
VM	VOLTMETER
W	WATT
WHM	WATTHOUR METER
WM	WATTMETER
WP	WEATHER PROOF

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ANNEX BUILDING -
ELECTRICAL SYMBOLS LEGENDS &
GENERAL NOTES

MANATEE COUNTY BUILDING
OPERATION FACILITY

4410 66TH STREET WEST, BRADENTON FLORIDA

REVISIONS

CAD DWG FILE: E201 SYMBOLS.DWG

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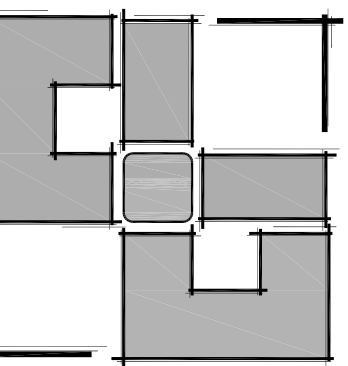
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**ANNEX BUILDING -
ELECTRICAL LIGHTING PLAN**

**MANATEE COUNTY BUILDING
OPERATION FACILITY**

4410 66TH STREET WEST, BRADENTON FLORIDA

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GENERAL NOTES:

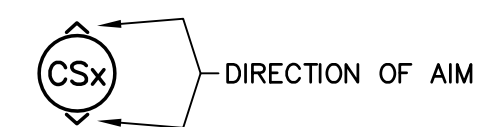
ALL EMERGENCY FIXTURES AND EXIT LIGHTS SHALL BE CONNECTED TO THE UN-SWITCHED PORTION OF THE CIRCUIT. (HOT ALL OF THE TIME).

WALL SWITCHES (SW) TO BE LEVITON OCCUPANCY SENSORS OSS10-IDW, SINGLE-POLE, 180 DEGREE, 1200 SQ. FT. COVERAGE, PASSIVE INFRARED WALL SWITCH OCCUPANCY SENSOR, COMMERCIAL GRADE, OR APPROVED EQUAL. MATCH COLOR WITH EXISTING SWITCHES.

CEILING MOUNT (CS) TO BE LEVITON OCCUPANCY SENSORS OSC10-M, MULTI-TECHNOLOGY, 360 DEGREE, 1000 SQ. FT. COVERAGE, SELF-ADJUSTING, CEILING MOUNT OCCUPANCY SENSOR, COMMERCIAL GRADE - WHITE OR APPROVED EQUAL. POWER PACKS SHALL MATCH SENSOR MANUFACTURER. ENSURE THAT THERE ARE NO BLIND SPOTS IN THE COVERAGE OF THE CEILING MOUNTED SENSORS.

DIMMER SWITCHES TO BE LEVITON 82000 SERIES 2000W, SLIDE TYPE WITH MANUAL ON/OFF, WHITE, OR APPROVED EQUAL.

PROVIDE VOLTAGE DROP CALCULATIONS FOR EXTERIOR LIGHTING CIRCUITS.

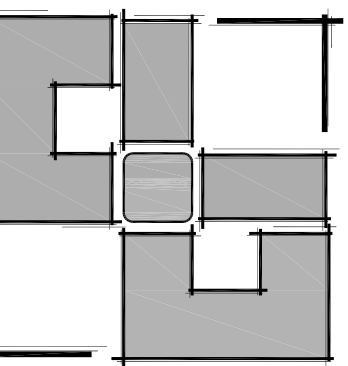


CEILING OCC. SENSOR
NOT TO SCALE

1
E202
LIGHTING PLAN
1/4" = 1'-0"

CAD DWG FILE: E202 Lighting.DWG

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**ANNEX BUILDING -
ELECTRICAL POWER AND SYSTEMS PLAN**

**MANATEE COUNTY BUILDING
OPERATION FACILITY**

4410 66TH STREET WEST, BRADENTON FLORIDA

PLAN NOTES:

- 1 LOCATE GFCI RECEPTACLE UNDER COUNTER FOR DISPOSAL, SWITCH SHALL BE ABOVE COUNTER.
- 2 PROVIDE GFI CIRCUIT BREAKERS IN PANELBOARD FOR VENDING MACHINE CIRCUITS. VERIFY REQUIREMENTS OF VENDING MACHINES PRIOR TO INSTALLING CIRCUITS. BASIS FOR BIDDING IS SINGLE 20A, 125V RECEPTACLE, LIKE LEVITON 5891W, WHITE WITH COVERPLATE.
- 3 COORDINATE ABOVE COUNTER RECEPTACLES WITH ARCHITECTURAL CASEWORK DETAILS.
- 4 EXHAUST FAN W/ DISCONNECT SWITCH AND WALL BOX SWITCH TO BE PROVIDED BY MC. PROVIDE CONDUITS, CONDUCTORS, BACKBOXES, ETC., AS REQUIRED TO MAKE ALL ELECTRICAL CONNECTIONS. CONNECT TO CIRCUIT SHOWN. COORDINATE WALL SWITCH LOCATION WITH LIGHTING WALL SWITCHES UNLESS OTHERWISE NOTED. VERIFY FINAL LOCATION OF FAN WITH MC.

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POWER AND SYSTEMS PLAN
1/4" = 1'-0"