

SACRIFICE PARK IMPROVEMENTS

PALM BAY, FLORIDA

DATE:
MARCH 20, 2024

PREPARED FOR:
CITY OF PALM BAY

SITE DATA:

1. GENERAL STATEMENT:

THIS PROJECT INCLUDES IMPROVEMENTS TO SACRIFICE PARK BY CREATING A UNIQUE SPACE FOR REFLECTION AND REMEMBRANCE TO HONOR TWO POLICE OFFICERS AND THEIR FELLOW BREVARD COUNTY LAW ENFORCEMENT OFFICER WHO HAVE DIED IN THE LINE OF DUTY. SOME OF THE IMPROVEMENTS INCLUDE THE CONSTRUCTION OF A NEW 15-FOOT TRIANGULAR MONUMENT, NEW SIDEWALKS, PAVERS, SITE LIGHTING, LANDSCAPING AND A NEW AMPHITHEATER .

2. CONTACT INFORMATION:

OWNER:

JULIET MISCONI, DEPUTY CITY MANAGER
GREG MINOR, PARKS AND FCAILITY DIRECTOR
CITY OF PALM BAY
120 MALABAR ROAD SE PALM BAY, FL
32907
TEL: (321) 952-3404

SURVEYOR:

CITY OF PALM BAY
120 MALABAR ROAD SE
PALM BAY, FL 32907
TEL: (321) 952-3404

CIVIL ENGINEER:

CONSTRUCTION ENGINEERING GROUP, LLC
DAVID TOM, PE
2651 W. EAU GALLIE BOULEVARD, SUITE A
MELBOURNE, FL 32935
TEL: (321) 610-1763
EMAIL: DTOM@CEENGINEERING.COM

LOCATION:

TOWNSHIP: 29
RANGE: 37
SECTION: 06
PARCEL ID: 29-37-06-GK-A
29-37-06-GK-A.1
TAX ACCOUNT NUMBER: 2925038
2959064

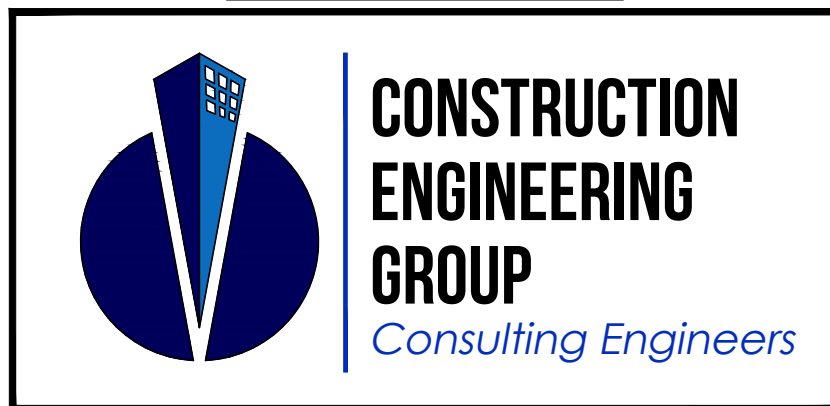
3. SITE CHARACTERISTICS:

TOTAL PROJECT ACREAGE: ±0.42 AC
ZONING CLASSIFICATIONS: IU
FUTURE LAND USE: PSP
FLOOD ZONE: 'X'

CALCULATED LOT COVERAGES

	SE	ACRES	PERCENT
PROPOSED IMPERVIOUS (AMPHITHEATER/MONUMENT)	2,667	0.06	15
PROPOSED IMPERVIOUS (ASPHALT/CONCRETE)	1,990	0.05	11
TOTAL IMPERVIOUS AREA	4,657	0.11	25
PROPOSED PERVIOUS AREA	13,657	0.31	75
TOTAL GROSS AREA	18,314	0.42	100

PREPARED BY:



LEGAL DESCRIPTION:

PORT MALABAR UNIT 10 TRACT A EXC ORB 3116 PG 4054, 3620 PG 2831
AND
PORT MALABAR UNIT 10 PART OF TRACT A AS DESC IN ORB 3116 PG 4054

CIVIL INDEX OF DRAWINGS:

G-1	CIVIL COVER SHEET
G-2	STORMWATER POLLUTION PREVENTION PLAN (SWPPP)
C-1	EXISTING CONDITIONS AND DEMOLITION PLAN
C-2	SITE PLAN
C-3	GRADING AND DRAINAGE PLAN
S0.0	STRUCTURAL COVER SHEET/GENERAL NOTES
S.10	PLAN/BUILDING SECTIONS
S2.0	DETAILS
E001	ELECTRICAL NOTES, SYMBOLS AND SCHEDULES
E101	SITE ELECTRICAL PLAN
E201	ELECTRICAL DEMOLITION PLAN
E301	ELECTRICAL NEW WORK PLAN
E302	PHOTOMETRIC PLAN
HS-1	HARDSCAPE SITE PLAN
HS-2	HARDSCAPE CALLOUT PLAN
HS-3	HARDSCAPE LAYOUT AND DIMENSIONS PLAN
HS-4	HARDSCAPE DETAILS
HS-5	HARDSCAPE DETAILS
LS-1	LANDSCAPE SITE PLAN
LS-2	LANDSCAPE DETAILS
LS-3	LANDSCAPE NOTES

CIVIL LEGEND:

DESCRIPTION	
BUILDING OR STRUCTURE	
CONCRETE SIDEWALK	
DEMOLITION	
PROJECT BOUNDARY	
SILT FENCE	
SPOT ELEVATION	
SWALE OR FLOW DIRECTION	

2651 Eau Gallie Blvd., Suite A
Melbourne, FL 32935
Tel: 321.253.1221
www.ceengineering.com
COA #008697



SACRIFICE PARK IMPROVEMENTS

THE CITY OF PALM BAY
120 MALABAR ROAD SE, PALM BAY, FL 32907
DRAWING TITLE
CIVIL COVER SHEET

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DAVID M. TOM, PE
PE # 58669

DATE

03/20/24

SCALE

NTS

PROJ. NO. :

210146

DESIGNED BY:

RJN

DRAWN BY:

NCW

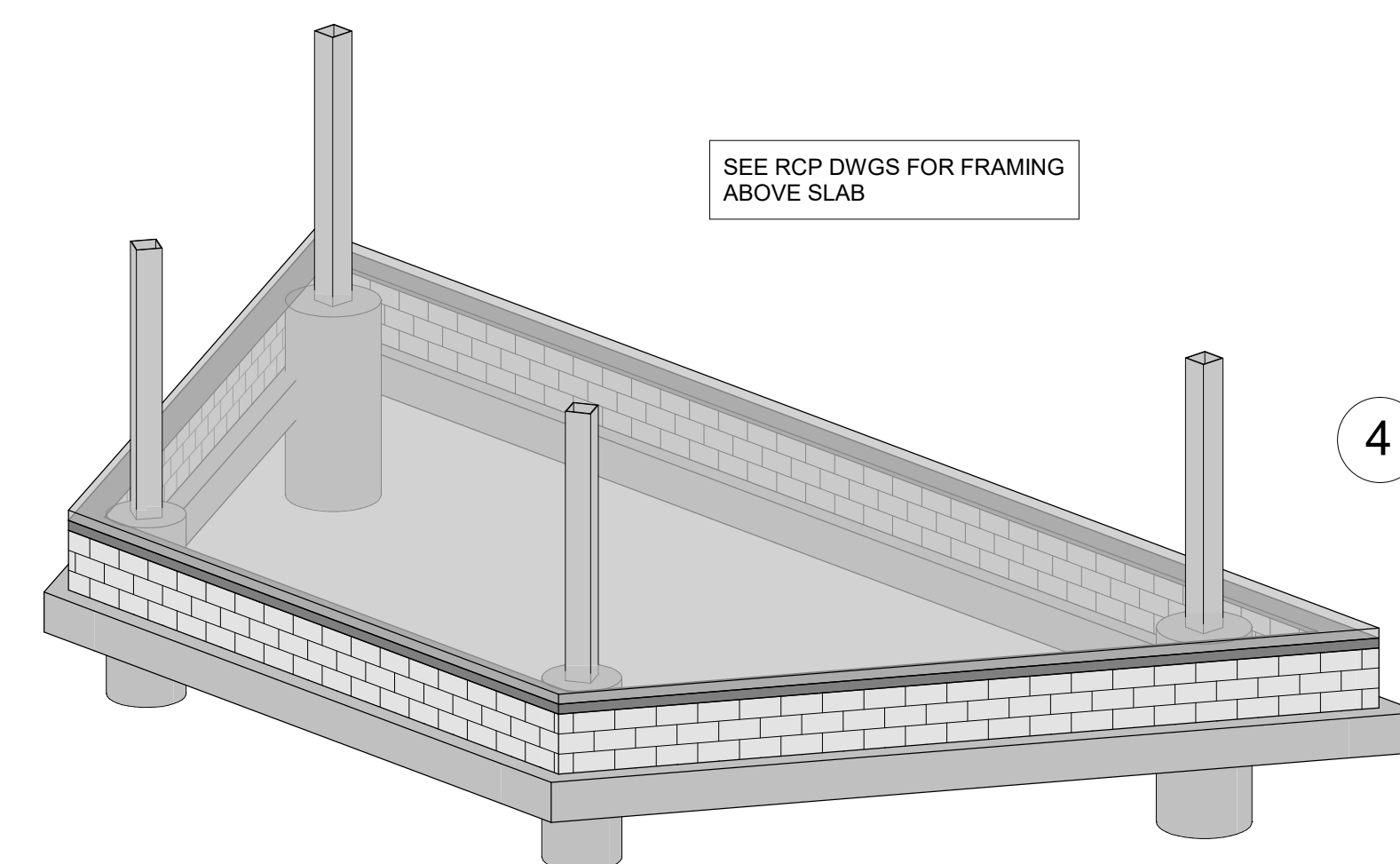
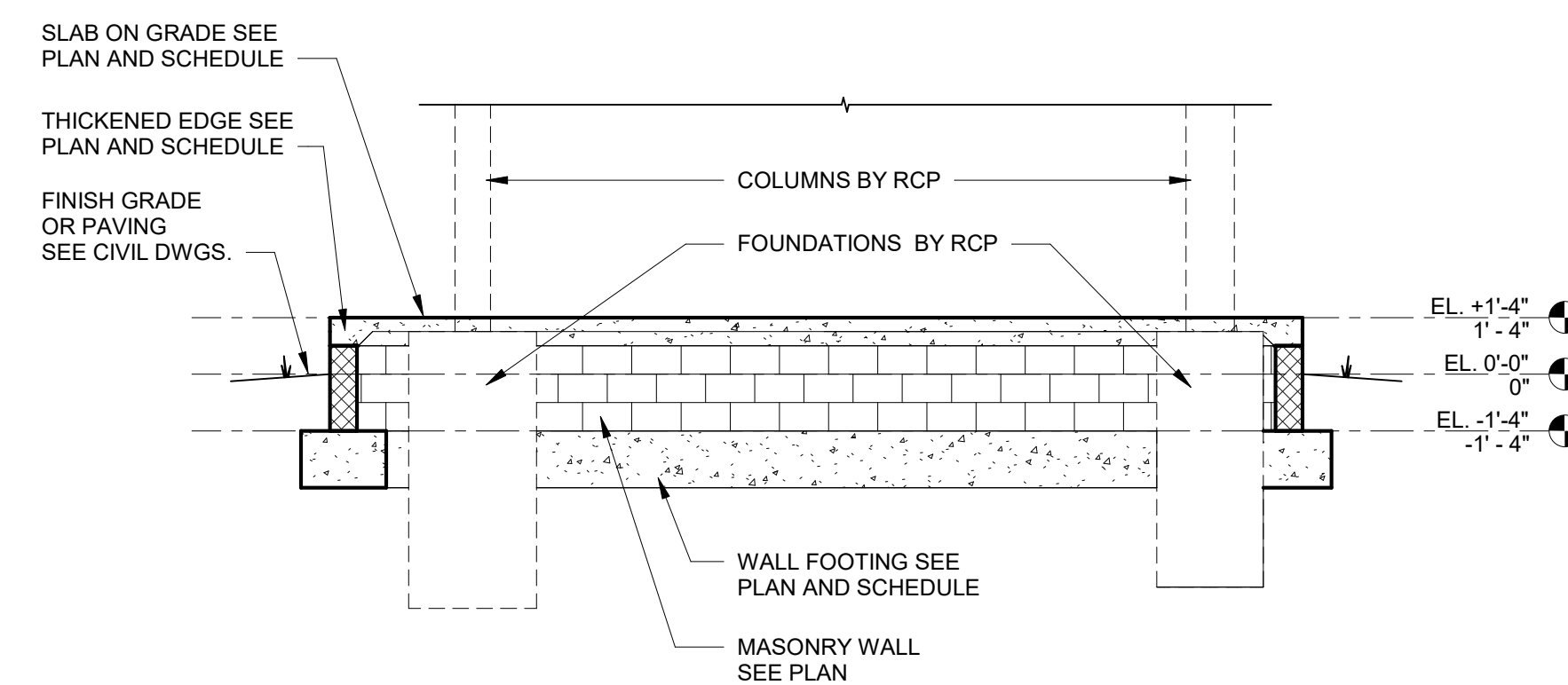
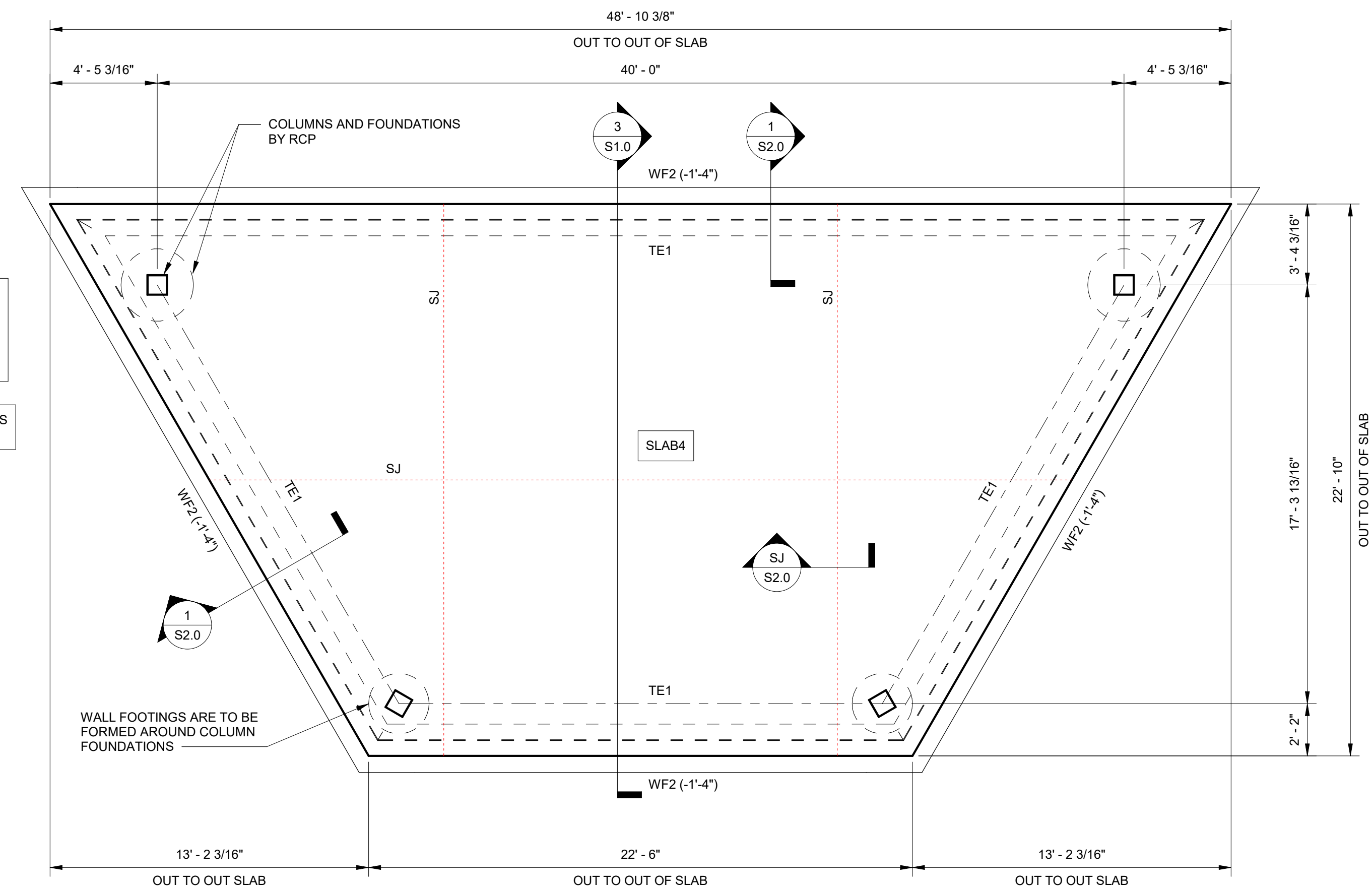
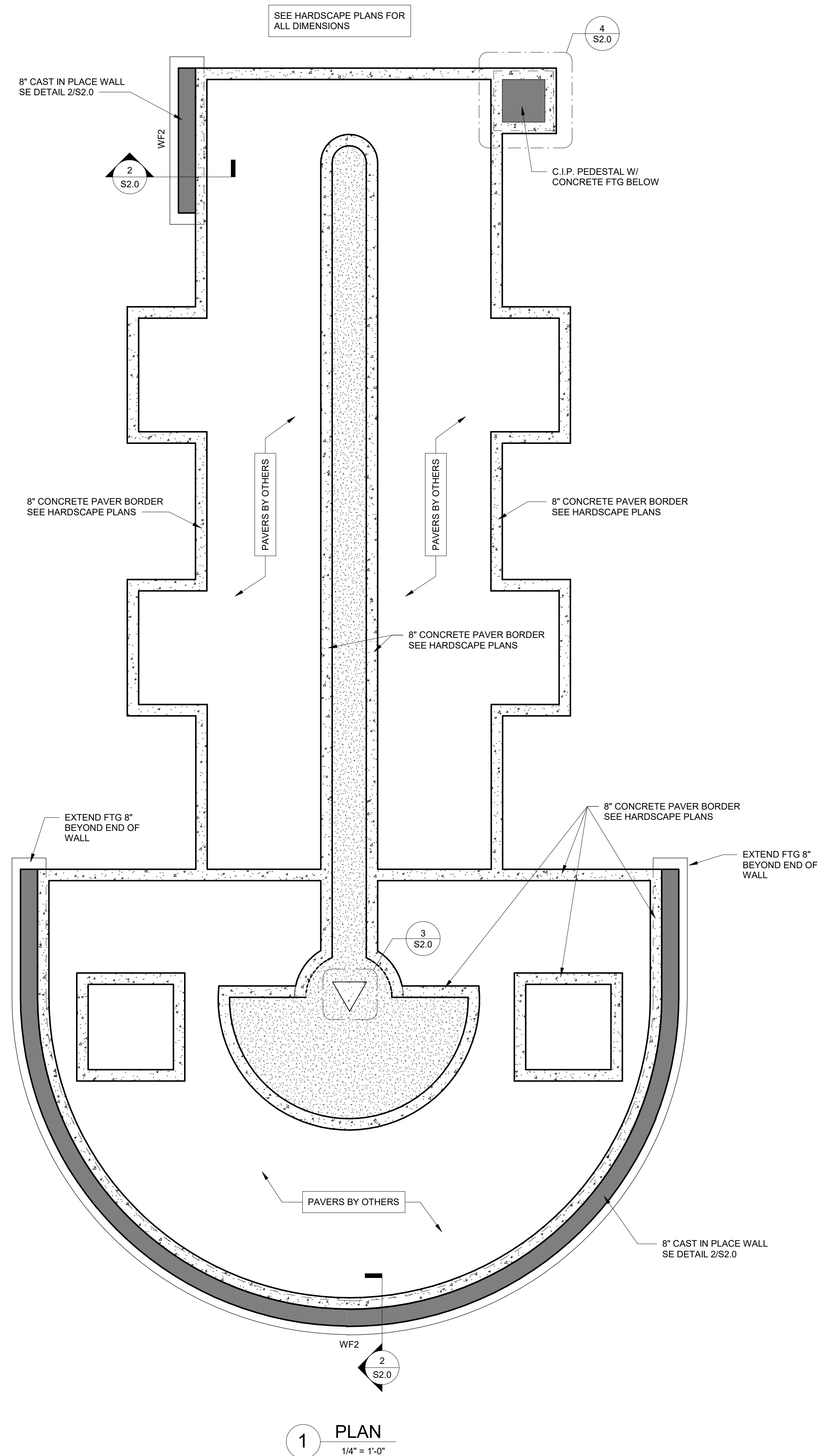
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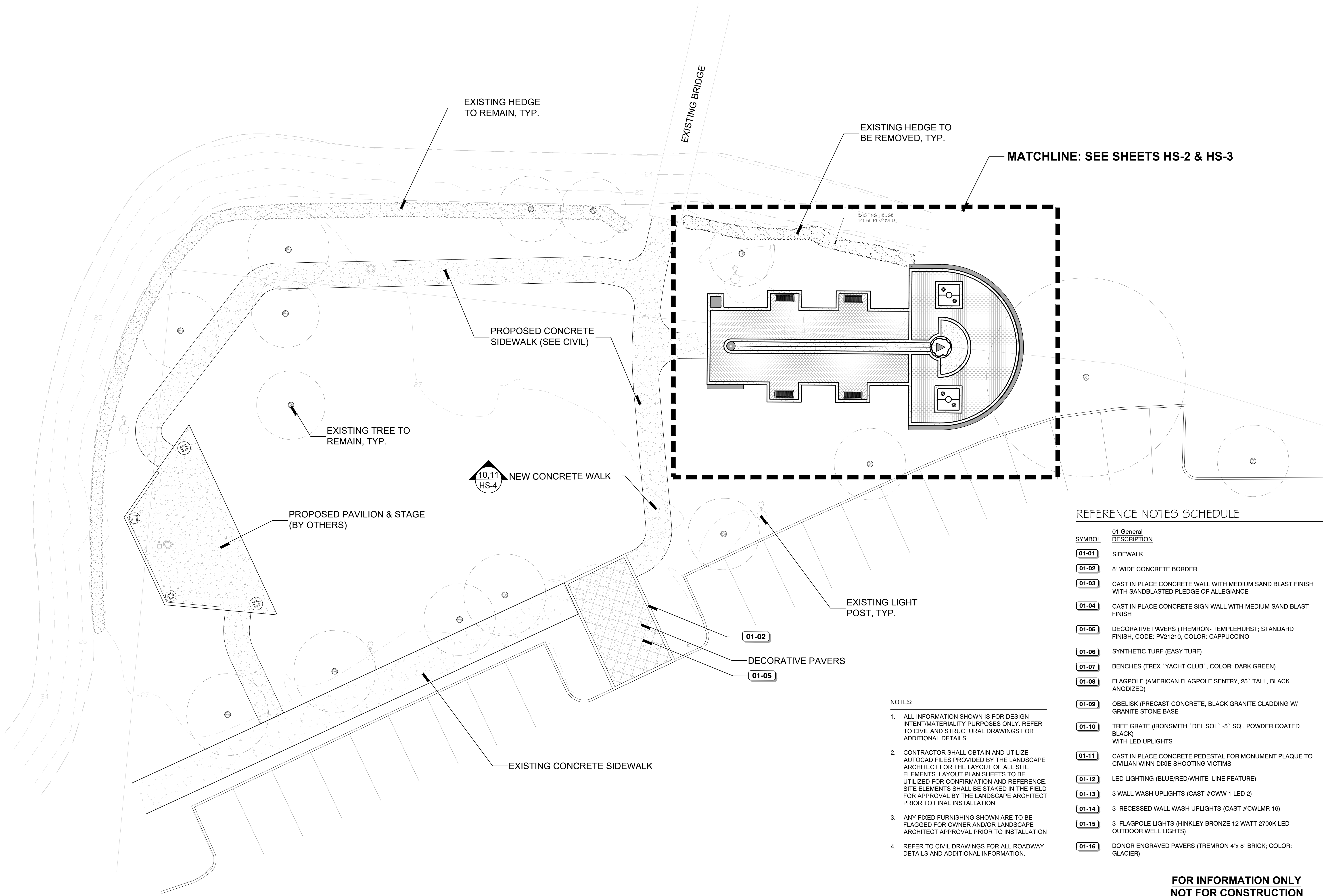
DMT

DRAWING NO.

G-1

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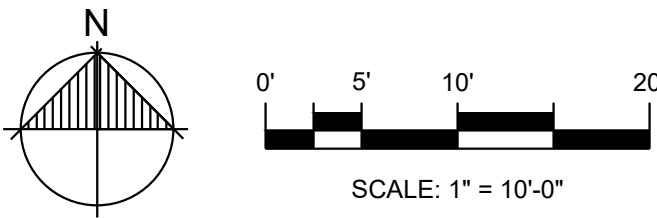


- NOTES:
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 - CONTRACTOR SHALL OBTAIN AND UTILIZE AUTOCAD FILES PROVIDED BY THE LANDSCAPE ARCHITECT FOR THE LAYOUT OF ALL SITE ELEMENTS. LAYOUT PLAN SHEETS TO BE UTILIZED FOR CONFIRMATION AND REFERENCE. SITE ELEMENTS SHALL BE STAKED IN THE FIELD FOR APPROVAL BY THE LANDSCAPE ARCHITECT PRIOR TO FINAL INSTALLATION
 - ANY FIXED FURNISHING SHOWN ARE TO BE FLAGGED FOR OWNER AND/OR LANDSCAPE ARCHITECT APPROVAL PRIOR TO INSTALLATION
 - REFER TO CIVIL DRAWINGS FOR ALL ROADWAY DETAILS AND ADDITIONAL INFORMATION.

REFERENCE NOTES SCHEDULE

SYMBOL	01 General DESCRIPTION
01-01	SIDEWALK
01-02	8" WIDE CONCRETE BORDER
01-03	CAST IN PLACE CONCRETE WALL WITH MEDIUM SAND BLAST FINISH WITH SANDBLASTED PLEDGE OF ALLEGIANCE
01-04	CAST IN PLACE CONCRETE SIGN WALL WITH MEDIUM SAND BLAST FINISH
01-05	DECORATIVE PAVERS (TREMIRON- TEMPLEHURST; STANDARD FINISH, CODE: PV21210, COLOR: CAPPUCCINO)
01-06	SYNTHETIC TURF (EASY TURF)
01-07	BENCHES (TREX 'YACHT CLUB', COLOR: DARK GREEN)
01-08	FLAGPOLE (AMERICAN FLAGPOLE SENTRY, 25' TALL, BLACK ANODIZED)
01-09	OBELISK (PRECAST CONCRETE, BLACK GRANITE CLADDING W/ GRANITE STONE BASE)
01-10	TREE GRATE (IRONSMITH 'DEL SOL' -5' SQ., POWDER COATED BLACK) WITH LED UPLIGHTS
01-11	CAST IN PLACE CONCRETE PEDESTAL FOR MONUMENT PLAQUE TO CIVILIAN WINN DIXIE SHOOTING VICTIMS
01-12	LED LIGHTING (BLUE/RED/WHITE LINE FEATURE)
01-13	3 WALL WASH UPLIGHTS (CAST #CWW 1 LED 2)
01-14	3- RECESSED WALL WASH UPLIGHTS (CAST #CWLMR 16)
01-15	3- FLAGPOLE LIGHTS (HINKLEY BRONZE 12 WATT 2700K LED OUTDOOR WELL LIGHTS)
01-16	DONOR ENGRAVED PAVERS (TREMIRON 4"x 8" BRICK; COLOR: GLACIER)

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Scale: 1"=10'-0"
Date: 06/07/24
Date Plotted: 8/8/24

Date	
Description	
No.	



SACRIFICE PARK
PALM BAY, FLORIDA
HARDSCAPE SITE PLAN

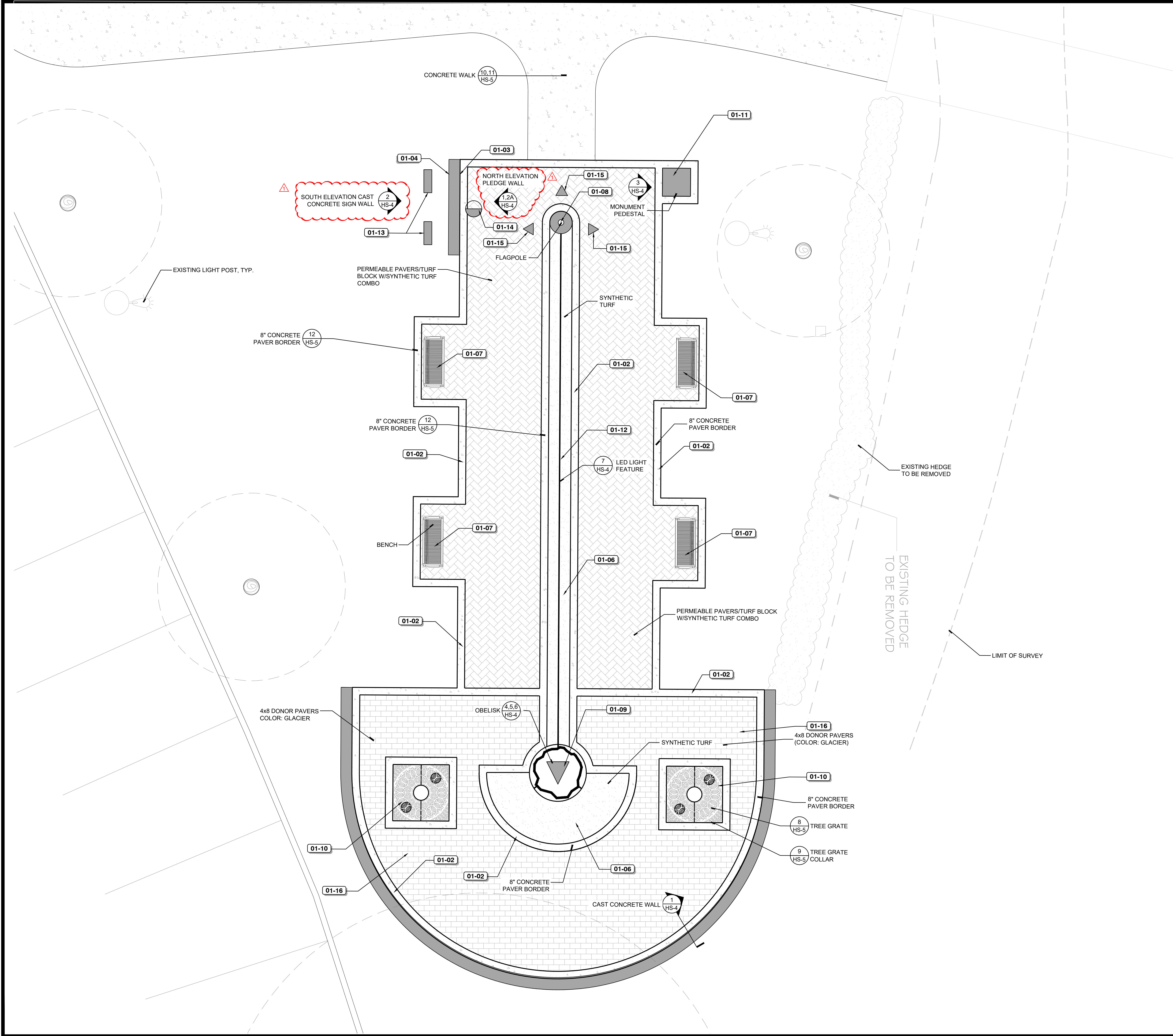
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Adam S. McCallister
LA #667264



Sheet Number
HS-1
1 of 5
Project #: XXX



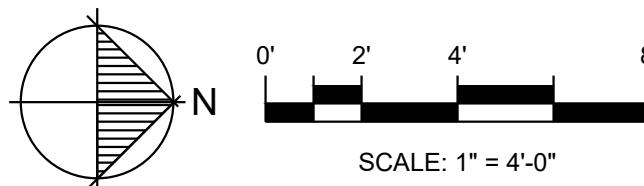
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Scale:1/4"=1'-0"

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Date Plotted: 8/8/24

Date	08/08/24
Description	CITY COMMENTS
No.	1



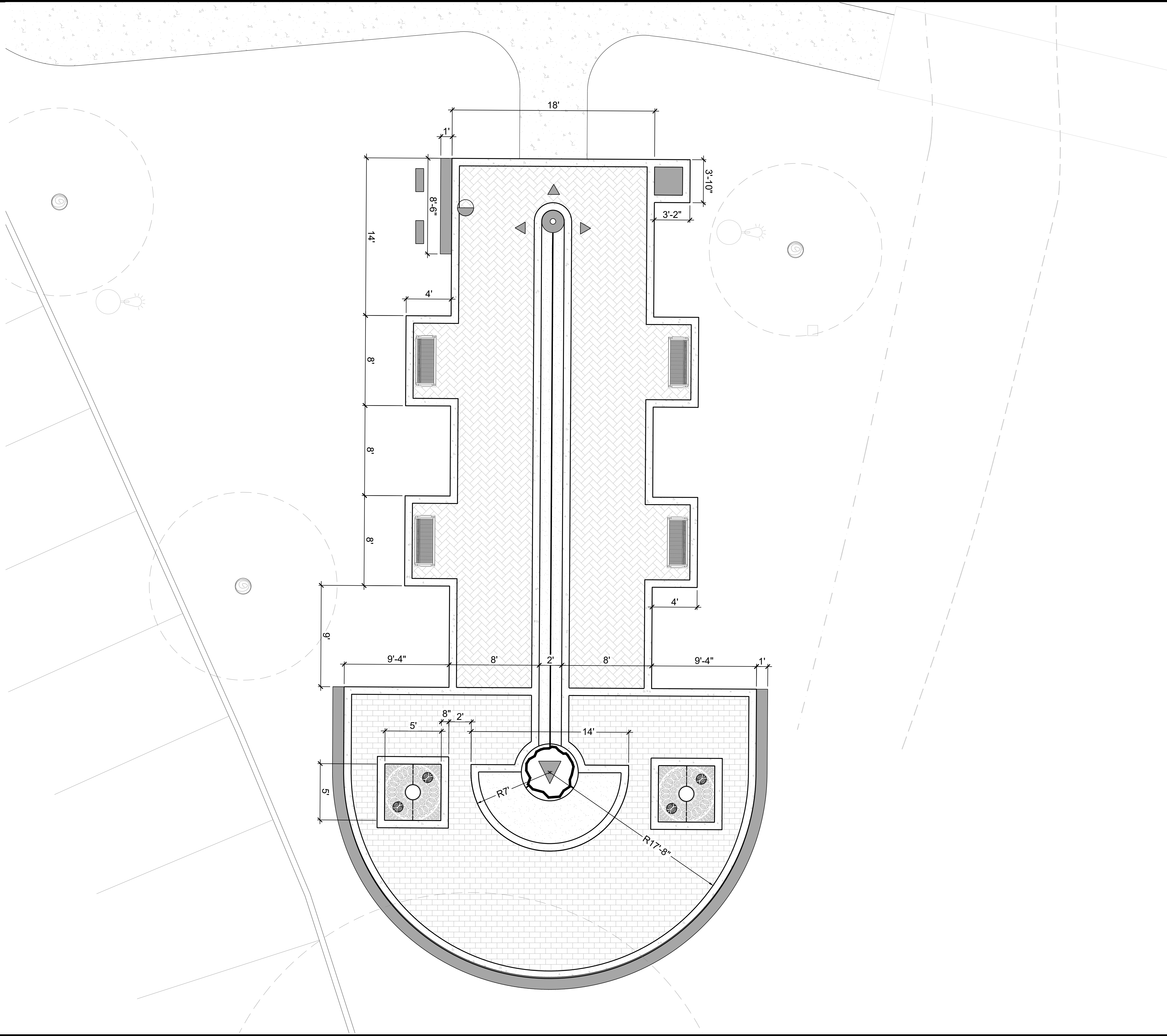
SACRIFICE PARK
PALM BAY, FLORIDA
HARDSCAPE CALLOUT PLAN
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2 of 5
Project #: XXX



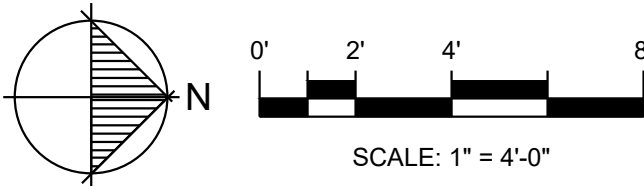
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Date: 06/07/24
Date Plotted: 8/8/24

Date									
Description									
No.									



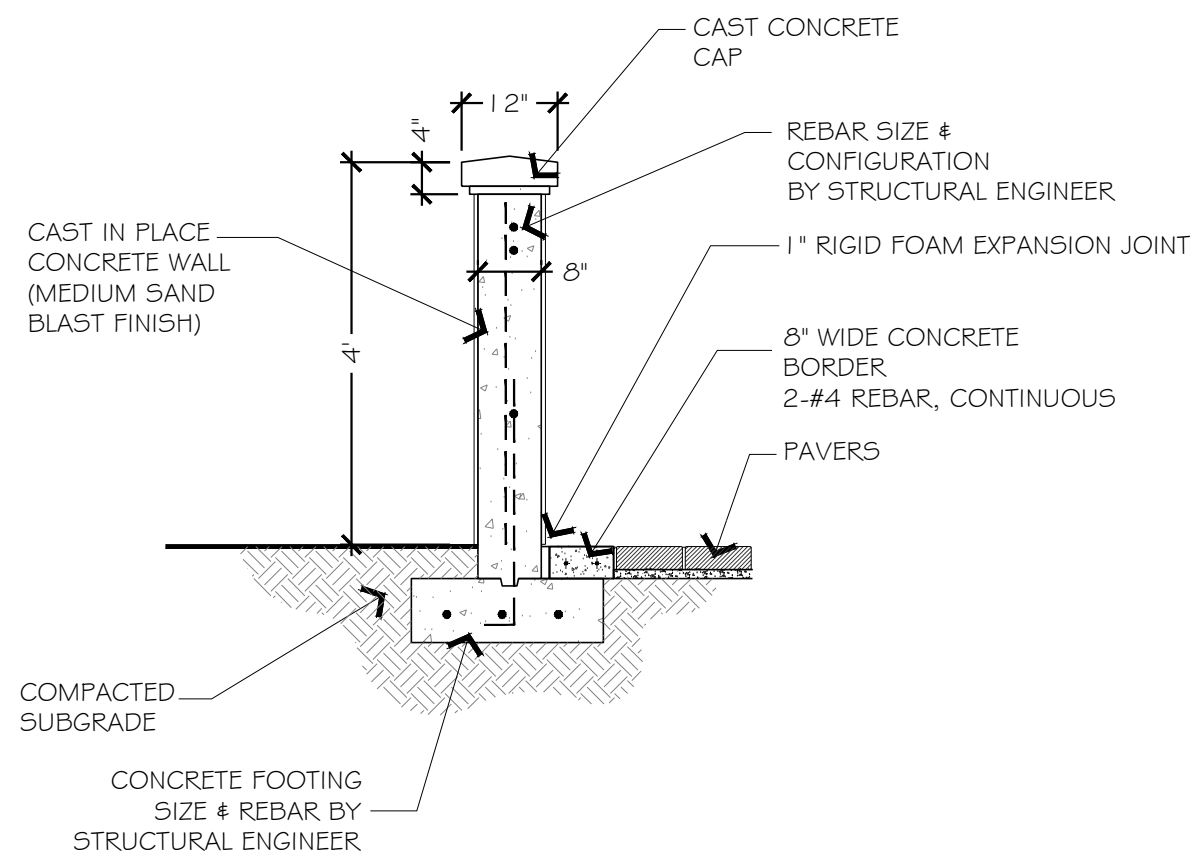
SACRIFICE PARK
PALM BAY, FLORIDA
HARDSCAPE LAYOUT & DIMENSIONS PLAN
"Enhancing Community through PLACE CREATION™"

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Registration:
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LA #6667264

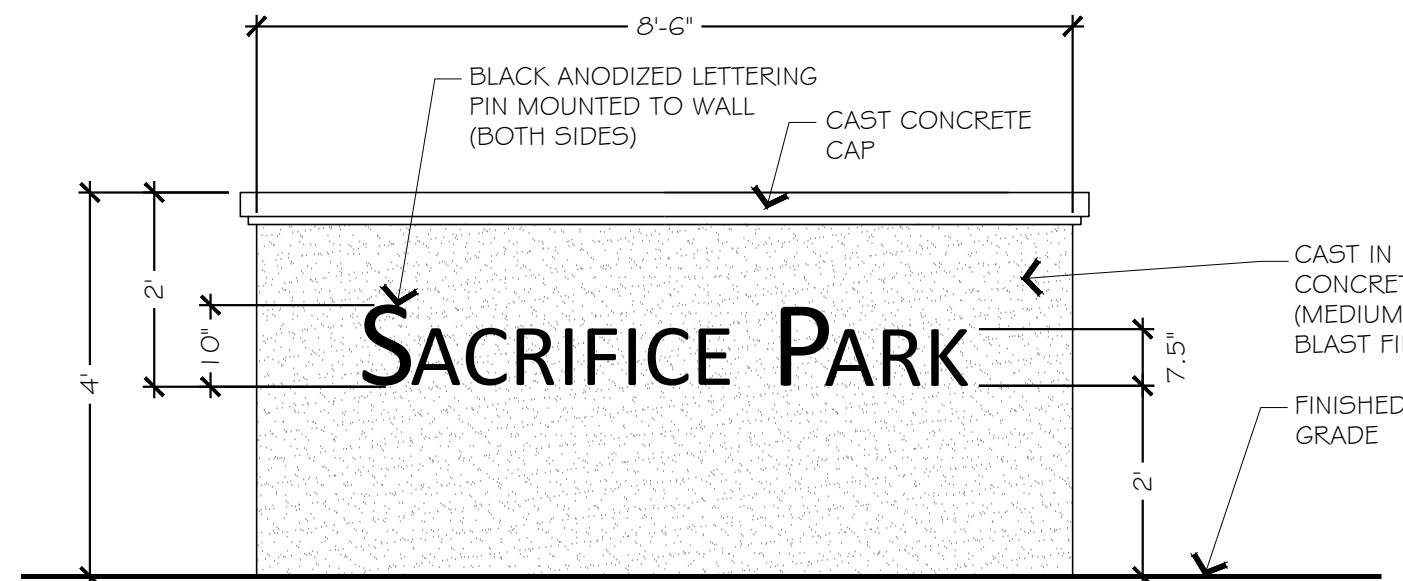


Sheet Number
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Project #: XXX



SECTION
CAST CONCRETE WALL

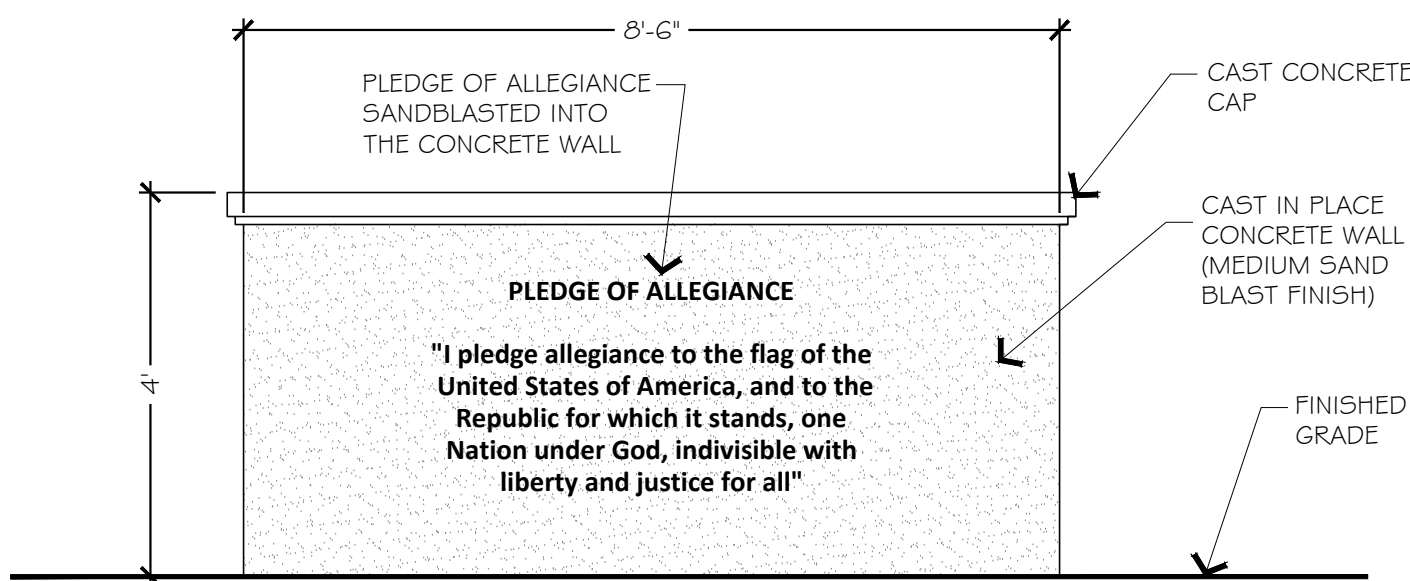
SCALE: 1/2"=1'-0"



SOUTH ELEVATION
CAST CONCRETE SIGN WALL

SEE ENGINEERING
STRUCTURAL DRAWINGS
FOR WALL/FOOTER DETAIL

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



NORTH ELEVATION (FLAG POLE SIDE)
PLEDGE WALL

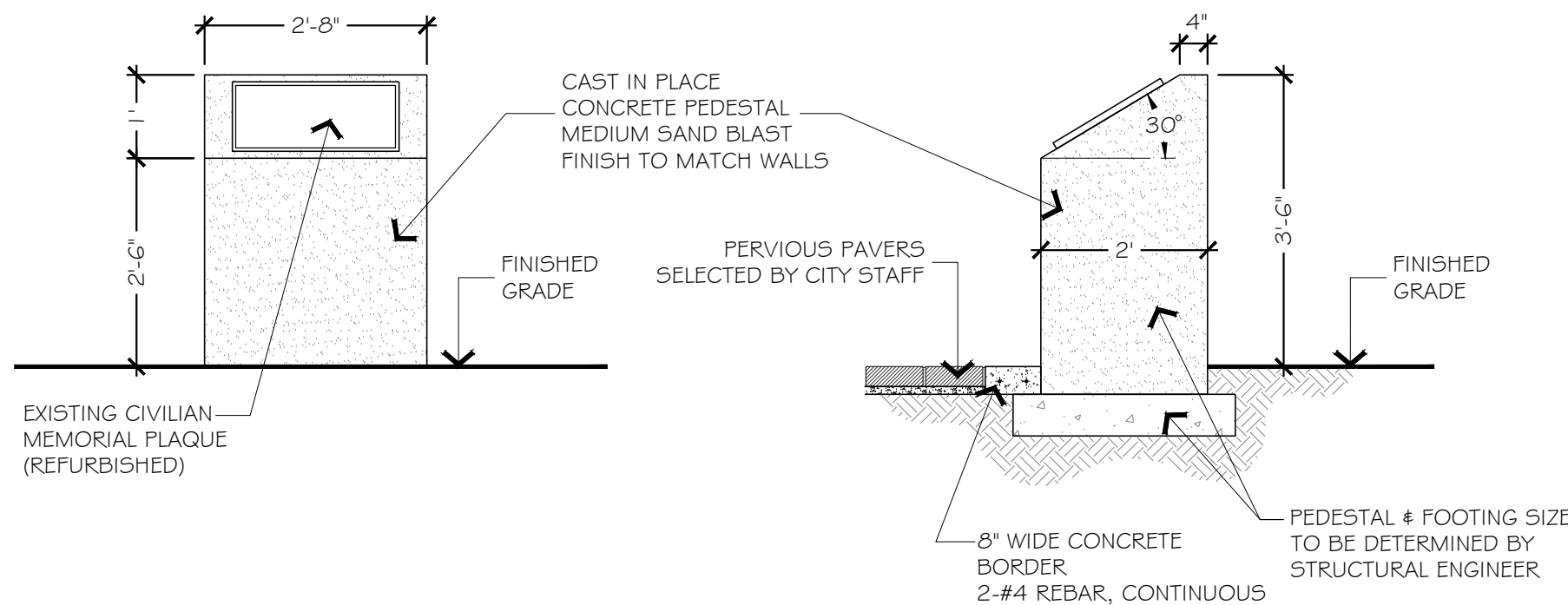
SEE ENGINEERING
STRUCTURAL DRAWINGS
FOR WALL/FOOTER DETAIL

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

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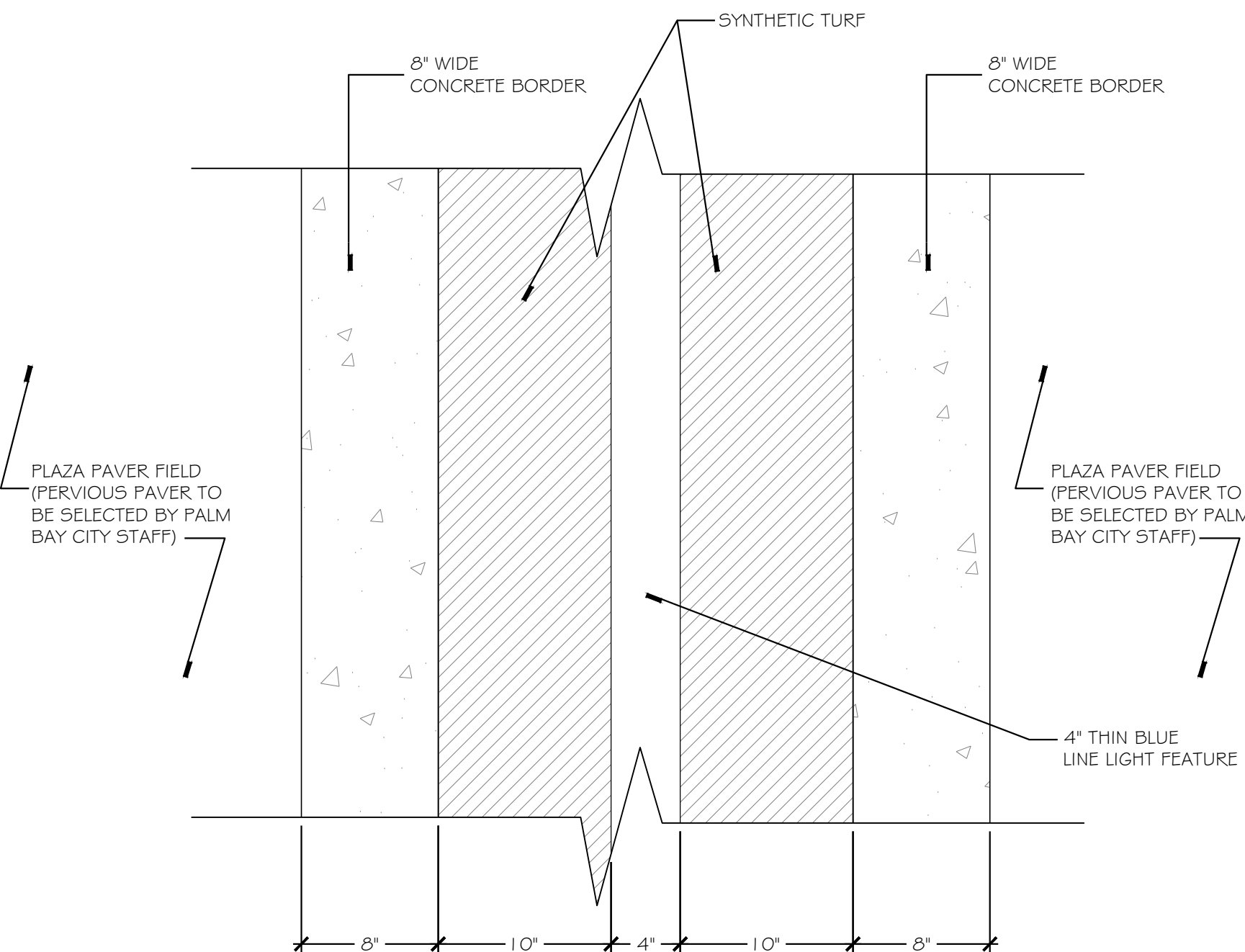
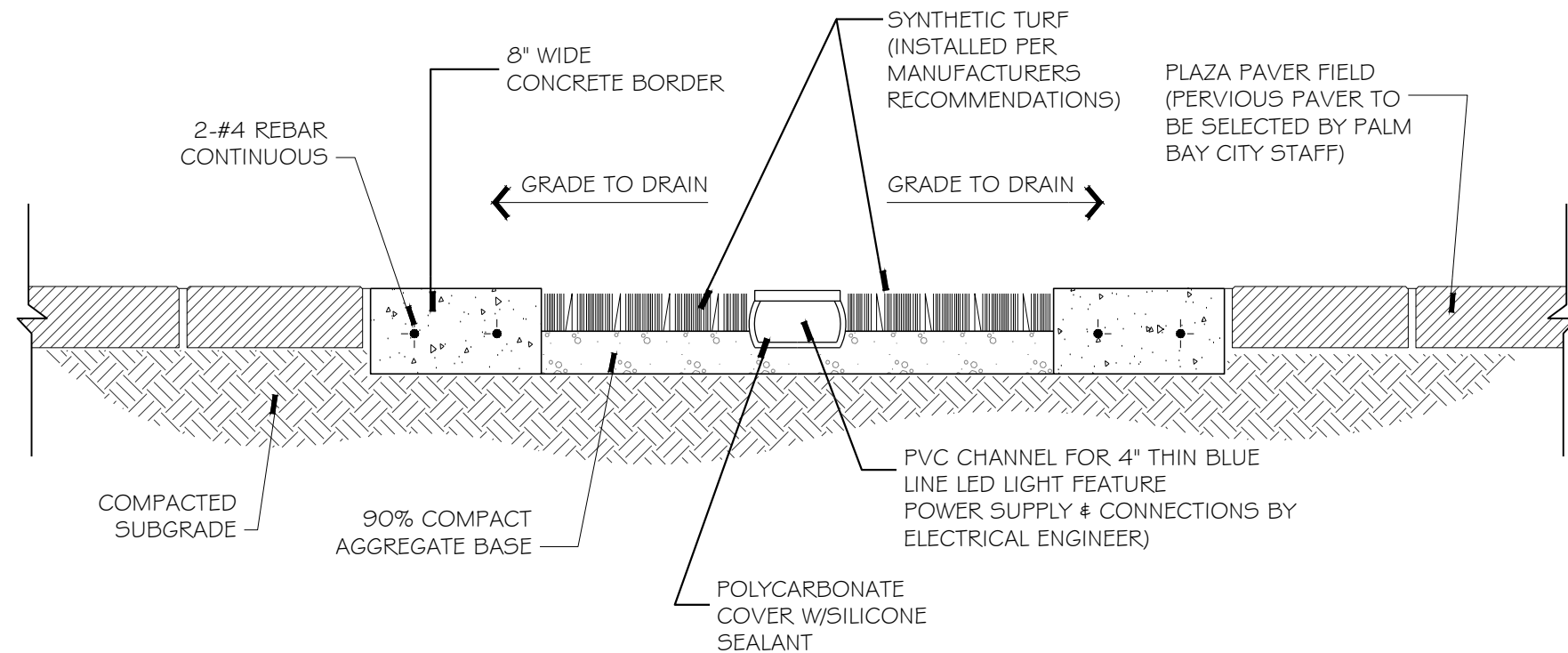
NOTES:

- INFORMATION IS SHOWN FOR DESIGN INTENT PURPOSES ONLY. SEE STRUCTURAL PLANS FOR DETAILS AND MEMBER SIZING.
- ALL DIMENSIONS TO BE FIELD VERIFIED PRIOR TO FABRICATION.
- CONTRACTOR TO SUBMIT SHOP DRAWINGS AND SAMPLES, INCLUDING FRAMING LAYOUT, TO LANDSCAPE ARCHITECT FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.
- WALL TO BE PAINTED WITH 2 COATS MIN.: SHERWIN WILLIAMS PAINT COLOR: TBD



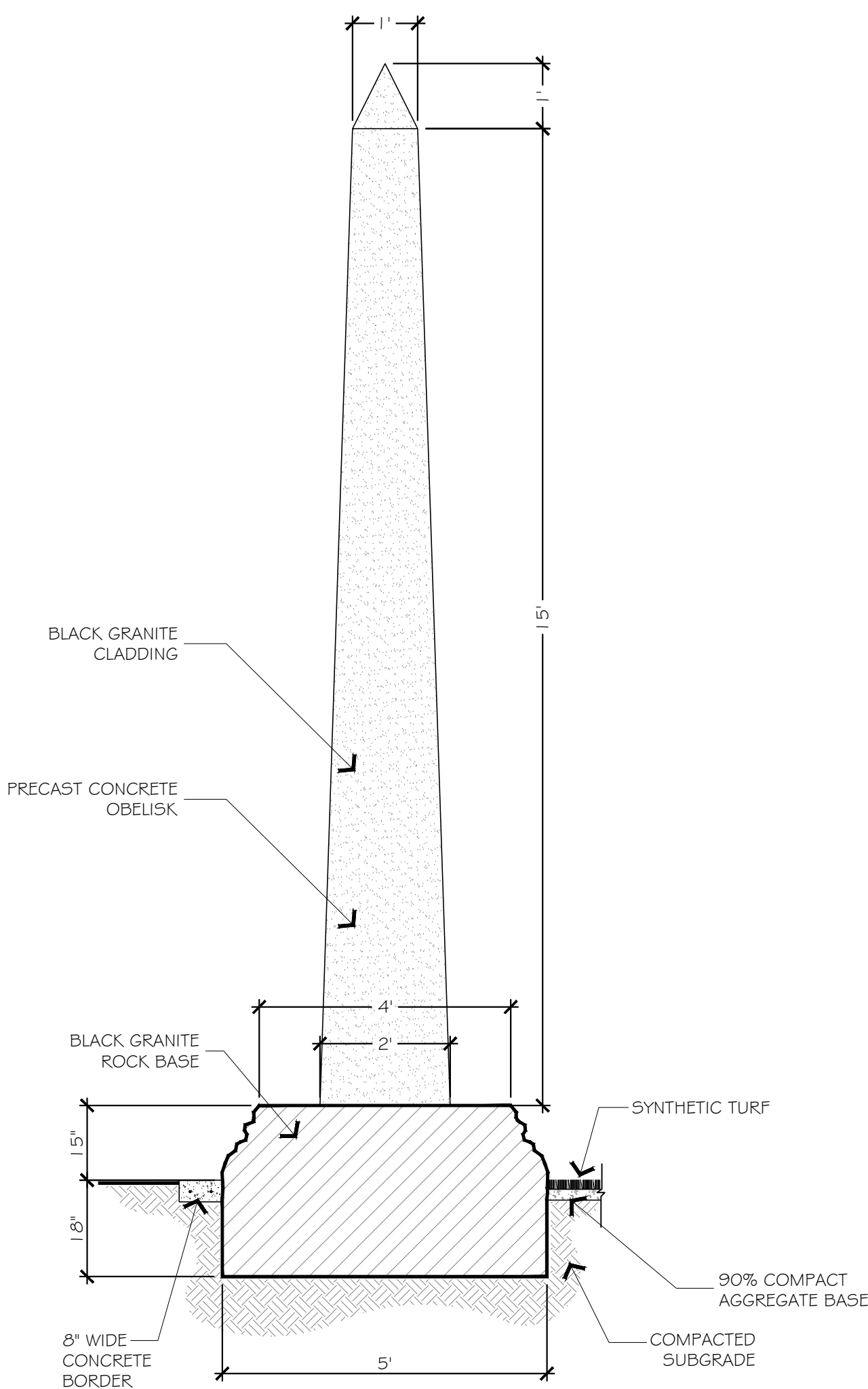
ELEVATION/SECTION
CIVILIAN MEMORIAL PLAQUE PEDESTAL

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



PLAN/SECTION
PLAZA THIN BLUE LINE LIGHT FEATURE

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

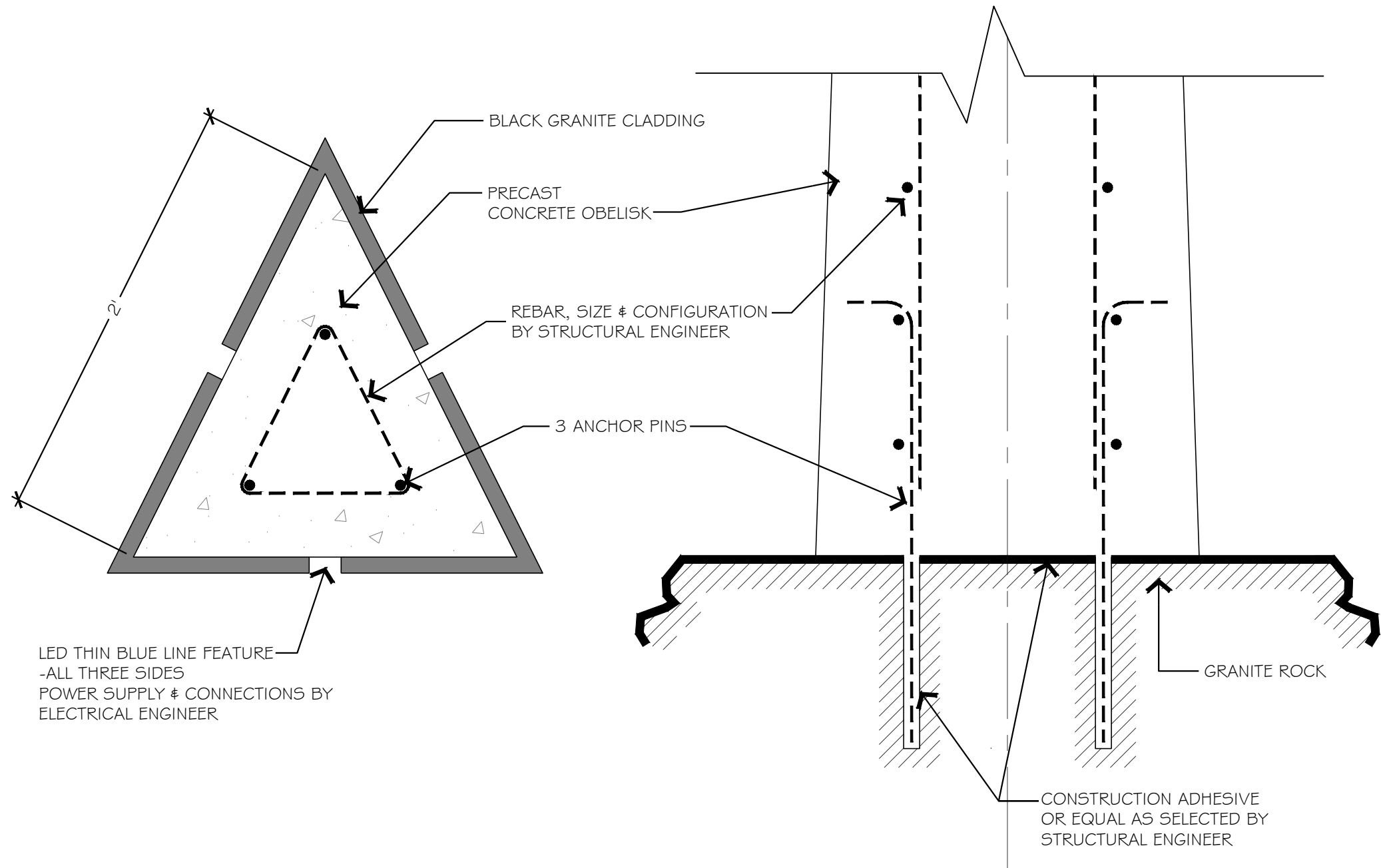


ELEVATION
PRE CAST OBELISK/GRANITE ROCK BASE

PROVIDE ELECTRICAL
CONDUIT

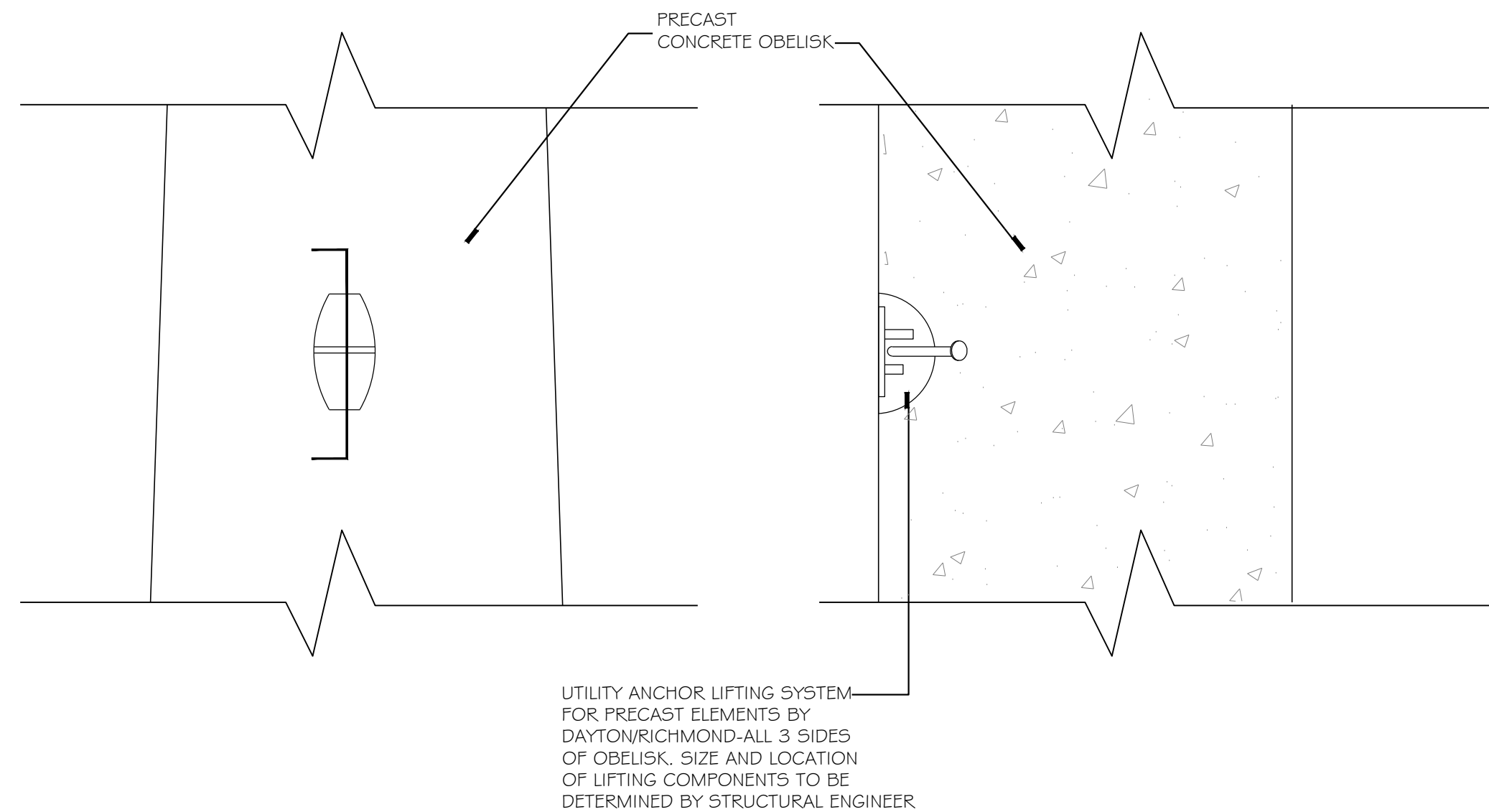
FOOTING/REBAR TO BE
DETERMINED BY
STRUCTURAL ENGINEER

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



PLAN/SECTION
OBELISK BASE ANCHOR PIN PLAN

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



PLAN/SECTION
OBELISK ANCHOR LIFTING SYSTEM

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

Scale: AS SHOWN

Date: 06/07/2024

Date Plotted: 8/8/24

Date	
Description	
No.	



SACRIFICE PARK
PALM BAY, FLORIDA
HARDSCAPE DETAILS
"Enhancing Community through PLACE CREATION™"

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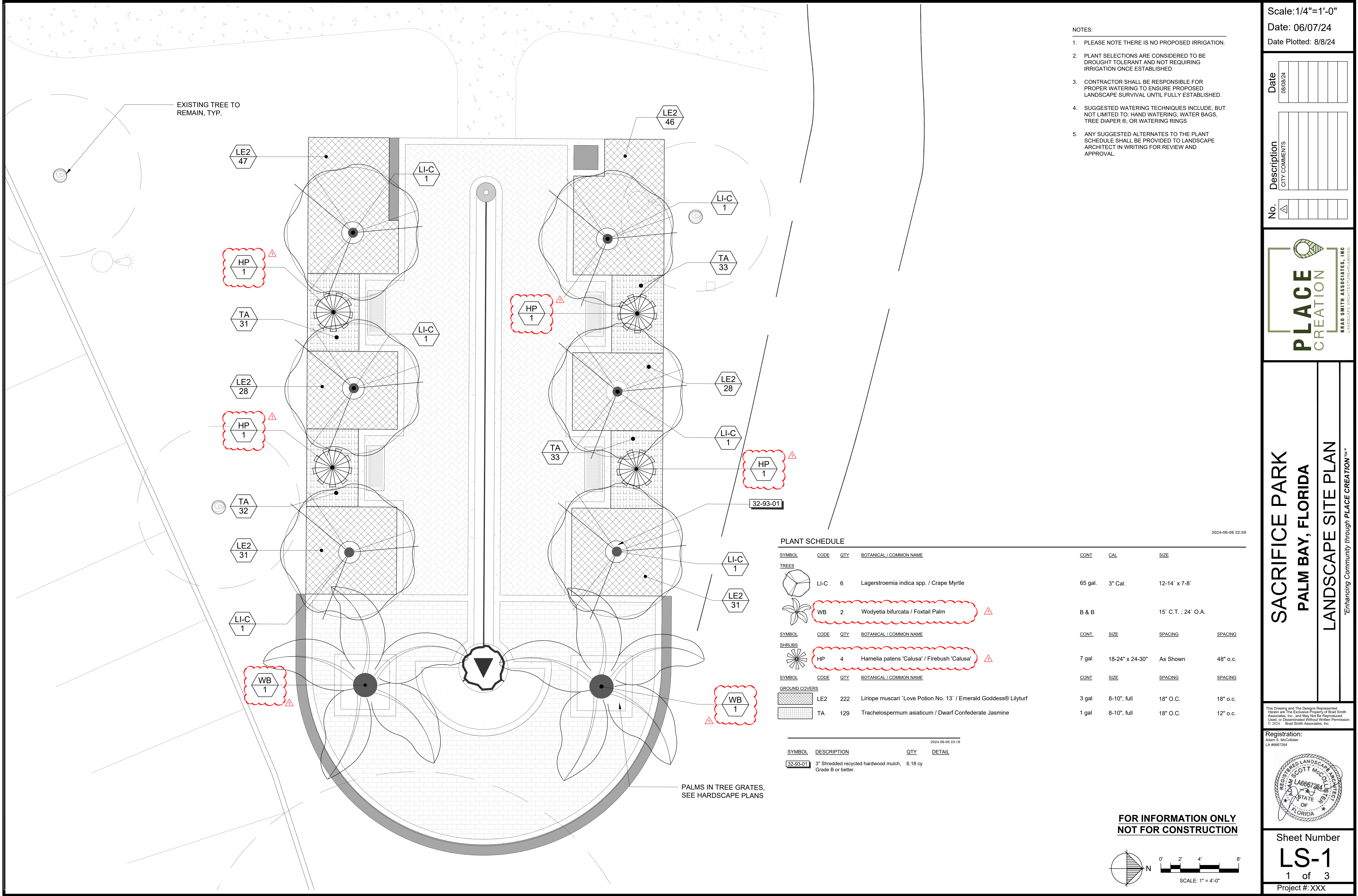


Sheet Number

HS-4

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Project #: XXX



EXISTING TREE TO REMAIN, TYP.

PALMS IN TREE GRATES, SEE HARDSCAPE PLANS

PLANT SCHEDULE

SYMBOL	CODE	QTY	BOTANICAL / COMMON NAME	CONT	CAL	SIZE
TREES						
	LI-C	6	Lagerstroemia indica spp. / Crape Myrtle	65 gal.	3" Cal.	12-14' x 7-8'
	WB	2	Wodyetia bifurcata / Foxtail Palm	B & B		15' C.T. ; 24' O.A.
SHRUBS						
	HP	4	Hamelia patens 'Calusa' / Firebush 'Calusa'	7 gal	18-24" x 24-30"	As Shown 48" o.c.
GROUND COVERS						
	LE2	222	Liriope muscari 'Love Potion No. 13' / Emerald Goddess® Lilyturf	3 gal	8-10", full	18" O.C. 18" o.c.
	TA	129	Trachelospermum asiaticum / Dwarf Confederate Jasmine	1 gal	8-10", full	18" O.C. 12" o.c.

SYMBOL	DESCRIPTION	QTY	DETAIL
32-93-01	3" Shredded recycled hardwood mulch, Grade B or better.	6.18 cy	

- NOTES:
- PLEASE NOTE THERE IS NO PROPOSED IRRIGATION.
 - PLANT SELECTIONS ARE CONSIDERED TO BE DROUGHT TOLERANT AND NOT REQUIRING IRRIGATION ONCE ESTABLISHED.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER WATERING TO ENSURE PROPOSED LANDSCAPE SURVIVAL UNTIL FULLY ESTABLISHED.
 - SUGGESTED WATERING TECHNIQUES INCLUDE, BUT NOT LIMITED TO: HAND WATERING, WATER BAGS, TREE DIAPER®, OR WATERING RINGS
 - ANY SUGGESTED ALTERNATES TO THE PLANT SCHEDULE SHALL BE PROVIDED TO LANDSCAPE ARCHITECT IN WRITING FOR REVIEW AND APPROVAL.

Scale: 1/4"=1'-0"
Date: 06/07/24
Date Plotted: 8/8/24

Date	08/08/24
Description	CITY COMMENTS
No.	

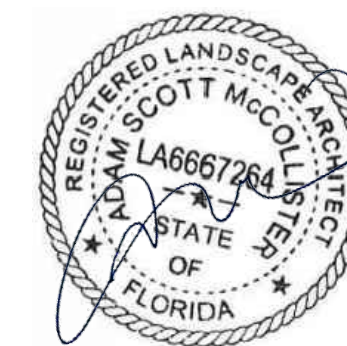


SACRIFICE PARK PALM BAY, FLORIDA LANDSCAPE SITE PLAN

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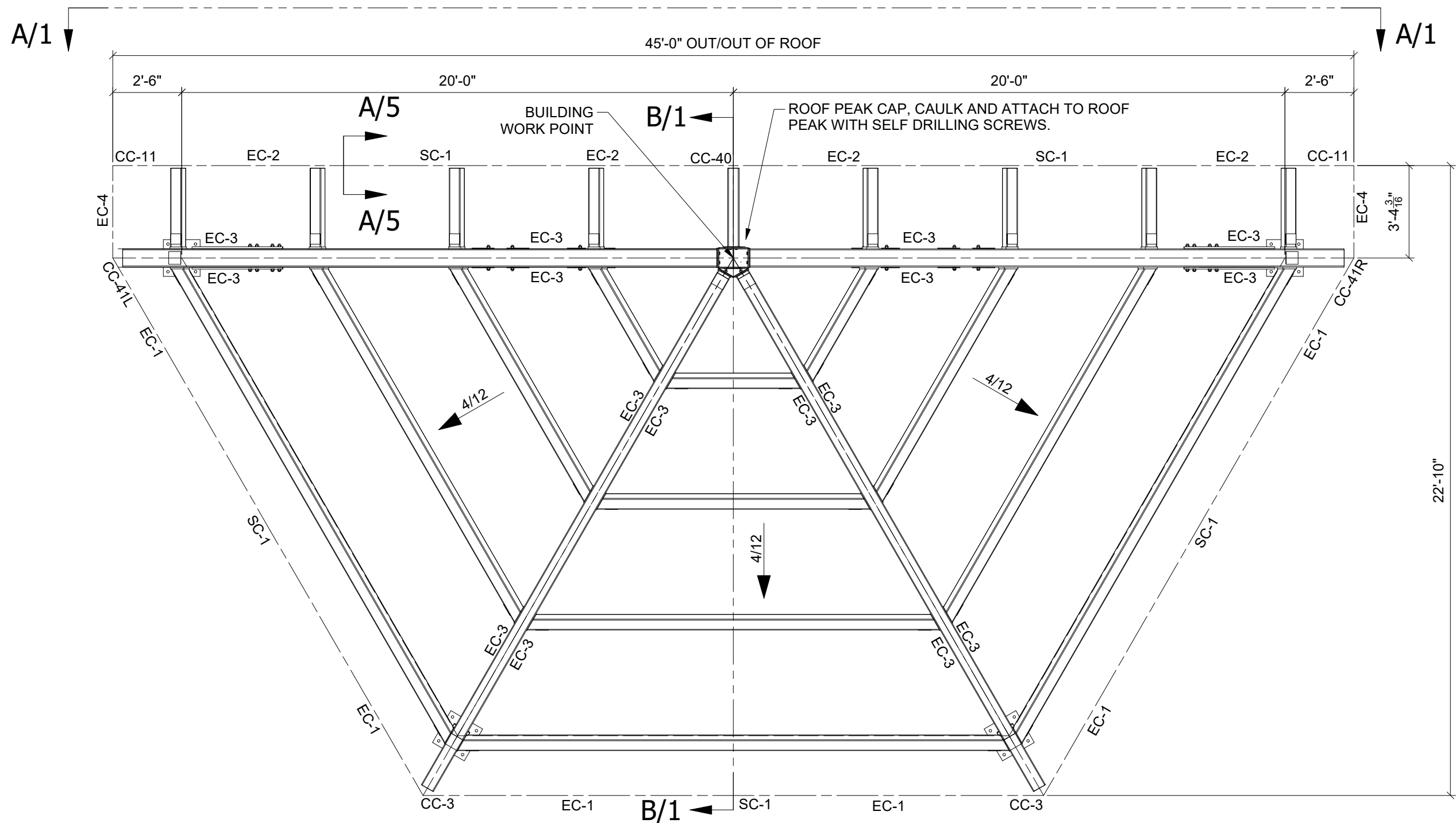
Registration:
Adam S. McCallister
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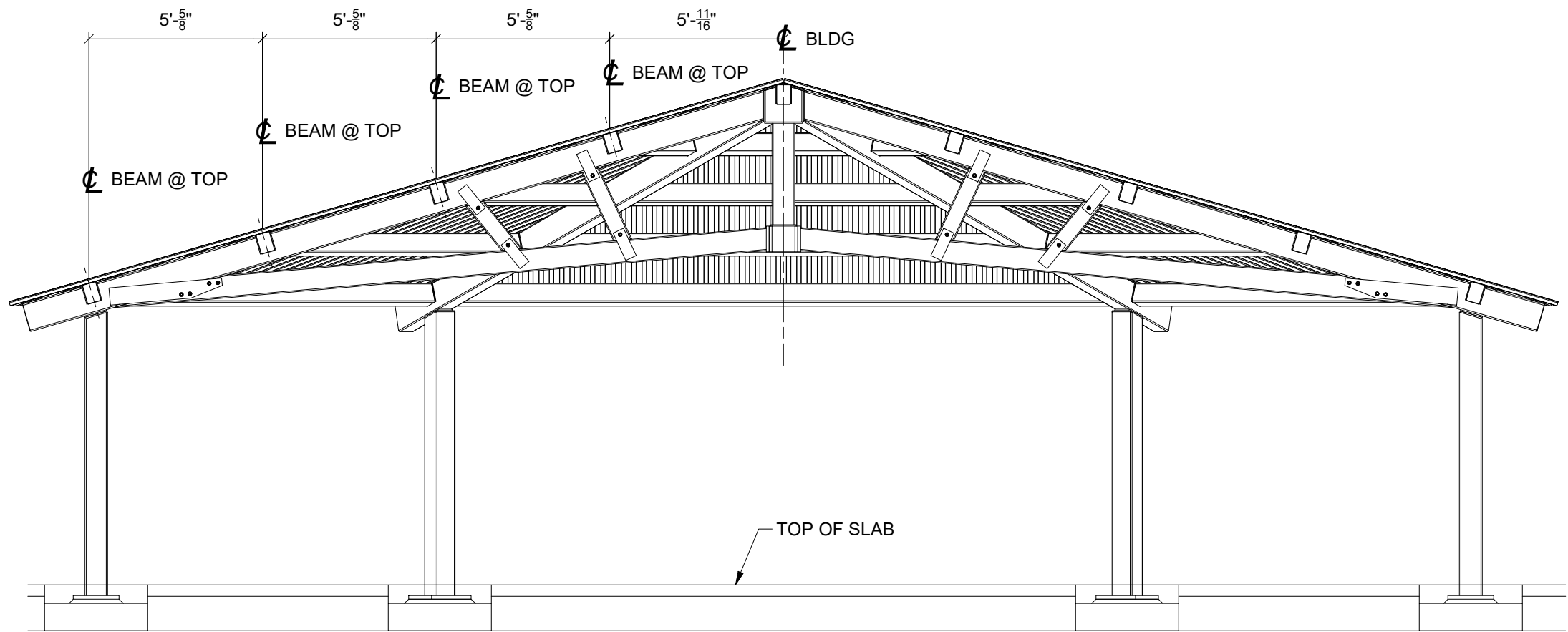


Sheet Number
LS-1
1 of 3
Project #: XXX

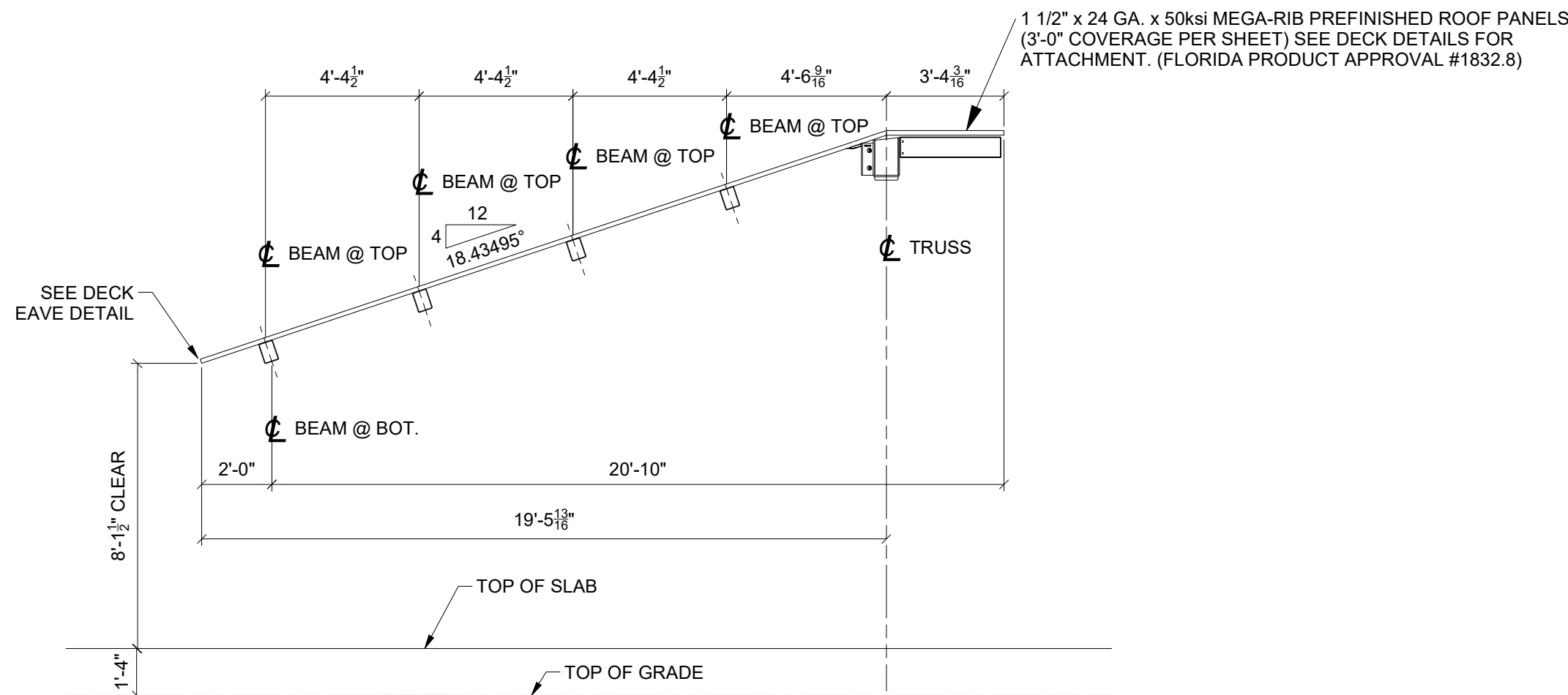


ROOF FRAMING PLAN

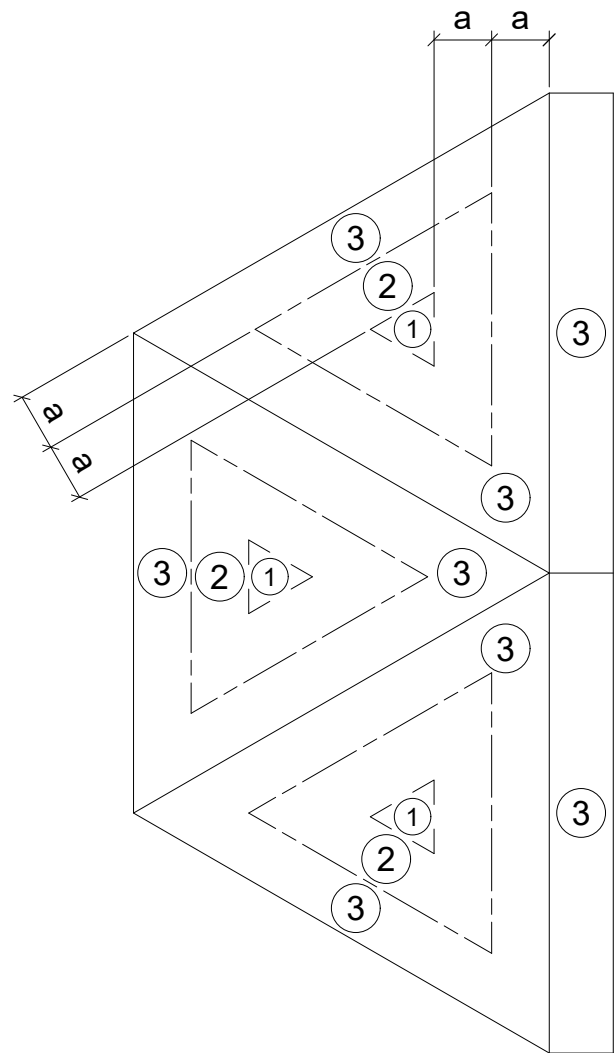
ERECTOR NOTE:
SEE METAL DECK DETAILS FOR
ATTACHMENT OF CAP/TRIM PIECES



SECTION A/1



SECTION B/1



ROOF PLAN

a = 3'-0"

ULTIMATE PRESSURES FOR COMPONENTS & CLADDING

ZONE	PRESSURE	SUCTION	AREA
1	47.0 PSF	48.3 PSF	ALL
2	70.6 PSF	73.7 PSF	≤ 36 ft ²
2	47.0 PSF	48.3 PSF	> 36 ft ²
3	94.1 PSF	96.7 PSF	≤ 9 ft ²
3	70.6 PSF	73.7 PSF	> 9 ft ² , ≤ 36 ft ²
3	47.0 PSF	48.3 PSF	> 36 ft ²

CONTRACT NOTE:
Reference accepted proposal and/or executed contract for identification of items furnished. Any item not specifically included shall be provided by owner, installer or others. Some items are specifically noted as N.I.C. (not in contract).

STEEL & HARDWARE SHOP NOTES:

- All steel plate to be ASTM A572 Grade 50.
- Steel tubes to be ASTM A500 Grade C.
- All welding is to be done in accordance with latest AWS standards. If welds are not specified, all welds are to develop full strength of all component parts.
- All bolts to be ASTM F3125 Grade A325 Type 1. Exception: All bolts smaller than 1/2"ø to be A307A. Anchor bolts as noted.
- All threaded rods to be ASTM A193 Grade B7.
- All nuts to be ASTM A563DH except as noted. At F1554 Gr. 36 anchor bolts and A307A bolts, nuts to be ASTM A563A.
- All fabricated steel to be powder coated; color selected by owner.
- Hardware (bolts, nuts, washers, etc.) to be hot-dipped galvanized (HDG). Shop to verify hole tolerances and tolerances of threaded parts for compatibility of the galvanized parts only.

ERECTION NOTES:

All members must be properly braced until the complete structural system has been constructed. Correction of minor misfits and a reasonable amount of reaming or alignment with drift pins will be considered a legitimate expense of erection.

In the event of error, defect in materials, and/or workmanship of shop work which prevents proper assembling and fitting up of parts by the moderate use of drift pins, or reaming, immediately report to the seller and obtain seller's approval of the method of correction.

Bolts are to be snug tight. Torque measurement is not required.

NOTE: This building has been designed as a free standing, open structure. If walls are to be added, or if the building is to adjoin another structure, or if other modifications are to be made, the structure must be re-engineered prior to these modifications (by others).

DESIGN CRITERIA:

Florida Building Code 8th Ed. (2023)

Type of Construction: Type II-B

Occupancy Classification: Assembly A-3

Building Risk Category II

Mean Roof Height = 10'-6"

Building Volume = 8,400 ft³

No. of Occupants = 54 (15 ft² per person)

ROOF DL

Metal Roofing 1.2 psf

Misc. 0.8

Total = 2 psf + weight of framing

FLOOR LL

L = 100 psf

ROOF LL

L_r = 20 psf

WIND LOAD

V_{ult} = 150 mph, V_{act} = 116 mph

Exposure 'B', Open Building w/ GC_o = 0

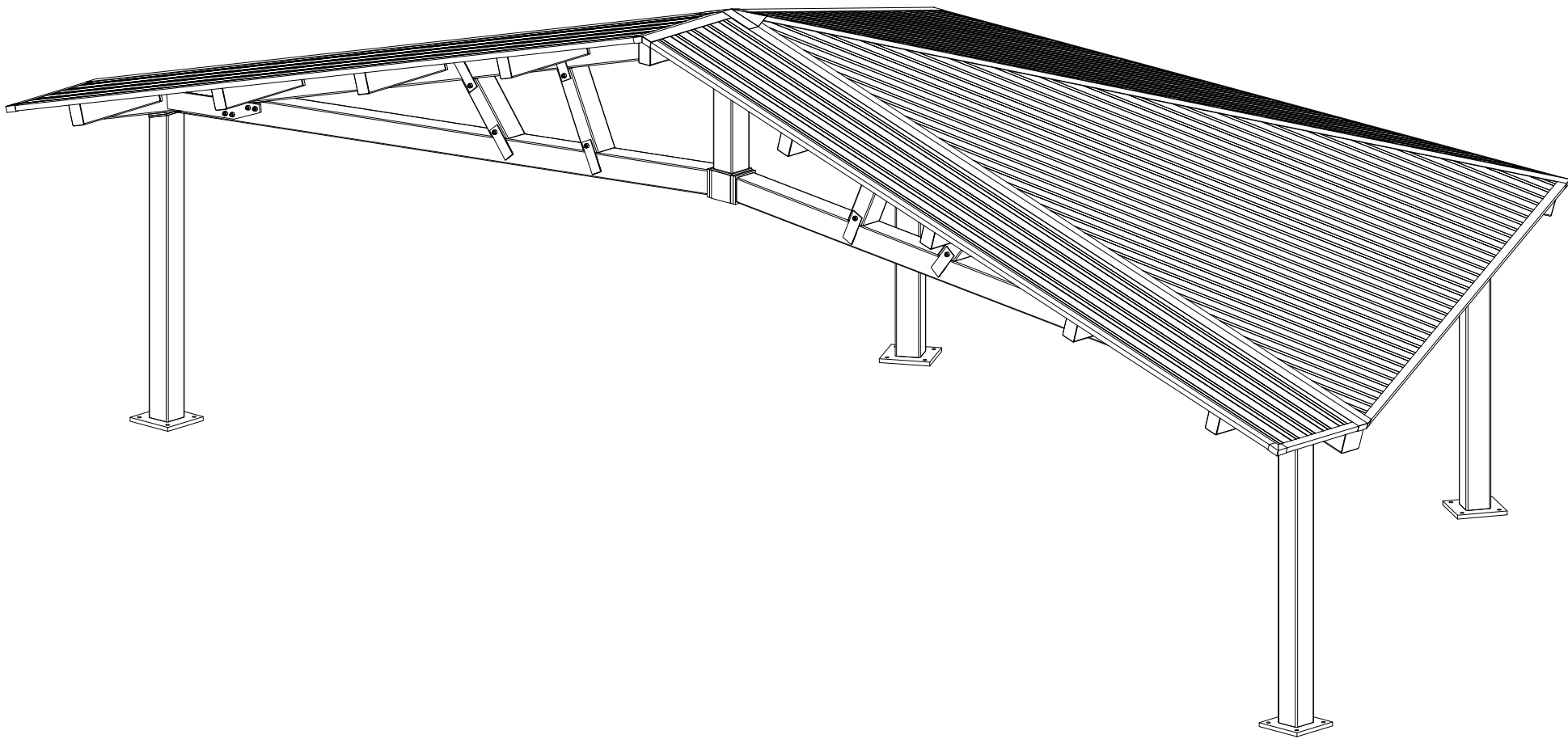
Component & Cladding Ultimate Wind Pressures: See ROOF PLAN on this sheet

METAL ROOFING NOTES:

CLEAR PROTECTIVE FILM MUST BE REMOVED FROM ALL METAL PRIOR TO INSTALLATION.

METAL ROOFING SHOULD BE STORED INDOORS OR WHEN STORED OUTSIDE IT SHOULD BE STORED UP ON BLOCKS WITH FINISHED FACE UP AND SLOPED TO DRAIN.

DURING INSTALLATION, ALL METAL SHAVINGS MUST BE REMOVED IMMEDIATELY TO AVOID RUSTING OF PANELS.



THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY DANIEL P. SEYMOUR, PE. ON 07/03/24.

PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

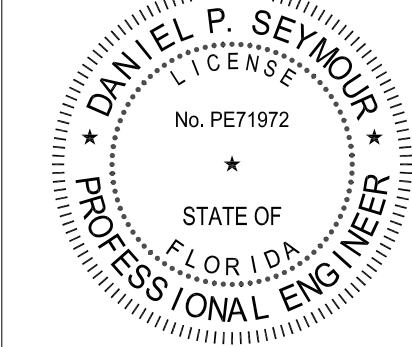
DESIGN CERTIFICATION FOR:

BUILDING SIZE: 45' BANDSHELL
BUILDING LOCATION: PALM BAY, FL

THIS CERTIFICATION OF DRAWINGS IS FOR THE ONE BUILDING ONLY AT THE SITE LISTED ABOVE. IT IS VALID ONLY IF THE MATERIALS SHOWN ON THESE DRAWINGS ARE FURNISHED BY RCP SHELTERS AND ONLY IF MATERIALS ARE PAID FOR IN FULL.

IF MODIFICATION IS MADE WITHOUT EXPRESSED WRITTEN CONSENT OF RCP SHELTERS, OR IF PAYMENT IS NOT MADE IN FULL, THEN CERTIFICATION BECOMES NULL AND VOID.

Daniel P. Seymour, P.E.
Enterprise Engineering Consultants, LTD.
710 French Street
Peshigo, WI 54157
FL Corp. Certificate No.: F00000005724
FL PE. NO.: 71972



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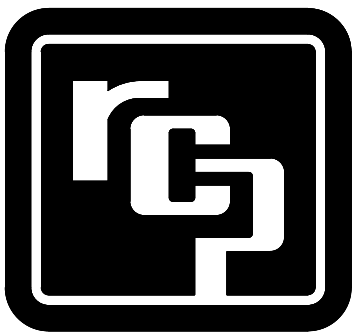
2100 SE RAYS WAY STUART, FL 34994

PO BOX 25 STUART, FL 34985-0025

Phone 772-288-3600

Fax 772-288-0207

Email info@rcps shelters.com



PROJ. NO.:

24-128-A

DRAWN:

JLW

6/26/2024

CHKD:

JCS

6/27/2024

REV 1:

REV 2:

REV 3:

REV 4:

SHOP NO.: 15106

EEC JOB NO.: 15106

SHEET NO.:

1 OF 6

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TS-BS-HEX45-04-GO

SACRIFICE PARK

PALM BAY, FL