

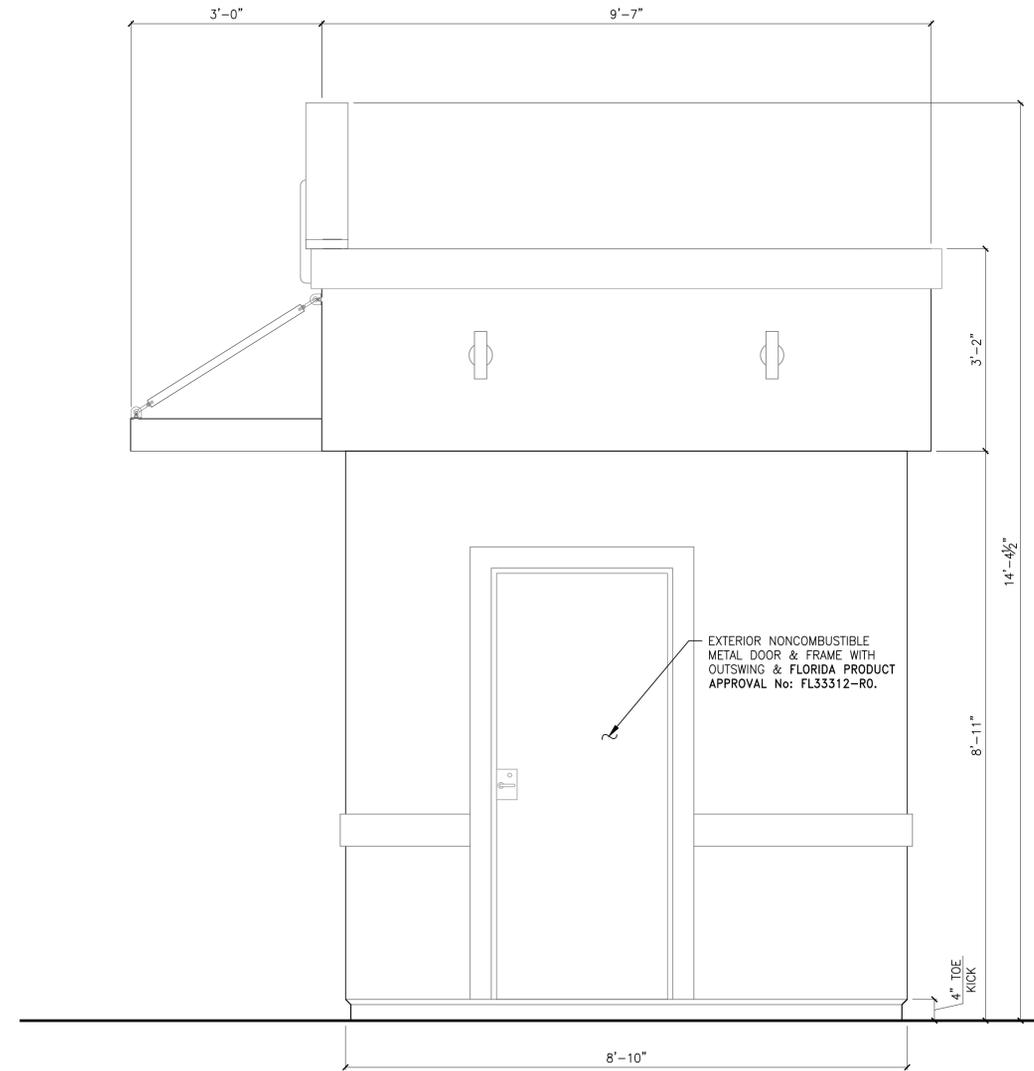
WATERMILL EXPRESS [®]

WATER VENDING MACHINE



FRONT ELEVATION

NOTE:
SIGNS ARE SHOWN FOR REFERENCE ONLY.
SIGNAGE MAY REQUIRE A SEPARATE PERMIT.
SIGNAGE IS AFFIXED TO THE UNIT PRIOR
TO SHIPPING TO THE SITE.



SIDE ELEVATION

FL MFT#: MFT-1194

LOCATION:
Parcel #: 25-28-25-000000-021060
Latitude: 28.01712°; Longitude: -81.759885°
Polk County
Winter Haven, FL 33880

THESE DRAWINGS HAVE BEEN REVIEWED AND APPROVED
BY "NTA" A ICC APPROVED THIRD PARTY DESIGN
APPROVAL AGENCY, THAT CERTIFIED THESE DRAWINGS ARE
IN COMPLIANCE WITH 2023 FLORIDA CODES-8th EDITION.
APPROVAL DATE: 2/12/2024
CERT. NO: SMP-056
PLAN NUMBER: MFT-1194-13-247-01-R4
THESE DRAWINGS MAY NOT BE USED AT ANY OTHER SITE
LOCATION THAN THE ONE NOTED ON THESE DRAWINGS.

WATERMILL EXPRESS, INC.
PHONE: (303) 659-1573
FAX: (303) 659-1635
1177 S. 4th AVE.
BRIGHTON, COLORADO
80601

NELSON ENGINEERING
Professional Engineers & Land Surveyors
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Jackson 307.733.2087 | Buffalo 307.684.7029



THIS ITEM HAS BEEN DIGITALLY
SIGNED & SEALED BY:
CARLA M. HANSEN
ON THE DATE ADJACENT TO THE
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WATERMILL EXPRESS [®]
WATER VENDING MACHINE

SHEET
TITLE:
**STRUCTURAL
COVER**

DATE: ORIGIN Date:
JUNE 2019
DRAWN:
CMH
CHECKED:
DS
REVISIONS:
SEE SCHEDULE
ON SHEET S0

PROJECT NUMBER:
13-247-01
SHEET NUMBER:
S-Cover

5000 SERIES PROTOTYPE

OF 6 SHEETS

S:\Proj\2023\1847-01 Watermill Express -2023 Prototype Design\Structural Drawings\VM 5000 TIC Code 2023-NIA Curt & Base Updat.swg Cover Drawing - Aug 12 2025 11:32:29 am PLUTEEB BY: hansen

GENERAL NOTES & REQUIREMENTS

PROJECT DESCRIPTION:

- THIS PROJECT CONSISTS OF A PRE-CAST CONCRETE ICE AND WATER VENDING KIOSK. THE KIOSK CONSISTS OF A PRE-CAST CONCRETE BASE UNIT, WITH A PRE-CAST CONCRETE TOP UNIT ABOVE. A PRE-FABRICATED ALUMINUM AWNING FRAME IS ATTACHED TO THE FRONT OF THE CONCRETE TOP UNIT. THE PRE-CAST BASE & TOP UNIT, AS WELL AS THE ALUMINUM AWNING SYSTEM ARE SHOP FABRICATED & ASSEMBLED ON SITE. THE FOUNDATION SYSTEM IS A CONCRETE MATT FOOTING CAST ON SITE.
- THIS DESCRIPTION IS FOR GENERAL ORIENTATION ONLY.
- THE DESIGN APPROACH FOR THIS PROTOTYPE WAS TO USE THE MOST CONSERVATIVE DESIGN CRITERIA FROM A WIDE RANGE OF POTENTIAL KIOSK LOCATIONS. THIS DESIGN CRITERIA USED IS INDICATED BELOW.

CODES & STANDARDS:

THESE PLANS HAVE BEEN REVIEWED FOR COMPLIANCE WITH THE FOLLOWING CODES & STANDARDS: ALL REFERENCES ARE THE LATEST EDITION UNLESS NOTED OTHERWISE.

- FLORIDA BUILDING CODE 2023 (Eighth Edition).
- BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE: ACI 318 (CURRENT VERSION).
- MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES: CURRENT ASCE 7 STANDARD (ASCE 7-22)
- ALUMINUM DESIGN MANUAL: 2020
 - 2023 FLORIDA BUILDING CODE CHAPTER 20
 - AA ASM 35 AND AA ASM 1.
- AISC – STRUCTURAL STAINLESS STEEL DESIGN GUIDE
- STRUCTURAL WELDING CODE – ALUMINUM: AWS D1.2
- ALL SITE WORK SHALL CONFORM TO THE REQUIREMENTS OF THE CURRENT EDITION OF THE LOCAL BUILDING CODE.
- ADDITIONAL CODES & STANDARDS WHICH ALSO APPLY TO THE PROJECT, HOWEVER DO NOT APPLY DIRECTLY TO THE STRUCTURAL DESIGN OR THESE STRUCTURAL DRAWINGS ARE LISTED IN THE "ADDITIONAL ADOPTED CODES" NOTES SECTION ON THIS DRAWING.
- OCCUPANCY USE GROUP: S2
- CONSTRUCTION TYPE: VB
- FLORIDA PRODUCT APPROVAL PER 61G20-3

DESIGN CRITERIA:

THE DESIGN LOADS FOR CONCRETE SLAB; PRECAST WALL PANELS; AND ALUMINUM CANOPY FRAME ARE AS FOLLOWS:

- GRAVITY DEAD LOADING:
 - LOWER BASE UNIT WALLS & SLAB: 19,604 LBS
 - WATER VENDING PANELS IN FRONT WALL: 535 LBS MIN; 785 LBS MAX.
 - ICE VENDING PANEL IN FRONT WALL: 195 LBS MIN; 350 LBS MAX.
 - DOOR IN SIDE WALL: 240 LBS
 - WATER TANK INSIDE BASE UNIT: 120 LBS (EMPTY)
 - ICE SKID INSIDE BASE UNIT: 1,535 LBS (EMPTY)
 - TOP UNIT WALLS & SLAB: 13,437 LBS
 - AWNING FRAME: 165 LBS
 - ROOF TOP CONDENSERS: (2) @ 170LBS 340 LBS
- BASE UNIT EQUIPMENT LOADS:
 - WATER TANK FULL: 4,290 LBS (MAX)
 - ICE SKID WITH ICE MAKER & ICE: 4,010 LBS (MAX)
- ROOF LIVE LOAD:
 - 20 PSF MINIMUM
- SNOW & RAIN LOADING, WHERE APPLICABLE:
 - FLAT ROOF SNOW LOAD: $P_f = 60 \text{ PSF} > \text{RAIN LOAD}$ – (Use for All Units)
 - EXPOSURE FACTOR: $C_e = 1.0$
 - IMPORTANCE FACTOR: 0.8 (RISK CATEGORY 1 BUILDING)
FLORIDA UNITS: RISK CATEGORY II USED PER FBC FOR WIND LOADING. SNOW LOADING IMPORTANCE FACTOR & 60psf P_f SNOW LOAD NOT REQUIRED FOR FLORIDA WITH SNOW LOAD=0psf
 - THERMAL FACTOR: $C_t = 1.0$
 - SLOPE FACTOR: $C_s = 1.0$
- WIND LOADING:
THIS STRUCTURE IS NOT INTENDED TO BE PLACED IN HIGH VELOCITY HURRICANE ZONES (HVHZ), AND THEREFORE HAS NOT BEEN APPROVED TO BE PLACED IN SUCH ZONES.
 - BASIC WIND SPEED: $V_{ult} = 170 \text{ MPH [MAX]}$ (3-SECOND GUST)
 $V_{sd} = 132 \text{ MPH [MAX]}$
 - RISK CATEGORY= II (ASCE 7-22-Fig. 32.1-2; Risk Cat. II – Tornado Loads Not Reqd)
 - EXPOSURE CATEGORY= D
 - IMPORTANCE FACTOR= 1.0
 - ENCLOSURE CLASSIFICATION: ENCLOSED
 - BASE UNIT WALL – DESIGN PRESSURES:

	$NET +GC_{pi}$	$NET -GC_{pi}$
56 PSF (WINDWARD)		32 PSF (WINDWARD)
16 PSF (LEEWARD)		40 PSF (LEEWARD)
 - ROOF DESIGN PRESSURES: 84 PSF (UPLIFT – MAX.)
 - TOP UNIT WALL – DESIGN PRESSURES: 98 PSF (WINDWARD)
65 PSF (LEEWARD)
 - INTERNAL PRESSURE COEFFICIENT, $GC_{pi} = \pm 0.18$
 - CANOPY PRESSURES: 148 PSF (UPLIFT – MAX)
- SEISMIC LOADING:
 - RISK CATEGORY= II (FLORIDA UNITS ONLY)
 - IMPORTANCE FACTOR= 1.0
 - SPECTRAL RESPONSE ACCELERATION PARAMETERS: [Maximum parameters associated with this dwg set]

$S_s = 0.12 \text{ g (MAX)}$
$S_1 = 0.06 \text{ g (MAX)}$
$S_{ds} = 0.122 \text{ (MAX)}$
$S_{d1} = 0.10 \text{ (MAX)}$
 - SITE CLASS: D
 - SEISMIC DESIGN CATEGORY= B [Max. for this drawing set & Florida]
 - SEISMIC FORCE RESISTING SYSTEM:

$R = 5.0$
$C_d = 2.5$
$\Omega = 2.5$
$p = 2.5$
 - BASE SHEAR $V \leq 0.1134W$ (Allowed for these drawings)
 - OUT OF PLANE FORCES ON STRUCTURAL WALLS: $F_p \leq 0.227W_w$ (Allowed for these drawings)

EQUIVALENT LATERAL FORCE PROCEDURE USED, WITH BASE SLAB & TOP UNIT SLAB DESIGNED AS STRUCTURAL DIAPHRAGMS.

- SOILS:
 - ALLOWABLE BEARING PRESSURE: 1,500 PSF
 - COEFFICIENT OF FRICTION: 0.35

FOUNDATION SLAB NOTES:

SEE TYPICAL FOUNDATION NOTES ON SHEET NO. S1 OF THESE DRAWINGS:

- CAST IN PLACE CONCRETE: THE STRUCTURAL DESIGN OF THE FOOTING FOUNDATION IS BASED ON A SPECIFIED COMPRESSIVE STRENGTH f'_c OF 2,500 psi.

SEE SITE SPECIFIC REQUIREMENTS WHERE COMPRESSIVE STRENGTH IS TO EXCEED THIS DESIGNED VALUE.

PRE-CAST UNIT NOTES:

SEE TYPICAL PRE-CAST UNIT NOTES FOR BASE UNIT & TOP UNIT ON SHEET NO. S2 & S3 OF THESE DRAWINGS:

- PRE-CAST BASE & TOP UNITS SHALL RECEIVE ONE COAT OF BONDING AGENT AND ACRYLIC-BASED TEXTURED FINISH; PER THE MANUFACTURER'S INSTALLATION RECOMMENDATIONS PRIOR TO THE FINAL FINISH.

SPECIALTY INSPECTIONS:

THE FOLLOWING SPECIALTY INSPECTIONS SHALL BE PERFORMED IN THE FIELD, DURING CONSTRUCTION & INSTALLATION OF NOTED COMPONENTS:

- POST INSTALLED ANCHORS INTO HARDENED CONCRETE SHALL BE PERIODICALLY INSPECTED.
 - POST INSTALLED ANCHORS FOR THIS PROJECT INCLUDE ANCHORAGE OF CONDENSING UNITS ONLY. VERIFY WITH INSTALLER AT THE SITE IF CONDENSING UNITS ARE TO BE FIELD INSTALLED, OR IF THEY WERE FACTORY INSTALLED.
- REINFORCING STEEL PLACED IN THE FIELD FOR CAST IN PLACE CONCRETE, SHALL BE PERIODICALLY INSPECTED.

SPECIALTY INSPECTIONS TO BE PROVIDED BY AN APPROVED AGENCY, SPECIFIED BY THE OWNER. ALL SPECIALTY INSPECTIONS TO BE CONDUCTED AND REPORTS PROVIDED IN ACCORDANCE WITH THE CURRENT LOCAL BUILDING CODE.

LOCATION NOTES & ON-SITE REQUIREMENTS:

- THESE DRAWINGS SHALL NOT BE USED IN ANY LOCATION OR BY ANY REVIEWING AUTHORITY OTHER THAN THAT INDICATED IN THE LOWER RIGHT HAND CORNER OF THESE DRAWINGS, AS THESE DRAWINGS WERE PREPARED AND APPROVED FOR THE SPECIFIED LOCATION OR REVIEWING AUTHORITY ONLY.
- USE OF THESE DRAWINGS FOR ANY OTHER LOCATION; SITE; TOWN/CITY; COUNTY; OR STATE WITHOUT WRITTEN APPROVAL BY THE ENGINEER OF RECORD IS PROHIBITED, AND WILL VOID THE VALIDITY OF THESE DRAWINGS.
- THE EXTERIOR WALLS OF THE BASE UNIT AND THE PARAPET WALLS OF THE TOP UNIT ARE CONSTRUCTED OF PRECAST CONCRETE, THEREFORE ARE OF NONCOMBUSTIBLE MATERIAL.
- THE FRONT AWNING IS CONSTRUCTED OF ALUMINUM TUBE STEEL WITH ALUMINUM PLATE.
- THE EXTERIOR DOOR IS NONCOMBUSTIBLE METAL DOOR AND FRAME.
- EXTERIOR OUTSWING DOOR WITH FLORIDA PRODUCT APPROVAL #: FL33312-RO SHALL BE USED.
- ELECTRONIC SEALED SET OF PLANS ARE ON FILE IN THE 3rd PARTY AGENCY'S OFFICE AS DIRECTED BY DBPR.
- THIS BUILDING IS SUBJECT TO REVIEW AND APPROVAL OF FIRE INSPECTOR ON SITE WITH COMPLIANCE WITH CH. 633 FIRE SAFETY CODE.
- THIS STRUCTURE HAS BEEN DESIGNED FOR ERECTION OR INSTALLATION ON A SITE BUILT PERMANENT FOUNDATION AND IS NOT DESIGNED TO BE MOVED ONCE SO ERECTED OR INSTALLED.
- SITE ADDRESS PER FBC 501.2 VERIFIED AT SITE BY LOCAL AHJ.
- ON SITE ITEMS SUBJECT TO LOCAL APPROVAL:
 - ELECTRIC SERVICE METER; SERVICE DISCONNECT; SERVICE CONDUIT; GROUND ROD; PLUMBING WASTE AND VENT; FLOOR DRAIN; WATER SUPPLY LINE; BACKFLOW PREVENTER (RPZ); SUPPLY CUTOFF VALVE.
 - FOUNDATION & BOLLARDS
- PLUMBING CANNOT DRAIN ONTO THE PUBLIC WAY.

SPECIAL CONDITIONS/LIMITATIONS:

- THE WALL/BASE UNIT AND THE ROOF (TOP UNIT) ARE FABRICATED SEPARATELY & SHIPPED SEPARATELY.
- THE WALL/BASE UNIT AND THE ROOF UNIT CONNECTION IS SUBJECT TO LOCAL INSPECTION.
- THE TOP UNIT IS TO BE ATTACHED ON SITE. SEE DETAILS 1 & 3 ON DRAWING S3.
- DECAL IS TO BE AFFIXED NEAR THE DOOR FRAME.
- INSIGNIA & DATA PLATE IS TO BE AFFIXED INSIDE THE ELECTRICAL PANEL BOX.
- THE BASE SERIAL NUMBER SHALL BE LOCATED ON THE DOOR FRAME.
- THE ROOF SERIAL NUMBER SHALL BE LOCATED ON THE INSIDE OF THE ROOF CURB VISIBLE FROM THE INSIDE.
- THIS BUILDING IS NOT DESIGNED TO BE HEATED AND COOLED AND IS EXEMPT FROM ENERGY ENVELOPE COMPLIANCE IN ACCORDANCE WITH IECC SECTION C402.1.1(2).
- THIS STRUCTURE IS NOT DESIGNED FOR HIGH VELOCITY HURRICANE ZONES (HVHZ) AND IS NOT APPROVED TO BE PLACED IN MIAMI/DADE COUNTY; BROWARD COUNTY; OR ANY AREAS THAT EXCEED THE DESIGN WIND LOADING INDICATED ON THIS DRAWING.
 - PROJECT ENGINEER TO VERIFY INTENDED LOCATION AND THESE DRAWINGS SHALL NOT BE USED FOR ANY LOCATION OTHER THAN THAT NOTED ON THIS DRAWING SET.

ADDITIONAL ADOPTED CODES:

ADDITIONAL CODES & STANDARDS WHICH APPLY TO THE PROJECT, HOWEVER DO NOT DIRECTLY APPLY TO THE STRUCTURAL DESIGN OR THESE STRUCTURAL DRAWINGS INCLUDE:

- 2023 FLORIDA PLUMBING CODE (8th EDITION), & 2023 FLORIDA BUILDING CODE AS APPLICABLE.
- 2023 FLORIDA ENERGY CODE (8th EDITION).
 - THIS UNIT MEETS C101.4.2.3 AS DESCRIBED IN SECTION C402.1.1.
- 2023 FLORIDA MECHANICAL CODE (7th EDITION)

THESE DRAWINGS HAVE BEEN REVIEWED AND APPROVED BY "NTA" A ICC APPROVED THIRD PARTY DESIGN APPROVAL AGENCY, THAT CERTIFIED THESE DRAWINGS ARE IN COMPLIANCE WITH 2023 FLORIDA CODES-8th EDITION. APPROVAL DATE: 2/12/2024
CERT. NO: SMP-056
PLAN NUMBER: MFT-1194-13-247-01-R4
THESE DRAWINGS MAY NOT BE USED AT ANY OTHER SITE LOCATION THAN THE ONE NOTED ON THESE DRAWINGS.

STRUCTURAL DRAWING INDEX

S-COVER – STRUCTURAL COVER PAGE

S0 – NOTES & REVISIONS

S1 – FOUNDATION PLAN & DETAILS

*S2 – BASE UNIT PLAN & WALL ELEVATIONS

*S3 – TOP UNIT PLAN & WALL ELEVATIONS

*S4 – AWNING DETAILS

NOTE:

Drawings *S2; *S3; & *S4 are for PRECAST and PRE-ENGINEERED systems (precast concrete Base Unit; precast concrete Top Unit; and prefabricated Aluminum awning).

At Owners (WATERMILL EXPRESS INC.) request and upon approval from the Local Building Department Authority – Drawings S2; S3; & S4 may not need to be submitted for approval by the building department as are approved under the NTA 3rd party Review and are precast and pre-assembled systems. However these noted drawing pages can be provided to the building department upon request.

REVISIONS:

No.:	DATE:	DESCRIPTION:
△	4/10/2015	<ul style="list-style-type: none"> ADDED SPECIALTY INSPECTION NOTES TO THE GENERAL REQUIREMENTS ON DRAWING S0. UPDATED DRAWING S1, NOTE 4, TO INCLUDE SPECIALTY INSPECTIONS. UPDATED DRAWING S3, NOTE 12, TO INCLUDE SPECIALTY INSPECTIONS. ADDED LOCATION NOTES, FOR INTENDED PLACEMENT OF UNIT.
△	3/4/2016	<ul style="list-style-type: none"> MODIFIED BASE UNIT FOUNDATION KEY PLAN & EPOXY NOTES TO INCLUDE VERS-A-SHIM SHIM STRIPS; & EPOXY GEL PROPERTIES FOR "OR EQUAL" PRODUCT COMPARISON.
△	7/8/2016	<ul style="list-style-type: none"> MODIFIED SEISMIC GROUND MOTION DESIGN & MAX SEISMIC VALUES FOR NEW MEXICO
△	Nov./2016	<ul style="list-style-type: none"> UPDATED DRAWINGS FOR UPDATED CODES, INCLUDING IBC 2015 & ACI 318-14. ADDED TWO ADDITIONAL BOLLARDS AT THE BACK SIDE OF THE UNIT FOUNDATION PLAN. UPDATED TITLE BLOCK FOR RADCO APPROVAL, & ADDED SPECIAL CONDITIONS/LIMITATIONS NOTES. MODIFIED DETAILS 3/S3 & 4/S3 FOR REQUESTED CHANGES. MODIFIED NOTE 10 ON DRAWING S3; & NOTE 2 ON DRAWING S4.
△	Dec./2016	<ul style="list-style-type: none"> ADDED NOTE #1 UNDER "SPECIAL CONDITIONS/LIMITATIONS" ON DRAWING S0. ADDED NOTE #2 UNDER "SPECIAL CONDITIONS/LIMITATIONS" ON DRAWING S0. ADDED NOTE #6 UNDER "SPECIAL CONDITIONS/LIMITATIONS" ON DRAWING S0. ADDED NOTE #7 UNDER "SPECIAL CONDITIONS/LIMITATIONS" ON DRAWING S0. ADDED NOTE #9A UNDER "PRE-CAST BASE UNIT NOTES" ON DRAWING S2. ADDED NOTE #9A UNDER "PRE-CAST TOP UNIT NOTES" ON DRAWING S3.
△	July/2018	<ul style="list-style-type: none"> AWNING FRAME TUBE STEEL TO BE 6061-T6. (UPDATED NOTES ON DRAWING S4)
△	August/2018	<ul style="list-style-type: none"> INCLUDED APPENDICES C, F, K, & TX AMENDMENTS TO 2015 IBC CODE COMPLIANCE. INCLUDED ADOPTED CODES NOTE ON DRAWING S0. AMENDED SPECIAL CONDITIONS/LIMITATIONS TO INCLUDE NOTE #8.
△	Feb./2019	<ul style="list-style-type: none"> UPDATED TITLE BLOCK WITH WATERMILL EXPRESS'S NEW LOCATION & ADDRESS.
△	June/2019	<ul style="list-style-type: none"> UPDATED DRAWING SET FOR 2017 FLORIDA BUILDING CODE.
△	March/2020 April/2020 May/2020	<ul style="list-style-type: none"> UPDATED COVER DRAWING; S0; S3; & S4 IN DRAWING SET FOR PLAN CHECK REVISIONS FOR 2017 FLORIDA BUILDING CODE. UPDATED BOLLARD CAP COVER FROM PVC CAP TO HDPE SLEEVE UPDATED S0, DESIGN CRITERIA #4; & #6 PER REVIEW COMMENTS. UPDATED S1 – ADDED NOTE #20; S2 & S3 – REVISED NOTES #5.
△	October/2020	<ul style="list-style-type: none"> UPDATED COVER PAGE & S0 TO INCLUDE FLORIDA PRODUCT APPROVAL FL3905-R9 FOR EXTERIOR DOOR. ADDED FLORIDA PRODUCT APPROVAL UNDER CODES & STANDARDS. MODIFIED LOCATION NOTES HEADER & ADDED ADDITIONAL NOTES UNDER LOCATION NOTES & ON-SITE REQUIREMENTS.
△	April/2021	<ul style="list-style-type: none"> UPDATED DRAWING SET FOR 2020 FLORIDA BUILDING CODE & ASSOCIATED ASCE 7-16. UPDATED OUTSWING DOOR NOTES ON COVER PAGE & S0 FOR PRODUCT APPROVAL: FL3905-R10
△	October/2022	<ul style="list-style-type: none"> UPDATED DRAWINGS FOR 2021 & 2022 SUPPLEMENTS TO THE 2020 FLORIDA BUILDING CODE: S0. UPDATED OUTSWING DOOR NOTES ON COVER PAGE & S0 WITH PRODUCT APPROVAL: FL33312-RO UPDATES TO BASE UNIT FLOOR OPENINGS: S2.
△	December/2022	<ul style="list-style-type: none"> REMOVED GRAVEL OPENING IN FOUNDATION. REMOVED TELECOM OPENING: S1.
△	May/2023	<ul style="list-style-type: none"> UPDATED NTA NOTE WITH MOST RECENT NTA REVIEW & APPROVAL.
△	October/2023	<ul style="list-style-type: none"> REVISED BOLLARD DETAIL DRAWING S1.
△	January/2024 March/2024	<ul style="list-style-type: none"> UPDATED DRAWINGS FOR 2023 FLORIDA BUILDING CODE & ASCE 7-22. UPDATED NTA APPROVAL STAMP – APPROVED 2/12/2024
△	June/2024	<ul style="list-style-type: none"> UPDATED S1 & S2 FOR ANGLE BRACKET CONNECTION OF BASE UNIT TO FOUNDATION SLAB, REVISED BOLLARD DETAIL S1. ADDED NOTES ON DRAWING S1 REGARDING ANGLE BRACKET OPTION VERSUS EPOXY OPTION FOR ANCHORAGE OF BASE UNIT TO FOUNDATION SLAB.
	July/2024	<ul style="list-style-type: none"> ADDED SOIL LOADING DIAGRAM TO S1 – FOUNDATION PLAN

REVISIONS MADE TO THE PROJECT DRAWINGS PRIOR TO SUBMITTAL TO FLORIDA FOR REVIEW ARE NOTED AS: TEXT

LOCATION:

Parcel #: 25-28-25-00000-021060
Latitude: 28.01712°; Longitude: -81.759885°
Polk County
Winter Haven, FL 33880

WATERMILL EXPRESS, INC.

PHONE: (303) 659-1573
FAX: (303) 659-1635

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BRIGHTON, COLORADO 80601

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Professional Engineers & Land Surveyors

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Jackson 307.739.2087 | Buffalo 307.684.7029



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WATERMILL EXPRESS

WATER VENDING MACHINE

SHEET TITLE:

NOTES & REVISIONS

DATE: ORIGIN Date: JUNE 2019

(See Dated Engineer Stamp for Drawing date)

DRAWN: CMH

CHECKED: DS

REVISIONS: SEE SCHEDULE ON SHEET S0

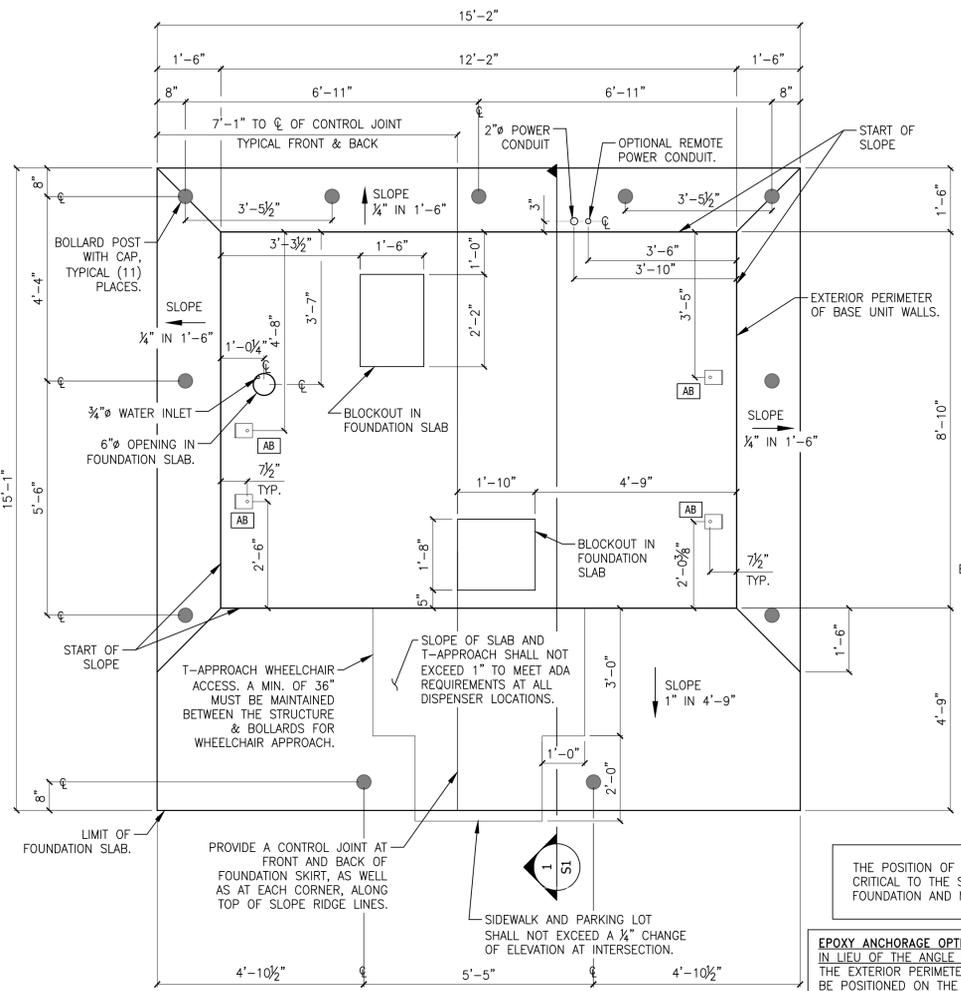
PROJECT NUMBER: 13-247-01

SHEET NUMBER: S0

OF 6 SHEETS

FOUNDATION NOTES:

- SLAB:**
 1) THE REINFORCED FOUNDATION SLAB IS DESIGNED FOR THE LOADS INDICATED ON SHEET S0.
- CAST-IN PLACE CONCRETE:**
 1) ALL CONCRETE WORK & DETAILING SHALL CONFORM TO THE REQUIREMENTS OF THE LATEST EDITION OF THE AMERICAN CONCRETE INSTITUTE STANDARD: ACI 318.
 2) ALL FOUNDATION CONCRETE SHALL BE NORMAL WEIGHT WITH A MINIMUM COMPRESSIVE STRENGTH OF 2,500 psi IN 28 DAYS AND SHALL BE READY MIX CONCRETE PER ASTM C94. (SIX SACK MIX); SLUMP NO LESS THAN 1" & NO GREATER THAN 4".
 3) ALL REINFORCING STEEL SHALL BE ASTM A615, GRADE 60, DEFORMED BARS.
 4) ALL REINFORCING SHALL BE INSPECTED AND APPROVED BY THE OWNER PRIOR TO CONCRETE PLACEMENT. SPECIALTY INSPECTION TO BE PROVIDED PERIODICALLY FOR REINFORCING STEEL PLACED IN THE FIELD. SEE SPECIALTY INSPECTION SECTION OF GENERAL NOTES & REQUIREMENTS ON DRAWING S0.
 5) REMOVE ALL LOOSE MATERIAL FROM SUB BASE SURFACE IMMEDIATELY PRIOR TO PLACING CONCRETE.
 6) SET FORMS TO REQUIRED GRADES AND LINES, RIGIDLY BRACE AND SECURE. CHECK COMPLETED FORM WORK FOR GRADE AND ALIGNMENT. TOP OF FORMS SHALL BE LEVEL, OR AT THE INTENDED ELEVATION & SLOPE WITHIN 1/8" PER 10 FEET.
 7) CONCRETE FOR BASE FOUNDATION SLAB SHALL BE PLACED IN ONE CONTINUOUS OPERATION.
 8) PLACE CONCRETE USING METHODS WHICH PREVENT SEGREGATION. CONSOLIDATE CONCRETE ALONG FACE OF FORMS WITH INTERNAL VIBRATOR.
 9) IF CONCRETE PLACEMENT IS INTERRUPTED FOR MORE THAN 1/2 HOUR, IT WILL BE CAUSE FOR REJECTION OF ALL CONCRETE WORK.
 10) CONSTRUCT CONTROL JOINTS IN THE FRESH CONCRETE FOUNDATION SLAB FOR A DEPTH OF 1", BY GROOVING THE TOP PORTION OF THE SLAB WITH A CUTTING TOOL AND FINISHING THE EDGES WITH A JOINTER.
 11) AFTER CONCRETE PLACEMENT, STRIKE-OFF, CONSOLIDATE, AND SMOOTH THE SURFACE BY SCREEDING AND FLOATING. COMPACT THE SURFACE AND PRODUCE A UNIFORM TEXTURE.
 12) WORK EDGES OF SLABS AND FORMED JOINTS WITH AN EDGING TOOL, AND ROUND TO 1/2" RADIUS.
 13) AFTER COMPLETION OF FLOATING AND TROWELING, COMPLETE SURFACE FINISHING AS FOLLOWS:
 SLOPED APRON: BROOM FINISH BY DRAWING A FINE HAIR BROOM ACROSS THE CONCRETE SURFACE.
 FLAT INTERIOR SECTION: TROWEL FINISH.
 14) PROTECT AND CURE THE FOUNDATION SLAB BY USE OF CURING OR SEALING COMPOUND, APPLIED PER THE MANUFACTURER'S RECOMMENDATIONS.
 15) DO NOT PLACE CONCRETE IN WATER OR ON FROZEN GROUND.
 16) WHEN FOUNDATION SLAB IS PLACED ON NATURAL SOILS, REMOVE VEGETATION; DEBRIS AND UN-SATISFACTORY SOIL MATERIALS.
 17) THIS DRAWING SHALL BE USED IN COMBINATION WITH THE MECHANICAL; ELECTRICAL; EQUIPMENT; & PRECAST BASE UNIT DRAWINGS. FOR FINAL SIZES; LOCATIONS AND DETAILS OF OPENINGS; SLEEVES; CONDUITS; INSERTS AND OTHER REQUIREMENTS.
 18) THE STEEL PIPE USED FOR THE BOLLARDS SHALL CONFORM TO ASTM A53 GRADE B. THE MAXIMUM DIMENSIONS OF THE FOUNDATION SLAB & BOLLARD LOCATIONS INDICATED ON THESE PLANS MAY VARY DEPENDING ON THE PARTICULAR UNIQUE SITE/PARKING LOT/LANDSCAPED PLANTER AREA REQUIREMENTS.
 19) FOUNDATION REINFORCEMENT SHALL BE CONTINUOUS BARS WITH NO LAPPED SPLICES. ADDITIONAL #4 BARS IDENTIFIED AT EACH SIDE OF THE OPENING TO BE 11"-8" IN LENGTH, WITH A 1/2" CLEAR DISTANCE AT THE OUTSIDE PERIMETER (TYPICAL ALL AROUND) & EXTENDING 2'-9 1/2" PAST THE INSIDE EDGE OF THE OPENING; AS SHOWN ON THE FOUNDATION PLAN REBAR LAYOUT THIS SHEET.
 20) FOUNDATION REINFORCEMENT SHALL BE SECURELY TIED IN PLACE WITH DOUBLE ANNEALED 16 GAUGE TIE WIRE. WELDING OF REINFORCEMENT IN THE FIELD IS NOT PERMITTED.



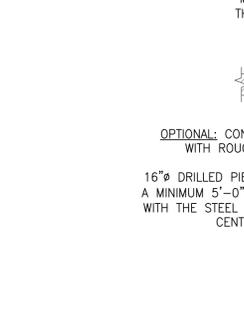
FOUNDATION PLAN - OPTION A
 Scale: 1/2" = 1'-0" (24x36)

THE BASE UNIT SHALL BE ATTACHED TO THE FOUNDATION SLAB WITH EITHER THE ANGLE BRACKET OPTION -OR- THE EPOXY ANCHORAGE OPTION, BOTH INDICATED ON THIS DRAWING.

ANGLE BRACKET OPTION:
 IN LIEU OF THE PRIME GEL 2000 EPOXY: 5x5x3/8 x 4" STEEL ANGLE BRACKET WITH STAINLESS STEEL HILTI KWIK BOLT 3 ANCHORS INTO FOUNDATION SLAB & ENDWALLS. SEE DETAILS ON DRAWING S2.

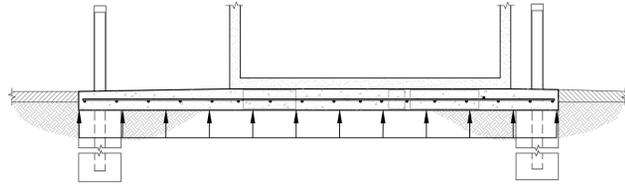
EPOXY ANCHORAGE OPTION:
 IN LIEU OF THE ANGLE BRACKETS: THE EXTERIOR PERIMETER OF THE PRECAST BASE UNIT SHALL BE POSITIONED ON THE FOUNDATION SLAB AS INDICATED. THE PRECAST BASE UNIT SHALL BE SECURED TO THE FOUNDATION SYSTEM WITH A "PRIME GEL 2000 HIGH MOD" HIGH STRENGTH MULTI PURPOSE STRUCTURAL EPOXY GEL ADHESIVE (OR EQUAL). THE GEL ADHESIVE SHALL BE SPREAD IN A 3" ± WIDE STRIP AROUND THE PERIMETER OF THE CENTER FOUNDATION SECTION.
 APPROVED SUBSTITUTION EPOXY GELS TO HAVE THE FOLLOWING PROPERTIES:
 • COMPRESSIVE STRENGTH: ≥ 9,500 psi
 • TENSILE STRENGTH: ≥ 3,750 psi
 • BOND STRENGTH: ≥ 3,430 psi (2 day cure)

THE POSITION OF THE BOLLARDS IS NOT CRITICAL TO THE STRUCTURAL INTEGRITY OF THE FOUNDATION AND MAY BE ADJUSTED AS NEEDED.



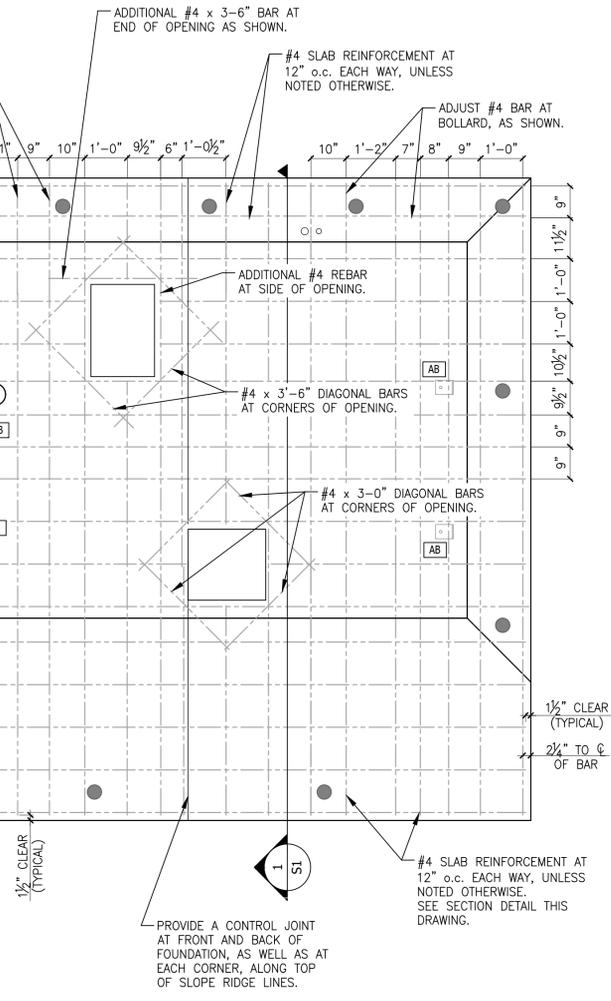
FOUNDATION SECTION S1
 Scale: 1/2" = 1'-0" (24x36)

LOCAL APPROVAL IS REQUIRED FOR PRESUMPTIVE LOAD-BEARING VALUES OF SOILS IN RELATION TO MAXIMUM FOUNDATION DUE TO VERTICAL LOADING ON EXISTING SOIL.
 MAX SOIL PRESSURE:
 (Resultant Soil Pressure against foundation due to vertical loading down onto soil)
 LC: D + 0.75(0.6W) + 0.75S:
 1,007 psf
 LC: D + 0.6W: 840 psf
 [With 60psf SL/Rain=1007psf WithOut Snow/Rain Load=840 psf]

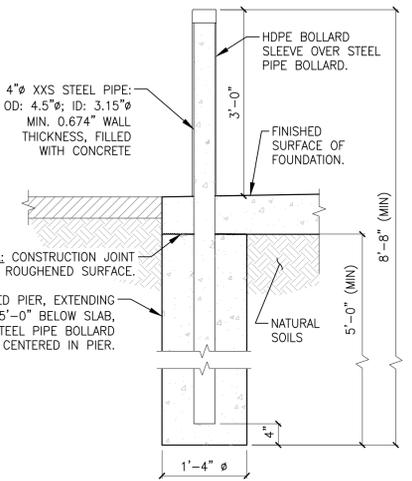


FOUNDATION LOADING DIAGRAM
 Scale: N.T.S.

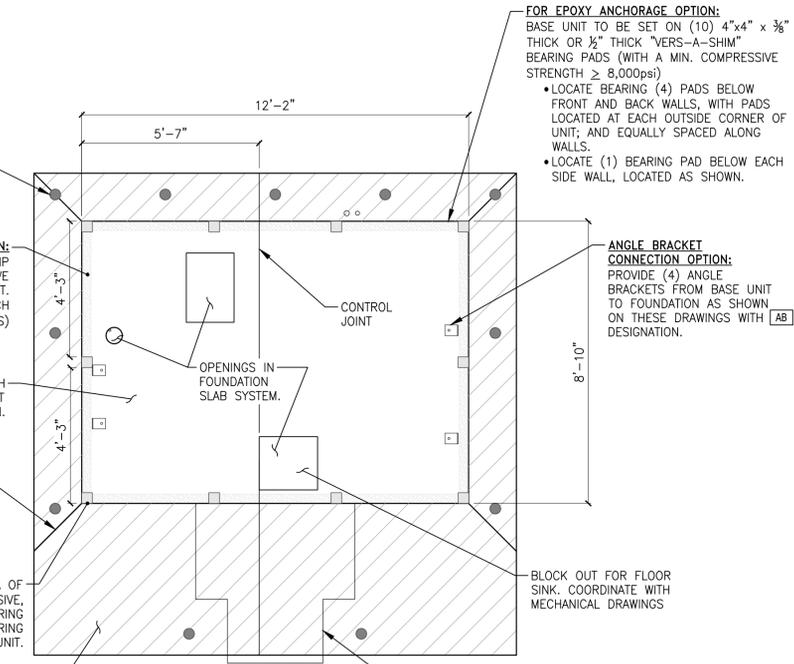
FOUNDATION BEARING NOTES:
 1. DESIGN CONDITIONS USED FOR ALLOWABLE BEARING PRESSURE ON EXISTING SITE SOILS IS: 1,500 PSF. THIS ALLOWABLE BEARING PRESSURE IS THE MINIMUM BEARING PRESSURE DEFINED PER FBC TABLE 1806.2 FOR PRESUMPTIVE LOAD-BEARING VALUES OF SOILS. THE ASSOCIATED CLASS OF MATERIALS FOR THIS BEARING VALUE IS: CLAY, SANDY CLAY, SILTY CLAY, CLAYEY SILT, SILT, AND SANDY SILT (CL, ML, MH & CH).



FOUNDATION PLAN REBAR LAYOUT
 Scale: 1/2" = 1'-0" (24x36)



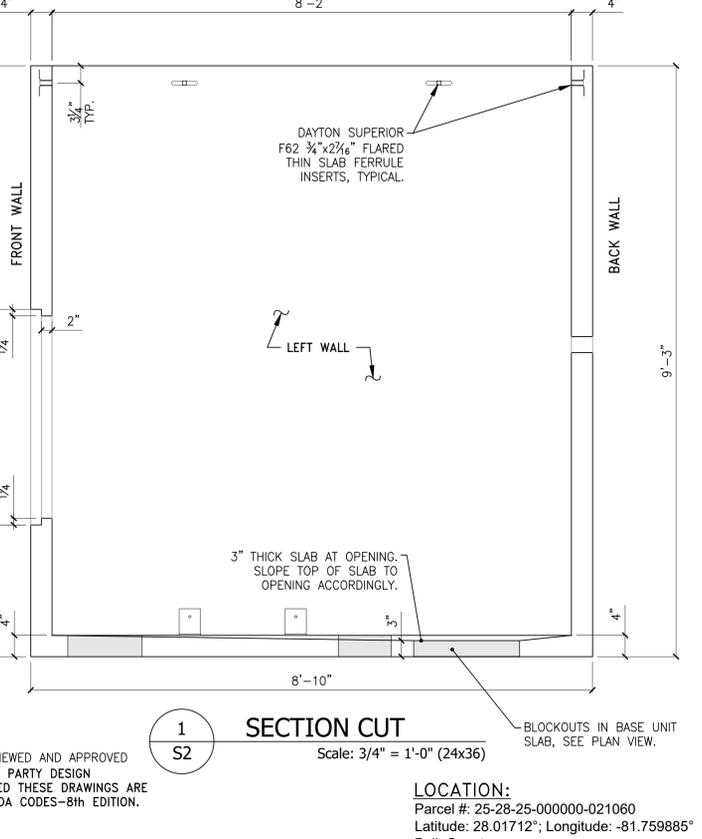
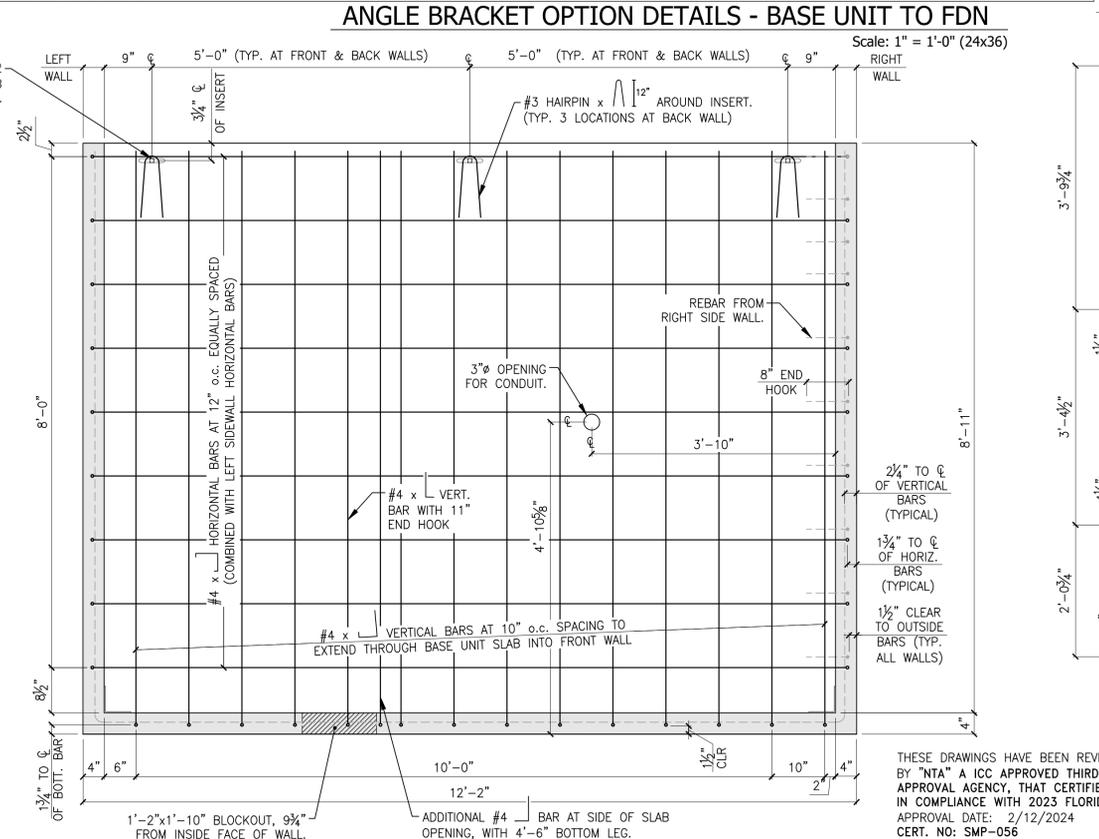
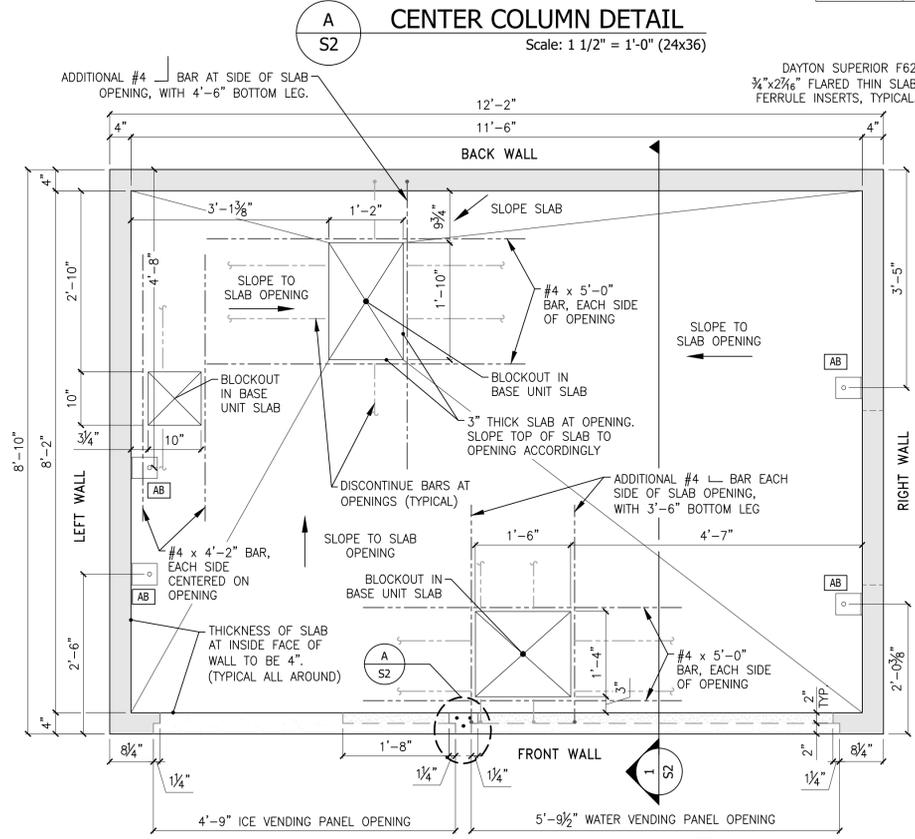
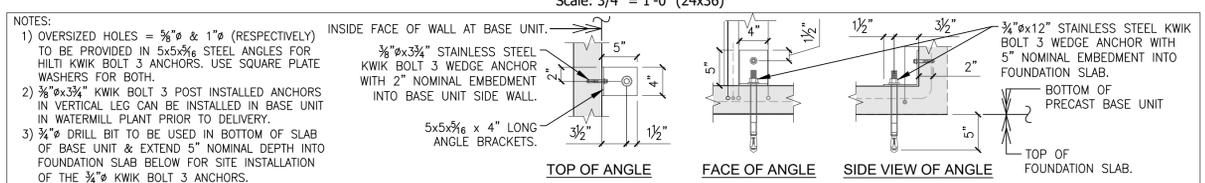
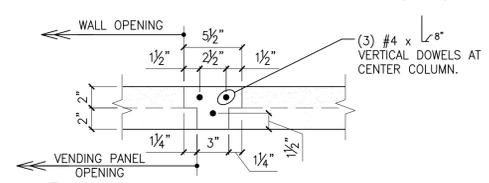
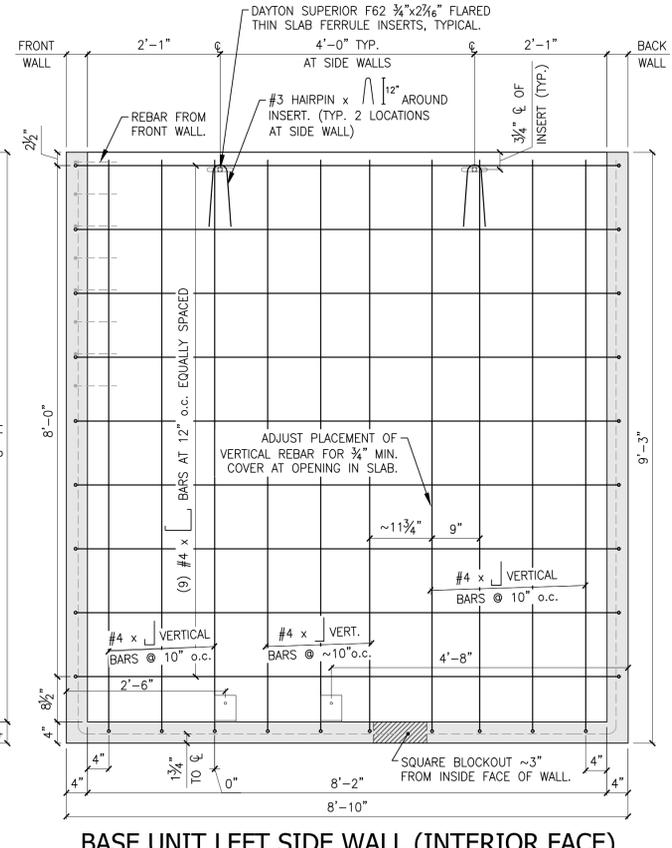
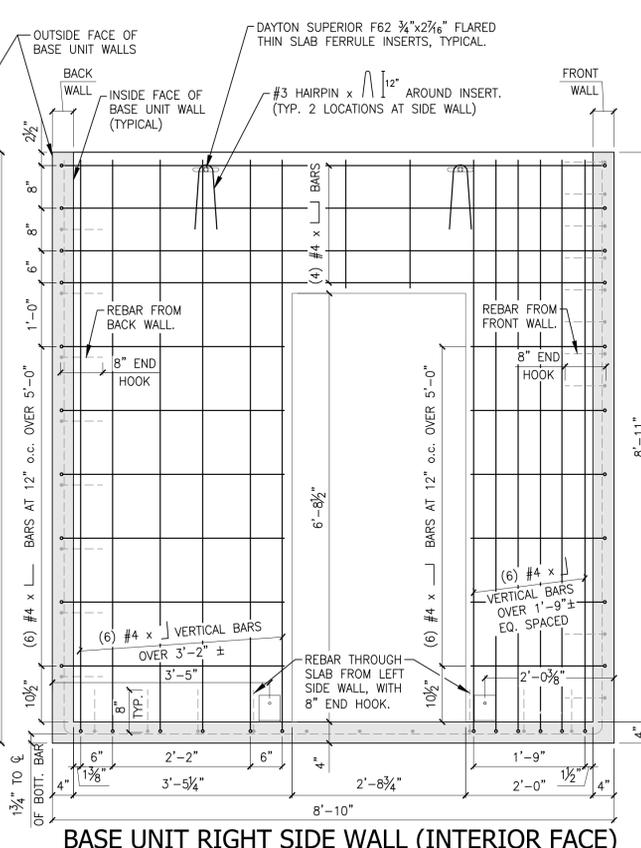
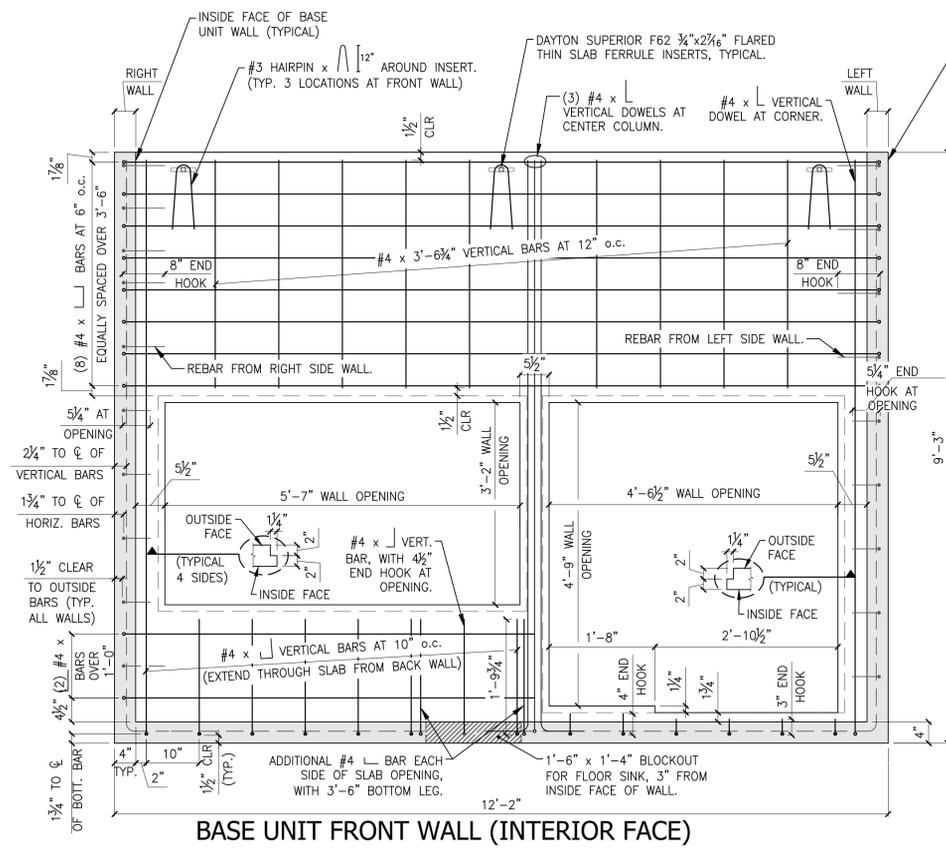
TYPICAL BOLLARD DETAIL
 Scale: 3/4" = 1'-0" (24x36)



FOUNDATION KEY PLAN
 Scale: 3/8" = 1'-0" (24x36)

LOCATION:
 Parcel #: 25-28-25-000000-021060
 Latitude: 28.01712°; Longitude: -81.759885°
 Polk County
 Winter Haven, FL 33880

THESE DRAWINGS HAVE BEEN REVIEWED AND APPROVED BY "NTA" A ICC APPROVED THIRD PARTY DESIGNING AGENCY, THAT CERTIFIED THESE DRAWINGS ARE IN COMPLIANCE WITH 2023 FLORIDA CODES-8th EDITION.
 APPROVAL DATE: 2/12/2024
 CERT. NO: SMP-056
 PLAN NUMBER: MFT-1194-13-247-01-R4
 THESE DRAWINGS MAY NOT BE USED AT ANY OTHER SITE LOCATION THAN THE ONE NOTED ON THESE DRAWINGS.



- PRE-CAST BASE UNIT NOTES:**
- PRECAST CONCRETE:**
- 1) THE PRECAST BASE UNIT SHELL IS DESIGNED FOR THE LOADS INDICATED ON DRAWING SO
 - 2) ALL CONCRETE WORK AND DETAILING SHALL CONFORM TO THE LATEST REQUIREMENTS OF THE AMERICAN CONCRETE INSTITUTE, ACI 318.
 - 3) ALL CONCRETE SHALL BE NORMAL WEIGHT WITH A MINIMUM COMPRESSIVE STRENGTH OF 5,000 PSI IN 28 DAYS, UNLESS NOTED OTHERWISE (U.N.O.)
 - 4) ALL REINFORCING STEEL SHALL BE ASTM A615, MINIMUM GRADE 60, DEFORMED BARS, U.N.O.
 - 5) WELDING OF REBAR IS NOT REQUIRED PER DESIGN AND SHALL ONLY BE PERFORMED BY PRECAST MANUFACTURER IF NEEDED FOR ASSEMBLY:
 - a) REINFORCING BARS SHALL CONFORM TO ASTM A706, GRADE 60 DEFORMED BARS.
 - b) ALL WELDS TO BE PER MANUFACTURER IN APPROVED FACILITY AND IN ACCORDANCE WITH AWS D1.4.
 - 6) REINFORCEMENT PROTECTION (COVER) SHALL BE: CONCRETE EXPOSED TO EARTH OR WEATHER: 1 1/2" FOR BARS #5 & SMALLER.
 - 7) BARS MARKED "CONT." (CONTINUOUS) SHALL BE FULLY DEVELOPED AT EACH END SECTION BY EMBEDMENT AND/OR END ANCHORAGE.
 - 8) ACTUAL DIMENSIONS OF THE PRECAST CONCRETE MAY VARY SLIGHTLY.
 - 9) FABRICATION OF PRECAST UNITS:
 - A. PRECAST BASE UNIT TO BE MANUFACTURED BY VAUGHN CONCRETE PRODUCTS, INC.
 - B. READY MIX CONCRETE SHALL COMPLY WITH REQUIREMENTS OF ASTM C94.
 - C. COAT SURFACES OF FORMS WITH BOND-BREAKING COMPOUND BEFORE REINFORCEMENT IS PLACED. PROVIDE COMMERCIAL FORMULATION FORM-COATING COMPOUNDS THAT WILL NOT BOND WITH, STAIN, NOR ADVERSELY AFFECT CONCRETE SURFACES; AND WILL NOT IMPAIR SUBSEQUENT TREATMENTS OF CONCRETE SURFACES REQUIRING BOND OR ADHESION. APPLY IN COMPLIANCE WITH MANUFACTURER'S INSTRUCTIONS.
 - D. CLEAN REINFORCEMENT OF LOOSE RUST AND MILL SCALE, EARTH AND OF THE MATERIALS WHICH REDUCE OR DESTROY BOND WITH CONCRETE.
 - E. ACCURATELY POSITION, SUPPORT, AND SECURE REINFORCEMENT AGAINST DISPLACEMENT BY FORMWORK, CONSTRUCTION, OR CONCRETE PLACEMENT OPERATIONS. LOCATE AND SUPPORT REINFORCING BY METAL CHAIRS, RUNNERS, BOLSTERS, SPACERS AND HANGERS, AS REQUIRED.
 - F. PLACE REINFORCEMENT TO OBTAIN AT LEAST THE MINIMUM COVERAGES FOR CONCRETE PROTECTION. NOTE: ARRANGE, SPACE AND SECURELY TIE BARS AND BAR SUPPORTS TO HOLD REINFORCEMENT IN POSITION DURING CONCRETE PLACEMENT OPERATIONS. SET WIRE TIES SO ENDS ARE DIRECTED INTO CONCRETE, NOT TOWARD EXPOSED CONCRETE SURFACES.
 - G. PLACE CONCRETE IN A CONTINUOUS OPERATION TO PREVENT FORMATION OF SEAMS OR PLANES OF WEAKNESS IN PRECAST UNITS, COMPLYING WITH REQUIREMENTS OF ACI 304. THOROUGHLY CONSOLIDATE PLACED CONCRETE BY INTERNAL AND EXTERNAL VIBRATION WITHOUT DISLOCATION OR DAMAGE TO REINFORCEMENT AND BUILT-IN ITEMS.
 - H. FINISH OF FORMED SURFACES: PROVIDE A COMMERCIAL FINISH. REMOVE FINNS AND LARGE PROTRUSIONS AND FILL LARGE HOLES. RUB OR GRIND RAGGED EDGES. FACES TO BE TRUE, WELL-DEFINED SURFACES.

- NOTES:**
- 1) OVERSIZED HOLES = 3/8" & 1" (RESPECTIVELY) TO BE PROVIDED IN 5x5x5/16" STEEL ANGLES FOR HILTI KWIK BOLT 3 ANCHORS. USE SQUARE PLATE WASHERS FOR BOTH.
 - 2) 3/8"x3/8" KWIK BOLT 3 POST INSTALLED ANCHORS IN VERTICAL LEG CAN BE INSTALLED IN BASE UNIT IN WATERMILL PLANT PRIOR TO DELIVERY.
 - 3) 3/4" DRILL BIT TO BE USED IN BOTTOM OF SLAB OF BASE UNIT & EXTEND 5" NOMINAL DEPTH INTO FOUNDATION SLAB BELOW FOR SITE INSTALLATION OF THE 3/8" KWIK BOLT 3 ANCHORS.
- INSIDE FACE OF WALL AT BASE UNIT:**
- 3/8"x3/8" STAINLESS STEEL KWIK BOLT 3 WEDGE ANCHOR WITH 2" NOMINAL EMBEDMENT INTO BASE UNIT SIDE WALL.
- 5x5x5/16 x 4" LONG ANGLE BRACKETS.

THESE DRAWINGS HAVE BEEN REVIEWED AND APPROVED BY "NTA" A ICC APPROVED THIRD PARTY DESIGN APPROVAL AGENCY, THAT CERTIFIED THESE DRAWINGS ARE IN COMPLIANCE WITH 2023 FLORIDA CODES-8th EDITION.

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PLAN NUMBER: MFT-1194-13-247-01-R4
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WATERMILL EXPRESS, INC.
PHONE: (303) 659-1573
FAX: (303) 659-1635

1177 S. 4th AVE.
BRIGHTON, COLORADO 80601

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WATERMILL EXPRESS
WATER VENDING MACHINE

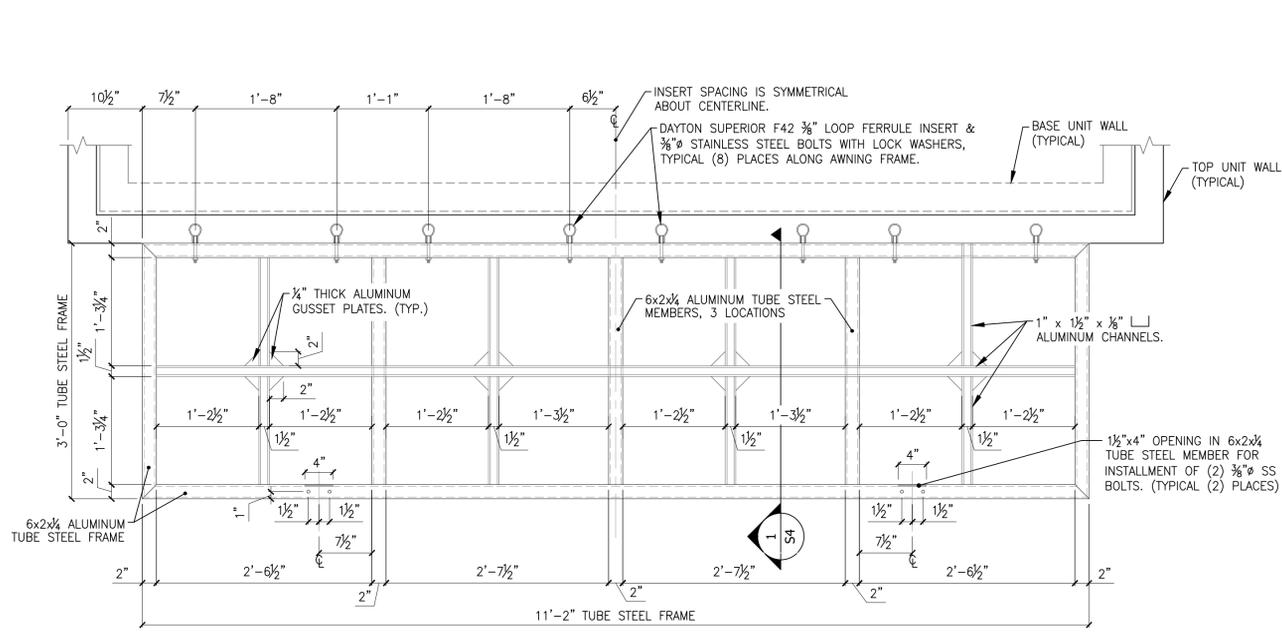
SHEET TITLE:
BASE UNIT PLAN & WALL ELEVATIONS

DATE: ORIGIN Date: JUNE 2019
DRAWN: CMH
CHECKED: DS
REVISIONS: SEE SCHEDULE ON SHEET S0

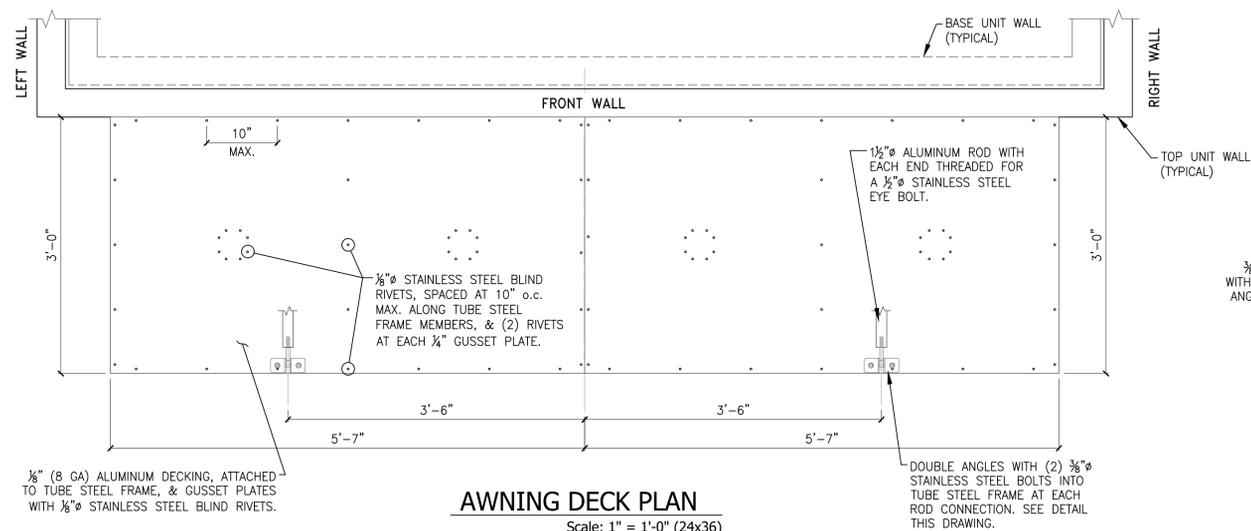
PROJECT NUMBER: 13-247-01
SHEET NUMBER: S2

5000 SERIES PROTOTYPE

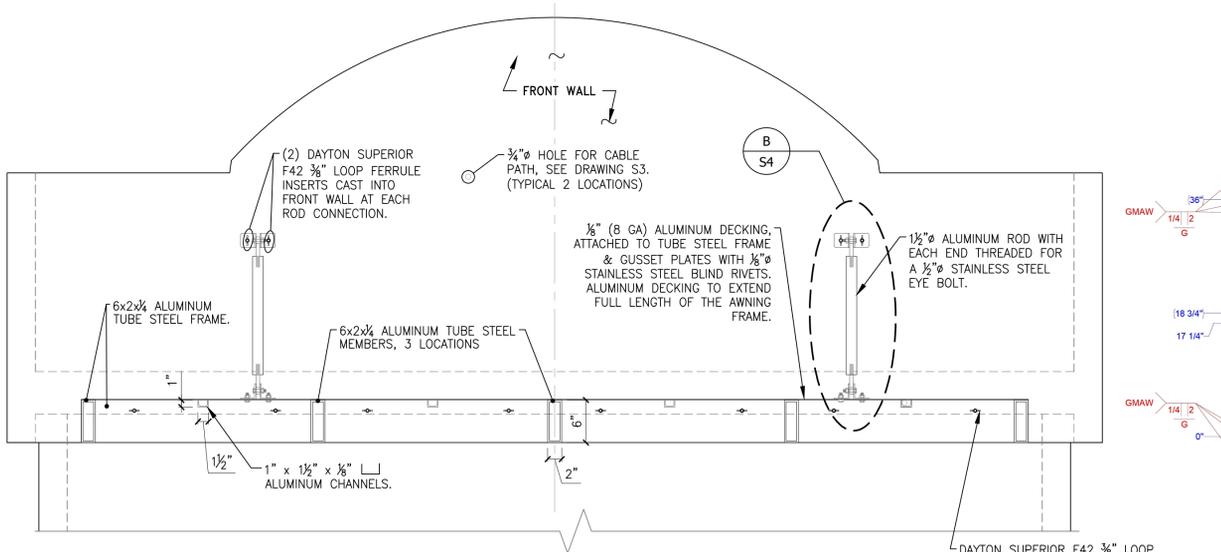
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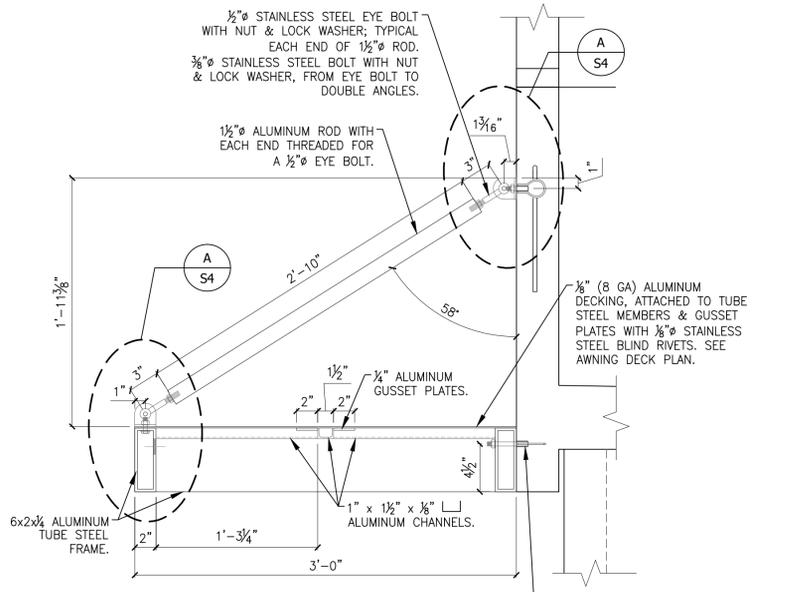
AWNING FRAME PLAN VIEW
Scale: 1" = 1'-0" (24x36)



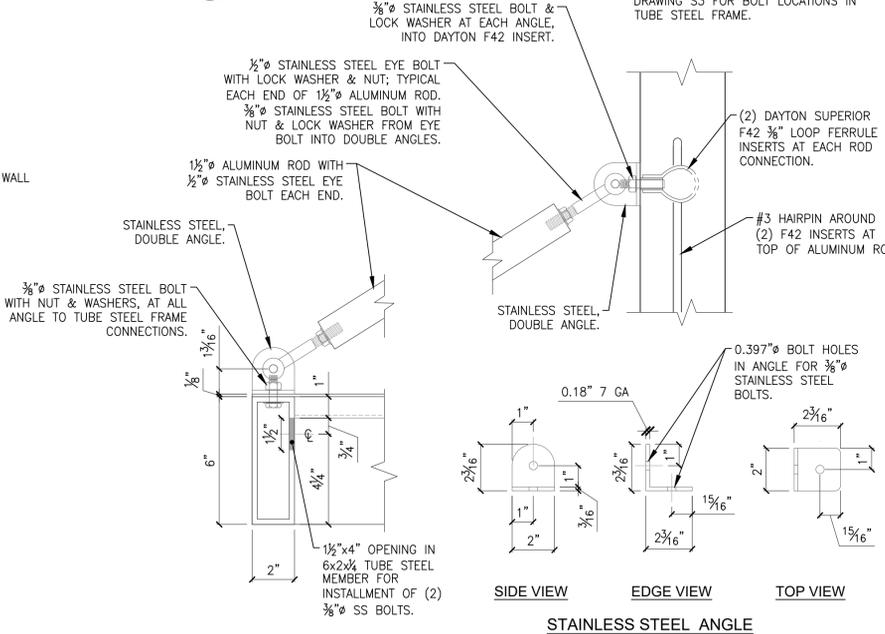
AWNING DECK PLAN
Scale: 1" = 1'-0" (24x36)



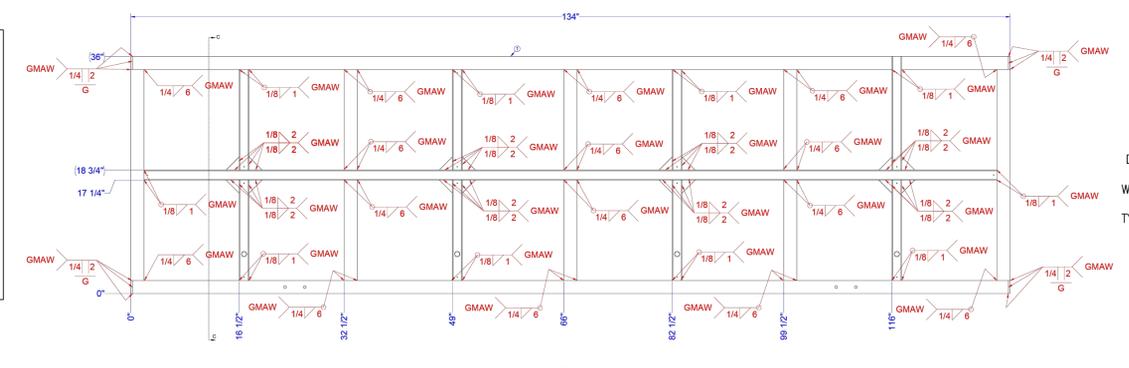
TOP UNIT WALL & AWNING ELEVATION
Scale: 1" = 1'-0" (24x36)
SEE DRAWING S3 FOR PRE-CAST TOP UNIT



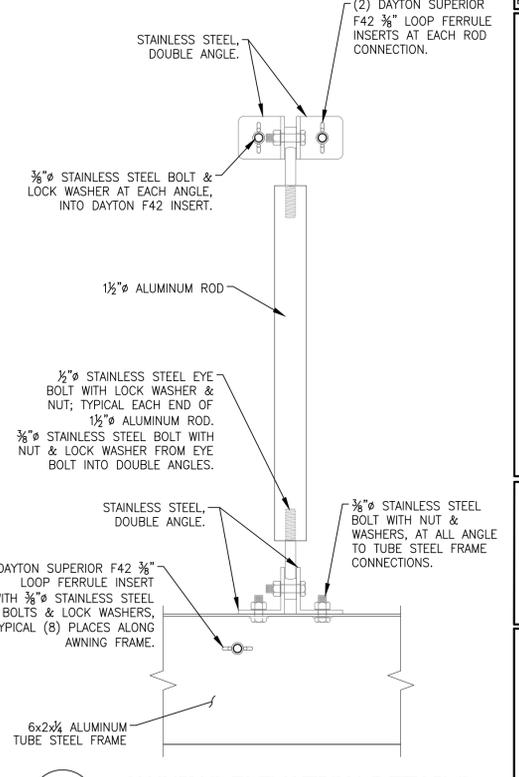
1 AWNING FRAME SECTION
Scale: 1 1/2" = 1'-0" (24x36)



A AWNING SECTION DETAILS
Scale: 3" = 1'-0" (24x36)



AWNING WELD MAP
Scale: N.T.S.



B AWNING ELEVATION DETAILS
Scale: 3" = 1'-0" (24x36)

AWNING FRAME NOTES:

ALUMINUM; TUBE STEEL; CHANNEL; PLATE; & ROD MEMBERS:

- 6x2 1/2 ALUMINUM TUBE STEEL MEMBERS TO BE 6061-T6 ALUMINUM. DEBURR & REMOVE SHARP EDGES. PROVIDE A FINISH FREE OF GRIT & OIL.
- PROVIDE A MITER OR STRAIGHT CUT ON ENDS OF PERIMETER RECTANGULAR TUBE STEEL MEMBERS & FULLY WELD ENDS WITH 1/8" FILLET WELD, OR V-GROOVE WELD AT 1/8" OR LARGER. ENDS CAPPED & WELDED ALL AROUND.
- FULLY WELD INTERIOR 6x2 1/2 ALUMINUM TUBE STEEL MEMBERS TO PERIMETER FRAME WITH 1/8" FILLET WELD.
- 1 1/2"x1"x 1/8" CHANNELS, & 1/2" GUSSET PLATES ARE TO BE 6061-T6 ALUMINUM. DEBURR & REMOVE SHARP EDGES. PROVIDE A FINISH FREE OF GRIT & OIL.
- FULLY WELD CHANNEL MEMBERS TO ALUMINUM TUBE STEEL MEMBERS WITH 1/8" FILLET WELD AT ALL POINTS OF CONNECTION.
- 1/4" THICK 6061-T6 ALUMINUM GUSSET PLATES TO BE PROVIDED AT THE INTERSECTION OF ALL CHANNEL MEMBERS. RIVET DECKING TO GUSSET PLATES AS SHOWN ON DECK PLAN. WELD GUSSET PLATES TO CHANNELS WITH 1/8" FILLET WELD ON BOTTOM SIDE OF GUSSET.
- ALL WELDING TO BE IN ACCORDANCE WITH AWS D1.2: 2008 STRUCTURAL WELDING CODE - ALUMINUM; & THE ALUMINUM DESIGN MANUAL 2010.
- ALUMINUM DECKING TO BE 1/2" THICK (8 GA. 0.125") 5052-H32 ALUMINUM. DEBURR & REMOVE SHARP EDGES. & PROVIDE A FINISH FREE OF GRIT & OIL.
- BLIND RIVETS SHALL BE: 18-8 STAINLESS STEEL 1/8" - 0.188"-0.312" HIGH STRENGTH BLIND RIVET. SS RIVETS TO HAVE A ULTIMATE TENSILE STRENGTH NO LESS THAN 600#; AND A ULTIMATE SHEAR STRENGTH NO LESS THAN 700# PER RIVET.
- 1 1/2" ALUMINUM ROD TO BE A SOLID 6061-T6 ALUMINUM ROD, WITH INTERNAL THREADING AT EACH END TO RECEIVE A 1/2" STAINLESS STEEL EYE BOLT.

STAINLESS STEEL; ANGLES & CONNECTION MEMBERS:

- STAINLESS STEEL EYE BOLT: TYPE 316 STAINLESS STEEL THREADED SOLID ROD END WITH 1/2"-13 THREAD; 1" OUTSIDE EYE; & 3/8" THRU HOLE, WITH TOTAL LENGTH OF 4 1/4". THIS EYE BOLT CONNECTOR TO BE LOCATED AT EACH END OF THE 1 1/2" ALUMINUM ROD. EYE BOLT ROD END SHALL HAVE A MINIMUM TENSILE STRENGTH OF 75ksi & MINIMUM YIELD STRENGTH OF 30ksi.
- DOUBLE ANGLES TO BE 304-2B STAINLESS STEEL, 7 GA THICKNESS WITH A MINIMUM TENSILE STRENGTH OF 73.2ksi & MINIMUM YIELD STRENGTH OF 31.2ksi.
- STAINLESS STEEL HEX HEAD BOLTS TO BE TYPE 304; GRADE B8; CLASS 1 STAINLESS STEEL AISI 304 CARBIDE SOLUTION TREATED, WITH MIN. TENSILE STRESS OF 75ksi & MINIMUM YIELD STRESS OF 30ksi. A194 GRADE 8 HEX NUTS & STAINLESS STEEL 304 FLAT & LOCK WASHERS TO BE USED AT ALL HEX HEAD BOLTS.
- STAINLESS STEEL WASHERS TO BE USED BOTH THE BOLT HEAD AND THE NUT. LOCK WASHERS TO BE USED UNDER THE NUT FOR ALL STAINLESS STEEL CONNECTIONS.
- BOLTED CONNECTIONS TO BE SNUG-TIGHT [TIGHTNESS REQUIRED TO BRING THE CONNECTED PILES INTO FIRM CONTACT].

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Polk County
Winter Haven, FL 33880

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PHONE: (303) 659-1573
FAX: (303) 659-1635
1177 S. 4th AVE.
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NELSON ENGINEERING
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PO Box 1599 | 430 South Cache St. | Jackson, WY 83001
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WATERMILL EXPRESS
WATER VENDING MACHINE

SHEET TITLE:
AWNING DETAILS

DATE: ORIGIN Date: JUNE 2019
DRAWN: CMH
CHECKED: DS
REVISIONS: SEE SCHEDULE ON SHEET S0
PROJECT NUMBER: 13-247-01
SHEET NUMBER: S4
OF 6 SHEETS

S:\Proj\2023\247-01 Watermill Express - 2023 Prototype Design\Structural Drawings\VM 500 TEC Code 2023-4 NITA cert 1 Base Issued.dwg 054 Awning Details.dwg - Aug 15 2025 10:29:46 am PLOTTED BY: hansen