DEVELOPMENT SERVICES

BUILDING | HISTORIC PRESERVATION | PLANNING & ZONING

ADMINISTRATIVE APPROVAL – STAFF REPORT

City Project: Memorial Gardens Mausoleum Expansion

Meeting	File No.	Application Type
January 6, 2026	2025-106	Level 2 Site Plan

Property Owner	Agent
City of Delray Beach	Bob Diaz, Project Manager II, City of Delray Beach

Request

Level 2 Site Plan Application for the construction of two new 1,913 square foot Mausoleum buildings and Columbarium for Delray Beach Memorial Gardens Municipal Cemetery at 800 SW 8th Avenue

Location: 800 SW 8th Avenue

PCN: 12-43-46-20-27-001-0190

Property Size: 39.27 acres

LUM: Open Space (OS)

Zoning: Open Space Recreational (OSR)

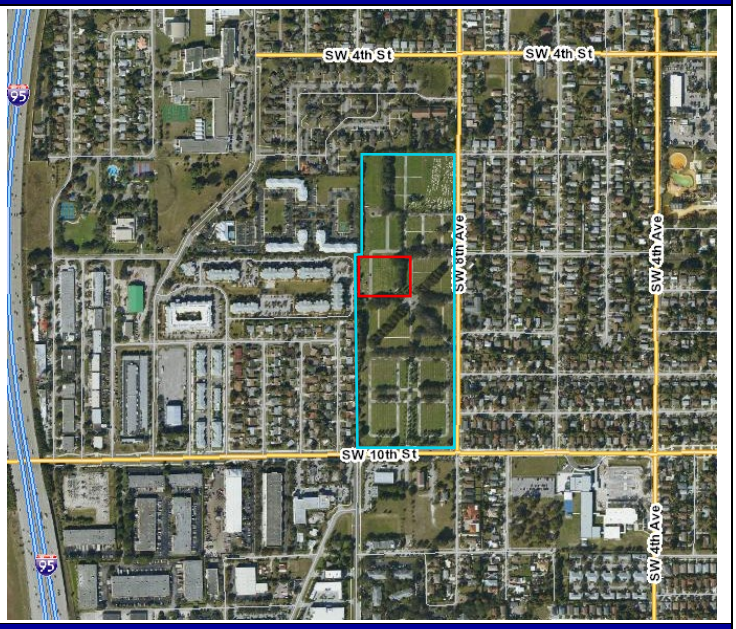
Adjacent Zoning:

- **North and South:** R-1-A
- **West:** Multiple Family Residential (RM)
- **East:** Single Family Residential (R-1-A)

Existing Use: Cemetery

Proposed Use: Mausoleums and Columbarium

Proposed FAR: .0036



Background

The Delray Beach Memorial Gardens Municipal Gardens traces its origins to the early development period of the community in 1900s. The cemetery was established by the Ladies Improvement Association, one of the earliest civic organizations in the settlement, which sought to create a formal burial ground for local residents. The cemetery opened under the name Pine Ridge Cemetery and the first documented burial took place in June 1903. In 1914, the Ladies Improvement Association formally deeded the property to the Town of Delray, transferring ownership and responsibility for long-term maintenance to the municipality. This transition made the cemetery one of the city's earliest public facilities and ensured that burial services would remain available to residents under municipal stewardship. In 1995, the facilities name was officially changed from Pine Ridge Cemetery to Delray Beach Memorial Gardens Municipal Cemetery.

The cemetery expanded throughout the 20th century to accommodate Delray Beach's growing population. Additions included new burial sections, internal roadway layout, landscaped garden areas, and the later construction of a mausoleum and cremation niches.

In 2025, the City also explored steps toward pursuing historic site recognition for the cemetery due to its significance in the community's early development and its more than 120 years of continuous operation.

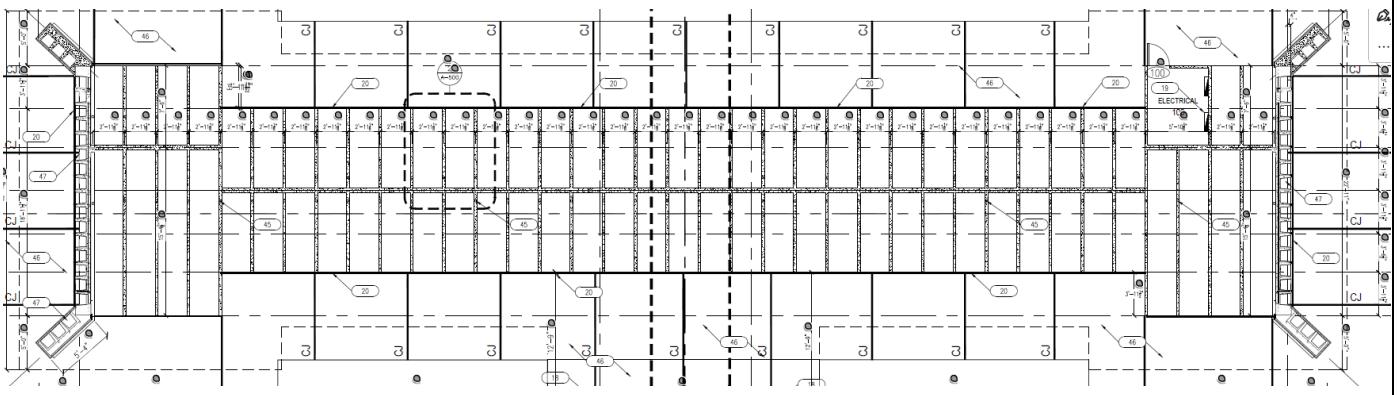
Project Planner:
Alexia Howald, Senior Planner
howalda@mydelraybeach.com

Today, the Delray Beach Memorial Gardens Municipal Cemetery remains an active, city-owned burial ground with over a century of documented history. It serves not only as a functional municipal facility but also as an important cultural and historical landmark representing the early civic organization, settlement patterns, and long-standing community heritage of Delray Beach.

Description of Proposal

The City of Delray Beach development proposal for Delray Beach Memorial Gardens Municipal Cemetery includes construction of two new 1,913 square foot Mausoleum buildings with a new columbarium plaza and associated landscaping to expand the cemetery's memorial capacity and enhance the visitor experience. The two new mausoleum buildings are configured as wings to the existing mausoleum, with a plaza formed between the three structures as the central organizing space. The new buildings are long rectangular forms with projecting end-caps on both ends to contain 440 crypts and 424 niches in each building. These wings are specifically designed to accommodate columbarium niches, providing additional wall surface for burial placement and creating intimate alcoves for quiet visitation. Each mausoleum is surrounded by an 8-foot-wide perimeter walkway, offering continuous and accessible circulation and connecting directly to the central plaza. The plaza features brick paver surface, a circular planter with integrated seating, and defined pedestrian connections that link the new buildings to one another and to the existing mausoleum creating a seamless and intuitive circulation network. The plaza serves as both functional walkway system and as a ceremonial gathering and reflection space for visitors.

The project also incorporates lush landscaping enhancements designed to blend the new construction into the existing cemetery grounds. Plantings include foundation shrubs, shade trees, and ornamental plantings while maintaining a respectful, serene environment.



Review & Analysis: Site Plan and Zoning

LDR Section 2.4.10(A)(1)(b), Level 2 Site Plan Applications
"Include new construction, additions to an existing building, or the conversion of an existing single-family residence or duplex, consisting of no more than a total of five dwelling units for multi-family residential development or 15,000 gross square feet of mixed-use or nonresidential development."

LDR Section 2.4.10(A)(2)(c)(1), Administrative Review *"Level 1 and Level 2 Site Plan applications may be approved, denied, or approved with conditions pursuant to Article 2.2 by the Director. "*

The proposed development consists of 3,826 square feet of new construction with no associated relief requests. Therefore, the request is considered a Level 2 Site Plan application subject to administrative approval.

LDR Section 2.4.10(A)(3), Findings
(b) Level 2, Level 3, and Level 4 Site Plan applications require compliance with the findings in Chapter 3, Performance Standards.
(c) Landscape Plans, including modifications to existing landscaping, shall be consistent with Section 4.6.16, Landscape Regulations

(d) Architectural Elevations, including modifications to existing building facades, require an overall determination of consistency with the objectives and standards of Section 4.6.18, Architectural Elevations and Aesthetics, and any adopted architectural design guidelines and standards, as applicable.

The site plan application requires compliance with b, c, and d listed above. The analysis of the required findings is further identified below.

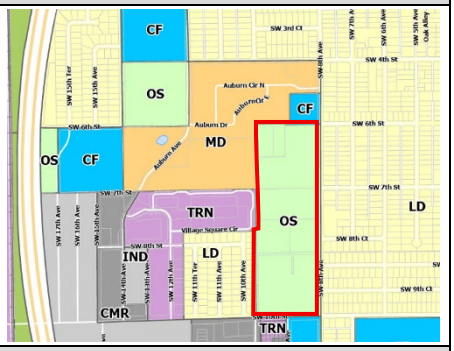
LDR Section 3.1.1, Required Findings *Prior to the approval of development applications, certain findings must be made in a form which is part of the official record. This may be achieved through information on the application, written materials submitted by the applicant, the staff report, or minutes. Findings shall be made by the body which has the authority to approve or deny the development application.*

These findings relate to (A) the Land Use Map, (B) Concurrency, (C) Consistency, and (D) Compliance with the LDR; analysis is provided below.

3.1.1(A) Land Use Map

The resulting use of land or structures must be allowed in the zoning district within which the land is situated and said zoning must be consistent with the applicable land use designation as shown on the Land Use Map.

The subject property has a Land Use Map designation of OS, and a zoning designation of OSR, which is a compatible zoning district to implement the OS land use designation. Cemeteries and mausoleums, public or private are permitted uses within the OSR zoning district.



3.1.1(B) Concurrency

Concurrency as defined by Objective NDC 3.1 of the Neighborhoods, Districts, and Corridors Element of the adopted Comprehensive Plan must be met and a determination made that the public facility needs, including public schools, of the requested land use and/or development application will not exceed the ability of the City and The School District of Palm Beach County to fund and provide, or to require the provision of, needed capital improvements in order to maintain the Levels of Service Standards established in Table CIE-2, Level of Service Standards, of the Capital Improvements Element of the adopted Comprehensive Plan of the City of Delray Beach.

Potable Water and Sewer: There are no proposed facilities requiring connections to water and sewer services associated with this development.

Drainage. The runoff is directed to swales constructed in the areas adjacent to the new buildings ensuring the runoff percolates into the ground and does not leave the site.

Transportation: Concurrency is not applicable.

Parks and Open Space: Park impact fees are not applicable for this use.

Solid Waste: The Solid Waste Authority has indicated that there is sufficient landfill capacity to support all development through 2054.

Schools: Concurrency is not applicable.

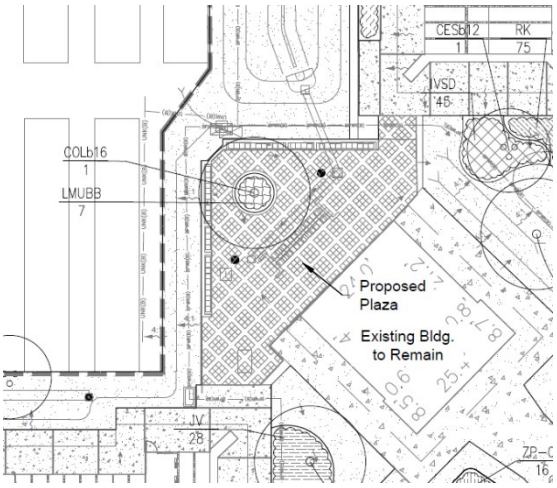
3.1.1(C) Consistency

A finding of overall consistency may be made even though the action may be in conflict with some individual performance standards contained within Article 3.2, provided that the approving body specifically finds that the beneficial aspects of the proposed project (hence compliance with some standards) outweighs the negative impacts of identified points of conflict.

The applicable subsections of Article 3.2, Performance Standards, are Section 3.2.1, which requires a determination of consistency with the Comprehensive Plan, and Section 3.2.3, which provides standards for site plan actions.

Section 3.2.3, Standards for site plan and/or plat actions

The applicable subsections of Article 3.2, Performance Standards, are Section 3.2.1, which requires a determination of consistency with the Comprehensive Plan, and Section 3.2.3, which provides standards for site plan actions. The proposed mausoleum and columbarium expansion complies with LDR Section 3.2.3 by providing an orderly and compatible site layout that maintains safe pedestrian circulation, adequate visibility, and functional integration with the existing cemetery. The proposed 8-foot sidewalks, and central brick-paver plaza create clear and accessible circulation networks and maintain the intent of the code. Although the project results in a minor reduction in open space, the design incorporates extensive landscaping, shaded seating areas, and plantings that preserve the functional and aesthetic value of open space required by the code. Overall, the project maintains compatibility with the surrounding context and meets the design, circulation, and open space standards.



Neighborhoods, Districts, and Corridors Element

Policy NDC 1.1.2 *Provide a complementary mix of land uses, including residential, office, commercial, industrial, recreational, and community facilities, with design characteristics that provide: Similar uses, intensity, height, and development patterns facing each other, especially in residential neighborhoods. Uses that meet the daily needs of residents. Public open spaces that are safe and attractive.*

Policy NDC 1.3.3 *Apply the density and intensity in mixed-use land use designations to encourage adaptive re-use, development, and redevelopment that advances strategic, policy-driven goals, such as diverse residential housing opportunities, sustainable building practices, historic preservation, public parking, civic open space, or economic development strategies.*

Policy NDC 1.5.1 *Preserve and protect areas with Conservation or Open Space land use designations to maintain a high quality of life for the residents and to prevent a reduction in the amount of open space in the city.*

Policy NDC 1.5.2 *Maintain the amount of publicly owned land (629.59 acres or 5.7% of the City's Planning Area in 2019) used as open space, parks, and recreational facilities, and increase publicly owned open space land when opportunities arise.*

Open Space, Parks, and Recreation Element

Policy OPR 1.1.3 *Provide and maintain a variety of parks, open spaces, and recreation facilities that serve the city's current and future population based on the adopted Local Level of Service Guideline criteria.*

Policy OPR 1.3.1 *Continue to provide a variety of recreational facilities and services that contribute to the health and wellbeing of all residents.*

Policy OPR 1.3.7 *Design Park, recreation, and open space facilities with handicapped accessibility in accordance with the Americans with Disabilities Act requirements and equip playground areas with accessible equipment.*

Policy OPR 1.3.11 *Provide multi-functional use of recreation and open spaces to efficiently meet community needs.*

Policy OPR 1.3.14 *Provide facilities for activities which serve all residents of the community and which can be achieved through redevelopment of existing park areas, enhancing existing facilities, and adding specialized items such as playgrounds to existing facilities.*

Policy OPR 1.4.5 *Maximize public accessibility to open space, parks, and recreational facilities provided by requiring them to be strategically planned and located within new development.*

Policy OPR 3.1.4 *Design open spaces and recreation facilities to minimize the impact of human activities on natural systems.*

The proposed application demonstrates clear consistency with the Objectives and Policies of the Comprehensive Plan. The project strengthens the intent of the Neighborhoods, Districts, and Corridors Element by preserving the character of an established open space facility and supporting community-oriented land uses that contribute to the city's overall livability. It also advances the Open

Space, Parks, and Recreation Element by expanding a public cemetery in a manner that enhances accessibility, improves functional capacity, and maintains the long-term availability of high-quality open space for residents. Through its design, scale, and integration with the existing site, the project aligns with the city's policy direction for thoughtful stewardship of public lands and the continued provision of recreational and community facilities that serve current and future needs.

3.1.1(D) Compliance with the LDR.

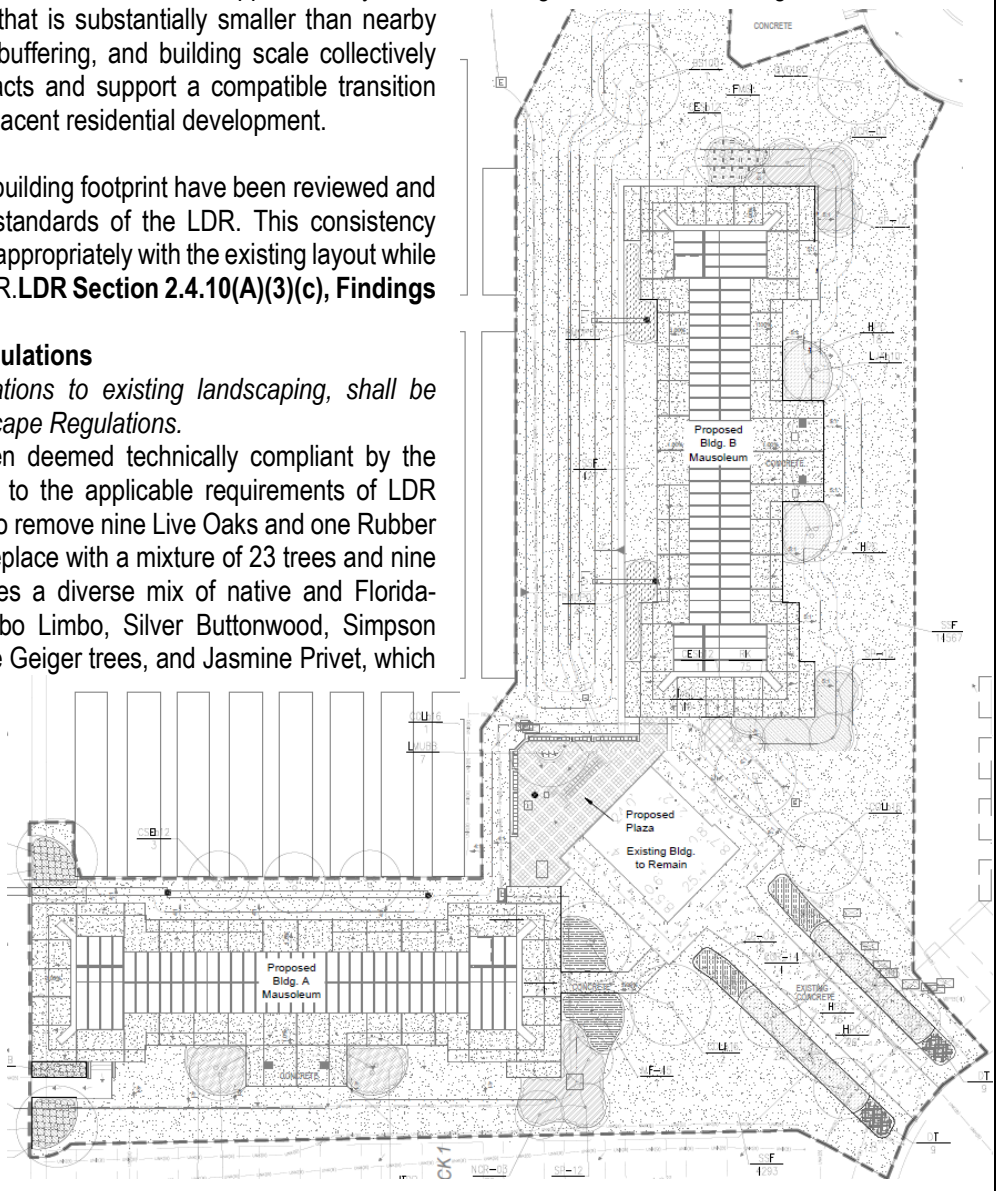
LDR Section 4.4.27, Open Space and Recreation (OSR) District

(B) ***Principal uses and structures permitted.*** *The following types of use are allowed within the OSR District as a permitted use:*
(4) Cemeteries and mausoleums, public or private.

(D) ***Review and approval process.*** *The use of any land within the OSR District must be pursuant to a site and development plan which has been approved pursuant to Chapter 2.*

(E) ***Development, supplemental, and special regulations.*** *All standards for the development and/or use of property zoned OSR shall be established pursuant to the site and development plan.*

The principal use of mausoleums is consistent with the requirements in LDR Section 4.4.27 and is an allowable use within the Open Space Recreation Zoning District. The proposed mausoleum buildings within Delray Beach Memorial Gardens Municipal Cemetery are designed and positioned on the site to maintain compatibility with the adjacent multifamily development located along Auburn Avenue and Village Square Circle, including Village at Delray. The structures are set back approximately 103.44 feet from the west property line, with the separation provided by an internal cemetery roadway and a landscaped green open-space area that functions as a buffer between uses. The mausoleum's modest scale, approximately 17.5 feet in height and 118 feet in length results in a low-profile, horizontally oriented building that is substantially smaller than nearby multifamily structures. This setback, buffering, and building scale collectively minimize visual and operational impacts and support a compatible transition between the cemetery use and the adjacent residential development.



The proposed location, setbacks and building footprint have been reviewed and found to comply with all applicable standards of the LDR. This consistency ensures that the expansion integrates appropriately with the existing layout while meeting the regulatory intent of the LDR.**LDR Section 2.4.10(A)(3)(c), Findings**

LDR Section 4.6.16, Landscape Regulations

Landscape Plans, including modifications to existing landscaping, shall be consistent with Section 4.6.16, Landscape Regulations.

Overall, the landscape plan has been deemed technically compliant by the Senior Landscape Planner, pursuant to the applicable requirements of LDR Section 4.6.16. The proposal intends to remove nine Live Oaks and one Rubber Fig tree and 12 cabbage palms and replace with a mixture of 23 trees and nine cabbage palms. The plan incorporates a diverse mix of native and Florida-friendly tree species, including Gumbo Limbo, Silver Buttonwood, Simpson Stopper, Cathedral Live Oaks, Orange Geiger trees, and Jasmine Privet, which together meet the City's requirement for tree canopy, screening, and landscape coverage. Foundation plantings and groundcovers provide continuous low-level buffering and soften the building's edges in accordance with code standards. The variety and quantity of plants materials meet the minimum requirements for species diversity and sustainable planting, while contributing to a cohesive and visually enhanced memorial environment.

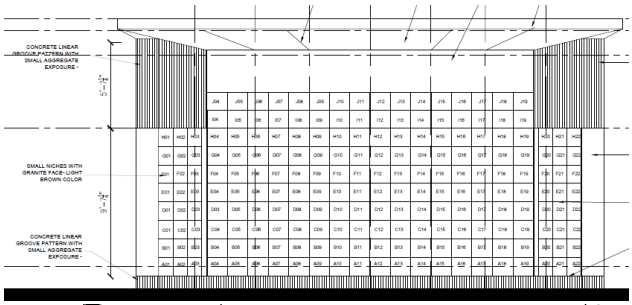
LDR Section 4.6.18, Architectural Elevations and Aesthetics (E), Criteria for board action

The following criteria shall be considered, by the Site Plan Review and Appearance Board or Historic Preservation Board, in the review of plans for building permits. If the following criteria are not met, the application shall be disapproved.

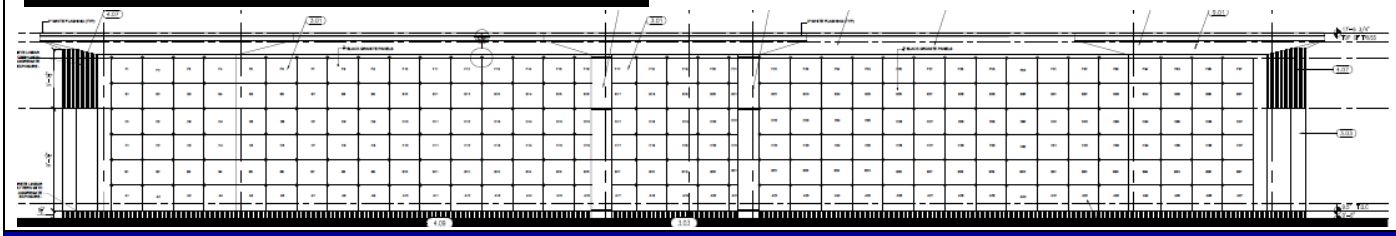
1. *The plan or the proposed structure, is in conformity with good taste, good design, and in general contributes to the image of the City as a place of beauty, spaciousness, harmony, taste, fitness, broad vistas, and high quality.*
2. *The proposed structure, or project, is in its exterior design and appearance of quality such as not to cause the nature of the local environment or evolving environment to materially depreciate in appearance and value.*
3. *The proposed structure, or project, is in harmony with the proposed developments in the general area, with the Comprehensive Plan, and with the supplemental criteria which may be set forth for the Board from time to time.*

The proposed mausoleums feature a contemporary, rectangular form with a strong horizontal profile. The front and rear elevations are defined by a long columbarium wall composed of small memorial niches featuring black granite panels arranged in a uniform grid, with a continuous roof overhang supported by columns, establishing rhythm and visual order. Architectural articulation is provided through the use of cast in place concrete wall panels featuring linear groove patterns with small aggregate exposure. These vertically oriented grooves provide texture, depth, and visual rhythm, particularly at transition areas, helping to break up the building mass while maintaining a refined memorial character. The side elevations, which featuring the winged end caps are defined by small niches arranged in a uniform grid, each finished with light brown granite face panels that contribute to a warm and dignified appearance creating a deliberate material contrast.

A cantilevered roof extends across the façade and is supported by evenly spaced light-toned stone or architectural concrete columns. This creates a sheltered arcade and establishes a rhythmic architectural pattern. Integrated architectural lighting highlights the columns and roof overhang, groove concrete panels, granite finishes enhancing the building's presence during evening hours while maintaining a respectful tone.



Surrounded by open lawn and mature trees, the mausoleum's modern materials, geometric simplicity, and subdued color palette contribute to a solemn yet contemporary design suitable for a cemetery environment, complying with LDR Section 4.6.18, Architectural Elevations and Aesthetics (E).



Director Action

The proposed project has been administratively approved. Final action is pending approval of the City Commission via the appealable process.

Technical Advisory Committee (TAC) Timeline

Review No.	Submittal Date	TAC Comments Transmitted
1	1/16/2025	2/20/2025
2	3/24/2025	4/21/2025
3	5/28/2025	6/13/2025
4	7/21/2025	8/8/2025

FINAL SET OF PLANS
CITY OF DELRAY BEACH
DELRAY BEACH MEMORIAL GARDEN
ENGINEERING PLANS

GOVERNING STANDARD PLANS:
Florida Department of Transportation, FY 2023-24 Standard Plans for Road and Bridge Construction and applicable Interim Revisions (IRs).

Standard Plans for Road and Bridge Construction and associated IRs are available at the following website:
http://www.fdot.gov/design/Standardplans.shtm

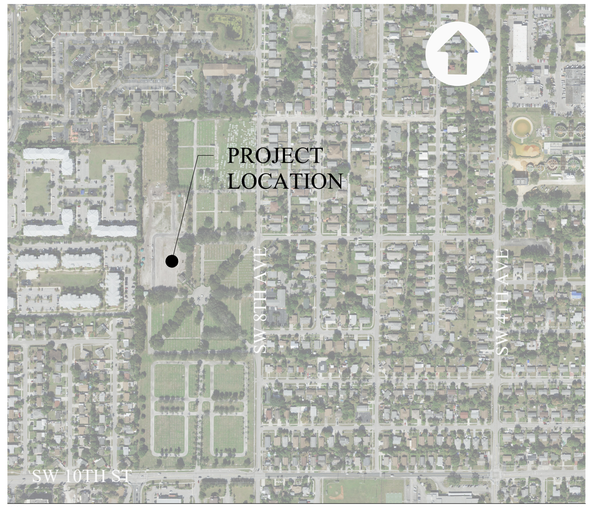
GOVERNING STANDARD SPECIFICATIONS:
Florida Department of Transportation, FY 2023-24 Standard Specifications for Road and Bridge Construction at the following website:
http:// www.fdot.gov/programmanagement/Implemeted/Specbooks

Manual on Uniform Minimum Standards for Design, Construction and Maintenance for Streets and Highways ("Florida Greenbook") dated 2018

CITY OF DELRAY BEACH, 2021, Minimum Construction Standards and specifications
http://
www.delraybeachfl.gov/home/showpublisheddocument/10777/637793054123830000

SCOPE OF WORK:

PROPOSED EXPANSION OF THE CEMETERY FACILITY ON ITS MEMORIAL GARDENS PROPERTY LOCATED AT 700 SW 8TH AVENUE IN THE CITY OF DELRAY BEACH.



Site Location Map 1"=400'

Civil Engineer:
Carnahan Proctor & Cross, Inc.
604 Courtland Street,
Suite 101 Orlando, FL 32804
(407) 960-5980

Planner:
McCleskey Professional Services
723 Church Street,
Buford, GA 30518
(770) 447-9370

Geotechnical:
Universal Engineering Sciences
1215 Wallace Drive
Delray Beach, FL 33444
(561) 347-0070

Environmental:
EnviroDesign Associates, Inc.
298 Pineapple Grove Way
Delray Beach, Fl 33444
(561) 274-6500

Surveyor:
Carnahan Proctor & Cross, Inc.
814 South Military Trail,
Deerfield Beach, FL 33442
(954) 972-3959

811 Know what's below. Call before you dig.

ALL ELEVATIONS SHOWN ON THESE PLANS ARE BASED ON NAVD 1988 DATUM

PREPARED FOR

CITY OF DELRAY BEACH
100 N.W. 1ST AVENUE
DELRAY BEACH, FLORIDA 33444

SECTION 16 TOWNSHIP 46S RANGE 43E
Parcel No.
12-43-46-20-27-001-0190
ADDRESS: 800 SW 8TH AVE

NO	DATE	BY	APRV	REVISIONS
4	06/18/2025	RP	RR	REV. PER CITY COUNTY COMMENTS
3	04/1/2025	RP	RR	REV. PER CITY COUNTY COMMENTS
2	03/6/2025	RP	RR	REV. PER CITY COUNTY COMMENTS
1	10/4/2024	RP	RR	REV. PER COUNTY COMMENTS

CITY OF DELRAY BEACH
MEMORIAL GARDENS
MUNICIPAL CEMETERY

COVER SHEET

CARNAHAN PROCTOR & CROSS
CIVIL ENGINEERING | CONSTRUCTION SERVICES | GEOMATICS
814 S. MILITARY TRAIL DEERFIELD BEACH, FLORIDA 33442
PHONE: (954) 972-3959 FAX: (954) 972-4178
FILE NO. 221008

SCALE:	
DATE:	9/2/2025
DRAWN BY:	S.R.
CHECKED BY:	R.R.
DESIGNED BY:	S.R.

CARNAHAN PROCTOR & CROSS
CIVIL ENGINEERING | CONSTRUCTION SERVICES | GEOMATICS
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PHONE: (954) 972-3959 FAX: (954) 972-4178
CPC AUTH. NO. 00002936 FILE NO. 221008

ERIC J. LUIPERSBECK LICENSE No.98091 09/03/2025 STATE OF FLORIDA PROFESSIONAL ENGINEER

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY ERIC J. LUIPERSBECK, P.E. ON THE DATE ADJACENT TO THE SEAL.

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C003	EXISTING CONDITIONS DEMOLITION AND EROSION CONTROL PLAN
C004	MASTER SITE PLAN
C100	SITE PLAN
C200	OVERALL GRADING & DRAINAGE PLAN
C201-C202	GRADING & DRAINAGE PLAN
C900-C901	SITE DETAILS
2 SHEET	SPECIFIC PURPOSE SURVEY MAUSOLEUM

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C-001	LANDSCAPE DETAILS
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L1.2	TREE DISPOSITION DATA TABLE
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L1.5	LANDSCAPE SPECIFICATIONS

NO	DATE	BY	APRV	REVISIONS
4	06/18/2025	RP	RR	REV. PER CITY COUNTY COMMENTS
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1	10/4/2024	RP	RR	REV. PER COUNTY COMMENTS

CITY OF DELRAY BEACH
MEMORIAL GARDENS
MUNICIPAL CEMETERY

INDEX TABLE SHEET

CARVAHAN PROCTOR & CROSS
CIVIL ENGINEERING | CONSTRUCTION SERVICES | GEOMATICS
614 S. MILITARY TRAIL DEERFIELD BEACH, FLORIDA 33442
PHONE: (954) 972-3959 FAX: (954) 972-4178

FILE NO. 221008

SCALE:	
DATE:	9/3/2025
DRAWN BY:	S.R.
CHECKED BY:	R.R.
DESIGNED BY:	S.R.

C001.1

ERIC J. LUIPERSBECK LICENSE No.98091 09/03/2025 STATE OF FLORIDA PROFESSIONAL ENGINEER

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY ERIC J. LUIPERSBECK, P.E. ON THE DATE ADJACENT TO THE SEAL.

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GENERAL NOTES

1. THE OWNER FOR THIS PROJECT IS THE DELRAY BEACH, CARNAHAN PROCTOR CROSS, INC. IS THE OWNER'S REPRESENTATIVE AND HEREAFTER REFERRED TO AS "THE ENGINEER"
2. ELEVATIONS SHOWN HEREON ARE BASED ON THE NORTH AMERICA VERTICAL DATUM OF 1988: REFERENCE BASED ON NGS BENCHMARK BM-1 ELEVATION = 24.97' N.A.V.D. 88.
3. ALL LABOR, MATERIALS, AS-BUILT DRAWINGS AND METHODS OF CONSTRUCTION SHALL BE IN STRICT ACCORDANCE WITH THE MINIMUM ENGINEERING AND CONSTRUCTION STANDARDS ADOPTED BY CITY OF DELRAY BEACH, UTILITIES OFFICE, FDOT STANDARDS, THE PLANS, AND CONSTRUCTION SPECIFICATIONS. WHERE CONFLICTS OR OMISSIONS EXIST, CITY OF DELRAY BEACH SHALL DICTATE. HOWEVER CONTRACTOR SHALL BRING ALL CONFLICTS TO THE ATTENTION OF THE ENGINEER. SUBSTITUTIONS AND DEVIATION FROM PLANS AND SPECIFICATIONS SHALL BE PERMITTED ONLY WHEN WRITTEN APPROVAL HAS BEEN ISSUED BY THE ENGINEER.
4. SHOP DRAWINGS OF ALL MATERIALS BEING USED SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO ORDERING MATERIALS. THE DRAWINGS WILL THEN BE FORWARDED TO CITY OF DELRAY BEACH FOR THEIR APPROVAL. WATER AND SEWER DRAWINGS SHALL BE FORWARDED TO CITY OF DELRAY BEACH FOR THEIR APPROVAL.
5. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT ALL REQUIRED PERMITS ARE OBTAINED AND IN HAND BEFORE BEGINNING ANY CONSTRUCTION. NO CONSTRUCTION OR FABRICATION OF ANY ITEM SHALL BEGIN UNTIL THE CONTRACTOR HAS RECEIVED ALL PLANS AND ANY OTHER DOCUMENTATION FROM ALL OF THE PERMITTING AND ANY OTHER REGULATORY AUTHORITIES. ANY PENALTIES, STOP WORK ORDERS OR ADDITIONAL WORK RESULTING FROM THE CONTRACTOR BEING IN VIOLATION OF THE REQUIREMENTS ABOVE SHALL BE FULLY BORNE BY THE CONTRACTOR.
6. THE LOCATION OF ALL EXISTING UTILITIES AND STORM DRAINAGE SHOWN ON THE PLANS HAVE BEEN DETERMINED FROM THE BEST INFORMATION AVAILABLE AND ARE GIVEN FOR THE CONVENIENCE OF THE CONTRACTOR. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR INACCURACY. PRIOR TO THE START OF ANY CONSTRUCTION ACTIVITY IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE VARIOUS UTILITIES AND TO MAKE THE NECESSARY ARRANGEMENTS FOR ANY RELOCATION OF THESE UTILITIES WITH THE OWNER OF THE UTILITY. THE CONTRACTOR SHALL EXERCISE CAUTION WHEN CROSSING UNDERGROUND UTILITIES, WHETHER SHOWN ON THE PLAN OR LOCATED BY THE UTILITY COMPANY. ALL UTILITIES WHICH INTERFERE WITH THE PROPOSED CONSTRUCTION SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER FIRST. ANY FEES ASSOCIATED WITH UTILITY RELOCATION SHALL BE BORNE BY THE CONTRACTOR. IT IS THE CONTRACTOR'S RESPONSIBILITY TO INSURE UTILITIES ARE RELOCATED IN ACCORDANCE WITH RESPECTIVE UTILITY COMPANY STANDARDS. IT IS REQUESTED THAT UTILITY COMPANIES MOVE THEIR PARTICULAR UTILITIES. ANY DELAY OR INCONVENIENCE CAUSED TO THE CONTRACTOR BY THE RELOCATION OF THE VARIOUS UTILITIES SHALL BE INCIDENTAL TO THE CONTRACT AND NO EXTRA COMPENSATION WILL BE ALLOWED.
7. ALL DEWATERING COSTS ASSOCIATED WITH THE INSTALLATION AND CONSTRUCTION OF THE UNDERGROUND UTILITIES; STORMWATER PIPES AND MANHOLES; SANITARY SEWER MAINS, MANHOLES, AND STORMWATER MANAGEMENT SYSTEMS SHALL BE INCLUDED AS PART OF THE CONSTRUCTION BID COSTS.
8. THE CONTRACTOR SHALL MAINTAIN A CURRENT SET OF CONSTRUCTION PLANS AND ALL PERMITS ON THE JOB SITE DURING ALL PHASES OF CONSTRUCTION.
9. THE SEQUENCE OF CONSTRUCTION SHALL BE SUCH THAT ALL UNDERGROUND INSTALLATIONS OF EVERY KIND, INCLUDING SPRINKLERS, SHALL BE PLACED BENEATH THE PAVEMENT AND ITS EDGES PRIOR TO THE CONSTRUCTION OF THE PAVEMENT. THE PAVEMENT SHALL NOT BE CUT WITHOUT PRIOR APPROVAL OF THE ENGINEER.
10. CONSTRUCTION OBSERVATION WILL BE PROVIDED BY THE ENGINEER. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AT LEAST 48 HOURS PRIOR TO BEGINNING CONSTRUCTION AND AT LEAST 48 HOURS BEFORE REQUIRING OBSERVATION ON EACH AND EVERY PHASE OF WORK. THE CONTRACTOR SHALL NOTIFY THE ENGINEER A MINIMUM OF 48 HOURS PRIOR TO ANY SCHEDULED TESTING. FINAL TESTING OR PRESSURE TESTING WILL NOT BE ACCEPTED UNLESS WITNESSED BY THE ENGINEER'S REPRESENTATIVE.
11. ALL CONTRACTORS, COUNTY REPRESENTATIVES, AND UTILITY COMPANIES ARE RESPONSIBLE FOR THEIR RESPECTIVE SURVEYING AND LAYOUT FROM BENCHMARKS PROVIDED ON CONSTRUCTION PLANS.
12. ALL PROPOSED GRANITE BOUNDS AND ANY EXISTING MONUMENTATION DISTURBED DURING CONSTRUCTION SHALL BE RESET BY A PROFESSIONAL SURVEYOR (PSM), LICENSED IN THE STATE OF FLORIDA AT NO COST TO THE OWNER.
13. THE CONTRACTOR SHALL PREPARE AN AS-BUILT PLAN SURVEY SHOWING LOCATIONS OF ALL SURFACE FEATURES AND SUBSURFACE UTILITY SYSTEMS INCLUDING THE LOCATION, SIZE AND INVERTS. THE CONTRACTOR SHALL PROVIDE FIVE (5) SETS OF AS-BUILT DRAWINGS PREPARED BY A LAND SURVEYOR LICENSED BY THE STATE OF FLORIDA TO THE ENGINEER OF RECORD WITHIN TWO (2) WEEKS AFTER CONSTRUCTION HAS BEEN COMPLETED ON EACH PHASE. REFER TO GENERAL NOTE #2.
14. ALL PIPE CALL OUTS ARE MEASURED CENTER LINE TO CENTER LINE FOR MANHOLES AND INLETS AND FROM THE END OF THE PIPE FOR MITERED END SECTIONS.
15. PLANS AND SPECIFICATIONS REQUIRE THAT COMPACTED BACKFILL BE PLACED ALONG SIDE OF AND OVER ALL UTILITIES. THE ENGINEER OR OWNER'S REPRESENTATIVE MAY REQUIRE THAT COMPACTION TESTS BE TAKEN TO VERIFY BACKFILL COMPACTION. THE COST OF SUCH COMPACTION TESTS WILL BE BORNE BY THE CONTRACTOR.
16. LAYOUT DIMENSIONS ARE FROM FACE OF BUILDING, FACE OF WALL OR BACK OF CURBS AND CENTERLINE OF BERM, DITCHES AND SWALES UNLESS OTHERWISE SPECIFIED IN THE PLANS.
17. THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES. ALL REPAIRS SHALL BE MADE AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR IS TO CONTACT "SUNSHINE" 72 HOURS PRIOR TO ANY EXCAVATION AT 1-800-432-4770.
18. RIM ELEVATIONS OF PROPOSED DRAINAGE AND SANITARY SEWER MANHOLES AND ASSOCIATED STRUCTURES ARE APPROXIMATE. FINAL ELEVATIONS ARE TO BE SET FLUSH AND CONSISTENT WITH THE GRADING PLANS. ADJUST ALL OTHER RIM ELEVATIONS OF MANHOLES, WATER GATES, GAS GATES AND OTHER UTILITIES TO FINISHED GRADE WITHIN LIMITS OF WORK.
19. CONTRACTOR SHALL REMOVE ALL EXISTING MANMADE SURFACE FEATURES WITHIN THE LIMITS OF WORK INCLUDING BUILDING, STRUCTURES, PAVEMENTS, SLABS, CURBING, FENCES, UTILITY POLES, SIGNS, ETC. UNLESS OTHERWISE INDICATED ON THE DRAWINGS.
20. THE LOCATION, SIZE, DEPTH, AND SPECIFICATIONS FOR CONSTRUCTION OF PROPOSED PRIVATE UTILITY SERVICES SHALL BE INSTALLED ACCORDING TO THE REQUIREMENTS PROVIDED BY, AND APPROVED BY, THE RESPECTIVE UTILITY COMPANY (GAS, TELEPHONE, AND ELECTRIC). FINAL DESIGN LOADS AND LOCATIONS TO BE COORDINATED WITH OWNER AND ARCHITECT.
21. WHERE AN EXISTING UTILITY IS FOUND TO CONFLICT WITH THE PROPOSED WORK, THE LOCATION, ELEVATION AND SIZE OF THE UTILITY SHALL BE ACCURATELY DETERMINED WITHOUT DELAY BY THE CONTRACTOR, AND THE INFORMATION FURNISHED IN WRITING TO THE OWNER'S REPRESENTATIVE FOR THE RESOLUTION OF THE CONFLICT.
22. AREAS OUTSIDE THE LIMITS OF PROPOSED WORK DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED BY THE CONTRACTOR TO THEIR ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE. ALL AREAS DISTURBED DURING CONSTRUCTION NOT COVERED WITH BUILDINGS, STRUCTURES, OR PAVEMENT SHALL RECEIVE SOD UNLESS NOTED OR SHOWN OTHERWISE ON THE PLANS.
23. THE CONTRACTOR SHALL MAKE ALL ARRANGEMENTS AND SHALL BE RESPONSIBLE FOR PAYING ANY FEES FOR ANY POLE RELOCATION AND FOR THE ALTERATION OR ADJUSTMENT OF GAS, ELECTRIC, TELEPHONE, FIRE ALARM AND ANY OTHER PRIVATE UTILITIES BY THE UTILITY COMPANIES.
24. UPON AWARD OF CONTRACT, CONTRACTOR SHALL MAKE ALL NECESSARY CONSTRUCTION NOTIFICATIONS AND APPLY FOR AND OBTAIN ALL NECESSARY PERMITS, PAY ALL FEES AND POST ALL BONDS ASSOCIATED WITH THE WORK INDICATED ON THE DRAWINGS.
25. CONTRACTOR SHALL INSTALL ALL EROSION CONTROL MEASURES PRIOR TO EARTHWORK OPERATION AND MAINTAIN ALL EROSION CONTROL MEASURES DURING CONSTRUCTION. EROSION CONTROL SHALL BE REMOVED ONLY UPON THE ESTABLISHMENT OF ALL LANDSCAPED AREAS.
26. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR SITE SECURITY AND JOB SAFETY. ALL CONSTRUCTION ACTIVITY SHALL BE IN ACCORDANCE WITH OSHA STANDARDS AND LOCAL REQUIREMENTS.
27. ALL HANDICAP ACCESSIBLE PARKING SPACES, RAMPS AND SIDEWALKS SHALL BE CONSTRUCTED IN CONFORMANCE WITH THE FLORIDA BUILDING CODE, FDOT INDEX 522-002 AND THE AMERICANS WITH DISABILITIES ACT, AND SHALL HAVE CAST IN PLACE DETECTABLE WARNING DEVICE.
28. ALL SITE SIGNAGE & PAVEMENT MARKINGS SHALL CONFORM TO THE LATEST EDITION OF THE MANUAL OF THE UNIFORM TRAFFIC CONTROL DEVICES. SIGN ASSEMBLY LOCATIONS SHOWN ON THE PLANS WHICH ARE IN CONFLICT WITH LIGHTING, UTILITIES, DRIVEWAYS, WHEELCHAIR RAMPS, ETC. MAY BE ADJUSTED SLIGHTLY AS DIRECTED BY THE ENGINEER. EXTREME LOCATION CHANGES MUST BE APPROVED BY THE ENGINEER. ALL STRIPING SHALL BE THERMOPLASTIC AND IN ACCORDANCE WITH FDOT INDEX #711-001.
29. ALL ROADWAY AND DRAINAGE CONSTRUCTION AND MATERIAL MUST COMPLY WITH THE LATEST EDITION OF THE FDOT DESIGN STANDARDS AND FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
30. SYMBOLS AND LEGENDS OF PROJECT FEATURES ARE GRAPHIC REPRESENTATIONS AND ARE NOT NECESSARILY SCALED TO THEIR ACTUAL DIMENSIONS OR LOCATIONS ON THE DRAWINGS. THE CONTRACTOR SHALL REFER TO THE DETAIL SHEET DIMENSIONS, MANUFACTURERS' LITERATURE, SHOP DRAWINGS AND FIELD MEASUREMENTS OF SUPPLIED PRODUCTS FOR LAYOUT OF THE PROJECT FEATURES.
31. CONTRACTOR SHALL NOT RELY SOLELY ON ELECTRONIC VERSIONS OF PLANS, SPECIFICATIONS, AND DATA FILES THAT ARE OBTAINED FROM THE DESIGNERS, BUT SHALL VERIFY LOCATION OF PROJECT FEATURES IN ACCORDANCE WITH THE PAPER COPIES OF THE PLANS AND SPECIFICATIONS THAT ARE SUPPLIED AS PART OF THE CONTRACT DOCUMENTS.
32. ALL WORK PERFORMED WITHIN THE FDOT RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH THE 2020-21 EDITIONS OF FDOT STANDARD PLANS, SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, AND THE 2017 UTILITY ACCOMMODATION MANUAL

MAINTENANCE OF TRAFFIC

1. FOR ANY ADJUSTMENT TO TRAFFIC ALONG ADJACENT STREETS TO THE PROJECT, THE CONTRACTOR SHALL CONFORM TO THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS (MUTCD), THE FDOT STANDARD PLAN INDEXES (SERIES 102-600) AND CITY OF DELRAY BEACH STANDARDS.
2. PRIOR TO COMMENCING WORK, THE CONTRACTOR SHALL FURNISH, ERECT AND MAINTAIN ALL BARRICADES, WARNING SIGNS AND MARKINGS FOR HAZARDS AND THE CONTROL OF TRAFFIC ALONG THE ADJACENT STREETS.

EARTHWORK AND SITEWORK

1. SOILS INVESTIGATIONS FOR THE SITE WERE PROVIDED BY PROFESSIONAL SERVICE INDUSTRIES, INC (PSI). THE CONTRACTOR IS TO OBTAIN A COPY OF THAT SOILS REPORT FOR REVIEW PRIOR TO CONSTRUCTION; AND THE CONSTRUCTION IS TO CONFORM WITH THE RECOMMENDATIONS IN THAT REPORT UNLESS OTHERWISE SPECIFIED IN THE PLANS.
2. IF OTHER SOURCES OF FILL ARE TO BE USED, IT IS THE CONTRACTOR'S RESPONSIBILITY TO HIRE GEOTECHNICAL ASSISTANCE INCORPORATING LABORATORY TESTING DETERMINING THE QUALITY OF FILL. ALL FINDING SHALL BE PROVIDED IN WRITING TO OWNER'S REPRESENTATIVE.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING THE NECESSARY TESTING BY A REGISTERED PROFESSIONAL GEOTECHNICAL ENGINEER. TO ASSURE THAT THE PROPER COMPACTION HAS BEEN ACHIEVED ON THE SUBGRADE, BASE, AND ALL OTHER PERTINENT AREAS THAT HAVE BEEN COMPLETED. THE CONTRACTOR SHALL BEAR ALL COSTS ASSOCIATED WITH TESTING AND RETESTING OF THE AREAS AND SHALL PROVIDE THE OWNER AND THE ENGINEER WITH COPIES OF THE CERTIFICATION OF COMPACTION FROM THE TESTING COMPANY.
4. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE EXISTING SITE CONDITIONS OF SOIL PRIOR TO NOTICE TO PROCEED TO DETERMINE IF ANY OFF SITE MATERIALS WILL NEED TO BE IMPORTED TO ACHIEVE THE GRADES SPECIFIED ON THE PLANS.
5. ALL EXCESS FILL FROM SITE SHALL BE STOCKPILED BY THE CONTRACTOR, IN A LOCATION DETERMINED BY THE OWNER OR THE OWNER'S REPRESENTATIVE. STOCKPILE SHALL BE LOCATED SO RUNOFF WILL NOT FLOW DIRECTLY OFF SITE OR TO WETLANDS. THERE IS NO IMPLICATION THAT EARTHWORK BALANCES, AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY IMPORT FILL NEEDED, OR FOR REMOVAL AND DISPOSAL OF EXCESS MATERIALS.
6. CLEAR AREAS INDICATED SHALL BE COMPLETELY CLEAR OF ALL TIMBER, BRUSH, STUMPS, ROOTS, GRASS, WEEDS, RUBBISH, AND ALL OTHER DEBRIS AND OBSTRUCTIONS RESTING ON OR PROTRUDING THROUGH THE SURFACE OF THE GROUND.
7. PRIOR TO BID PREPARATION, THE CONTRACTOR MUST BECOME FAMILIAR WITH THE OVERALL SITE CONDITIONS AND PERFORM ADDITIONAL INVESTIGATIONS AS DETERMINED NECESSARY TO UNDERSTAND THE LIMIT AND DEPTH OF EXPECTED ORGANIC SILT PEAT AREAS, ADEQUACY OF EXISTING MATERIALS AS FILL, DEWATERING REQUIREMENTS, CLEAN FILL REQUIRED FROM OFFSITE, AND MATERIALS TO BE DISPOSED OF OFFSITE, ALL OF WHICH WILL AFFECT ITS PRICING. ANY DELAY, INCONVENIENCE, OR EXPENSE CAUSED TO THE CONTRACTOR DUE TO INADEQUATE INVESTIGATION OF EXISTING CONDITIONS SHALL BE INCIDENTAL TO THE CONTRACT, AND NO EXTRA COMPENSATION WILL BE ALLOWED. THE MATERIALS ANTICIPATED TO BE ENCOUNTERED DURING CONSTRUCTION MAY REQUIRE DRYING PRIOR TO USE AS BACKFILL, AND THE CONTRACTOR MAY HAVE TO IMPORT MATERIALS FROM OFFSITE TO MEET THE REQUIREMENTS FOR COMPACTION AND PROPER FILL.
8. THE CONTRACTOR MUST INSTALL AND MAINTAIN SOD ON EXPOSED SLOPES WITHIN 48 HOURS OF COMPLETED FINAL GRADES, AND AT ANY OTHER TIME AS NECESSARY TO PREVENT EROSION, SEDIMENTATION OR TURBID DISCHARGES TO ANY DOWNSTREAM WATER BODY, WETLAND, OR OFFSITE PROPERTY.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROJECT COMPLYING WITH APPLICABLE STATE WATER QUALITY STANDARDS DURING CONSTRUCTION AS SPECIFIED IN THE PERMITS. ALL WATER AND WIND EROSION SHALL BE MINIMIZED AS DEFINED IN THE SPECIFICATIONS AND PERMITS. THE SPECIFICATIONS PROVIDE ONLY A MINIMUM REQUIREMENT FOR EROSION AND SEDIMENTATION CONTROL, IT IS THE CONTRACTOR'S RESPONSIBILITY TO IMPLEMENT CONTROL MEASURES NOT SHOWN IN SPECIFICATIONS. ALL COSTS ASSOCIATED WITH TURBIDITY CONTROL AND SEDIMENT STABILIZATION SHALL BE BORNE BY THE CONTRACTOR.
10. THE CONTRACTOR, AT HIS OWN EXPENSE, SHALL ALSO OPERATE AND MAINTAIN EROSION AND SEDIMENT CONTROL DEVICES AND STRUCTURES IN ACCORDANCE WITH THE REGULATIONS SET FORTH IN THE NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES) AS SHOWN IN THE EROSION CONTROL PLAN FOR THIS SITE.
11. THE CONTRACTOR SHALL SOD AREAS DISTURBED BY CONSTRUCTION UNLESS OTHER STABILIZATION PRACTICES ARE SPECIFIED ON THE PLANS.
12. THE CONTRACTOR SHALL TAKE ALL MEASURES NECESSARY TO CONTROL TURBIDITY INCLUDING, BUT NOT LIMITED TO, THE INSTALLATION OF TURBIDITY BARRIERS AT ALL LOCATIONS WHERE THE POSSIBILITY OF TRANSFERRING SUSPENDED SOLIDS INTO THE RECEIVING WATER BODY EXISTS DUE TO THE PROPOSED WORK. TURBIDITY BARRIERS MUST BE MAINTAINED AT ALL LOCATIONS UNTIL CONSTRUCTION IS COMPLETED AND DISTURBED SOIL AREAS ARE STABILIZED. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR REMOVING THE BARRIERS. AT NO TIME SHALL THERE BE ANY OFFSITE DISCHARGE WHICH VIOLATES THE WATER QUALITY STANDARDS IN CHAPTERS 62-302 AND 62-4, FLORIDA ADMINISTRATIVE CODE.
13. CLEARING DEBRIS SHALL BE DISPOSED OF IN A LEGAL FASHION. PRIOR TO ANY BURNING, THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS FROM THE APPLICABLE REGULATORY AGENCIES.
14. PRIOR TO START OF CONSTRUCTION, CONTRACTOR SHALL VERIFY EXISTING PAVEMENT ELEVATIONS AT INTERFACE WITH PROPOSED PAVEMENTS, AND EXISTING GROUND ELEVATIONS ADJACENT TO DRAINAGE OUTLETS TO ASSURE PROPER TRANSITIONS BETWEEN EXISTING AND PROPOSED FACILITIES.

OTHER UTILITY INFORMATION

1. THE CONTRACTOR SHALL PROTECT ALL UTILITIES AND OTHER IMPROVEMENTS SHOWN ON THESE PLANS AND ALL OTHER UTILITIES AND OTHER IMPROVEMENTS NOT SHOWN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REPAIRS OF UTILITIES AND OTHER IMPROVEMENTS DAMAGED DURING CONSTRUCTION AS DIRECTED BY THE OWNERS REPRESENTATIVE, AT NO ADDITIONAL COST TO THE OWNER, AND SHALL MAINTAIN SUFFICIENT PROTECTION TO ALL UTILITIES REQUIRED TO PROTECT THEM FROM DAMAGE AND TO PROTECT THE PUBLIC DURING CONSTRUCTION.
2. DUCTILE IRON PIPE SHALL BE ENCASED IN POLYETHYLENE TWENTY-FIVE (25) FEET ON EACH SIDE OF ANY PERPENDICULAR CROSSING OF METALLIC GAS MAINS OR ANY OTHER CATHODICALLY PROTECTED PIPELINE AND FOR ALL LOCATIONS PARALLEL TO AND WITHIN TEN FEET OF ANY METALLIC GAS MAINS OR ANY OTHER CATHODICALLY PROTECTED PIPELINE AND THROUGH THE AREA OF INFLUENCE OF ANY CATHODICALLY PROTECTION ANODE BED.
3. CHAPTER 553 – 851 OF THE FLORIDA STATUTES REQUIRES THAT AN EXCAVATOR NOTIFY ALL GAS UTILITIES A MINIMUM OF TWO (2) WORKING DAYS PRIOR TO EXCAVATING.

DEMOLITION

1. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF EXISTING MANMADE SURFACE FEATURES WITHIN THE LIMIT OF WORK . INCLUDING BUILDINGS, STRUCTURES, PAVEMENTS, SLABS, CURBING, FENCES, UTILITY POLES, SIGNS, ETC. UNLESS INDICATED OTHERWISE ON THE DRAWINGS. REMOVE AND DISPOSE OF EXISTING UTILITIES, FOUNDATIONS, AND UNSUITABLE MATERIAL WITHIN THE PROPOSED BUILDING FOOTPRINT AND TEN FEET BEYOND AND BENEATH EXTERIOR COLUMNS, PER DRAWINGS AND SPECIFICATIONS.
2. EXISTING UTILITIES SHALL BE TERMINATED, UNLESS OTHERWISE NOTED, IN CONFORMANCE WITH LOCAL, STATE, AND INDIVIDUAL UTILITY COMPANIES STANDARDS SPECIFICATIONS, AND DETAILS. THE CONTRACTOR SHALL COORDINATE UTILITY SERVICE DISCONNECTS WITH THE UTILITY REPRESENTATIVES.
3. CONTRACTOR SHALL DISPOSE OF DEMOLITION DEBRIS IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS, ORDINANCES, AND STATUTES.

UTILITY CONTACTS

1. ALL UTILITY COMPANIES WITHIN THE PROJECT LIMITS SHALL BE LISTED WITH CONTACT PERSON AND PHONE NUMBER, AS FOLLOWS:

UTILITY	*CONTACT PERSON*	*PHONE NUMBER*
CITY OF DELRAY BEACH WATER/ SEWER	WILLIAM BARR	(561) 243-7312
COMCAST-PBG	STEVEN F. ROSA	(561) 436-9034
NATURAL GAS	PETER BONO	(305) 213-9908
FLORIDA POWER &LIGHT - PALM BEACH	ROBERT WEESE	(561) 838-1841
FLA PUBLIC UTILITIES CO	PETER BONO	(561) 838-3395
COGENT COMMUNICATIONS	NATHAN BROOKMAN	(913) 456-6211
A T & T	GARTH BEDWAR TANIA CONTRERAS	(561) 540-9263 TC3655@ATT.COM
FLORIDA PUBLIC GAS (GAS)	BRAD COLIINS	ENGINEERING-WPB@FPUC.COM
TELECOMMUNICATIONS	EDILBERTO VASQUEZ ERIC ERVING	EDILBERTO.VASQUEZ@CROWNCASTLE.COM ERIC.ERVING@CROWNCASTLE.COM

NO	DATE	BY	APRV	REVISIONS
4	06/16/2025	RP	RR	REV. PER CITY COUNTY COMMENTS
3	04/1/2025	RP	RR	REV. PER CITY COUNTY COMMENTS
2	03/6/2025	RP	RR	REV. PER CITY COUNTY COMMENTS
1	10/4/2024	RP	RR	REV. PER COUNTY COMMENTS

CITY OF DELRAY BEACH MEMORIAL GARDENS MUNICIPAL CEMETERY

GENERAL NOTES

CARNAHAN PROCTOR & CROSS
CIVIL ENGINEERING | CONSTRUCTION SERVICES | GEOMATICS
814 S. MILITARY TRAIL DEERFIELD BEACH, FLORIDA 33442
PHONE: (954) 972-3959 FAX: (954) 972-4178

FILE NO. 221008

SCALE:
DATE: 9/2/2025
DRAWN BY: S.R.
CHECKED BY: R.R.
DESIGNED BY: S.R.

C002

ERIC J. LUIPERSBECK LICENSE No.98091 09/03/2025 STATE OF FLORIDA PROFESSIONAL ENGINEER

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY ERIC J. LUIPERSBECK, P.E. ON THE DATE ADJACENT TO THE SEAL.

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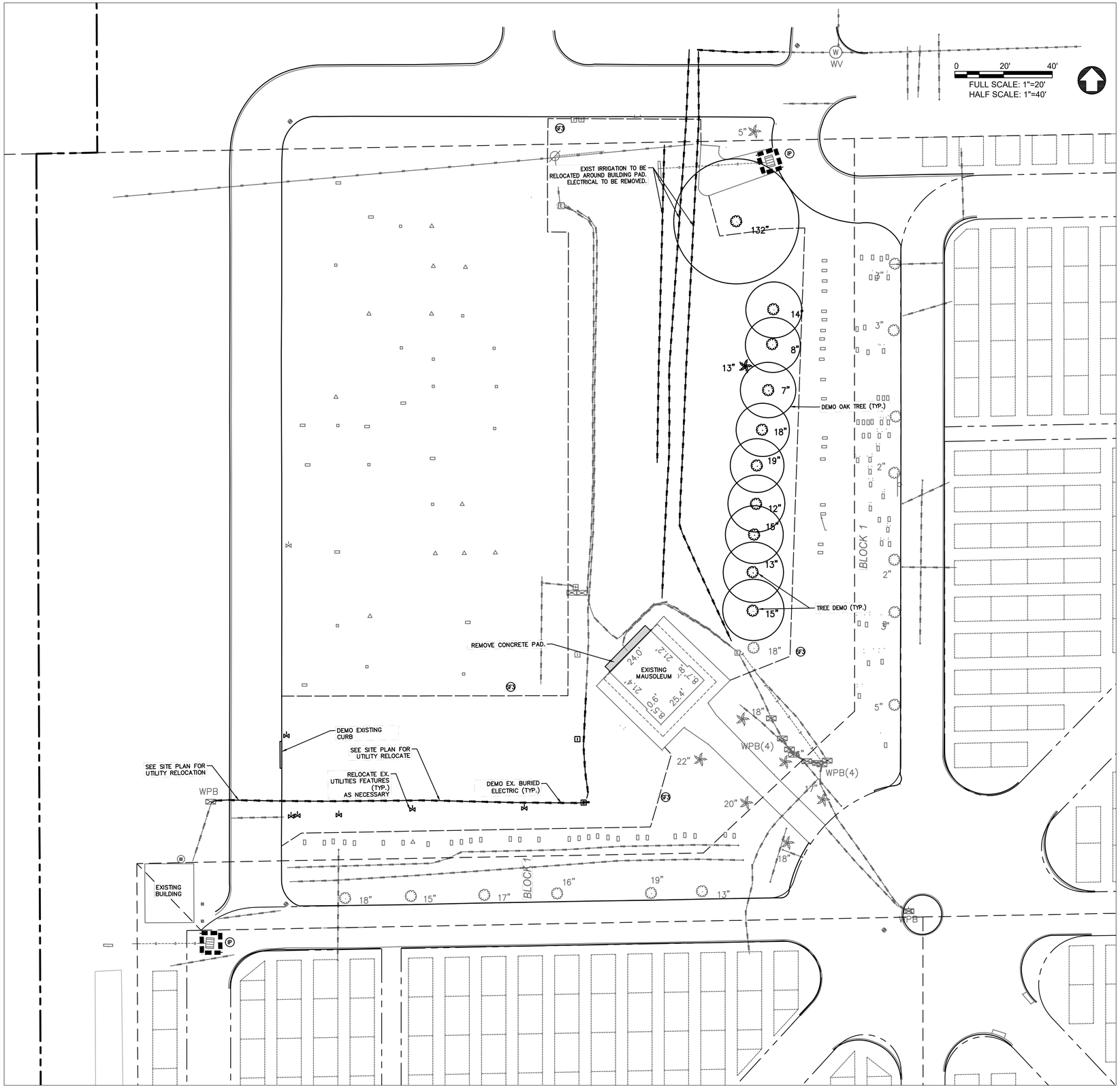

Legend

- IP — INLET PROTECTION
- SF3 — SILT FENCE
- CE — SOIL TRACKING PREVENTION DEVICE
- TB — TURBIDITY BARRIER
- TREE TO BE REMOVED
- TREE TO REMAIN

NO	DATE	BY	APRV	REVISIONS
4	06/18/2025	RP	RR	REV. PER CITY COUNTY COMMENTS
3	04/1/2025	RP	RR	REV. PER CITY COUNTY COMMENTS
2	03/6/2025	RP	RR	REV. PER CITY COUNTY COMMENTS
1	10/4/2024	RP	RR	REV. PER COUNTY COMMENTS

CITY OF DELRAY BEACH
MEMORIAL GARDENS
MUNICIPAL CEMETERY

EXISTING CONDITIONS DEMOLITION AND EROSION CONTROL PLAN

CARNAHAN PROCTOR & CROSS
CIVIL ENGINEERING | CONSTRUCTION SERVICES | GEOMATICS
614 S. MILITARY TRAIL, DEERFIELD BEACH, FLORIDA 33442
PHONE: (954) 972-3959 FAX: (954) 972-4178

FILE NO. 221008

SCALE:	
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CHECKED BY:	R.R.
DESIGNED BY:	S.R.

C003

ERIC J. LUIPERSBECK LICENSE No.98091 09/03/2025 STATE OF FLORIDA PROFESSIONAL ENGINEER

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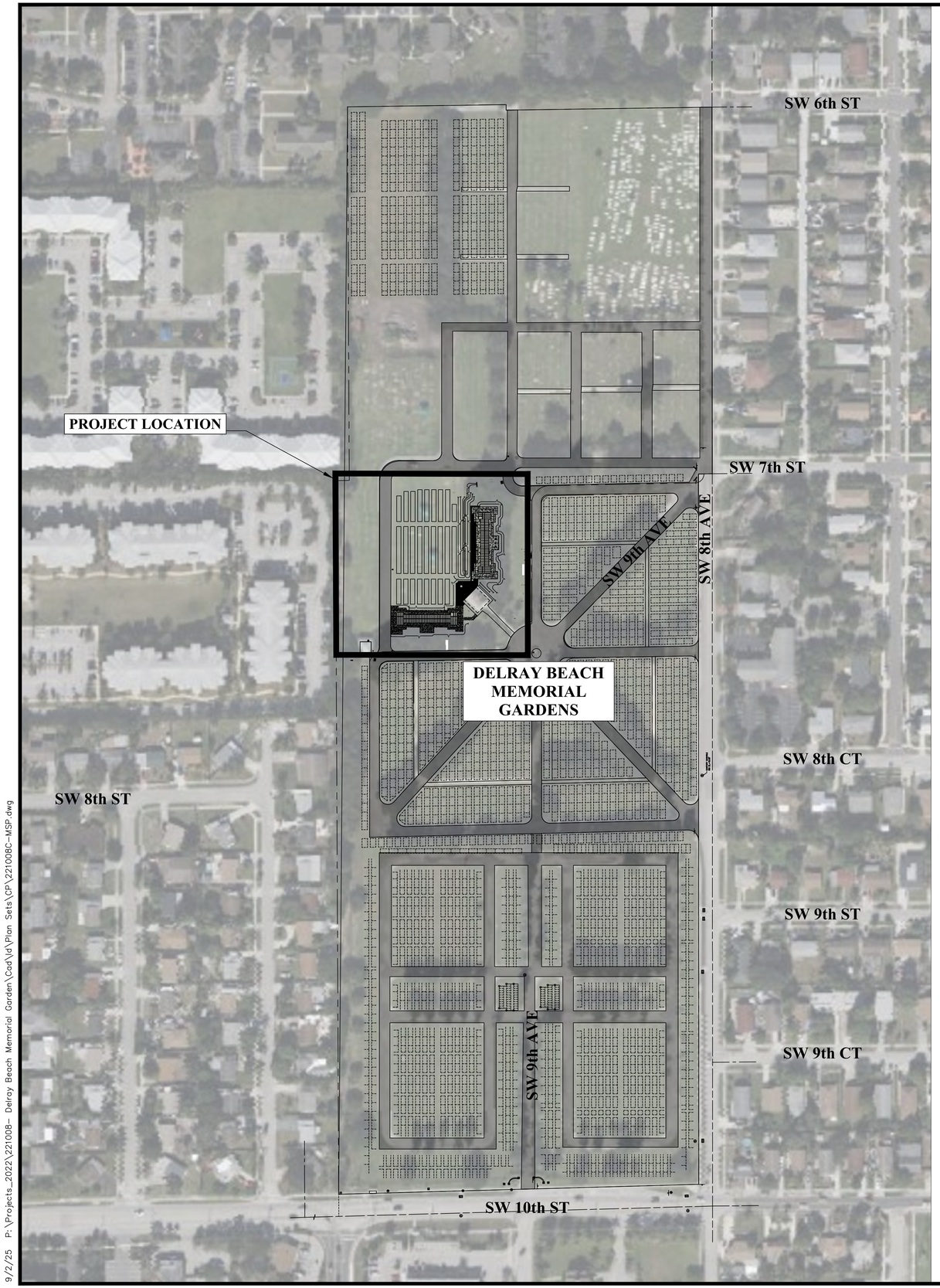

EXISTING SITE DATA

Parcel No. 12434620270010190	AREA (S.F.)	AREA (ACRES)	PERCENTAGE
GREEN SPACE	1,028,639.51	23.61	80.7%
BUILDING	1,211.12	0.03	0.1%
PAVEMENT	229,800.13	5.28	18.0%
SIDEWALK	15,308.37	0.35	1.2%
TOTAL AREA	1,274,959.13	29.27	100%

PROPOSED SITE DATA

	AREA (S.F.)	AREA (ACRES)	PERCENTAGE
GREEN SPACE	1,019,263.81	23.14	79.93%
BUILDING	4,547.00	0.36	0.4%
PAVEMENT	229,800.13	5.28	18.0%
SIDEWALK	21,348.19	0.49	1.67%
TOTAL AREA	1,274,959.13	29.27	100%

3

Property Use Type - 8900- Municipal

Parcel No.
12-43-46-20-57-001-0000
12-43-46-20-34-001-0000
12-43-46-20-01-026-0040
12-43-46-20-27-001-0190
12-43-46-20-35-012-0000
12-43-46-20-28-007-0010
12-43-46-20-63-000-0000
12-43-46-20-66-002-0000
12-43-46-20-66-001-0000
12-43-46-20-65-000-0000

0 100' 200'
FULL SCALE: 1"=100'
HALF SCALE: 1"=200'

NO	DATE	BY	APRV	REVISIONS
4	06/18/2025	RP	RR	REV. PER CITY COUNTY COMMENTS
3	04/1/2025	RP	RR	REV. PER CITY COUNTY COMMENTS
2	03/6/2025	RP	RR	REV. PER CITY COUNTY COMMENTS
1	10/4/2024	RP	RR	REV. PER COUNTY COMMENTS

CITY OF DELRAY BEACH MEMORIAL GARDENS MUNICIPAL CEMETERY

MASTER SITE PLAN

CARNAHAN PROCTOR & CROSS
CIVIL ENGINEERING | CONSTRUCTION SERVICES | GEOMATICS
814 S. MILITARY TRAIL DEERFIELD BEACH, FLORIDA 33442
PHONE: (954) 972-3959 FAX: (954) 972-4178

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CHECKED BY:	R.R.
DESIGNED BY:	S.R.

C004

ERIC J. LUIPERSBECK LICENSE No.98091 09/03/2025 STATE OF FLORIDA PROFESSIONAL ENGINEER

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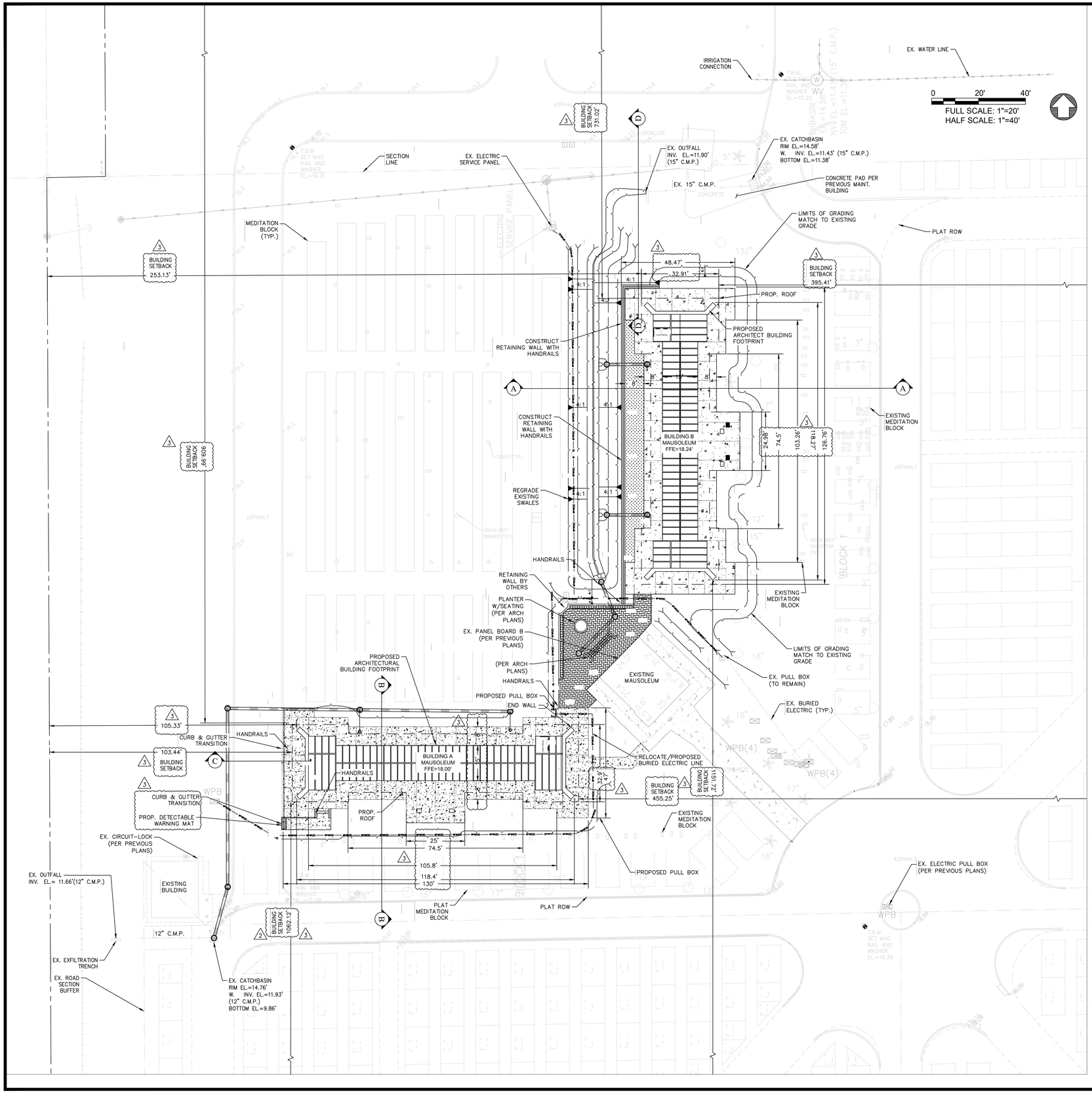

4

CROSS-SECTIONS MOVED TO SHEET C-200

MAUSOLEUMS	
NEW BUILDING (A)	
AREA OF BUILDING	1,913.4 S.F.
HEIGHT	17'-3 1/2"
BUILDING LENGTH	118'
ROOF LENGTH	127'
ROOF WIDTH	33'
NUMBER OF CRYPTS	440 CRYPTS
NUMBER OF NICHES	424 NICHES
NEW BUILDING (B)	
AREA OF BUILDING	1,913.4 S.F.
HEIGHT	17'-3 1/2"
BUILDING LENGTH	118'
ROOF LENGTH	127'
ROOF WIDTH	33'
NUMBER OF CRYPTS	440 CRYPTS
NUMBER OF NICHES	424 NICHES
COLUMBARIUM	
NEW BUILDING	
AREA OF BUILDINGS	162.4 S.F.
NUMBER OF NICHES	424 NICHES

2 3

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NO	DATE	BY	APRV	REVISIONS
4	06/18/2025	RP	RR	REV. PER CITY COUNTY COMMENTS
3	04/1/2025	RP	RR	REV. PER CITY COUNTY COMMENTS
2	03/6/2025	RP	RR	REV. PER CITY COUNTY COMMENTS
1	10/4/2024	RP	RR	REV. PER COUNTY COMMENTS

CITY OF DELRAY BEACH MEMORIAL GARDENS MUNICIPAL CEMETERY

SITE PLAN

CARNAHAN PROCTOR & CROSS
CIVIL ENGINEERING | CONSTRUCTION SERVICES | GEOMATICS
814 S. MILITARY TRAIL DEERFIELD BEACH, FLORIDA 33442
PHONE: (954) 972-3959 FAX: (954) 972-4178

FILE NO. 221008

SCALE:	
DATE:	9/2/2025
DRAWN BY:	S.R.
CHECKED BY:	R.R.
DESIGNED BY:	S.R.

C100

ERIC J. LUIPERSBECK LICENSE No.98091 09/03/2025 STATE OF FLORIDA PROFESSIONAL ENGINEER

9/2/25 P:\Projects_2022\221008- Delray Beach Memorial Garden\Cad\Cad\Plan Sets\CP\221008C-SP.dwg

0 10' 20'
FULL SCALE: 1"=10'
HALF SCALE: 1"=20

PROPOSED RETENTION AREA

PROPOSED RETAINING WALL

PROPOSED BRICK PAVER OUTDOOR AREA

PROPOSED BUILDING B

EXISTING BUILDING

PROPOSED BUILDING A

SET 5/8" I.R. W/CAP L.B. 3300 FD. 4"x4" C.M. L.B. 3591 (0.38' WEST & 0.73' NORTH)

SET 5/8" I.R. W/CAP L.B. 3300

I.B.M SET MAG NAIL AND WASHER EL.=16.31

VILLAGE SQUARE AT DELRAY BEACH (P.B. 118/122–127, P.B.C.R.)

N00°15'46"W 1290.98'

ASPHALT

CONCRETE

ELECTRIC SERVICE

WASHER WV EL.=15.22

CATCHBASIN RIM EL.=14.58 W. INV. EL.=11.1 BOTTOM EL.=11

BUILDING B MAUSOLEUM FFE=18.24'

BUILDING A MAUSOLEUM FFE=18.00'

T.B.M SET MAG NAIL AND WASHER EL.=15.08

T.B.M. SET MAG NAIL AND WASHER EL.=18.38

PLAT LINE (TYPICAL)

OUTFALL 6"(12" C.M.P.)

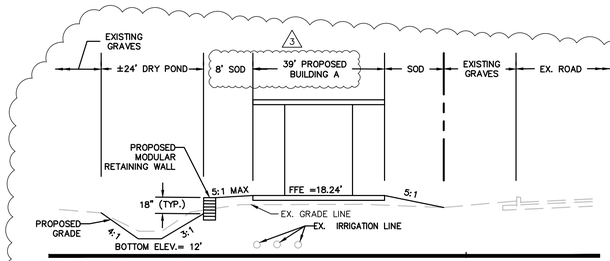
CATCHBASIN EL.=14.76 (12" C.M.P.) M EL.=9.86'

43.1'

4:1

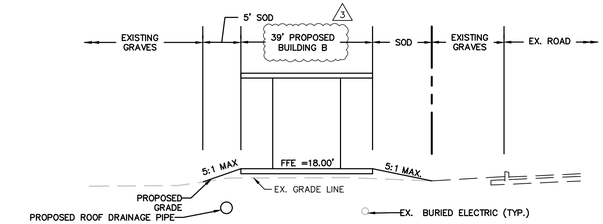
SECTION A-A

N.T.S.



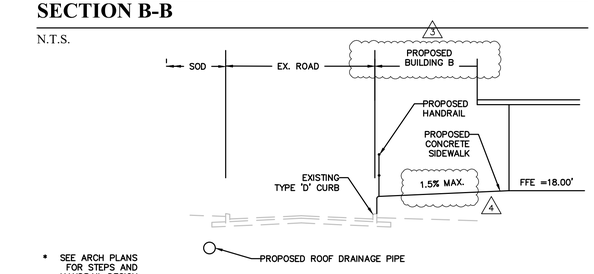
SECTION B-B

N.T.S.



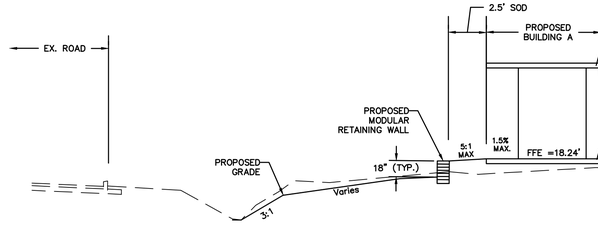
SECTION C-C

N.T.S.



SECTION D-D

N.T.S.



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CITY OF DELRAY BEACH
MEMORIAL GARDENS
MUNICIPAL CEMETERY

OVERALL GRADING & DRAINAGE PLAN

CARNAHAN PROCTOR & CROSS
CIVIL ENGINEERING | CONSTRUCTION SERVICES | GEOMATICS
814 S. MILITARY TRAIL DEERFIELD BEACH, FLORIDA 33442
PHONE: (954) 972-3989 FAX: (954) 972-4178

FILE NO. 221008

SCALE:	
DATE:	9/2/2025
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DESIGNED BY:	S.R.

C200

ERIC J. LUIPERSBECK LICENSE No.98091 09/03/2025 STATE OF FLORIDA PROFESSIONAL ENGINEER

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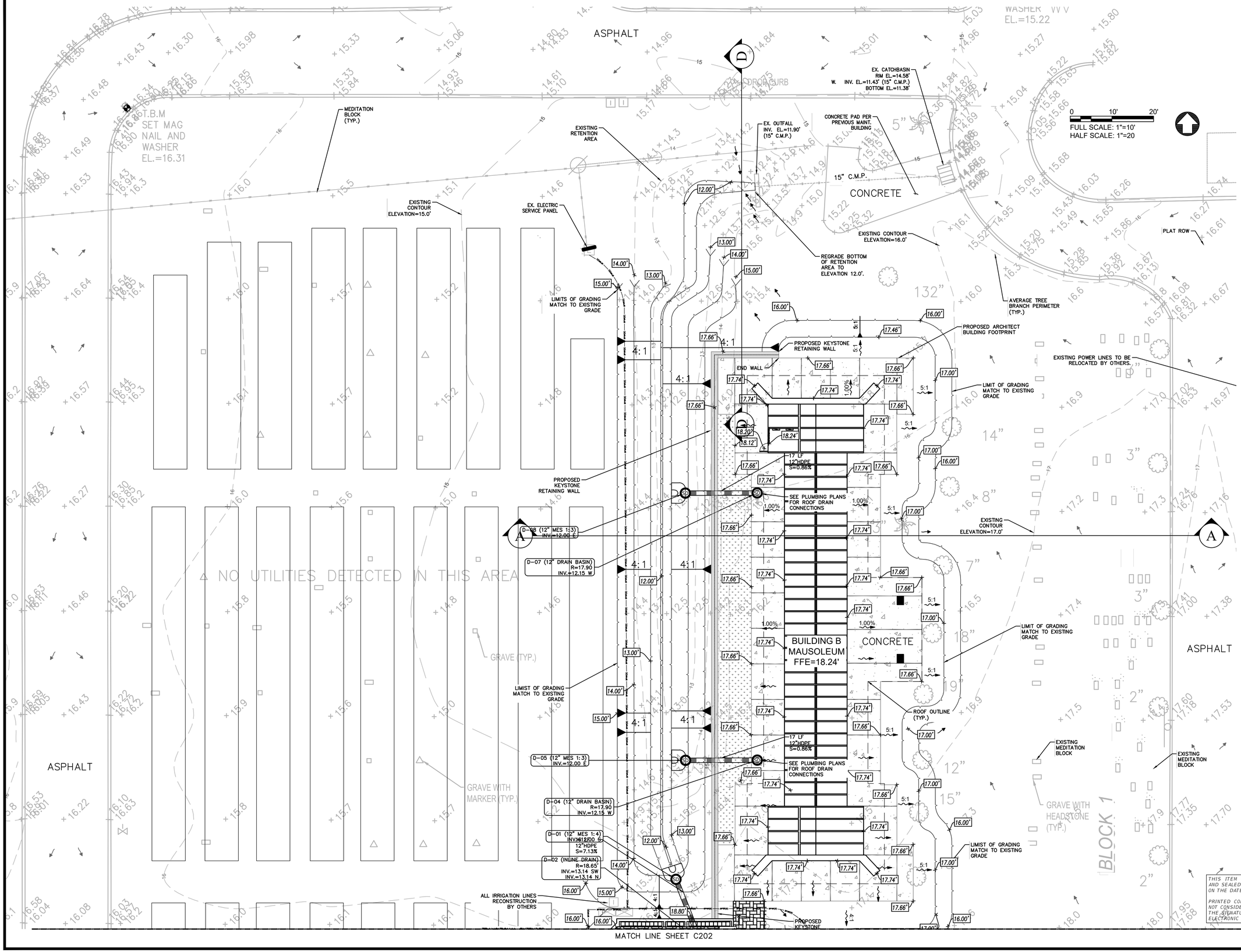

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MUNICIPAL CEMETERY

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614 S. MILITARY TRAIL DEERFIELD BEACH, FLORIDA 33442
PHONE: (954) 972-3959 FAX: (954) 972-4178

FILE NO. 221008

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C201

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FULL SCALE: 1"=10'
HALF SCALE: 1"=20

MATCH LINE SHEET C201

D-01 (12" MES 1:4)
INV.=12.00 S
12"HDPE
S=7.13%

D-02 (INLINE DRAIN)
R=18.65'
INV.=13.14 SW
INV.=13.14 N

ALL IRRIGATION LINES RECONSTRUCTION BY OTHERS

TRANSITIONAL EXTENDED FOOTER/WALL

D-03 (INLINE DRAIN)
R=18.65'
INV.=13.36 NE

EXISTING POWER LINES TO BE RELOCATED BY OTHERS.

RETAINING WALL

PROPOSED KEYSTONE RETAINING WALL

22 LF
12"HDPE
S=1.00%

SEE PLUMBING PLANS FOR ROOF DRAIN CONNECTIONS

LIMIT OF GRADING MATCH TO EXISTING GRADE

LIMITS OF GRADING MATCH TO EXISTING GRADE

EXISTING POWER LINES TO BE RELOCATED BY OTHERS.

D-11 (12" DRAIN BASIN)
R=16.11
INV.=10.25 E
INV.=10.25 S

D-10 (12" DRAIN BASIN)
R=16.58
INV.=10.48 E
INV.=10.48 W

D-09 (12" DRAIN BASIN)
R=17.35
INV.=10.74 W

HANDRAILS

S=0.40% 12"HDPE 56 LF

M.E.C.

S=0.40% 12"HDPE 64 LF

76 LF 12"HDPE S=2.00%

EXISTING U.E. TO BE RELOCATED

SEE PLUMBING PLANS FOR ROOF DRAIN CONNECTIONS

BUILDING A
MAUSOLEUM
FFE=18.00'

SEE PLUMBING PLANS FOR ROOF DRAIN CONNECTIONS

CONCRETE

3 RISERS @ 7"

RELOCATE BURIED ELECTRIC (TYP.)

PROPOSED BURIED ELECTRIC (TYP.)

LIMIT OF GRADING MATCH TO EXISTING GRADE

LIMITS OF GRADING MATCH TO EXISTING GRADE

LIMIT OF GRADING MATCH TO EXISTING GRADE

EXISTING MEDITATION BLOCK

PLAT MEDITATION BLOCK

PLAT ROW

D-12 (12" DRAIN BASIN)
R=15.63
INV.=9.95 N
INV.=9.95 S

EX-01 (CATCHBASIN)
INV.=9.86 N
RIM EL.=14.76'
W. INV. EL.=11.93' (12" C.M.P.)
BOTTOM EL.=9.86'

T.B.M
SET MAG NAIL AND WASHER
EL.=15.08

T.B.M.
SET MAG NAIL AND WASHER
EL.=18.38

BLOCK 1

WPB(4)

CONCRETE

ASPHALT

WPB

ASPHALT

CATCHBASIN
M EL.=14.76'
(12" C.M.P.)
OM EL.=9.86'

AT LINE
YPICAL)

M.P.

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CITY OF DELRAY BEACH
MEMORIAL GARDENS
MUNICIPAL CEMETERY

GRADING & DRAINAGE PLAN

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PHONE: (954) 972-3959 FAX: (954) 972-4178

FILE NO. 221008

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C202

ERIC J. LUIPERSBECK LICENSE No.98091 09/03/2025 STATE OF FLORIDA PROFESSIONAL ENGINEER

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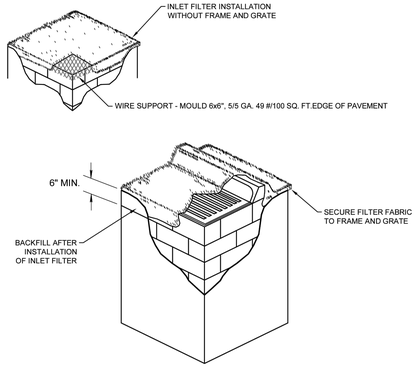


NOT TO SCALE

NOTES:

1. CONTRACTOR IS TO CLEAN INLET FILTER AFTER EVERY STORM.
2. CONTRACTOR TO REMOVE FABRIC JUST PRIOR TO PAVING.

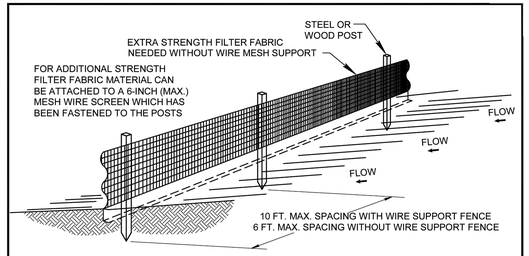
A SEDIMENT TRAP WILL BE EXCAVATED BEHIND THE CURB AT THE INLET. THE BASIN SHALL BE AT LEAST 12 TO 14 INCHES IN DEPTH, APPROXIMATELY 36 INCHES IN WIDTH, AND APPROXIMATELY 7 TO 10 FEET IN LENGTH PARALLEL TO THE CURB.

STORM WATER WILL REACH THE SEDIMENT TRAP VIA CURB CUTS ADJACENT TO EACH SIDE OF THE INLET STRUCTURE. THESE OPENINGS SHALL BE AT LEAST 12 INCHES IN LENGTH. STORM WATER MAY ALSO REACH THE BASIN VIA OVERLAND FLOW LAND AREA BEHIND THE CURB. THE CURB CUTS SHALL BE REPAIRED WHEN THE SEDIMENT TRAP IS REMOVED.

CITY of DELRAY BEACH PUBLIC WORKS DEPARTMENT 434 SOUTH SWINTON AVENUE, DELRAY BEACH, FLORIDA 33444	INLET FILTER DETAIL	DATE: 10-04-2024 D10.0

1. THE INTENT OF EROSION CONTROL MEASURES INDICATED GRAPHICALLY ON PLANS IS TO PROVIDE A BARRIER TO CONTAIN SILT AND SEDIMENT ON THE PROJECT SITE. THIS REPRESENTATION IS PROVIDED FOR THE CONVENIENCE OF THE CONTRACTOR. THE TEST OF EROSION CONTROL EFFECTIVENESS IS NOT TO BE DETERMINED BY ADHERENCE TO THE REPRESENT SET FORTH ON THE DRAWINGS AND SPECIFICATIONS, BUT BY MEETING THE REGULATIONS SET FORTH BY THE AUTHORITY HAVING JURISDICTION OVER WATER QUALITY CONTROL AND OTHER SEDIMENTATION RESTRICTION REQUIREMENTS IN THE REGION.
2. APPROVED EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PRIOR TO ANY CLEARING GRADING, EXCAVATION, FILLING, OR OTHER LAND DISTURBANCE ACTIVITIES, EXCEPT THOSE OPERATIONS NEEDED TO INSTALL SUCH MEASURES.
3. INSPECTION OF ALL EROSION CONTROL MEASURES SHALL BE CONDUCTED WEEKLY, OR AFTER EACH RAINFALL EVENT. REPAIR, AND/OR REPLACEMENT OF SUCH MEASURES SHALL BE MADE PROMPTLY, AS NEEDED.
4. KEEP DUST WITHIN TOLERABLE LIMITS BY SPRINKLING OR OTHER ACCEPTABLE MEANS.
5. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES MAY BE REQUIRED IF DEEMED NECESSARY BY ONSITE INSPECTION.
6. FAILURE TO PROPERLY INSTALL AND MAINTAIN EROSION CONTROL PRACTICES SHALL RESULT IN CONSTRUCTION BEING HALTED.
7. DRAINAGE INLETS SHALL BE PROTECTED BY FILTER AND GRADED ROCK AS PER INLET PROTECTION DETAIL.
8. ANY ACCESS ROUTES TO SITE SHALL BE BASED WITH CRUSHED STONE, WHERE PRACTICAL.
9. EROSION CONTROL MEASURES ARE TO BE MAINTAINED UNTIL PERMANENT GROUND COVER IS ESTABLISHED.
10. WHENEVER FEASIBLE, NATURAL VEGETATION SHALL BE RETAINED AND PROTECTED.
11. ALL WORK IS TO BE IN COMPLIANCE WITH THE RULES AND REGULATIONS SET FORTH BY THE STATE OF FLORIDA, DEPARTMENT OF ENVIRONMENTAL PROTECTION AND THE CITY OF DELRAY BEACH.
12. DISCHARGE FROM DEWATERING OPERATIONS SHALL BE RETAINED ONSITE IN A CONTAINMENT AREA.

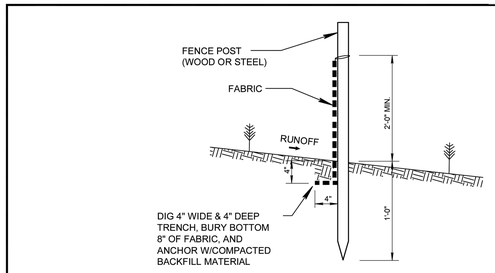
CITY of DELRAY BEACH PUBLIC WORKS DEPARTMENT 434 SOUTH SWINTON AVENUE, DELRAY BEACH, FLORIDA 33444	EROSION CONTROL NOTES DETAIL	DATE: 10-04-2024 D 11.0



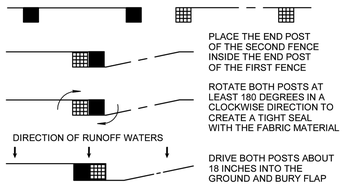
NOTES:

1. THE HEIGHT OF A SILT FENCE SHALL NOT EXCEED 36 INCHES.
2. THE FILTER FABRIC SHALL BE PURCHASED IN A CONTINUOUS ROLL CUT TO THE LENGTH OF THE BARRIER TO AVOID THE USE OF JOINTS.
3. POSTS SHALL BE SPACED A MAXIMUM OF 10 FEET APART AT THE BARRIER LOCATION AND DRIVEN SECURELY INTO THE GROUND A MINIMUM OF 12 INCHES. WHEN EXTRA STRENGTH FABRIC IS USED WITHOUT THE WIRE SUPPORT FENCE, POST SPACING SHALL NOT EXCEED 6 FEET.
4. A TRENCH SHALL BE EXCAVATED APPROXIMATELY 4 INCHES WIDE AND 4 INCHES DEEP ALONG THE LINE OF POSTS AND UPSLOPE FROM THE BARRIER.
5. WHEN STANDARD STRENGTH FILTER FABRIC IS USED, A WIRE MESH SUPPORT FENCE SHALL BE FASTENED SECURELY TO THE UPSLOPE SIDE OF THE POSTS USING HEAVY DUTY WIRE STAPLES AT LEAST 1 INCH LONG, TIE WIRES, OR HOG RINGS. THE WIRE SHALL EXTEND INTO THE TRENCH A MINIMUM OF 2 INCHES AND SHALL NOT EXTEND MORE THAN 36 INCHES ABOVE THE ORIGINAL GROUND SURFACE.
6. THE STANDARD STRENGTH FILTER FABRIC SHALL BE STAPLED OR WIRED TO THE FENCE, AND 8 INCHES OF THE FABRIC SHALL BE EXTENDED INTO THE TRENCH. THE FABRIC SHALL NOT EXTEND MORE THAN 36 INCHES ABOVE THE ORIGINAL GROUND SURFACE.
7. THE TRENCH SHALL BE BACKFILLED AND THE SOIL COMPACTED OVER THE FILTER FABRIC.
8. ALL PROJECTS REQUIRE SUBMITTAL OF POLLUTION PREVENTION PLAN (PPP).
9. ALL PROJECTS 1 AC. OR MORE MUST SUBMIT NOTICE OF INTENT (NOI) TO FDEP.

CITY of DELRAY BEACH PUBLIC WORKS DEPARTMENT 434 SOUTH SWINTON AVENUE, DELRAY BEACH, FLORIDA 33444	SILT FENCE INSTALLATION DETAIL (SHEET 1 of 2)	DATE: 10-04-2024 D12.0

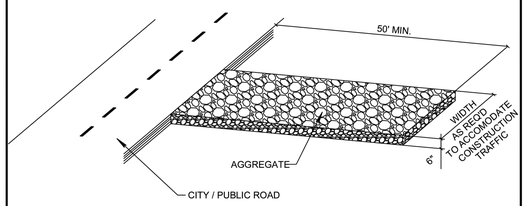


SILT FENCE SECTION
NOT TO SCALE



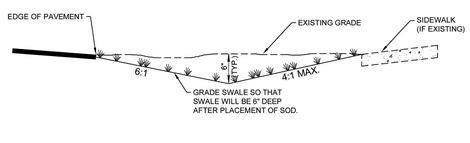
ATTACHING TWO SILT FENCES
NOT TO SCALE

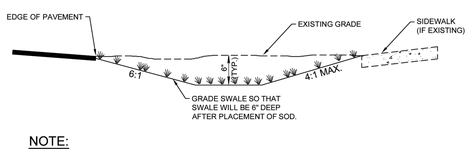
CITY of DELRAY BEACH PUBLIC WORKS DEPARTMENT 434 SOUTH SWINTON AVENUE, DELRAY BEACH, FLORIDA 33444	SILT FENCE INSTALLATION DETAIL (SHEET 2 OF 2)	DATE: 10-04-2024 D 12.1



NOTE:
A CONSTRUCTION ENTRANCE SHALL BE CONSTRUCTED AND CONTAIN AN AGGREGATE LAYER (FDOT AGGREGATE NO.1), AT LEAST 6-INCHES THINK. IT MUST EXTEND TO THE WIDTH OF THE VEHICULAR INGRESS AND EGRESS AREA.

CITY of DELRAY BEACH PUBLIC WORKS DEPARTMENT 434 SOUTH SWINTON AVENUE, DELRAY BEACH, FLORIDA 33444	STABILIZED CONSTRUCTION ENTRANCE DETAIL	DATE: 10-04-2024 D 13.0

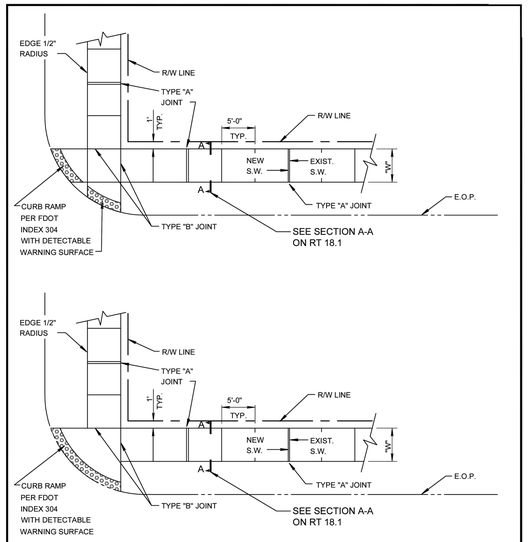




NOTE:

1. CONTRACTOR TO REPLACE ALL IRRIGATION, TREES & SHRUBBERY IN SWALES DAMAGED DURING CONSTRUCTION.

CITY of DELRAY BEACH PUBLIC WORKS DEPARTMENT 434 SOUTH SWINTON AVENUE, DELRAY BEACH, FLORIDA 33444	SWALE REPLACEMENT DETAIL	DATE: 10-04-2024 D 14.0



PLAN

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CITY of DELRAY BEACH PUBLIC WORKS DEPARTMENT 434 SOUTH SWINTON AVENUE, DELRAY BEACH, FLORIDA 33444	SIDEWALK CONSTRUCTION DETAIL	DATE: 10-04-2024 RT 18.0

NO	DATE	BY	APRV	REVISIONS
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1	10/4/2024	RP	RR	REV. PER COUNTY COMMENTS

CITY OF DELRAY BEACH
MEMORIAL GARDENS
MUNICIPAL CEMETERY

SITE DETAILS

CARVAHAN PROCTOR & CROSS
CIVIL ENGINEERING | CONSTRUCTION SERVICES | GEOMATICS
614 S. MILITARY TRAIL DEERFIELD BEACH, FLORIDA 33442
PHONE: (954) 972-3959 FAX: (954) 972-4778

FILE NO. 221008

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DRAWN BY:	S.R.
CHECKED BY:	R.R.
DESIGNED BY:	S.R.

C900

ERIC J. LUIPERSBECK
LICENSE
No.98091
09/03/2025
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

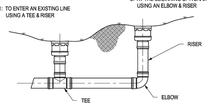
9/2/25 P:\Projects_2022\221008- Delray Beach Memorial Garden\Cad\d\Plan Sets\CP\221008C-DT.dwg

WHEN ARE INLINE DRAINS USED?

2708AG _ _ X
2710AG _ _ X
2712AG _ _ X
2715AG _ _ X
2718AG _ _ X
2724AG _ _ X
2730AG _ _ X

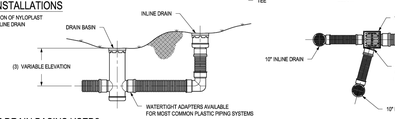
1: TO ENTER AN EXISTING LINE USING A TEE & RISER

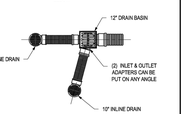
2: AT THE BEGINNING OF A DRAIN LINE USING AN ELBOW & RISER



TYPICAL INSTALLATIONS

TYPICAL INSTALLATION OF NYLOPLAST DRAIN BASIN AND INLINE DRAIN





WHEN ARE DRAIN BASINS USED?

2806AG _ _ X
2812AG _ _ X
2812AG _ _ X
2815AG _ _ X
2818AG _ _ X
2824AG _ _ X
2830AG _ _ X
2836AG _ _ X

1: TO CHANGE ELEVATION

2: TO CHANGE PIPE DIAMETER

3: TO CHANGE PIPE TYPE

4: FOR SHALLOW APPLICATIONS

5: TO CHANGE DIRECTION

1 - STRUCTURES & ADAPTERS AVAILABLE IN SIZES 8" - 36"
2 - ADAPTERS CAN BE MOUNTED ON ANY ANGLE 0° TO 360°, TO DETERMINE MINIMUM ANGLE BETWEEN ADAPTERS SEE DRAWING NO. 7001-110-012
3 - DRAIN BASINS TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS. CONTACT NYLOPLAST FOR BASINS OVER 84" DUE TO SHIPPING RESTRICTIONS SEE DRAWING NO. 7001-110-007
4 - REDUCING CONES DOWN TO 30" DIAMETER WILL BE REQUIRED FOR 36" DRAIN BASINS.

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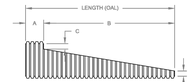
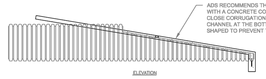
DRAWN BY: ANN | MATERIAL:
DATE: 9-10-15
REVISED BY: NMH | PROJECT NO./NAME:
DATE: 11-2-15
DWG SIZE: A | SCALE: 1:40 | SHEET: 1 OF 1 | DWG NO.: 7001-110-042 | REV: E
TITLE: 8 IN - 36 IN TYPICAL INSTALLATION OPTIONS

ADS Nyloplast
3126 VERONA AVE
BUFORD, GA 30518
PHN (770) 932-2440
FAX (770) 932-2446
www.nyloplast-us.com

PIPE SIZE	2:1 SLOPE					3:1 SLOPE					4:1 SLOPE					6:1 SLOPE				
	A	B	C	D	OAL	A	B	C	D	OAL	A	B	C	D	OAL	A	B	C	D	OAL
12" (300mm)	8" (200mm)	12" (305mm)	3" (76mm)	3" (76mm)	20" (508mm)	8" (200mm)	16" (406mm)	3" (76mm)	3" (76mm)	28" (660mm)	8" (200mm)	24" (610mm)	3" (76mm)	3" (76mm)	32" (813mm)	8" (200mm)	36" (914mm)	3" (76mm)	3" (76mm)	44" (1118mm)
15" (375mm)	9.75" (248mm)	14.6" (375mm)	4" (102mm)	4" (102mm)	24.5" (622mm)	9.75" (248mm)	22" (559mm)	4" (102mm)	4" (102mm)	31.5" (800mm)	9.75" (248mm)	29.4" (747mm)	4" (102mm)	4" (102mm)	39.1" (993mm)	9.75" (248mm)	41.6" (1057mm)	4" (102mm)	4" (102mm)	51.4" (1306mm)
18" (450mm)	12" (300mm)	21" (533mm)	4.2" (107mm)	4" (102mm)	33" (838mm)	12" (300mm)	32" (813mm)	4.2" (107mm)	4" (102mm)	42" (1067mm)	12" (300mm)	39" (991mm)	4.2" (107mm)	4" (102mm)	51" (1295mm)	12" (300mm)	52" (1321mm)	4.2" (107mm)	4" (102mm)	72" (1829mm)
24" (600mm)	16" (406mm)	24" (609mm)	6" (152mm)	6" (152mm)	42" (1067mm)	16" (406mm)	40" (1016mm)	6" (152mm)	6" (152mm)	52" (1321mm)	16" (406mm)	48" (1220mm)	6" (152mm)	6" (152mm)	64" (1626mm)	16" (406mm)	72" (1829mm)	6" (152mm)	6" (152mm)	88" (2235mm)
30" (750mm)	16" (406mm)	36" (914mm)	6" (152mm)	6" (152mm)	52" (1321mm)	16" (406mm)	60" (1524mm)	6" (152mm)	6" (152mm)	72" (1829mm)	16" (406mm)	72" (1829mm)	6" (152mm)	6" (152mm)	88" (2235mm)	16" (406mm)	108" (2743mm)	6" (152mm)	6" (152mm)	124" (3150mm)
36" (900mm)	16.5" (419mm)	48.1" (1222mm)	6.9" (175mm)	6" (152mm)	64.6" (1641mm)	16.5" (419mm)	73.9" (1877mm)	6.9" (175mm)	6" (152mm)	93.3" (2369mm)	16.5" (419mm)	96.9" (2461mm)	6.9" (175mm)	6" (152mm)	115.4" (2930mm)					
42" (1067mm)	17.5" (445mm)	64.4" (1636mm)	5.2" (132mm)	8" (203mm)	82" (2083mm)	17.5" (445mm)	73.9" (1877mm)	5.2" (132mm)	8" (203mm)	111.7" (2837mm)	17.5" (445mm)	122.8" (3119mm)	5.2" (132mm)	8" (203mm)	140.5" (3569mm)					
48" (1220mm)	17.5" (445mm)	76.1" (1933mm)	5.4" (137mm)	8" (203mm)	93.6" (2377mm)	17.5" (445mm)	111.2" (2824mm)	5.4" (137mm)	8" (203mm)	128.7" (3269mm)	17.5" (445mm)	146.4" (3718mm)	5.4" (137mm)	8" (203mm)	165.5" (4193mm)					
60" (1524mm)	12" (300mm)	100.6" (2555mm)	3.6" (91mm)	8" (203mm)	113.6" (2886mm)															

** REFERENCE ONLY - DIMENSIONS MAY VARY **





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ADVANCED DRAINAGE SYSTEMS, INC. ("ADS") HAS PREPARED THIS DETAIL BASED ON INFORMATION PROVIDED TO ADS. THIS DRAWING IS INTENDED TO DEPICT THE COMPONENTS AS REQUESTED. ADS HAS NOT PERFORMED ANY ENGINEERING OR DESIGN SERVICES FOR THIS PROJECT, NOR HAS ADS INDEPENDENTLY VERIFIED THE INFORMATION SUPPLIED. THE INSTALLATION DETAILS PROVIDED HEREIN ARE GENERIC AND ARE NOT PROJECT SPECIFIC. IT IS THE ENGINEER OF RECORD'S RESPONSIBILITY TO REVIEW THESE DETAILS PRIOR TO CONSTRUCTION. IT IS THE DESIGN ENGINEERS RESPONSIBILITY TO ENSURE THAT THE DETAILS PROVIDED HEREIN ARE ADEQUATE FOR THIS PROJECT.

REV	DESCRIPTION	BY	MM/DD/YY	CHK'D
4	UPDATED TABLE AND RENAMED	WWL	02/10/16	

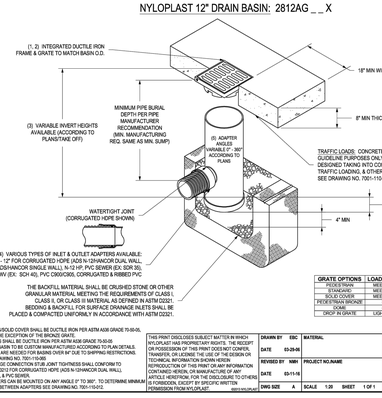
DRAWING NUMBER: STD—301

WITHERED END SECTION DETAIL

ADS
4640 TRUEMAN BLVD
HILLIARD, OHIO 43026
ADVANCED DRAINAGE SYSTEMS, INC.

DESIGN BY: KRISOF
DRAWN BY: KRISOF
APP'D BY: WWL
SCALE: NTS
SHEET: 1 OF 1

NYLOPLAST 12" DRAIN BASIN: 2812AG _ _ X



GRATE OPTIONS	LOAD RATING	PART #	DRAWING #
PEDESTRIAN	MEETS N-12	1299CGP	7001-110-302
STANDARD	MEETS N-20	1299CGS	7001-110-203
SOLID COVER	MEETS N-20	1299CSC	7001-110-204
PEDESTRIAN BRONZE	N/A	1299CGPB	7001-110-305
DOME	N/A	1299CVD	7001-110-206
DROP IN GRATE	LIGHT DUTY	12DCS	7001-110-021

1 - GRATES/SOLID COVER SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-60-05, WITH THE EXCEPTION OF THE BRONZE GRATE.
2 - FRAMES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
3 - DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS. RISERS ARE NEEDED FOR BASINS OVER 84" DUE TO SHIPPING RESTRICTIONS SEE DRAWING NO. 7001-110-065
4 - DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS N-12/HANCOR DUAL WALL), N-12 HP, & PVC SEWER.
5 - ADAPTERS CAN BE MOUNTED ON ANY ANGLE 0° TO 360°, TO DETERMINE MINIMUM ANGLE BETWEEN ADAPTERS SEE DRAWING NO. 7001-110-012

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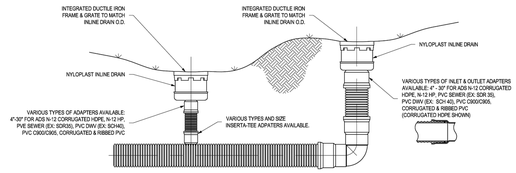
DRAWN BY: EBC | MATERIAL:
DATE: 03-25-05
REVISED BY: NMH | PROJECT NO./NAME:
DATE: 03-11-16
DWG SIZE: A | SCALE: 1:20 | SHEET: 1 OF 1 | DWG NO.: 7001-110-109 | REV: E
TITLE: 12 IN DRAIN BASIN QUICK SPEC INSTALLATION DETAIL

ADS Nyloplast
3126 VERONA AVE
BUFORD, GA 30518
PHN (770) 932-2440
FAX (770) 932-2446
www.nyloplast-us.com

NYLOPLAST INLINE DRAIN SYSTEM USING INSERTA-TEE CONNECTION



1 - GRATES/SOLID COVER SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-60-05, WITH THE EXCEPTION OF THE BRONZE GRATE.
2 - FRAMES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
3 - DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS N-12/HANCOR DUAL WALL), N-12 HP, & PVC SEWER.
4 - DIMENSIONS ARE FOR REFERENCE ONLY. ACTUAL DIMENSIONS MAY VARY.
5 - ADAPTERS CAN BE ROTATED.
6 - SEE DRAWING NO. 7001-110-270 FOR ADS N-12 & HANCOR DUAL WALL BELL INFORMATION & DRAWING NO. 7001-110-364 FOR N-12 HP BELL INFORMATION.
7 - INSERTA-TEE ADAPTERS CREATE WATER TIGHT JOINT BETWEEN ADAPTER AND MAINLINE PIPE.

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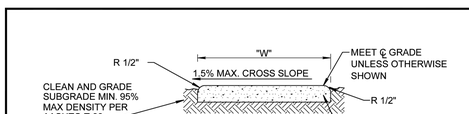
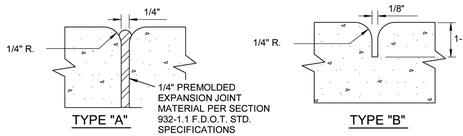
DRAWN BY: NMH | MATERIAL:
DATE: 02-07-17
APP'D BY: NMH | PROJECT NO./NAME:
DATE: 02-07-17
DWG SIZE: A | SCALE: 1:20 | SHEET: 1 OF 1 | DWG NO.: 7003-110-116 | REV: A
TITLE: NYLOPLAST INLINE DRAIN SYSTEM USING INSERTA-TEE CONNECTION

Nyloplast
3126 VERONA AVE
BUFORD, GA 30518
PHN (770) 932-2440
FAX (770) 932-2446
www.nyloplast-us.com



SECTION A-A



TYPE "A" TYPE "B"

SIDEWALK JOINTS

NOTE:
1. ALL SIDEWALKS SHALL BE CONSTRUCTED THRU DRIVEWAYS.
2. ALL SIDEWALKS SHALL INCLUDE ADA COMPLIANT RAMPS @ INTERSECTIONS.
3. ALL SIDEWALKS SHALL INCLUDE CROSS SLOPE AND RUNNING SLOPE IN ACCORDANCE WITH ADA REQUIREMENTS.
4. CURB RAMP DETECTABLE WARNING SURFACE SHALL EXTEND THE FULL WIDTH OF THE RAMP AND 24" DEEP.
5. SIDEWALK SHALL BE 9" THICK FOR 2' AT THE CONNECTION TO ROADWAYS WITH A 6" TRANSITION TO 6" FOR THE REMAINDER OF THE REQUIRED 10'.

TABLE OF SIDEWALK THICKNESS - "T"	
GENERAL AREAS	4"
WITHIN 10' OF CROSS-STREETS, AT DRIVEWAYS & OTHER AREAS	6"

TABLE OF SIDEWALK WIDTHS - "W"	
SINGLE-FAMILY AREAS	5'
MULTI-FAMILY AREAS	5'
OTHER AREAS AS SPECIFIED BY THE CITY.	

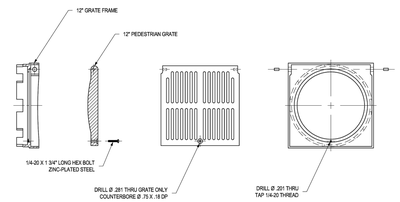
TABLE OF SIDEWALK JOINTS	
TYPE	LOCATION
"A"	P.C. AND P.T. OF CURVES JUNCTION OF EXISTING & NEW SIDEWALKS & EVERY 30'
"B"	5'-0" CENTER TO CENTER ON SIDEWALKS SCORED DURING PLACEMENT OR SAWCUT WITHIN 24 HOURS OF PLACEMENT.
"A"	WHERE SIDEWALK ABUTS CONCRETE CURBS, DRIVEWAYS, AND SIMILAR STRUCTURES.

CITY of DELRAY BEACH
PUBLIC WORKS DEPARTMENT
434 SOUTH SWINTON AVENUE, DELRAY BEACH, FLORIDA 33444

SIDEWALK CONSTRUCTION

DATE: 10-04-2024
RT 18.1

1299CGPL



NOTE: LOCATION OF LOCKING DEVICE MAY VARY

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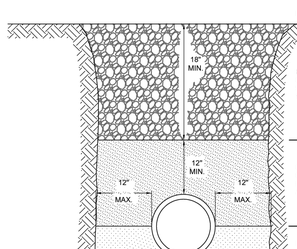
DRAWN BY: ANN | MATERIAL:
DATE: 7-5-00
REVISED BY: EBC | PROJECT NO./NAME:
DATE: 2-20-15
DWG SIZE: A | SCALE: 1:8 | SHEET: 1 OF 1 | DWG NO.: 7001-110-034 | REV: C
TITLE: 12 IN PEDESTRIAN LOCKING GRATE ASSEMBLY

ADS Nyloplast
3126 VERONA AVE
BUFORD, GA 30518
PHN (770) 932-2440
FAX (770) 932-2446
www.nyloplast-us.com

EXISTING GROUND



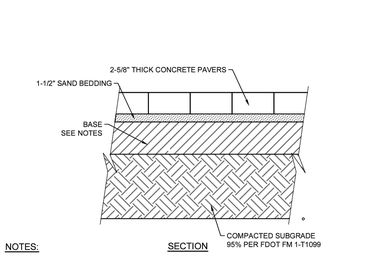
NOTES:

1. UNSUITABLE IN-SITU MATERIALS SUCH AS MUCK, DEBRIS AND LARGE ROCKS SHALL BE REMOVED OFF SITE AND DISPOSED IN A PROPER LANDFILL. BEDDING MATERIAL AND BACKFILL CONSISTING OF WASHED AND GRADED LIMEROCK 3/8" -7/8" SIZING.
2. THE PIPE AND/OR STRUCTURE SHALL BE FULLY SUPPORTED FOR ITS ENTIRE LENGTH WITH
3. APPROPRIATE COMPACTION UNDER THE PIPE HAUNCHES.
4. THE PIPE AND/OR STRUCTURE SHALL BE PLACED IN A DRY TRENCH.
5. BACKFILL SHALL BE FREE OF UNSUITABLE MATERIAL SUCH AS LARGE ROCK, MUCK, AND DEBRIS.
6. COMPACT BACKFILL TO 98% DENSITY UNDER PAVEMENT AND TO 95% DENSITY ELSEWHERE PER (AASHTO T-180)
7. COMPACTION AND DENSITY TESTS SHALL BE COMPLETED DURING BACKFILL OPERATIONS, CONTRACTORS NOT FOLLOWING THIS PROCEDURE, FOR WHATEVER REASONS, SHALL BE REQUIRED TO RE-EXCAVATE THE AREA IN QUESTION, DOWN TO THE BEDDING MATERIAL, THEN BACKFILL FOLLOWING THE ABOVE PROCEDURES.

CITY of DELRAY BEACH
PUBLIC WORKS DEPARTMENT
434 SOUTH SWINTON AVENUE, DELRAY BEACH, FLORIDA 33444

TYPICAL BACKFILL DETAIL

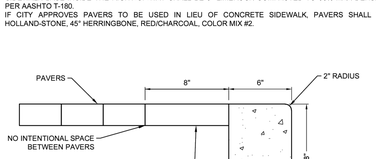
DATE: 10-04-2024
GU 2.0



SECTION

NOTES:

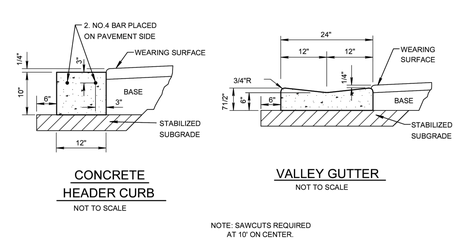
1. SIDEWALK BASE OUTSIDE OF THE RIGHT-OF-WAY SHALL BE 4" LIMEROCK COMPACTED TO 98% MAX DENSITY PER AASHTO T-180.
2. SIDEWALK BASE INSIDE THE RIGHT-OF-WAY SHALL BE 6" LIMEROCK COMPACTED TO 98% MAX DENSITY PER AASHTO T-180.
3. IF CITY APPROVES PAVERS TO BE USED IN LIEU OF CONCRETE SIDEWALK, PAVERS SHALL BE HOLLAND-STONE, 45° HERRINGBONE, RED/CHARCOAL, COLOR MIX #2.



CITY of DELRAY BEACH
PUBLIC WORKS DEPARTMENT
434 SOUTH SWINTON AVENUE, DELRAY BEACH, FLORIDA 33444

SIDEWALK PAVER BRICK SECTION

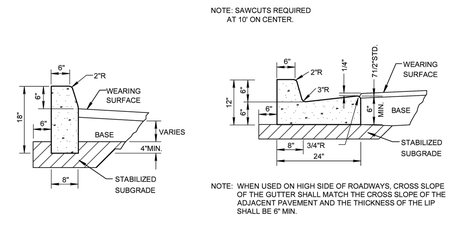
DATE: 10-04-2024
RT 26.0



CONCRETE HEADER CURB
NOT TO SCALE

VALLEY GUTTER
NOT TO SCALE

NOTE: SAWCUTS REQUIRED AT 10' ON CENTER.



F.D.O.T. TYPE "D" CONCRETE CURB
NOT TO SCALE

F.D.O.T. TYPE "F" CONCRETE CURB AND GUTTER
NOT TO SCALE

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

NOTES: 1. ROADWAY SUBGRADE SHALL IN ALL CASES EXTEND BELOW CURBING.
2. SAWCUTS AT 10' ON CENTER SHALL BE MADE WITHIN 24 HOURS OF CONCRETE PLACEMENT.

CITY of DELRAY BEACH
PUBLIC WORKS DEPARTMENT
434 SOUTH SWINTON AVENUE, DELRAY BEACH, FLORIDA 33444

CURB AND GUTTER SECTIONS

DATE: 10-04-2024
RT 19.0

NO	DATE	BY	REVISIONS
4	06/16/2025	RP	REV. PER CITY COUNTY COMMENTS
3	04/1/2025	RP	REV. PER CITY COUNTY COMMENTS
2	03/6/2025	RP	REV. PER CITY COUNTY COMMENTS
1	10/4/2024	RP	REV. PER COUNTY COMMENTS

CITY OF DELRAY BEACH
MEMORIAL GARDENS
MUNICIPAL CEMETERY

SITE DETAILS

CARVAHAN PROCTOR & CROSS
CIVIL ENGINEERING | CONSTRUCTION SERVICES | GEOMATICS
614 S. MILITARY TRAIL DEERFIELD BEACH, FLORIDA 33442
PHONE: (954) 972-3959 FAX: (954) 972-4778

FILE NO. 221008

SCALE:
DATE: 9/2/2025
DRAWN BY: S.R.
CHECKED BY: R.R.
DESIGNED BY: S.R.

C901

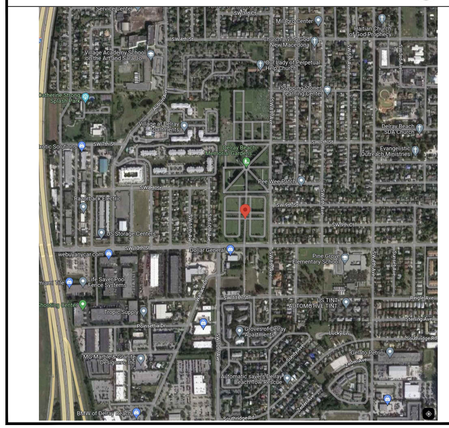
ERIC J. LUIPERSBECK LICENSE No.98091 STATE OF FLORIDA PROFESSIONAL ENGINEER

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY ERIC J. LUIPERSBECK, P.E. ON THE DATE ADJACENT TO THE SEAL.
PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES

09/03/2025

9/2/25 P:\Projects_2022\221008- Delray Beach Memorial Garden\Cad\d\Plan Sets\CP \221008C-DT.dwg

LOCATION MAP



PROJECT TEAM

ARCHITECTURE

SPALDING + OLSON DESIGN GROUP, LLC
27 NORTH PENNOCK LANE
UNIT 101
JUPITER, FL 33458
PHONE: +1 574 255 2422
info@spaldingdesigngroup.com
www.spaldingdesigngroup.com

ABBREVIATIONS

A	
AC.	ACOUSTICAL
A.D.	AREA DRAIN
ADJ.	ADJACENT
A.F.F.	ABOVE FINISH FLOOR
AGG.	AGGREGATE
ALT.	ALTERNATE or ALTERNATIVE
ALUM.	ALUMINUM
A.DR.	ACCESS DOOR
A.P.	ACCESS PANEL
APPROX.	APPROXIMATE(LY)
ARCH.	ARCHITECTURAL/ARCHITECT
ASPH.	ASPHALT
A.C.T.	ACOUSTICAL CEILING TILE
A.C.P.	ACOUSTICAL CEILING PANEL
B	
BD.	BOARD
BITUM.	BITUMINOUS
B.L.	BRICK LEDGE
BLDG.	BUILDING
BLK.	BLOCK
BLKG.	BLOCKING
BM.	BEAM
B.O.	BOTTOM OF
BRG.	BEARING
BSMT.	BASEMENT
B.U.R.	BUILT UP ROOFING
C	
CA.	CARPET
CAB(S)	CABINET(S)
CA.T.	CARPET TILE
CA.TV.	CABLE TELEVISION
CEM.	CEMENT
CFCI	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED
C.G.	CORNER GUARD
C.J.	CONTROL JOINT
CL.	CENTER LINE
CLG.	CEILING
CLO.	CLOSET
CLR.	CLEAR
C.M.U.	CONCRETE MASONRY UNIT
COL.	COLUMN
CONC.	CONCRETE
CONN.	CONNECTION
CONST.	CONSTRUCTION
CONT.	CONTINUOUS
CONTR.	CONTRACTOR
CORR.	CORRIDOR
C.T.	CERAMIC TILE
CW.	CASEWORK
D	
D.	DEEP
DBL.	DOUBLE
DEG.	DEGREE
DET.	DETAIL
D.F.	DRINKING FOUNTAIN
DIA.	DIAMETER
DIAG.	DIAGONAL
DIFF.	DIFFUSOR
DIM.	DIMENSION
DISP.	DISPENSER
DN.	DOWN
DR.	DOOR
DS.	DOWNSPOUT
D.T.	DRAIN TILE
DWG(S).	DRAWING(S)
DWR.	DRAWER
E	
E.	EAST
EA.	EACH
E.C.	ELECTRICAL CONTRACTOR
E.I.F.S.	EXTERIOR INSULATION FINISH SYSTEM
E.F.	EACH FACE
E.F.S.	EXTERIOR FINISH SYSTEM
E.J.	EXPANSION JOINT
EL.	ELEVATION
ELEC.	ELECTRICAL
ELEV.	ELEVATOR
ENCL.	ENCLOSURE
ENGR.	ENGINEER
E.P.	ELECTRICAL PANEL
EQ.	EQUAL
EQUIP.	EQUIPMENT
ESMT.	EASEMENT
E.W.	EACH WAY
E.W.C.	ELECTRIC WATER COOLER
EX.	EXISTING
EXH.	EXHAUST
EXP.AGG.	EXPOSED AGGREGATE
EXP.	EXPANSION
EXT.	EXTERIOR
F	
F.	FEMALE
F.A.	FIRE ALARM
F.C.U.	FAN COIL UNIT
F.D.	FLOOR DRAIN
FDN.	FOUNDATION
F.E.	FIRE EXTINGUISHER
F.E.C.	FIRE EXTINGUISHER CABINET
F.F.	FINISH FLOOR
F.G.	FINISH GRADE
F.H.	FLAT HEAD
F.H.C.	FIRE HOSE CABINET
FIN.	FINISH
FLASH.	FLASHING
FLR.	FLOOR
FLUOR.	FLUORESCENT
F.O.C.	FACE OF CONCRETE
FND.	FOUNDATION
F.P.	FABRIC PANEL
F.P.C.	FIRE PROTECTION CONTRACTOR
FR.	FRAME
F.RET.	FIRE RETARDANT
FT.	FEET (FOOT)
FTG.	FOOTING
FUR.	FURRING
FUT.	FUTURE
F.V.C.	FIRE VALVE CABINET
F.W.C.	FABRIC WALL COVERING
G	
GA.	GAGE
GALV.	GALVANIZED
G.C.	GENERAL CONTRACTOR
GL.	GLASS
GND.	GROUND
G.O.	GLASS OPENING
GR.	GRADE
G.W.B.	GYPSUM WALLBOARD
GYP.	GYPSUM
GYP.BD.	GYPSUM BOARD
H	
H.	HIGH
H.A.C.	HEATING/AIR CONDITIONING CONTRACTOR
H.B.	HOSE BIBB
HNDC.	HANDICAP
H.C.	HOLLOW CORE
HD.	HEAD
HDW.	HARDWARE
HDWD.	HARDWOOD
H.M.	HOLLOW METAL
HORIZ.	HORIZONTAL
H.P.	HIGH POINT
HR.	HOUR
HSKP.	HOUSE KEEPING
HT.	HEIGHT
HVAC	HEATING, VENTILATING AND AIR CONDITIONING
I	
I.D.	INTERIOR DESIGN
IN.	INCH
INFO.	INFORMATION
INSUL.	INSULATION
INT.	INTERIOR
J	
J.C.	JANITOR CLOSET
JST.	JOIST
JT.	JOINT
K	
KIT.	KITCHEN
L	
LAM.	LAMINATE or LAMINATED
LAV.	LAVATORY
LBR.	LUMBER
L.C.B.	LIQUID CHALK BOARD
LKR.	LOCKER
LOC.	LOCATION
L.P.	LOW POINT
LT.	LIGHT
M	
M.	MALE
MA.	MARBLE
MACH.	MACHINE
MAG.	MAGNESIUM
M.D.O.	MEDIUM DENSITY OVERLAY
MAS.	MASONRY
M.T.	MARBLE THRESHOLD
MTL.	MATERIAL
MAX.	MAXIMUM
M.B.	MOP BASIN
MECH.	MECHANICAL
MECH.CONT	MECHANICAL CONTRACTOR
MEMB.	MEMBRANE
MH.	MANHOLE
MET.	METAL
MFGR.	MANUFACTURER
MIN.	MINIMUM
MISC.	MISCELLANEOUS
M.O.	MASONRY OPENING
M.P.	MOVABLE PARTITION
MTD.	MOUNTED
MTL.	METAL
MULL.	MULLION
N	
N.	NORTH
N.I.C.	NOT IN CONTRACT
NO. OR #	NUMBER
NOM.	NOMINAL
N.T.S.	NOT TO SCALE
O	
O.A.	OVER ALL
O.C.	ON CENTER
O.D.	OUTSIDE DIAMETER
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
OFF.	OFFICE
OFOI	OWNER FURNISHED OWNER INSTALLED
OH.	OVERHEAD
O.H.	OPPOSITE HAND
OPNG.	OPENING
OPP.	OPPOSITE
OZ.	OUNCE
P	
PART.	PARTICLE
PARTN.	PARTITION
P.C.	PLUMBING CONTRACTOR
PLAS.	PLASTER
PL.	PLATE
P.LAM.	PLASTIC LAMINATE
PLBG.	PLUMBING
PLYWD.	PLYWOOD
POL.	POLISHED
PORT.	PORTABLE
PR.	PAIR
PREFAB.	PREFABRICATED
PROP.	PROPERTY
P.S.F.	POUNDS PER SQUARE FOOT
P.S.I.	POUNDS PER SQUARE INCH
PT.	PAINT
PTD.	PAINTED
Q	
Q.T.	QUARRY TILE
QTR.	QUARTER
R	
R.	RISER
RAD.	RADIUS
R.D.	ROOF DRAIN
RE:	REFER TO
REF.	REFERENCE
REFR.	REFRIGERATOR
REINF.	REINFORCING or REINFORCEMENT
REQD.	REQUIRED
RESIL.	RESILIENT
RET.	RETAINING
REV.	REVISION
R.F.	RESILIENT FLOORING
RM.	ROOM
RND.	ROUND
R.O.	ROUGH OPENING
REQD.	REQUIRED
R.B.	RESILIENT BASE
R.T.U.	ROOF TOP UNIT
S	
S.	SOUTH
S.A.B.	SOUND ATTENUATION BLANKET
SAN.	SANITARY
SCHED.	SCHEDULE
S.D.	SMOKE DETECTOR
SECT.	SECTION
S.F.	SQUARE FEET
S.F.T.U.	STRUCTURAL FACING TILE UNIT
SHR.	SHOWER
SHT.	SHEET
SHTG.	SHEATHING
SIM.	SIMILAR
SL.	SLATE
SND.	SOUND
S.P.	STAND PIPE
SP.D.	SOAP DISPENSER
SPEC.	SPECIFICATION
S.P.M.R.	SPANDREL
SPAN.	SQUARE
SQ.	SERVICE SINK
S.SK.	STAINLESS STEEL
ST.STL.	STANDARD
STD.	STEEL
STL.	STORAGE
STOR.	STRUCTURAL
STRUC.	STRUCTURAL
STRUCT.	SUSPENDED
SUSP.	SYMMETRICAL
SYM.	SYSTEM
SYS.	
T	
T.	TREAD
TB.	TACKBOARD
T.& B.	TOP AND BOTTOM
T.& G.	TONGUE AND GROOVE
TELE.	TELEPHONE
TEMP.	TEMPERED
TERR.	TERRAZZO
THK.	THICK
THRU.	THROUGH
TLT.	TOILET
T.O.	TOP OF
T.O.C.	
T.O.P.	TOP OF PAVEMENT
T.O.W.	TOP OF WALL
T.P.	TOILET PARTITION
TRANS.	TRANSFORMER
T.V.	TELEVISION
TYP.	TYPICAL
U	
U.C.	UNDER CUT
U.C.L.	UNDER COUNTER LIGHT
U.C.R.	UNDER COUNTER REFRIGERATOR
U.H.	UNIT HEATER
UNFIN.	UNFINISHED
U.L.	UNDERWRITERS LABORATORY
U.N.O.	UNLESS NOTED OTHERWISE
UR.	URINAL
V	
V.	VINYL
V.C.T.	VINYL COMPOSITION TILE
V.T.	VINYL TILE
VENT.	VENTILATOR
VERT.	VERTICAL
VEST.	VESTIBULE
V.T.R.	VENT THROUGH ROOF
V.S.F.	VINYL SHEET FLOORING
V.W.C.	VINYL WALL COVERING
W	
W.	WEST
W.C.	WATER CLOSET
WC.	WALL COVERING
W/(O)	WITH/(OUT)
WD.	WOOD
WIND.	WINDOW
W.GL.	WIRE GLASS
W.H.	WALL HYDRANT
W.O.M.	WALK OFF MAT
WP.	WATERPROOFING
W.P.	WORKING POINT
WSCOT.	WAINSCOT
WGT.	WEIGHT
WT.H.	WATER HEATER
W.W.F.	WELDED WIRE FABRIC
W.W.MFR.	WINDOW WALL MANUFACTURER
Y	
YD.	YARD
Y.D.	YARD DRAIN
Y.H.	YARD HYDRANT

ARCHITECTURAL GENERAL NOTES

1. DO NOT SCALE DRAWINGS, USE DIMENSIONS, DIMENSIONS NOTED "AS REQUIRED", "VERIFY", "MATCH EXISTING" OR OTHER SIMILAR TERMS ARE TO BE VERIFIED BY THE CONTRACTOR. NOTIFY ARCHITECT OF DISCREPANCIES OBTAIN CLARIFICATION FROM ARCHITECT BEFORE PROCEEDING.
2. "ALIGN" MEANS TO ALIGN FINISH MATERIALS OF ELEMENTS INDICATED.
3. FLOOR ELEVATIONS INDICATED ARE TO TOP OF CONCRETE SLAB, UNLESS NOTED OTHERWISE.
4. SHEET METAL DETAIL REFERENCES ARE TO SMACNA PLATES/FIGURES, 5TH EDITION, 1993. CORRESPONDING CONDITIONS FROM CURRENT SMACNA EDITION ARE ACCEPTABLE.

APPLICABLE CODES

- FLORIDA BUILDING CODE, 8TH EDITION (2023)
- FLORIDA MECHANICAL CODE, 8TH EDITION (2023)
- FLORIDA FUEL GAS CODE, 8TH EDITION (2023)
- FLORIDA PLUMBING CODE, 8TH EDITION (2023)
- FLORIDA ACCESSIBILITY CODE, 8TH EDITION (2023)
- FLORIDA FIRE PREVENTION CODE, 8TH EDITION
- N.F.P.A., 1; UNIFORM FIRE CODE, FLORIDA EDITION – 8TH EDITION
- N.F.P.A., 101, LIFE SAFETY CODE, FLORIDA EDITION – 8TH EDITION
- NATIONAL ELECTRICAL CODE, 2023 EDITION

MATERIALS LEGEND

- CONCRETE/ PRECAST CONCRETE
- MASONRY UNIT – PLAN
- EARTH – SECTION
- INSULATION – RIGID
- STEEL
- STUCCO – ELEVATION
  GYPSUM BOARD – SECTION DETAILS
- WOOD FRAMING OR BLOCKING
- WOOD SHIM
- PLYWOOD – SECTION
- WOOD PANELING – ELEVATION
- FINISH WOOD – SECTION
- BATT INSULATION
- AGGREGATE BASE – SECTION

PLAN LEGEND

- NEW MASONRY WALL
- NEW GYP. BD. WALL
- EXISTING PARTITION/ STRUCTURE TO REMAIN.
- EXISTING PARTITION TO BE REMOVED.
- XXX — DOOR # SAME AS ROOM # U.N.O. DOOR AND FRAME.
- EXISTING DOOR TO REMAIN.
- EXISTING DOOR TO BE REMOVED.
- BORROW LITE
- XX — WINDOW/ BORROW LITE TAG
- PROPERTY LINE
- MATCH LINE
- COLUMN LINE

SYMBOLS/ LEGEND

- VIEWNUMBER / SHEETNUMBER — SECTION DETAIL
- VIEWNUMBER / SHEETNUMBER — PLAN DETAIL OR ENLARGED PLAN
- VIEWNUMBER / SHEETNUMBER — EXTERIOR ELEVATION
- VIEWNUMBER / SHEET # / VIEWNUMBER / VIEWNUMBER — INTERIOR ELEVATION
- 123 — ROOM NUMBER
- P — PARTITION TYPE
- 12.34 — KEY NOTE
- XX — DEMOLITION NOTE
- X — REVISION
- XX — WINDOW TAG
- CEILING GRID STARTING POINT
- CEILING HEIGHT/CEILING SPOT ELEVATION
- C1A — EXISTING COLUMN BUBBLE
- C1A — NEW COLUMN BUBBLE
- N — NORTH ARROW
- 2' X 4' GRID — ACOUSTICAL CEILING PANELS AND GRID
- 2' X 2' GRID — ACOUSTICAL CEILING PANELS AND GRID
- G.W.B. CEILING (U.N.O.)
- TELEPHONE/DATA WALL OUTLET
- FLOOR RECESSED TELEPHONE/DATA OUTLET PROVIDE BRASS COVER PLATE AND CARPET FLANGE.
- TV — TV CABLE OUTLET
- DUPLEX RECEPTACLE RECESS FLOOR MOUNTED. PROVIDE BRASS COVER PLATE AND CARPET FLANGE.
- $D — DIMMER SWITCH CONNECTED TO LIGHTING CONTROL SYSTEM.
- HE — AUDIO "HEAD-END" UNIT (AMPLIFIER) (PROVIDED BY OWNER – G.C. TO COORDINATE LOCATIONS)
- S — BRACKET-MTD. SPEAKER (PROVIDED BY OWNER – G.C. TO COORDINATE LOCATIONS)
- (S) — FLUSH-MTD. SPEAKER COLOR TO MATCH ADJACENT (G.C. TO COORDINATE LOCATIONS)
- V — AUDIO VOLUME CONTROL (PROVIDED BY OWNER – G.C. TO COORDINATE LOCATIONS)
- M — WALL-MTD. MICROPHONE JACK (PROVIDED BY OWNER – G.C. TO COORDINATE LOCATIONS)

INDEX OF DRAWINGS

ARCHITECTURAL

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CS	COVER SHEET
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C-001	LANDSCAPE DETAILS
AS-001	OVERALL ARCHITECTURAL SITE PLAN
AS-002	COLUMBARIUM SITE PLAN
A-100	FIRST FLOOR MAUSOLEUM PLAN
A-101	ENLARGED FIRST FLOOR MAUSOLEUM PLAN
A-102	ENLARGED FIRST FLOOR MAUSOLEUM PLAN
A-103	MAUSOLEUM ROOF PLAN
A-110	FIRST FLOOR COLUMBARIUM PLAN
A-111	COLUMBARIUM ROOF PLAN
A-200	MAUSOLEUM ELEVATIONS
A-201	MAUSOLEUM ELEVATIONS
A-210	COLUMBARIUM ELEVATIONS
A-211	COLUMBARIUM ELEVATIONS
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S-001	GENERAL STRUCTURAL NOTES
S-002	WIND PRESSURE DIAGRAMS
S-003	MAUSOLEUM FOUNDATION PLAN
S-004	MAUSOLEUM STRUCTURAL ROOF PLAN
S-005	STRUCTURAL DETAILS
S-006	STRUCTURAL DETAILS
E-001	GENERAL ELECTRICAL NOTES
E-002	MAUSOLEUM ELECTRICAL PLAN
E-003	COLUMBARIUM ELECTRICAL PLAN
P-001	PLUMBING DETAILS

Symbols and Abbreviations

PHONE: 561-262-0387
Jon Olson
NCARB
AR91377

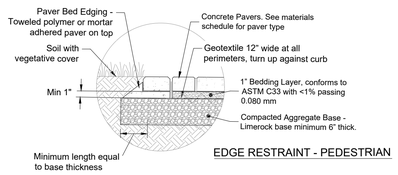
Documentation

Plan For: DELRAY BEACH MAUSOLEUM
Location: 901 SW 10 ST DELRAY BEACH, FL 33446

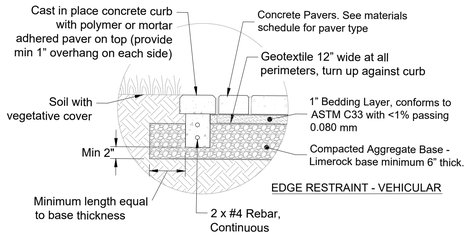
SPALDING + OLSON DESIGN GROUP

G-001

FILE	DATE
XXX	08-20-24
DRWN BY	CHCK BY
EJO	JDO

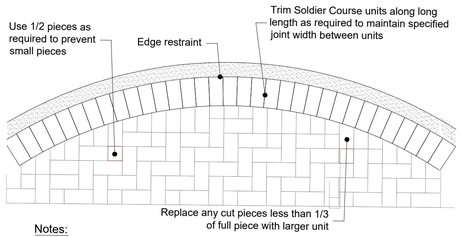


EDGE RESTRAINT - PEDESTRIAN



EDGE RESTRAINT - VEHICULAR

EDGE RESTRAINT - SAND SET ON AGGREGATE BASE



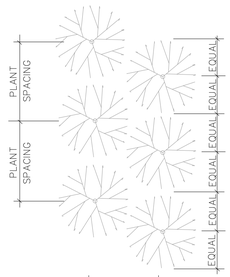
Notes:
1. No cut faces are to be placed directly against an outside curb.
2. Cut pavers shall be no less than 1/3 of a full piece.

BORDER COURSE DETAIL

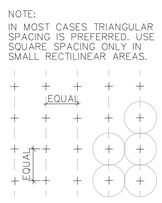
A L-1.1 TERRACE PAVER DETAIL

PLAN NTS

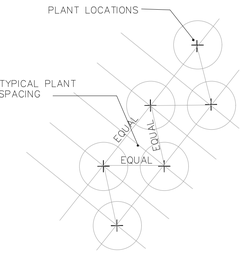
NOTE: PAVER MATERIAL TBD BY OWNER



PLANT SPACING	ROW SPACING
12"	10.4"
18"	15.6"
24"	20.8"
30"	26.0"
36"	31.2"
48"	41.6"
60"	52.0"

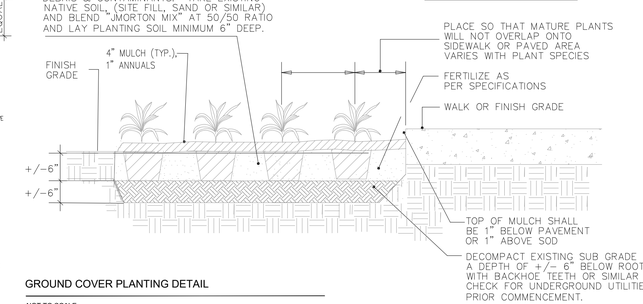


SQUARE SPACING PLAN



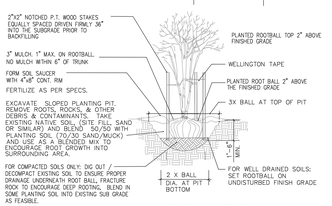
TRIANGULAR SPACING PLAN

EXCAVATE PLANTING BED AS A WHOLE REMOVE ROOTS, ROCKS, & OTHER DEBRIS & CONTAMINANTS. TAKE EXISTING NATIVE SOIL, (SITE FILL, SAND OR SIMILAR) AND BLEND "UMORTON MIX" AT 50/50 RATIO AND LAY PLANTING SOIL MINIMUM 6" DEEP.



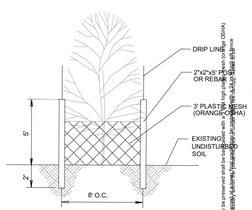
GROUND COVER PLANTING DETAIL

NOT TO SCALE



MULTI-TRUNK TREE STAKING

NOT TO SCALE



Tree Barricade Notes

supported by 5 foot long rebar or 2" x 2" wood stakes or equivalent if approved in conjunction with the Final Site Plan or Final Subdivision Plan.

around the preserve area or Trees with the addition of the 3 foot high plastic mesh, if needed.

preserved can initially be delineated by plastic ribbon affixed to survey stakes (to avoid putting up and taking down fencing) and then protected with either plastic mesh and/or the silt fence.
D. Trees to be relocated can usually be delineated by plastic ribbon affixed to survey stakes unless their relocation is delayed due to root pruning. If root pruning is required, the Trees shall be protected with either plastic mesh and/or silt fence.

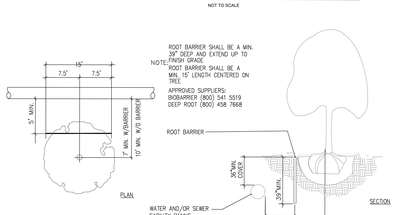
VEGETATION BARRICADE DETAIL

NTS

Notes

1. The final site plan grades have been established to maintain the existing natural grade conditions for the buffer areas.

2. All existing Native Vegetation will be used to meet the perimeter buffer requirements. In the condition where the Native Vegetation does not meet the perimeter buffer requirements, additional code compliant plant material will be installed within the perimeter buffer areas with irrigation as required for a supplemental water source for the proposed plant material.

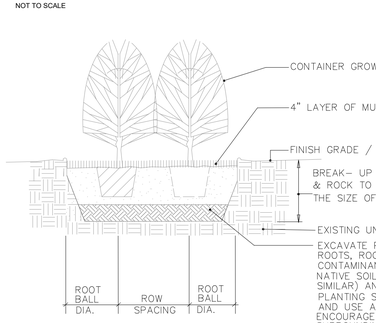


LANDSCAPE AND ROOT BARRIER NOTE:

TREES SHOWN ON THIS PLAN ARE FOR GRAPHIC REPRESENTATION ONLY. TREE SPACING IS BASED ON DESIGN REQUIREMENTS AND THE TREES SHOWN ON THESE PLANS.
ATTEMPT TO ACCOMPLISH THAT SPACING WHILE MAINTAINING THE REQUIRED SETBACKS FROM UTILITIES. TREES MAY BE FIELD ADJUSTED TO AVOID CONFLICTS WITH OVERHEAD AND UNDERGROUND UTILITIES. IN ANY CASE, THE TREES SHALL BE LOCATED IN THE FIELD IN ACCORDANCE WITH THE PLANTING DETAILS SHOWN HEREON.
ADDITIONALLY, TREES ARE TO BE INSTALLED WITH A TEN FOOT (10') SEPARATION FROM ANY WATER OR SEWER MAIN AND/OR SERVICE, HYDRANTS, AND LIFT STATIONS. IF A TEN FOOT (10') SEPARATION CANNOT BE ACHIEVED, THE TREE CAN BE INSTALLED WITH A ROOT BARRIER SYSTEM. REFER TO THE "ROOT BARRIER" DETAIL FOR INSTALLATION.
REQUIREMENTS. HOWEVER, IN NO CASE SHALL A TREE ENCROACH INTO A PROVE WITHOUT PRIOR PROMUD APPROVAL AND ONLY SOD CAN BE INSTALLED WITHIN 7.5' OF A FIRE HYDRANT UNLESS OTHERWISE APPROVED BY THE FIRE MARSHAL AND PROMUD.

ROOT BARRIER DETAIL

NOT TO SCALE



HEDGE & MASS PLANTING DETAIL

NOT TO SCALE

811 KNOW WHAT'S BELOW ALWAYS CALL 811 BEFORE YOU DIG
It's fast. It's free. It's the law.
www.callsunshine.com

LANDSCAPE NOTES

1. THE DEMOLITION OF EXISTING PLANT MATERIAL MUST BE MARKED WITH SPRAY PAINT BY LANDSCAPE ARCHITECT (L.A.)
2. ALL TREES AND PALMS TO BE LAID OUT BY LANDSCAPE CONTRACTOR IN THE FIELD WITH STAKES AND SPRAY PAINT. TO BE REVIEWED AND APPROVED BY (L.A.)
3. PLANT LIST IS FOR INFORMATION ONLY. IF THERE ARE ANY DISCREPANCIES BETWEEN "PLANT QUANTITIES" ON PLAN VERSUS "PLANT LIST", "THE PLANS" WILL TAKE PRIORITY. PLEASE NOTIFY L.A. OF ANY DISCREPANCIES.
4. ONLY UNIT PRICE INSTALLED PLANTING BIDS BASED ON LANDSCAPE ARCHITECT'S PLANTING PLANS AND PLANT LIST WILL BE ACCEPTED. OWNER RETAINS THE RIGHT TO REMOVE PORTIONS OF THE WORK FROM THE CONTRACT AND / OR CREATE SEPARATE CONTRACTS FOR PHASING OF THE PROJECT. LANDSCAPE ARCHITECT RESERVES THE RIGHT TO DENY ANY AND ALL BIDS WHEN SUCH REJECTIONS ARE IN THE BEST INTEREST OF THE OWNER.
5. ALL PLANT MATERIAL MUST BE FLORIDA #1 OR BETTER, UNLESS SPECIFIED AS "CHARACTER" OR WITH WRITTEN APPROVAL FROM L.A.
6. LANDSCAPE CONTRACTOR TO SUBMIT PLANTING PRODUCT AND / OR SAMPLE SUBMITTALS FOR L.A. APPROVAL PRIOR TO PURCHASING. SUBMITTALS TO INCLUDE NURSERY SOURCE & PHOTOGRAPHS WITH MEASURING TAPE AND / OR PERSON STANDING NEXT TO PLANT MATERIAL FOR SCALE REFERENCE.
7. ALL PLANTING BEDS MUST BE FREE OF SURFACE ROCK OVER 1/2" DIAMETER, PRIOR TO MULCHING.
8. PLANTING BEDS SHOULD RECEIVE 6" OF 'H2LAD MIX' PLANTING SOIL MIX. SEE PLANTING SOIL SPECIFICATION.
9. PLANTING SOIL SPECIFICATION: 'H2LAD MIX' (20% FLORIDA PEAT, 20% COMPOST, 20% LAKE WALES SILICA SAND, 20% LOCAL "SCREENING SAND" OR "BEACH SAND" AND 20% CYPRESS SHAVINGS), LANDSCAPE CONTRACTOR TO SUBMIT SAMPLE TO BE APPROVED BY L.A.
10. FERTILIZE ALL PLANTS WITH OSMOCOTE "SIERRA BLEND" 18–7–10: 1/2 HAND FULL FOR 1 – 3 GALLONS, 1 HAND FULL FOR 7–20 GALLON, AND 4 HANDS FULL FOR BALL AND BURLAPPED (B & B) MATERIAL.
11. FERTILIZE ALL B&B MATERIAL WITH 10 "AGRIFORM" TABLETS OR EQUAL.
12. MULCH ALL LANDSCAPE AREAS WITH 2–1/2" – 3" OF EUCALYPTUS OR MELALEUCA MULCH "ECO MULCH". (NO CYPRESS OR RED COLOR MULCH)
13. ALL SOD AREAS LAID WITH BERMUDA TIFWAY 419 OR ALTERNATE ST. AUGUSTINE 'FLORATAM' TO BE HAND RAKED PRIOR TO INSTALLING THE SOD.
14. ALL SOD AREAS TO BE TOP DRESSED WITH 2" OF 80/20 LAKE WALES SILICA SAND/ FLORIDA PEAT MOSS PRIOR TO SODDING.
15. ALL PLANT MATERIAL, EXCLUDING SOD, TO BE WARRANTED AS FOLLOWS: SHRUBS AND GROUND COVERS FOR 90 DAYS, LARGE SHRUBS (OVER 10 GAL.) AND SMALL PALMS FOR 180 DAYS, AND B&B MATERIAL FOR 360 DAYS PROVIDED THAT PLANT MATERIAL IS RECEIVING PROPER MAINTENANCE PRESCRIBED BY LANDSCAPE CONTRACTOR.
    NOTE: HURRICANES AND OTHER CAUSES BEYOND THE CONTROL OF THE LANDSCAPE CONTRACTOR ARE NOT COVERED.
16. ALL WARRANTEES TO RUN CONCURRENTLY, BEGINNING UPON LANDSCAPE ARCHITECT'S FINAL ACCEPTANCE OF THE INSTALLATION, UNLESS OWNER OR GENERAL CONTRACTOR (G.C.) REQUIRES CONSTRUCTION PHASING BEYOND CONTROL OF THE INSTALLER.
17. INSTALLER TO NOTIFY OWNER, G.C. AND / OR L.A. OF ANY PARTIAL COMPLETION DUE TO PHASING.
18. ALL MATERIALS STORED ON SITE ARE THE PROPERTY OF THE INSTALLER UNTIL ACCEPTED BY OWNER. OWNER IS NOT RESPONSIBLE FOR THEFT, UNLESS NOTIFIED IN WRITING PRIOR TO INSTALLATION AND SECURITY ARRANGEMENT AGREED TO.
19. WATERING IS THE RESPONSIBILITY OF THE INSTALLER DURING THE INSTALLATION AND UNTIL FINAL ACCEPTANCE.
20. LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR COORDINATING THEIR WORK WITH IRRIGATION CONTRACTOR.
21. LANDSCAPE CONTRACTOR IS RESPONSIBLE TO ASSURE IRRIGATION INSTALLATION IS PROPERLY PROGRESSING, AND IN THE END ADEQUATE FOR GOOD GROWTH. THE OWNER OR G.C. MUST BE NOTIFIED IN WRITING OF ANY PROBLEMS WITH IRRIGATION PHASING OR PERFORMANCE.
22. ANY EXISTING IRRIGATION TO BE BROUGHT TO A GOOD FUNCTIONING STANDARD TO ENSURE PROPER WATERING OF NEW MATERIAL.
23. ALL LANDSCAPE AREAS MUST BE ON AN AUTOMATIC IRRIGATION SYSTEM FROM TIME OF INSTALLATION, WITH 100% COVERAGE AND 100% OVERLAPS, WITH RAIN SENSORS PEF CITY CODES AND FIS BMP PRACTICES.
24. LANDSCAPE CONTRACTOR TO EXERCISE EXTREME CARE WHEN DIGGING AND PERFORMING OTHER WORK SO NOT TO DAMAGE ANY EXISTING WORK SUCH AS UNDERGROUND AND OVERHEAD UTILITIES, (ELECTRICAL, SEWAGE, IRRIGATION, & PLUMBING) . IN THE EVENT OF PLANTING CONFLICTS THE L.A. OR OWNER'S AUTHORIZED REPRESENTATIVE TO BE NOTIFIED TO PROVIDE ALTERNATE LOCATIONS OF PLANTING OR UTILITY / OBSTRUCTION CONFLICTS.
25. LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR IMMEDIATE REPAIR OF ANY DAMAGE CAUSED BY THEIR INSTALLATION.
    LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR WORKING WITH THE GENERAL CONTRACTOR TO ASSURE THAT ALL CEMENTITIOUS CONTAMINANTS AND OTHER CONSTRUCTION DEBRIS ARE REMOVED FROM ALL SOILS.
26. IN PLANTING BEDS, PARTICULARLY BY BUILDINGS, LANDSCAPE CONTRACTOR TO EXCAVATE EXISTING SOILS TO A MINIMUM DEPTH OF 12" AND BACKFILLED WITH PLANTING SOIL. IN SOD AREAS, LANDSCAPE CONTRACTOR TO DECOMPACT SOIL WITH BACK HOE TEETH TO A DEPTH OF 6" AND ADD 2"MIN. OF TOP SOIL FOR SODDING.
27. ALL CIRCULAR PITS TO BE EXCAVATED WITH SLOPED SIDES FOR ALL PLANTS, EXCEPT FOR HEDGES & PLANTING BEDS. THE DIAMETER OF THESE PITS FOR TREES AND SHRUBS TO BE 1/3 LARGER THAN THE DIAMETER OF THE ROOT BALL.
29. ALL TREE PITS TO HAVE THE SOIL REMOVED IN THE AMOUNT OF 1/3 LARGER THAN THE ROOT BALL OF THE TREE AND REPLACED WITH APPROVED SPECIFIED SOIL.
30. ALL PALM TREE PITS TO HAVE THE SOIL REMOVED IN THE AMOUNT OF 1/3 LARGER THAN THE ROOT BALL OF THE PALM AND REPLACED WITH CLEAN YELLOW SAND.
31. ALL TREE & PALM PITS TO BE EXCAVATED WITH A BACKHOE ONLY. ABSOLUTELY NO USE OF AUGERS.

ALL DRAWINGS, SPECIFICATIONS AND RELATED DOCUMENTS ARE THE COPYRIGHT PROPERTY OF THE LANDSCAPE ARCHITECT AND MUST BE RETURNED UPON REQUEST. REPRODUCTION OF DRAWINGS, SPECIFICATIONS AND RELATED DOCUMENTS IN PART OR IN WHOLE IS FORBIDDEN WITHOUT THE LANDSCAPE ARCHITECT'S WRITTEN PERMISSION.

LANDSCAPE/HARDSCAPE DETAILS

Landscape Details

PHONE: 561-262-0387
Jon Olson
NCARB
AR91377

Documentation

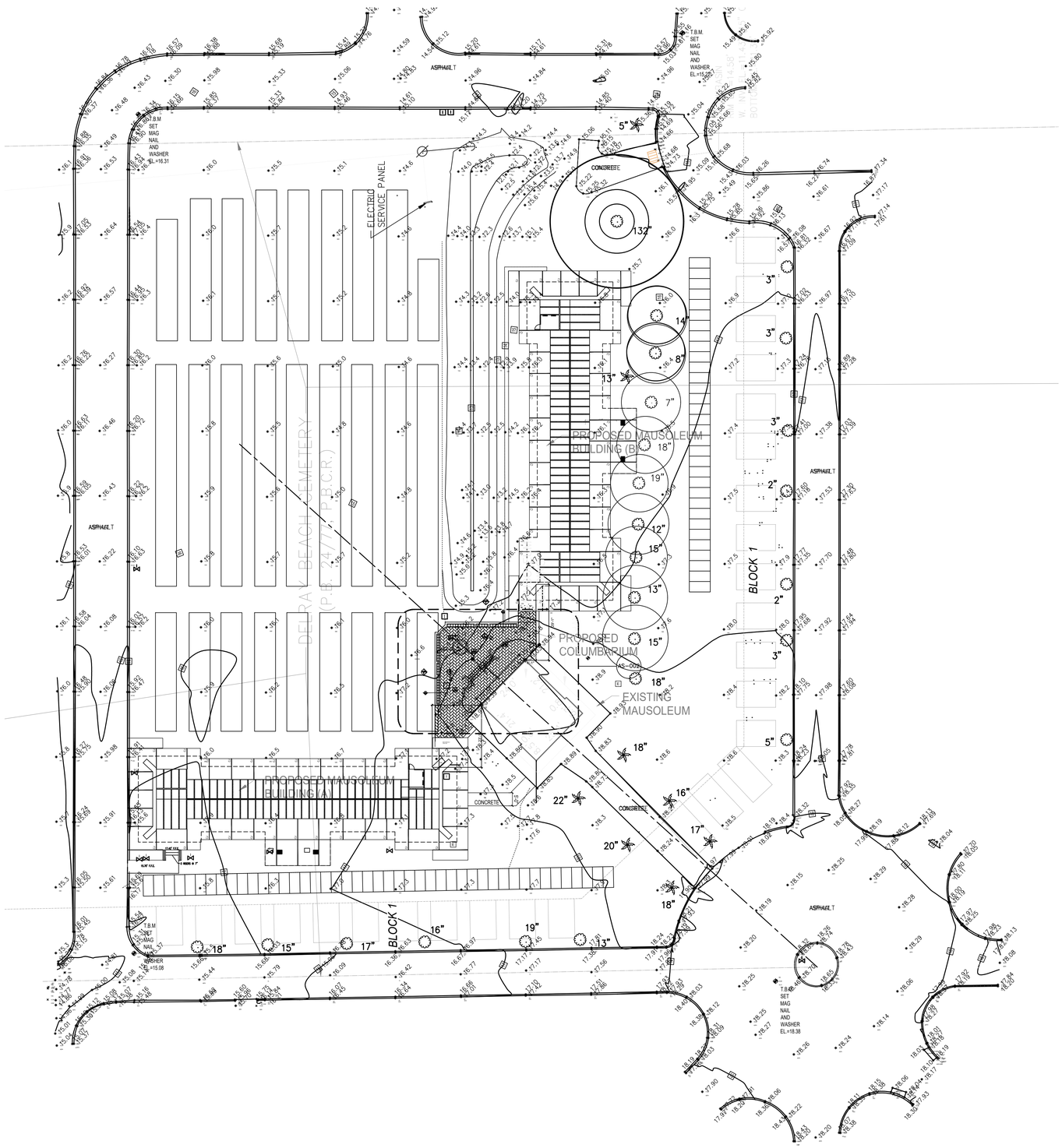
Plan For: DELRAY BEACH COLUMBARIUM

Location: 901 SW 10 ST DELRAY BEACH, FL 33446

SPALDING + OLSON DESIGN GROUP

C-001

FILE	DATE
XXX	05-23-2023
DRWN BY	CHCK BY
EJO	JDO



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ARCHITECTURAL SITE PLAN

SCALE : 3/64" = 1'-0"

GENERAL SITE LEGEND

Property Location: Delray Beach Columbarium

NOTE:
CITY WATER AVAILABLE

Legend

- X — chain link fence
- wood fence
- metal fence
- PP — Pool pump
- AC — Air Conditioner
- Property Line
- Center Line
- N.T.S — Not to Scale
- CR — County Records
- 7.95 — Existing Elevation
- Drainage direction
- P.O.B. — POINT OF BEGINNING
- AREA OF ADDITIONS
- PAVERS
- CONCRETE WALK

MAUSOLEUMS

NEW BUILDING (A)

AREA OF BUILDING	1,913.4 S.F.
NUMBER OF CRYPTS	440 CRYPTS
NUMBER OF NICHES	424 NICHES

NEW BUILDING (B)

AREA OF BUILDING	1,913.4 S.F.
NUMBER OF CRYPTS	440 CRYPTS
NUMBER OF NICHES	424 NICHES

COLUMBARIUM

NEW BUILDING

AREA OF BUILDINGS	162.4 S.F.
NUMBER OF NICHES	424 NICHES

DOCUMENT QUALIFICATIONS

PLEASE NOTE THAT THE INFORMATION DEPICTED HERE HAS BEEN DERIVED FROM THE SURVEY INFORMATION PROVIDED BY THE CLIENT. NO WARRANTY EXPRESSED OR IMPLIED IS INTENDED. PLEASE REVIEW SURVEY.

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AS-001

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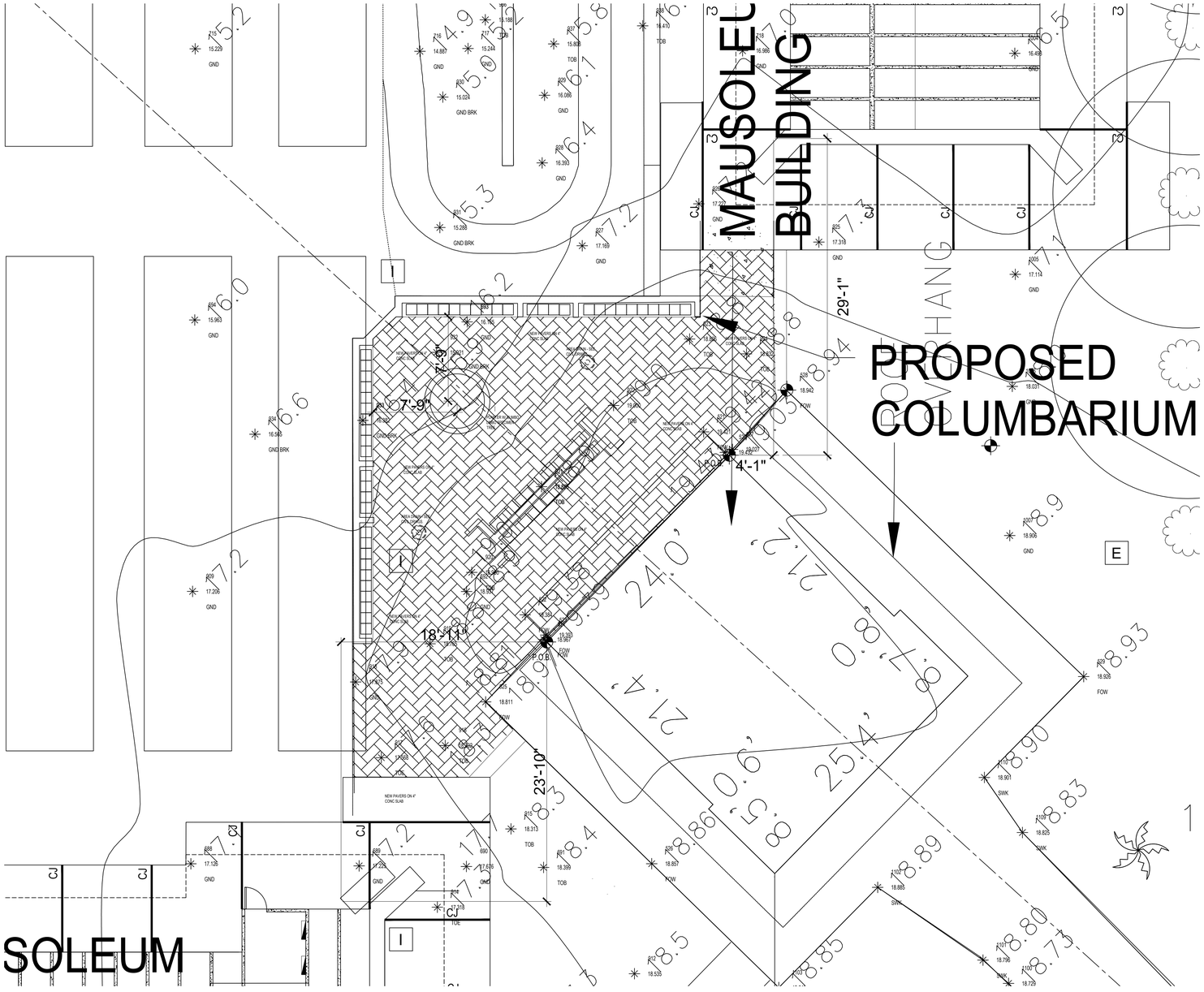

GENERAL SITE LEGEND

Property Location: Delray Beach Columbarium

NOTE:
CITY WATER AVAILABLE

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NUMBER OF CRYPTS	440 CRYPTS
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COLUMBARIUM	
NEW BUILDING	
AREA OF BUILDINGS	162.4 S.F.
NUMBER OF NICHES	424 NICHES

N

COLUMBARIUM ARCHITECTURAL PLAZA PLAN

SCALE : 3/16" = 1'-0"

DOCUMENT QUALIFICATIONS

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Architectural Site Plan

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Jon Olson
NCARB
AR91377

Documentation

Plan For: DELRAY BEACH COLUMBARIUM

Location: 901 SW 10 ST DELRAY BEACH, FL 33446

SPALDING + OLSON DESIGN GROUP

AS-002

FILE	DATE
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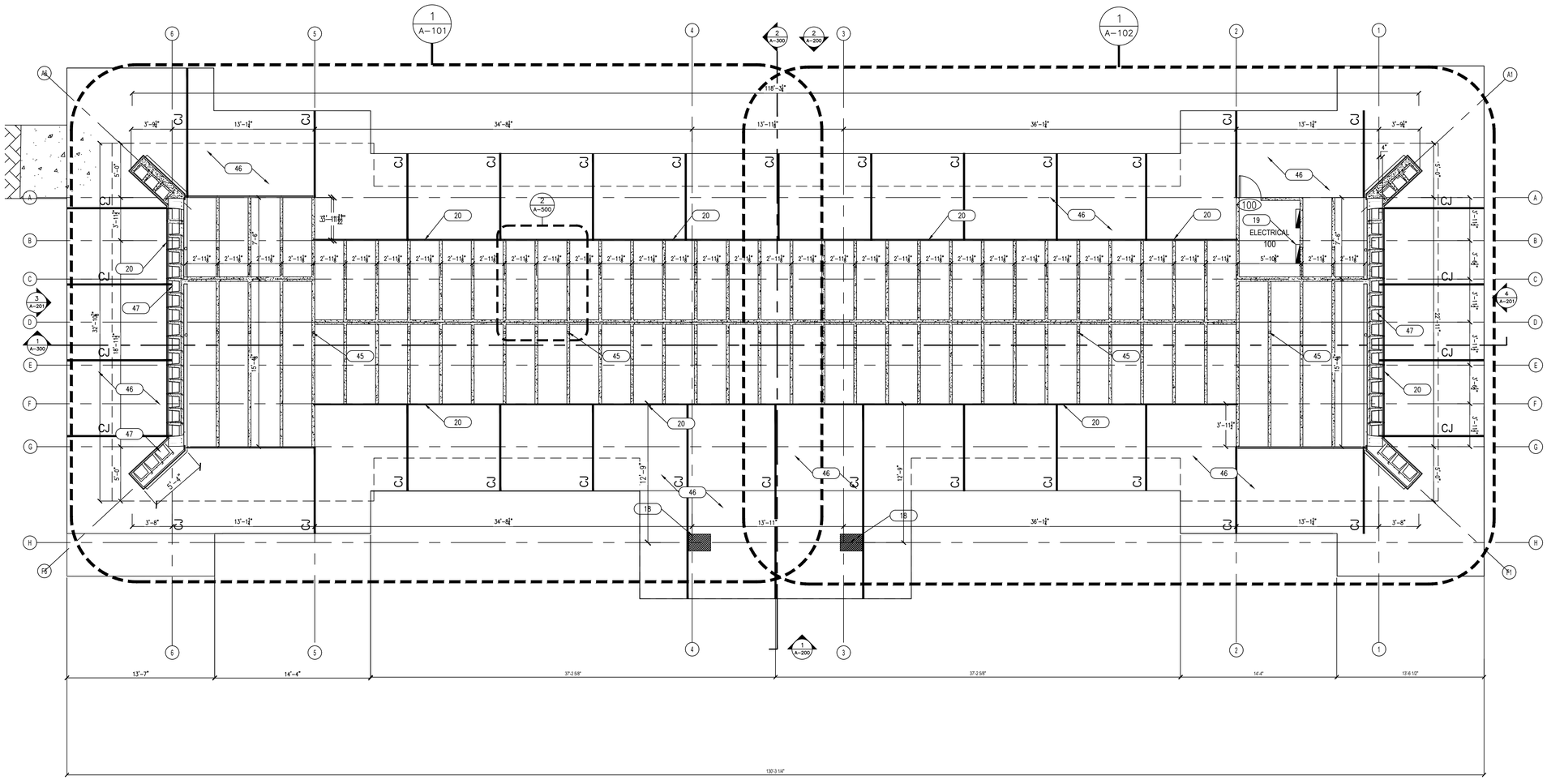

WALL LEGEND

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	6" - 20 GA. MTL. STUDS @ 16" O.C. 5/8" GYP. BD. EA. SIDE. PROVIDE 5/8" DUROCK BOARD AT WET AREAS AND "MOISTURE RESISTANT GREENBOARD AT AREAS SUBJECT TO MOISTURE (BATHROOMS.).
	NEW 8" C.M.U. WALL - SEE STRUCTURAL DWGS. FOR SPECIFICATIONS
	NEW 8" POUR-IN-PLACE CONCRETE WALL - SEE STRUCTURAL DWGS. FOR SPECIFICATIONS
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KEY NOTES - FLOOR PLAN

NOTE: NOT ALL LEGEND ITEMS MAY BE USED FOR THIS PROJECT

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2. PEDESTRIAN WALKWAY (RE: CIVIL DOCS)	
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14. TRASH CAN WASHING AREA	
15. STRUCTURAL COLUMN (RE: STRUCTURAL DOCS)	
16. FRP COLUMN WRAP TO MATCH EXISTING	
17. FIRE SPRINKLER STANDPIPE (RE: SPRINKLER SHOPS)	
18. CONCRETE COLUMN	
19. ELEC. PANEL (RE: ELEC. DOCS)	
20. GRANITE FACE PANELS	
21. A/V CONTROLS (RE: LOW VOLTAGE DOCS-BY OWNER)	
22. FIRE ALARM PANEL (RE: FIRE ALARM	
23. BUILT-IN MILLWORK (FLOOR MOUNTED)(RE: ID DOCS)	
24. BUILT-IN MILLWORK (WALL MOUNTED)(RE: ID DOCS)	
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29. CUSTOM WOOD LOCKER SYSTEM (RE: ID DOCS)	
30. PRE-FABRICATED METAL LOCKER SYSTEM	
31. WIRE UTILITY SHELVING	
32. ARCHITECTURAL GRADE MTL GUARDRAIL	
33. ARCHITECTURAL GRADE MTL HANDRAIL	
34. 3 1/2" CONC. WALL SEE (A) S-510	
35. 6" CONC. WALL SEE (B) S-510	
36. LANDSCAPED AREA (RE: LANDSCAPE DOCS)	
37. HARDSCAPE AREA (RE: LANDSCAPE DOCS)	
38. SITE FURNISHING (RE: LANDSCAPE DOCS)	
39. ALUMINUM GATE	
40. SITE WALL/FENCE (RE: LANDSCAPE & STRUC DOCS)	
41. 6" CONC. FILLED STEEL BOLLARD (RE: CIVIL DOCS)	
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43. EXT. AREA DRAIN (RE: PLUMB & CIVIL DOCS)	
44. RAIN WATER LEADER (RE: PLUMB DOCS)	
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N

FIRST FLOOR MAUSOLEUM PLAN

SCALE : 3/16" = 1'-0"

First Floor Mausoleum Plan

PHONE: 561-262-0387
Jon Olson
NCARB
AR91377

Documentation

Plan For: DELRAY BEACH MAUSOLEUM
Location: 901 SW 10 ST DELRAY BEACH, FL 33446

SPALDING + OLSON DESIGN GROUP

A-100

FILE	DATE
XXX	08-20-24
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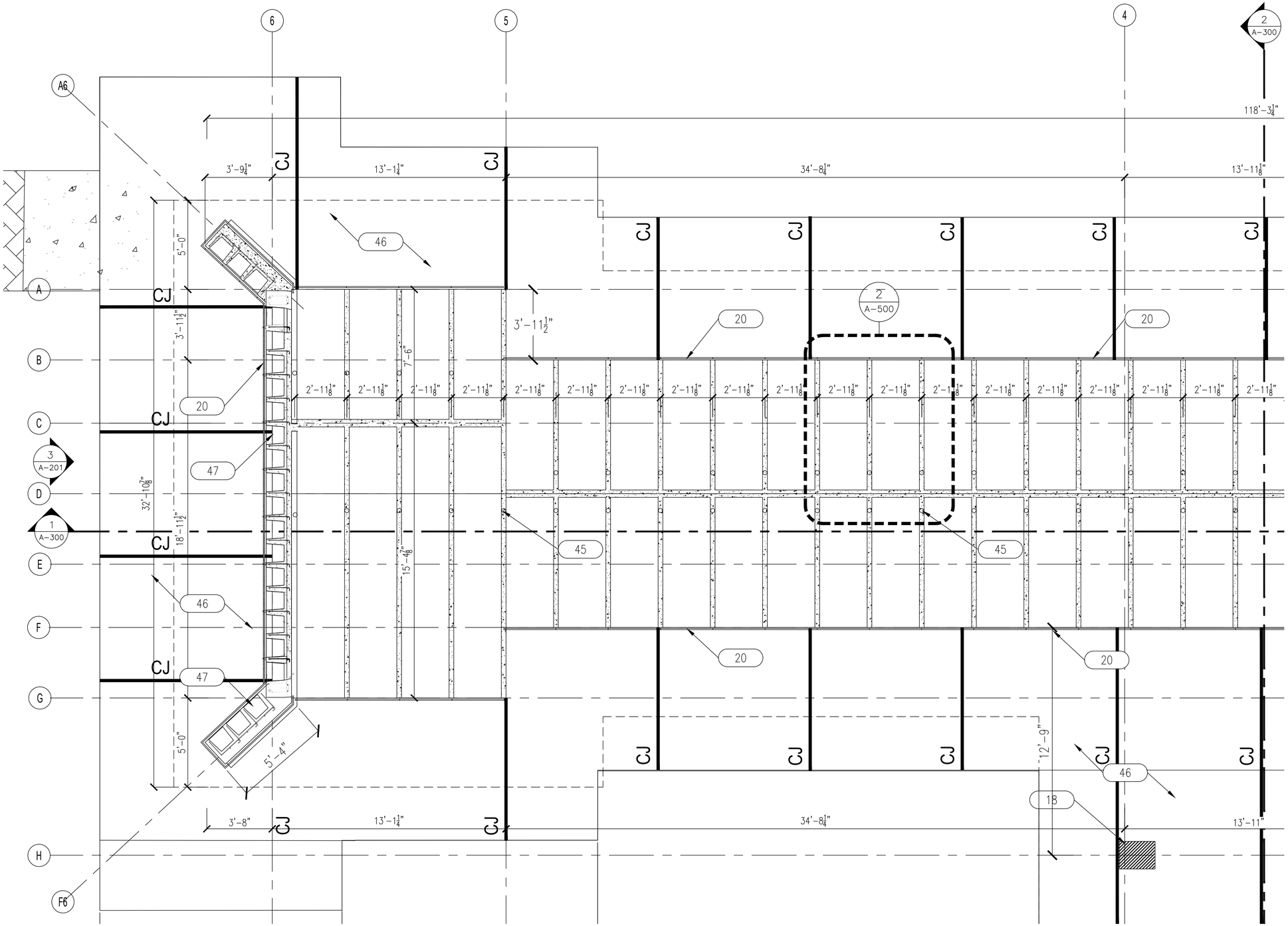
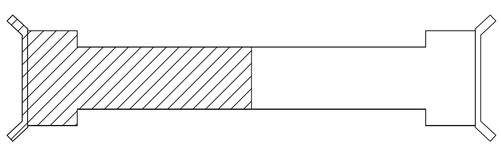
EJO	JDO



ENLARGED FIRST FLOOR MAUSOLEUM PLAN

SCALE : 3/8" = 1'-0"



KEYPLAN

WALL LEGEND

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Enlarged First Floor Mausoleum Plan

PHONE: 561-262-0387
Jon Olson
NCARB
AR91377

Documentation

Plan For: DELRAY BEACH MAUSOLEUM
Location: 901 SW 10 ST DELRAY BEACH, FL 33446

SPALDING + OLSON DESIGN GROUP

A-101

FILE	DATE
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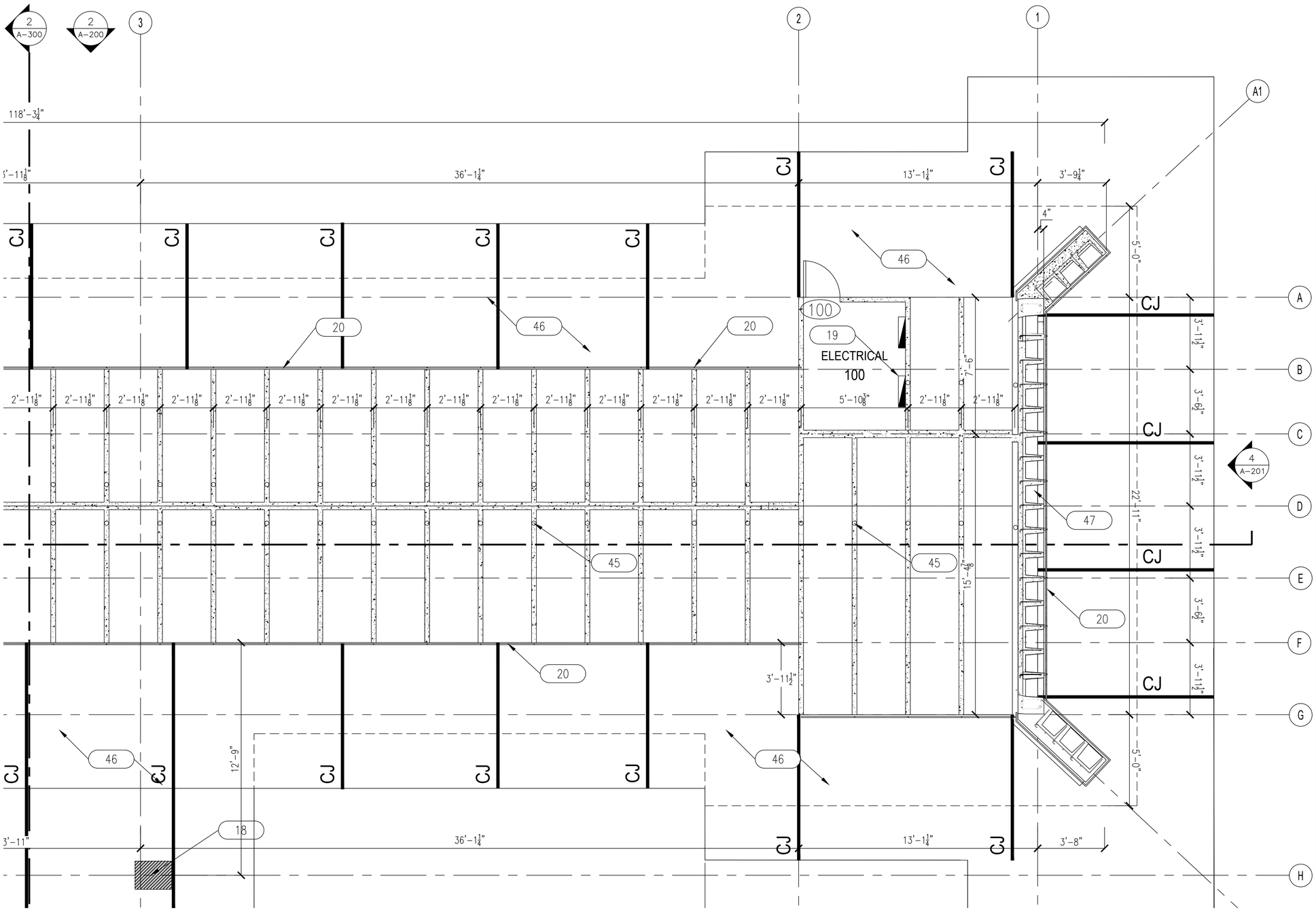

ENLARGED FIRST FLOOR MAUSOLEUM PLAN

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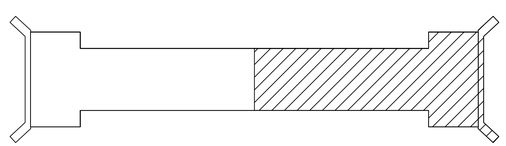

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9. F.O.H. FLOOR DRAIN (RE: PLUMB DOCS)
10. B.O.H. FLOOR DRAIN/TROUGH (G.C. TO PROVIDE BLOCK OUT FOR FLOOR TROUGH. PROVIDE SHOP DRAWINGS)
11. SITE UTILITY (RE: MECH. DOCS)
12. WALL HYDRANT (RE: PLUMB DOCS)
13. COORDINATE W/ KITCHEN EQUIPMENT DRAWINGS FOR ALL UNDERGROUND CONDUITS TYPE, SIZE, LOCATION AND/OR OTHER SPECIAL CONDITIONS.
14. TRASH CAN WASHING AREA
15. STRUCTURAL COLUMN (RE: STRUCTURAL DOCS)
16. FRP COLUMN WRAP TO MATCH EXISTING
17. FIRE SPRINKLER STANDPIPE (RE: SPRINKLER SHOPS)
18. CONCRETE COLUMN
19. ELEC. PANEL (RE: ELEC. DOCS)
20. GRANITE FACE PANELS
21. A/V CONTROLS (RE: LOW VOLTAGE DOCS-BY OWNER)
22. FIRE ALARM PANEL (RE: FIRE ALARM
23. BUILT-IN MILLWORK (FLOOR MOUNTED)(RE: ID DOCS)
24. BUILT-IN MILLWORK (WALL MOUNTED)(RE: ID DOCS)
25. COUNTERTOP (RE: ID DOCS)
26. WALL MOUNTED TOILET ACCESSORY-PROVIDE BLOCKING AS REQ'D. (RE: ID DOCS)
27. BACKLIT MIRROR (RE: ID & ELEC. DOCS)
28. TOILET PARTITION SYSTEM
29. CUSTOM WOOD LOCKER SYSTEM (RE: ID DOCS)
30. PRE-FABRICATED METAL LOCKER SYSTEM
31. WIRE UTILITY SHELVING
32. ARCHITECTURAL GRADE MTL GUARDRAIL
33. ARCHITECTURAL GRADE MTL HANDRAIL
34. 3 ½" CONC. WALL SEE (A) S-510
35. 6" CONC. WALL SEE (B) S-510
36. LANDSCAPED AREA (RE: LANDSCAPE DOCS)
37. HARDSCAPE AREA (RE: LANDSCAPE DOCS)
38. SITE FURNISHING (RE: LANDSCAPE DOCS)
39. ALUMINUM GATE
40. SITE WALL/FENCE (RE: LANDSCAPE & STRUC DOCS)
41. 6" CONC. FILLED STEEL BOLLARD (RE: CIVIL DOCS)
42. 6" CONC. HOUSEKEEPING PAD (RE: STRUC DOCS)
43. EXT. AREA DRAIN (RE: PLUMB & CIVIL DOCS)
44. RAIN WATER LEADER (RE: PLUMB DOCS)
45. CRYPT VENT
46. 6" CONCRETE APRON W/ THICKENED EDGE SLAB
47. COLUMBARIUM NICHES

GENERAL NOTES

A. ALL DIMENSIONS SHOWN ARE TO FACE TO STUDS OR FACE OF CMU/CONCRETE.
B. ALL INTERIOR CONCRETE SLABS ON GRADE SHALL RECEIVE VB-250 VAPOR BARRIER (BARRIER-BAC) OR BETTER.
C. PROVIDE THRU-WALL BASE FLASHING (BLOCKNET BY MORTAR NET) AT ALL EXTERIOR PERIMETER WALLS @ 8" MAX A.F.F OVER SOLID FILL CMU BLOCK BASE
D. ALL NEW SLABS AT FOOD SERVICE/STORAGE AREAS SHALL HAVE URETHANE EPOXY FLOORING. SLABS SHALL PITCH TO DRAIN.
E. ALL LOW VOLTAGE SYSTEMS (WIFI, AUDIO/VISUAL, SECURITY, TELECOM, ACCESS CONTROL, BDA, ETC) SHALL BE PROVIDED BY THE OWNER'S SUBCONTRACTOR. GC TO COORDINATE LOCATIONS AND INFRASTRUCTURE REQUIREMENTS (I.E. LINE VOLTAGE, CONDUIT, ETC)
F. REFER TO I.D. DOCUMENTS FOR ALL TOILET ACCESSORIES
G. ALL EXTERIOR CONCRETE, MASONRY OR FRAMING SHALL RECEIVE AT LEAST 3/4" STUCCO AS PER INDUSTRY RECOMMENDATIONS. PROVIDE WIRE LATH WHEN ADJOINING DIFFERENT SUBSTRATES AND PRECAST JOINTS, SEE ELEVATIONS/SECTIONS FOR TRIM PROFILES.

Enlarged First Floor Mausoleum Plan

PHONE: 561-262-0387
Jon Olson
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AR91377

Documentation

Plan For: DELRAY BEACH MAUSOLEUM
Location: 901 SW 10 ST DELRAY BEACH, FL 33446

SPALDING + OLSON DESIGN GROUP®

A-102

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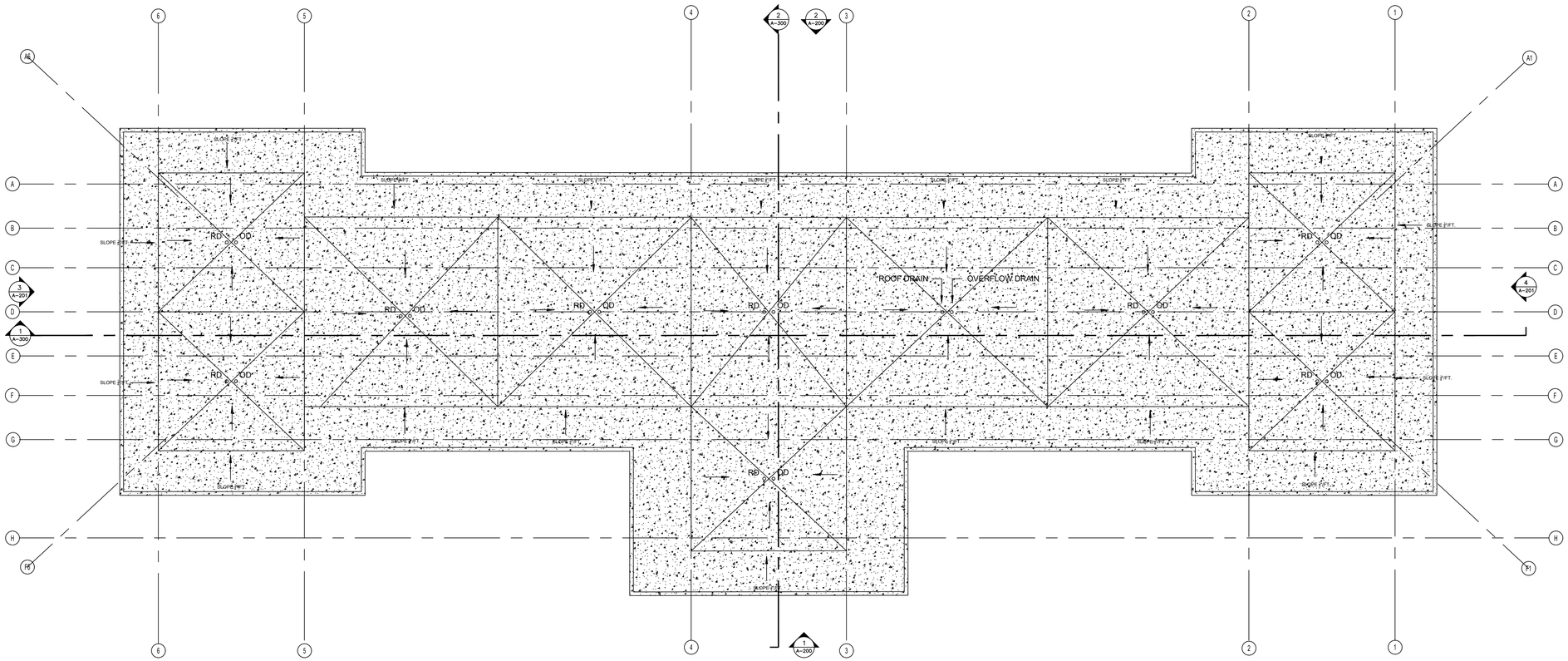

GENERAL NOTES

A. ALL ROOFING AND ACCESSORIES SHALL COMPLY WITH FBC 2023. REFER TO ARCHITECTURAL WALL SECTIONS DETAILS, MISCELLANEOUS DETAILS AND STRUCTURAL DETAILS FOR ALL THE TYPE OF ROOFING SYSTEM, MATERIALS, FASTENINGS REQUIREMENTS, FLASHING REQUIREMENTS AND WIND RESISTANCE RATING THAT ARE REQUIRED TO BE INSTALLED.

B. ALL PRODUCT EVALUATION AND INSTALLATION SHALL INDICATE COMPLIANCE WITH THE WIND CRITERIA REQUIRED FOR THIS PROJECT. REFER TO STRUCTURAL DRAWINGS.

C. ALL FLASHING AND COUNTER FLASHING AT THE JUNCTURE OF THE ROOF VERTICAL SURFACES SHALL BE COMPLY WITH FBC 1507.3.9.

D. ALL GALVANIZED STEEL TO BE ZINC COATED G90, AS PER FBC TABLE 1503.2

E. ALL MECHANICAL EQUIPMENT, APPLIANCES AND SUPPORTS THAT ARE EXPOSED TO WIND SHALL COMPLY WITH FBC (MECH.) 301.13.

F. ALL FLAT ROOF AREAS SHALL HAVE A MIN. ¼":12" PITCH.

G. ALL ABOVE-DECK THERMAL INSULATION FOR THIS PROJECT SHALL COMPLY WITH FM 4450 OR UL 1256 WHEN TESTED AS AN ASSEMBLY AS PER FBC 2020, SECTION 1508.1.

H. PROVIDE ROOFING/ FLASHING SHOP DRAWINGS FOR ARCHITECT OF RECORD TO APPROVE BEFORE PROCEEDING WITH WORK

N

ROOF PLAN

SCALE : 3/16" = 1'-0"

Mausoleum Roof Plan

PHONE: 561-262-0387
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AR91377

Documentation

Plan For: DELRAY BEACH MAUSOLEUM

Location: 901 SW 10 ST DELRAY BEACH, FL 33446

SPALDING + OLSON DESIGN GROUP

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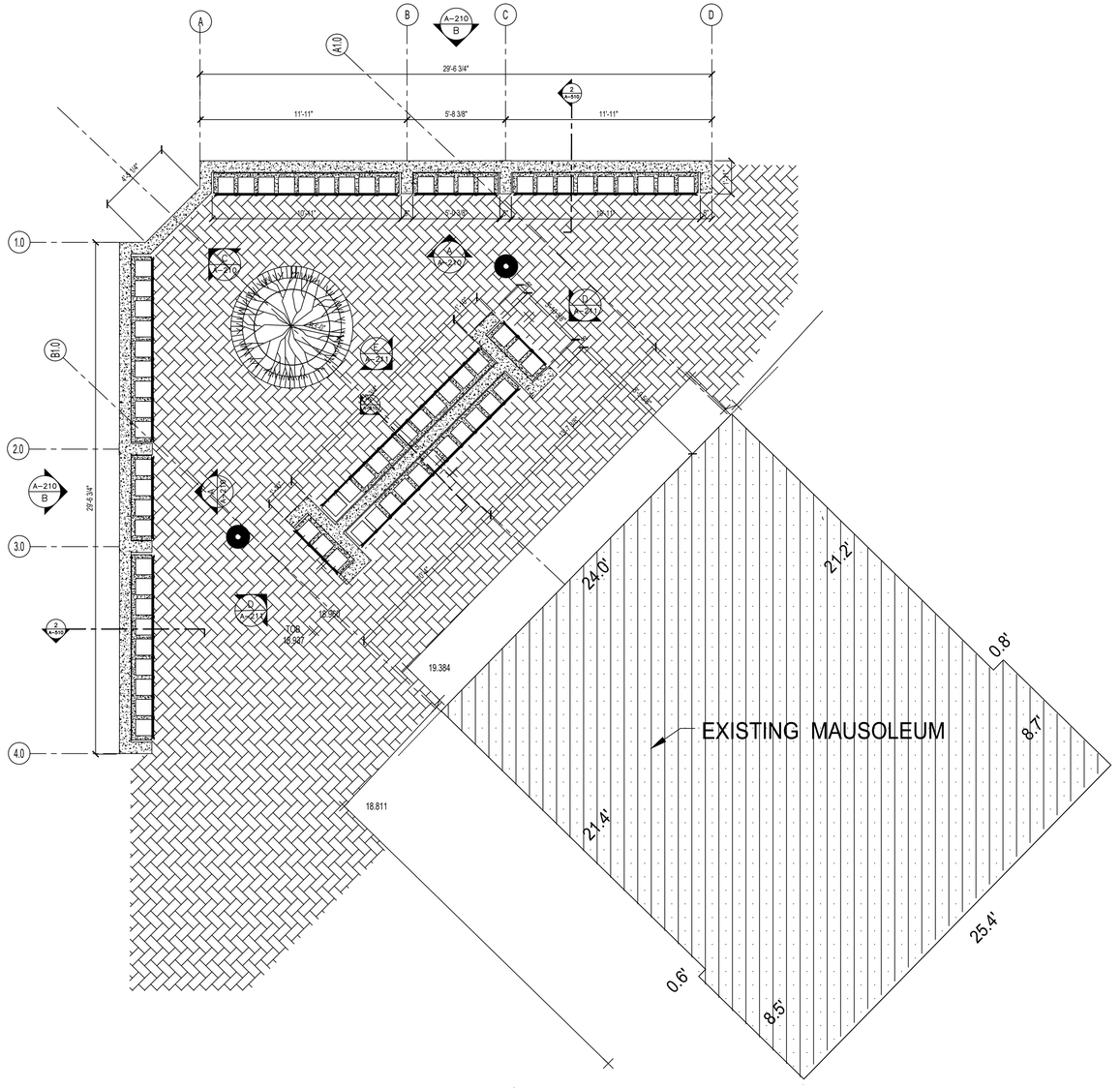

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FIRST FLOOR PLAN

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

WALL LEGEND

	3 5/8" - 20 GA. MTL. STUDS @ 16" O.C. 5/8" GYP. BD. EA. SIDE. PROVIDE 5/8" DUROCK BOARD AT WET AREAS AND "MOISTURE RESISTANT GREENBOARD AT AREAS SUBJECT TO MOISTURE (BATHROOMS.).
	6" - 20 GA. MTL. STUDS @ 16" O.C. 5/8" GYP. BD. EA. SIDE. PROVIDE 5/8" DUROCK BOARD AT WET AREAS AND "MOISTURE RESISTANT GREENBOARD AT AREAS SUBJECT TO MOISTURE (BATHROOMS.).
	NEW 8" C.M.U. WALL - SEE STRUCTURAL DWGS. FOR SPECIFICATIONS
	NEW 8" POUR-IN-PLACE CONCRETE WALL - SEE STRUCTURAL DWGS. FOR SPECIFICATIONS
	NEW 12" C.M.U. WALL - SEE STRUCTURAL DWGS. FOR SPECIFICATIONS
	8" - 25 GA. MTL. STUDS @ 16" O.C. 5/8" GYP. BD. EA. SIDE. PROVIDE 5/8" DUROCK BOARD AT WET AREAS AND "MOISTURE RESISTANT GREENBOARD AT AREAS SUBJECT TO MOISTURE (BATHROOMS.).
1HR RATED WALL	12" - 25 GA. MTL. STUDS @ 16" O.C. 5/8" TYPE 'X" GYP. BD. EA. SIDE. UL RATED FIRE SEALANT AT TOP & BOTTOM TRACKS TO CONCRETE SLAB

KEY NOTES - FLOOR PLAN

NOTE: NOT ALL LEGEND ITEMS MAY BE USED FOR THIS PROJECT

KEYNOTE	KEY NO.
1. VEHICULAR DRIVE (RE: CIVIL DOCS)	
2. PEDESTRIAN WALKWAY (RE: CIVIL DOCS)	
3. ADA ACCESS. ROUTE (1:12 SLOPE)(RE: CIVIL DOCS)	
4. ADA ACCESS. ROUTE (1:20 SLOPE)(RE: CIVIL DOCS)	
5. HATCHED AREA INDICATED SLAB DEPRESSION (2")	
6. HATCHED AREA INDICATED SLAB DEPRESSION (7")	
7. PROVIDE SECONDARY POUR FOR SLOPING TO DRAIN	
8. URETHANE FLOORING (@ FOOD SERVICE AREAS FILL CONTROL JOINTS AS REQ'D BY HEALTH DEPT)	
9. F.O.H. FLOOR DRAIN (RE: PLUMB DOCS)	
10. B.O.H. FLOOR DRAIN/TROUGH (G.C. TO PROVIDE BLOCK OUT FOR FLOOR TROUGH. PROVIDE SHOP DRAWINGS)	
11. SITE UTILITY (RE: MECH. DOCS)	
12. WALL HYDRANT (RE: PLUMB DOCS)	
13. COORDINATE W/ KITCHEN EQUIPMENT DRAWINGS FOR ALL UNDERGROUND CONDUITS TYPE, SIZE, LOCATION AND/OR OTHER SPECIAL CONDITIONS.	
14. TRASH CAN WASHING AREA	
15. STRUCTURAL COLUMN (RE: STRUCTURAL DOCS)	
16. FRP COLUMN WRAP TO MATCH EXISTING	
17. FIRE SPRINKLER STANDPIPE (RE: SPRINKLER SHOPS)	
18. MECHANICAL CHASE	
19. ELEC. PANEL (RE: ELEC. DOCS)	
20. TV (OFCI) PROVIDE BLOCKING AS REQ'D.	
21. A/V CONTROLS (RE: LOW VOLTAGE DOCS-BY OWNER)	
22. FIRE ALARM PANEL (RE: FIRE ALARM	
23. BUILT-IN MILLWORK (FLOOR MOUNTED)(RE: ID DOCS)	
24. BUILT-IN MILLWORK (WALL MOUNTED)(RE: ID DOCS)	
25. COUNTERTOP (RE: ID DOCS)	
26. WALL MOUNTED TOILET ACCESSORY-PROVIDE BLOCKING AS REQ'D. (RE: ID DOCS)	
27. BACKLIT MIRROR (RE: ID & ELEC. DOCS)	
28. TOILET PARTITION SYSTEM	
29. CUSTOM WOOD LOCKER SYSTEM (RE: ID DOCS)	
30. PRE-FABRICATED METAL LOCKER SYSTEM	
31. WIRE UTILITY SHELVING	
32. ARCHITECTURAL GRADE MTL GUARDRAIL	
33. ARCHITECTURAL GRADE MTL HANDRAIL	
34. ADA LIFT	
35. 48" POOL FENCE (RE LANDSCAPE/ HARDSCAPE DOCS)	
36. LANDSCAPED AREA (RE: LANDSCAPE DOCS)	
37. HARDSCAPE AREA (RE: LANDSCAPE DOCS)	
38. SITE FURNISHING (RE: LANDSCAPE DOCS)	
39. ALUMINUM GATE	
40. SITE WALL/FENCE (RE: LANDSCAPE & STRUC DOCS)	
41. 6" CONC. FILLED STEEL BOLLARD (RE: CIVIL DOCS)	
42. 6" CONC. HOUSEKEEPING PAD (RE: STRUC DOCS)	
43. EXT. AREA DRAIN (RE: PLUMB & CIVIL DOCS)	
44. RAIN WATER LEADER (RE: PLUMB DOCS)	
45. DECO DRAIN (RE: CIVIL DOCS)	

GENERAL NOTES

A. ALL DIMENSIONS SHOWN ARE TO FACE TO STUDS OR FACE OF CMU/CONCRETE.
B. ALL INTERIOR CONCRETE SLABS ON GRADE SHALL RECEIVE VB-250 VAPOR BARRIER (BARRIER-BAC) OR BETTER.
C. PROVIDE THRU-WALL BASE FLASHING (BLOCKNET BY MORTAR NET) AT ALL EXTERIOR PERIMETER WALLS @ 8" MAX A.F.F OVER SOLID FILL CMU BLOCK BASE
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F. REFER TO I.D. DOCUMENTS FOR ALL TOILET ACCESSORIES
G. ALL EXTERIOR CONCRETE, MASONRY OR FRAMING SHALL RECEIVE AT LEAST 3/4" STUCCO AS PER INDUSTRY RECOMMENDATIONS. PROVIDE WIRE LATH WHEN ADJOINING DIFFERENT SUBSTRATES AND PRECAST JOINTS, SEE ELEVATIONS/SECTIONS FOR TRIM PROFILES.

First Floor Columbarium Plan

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Jon Olson
NCARB
AR91377

Documentation

Plan For: DELRAY BEACH COLUMBARIUM

Location: 901 SW 10 ST DELRAY BEACH, FL 33446

SPALDING + OLSON DESIGN GROUP

A-110

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XXX	05-23-2023
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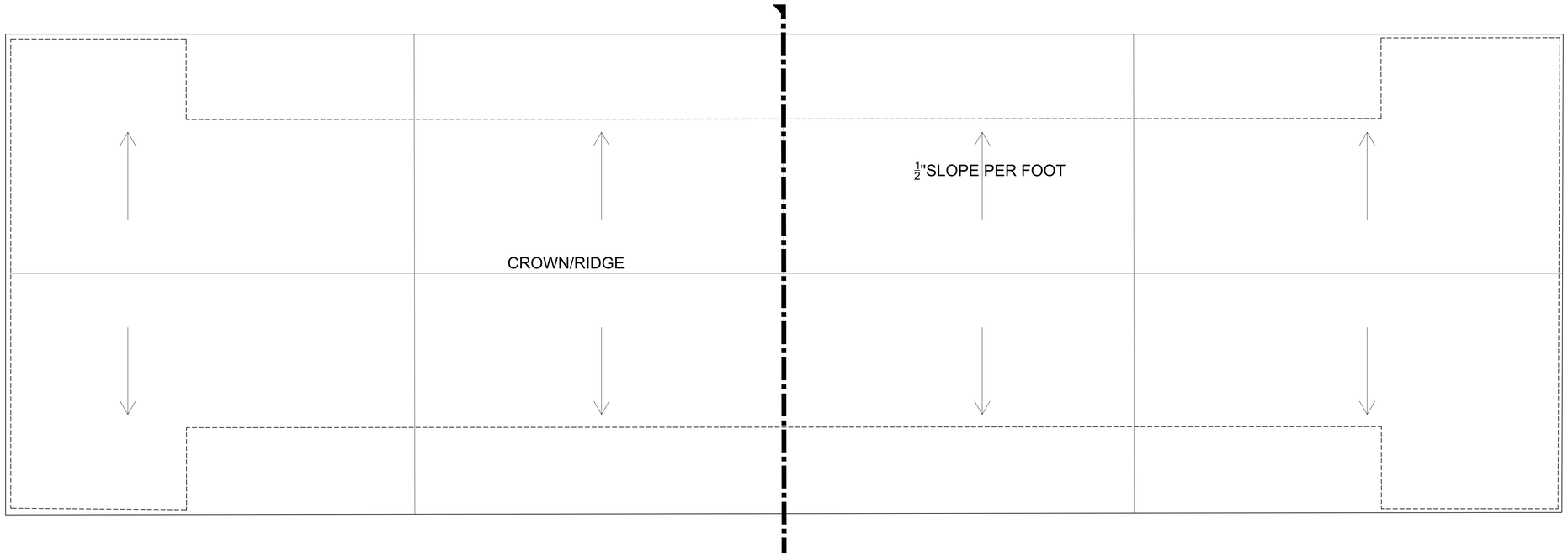
EJO	JDO



GENERAL NOTES

A. ALL ROOFING AND ACCESSORIES SHALL COMPLY WITH FBC 2023. REFER TO ARCHITECTURAL WALL SECTIONS DETAILS, MISCELLANEOUS DETAILS AND STRUCTURAL DETAILS FOR ALL THE TYPE OF ROOFING SYSTEM, MATERIALS, FASTENINGS REQUIREMENTS, FLASHING REQUIREMENTS AND WIND RESISTANCE RATING THAT ARE REQUIRED TO BE INSTALLED.

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E. ALL MECHANICAL EQUIPMENT, APPLIANCES AND SUPPORTS THAT ARE EXPOSED TO WIND SHALL COMPLY WITH FBC (MECH.) 301.13.

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H. PROVIDE ROOFING/ FLASHING SHOP DRAWINGS FOR ARCHITECT OF RECORD TO APPROVE BEFORE PROCEEDING WITH WORK

N

COLUMBARIUM ISLAND ROOF PLAN

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

Columbarium Roof Plan

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Documentation

Plan For: DELRAY BEACH COLUMBARIUM

Location: 901 SW 10 ST DELRAY BEACH, FL 33446

SPALDING + OLSON DESIGN GROUP

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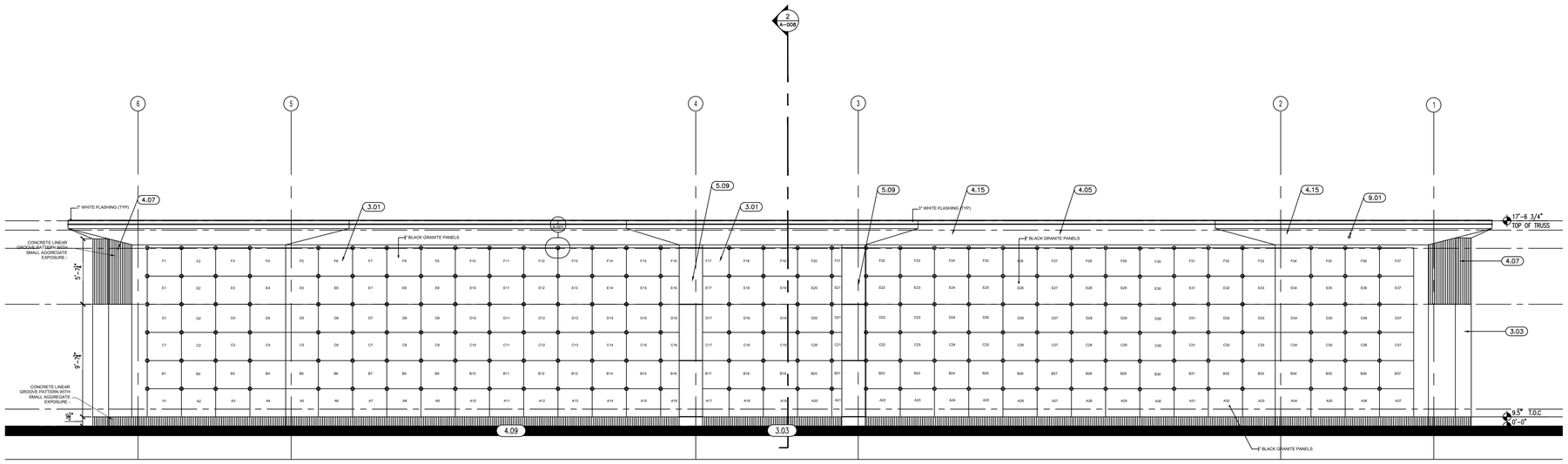
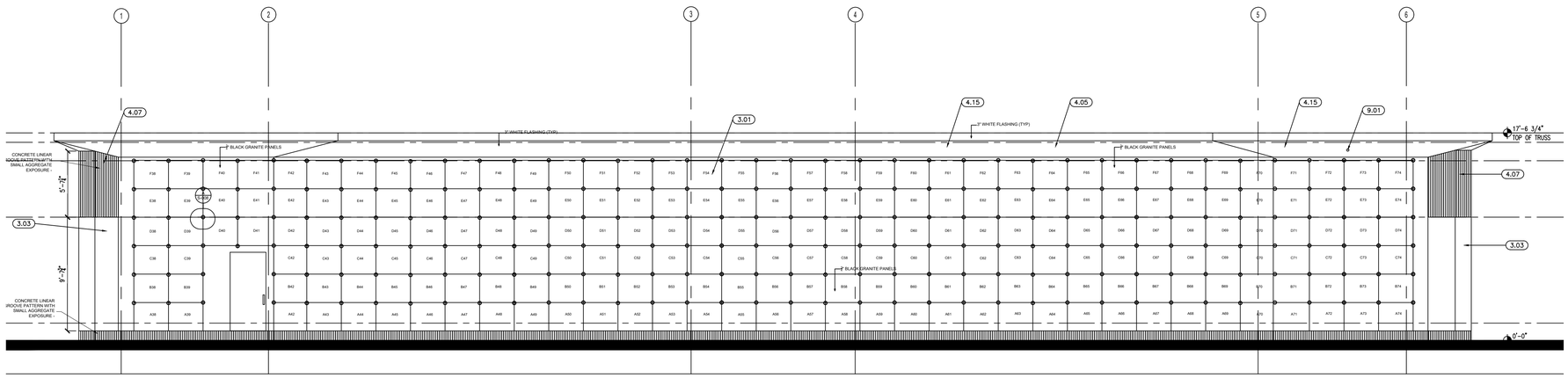


PROPOSED FRONT ELEVATION - BUILDING A & B

SCALE : 3/16" = 1'-0"

1



PROPOSED REAR ELEVATION - BUILDING A & B

SCALE : 3/16" = 1'-0"

2

KEY NOTES - ELEVATIONS

KEY NO.	KEYNOTE
1.01	SPS SINGLE PLY MEMBRANE ROOF (WHITE COLOR)
2.01	PRE-FINISHED ALUMINUM ROOF EDGE COPING
2.03	PRE-FINISHED ALUMINUM GUTTERS AND DOWNSPOUT
2.05	ROOF EDGE BOARD (PRESSURE TREATED WOOD)
3.01	GRANITE PANEL AT CRYPT (TYPICAL) COLOR
3.03	GRANITE PANEL AT NICHES (TYPICAL) COLOR
3.05	
3.07	DECORATIVE MOLDING – STUCCO
5.01	CONCRETE/MASONRY COLUMN (SEE STRUCTURAL DOCS)
5.03	STRUCTURAL COLUMN WITH DECORATIVE SURROUND
5.09	COLUMN SURROUND – 3" GRANITE SLABS WITH ALUMINUM REVEALS
4.01	STUCCO (SMOOTH)
4.03	STUCCO CONTROL JOINT
4.05	STUCCO ROUGH TEXTURE
4.07	PRE-CAST AGGREGATE VENEER CLADDING
4.09	PRE-CAST AGGREGATE BASE MOLDING
4.11	PRE-CAST DECORATIVE TRIM/BANDING
4.13	PRE-CAST DECORATIVE SILL
4.15	PAINT
5.01	CONCRETE/MASONRY COLUMN
5.03	STRUCTURAL COLUMN WITH DECORATIVE SURROUND
5.05	COLUMN CAPITAL
5.07	COLUMN BASE
5.09	COLUMN SURROUND
5.10	CONCRETE SIDEWALK – SEE CIVIL DRAWINGS
6.01	FENCE/GATE (ALUMINUM)
6.03	DECORATIVE GRANITE ANCHOR AND ESCUTCHEON
6.05	ORNAMENTAL RAILING (ALUMINUM)
6.07	GLASS RAILING
7.01	STAIR (CONCRETE)
7.03	RAMP (CONCRETE)
8.01	IMPACT RATED STOREFRONT SYSTEM
8.03	IMPACT RATED DOOR SYSTEM
8.05	IMPACT RATED WINDOW SYSTEM
9.01	DECORATIVE EXTERIOR LIGHTING
9.02	RECESSED SOFFIT LIGHTING
9.03	PATHWAY LIGHTING

GENERAL NOTES - ELEVATIONS

1.
2.
3.

MATERIAL SCHEDULE - ELEVATIONS

CRYPT GRANITE:
- POLISHED + HONED BLACK ABSOLUTE

COLUMBARIUM GRANITE:
- POLISHED + HONED WHITE FOREST

STUCCO PAINT:
- BENJAMIN MOORE OC-152 CLOUD SATIN WHITE

ROOF COPING:
- ALUMINUM WHITE

Proposed Mausoleum Elevations

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Documentation

Plan For: DELRAY BEACH MAUSOLEUM

Location: 901 SW 10 ST DELRAY BEACH, FL 33446

SPALDING + OLSON DESIGN GROUP

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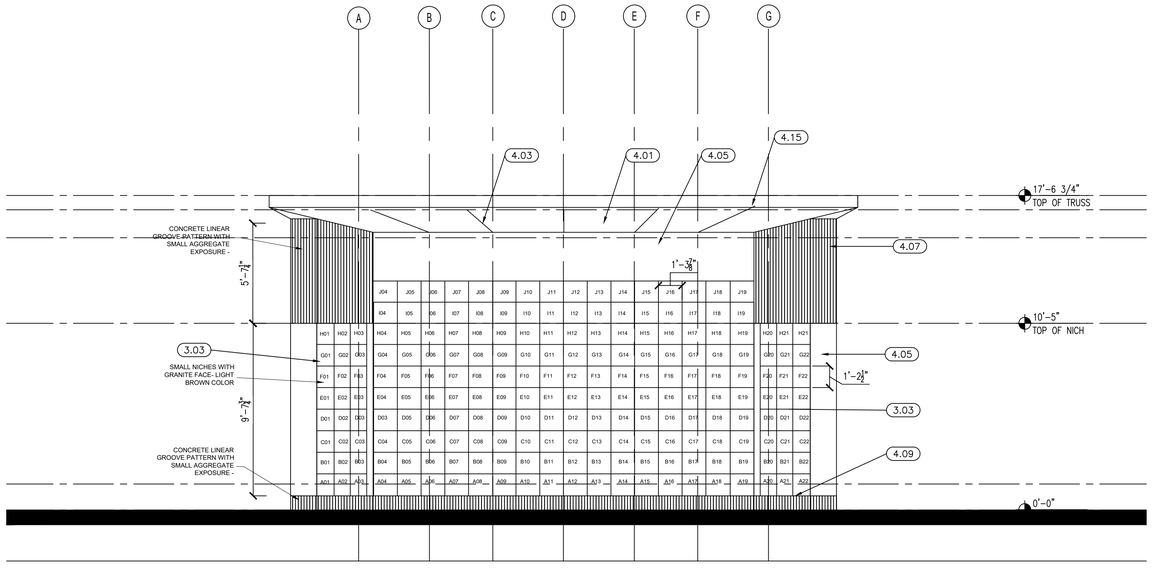
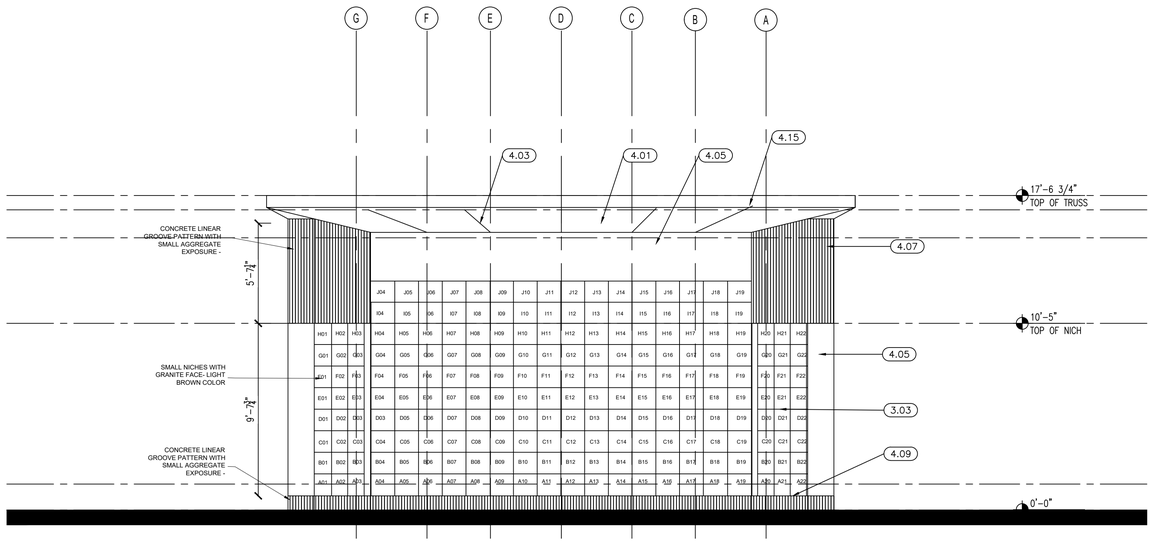


PROPOSED LEFT ELEVATION

SCALE : 3/16" = 1'-0"

3



PROPOSED RIGHT ELEVATION

SCALE : 3/16" = 1'-0"

4

KEY NOTES - ELEVATIONS

KEY NO.	KEYNOTE
1.01	SPS SINGLE PLY MEMBRANE ROOF (WHITE COLOR)
2.01	PRE-FINISHED ALUMINUM ROOF EDGE COPING
2.03	PRE-FINISHED ALUMINUM GUTTERS AND DOWNSPOUT
2.05	ROOF EDGE BOARD (PRESSURE TREATED WOOD)
3.01	GRANITE PANEL AT CRYPT (TYPICAL) COLOR
3.03	GRANITE PANEL AT NICHES (TYPICAL) COLOR
3.05	
3.07	DECORATIVE MOLDING – STUCCO
5.01	CONCRETE/MASONRY COLUMN (SEE STRUCTURAL DOCS)
5.03	STRUCTURAL COLUMN WITH DECORATIVE SURROUND
5.09	COLUMN SURROUND – 3/4" GRANITE SLABS WITH ALUMINUM REVEALS
4.01	STUCCO (SMOOTH)
4.03	STUCCO CONTROL JOINT
4.05	STUCCO ROUGH TEXTURE
4.07	PRE-CAST AGGREGATE VENEER CLADDING
4.09	PRE-CAST AGGREGATE BASE MOLDING
4.11	PRE-CAST DECORATIVE TRIM/BANDING
4.13	PRE-CAST DECORATIVE SILL
4.15	PAINT
5.01	CONCRETE/MASONRY COLUMN
5.03	STRUCTURAL COLUMN WITH DECORATIVE SURROUND
5.05	COLUMN CAPITAL
5.07	COLUMN BASE
5.09	COLUMN SURROUND
5.10	CONCRETE SIDEWALK – SEE CIVIL DRAWINGS
6.01	FENCE/GATE (ALUMINUM)
6.03	DECORATIVE GRANITE ANCHOR AND ESCUTCHEON
6.05	ORNAMENTAL RAILING (ALUMINUM)
6.07	GLASS RAILING
7.01	STAIR (CONCRETE)
7.03	RAMP (CONCRETE)
8.01	IMPACT RATED STOREFRONT SYSTEM
8.03	IMPACT RATED DOOR SYSTEM
8.05	IMPACT RATED WINDOW SYSTEM
9.01	DECORATIVE EXTERIOR LIGHTING
9.02	RECESSED SOFFIT LIGHTING
9.03	PATHWAY LIGHTING

GENERAL NOTES - ELEVATIONS

1.
2.
3.

MATERIAL SCHEDULE - ELEVATIONS

CRYPT GRANITE:
- POLISHED + HONED BLACK ABSOLUTE

COLUMBARIUM GRANITE:
- POLISHED + HONED WHITE FOREST

STUCCO PAINT:
- BENJAMIN MOORE OC-152 CLOUD SATIN WHITE

ROOF COPING:
- ALUMINUM WHITE

Proposed Mausoleum Elevations

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Jon Olson
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Documentation

Plan For: DELRAY BEACH MAUSOLEUM

Location: 901 SW 10 ST DELRAY BEACH, FL 33446

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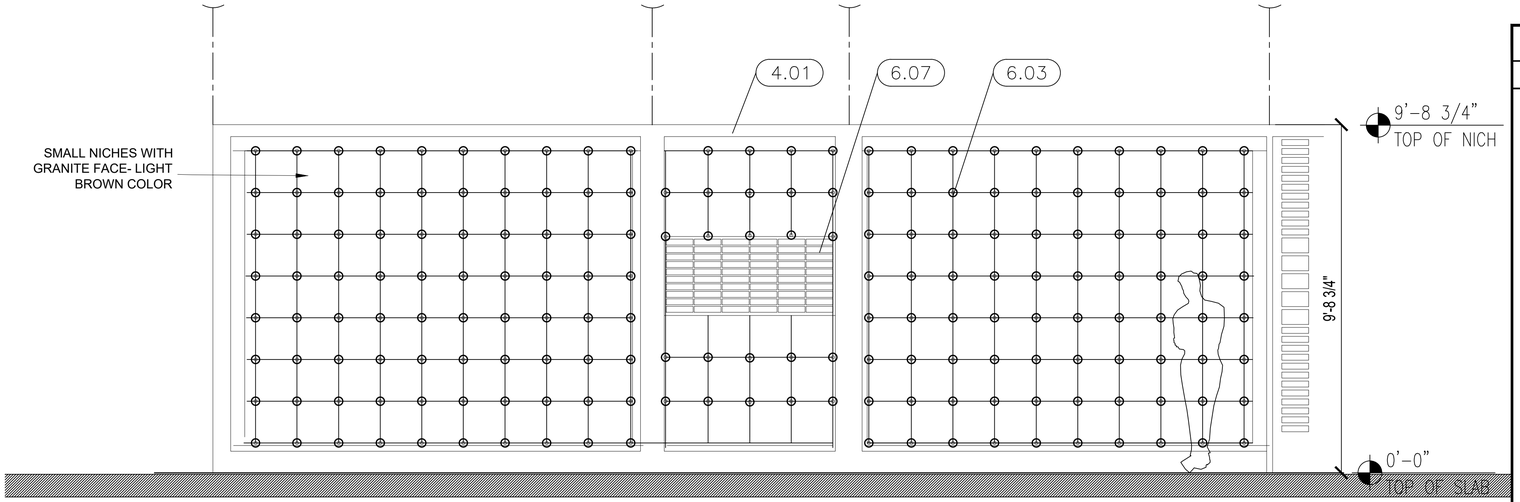
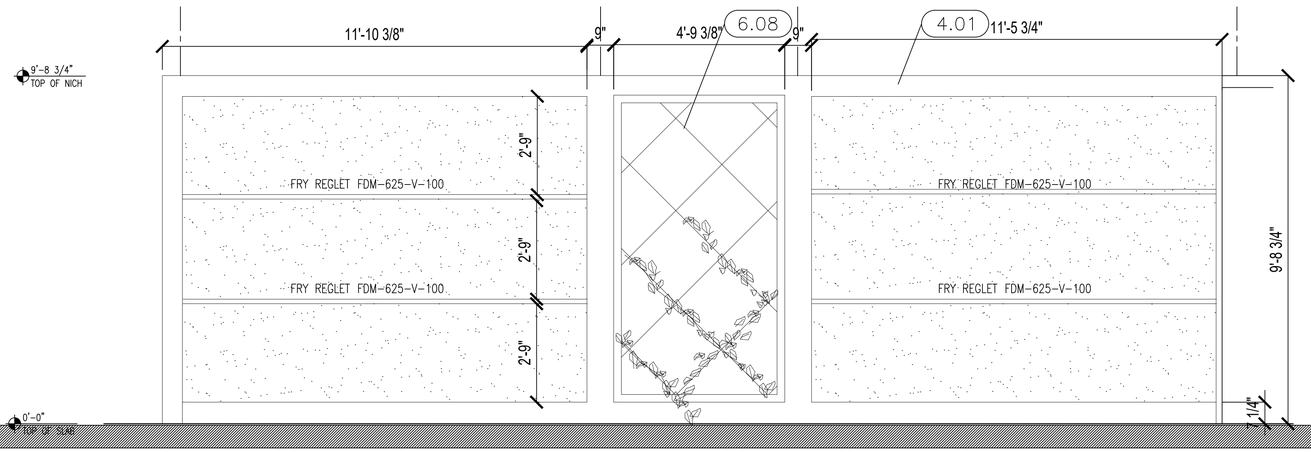


PROPOSED FRONT WALL ELEVATION

A

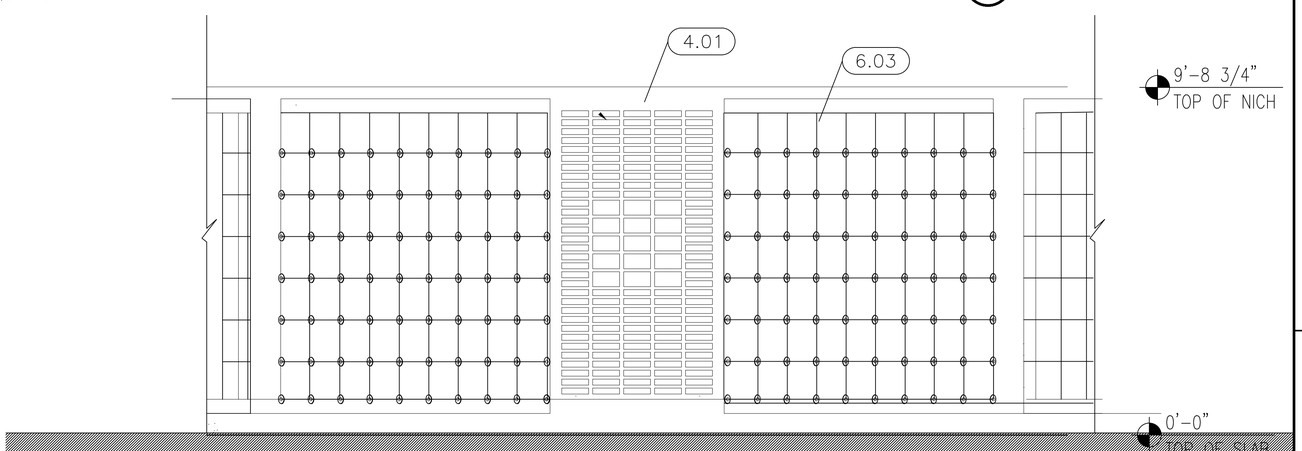
SCALE :1/2" = 1'-0"



PROPOSED REAR ELEVATION

B

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



PROPOSED REAR ELEVATION

C

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

KEY NOTES - ELEVATIONS

KEY NO.	KEYNOTE
1.01	SPS SINGLE PLY MEMBRANE ROOF (WHITE COLOR)
2.01	PRE-FINISHED ALUMINUM ROOF EDGE COPING
2.03	PRE-FINISHED ALUMINUM GUTTERS AND DOWNSPOUT
2.05	ROOF EDGE BOARD (PRESSURE TREATED WOOD)
3.01	GRANITE PANEL AT CRYPT (TYPICAL) COLOR
3.03	GRANITE PANEL AT NICHES (TYPICAL) COLOR
3.05	
3.07	DECORATIVE MOLDING – STUCCO
5.01	CONCRETE/MASONRY COLUMN (SEE STRUCTURAL DOCS)
5.03	STRUCTURAL COLUMN WITH DECORATIVE SURROUND
5.09	COLUMN SURROUND – 3" GRANITE SLABS WITH ALUMINUM REVEALS
4.01	STUCCO (SMOOTH)
4.03	STUCCO CONTROL JOINT
4.05	STUCCO ROUGH TEXTURE
4.07	PRE-CAST AGGREGATE VENEER CLADDING
4.09	PRE-CAST AGGREGATE BASE MOLDING
4.11	PRE-CAST DECORATIVE TRIM/BANDING
4.13	PRE-CAST DECORATIVE SILL
4.15	PAINT
5.01	CONCRETE/MASONRY COLUMN
5.03	STRUCTURAL COLUMN WITH DECORATIVE SURROUND
5.05	COLUMN CAPITAL
5.07	COLUMN BASE
5.09	COLUMN SURROUND
5.10	CONCRETE SIDEWALK – SEE CIVIL DRAWINGS
6.01	FENCE/GATE (ALUMINUM)
6.03	DECORATIVE GRANITE ANCHOR AND ESCUTCHEON
6.05	ORNAMENTAL RAILING (ALUMINUM)
6.07	DECORATIVE NAME PLATES
6.08	DECORATIVE LATTICE
7.01	STAIR (CONCRETE)
7.03	RAMP (CONCRETE)
8.01	IMPACT RATED STOREFRONT SYSTEM
8.03	IMPACT RATED DOOR SYSTEM
8.05	IMPACT RATED WINDOW SYSTEM
9.01	DECORATIVE EXTERIOR LIGHTING
9.02	RECESSED SOFFIT LIGHTING
9.03	PATHWAY LIGHTING

GENERAL NOTES - ELEVATIONS

1.
2.
3.

MATERIAL SCHEDULE - ELEVATIONS

CRYPT GRANITE:
- POLISHED + HONED BLACK ABSOLUTE

COLUMBARIUM GRANITE:
- POLISHED + HONED WHITE FOREST

STUCCO PAINT:
- BENJAMIN MOORE OC-152 CLOUD SATIN WHITE

ROOF COPING:
- ALUMINUM WHITE

Proposed Columbarium Elevations

PHONE: 561-262-0387
Jon Olson
NCARB
AR91377

Documentation

Plan For: DELRAY BEACH COLUMBARIUM

Location: 901 SW 10 ST DELRAY BEACH, FL 33446

SPALDING + OLSON DESIGN GROUP

A-210

FILE	DATE
XXX	05-23-2023
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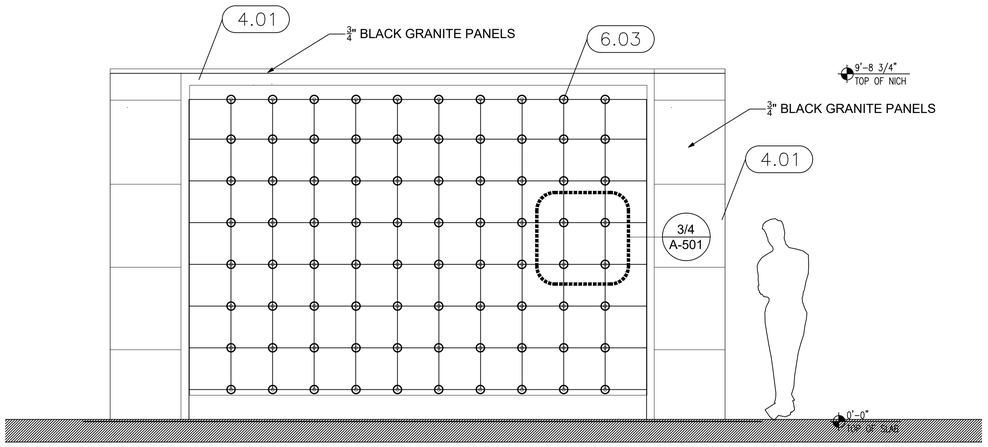
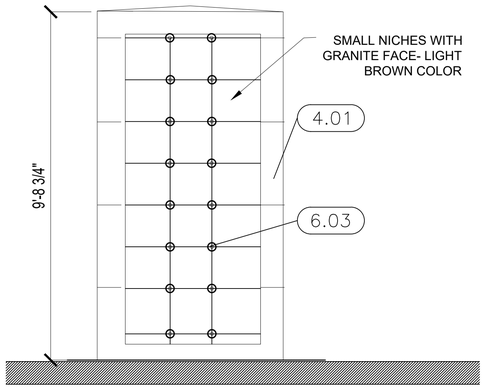
EJO	JDO



PROPOSED FRONT ELEVATION

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

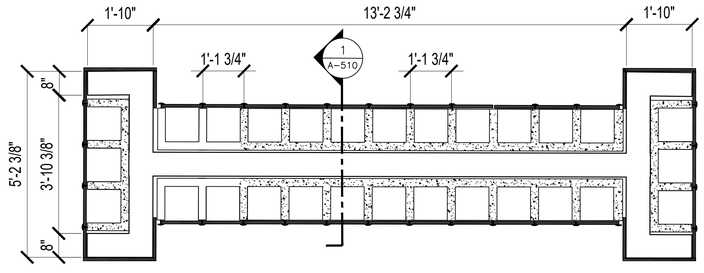
B



PROPOSED SIDE ELEVATION

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

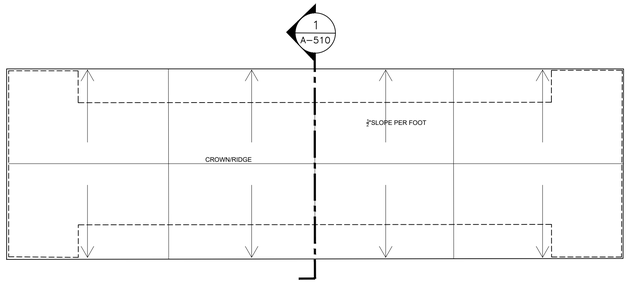
A



ISLAND COLUMBARIUM PLAN

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

2



ISLAND ROOF PLAN

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

1

KEY NOTES - ELEVATIONS

KEY NO.	KEYNOTE
1.01	SPS SINGLE PLY MEMBRANE ROOF (WHITE COLOR)
2.01	PRE-FINISHED ALUMINUM ROOF EDGE COPING
2.03	PRE-FINISHED ALUMINUM GUTTERS AND DOWNSPOUT
2.05	ROOF EDGE BOARD (PRESSURE TREATED WOOD)
3.01	GRANITE PANEL AT CRYPT (TYPICAL) COLOR
3.03	GRANITE PANEL AT NICHES (TYPICAL) COLOR
3.05	
3.07	DECORATIVE MOLDING – STUCCO
5.01	CONCRETE/MASONRY COLUMN (SEE STRUCTURAL DOCS)
5.03	STRUCTURAL COLUMN WITH DECORATIVE SURROUND
5.09	COLUMN SURROUND – 3/4" GRANITE SLABS WITH ALUMINUM REVEALS
4.01	STUCCO (SMOOTH)
4.03	STUCCO CONTROL JOINT
4.05	STUCCO ROUGH TEXTURE
4.07	PRE-CAST AGGREGATE VENEER CLADDING
4.09	PRE-CAST AGGREGATE BASE MOLDING
4.11	PRE-CAST DECORATIVE TRIM/BANDING
4.13	PRE-CAST DECORATIVE SILL
4.15	PAINT
5.01	CONCRETE/MASONRY COLUMN
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7.03	RAMP (CONCRETE)
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8.03	IMPACT RATED DOOR SYSTEM
8.05	IMPACT RATED WINDOW SYSTEM
9.01	DECORATIVE EXTERIOR LIGHTING
9.02	RECESSED SOFFIT LIGHTING
9.03	PATHWAY LIGHTING

GENERAL NOTES - ELEVATIONS

1.
2.
3.

MATERIAL SCHEDULE - ELEVATIONS

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- BENJAMIN MOORE OC-152 CLOUD SATIN WHITE

ROOF COPING:
- ALUMINUM WHITE

Proposed Columbarium Elevations

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Documentation

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SPALDING + OLSON DESIGN GROUP

A-211

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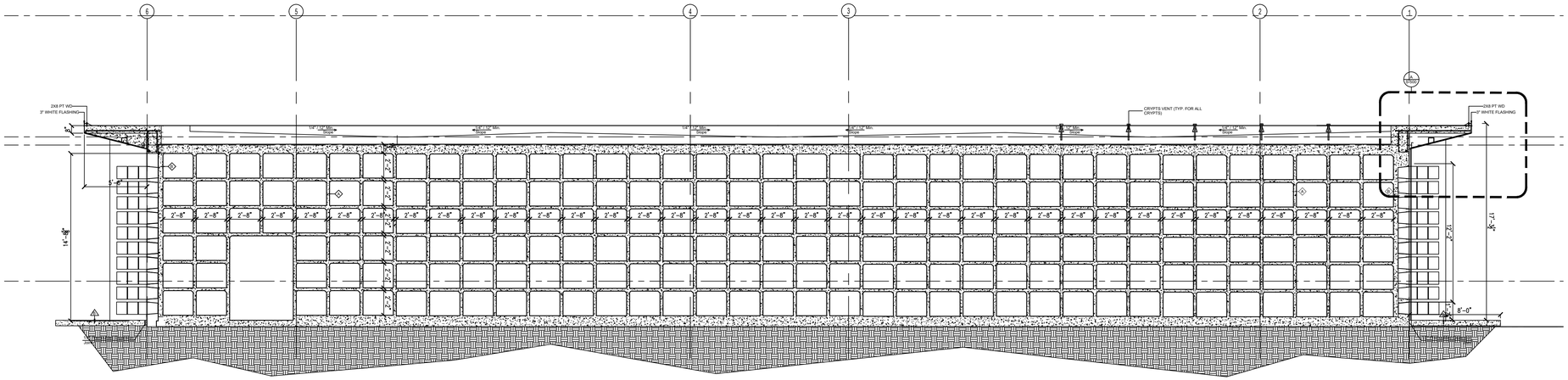
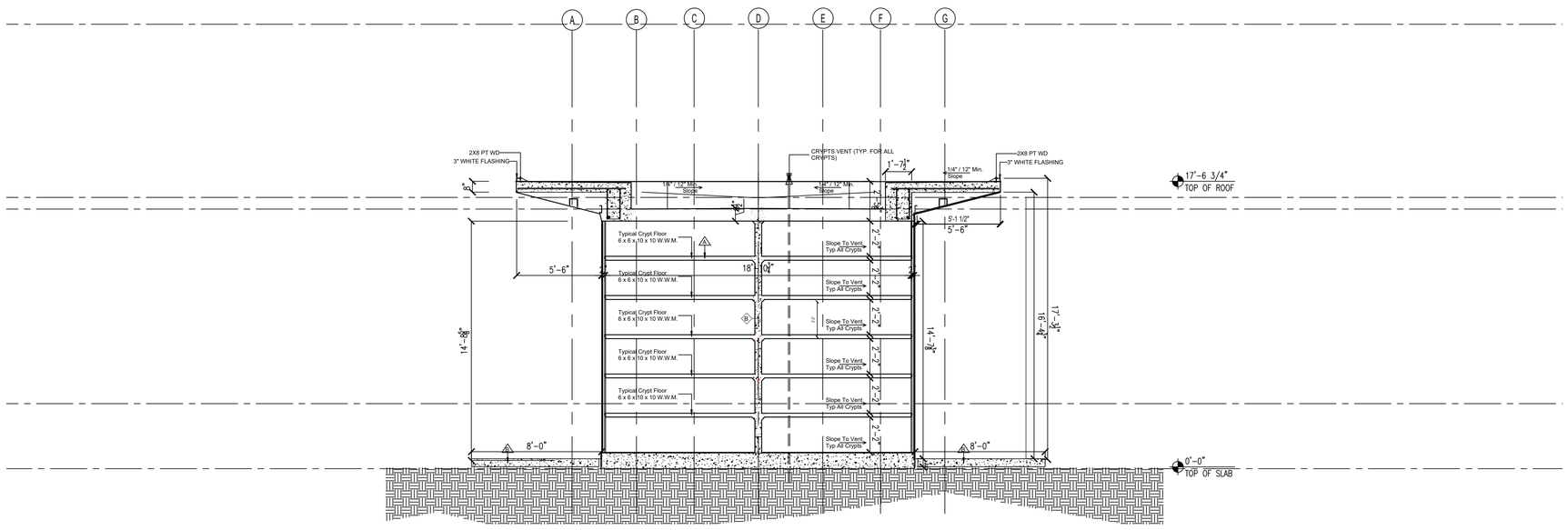
EJO	JDO



LONGITUDINAL SECTION

SCALE : 3/16" = 1'-0"

1



CROSSSECTION

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

2

KEY NOTES - SECTIONS

KEY NO.	KEYNOTE
1.01	SPS SINGLE PLY MEMBRANE ROOF (WHITE COLOR)
2.01	PRE-FINISHED ALUMINUM ROOF EDGE COPING
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GENERAL NOTES - ELEVATIONS

1.
2.
3.

MATERIAL SCHEDULE - ELEVATIONS

Proposed Mausoleum Sections

PHONE: 561-262-0387
Jon Olson
NCARB
AR91377

Documentation

Plan For: DELRAY BEACH MAUSOLEUM

Location: 901 SW 10 ST DELRAY BEACH, FL 33446

SPALDING + OLSON DESIGN GROUP

A-300

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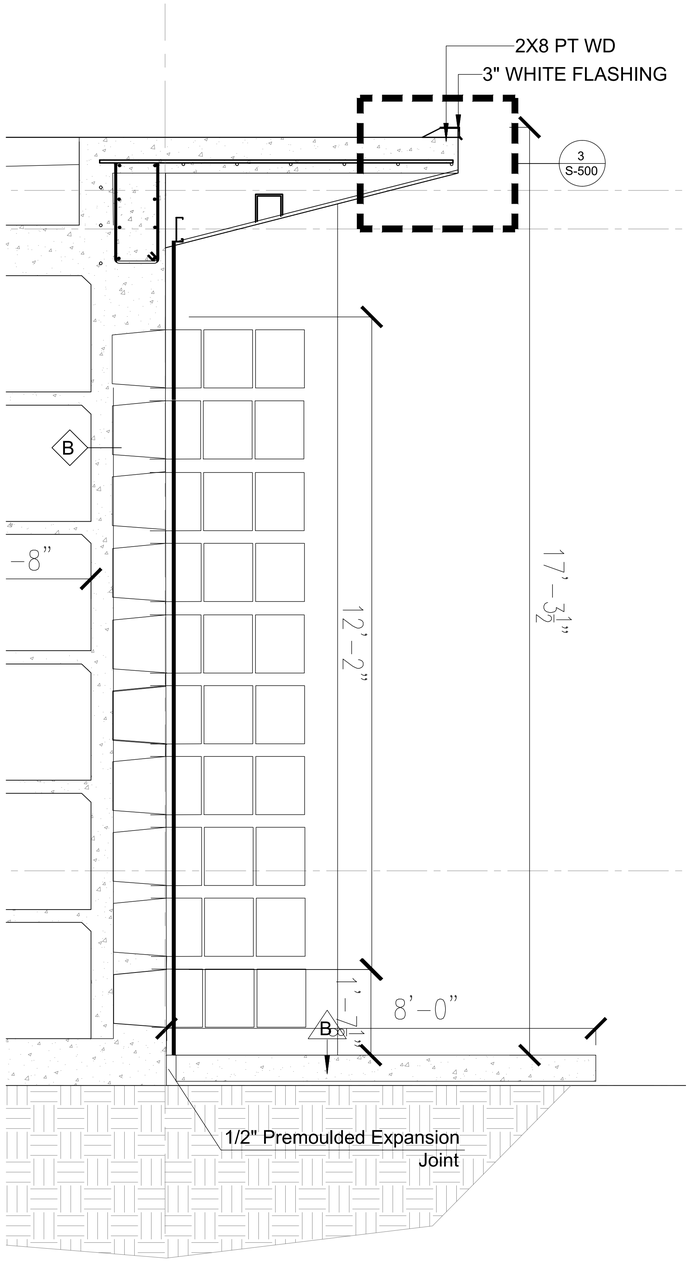
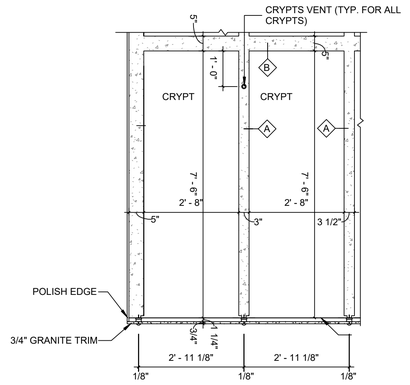
EJO	JDO



END WALL SECTION

SCALE : 3/4" = 1'-0"

1



WALL DETAIL FINISH

2

KEY NOTES - SECTIONS

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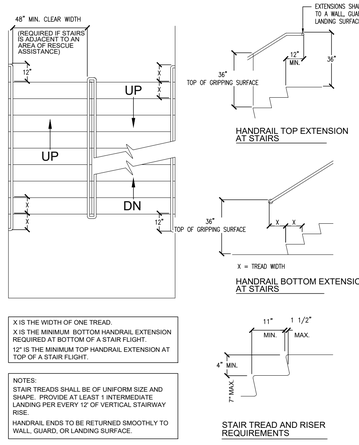
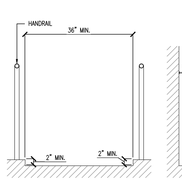


STAIR TREAD AND RISER REQUIREMENTS

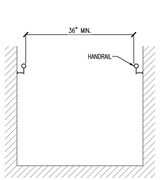
HANDRAIL TOP EXTENSION AT STAIRS

HANDRAIL BOTTOM EXTENSION AT STAIRS

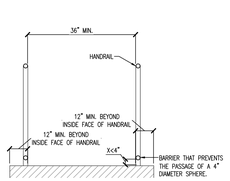
STAIR TREAD AND RISER REQUIREMENTS



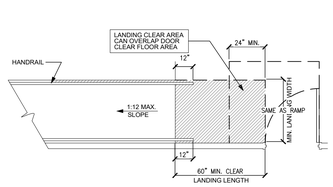
CURBS ON EACH SIDE



WALLS ON EACH SIDE



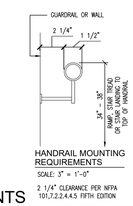
PROJECTING SURFACE ON EACH SIDE



LANDING @ DOORWAY

RAMP EDGE PROTECTION

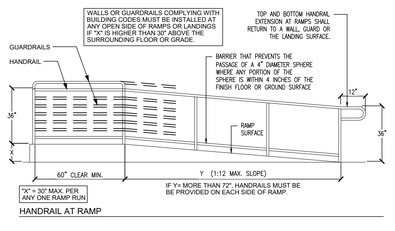
SCALE: 3/4" = 1'-0"



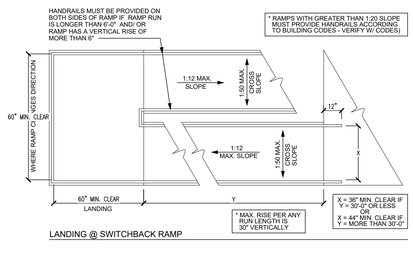
HANDRAIL MOUNTING REQUIREMENTS

SCALE: 3" = 1'-0"

2 1/4" CLEARANCE PER NFPA 101,7.2.2.4.4.5 FIFTH EDITION



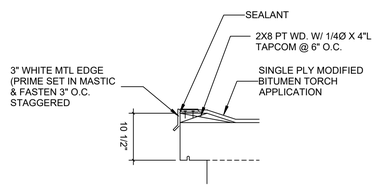
HANDRAIL AT RAMP



LANDING @ SWITCHBACK RAMP

STAIR AND RAMP ACCESSIBILITY REQUIREMENTS

THIS DRAWING IS DIAGRAMMATIC AND SHOWS MINIMUM CLEARANCE ONLY. REFER TO ARCHITECT DETAILS FOR SPECIFIC DIMENSIONAL CONTROL. NOTIFY ARCHITECT OF ANY CONFLICTS IN A TIMELY MANNER.



ROOF NOTE:
DIFFERENCE IN LEVEL BETWEEN ROOF DRAIN & EDGE OF ROOF FOR FREE EVACUATION OF WATER IS 6" MAX. EXCESS OF WATER OVER PERMITTED 5" HAS BEEN CONSIDERED IN THE DESIGN OF THE ROOF STRUCTURE

METAL EDGE FLASHING

3

General Mausoleum Details

PHONE: 561-262-0387
Jon Olson
NCARB
AR91377

Documentation

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A-500

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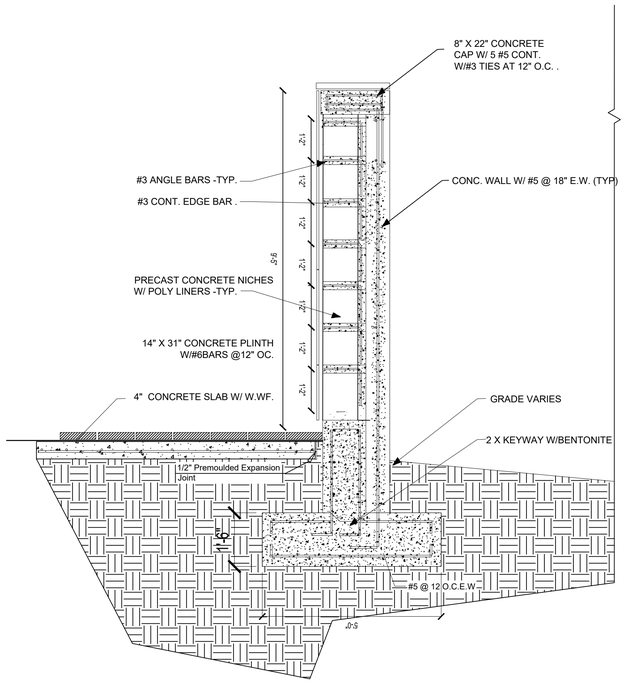
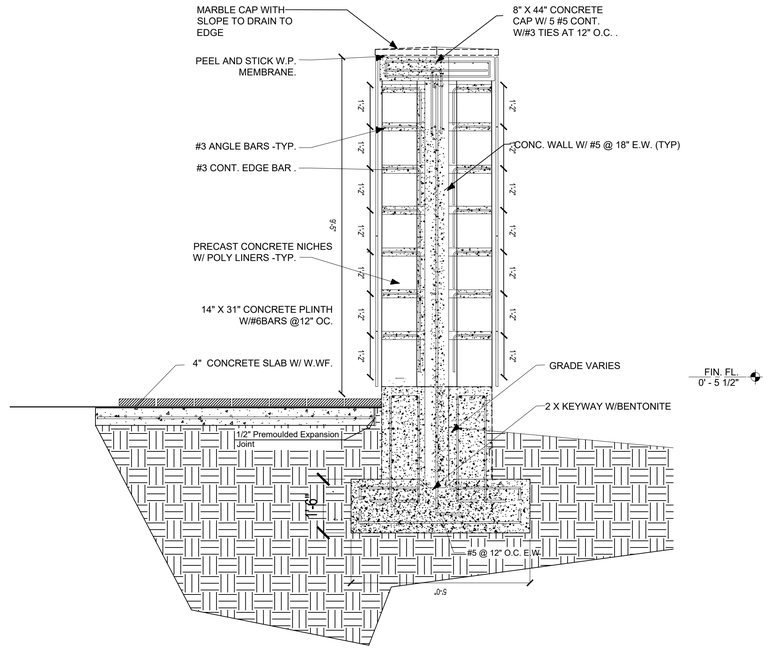


SECTION

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

2



SECTION

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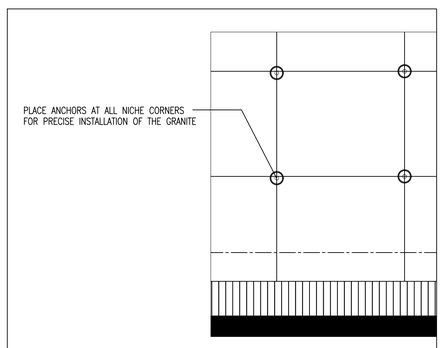
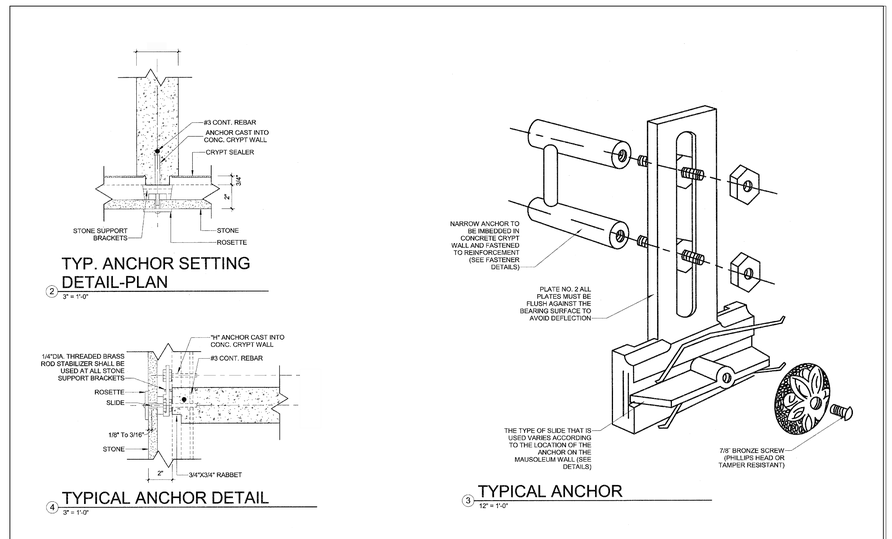
1



ANCHOR LOCATIONS



GRANITE ANCHORING DETAILS

Columbarium Details

PHONE: 561-262-0387
Jon Olson
NCARB
AR91377

Documentation

Plan For: DELRAY BEACH COLUMBARIUM

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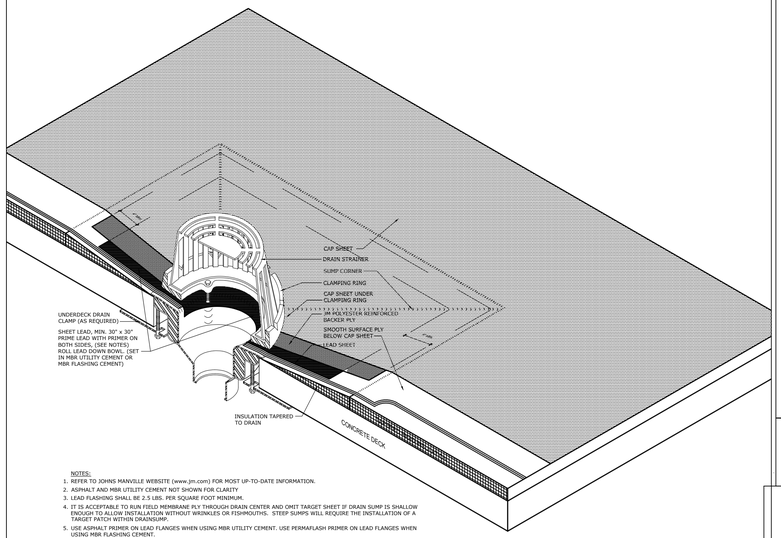
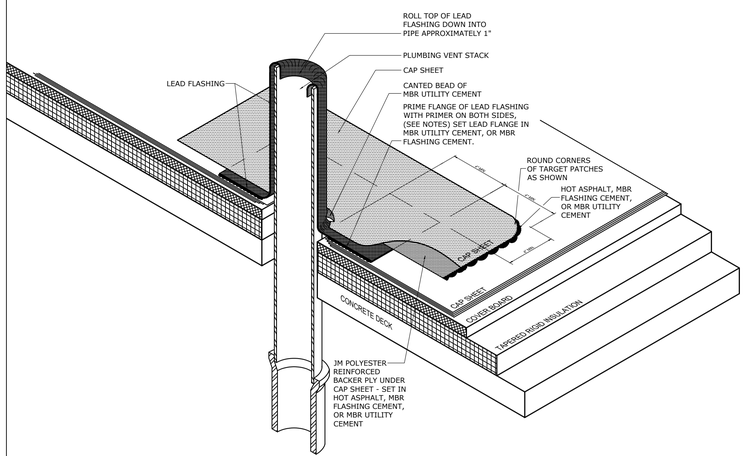


NOTES:
1. REFER TO JOHNS MANVILLE WEBSITE (www.jm.com) FOR MOST UP-TO-DATE INFORMATION.
2. ASPHALT AND MBR UTILITY CEMENT NOT SHOWN FOR CLARITY
3. LEAD FLASHING SHALL BE 2.5 LBS. PER SQUARE FOOT MINIMUM.
4. IT IS ACCEPTABLE TO RUN FIELD MEMBRANE PLY THROUGH DRAIN CENTER AND OMIT TARGET SHEET IF DRAIN SUMP IS SHALLOW ENOUGH TO ALLOW INSTALLATION WITHOUT WRINKLES OR FISHMOUTHS. STEEP SUMPS WILL REQUIRE THE INSTALLATION OF A TARGET PATCH WITHIN DRAINSUMP.
5. USE ASPHALT PRIMER ON LEAD FLANGES WHEN USING MBR UTILITY CEMENT. USE PERMAFLASH PRIMER ON LEAD FLANGES WHEN USING MBR FLASHING CEMENT.
6. EXTEND ALL PLIES TO EDGE OF DRAIN BOWL. NO SEAMS ARE ALLOWED THROUGH THE DRAIN.
7. ANY CARPENTRY, METAL WORK, OR MASONRY CONSTRUCTION SHOULD BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH LOCAL CODE REQUIREMENTS AND/OR PROJECT SPECIFICATIONS. THESE COMPONENTS SHOULD BE REVIEWED AND APPROVED BY A LICENSED DESIGN PROFESSIONAL.
8. PLEASE SEE BITUMINOUS FLASHING SPECIFICATIONS FOR A FULL DESCRIPTION OF INSTALLATION INSTRUCTIONS AND REQUIREMENTS WHICH ARE CONSIDERED A PART OF THIS DETAIL.
9. JM POLYESTER REINFORCED BACKER PLY INCLUDES DYNABASE PR OR DYNALASTIC 180 S.

TYPICAL ROOF DRAIN DETAIL 5



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2. LEAD FLASHING SHALL BE 2.5 LBS. PER SQUARE FOOT MINIMUM.
3. IF LEAD FLASHING IS NOT DESIRED OR PIPE IS TOO TALL, SEE PERMAFLASH DETAIL PMF-6 & PMF-6S FOR A SUITABLE ALTERNATIVE.
4. USE ASPHALT PRIMER ON LEAD FLANGES WHEN USING MBR UTILITY CEMENT.
5. USE PERMAFLASH PRIMER ON LEAD FLANGES WHEN USING MBR FLASHING CEMENT.
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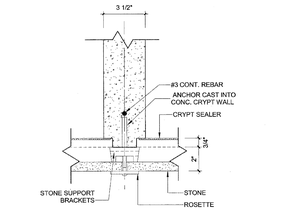
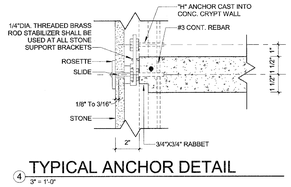
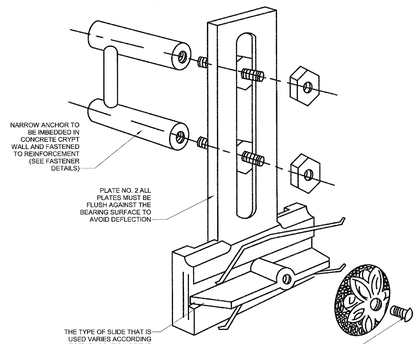
TYPICAL ROOF VENT DETAIL 6



TYP. ANCHOR SETTING DETAIL-PLAN
2 3" = 1'-0"

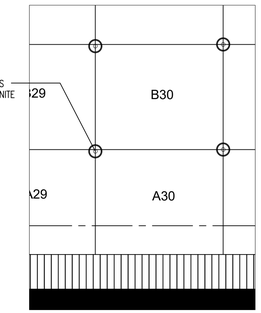


TYPICAL ANCHOR DETAIL
4 3" = 1'-0"

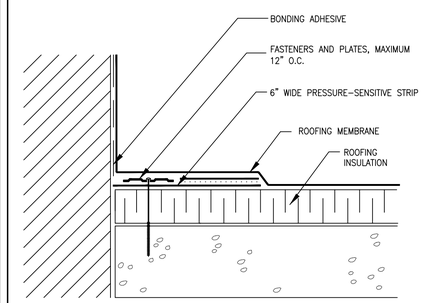


TYPICAL ANCHOR
3 12" = 1'-0"

GRANITE ANCHORING DETAILS 3

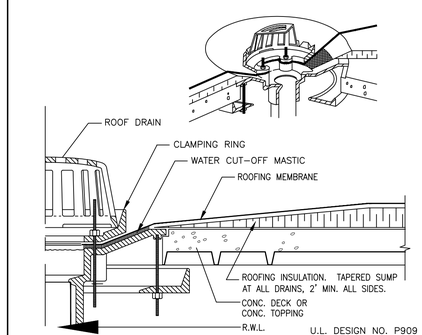


ANCHOR LOCATIONS 4



ROOF ABUTMENT DETAIL AT FLAT ROOF
AHCA-014

1
Scale: 3"=1'-0"



TYPICAL ROOF DRAIN DETAIL
0287-002

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

Roof Details

PHONE: 561-262-0387
Jon Olson
NCARB
AR91377

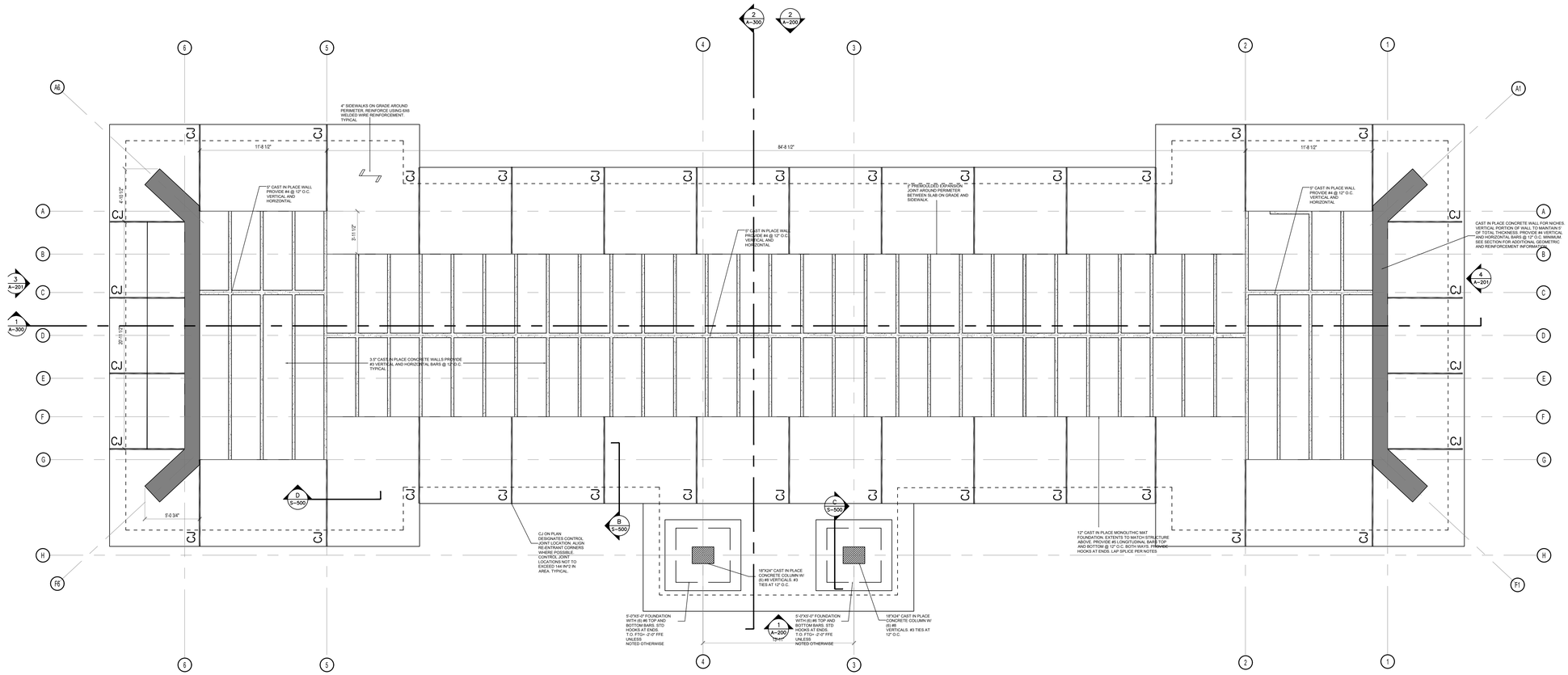
Documentation

Plan For: DELRAY BEACH MAUSOLEUM
Location: 901 SW 10 ST DELRAY BEACH, FL 33446

SPALDING + OLSON DESIGN GROUP

A-501

FILE	DATE
XXX	08-20-24
DRWN BY	CHCK BY
EJO	JDO



PROPOSED FOUNDATION PLAN

1

SCALE : 3/16" = 1'-0"

Structural Mausoleum Foundation Plan

PHONE: 561-262-0387
Jon Olson
NCARB
AR91377

Documentation

Plan For: DELRAY BEACH MAUSOLEUM

Location: 901 SW 10 ST DELRAY BEACH, FL 33446

SPALDING + OLSON DESIGN GROUP

S-100

FILE	DATE
XXX	08-20-24
DRWN BY	CHCK BY
EJO	JDO

GENERAL REQUIREMENTS

A. THE GENERAL STRUCTURAL NOTES EMPLOY THE FOLLOWING DEFINITIONS AND ABBREVIATIONS:
   1. CONTRACT DOCUMENTS – THE LATEST SET OF DRAWINGS, SPECIFICATIONS, AND RECORDED ADDENDA AND AMENDMENTS ISSUED FOR BID OR CONSTRUCTION.
   2. LICENSED PROFESSIONAL (STRUCTURAL) ENGINEER – AN ENGINEER LICENSED IN THE STATE IN WHICH THE PROJECT IS LOCATED AND QUALIFIED TO PERFORM THE WORK REQUIRED.
   3. STRUCTURAL ENGINEER OF RECORD – LICENSED PROFESSIONAL ENGINEER WHO IS IN RESPONSIBLE CHARGE FOR THE PREPARATION, SIGNING, DATING, SEALING, AND ISSUING OF STRUCTURAL ENGINEERING DOCUMENTS FOR ENGINEERING SERVICE OR CREATIVE WORK.
   4. DELEGATED ENGINEER – A LICENSED PROFESSIONAL ENGINEER WHO PROVIDES SERVICES OR CREATIVE WORK REGARDING A PORTION OF THE ENGINEERING PROJECT. THE DELEGATED ENGINEER IS THE ENGINEER OF RECORD FOR THAT PORTION OF THE ENGINEERING PROJECT. TYPICALLY, DELEGATED ENGINEERS FALL INTO ONE OF THE FOLLOWING CATEGORIES:
      a. AN INDEPENDENT CONSULTANT
      b. AN EMPLOYEE OR OFFICER OF AN ENTITY SUPPLYING COMPONENTS TO A FABRICATOR OR CONTRACTOR
      c. AN EMPLOYEE OR OFFICER OF A FABRICATOR OR CONTRACTOR
   5. DELEGATED ENGINEERING DOCUMENTS – ENGINEERING DOCUMENTS THAT ARE PREPARED BY A DELEGATED ENGINEER.
   6. DESIGN TEAM – DESIGN PROFESSIONALS INCLUDING THE ARCHITECT, STRUCTURAL ENGINEER, CIVIL ENGINEER, MEP ENGINEER, AND ANY OTHER CONSULTANT THAT ISSUES CONTRACT DOCUMENTS.
   7. CONTRACTOR – GENERAL CONTRACTOR, CONSTRUCTION MANAGER, DESIGN BUILDER, OR ANY OTHER ENTITY CONTRACTED BY THE OWNER TO PERFORM THE WORK.
   8. SHOP DRAWINGS – DRAWINGS DEPICTING INSTALLATION MEANS AND METHODS AND CATALOG INFORMATION ON STANDARD PRODUCTS. SHOP DRAWINGS SHALL BE PREPARED BASED ON ENGINEERING DIRECTION CONTAINED IN CONTRACT DOCUMENTS BY A CONTRACTOR, FABRICATOR, MANUFACTURER, OR LICENSED PROFESSIONAL ENGINEER, FOR INCORPORATION INTO THE PROJECT.
   9. ESTABLISHED CHANNELS – AT THE ONSET OF THE PROJECT, ARCHITECT, OWNER, AND CONTRACTOR SHALL ESTABLISH DESIRED LINES OF COMMUNICATION BETWEEN ALL PROJECT PARTIES. THESE AGREED UPON LINES OF COMMUNICATION ARE THE ESTABLISHED CHANNELS.
B. GENERAL STRUCTURAL NOTES ARE APPLICABLE TO THE DESIGN AND CONSTRUCTION OF THE ENTIRE PROJECT AND THUS ARE APPLICABLE TO EVERY SHEET WITHIN THIS SET.
C. WHERE A DETAIL, TYPICAL DETAIL, SECTION, TYPICAL SECTION, OR PLAN NOTE IS SHOWN FOR ONE CONDITION, IT SHALL APPLY FOR ALL SIMILAR OR LIKE CONDITIONS, UNLESS NOTED OTHERWISE.
D. ISOMETRIC VIEWS ARE FOR VISUALIZATION PURPOSES ONLY AND DO NOT CONVERY ALL OF THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.
E. SHOULD THE CONTRACTOR ENCOUNTER A CONFLICT BETWEEN THESE DRAWINGS AND ANY OTHER CONTRACT DOCUMENT OR APPLICABLE CODE OR STANDARD OF PRACTICE DURING BIDDING, THE PROVISION RESULTING IN THE GREATER COST APPLIES. SHOULD THE CONTRACTOR ENCOUNTER A CONFLICT DURING CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT A WRITTEN REQUEST FOR CLARIFICATION TO THE DESIGN TEAM, WHO WILL PROVIDE A WRITTEN RESPONSE IN RETURN.
F. THE CONTRACTOR SHALL SUPERVISE AND DIRECT ALL WORK AND SHALL BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, PROCEDURES, TECHNIQUES, AND SEQUENCE. THE CONTRACTOR HAS SOLE RESPONSIBILITY FOR THE QUALITY AND CORRECTNESS OF THE WORK.
G. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR COORDINATION OF THE STRUCTURAL WORK WITH OTHER TRADES INCLUDING, BUT NOT LIMITED TO: ARCHITECTURAL, CIVIL, AND MEP FOR FLOOR SLAB STEPS, SLOPES AND CURBS, FLOOR SLAB FINISH, OPENINGS IN STRUCTURAL FLOORS, ROOFS AND WALLS, ETC.
H. THE CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS AND COORDINATE WITH THE CONTRACT DOCUMENTS AND SHOP DRAWINGS.
I. THE CONTRACTOR SHALL NOT EMPLOY CONSTRUCTION MEANS OR METHODS THAT MAY DAMAGE UTILITIES, ADJACENT BUILDINGS, OR PROPERTY. DOCUMENTATION OF ADJACENT CONDITIONS PRIOR TO CONSTRUCTION IS RECOMMENDED. FURTHER, THE CONTRACTOR SHALL EITHER ADEQUATELY CONFINE THE SITE OR PROTECT ADJACENT PROPERTY FROM DAMAGE.
J. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR PROJECT SAFETY AND OSHA REQUIREMENTS. SHOULD THE STRUCTURAL ENGINEER OF RECORD NOTIFY THE CONTRACTOR OF A POTENTIALLY UNSAFE CONDITION, IT IS SOLELY AS A COURTESY FROM ONE PROFESSIONAL TO ANOTHER. IT SHOULD NOT BE INTERPRETED AS THE STRUCTURAL ENGINEER OF RECORD ASSUMING ANY RESPONSIBILITY FOR PROJECT SAFETY.
K. ALL STRUCTURES REQUIRE PERIODIC MAINTENANCE TO EXTEND LIFE SPAN AND ENSURE STRUCTURAL INTEGRITY FROM EXPOSURE TO THE ENVIRONMENT. A PLANNED PROGRAM OF MAINTENANCE SHALL BE ESTABLISHED BY THE BUILDING OWNER. THIS PROGRAM SHALL INCLUDE, BUT NOT BE LIMITED TO: PAINTING OF STRUCTURAL STEEL, PROTECTIVE COATINGS FOR CONCRETE, SEALANTS, CAULKED JOINTS, EXPANSION JOINTS, CONTROL JOINTS, SPALLS AND CRACKS IN CONCRETE, AND PRESSURE WASHING OF EXPOSED STRUCTURAL ELEMENTS EXPOSED TO A SALINE OR OTHER HARSH CHEMICAL ENVIRONMENT.
L. THE BUILDING OWNER SHALL NOT ALTER OR MODIFY ANY STRUCTURAL ELEMENT WITHOUT CONSULTING A LICENSED PROFESSIONAL ENGINEER. FURTHER, BUILDING OWNER SHALL NOT RENOVATE, REPURPOSE, ADD-ON TO, OR OTHERWISE MODIFY THE EXISTING STRUCTURAL SYSTEMS WITHOUT CONSULTING A LICENSED PROFESSIONAL ENGINEER.
M. CONTRACT DRAWINGS SHOW MAJOR OPENINGS IN FLOORS AND WALLS AND DO NOT NECESSARILY SHOW ALL OPENINGS REQUIRED. THE CONTRACTOR SHALL COORDINATE ALL OPENING SIZES AND LOCATIONS BETWEEN ALL DISCIPLINES AND TRADES. ADDITIONAL OPENINGS, BLOCK OUTS, AND SLEEVES MAY BE REQUIRED AND SHALL BE CONSTRUCTED USING THE TYPICAL DETAILS AND/OR REQUIREMENTS WITHIN THE CONTRACT DOCUMENTS. OPENINGS REQUIRED, BUT NOT SHOWN ON THE STRUCTURAL DRAWINGS, MUST BE APPROVED BY THE STRUCTURAL ENGINEER OF RECORD
N. THE CONTRACTOR SHALL COORDINATE PIPING AND CONDUIT EMBEDDED IN OR ATTACHED TO SLABS, SLABS-ON-DECK, BEAMS, AND COLUMNS. ANY REQUIRED MODIFICATIONS TO STRUCTURAL MEMBERS OR THEIR REINFORCEMENT AS A RESULT OF EMBEDMENT OR ATTACHMENT SHALL BE SUBMITTED TO THE DESIGN TEAM FOR THEIR REVIEW. SEE GENERAL STRUCTURAL NOTES SECTION "DESIGN CRITERIA" FOR LIMITATIONS OF MEP LOADING ON STRUCTURAL SYSTEMS.
O. THE STRUCTURAL ENGINEER OF RECORD'S ROLE DURING CONSTRUCTION
   1. THE STRUCTURAL ENGINEER OF RECORD SHALL NOT ASSUME CONTROL OF, OR RESPONSIBILITY FOR, CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES, PROJECT SAFETY, THE ACTS AND OMISSIONS OF THE CONTRACTOR, OR THEIR FAILURE TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
   2. STRUCTURAL ENGINEER OF RECORD SHALL NOT HAVE AUTHORITY TO STOP THE WORK OR AUTHORIZE CHANGES TO ANY CONTRACT SUM.
   3. PERIODIC SITE VISITS BY REPRESENTATIVES OF THE STRUCTURAL ENGINEER OF RECORD ARE SOLELY FOR THE PURPOSE OF BECOMING GENERALLY FAMILIAR WITH THE PROGRESS AND QUALITY OF THE WORK AND DETERMINING, IN GENERAL, IF THE WORK OBSERVED IS BEING PERFORMED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. THIS LIMITED OBSERVATION SHOULD NOT BE CONSTRUED AS EXHAUSTIVE OR CONTINUOUS AND THAT OBSERVATIONS ARE QUALITATIVE, NOT QUANTITATIVE. THIS LIMITED INFORMATION WILL BE USED TO ADVISE THE OWNER/CONTRACTOR/ARCHITECT OF POTENTIAL DEFICIENCIES.
P. CLARIFICATION OF POSITION OF STRUCTURALLY FRAMING ELEMENTS
   1. USE ONLY DIMENSIONS INDICATED ON THE DRAWINGS, DO NOT SCALE ANY DIMENSIONS.
   2. IF NOT INDICATED ON DRAWINGS, ASSUME EQUAL SPACING BETWEEN ESTABLISHED DIMENSIONS.
   3. CENTER LINES OF COLUMNS AND FOUNDATIONS SHALL COINCIDE WITH GRID LINE INTERSECTION, UNLESS NOTED OTHERWISE.
   4. CENTER LINES OF FOOTINGS, GRADE BEAMS, AND WALLS SHALL COINCIDE WITH CENTER LINES OF FOUNDATIONS, UNLESS NOTED OTHERWISE.
   5. CENTER LINES OF FRAMING MEMBERS SHALL COINCIDE WITH COLUMN CENTER LINES, UNLESS NOTED OTHERWISE.
   6. ELEVATIONS SHOWN ARE TO TOP OF FOUNDATIONS, SLABS, OR BEAMS, UNLESS NOTED OTHERWISE.

DESIGN CRITERIA

A. STRUCTURE LOCATION:
   LONGITUDE: 26.44833
   LATITUDE: -80.08328
B. LOADING:
   1. SUPERIMPOSED DEAD & LIVE LOADS:
      ALL DEAD LOADS LISTED BELOW ARE IN ADDITION TO THE STRUCTURE'S SELF-WEIGHT.

OCCUPANCY	LIVE LOAD	DEAD LOAD (SUPERIMPOSED)
TYPICAL	40 PSF	10 PSF (MISC)
ATTIC (UNINHABITABLE WITH STORAGE)	20 PSF	N/A
TEMPORARY CONSTRUCTION	20 PSF	N/A
ROOF	30 PSF	15 PSF

   2. WIND LOAD:
      ULTIMATE DESIGN WIND SPEED, V_{ult}: 156 MPH
      NOMINAL DESIGN WIND SPEED, V_{asd}: 121 MPH
      RISK CATEGORY: I
      WIND EXPOSURE CATEGORY: C
      ENCLOSURE CLASSIFICATION: ENCLOSED
      INTERNAL PRESSURE COEFFICIENT: +/- 0.18
      COMPONENTS & CLADDING DESIGN PRESSURES: SEE WIND PRESSURE DIAGRAMS
C. HANDRAIL AND GUARDRAIL LOADS:
   CONCENTRATED AND DISTRIBUTED LOADS ARE TO BE APPLIED AT THE HANDRAIL OR TOP RAIL IN ANY DIRECTION. CONCENTRATED AND DISTRIBUTED LOADS ARE NOT TO BE APPLIED CONCURRENTLY.
      CONCENTRATED LOAD 200 LB
      DISTRIBUTED LOAD 50 PLF
D. FUTURE EXPANSION:
   NO PROVISIONS HAVE BEEN MADE FOR FUTURE VERTICAL OR HORIZONTAL EXPANSION OF THE STRUCTURE.
E. SERVICEABILITY:
   1. DEFLECTION LIMITS
      a. FLOOR MEMBERS
         • TOTAL LOAD DEFLECTION: L/240
         • LIVE LOAD DEFLECTION: L/360
      b. EXTERIOR WALLS & CLADDING:
         LIVE LOAD DEFLECTION: L/120

GOVERNING CODES & STANDARDS

BUILDING CODE:
FBC 2020 FLORIDA BUILDING CODE 2020 7TH EDITION
STANDARDS:
ASCE7 AMERICAN SOCIETY OF CIVIL ENGINEERS: MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES
ACI 318 AMERICAN CONCRETE INSTITUTE: BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE
ACI 530 AMERICAN CONCRETE INSTITUTE: BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES
AISC 360 AMERICAN INSTITUTE OF STEEL CONSTRUCTION: SPECIFICATION FOR STEEL BUILDINGS
NDS NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION

CONCRETE

A. ALL CONCRETE CONSTRUCTION SHALL BE IN ACCORDANCE WITH ACI 318 SPECIFICATIONS
B. THE USE OF RECYCLED CONCRETE IS PROHIBITED WITHOUT WRITTEN APPROVAL FROM THE STRUCTURAL ENGINEER OF RECORD.
C. NORMAL WEIGHT CONCRETE SHALL BE USED FOR ALL CONCRETE MEMBERS UNLESS NOTED OTHERWISE. NORMAL WEIGHT CONCRETE SHALL HAVE A CURED DENSITY OF 145 PCF +/-5 PCF. WHERE LIGHT WEIGHT CONCRETE IS SPECIFIED THE CURED DENSITY SHALL BE 112 PCF +/-3 PCF.
D. EACH MIX SHALL BE UNIQUELY IDENTIFIED BY MIX NUMBER AND THE INTENDED LOCATION OF PLACEMENT ON THE SPECIFIC PROJECT SHALL BE CLEARLY STATED. SEE TABLE ON S-2 FOR MINIMUM STRENGHTS
E. ALL PROPOSED CONSTRUCTION JOINT LOCATIONS SHALL BE SUBMITTED BY THE CONTRACTOR TO THE STRUCTURE ENGINEER OF RECORD FOR APPROVAL. HORIZONTAL CONSTRUCTION JOINTS SHALL NOT BE PERMITTED IN BEAMS, WALLS, AND SLABS UNLESS SPECIFICALLY SHOWN ON STRUCTURAL DRAWINGS OR BY WRITTEN APPROVAL FROM THE STRUCTURAL ENGINEER OF RECORD. FOR MILD REINFORCED MEMBERS, CONSTRUCTION JOINTS SHALL OCCUR WITHIN THE MIDDLE THIRD OF A MEMBER'S SPAN. ALL APPROVED CONSTRUCTION JOINTS SHALL BE INDICATED, DIMENSIONED, AND DETAILED ON THE CONCRETE REINFORCEMENT SHOP DRAWINGS.
F. PROVIDE A 3/4 INCH CHAMFER AT ALL EXPOSED CORNERS OF BEAMS, WALLS, ETC UNLESS NOTED OTHERWISE.
G. CONCRETE CORDING AND INSTALLATION OF DRILLED ANCHORS IS NOT PERMITTED WITHOUT WRITTEN APPROVAL FROM THE STRUCTURAL ENGINEER OF RECORD.
H. REFER TO THE ARCHITECTURAL DRAWINGS FOR ALL CONCRETE DIMENSIONS NOT SHOWN ON THE STRUCTURAL DRAWINGS. THE CONTRACTOR SHALL COORDINATE BETWEEN THE ARCHITECTURAL, STRUCTURAL, AND MEP DRAWIGNS TO FURNISH DIMENSIONED DRAWINGS THAT LOCATE AND SIZE ALL SLAB EDGES, OPENINGS, AND PENETRATIONS. THESE DRAWINGS SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER OF RECORD FOR APPROVAL.

CONCRETE MASONRY

A. MANUFACTURE AND INSTALL ALL CONCRETE MASONRY IN ACCORDANCE WITH ACI 530 SPECIFICATIONS. ALL MASONRY DESIGN SHALL CONFORM TO ACI 530/ASCE 5/TMS 402 AND ALL MASONRY CONSTRUCTION SHALL CONFORM TO ACI 530.1/ASCE 6/TMS 602.
B. ALL LOAD-BEARING, NON-LOAD-BEARING, AND BACKUP WALL CONCRETE MASONRY UNIT CONSTRUCTION SHALL CONFORM TO THE FOLLOWING MATERIAL STANDARDS:
   1. CONCRETE MASONRY UNITS: ASTM C90, NORMAL WEIGHT (135 PCF)
   2. MORTAR: ASTM C270, TYPE 'S' OR 'M' PORTLAND CEMENT/LIME ONLY (USE TYPE 'M' MORTAR WHEN MASONRY IS IN DIRECT CONTACT WITH SOIL; TYPE 'S' IS IN ALL OTHER CONDITIONS)
   3. GROUT: ASTM C476
   4. PORTLAND CEMENT: ASTM C150, TYPE I (TYPE III MAY BE USED FOR COLD-WEATHER CONSTRUCTION)
   5. HYDRATED LIME: ASTM C207, TYPE 'S'
   6. AGGREGATE: ASTM C404 (FOR GROUT)
   7. STEEL REINFORCEMENT: ASTM A615, GRADE 60
   8. JOINT REINFORCEMENT: ASTM A82, TRUSS OR LADDER TYPE, GALVANIZE PER ASTM A153
C. CONCRETE MASONRY UNITS:
   1. F'_m SHALL BE **2000** PSI (MINIMUM NET AREA CMU COMPRESSIVE STRENGTH SHALL BE **2000** PSI).
   2. LAY CONCRETE MASONRY UNITS IN RUNNING BOND UNLESS NOTED OTHERWISE WITH UNITS DESIGNED TO ALIGN WITH WEBS IN EACH COARSE.
D. MORTAR:
   1. HEAD AND BED JOINTS SHALL BE 3/8 INCHES FOR THE THICKNESS OF THE FACE SHELL. WEBS ARE TO BE FULLY MORTARED IN ALL COURSES OF: PIERS, COLUMNS AND PILASTERS, IN THE STARTING COURSE, AND WHERE AN ADJACENT CELL IS TO BE GROUTED. REMOVE MORTAR PROTRUSIONS EXTENDING ½ INCHES OR MORE INTO CELLS TO BE GROUTED.
   2. PROVIDE FULL FACE SHELL MORTAR COVERAGE ON MASONRY UNIT HORIZONTAL AND VERTICAL (BED AND HEAD) FACE SHELL JOINTS.
E. GROUT:
   1. MASONRY GROUT SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF **2500** PSI AT 28-DAYS.
   2. GROUT MIX SHALL CONTAIN PORTLAND CEMENT, AGGREGATE, AND A GROUT-ENHANCING SHRINK-COMPENSATING ADMIXTURE.
   3. MAXIMUM SIZE OF AGGREGATE SHALL BE 3/8 INCH. SLUMP SHALL BE 8 TO 11 INCHES. WATER REDUCING ADMIXTURES MAY BE USED.
   4. GROUT ALL MASONRY CONTAINING REINFORCEMENT, **ALL CELLS OF 4-HOUR RATED WALLS**, AND WHERE INDICATED ON THE DRAWINGS. ALLOW MORTAR TO CURE 24 HOURS PRIOR TO GROUTING. PROVIDE CLEANOUT OPENINGS AT THE BASE OF THE CELLS CONTAINING REINFORCEMENT TO CLEAN THE CELL AND TO TIE THE VERTICAL BAR TO THE DOWEL. IN HIGH-LIFT GROUTING, USE 5'-0" (MAXIMUM) LIFTS, WITH ½ HOUR TO 1 HOUR BETWEEN LIFTS.
   5. GROUT SHALL BE VIBRATED WHILE PLACING TO ENSURE THAT CELLS ARE COMPLETELY FILLED.
F. STEEL REINFORCEMENT:
   1. PROVIDE VERTICAL REINFORCEMENT IN CELLS OF CONCRETE MASONRY UNITS (FULLY EMBEDDED IN GROUT) AS SHOWN ON THE PLANS AND OTHER DETAILS. MINIMUM REINFORCEMENT OF EXTERIOR MASONRY SHALL BE AS FOLLOWS:
      a. 1-#5 AT A MAXIMUM SPACING OF 48 INCHES
      b. 1-#5 AT EACH CORNER
      c. HEAVIER REINFORCEMENT MAY BE REQUIRED BY PLAN NOTES OR DETAILS IN THE DRAWINGS.
   2. REINFORCE WALLS WHERE INDICATED ON THE DRAWINGS AND AT ALL INTERSECTIONS, EACH SIDE OF OPENINGS AND AT THE ENDS OF WALLS. USE BAR SPACERS AT 10 FEET ON CENTER WHERE GROUT POUR HEIGHT EXCEEDS 10 FEET.
   3. ALL HORIZONTAL REINFORCEMENT AT ENDS OF BOND BEAMS SHALL HAVE STANDARD HOOK INTO VERTICAL GROUTED CELL. PROVIDE CORNER BARS SUCH THAT HORIZONTAL REINFORCEMENT IS CONTINUOUS AROUND CORNERS.
   4. COVER TO STEEL REINFORCEMENT WITHIN MASONRY ELEMENTS SHALL NOT BE LESS THAN THE FOLLOWING:
      a. EXPOSED TO EARTH OR WEATHER: 1 ½ INCHES (#5 AND SMALLER BARS), 2 INCHES (#6 AND LARGER BARS)
      b. NOT EXPOSED TO EARTH OR WEATHER: 1 ½ INCHES
G. JOINT REINFORCEMENT:
   1. JOINT REINFORCEMENT SHALL BE LADDER TYPE, **9 GAUGE**, SPACED VERTICALLY AT EVERY 2 COURSES UNLESS NOTED OTHERWISE.
   2. PROVIDE JOINT REINFORCEMENT SPACED VERTICALLY AT EVERY COURSE FOR MASONRY BELOW GRADE AND IN PARAPETS AND CANTILEVERED WALLS.
   3. PROVIDE TWO ROWS OF JOINT REINFORCEMENT AT EVERY COURSE AT TOP AND BOTTOM OF OPENINGS (EXTEND 24 INCHES EACH SIDE).
   4. PROVIDE TWO ROWS OF JOINT REINFORCEMENT AT EVERY COURSE AT BOND BEAMS.
   5. OVERLAP DISCONTINUOUS JOINT REINFORCEMENT BY AT LEAST 6 INCHES.
   6. USE PREFABRICATED CORNERS AND TEES.
   7. EXTEND JOINT REINFORCEMENT A MINIMUM OF 4 INCHES INTO THE TIE BEAM.
   8. REFER TO PLANS AND DETAILS FOR BONDED JOINT REQUIREMENTS AT WALL CORNERS AND INTERSECTIONS. WHERE INDICATED ON DRAWINGS, INTERLOCK WALLS WITH METAL TIES, ANCHORS, OR PREFABRICATED JOINT REINFORCEMENT UNLESS NOTES OTHERWISE ON DRAWINGS OR SEE SPECIFICATIONS.
   9. LONGITUDINAL WIRES OF JOINT REINFORCEMENT SHALL BE FULLY EMBEDDED IN MORTAR OR GROUT WITH A MINIMUM HORIZONTAL EDGE COVER OF 5/8 INCHES WHEN EXPOSED TO EARTH AND WEATHER AND ½ INCHES WHEN NOT EXPOSED TO EARTH OR WEATHER.
H. REINFORCED MASONRY WALL CONSTRUCTION SHALL BE INSPECTED BY AN ENGINEER OR ARCHITECT IN ACCORDANCE WITH ACI 530.1/ASCE 6.
I. WHERE ANCHOR BOLTS, WEDGE ANCHORS, OR ANCHORS SET IN EPOXY ARE PLACED IN A MASONRY WALL, FILL CELLS WITH GROUT FOR BOLTED COURSE, ONE COURSE ABOVE AND TWO COURSES BELOW.
J. USE PRESSURE-TREATED WOOD FOR WOOD IN CONTACT WITH MASONRY.
K. CALCIUM CHLORIDE SHALL NOT BE USED IN MORTAR OR GROUT.
L. REFER TO ARCHITECT'S DRAWINGS FOR THE EXTENT OF MASONRY WALLS AND DIMENSIONED LOCATION OF OPENINGS. NON-LOAD BERING WALLS MAY NOT BE SHOWN ON THE STRUCTURAL DRAWINGS.
M. CONCRETE MASONRY UNITS SHALL BE CUT BELOW BEAMS, LINTELS, OR BOND BEAMS AS REQUIRED IN ORDER TO SET CONTINUOUS BEAM, LINTEL, OR BOND BEAMS AT THE PROPER ELEVATION.

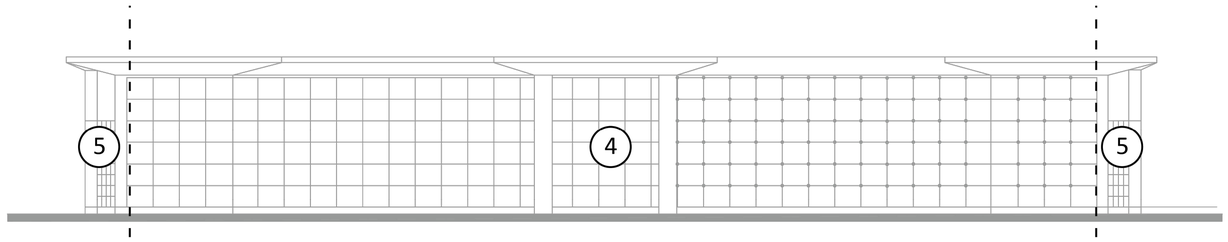
CONCRETE REINFORCEMENT

A. ALL CONCRETE REINFORCEMENT SHALL BE INSTALLED IN ACCORDANCE WITH ACI 318 SPECIFICATIONS
B. ALL REINFORCING STEEL SHALL BE ASTM A615, GRADE 60 UNLESS NOTED OTHERWISE.
C. WELDED WIRE REINFORCEMENT SHALL CONFORM TO THE MATERIAL REQUIREMENTS OF ASTM A1064.
D. ALL 90°, 135°, AND 180° HOOKED REINFORCEMENT SPECIFIED AND GRAPHICALLY DEPICTED IN THE CONTRACT DOCUMENTS SHALL BE DETAILED IN ACCORDANCE WITH ACI 318 STANDARD HOOK GEOMETERY FOR DEFORMED BARS IN TENSION AND FOR STIRRUPS, TIES, AND HOOPS.
E. FOR EVERY VERTICAL OR HORIZONTAL BAR DISCONTINUED BY AN OPENING, ONE BAR (MINIMUM OF 2 BARS) SHALL BE ADDED AT SIDE OF OPENING (HALF TO EACH SIDE, TYPICAL).
F. FOR CONCRETE CLEAR COVER TO REINFORCEMENT,SEE TABLE AT END OF THIS SECTION UNLES NOTED OTHERWISE CLEAR COVER IN PARENTHESES () DENOTES CLEAR COVER WHEN THE AS-BUILT APPLICATION IS EXPOSED TO WEATHER.
A. ALL LAP SPLICES SHALL BE CLASS B TENSION LAP SPLICES IN ACCORDANCE WITH ACI 318 UNLESS NOTED OTHERWISE. MAINTAIN MINIMUM 48 x BAR DIAMETER LAP SPLICES THROUGHOUT UNLESS NOTED AS CONTINUOUS, REINFORCEMENT SHALL ONLY BE SPLICED AT LOCATIONS SHOWN ON THE CONTRACT DOCUMENTS. SPLICES AT NON-SPECIFIED LOCATIONS SHALL BE SUBMITTED BY THE CONTRACTOR TO THE STRUCTURAL ENGINEER OF RECORD FOR APPROVAL.
B. A MINIMUM LAP SPLICE OF 8" SHALL BE PROVIDED AT ALL END AND SIDE LAP CONDITIONS FOR WELDED WIRE REINFORCEMENT UNLESS NOTED OTHERWISE.
C. THE USE OF WELDED SPLICES IS PROHIBITED UNLESS NOTED OTHERWISE. THE CONTRACTOR SHALL SUBMIT THE LOCATIONS OF WELDED SPLICES TO THE STRUCTURAL ENGINEER OF RECORD FOR APPROVAL. IF APPROVED, WELDED SPLICES SHALL CONFORM TO THE REQUIREMENTS OF AWS D1.
D. DOWELS SHALL MATCH SIZE AND SPACING OF PRIMARY REINFORCEMENT UNLESS NOTED OTHERWISE.
E. SEE TYPICAL DETAILS FOR REINFORCEMENT REQUIRED AT OPENINGS AND PENETRATIONS.
F. SUBMIT SHOP DRAWINGS WHICH ADEQUATELY DEPICT THE REINFORCEMENT BAR SIZES AND PLACEMENT. WRITTEN DESCRIPTION OF REINFORCEMENT WITHOUT ADEQUATE SECTIONS, ELEVATIONS, AND DETAILS IS NOT ACCEPTABLE.
G. MINIMUM CONCRETE COVER REQUIREMENTS TO MEET THE FOLLOWING:

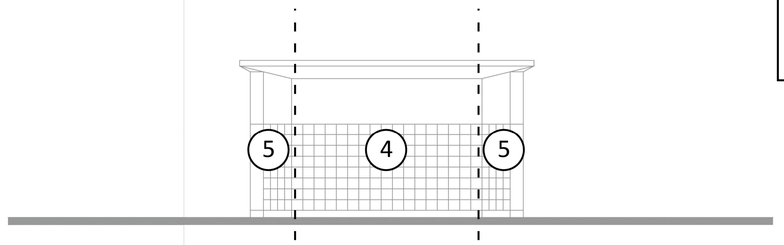
Element	Bottom	Top	Sides
Footings	3"	2"	3"
Beams Above Grade	1 1/2"	1 1/2"	1 1/2"
Columns	-	-	1 5/8"
Slabs on Grade	2"	1"	2"
Slabs Above Grade	3/4"	3/4"	1"
Slabs Exposed to Weather	1 1/2"	1 1/2"	1 1/2"
Walls Retaining Fill	-	-	2"
Walls Exposed to Weather	-	-	1 1/2"
Walls - all others	-	-	1"

POST-INSTALLED ANCHORS

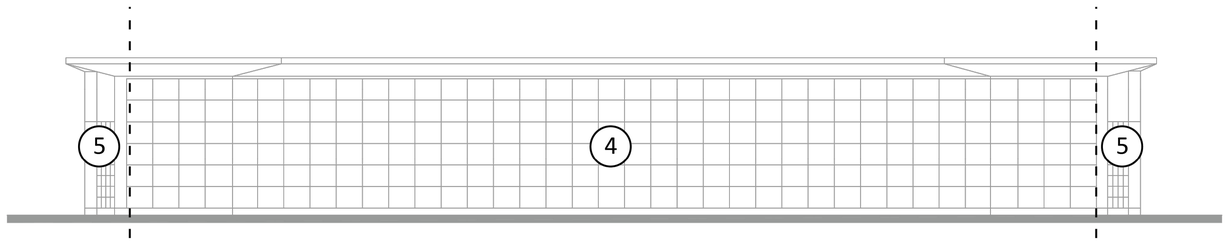
A. POST-INSTALLED ANCHORS SHALL INCLUDE MECHANICAL, SCREW, AND ADHESIVE ANCHORS OF SIZE, NUMBER, AND SPACING AS SHOWN ON THE STRUCTURAL DRAWINGS. POST-INSTALLED ANCHORS SHALL ONLY BE USED WHERE SPECIFIED ON THE STRUCTURAL DRAWINGS.
B. MECHANICAL ANCHORS (EXPANSION ANCHORS/EXPANSION BOLTS) INTO EXISTING CONCRETE AS SHOWN ON THESTRUCTURAL DRAWINGS SHALL BE ONE OF THE FOLLOWING PRODUCTS:
   1. KWIK BOLT TZ ANCHORS MANUFACTURED BY HILTI FASTENING SYSTEMS
   2. STRONG-BOLT 2 ANCHORS MANUFACTURED BY SIMPSON STRONGTIE COMPANY
   3. POWER-STUD+ SD2 ANCHORS MANUFACTURED BY DEWALT
C. MECHANICAL ANCHORS (EXPANSION ANCHORS/EXPANSION BOLTS) INTO EXISTING CONCRETE MASONRY AS SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE ONE OF THE FOLLOWING PRODUCTS:
   1. KWIK BOLT 3 ANCHORS MANUFACTURED BY HILTI FASTENING SYSTEMS
   2. WEDGE-ALL ANCHORS MANUFACTURED BY SIMPSON STRONGTIE COMPANY
   3. POWER-STUD+ SD1 ANCHORS MANUFACTURED BY DEWALT
D. SCREW ANCHORS INTO EXISTING CONCRETE AND CONCRETE MASONRY AS SHOWN ON THE STRUCTURAL DRAWINGS HALL BE ONE OF THE FOLLOWING PRODUCTS:
   1. KWIK HUS EZ ANCHORS MANUFACTURED BY HILTI FASTENING SYSTEMS
   2. TITEN HD ANCHORS MANUFACTURED BY SIMPSON STRONGTIE COMPANY
   3. SCREW-BOLT+ ANCHORS MANUFACTURED BY DEWALT
E. ADHESIVE ANCHORS (EPOXY ANCHORS/DRILL & EPOXY) INTO EXISTING CONCRETE AS SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE ONE OF THE FOLLOWING ADHESIVE PRODUCTS:
   1. HIT-HY200 EPOXY ADHESIVE WITH HAS ROD MANUFACTURED BY HILTI FASTENING SYSTEMS
   2. AT-XP ADHESIVE MANUFACTURED BY SIMPSON STRONGTIE COMPANY WITH AN ALL-THREAD GRADE 60 STEEL ROD
   3. PURE110+ EPOXY ADHESIVE MANUFACTURED BY DEWALT WITH AN ALL-THREAD GRADE 60 STEEL ROD
F. THE GENERAL CONTRACTOR SHALL OBTAIN APPROVAL FROM THE STRUCTURAL ENGINEER OF RECORD PRIOR TO USING POST-INSTALLED ANCHORS FOR MISSING OR MISPLACED CAST-IN-PLACE ANCHORS.
G. SUBSTITUTION REQUESTS, FOR ALTERNATIVE PRODUCTS, SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER OF RECORD WITH CALCULATIONS THAT ARE PREPARED AND SEALED BY A LICENSED PROFESSIONAL ENGINEER. CALCULATIONS SHALL SHOW THAT THE SUBSTITUTED PRODUCT WILL ACHIEVE AN EQUIVALENT CAPACITY USING THE APPROPRIATE DESIGN PROCEDURE REQUIRED BY THE REFERENCED BUILDING CODE.
H. ALTERNATIVE PRODUCTS SUBMITTED TO THE STRUCTURAL ENGINEER OF RECORD FOR APPROVAL SHALL HAVE A VALID RESEARCH REPORT, ALSO KNOWN AS EVALUATION REPORT, INDICATING COMPLIANCE WITH APPROPRIATE ACCEPTANCE CRITERIA REQUIRED BY THE REFERENCED BUILDING CODE FOR THE INTENDED LOAD TYPE AND USE (E.G. WIND, SEISMIC, SUSTAINED TENSION, ETC). ALTERNATIVE PRODUCTS SUBMITTED SHALL INDICATE THAT THE ANCHOR IS PERMITTED FOR RESISTING LOADS IN CRACKED CONCRETE. RESEARCH REPORTS SHALL BE ISSUED BY A SOURCE APPROVED BY THE AUTHORITY HAVING JURISDICTION.
I. LOCATE, BY NON-DESTRUCTIVE MEANS, ALL EXISTING REINFORCEMENT, AND AVOID DURING INSTALLATION OF ANCHORS. IF EXISTING REINFORCMENT LAYOUT PROHIBITS THE INSTALLATION OF ANCHORS AS INDICATED ON THE STRUCTURAL DRAWINGS, THE CONTRACTOR SHALL NOTIFY THE STRUCTURAL ENGINEER OF RECORD IMMEDIATELY.
J. HOLES SHALL BE DRILLED AND CLEANED, AND ANCHORS SHALL BE INSTALLED, PER THE MANUFACTURER 'S PUBLISHED INSTALLATION INSTRUCTIONS. DEFECTIVE OR ABANDONED HOLES SHALL BE FILLED WITH NON-SHRINK GROUT OR AN INJECTABLE ADHESIVE MATCHING THE ADJACENT CONCRETE COMPRESSIVE STRENGTH.
K. HOT DIPPED GALVANIZED STEEL ANCHORS SHALL BE USED AT ALL EXTERIOR LOCATIONS AND WHERE SPECIFICALLY INDICATED ON THE DRAWINGS.
L. MASONRY ANCHORS SHALL NOT BE INSTALLED IN HOLLOW CORE MASONRY. IF INSTALLATION INTO HOLLOW CORE MASONRY IS DESIRED, SUBMIT ALTERNATIVE PRODUCT FOR REVIEW AND APPROVAL BY THE STRUCTURAL ENGINEER OF RECORD.
M. MASONRY ANCHORS SHALL NOT BE INSTALLED IN HEAD JOINTS.
N. IN ADDITION TO THE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS, THE FOLLOWING GUIDELINES SHALL BE FOLLOWED FOR INSTALLATION OF ADHESIVE ANCHORS:
   1. ADHESIVE ANCHORS SHALL BE INSTALLED IN CONCRETE HAVING A MINIMUM AGE OF 21 DAYS AT TIME OF ANCHOR INSTALLATION.
   2. ADHESIVE ANCHORS SHALL BE INSTALLED IN DRY CONCRETE, AND DURING DRY CONDITIONS.
   3. ADHESIVE ANCHORS SHALL BE INSTALLED IN HOLES PREDRILLED WITH A CARBIDE TIPPED DRILL BIT.
   4. ADHESIVE ANCHORS SHALL BE INSTALLED WITHIN THE TEMPERATURE RANGE SPECIFIED IN THE MANUFACTURER'S PRINTED INSTALLATION INST



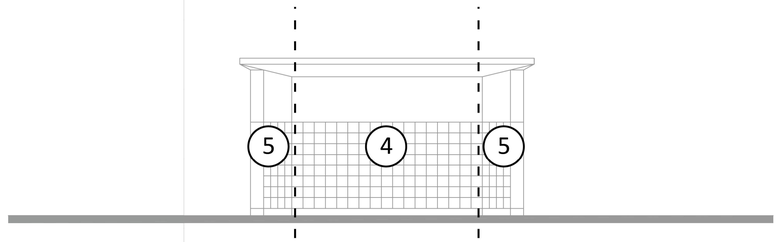
A WIND DIAGRAMS - FRONT ELEVATION
SCALE: 1/8" = 1'-0"



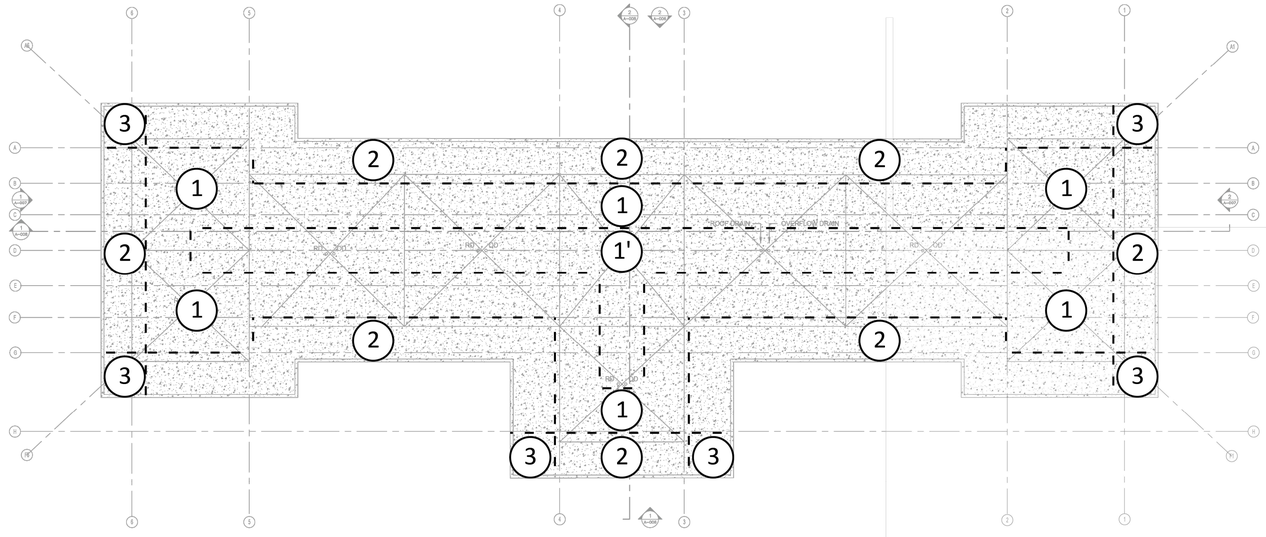
B WIND DIAGRAMS - SIDE ELEVATION
SCALE: 1/8" = 1'-0"



C WIND DIAGRAMS - REAR ELEVATION
SCALE: 1/8" = 1'-0"



D WIND DIAGRAMS - SIDE ELEVATION
SCALE: 1/8" = 1'-0"



E WIND DIAGRAMS - ROOF PLAN
SCALE: 1/8" = 1'-0"

WALL WIND PRESSURES (PSF)						
ZONE	TRIBUTARY AREA (SF)					
	10	20	50	100	200	500
4	+31/-33	+29/-32	+27/-30	+26/-29	+25/-27	+23/-26
5	+31/-41	+29/-38	+27/-34	+26/-32	+25/-29	+23/-26

ROOF WIND PRESSURES (PSF)						
ZONE	TRIBUTARY AREA (SF)					
	10	20	50	100	200	500
1'	+14/-31	+13/-31	+12/-31	+11/-31	+11/-26	+11/-21
1	+14/-53	+13/-49	+12/-45	+11/-41	+11/-38	+11/-33
2	+14/-70	+13/-65	+12/-59	+11/-55	+11/-50	+11/-45
3	+14/-95	+13/-86	+12/-74	+11/-65	+11/-56	+11/-45
2o	-70	-64	-56	-50	-44	-36
3o	-95	-84	-71	-60	-50	-36

WIND PRESSURE LEGEND

(#) Denotes wind pressure zone

Denotes wind load separation

WIND PRESSURE NOTES

- Numbers on this sheet are the components and cladding gross unfactored service pressures perpendicular to the surface (in P.S.F.) based on tributary area. Multiply service pressures by 1.6 to obtain wind pressures for factored loads using strength design (ASCE 7-16 2.3).
- Pressures are derived from ASCE 7-16.
- Directionality factor Kd = .85
- Negative pressures act away from surface, positive pressures act toward surface.

Structural General Notes

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Documentation

Plan For: DELRAY BEACH MAUSOLEUM
Location: 901 SW 10 ST DELRAY BEACH, FL 33446

SPALDING + OLSON DESIGN GROUP

S-002

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XXX	08-20-24
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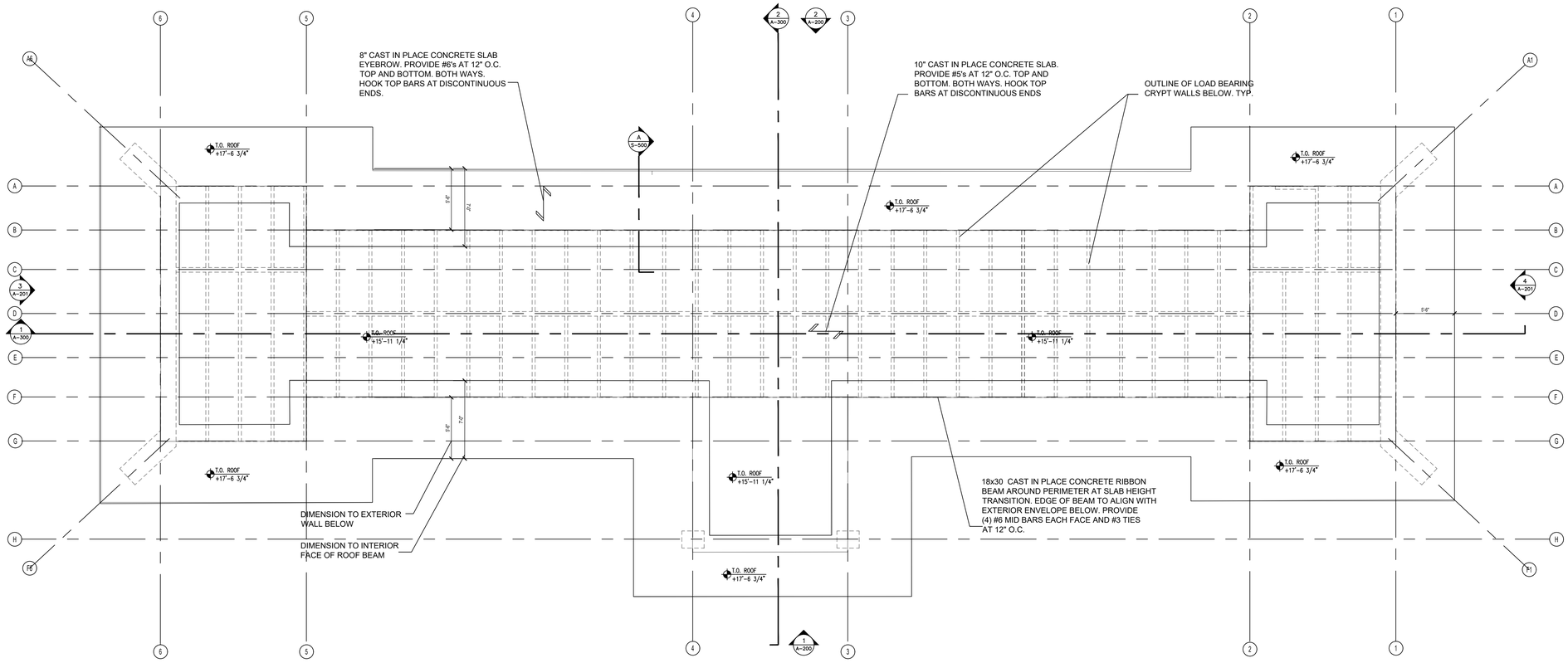
EJO	JDO



STRUCTURAL ROOF PLAN 1

SCALE : 3/16" = 1'-0"

Structural Mausoleum Roof Plan

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Documentation

Plan For: DELRAY BEACH MAUSOLEUM

Location: 901 SW 10 ST DELRAY BEACH, FL 33446

SPALDING + OLSON DESIGN GROUP

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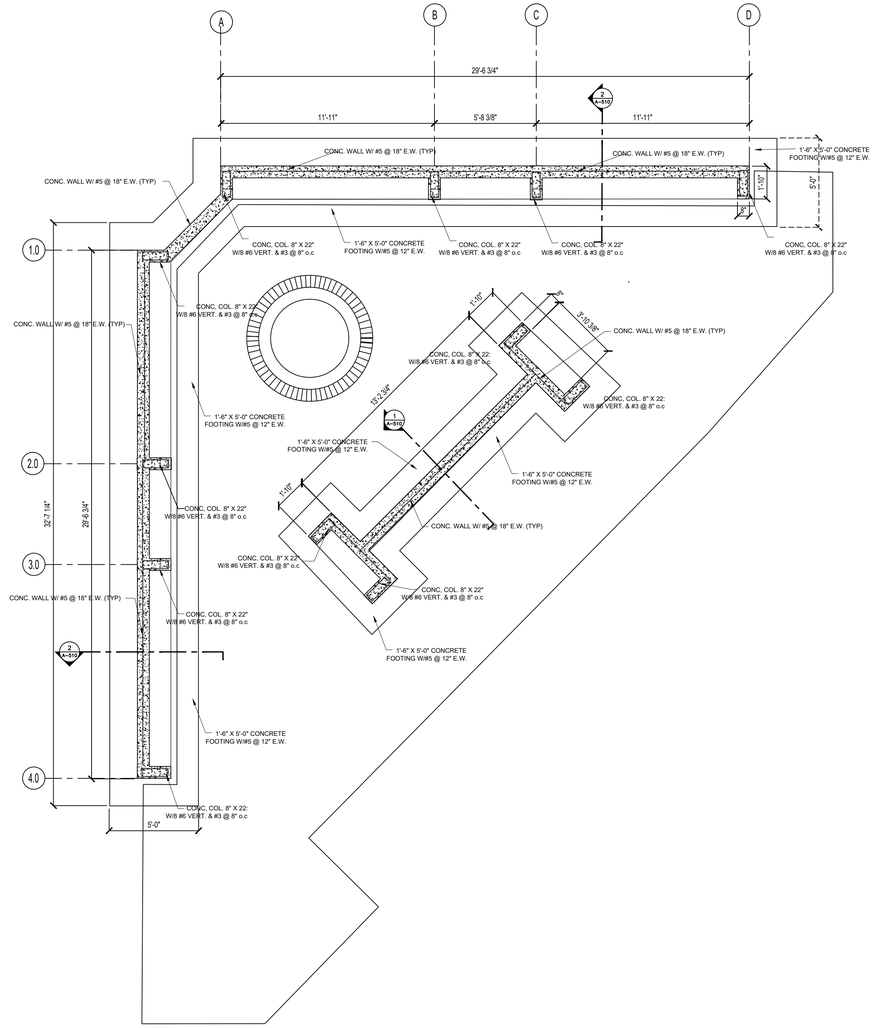

PROPOSED COLUMBARIUM FOUNDATION PLAN

SCALE : 3/16" = 1'-0"

1

Structural Foundation and Floor Plan

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Documentation

Plan For: DELRAY BEACH COLUMBARIUM

Location: 901 SW 10 ST DELRAY BEACH, FL 33446

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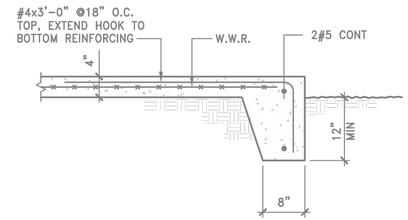
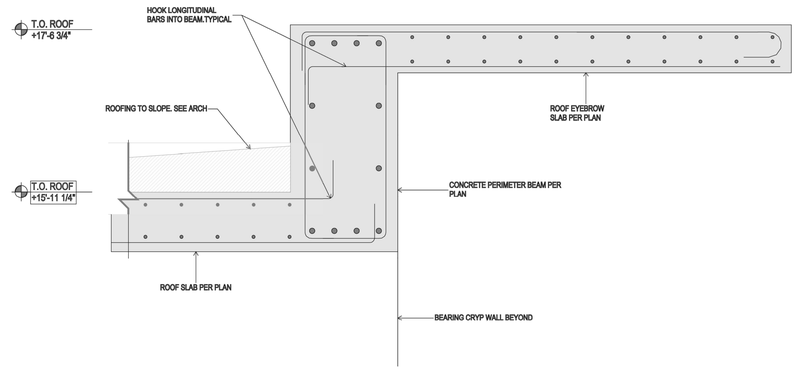
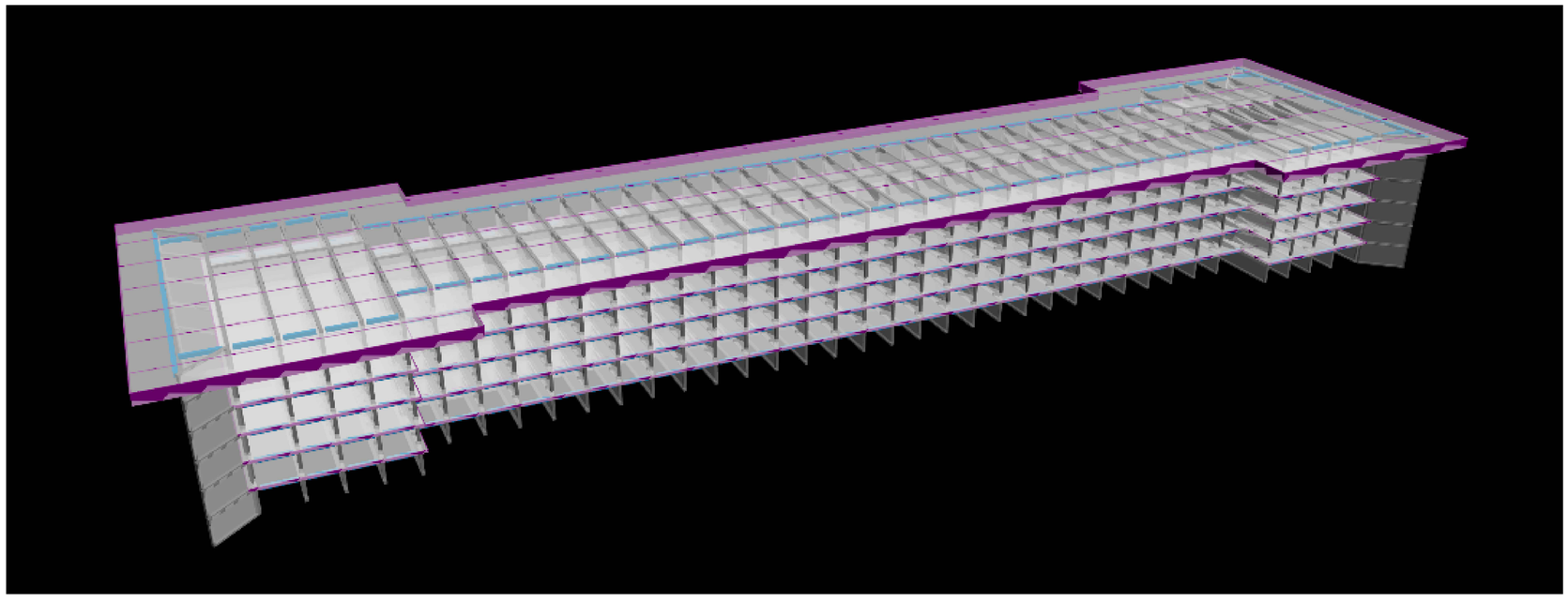


B SLAB EDGE SECTION

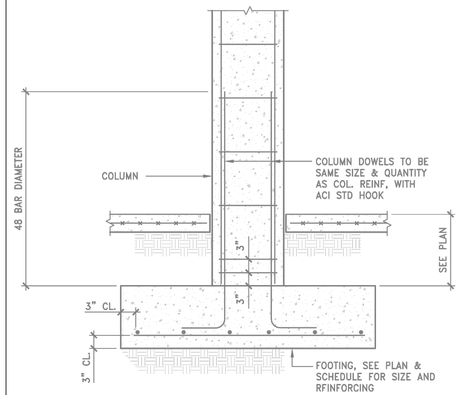
SCALE: 1½"=1'-0"



A TIE BEAM REINFORCING DETAIL

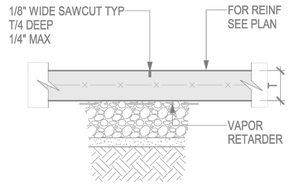


E STRUCTURAL ISOMETRIC



C CONCRETE COLUMN SECTION

SCALE: ¼"=1'-0"



D CONTROL JOINT SECTION

SCALE: 1½"=1'-0"

Mausoleum Structural Details

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Documentation

Plan For: DELRAY BEACH MAUSOLEUM

Location: 901 SW 10 ST DELRAY BEACH, FL 33446

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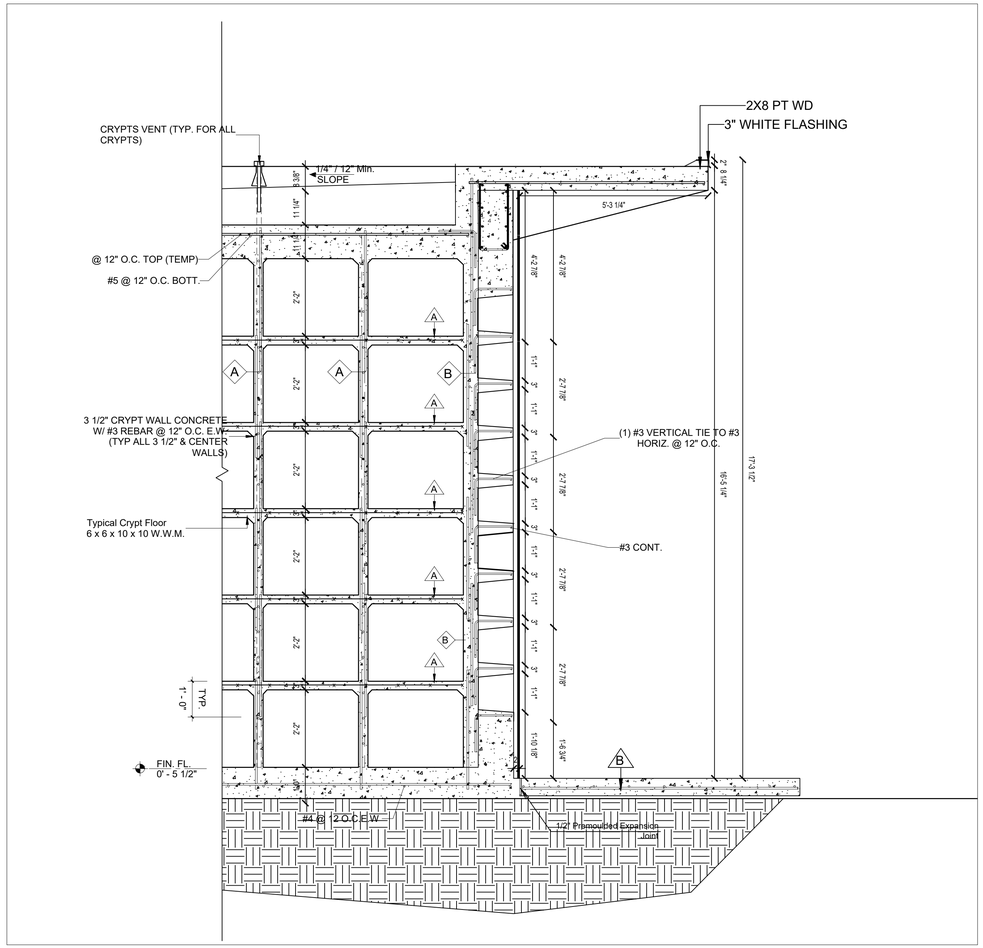


B S-501 **STRUCTURAL SECTION B**
1/2" = 1'-0"

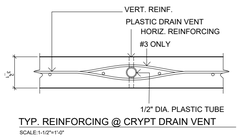
TYPICAL @ WALL CORNER SINGLE LAYER REINFORCING

TYPICAL @ WALL INTERSECTION SINGLE LAYER REINFORCING

TYPICAL @ WALL CORNER DOUBLE LAYER REINFORCING

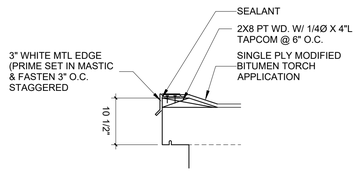
TYPICAL @ WALL INTERSECTION DOUBLE LAYER REINFORCING

3 **Typical Wall Reinforcing1**
1/2" = 1'-0"



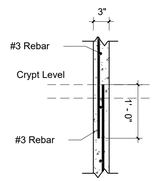
TYP. REINFORCING @ CRYPT DRAIN VENT
SCALE:1-1/2"=1'-0"

3 **Typ. Reinforcing @ Crypt Drain Vent**
1 1/2" = 1'-0"



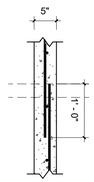
ROOF NOTE:
DIFFERENCE IN LEVEL BETWEEN ROOF DRAIN & EDGE OF ROOF FOR FREE EVACUATION OF WATER IS 6" MAX. EXCESS OF WATER OVER PERMITTED 5" HAS BEEN CONSIDERED IN THE DESIGN OF THE ROOF STRUCTURE

2 S-501 **Metal Edge Flashing.**
3/4" = 1'-0"



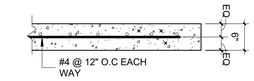
Concrete Wall With #3 @ 12" O.C. E.W. One Layer

A **Wall Type 3"**

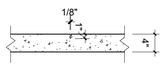


Concrete Wall With #4 @ 12" O.C. E.W. One Layer

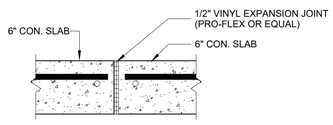
B **Wall Type 5"**



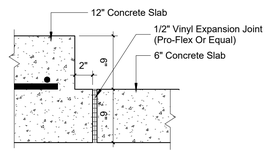
3 **SIDEWALL DETAIL**
3/4" = 1'-0"



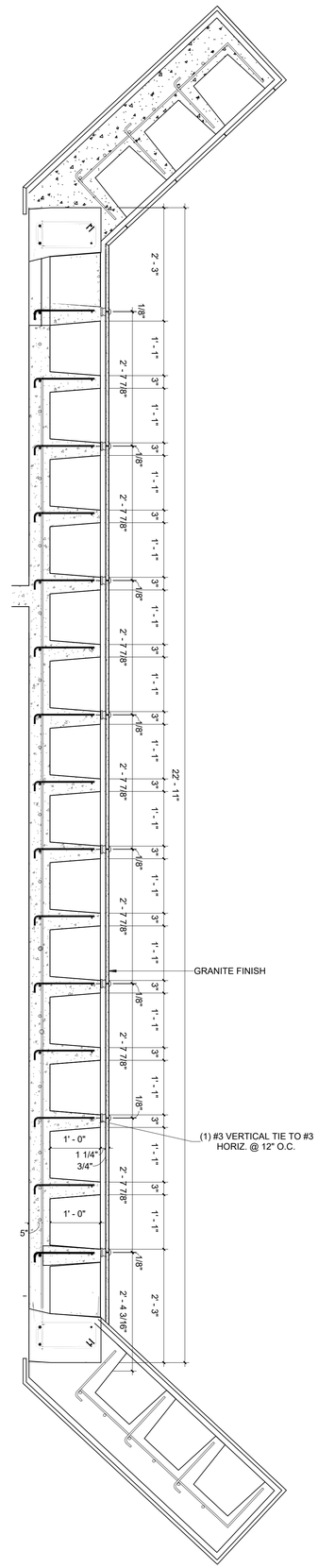
3 **CJ Detail1**
3/4" = 1'-0"



3 **Expansion Joint**
1 1/2" = 1'-0"



4 S-501 **Expansion Joint Detail**
1 1/2" = 1'-0"



Mausoleum Structural Details

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Documentation

Plan For: DELRAY BEACH MAUSOLEUM
Location: 901 SW 10 ST DELRAY BEACH, FL 33446

SPALDING + OLSON DESIGN GROUP

S-501

FILE	DATE
XXX	08-20-24
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EJO	JDO

ELECTRICAL NOTES

1. THE CONTRACT DOCUMENTS CONSIST OF DRAWINGS, SPECIFICATIONS AND DESIGN INFORMATION PREPARED BY MULTIPLE DISCIPLINES AND MUST BE USED AS A WHOLE AND IN COORDINATION WITH EACH OTHER. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY APPARENT DISCREPANCIES OR OMISSION OF INFORMATION NOT SHOWN ON THE ELECTRICAL DRAWINGS. SHOP DRAWINGS SHALL BE PROVIDED WHERE NECESSARY FOR COORDINATION. THE CONTRACTOR IS RESPONSIBLE FOR CORRECTING ERRORS RESULTING FROM LACK OF COORDINATION OF DOCUMENTS.

2. REFER TO THE ARCHITECTURAL DOCUMENTS FOR ALL APPLICABLE CODES. THE WORK SHALL BE IN ACCORDANCE WITH THE 2023 NATIONAL ELECTRICAL CODE (NEC), THE 2023 FLORIDA BUILDING CODE, 8TH EDITITION, NFPA-101 2009 FLORIDA SPECIFIC EDITION, FAC, AND ANY OTHER LOCAL JURISDICTIONAL REQUIREMENTS. IN ADDITION, ANY BASE BUILDING OR TENANT GENERAL CONDITIONS SHALL GOVERN ACCEPTABLE MATERIALS AND WORK.

3. THE CONTRACTOR SHALL BRING ANY CONFLICTS OR DISCREPANCIES TO THE ATTENTION OF THE ENGINEER IN WRITING PRIOR TO PROCEEDING WITH WORK.

4. THE CONTRACTOR SHALL FIELD VISIT THE SITE PRIOR TO BID TO FAMILIARIZE HIMSELF WITH THE SCOPE OF WORK.

5. ALL WORK SHALL BE DONE IN A FIRST CLASS WORKMANLIKE MANNER BY A LICENSED ELECTRICAL CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING A SAFE, CLEANLY, AND UNDISRUPTIVE JOB SITE THAT DOES NOT IMPEDE EGRESS PATHS OR OTHER TENANTS. DISRUPTIONS TO POWER AFFECTING OTHER TENANTS OR AREAS OUTSIDE THE SCOPE OF WORK SHALL BE COORDINATED WITH THE OWNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING OF HIS WORK. WHEN THE WORK IS COMPLETE, ALL ELECTRICAL DEVICES SHALL BE VACUUMED CLEAN. THE FINAL PRODUCT SHALL BE A FULLY FUNCTIONAL SYSTEM MEETING THE INTENT OF THE DRAWINGS/DOCUMENTS. WORKMANSHIP AND ALL MATERIALS AND EQUIPMENT SHALL BE GUARANTEED FOR A MINIMUM OF ONE YEAR IN WRITING COMMENCING UPON ACCEPTANCE OF INSTALLATION BY OWNER.

6. WITHIN 30 DAYS AFTER THE DATE OF THE SYSTEM ACCEPTANCE, RECORD DRAWINGS OF THE ACTUAL INSTALLATION SHALL BE PROVIDED TO THE BUILDING OWNER, INCLUDING A SINGLE-LINE DIAGRAM OF THE BUILDING ELECTRICAL DISTRIBUTION SYSTEM AND FLOOR PLANS INDICATING LOCATION AND AREA SERVED FOR ALL DISTRIBUTION. ADDITIONALLY, AN OPERATING MANUAL AND MAINTENANCE MANUAL SHALL BE PROVIDED TO THE BUILDING OWNER INCLUDING THE FOLLOWING: SUBMITTAL DATA STATING EQUIPMENT RATING AND SELECTED OPTIONS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE. OPERATION MANUALS AND MAINTENANCE MANUALS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE INCLUDING CLEARLY IDENTIFIED ROUTINE MAINTENANCE ACTIONS, AND NAMES AND ADDRESSES OF AT LEAST ONE QUALIFIED SERVICE AGENCY.

7. UNLESS PROVIDED WITH DIMENSIONS OR NOTED OTHERWISE, ELECTRICAL PLANS ARE STRICTLY DIAGRAMMATIC ONLY. REFER TO THE ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS, MOUNTING HEIGHTS, ETC. EFFORT HAS BEEN MADE TO PROPERLY ACCOUNT FOR ALL SPACE REQUIREMENTS, CLEARANCES, ETC. BUT SITE CONDITIONS AND PRODUCTS SELECTED MAY VARY AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN PROPER ARRANGEMENTS AND CLEARANCES. DRAWINGS SHALL NOT BE SCALED.

8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS, PAYING ALL ASSOCIATED FEES, AND DOCUMENTING AND FILING ALL PAPERWORK ASSOCIATED WITH THIS SCOPE OF WORK. WHEN THE WORK IS COMPLETE, THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED CERTIFICATES OF INSPECTION.

9. THE CONTRACTOR IS EXPECTED TO HAVE A FULL FUNCTIONAL KNOWLEDGE OF ELECTRICAL SYSTEMS AND WHETHER INDICATED ON THE DRAWINGS OR NOT SHALL PROVIDE THE CORRECT NUMBER OF WIRES, AT NO ADDITIONAL CHARGE, TO FACILITATE PROPER OPERATION OF ALL EQUIPMENT. QUANTITY OF WIRES WILL ONLY BE INDICATED WHERE NECESSARY FOR CLARIFICATION.

10. THE INSTALLATION SHALL BE IN COMPLIANCE WITH THE AMERICAN WITH DISABILITIES ACT (ADA), UNLESS INSTALLED FOR SPECIFIC USES EXEMPT FROM ADA OR IN AREAS NOT NORMALLY ACCESSED BY BUILDING OCCUPANTS.

11. THE ELECTRICAL CONTRACTOR SHALL REFER TO THE MECHANICAL AND PLUMBING DRAWINGS FOR EXACT LOCATIONS OF EQUIPMENT. PRIOR TO ORDERING ELECTRICAL EQUIPMENT SERVING MECHANICAL & PLUMBING EQUIPMENT, THE ELECTRICAL CONTRACTOR SHALL CONFIRM THE EQUIPMENT BEING ORDERED BY THE HVAC OR PLUMBING CONTRACTORS AND PROVIDE WIRING, CONDUIT, AND OVERCURRENT PROTECTION MEETING THE REQUIREMENTS AT NO ADDITIONAL COST. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR REVIEWING AND COORDINATING WITH THE HVAC CONTRACTOR FOR PROVIDING ANY NECESSARY LINE AND LOW VOLTAGE WIRING. FINAL TERMINATION TO BE MADE BY THE HVAC CONTRACTOR. ALL BREAKERS SUPPLYING HVAC LOADS SHALL BE HACR TYPE.

12. ALL MATERIALS AND EQUIPMENT FURNISHED SHALL BE NEW (UNLESS NOTED OTHERWISE) AND BEAR THE U.L. LISTING FOR THEIR INTENDED USE. MATCH BUILDING STANDARDS FOR MANUFACTURER AND TYPE OF EQUIPMENT FOR LIGHTS, EXIT SIGNS, FIRE ALARM DEVICES, WIRING DEVICES, AND ELECTRICAL DISTRIBUTION EQUIPMENT. WHERE NO BUILDING STANDARD EXISTS FOR ELECTRICAL EQUIPMENT, EQUIPMENT SHALL BE MANUFACTURED BY G.E., SQUARE-D, EATON CUTLER-HAMMER OR SIEMENS. INSTALL A PLASTIC-LAMINATE SIGN ON EACH NEW UNIT OF ELECTRICAL EQUIPMENT WITH 1/2" ENGRAVED LETTERING FOR IDENTIFICATION. IDENTIFICATION SHALL MATCH CONTRACT DOCUMENTS AND/OR INDICATE SOURCE FED (FOR DISCONNECTS, ETC.).

13. THE FAULT CURRENT RATING OF ALL EQUIPMENT ADDED TO THE ELECTRICAL DISTRIBUTION SHALL MEET THE AVAILABLE FAULT CURRENT. EQUIPMENT ADDED TO THE EMERGENCY SYSTEM SHALL BE SELECTIVELY COORDINATED. EQUIPMENT SHALL BE FULLY RATED UNLESS NOTED OTHERWISE.

14. THE CONTRACTOR SHALL GIVE PERMISSION FOR THE AHJ, ENGINEER, ARCHITECT, INSPECTOR, ETC. TO PERFORM TESTS OF THE ELECTRICAL SYSTEM AS REQUIRED.

15. SWITCH OUTLETS SHALL NOT BE OBSTRUCTED BY DOORSWINGS AND OCCUPANCY SENSORS SHALL HAVE FULL VIEW OF THE INTENDED SPACE.

16. SWITCH AND RECEPTACLES INDICATED IN THE SAME LOCATION SHALL BE MOUNTED UNDER A COMMON COVERPLATE UNLESS OTHERWISE NOTED.

17. EVEN IF THE PLANS INDICATE, OUTLETS SHALL NOT BE INSTALLED PRECISELY BACK TO BACK ON COMMON WALLS. REFER TO THE ARCHITECTURAL DRAWINGS FOR EXACT MOUNTING METHODS AND LOCATIONS.

18. CONDUCTORS SHALL BE LOOPED AROUND SCREW POSTS SO THAT ROTATION OF THE SCREW TENDS TO FURTHER WRAP THE CONNECTION. SCREW TERMINALS SHALL BE WRAPPED IN ELECTRICAL TAPE. AT LEAST 6" OF FREE CONDUCTOR SHALL BE LEFT AT EACH J-BOX, OUTLET AND SWITCH BACK-BOX, ETC FOR FUTURE SPLICING.

19. THE CONTRACTOR SHALL MAINTAIN THE FIRE RATING OF ALL FIRE-RATED PARTITIONS. IF A DEVICE WILL VOID THE FIRE RATING OF A WALL, IT SHALL BE INSTALLED IN AN ALTERNATE LOCATION PER THE ARCHITECT OR ENGINEER'S DIRECTION. ALL VOIDS AROUND CONDUITS AND/OR CORE DRILLS PENETRATING FIRE RATED PARTITIONS SHALL BE FILLED WITH FIRE-SAFING MATERIAL OR UL APPROVED FIRE RATING DEVICE. THE FIRE RATING OF A PARTITION SHALL NEVER BE COMPROMISED.

20. THE CONTRACTOR SHALL MAINTAIN THE INSULATION RATING AND VAPOR BARRIERS ON ALL PERIMETER WALLS. IF A DEVICE WILL DAMAGE OR COMPROMISE THE VAPOR BARRIER OR INSULATION, IT SHALL BE INSTALLED IN AN ALTERNATE LOCATION PER THE ARCHITECT OR ENGINEER'S DIRECTION.

21. ALL EQUIPMENT REQUIRING ACCESS SUCH AS J-BOXES, PULL BOXES, TRANSFORMERS, DRIVERS, ETC. SHALL BE INSTALLED IN ACCESSIBLE LOCATIONS. EXISTING ELECTRICAL DEVICES WHICH ARE LOCATED BEHIND INACCESSIBLE LOCATIONS DUE TO THE RENOVATION SHALL BE REROUTED AND MADE ACCESSIBLE.

22. CONDUITS AND/OR MATERIALS LOCATED IN ENVIRONMENTAL AIR PLENUMS SHALL BE PROPERLY LISTED FOR THE APPLICATION. INTERIOR CONCEALED RACEWAYS MAY BE AC OR MC CABLE IF ALLOWED BY THE AHJ. EXPOSED RACEWAYS, INCLUDING RACEWAYS EXPOSED IN THE BACK OF HOUSE SHALL BE GALVANIZED STEEL OR ALUMINUM EMT. MOTOR CONNECTIONS SHALL BE FLEXIBLE METAL CONDUIT FOR INTERIOR APPLICATIONS AND LIQUID TIGHT FLEX FOR EXTERIOR APPLICATIONS. ALL OTHER EXTERIOR CONDUITS SHALL BE GALVANIZED STEEL, ALUMINUM EMT OR RIGID STEEL IF EXPOSED TO STRIKING. EXTERIOR CONDUITS SHALL UTILIZE COMPRESSION CONNECTORS. AC/MC CABLE SHALL NOT TERMINATE AT PANELBOARDS. A GUTTER OUTSIDE THE ELECTRICAL CLOSET SHALL BE PROVIDED WITH CONDUIT FROM THE GUTTER TO THE PANELBOARD.

23. CABLE AND CONDUIT ROUTING SHALL BE DONE IN A NEAT AND ORDERLY FASHION. LINES SHALL BE RUN PARALLEL TO ALL BUILDING FEATURES, AND SHALL BE GROUPED TOGETHER TO CREATE AN AESTHETICALLY PLEASING AND EASY TO FOLLOW ROUTE. CABLES SHALL BE PERMITTED TO BE BUNDLED BUT SHALL NOT EXCEED TEN IN QUANTITY. ROUTING SHALL BE COORDINATED WITH OTHER TRADES TO AVOID CONFLICT.

24. CONDUITS SHALL BE RIGIDLY SUPPORTED TO THE BUILDING STRUCTURE. AC AND MC CABLES SHALL BE SUPPORTED WITHIN 12" OF EVERY BOX, FITTING, ETC. AND SUPPORT SPACINGS SHALL NOT EXCEED 6' INTERVALS. RIGID CONDUIT SUPPORT SPACINGS SHALL NOT EXCEED 10'-0" FOR VERTICAL RUNS AND 8'-0" FOR HORIZONTAL RUNS, HOWEVER ALL SUPPORT SPACINGS FOR ALL CONDUIT TYPES SHALL BE IN ACCORDANCE WITH THE NEC REGARDLESS OF WHAT IS STATED HERE. COUPLINGS AND FITTINGS SHALL BE STEEL WITH COMPRESSION OR SET STEEL SCREW CONNECTIONS. THERE SHALL NOT BE MORE THAN THE EQUIVALENT OF FOUR QUARTER BENDS (360 DEGREES TOTAL) BETWEEN PULL POINTS FOR POWER (120V OR HIGHER) CIRCUITS AND NOT MORE THAN THE EQUIVALENT OF TWO QUARTER BENDS (180 DEGREES TOTAL) BETWEEN PULL POINTS FOR LOW VOLTAGE (TELEPHONE, DATA, ETC) CIRCUITS. LOW VOLTAGE CONDUIT RUNS SHALL ALSO NOT EXCEED 100' BETWEEN PULL POINTS. ALL CONDUITS SHALL BE TERMINATED WITH INSULATED THROAT CONNECTORS FOR CONDUITS 1" AND SMALLER, AND WITH INSULATED BUSHINGS AND LOCKNUTS FOR CONDUITS OVER 1". EMPTY CONDUIT RUNS EXCEEDING 10' SHALL BE PROVIDED WITH PULL WIRES SECURELY FASTENED AT BOTH ENDS. EXPANSION FITTINGS SHALL BE PROVIDED AT ALL BUILDING EXPANSION JOINTS OR WHERE NEEDED TO ALLOW FOR THERMAL EXPANSION.

25. CONDUIT SIZES INDICATED IN PANEL SCHEDULES AND ON THE SINGLE LINE ARE BASED ON TYPE THHN IN EMT. AS OTHER TYPES OF CONDUIT AND CONDUCTORS ARE PERMISSIBLE IN THIS PROJECT, THE CONTRACTOR SHALL ADJUST THE DIMENSION OF THE CONDUIT TO COMPLY WITH CHAPTER 9, TABLE 1 IN THE NEC. ADJUSTMENTS TO THE CONDUIT SIZE SHALL BE PART OF THE BID AND SHALL BE AT NO ADDITIONAL EXPENSE TO THE OWNER.

26. PROVIDE A 3/4" CONDUIT WITH PULLSTRING FOR ALL TELEPHONE AND A 1" CONDUIT WITH PULLSTRING FOR ALL DATA OUTLETS LOCATED IN INSULATED AND LOW HEIGHT WALLS, TERMINATED ABOVE THE ACCESSIBLE CEILING. GROMMETS SHALL BE PROVIDED AT THE END OF THE CONDUIT AT THE CEILING SPACE. OUTLETS LOCATED IN NON-INSULATED WALLS WILL REQUIRE PULLSTRING ONLY.

27. WIRE SIZES INDICATED ARE BASED UPON DIRECT ORTHOGONAL PATHS TO THE PANELBOARD. FEEDERS ARE SIZED FOR A MAXIMUM OF 2% VOLTAGE DROP, AND BRANCH CIRCUITS ARE DESIGNED FOR A MAXIMUM OF 3% VOLTAGE DROP. IF FIELD CONDITIONS DO NOT ALLOW THESE PATHS OR IF THE CONTRACTOR RUNS ADDITIONAL LENGTHS, THEY SHALL BE RESPONSIBLE FOR INCREASING WIRE SIZE TO ACCOUNT FOR VOLTAGE DROP AT NO ADDITIONAL COST. 20 AMP, 120 VOLT HOMERUNS EXCEEDING 57' SHALL BE A MINIMUM OF #10 AWG. WIRING SMALLER THAN #12 AWG SHALL NOT BE USED FOR ANY INSTALLATIONS.

28. THE CONTRACTOR SHALL CIRCUIT PANELBOARDS EXACTLY AS INDICATED IN THE PANEL SCHEDULES. IF ANY DEVIATIONS ARE NECESSARY, THE ENGINEER SHALL BE NOTIFIED. TYPED DIRECTORY CARDS SHALL BE PROVIDED AT EACH PANELBOARD INDICATING LOAD SERVED AND FINAL ROOM NUMBERS PER THE NEC. WHEN EXISTING DIRECTORIES ARE REPLACED FOR RENOVATION WORK, EXISTING LOAD INFORMATION SHALL BE DIRECTLY TRANSFERRED TO THE NEW DIRECTORY CARDS.

ELECTRICAL NOTES

29. NEUTRAL CONDUCTORS SHALL ONLY BE SHARED WHEN INDICATED ON THE DRAWINGS. WHERE NEUTRALS ARE INDICATED TO BE SHARED, THE NEUTRAL SHALL BE A MINIMUM OF #10 AWG.

30. THE CONTRACTOR SHALL REMOVE ALL UNUSED AND ABANDONED WIRING AND CABLING FROM THE CEILING PLENUM THAT ISN'T LABELED FOR FUTURE USE, AS REQUIRED BY THE NEC. THIS SHALL INCLUDE BUT IS NOT LIMITED TO FIRE ALARM, POWER, SECURITY, CONTROLS, DATA, TELEPHONE, A/V, ETC.

31. WHEN A RETURN AIR PLENUM IS UTILIZED, ALL CABLING AND CONDUIT SHALL BE PLENUM RATED OR IN PLENUM RATED CONDUIT. THIS INCLUDES TELEPHONE, DATA, CONTROL CABLES, ETC. AND RESTRICTS THE USE OF PVC.

32. ALL BRANCH CIRCUIT CONDUCTORS AND FEEDER CIRCUITS 100A OR SMALLER SHALL BE COPPER. FEEDER CIRCUITS SERVING LOADS LARGER THAN 100A MAY BE EITHER COPPER OR ALUMINUM, HOWEVER THE DESIGN IS BASED AROUND COPPER AND THE CONTRACTOR WILL BE RESPONSIBLE FOR ACCOUNTING FOR INCREASED WIRE SIZE, CONDUIT SIZE, AND SPACE TAKEN BY THE LARGER CONDUIT IF ALUMINUM IS USED. HOWEVER, BRANCH CIRCUITS FEEDING MOTORS SHALL ALWAYS BE COPPER REGARDLESS. CONDUCTORS #10 AWG AND SMALLER SHALL BE SOLID, AND CONDUCTORS #8 AWG AND LARGER SHALL BE STRANDED. CONDUCTORS SHALL BE CODE TYPE THW, THHN, THWN, OR XHHW UNLESS OTHERWISE REQUIRED BY THE NEC. CONDUCTORS SHALL BE MARKED WITH INSULATION CODE, VOLTAGE RATING, AWG SIZE, AND MANUFACTURER AND INCLUDE A CONTINUOUS COLOR CODING FROM PANEL TO LOAD SERVED. WHERE CONTINUOUS MARKINGS ARE NOT AVAILABLE, USE COLOR CODED TAPE AT EACH TERMINATION. #8 AWG AND SMALLER CONDUCTORS SHALL BE SPLICED WITH SPRING CONNECTORS. #6 AWG AND LARGER SHALL BE SPLICED WITH BARREL CONNECTORS REQUIRING COMPRESSION ON EACH END.

33. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONFIRMING BUILDING STANDARDS PRIOR TO PURCHASE. THE CONTRACTOR SHALL PROVIDE THE PROPER FIXTURE TYPE FOR THE CEILING OR WALL TYPE WHICH THE FIXTURE IS TO BE INSTALLED IN INCLUDING TRIM, MOUNTING ACCESSORIES ETC. REGARDLESS OF THE MODEL NUMBERS IN THE LIGHT FIXTURE SCHEDULE, THE CORRECT MOUNTING TYPE SHALL BE PROVIDED. THE CONTRACTOR SHALL REFER TO INTERIOR DESIGNER, ARCHITECTURAL, LANDSCAPE, OR OTHER CONSULTANT PLANS FOR ADDITIONAL INFORMATION AND REQUIREMENTS. WHERE THERE IS A DISCREPANCY BETWEEN ELECTRICAL PLANS AND OTHER CONSULTANT PLANS, THE OTHER CONSULTANT PLANS SHALL TAKE PRIORITY EXCEPT FOR VOLTAGE AND WATTAGE OF FIXTURES. FIXTURE TYPES IN THE LIGHT FIXTURE SCHEDULE ARE TO ESTABLISH A TYPE, NOT A METHOD OF MOUNTING. FLUORESCENT FIXTURES THAT UTILIZE DOUBLE-ENDED LAMPS AND CONTAIN BALLASTS THAT CAN BE SERVICED IN PLACE SHALL HAVE A DISCONNECTING MEANS, UNLESS THE FIXTURE IS USED FOR EMERGENCY LIGHTING. ALL BALLASTS SHALL BE ELECTRONIC, LESS THAN 20% THD, CREST FACTOR OF 1.7 FOR FLUORESCENTS AND 1.8 FOR METAL HALIDES, HIGH POWER FACTOR, AND RATED FOR THE TYPE OF LAMP IT OPERATES. MANUFACTURERS SHALL BE GE, ADVANCE, MAGNETEK, MOTOROLA, LUTRON, OR OTHER APPROVED EQUAL. LIGHT FIXTURES, BALLASTS, TRANSFORMERS, DRIVERS, ETC LOCATED IN A WET OR DAMP LOCATION SHALL BE LISTED FOR SAID USE. LIGHT FIXTURES INSTALLED IN AREAS HAVING EXPOSED FOOD OR FOOD PREPARATION AREAS OR KITCHENS SHALL BE PROPERLY LENSED AND HAVE SHATTER PROOF LAMPS.

34. THE EQUIPMENT GROUNDING SYSTEM SHALL CONSIST OF AN ELECTRICALLY CONTINUOUS METALLIC CONDUIT SYSTEM TOGETHER WITH INSULATED EQUIPMENT GROUNDING CONDUCTORS. EVERY ITEM SERVED BY THE ELECTRICAL SYSTEM SHALL BE PROPERLY GROUNDED IN ACCORDANCE WITH NEC ARTICLE 250. THIS SHALL INCLUDE RACEWAYS, JUNCTION/OUTLET BOXES, MACHINE FRAMES, ETC. ALL BRANCH CIRCUITS AND FEEDERS SHALL HAVE A GREEN INSULATED EQUIPMENT GROUNDING CONDUCTOR OR GROUND ELECTRODE SIZED IN ACCORDANCE WITH THE NEC. PROVIDE BONDING JUMPERS FOR ALL NON-CURRENT CARRYING CONDUCTORS OF DIFFERENT SYSTEMS TO ENSURE NO VOLTAGE POTENTIAL. METAL GAS PIPING SHALL ONLY BE GROUNDED AT EQUIPMENT HOUSING BOTH ELECTRICAL CIRCUITS AND UTILIZING GAS VIA THE EQUIPMENT GROUND ROUTED WITH THE CIRCUIT. ALL GROUND WIRES SHALL BE COPPER.

35. SUBMITTALS SHALL BE SUBMITTED ELECTRONICALLY, IN PDF FORMAT. THE CONTRACTOR SHALL ALLOW FOR A TOTAL OF 10 BUSINESS DAYS FOR REVIEW BY THE ENGINEER. SUBMITTALS SHALL INCLUDE PANELBOARDS, TRANSFORMERS, DISCONNECTS, WIRING DEVICES, UPS'S, LIGHT FIXTURES, TVSS, AND FIRE ALARM SYSTEM. SUBMITTALS SHALL ONLY INCLUDE DATA RELEVANT TO THIS PROJECT; DATA SHEETS INDICATING SEVERAL PRODUCTS SHALL HAVE THE RELEVANT PRODUCTS HIGH-LITED OR CLEARLY IDENTIFIED. SIMILAR EQUIPMENT SHALL BE SUBMITTED IN ONE COMPLETE SUBMITTAL PACKAGE (I.E. ALL PANELBOARDS, ALL LIGHTING FIXTURES, ETC.).

36. PROVIDE PAD LOCKING HARDWARE ON CIRCUIT BREAKERS FOR EQUIPMENT WHICH IS HARDWIRED WITHOUT A LOCAL DISCONNECTING MEANS THAT ARE NOT WITHIN SIGHT OF THE PANELBOARD.

37. PROVIDE RECEPTACLES SIMILAR TO PASS & SEYMOUR #26352 SERIES AND LIGHT SWITCHES SIMILAR TO PASS & SEYMOUR #2621 SERIES. COVER PLATES SHALL BE AS SPECIFIED BY THE ARCHITECT OR DECORA CONFIRM ALL DEVICE COLORS WITH THE OWNER.

38. DUPLEX OUTLETS SHALL BE NEMA 5-20R WHEN THEY ARE THE ONLY LOAD ON A CIRCUIT.

39. MAGNETIC MOTOR STARTERS SHALL MATCH THE CHARACTERISTICS OF THE MOTOR IT CONTROLS AND BE CAPABLE OF CYCLING AT THE FREQUENCY DETERMINED BY THE CONTROL DEVICES. MOTOR STARTERS SHALL BE PROVIDED FOR ALL MOTORS NOT HAVING INTEGRALLY MOUNTED STARTERS. ALL INTERNAL WIRING SHALL BE COPPER. THE HORSEPOWER RATING OF EACH STARTER SHALL NOT BE LESS THAN THE MOTOR IT CONTROLS. ENCLOSURES SHALL BE NEMA 1 RATED (UNLESS NOTED OTHERWISE) AND CAPABLE OF BEING PADLOCKED IN THE OFF POSITION. COILS SHALL BE RATED AT 120V AC CONTROL VOLTAGE. A CONTROL POWER TRANSFORMER WITH PRIMARY FUSES AND ONE FUSE ON THE SECONDARY SIDE. COORDINATED OVERLOAD PROTECTION SHALL BE PROVIDED IN ALL THREE PHASES FOR THREE PHASES APPLICATIONS, AND ALL SINGLE PHASE CONTROLLERS SHALL HAVE OVERLOAD PROTECTION IN UNGROUNDED PHASES. EACH CONTROLLER SHALL HAVE A PILOT LIGHT AND TRIP FREE SWITCH. EACH CONTROLLER SHALL HAVE TWO EXTRA INTERLOCK CONTACTS WHICH CAN BE EITHER NORMALLY OPEN OR NORMALLY CLOSED. PROVISIONS FOR REMOTE CONTROL FUNCTION OPERATED BY THE ATC OR FIRE ALARM CONTRACTOR SHALL BE INCLUDED. PROVIDE FUSED SWITCH COMBINATION STARTERS WHEN REQUIRED BY MANUFACTURER OR LOCAL INSPECTING AUTHORITY.

40. PANELBOARDS SHALL HAVE COPPER FULL SIZE PHASE BUSSES, NEUTRAL BUSSES, AND BOLTED ON COPPER GROUNDING BUS WITH MAIN LUGS. BUS BAR CONNECTIONS SHALL BE COLUMN CONSECUTIVE PHASE-SEQUENCE TYPE. BUS BARS SHALL BE DRILLED AND EQUIPPED FOR BOLT-ON MOLDED CASE CIRCUIT BREAKERS. SHORT CIRCUIT BRACING AND BREAKER INTERRUPTING CAPACITY SHALL BE AS INDICATED ON THE PANEL SCHEDULES, BUT SHALL NOT BE BELOW 10,000 A.I.C. FOR 120/240V PANELS. PANEL CONSTRUCTION SHALL BE HINGED DOOR IN DOOR COVERS WITH MASTER-KEYED DOOR LOCKS, GALVANIZED SHEET STEEL CABINETS WITH MULTIPLE KNOCKOUTS, WIRING GUTTERS, AND SPACE FOR A TYPED CIRCUIT DIRECTORY. MAIN BREAKERS OR MAIN LUGS ONLY SHALL BE PROVIDED AS INDICATED IN THE PANEL SCHEDULES. PANELS SHALL BE PROVIDED WITH FEED THRU LUGS UNLESS OTHERWISE NOTED.

41. MOLDED CASE CIRCUIT BREAKERS SHALL BE THERMAL MAGNETIC AND AMBIENT COMPENSATED INVERSE TIME-DELAY OVERLOAD AND INSTANTANEOUS SHORT CIRCUIT PROTECTED, FULL SIZE, BOLT-ON, WITH A QUICK-MAKE, QUICK-BREAK OVER-CENTER SWITCHING MECHANISM THAT IS MECHANICALLY TRIP-FREE FROM THE HANDLE SUCH THAT THE CONTACTS CAN NOT BE CLOSED AGAINST SHORT CIRCUITS. CONTACTS SHALL BE NON-WELDING SILVER ALLOY. TRIPPING DUE TO OVERLOAD OR SHORT CIRCUIT SHALL BE INDICATED BY THE BREAKER RESTING AT A MID POINT BETWEEN THE ON AND OFF POSITIONS. AMPERE AND FAULT CURRENT RATINGS SHALL BE CLEARLY VISIBLE. BREAKERS SHALL BE LISTED FOR USE WITH 75°C AND 90°C CONDUCTORS. MULTI-POLE BREAKERS SHALL BE OF THE COMMON TRIP TYPE HAVING A SINGLE HANDLE. WHERE NEUTRALS ARE SHARED AMONG CIRCUITS, THE CONTRACTOR SHALL PROVIDE MULTI-POLE BREAKERS TO SIMULTANEOUSLY DISCONNECT ALL CIRCUITS IN THE EVENT OF ONE TRIPPING; IN THIS CASE SINGLE POLE BREAKERS MAY BE CONNECTED BY A COMMON TRIP HANDLE.

42. ALL FUSES SHALL BE DUAL-ELEMENT LOW PEAK CLASS RK1 AS MANUFACTURED BY BUSSMAN OR LITTLE FUSE. FUSE VOLTAGE RATING SHALL BE 300 VOLT FOR 120/240 VOLT SYSTEM.

43. DISCONNECT SWITCHES SHALL BE HEAVY DUTY TYPE, HIGH I2T RATED, APPROVED FOR SERVICE ENTRANCE APPLICATIONS. DISCONNECT SWITCHES SPECIFIED SHALL BE RATED AT 240 VOLT, ALL DISCONNECTS SHALL BE QUICK-MAKE, QUICK-BREAK TYPE AND HAVE PROVISIONS FOR ACCOMMODATING R TYPE FUSES. SWITCHES IN EXTERIOR LOCATIONS SHALL BE NEMA TYPE 4X, AND INDOOR SWITCHES EXPOSED TO WET OR DAMP CONDITIONS SHALL BE NEMA TYPE 3R. SWITCHES SHALL HAVE PROVISIONS FOR PADLOCKING. SWITCHES SHALL BE PREVENTED FROM OPENING WHILE SWITCH IS ON. FUSED DISCONNECTS SHALL BE PROVIDED WHEN REQUIRED BY THE MANUFACTURER OR BY THE LOCAL INSPECTING AUTHORITY.

44. WHERE DIMMING IS INDICATED, THE CONTRACTOR SHALL PROVIDE THE PROPER DIMMING BALLAST AND DIMMER FOR THE FIXTURE SOURCE. LOW VOLTAGE CONTROL WIRING SHALL BE PROVIDED FOR FLUORESCENT FIXTURES, LED DRIVERS, AND ANY OTHER DIMMED FIXTURE THAT REQUIRES ADDITIONAL WIRING.

45. FLOOR OUTLETS SHALL BE LISTED FOR INSTALLATION IN THE INSTALLED FLOOR TYPE. THEY SHALL MEET UL REQUIREMENTS FOR SCRUB WATER, DIRT, AND DEBRIS EXCLUSION TESTS.

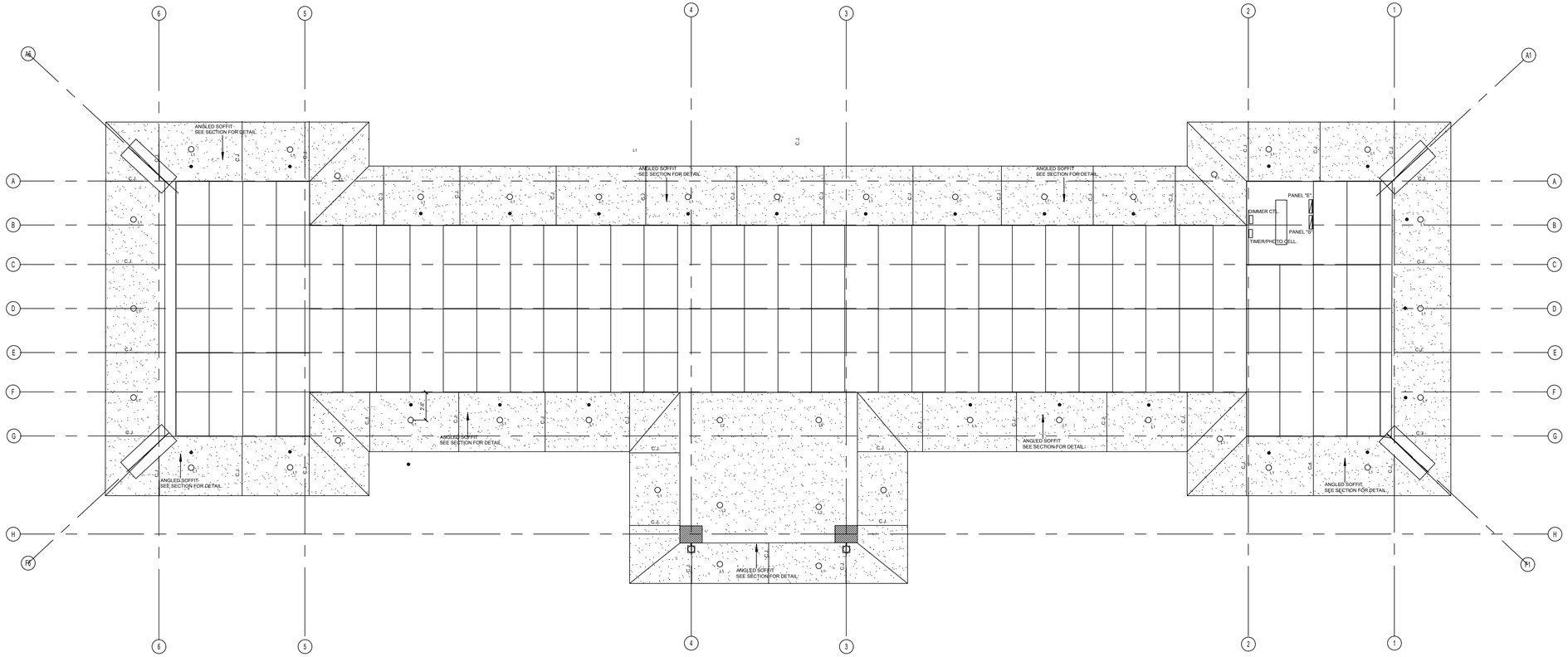
46. PROVIDE A 15A 120 VOLT CIRCUITS FOR ALL SMOKE AND COMBINATION FIRE/SMOKE DAMPERS AND ASSOCIATED SMOKE DETECTOR FOR ALL SMOKE DAMPERS AS SHOWN AND REQUIRED ON THE MECHANICAL DRAWINGS. UPON ACTIVATION, SMOKE DETECTOR SHALL SIGNAL FOR DAMPER TO CLOSE. SYSTEM SHALL BE TIED INTO THE BUILDING FIRE ALARM SYSTEM.

47. PROVIDE PHOTOELECTRIC TWIST IN TYPE SMOKE DETECTORS WITH ACCESS DOORS IN ALL FANS AND AHU'S SERVING A COMMON PLENUM OF 2000 CFM OR ABOVE. ALL SMOKE DETECTORS SHALL BE BY ONE MANUFACTURER, AND SHALL COMPLY WITH UL 268A. LOCATE THE SMOKE DETECTORS IN THE SUPPLY AIR DUCT FOR INSTALLATIONS IN COMPLIANCE WITH THE FLORIDA BUILDING CODE. THE DETECTORS SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR & INSTALLED IN THE DUCT BY THE MECHANICAL CONTRACTOR. ELECTRICAL CONNECTION SHALL BE BY ELECTRICAL CONTRACTOR. UPON SMOKE DETECTION, ALL ASSOCIATED AIR MOVING EQUIPMENT SERVING A COMMON PLENUM WILL BE SHUT DOWN. TIE FIRE ALARM DEVICES INTO EXISTING FIRE ALARM SYSTEM (IF APPLICABLE).

48. ALL 15 AND 20A RECEPTACLES LOCATED IN KITCHENS, WITHIN 6' OF SINKS, BATHROOMS, IN EXTERIOR LOCATIONS, IN AREAS EXPOSED TO WET CONDITIONS, ROOFTOPS, IN ELEVATOR SHAFTS, AND IN ELEVATOR MACHINE ROOMS SHALL BE GFI TYPE. IF A SIMPLEX RECEPTACLE IS REQUIRED, THE CIRCUIT BREAKER SHALL BE GFI TYPE. ALL BREAKERS THAT SUPPLY HEAT TRACE SHALL BE GFI.

ELECTRICAL SYMBOL LEGEND

$	SINGLE POLE, 20 AMP, SWITCH.
$3	3-WAY, 20 AMP, SWITCH.
$4	4-WAY, 20 AMP, SWITCH.
$D	DIMMER SWITCH. USE NTF-10-WH FOR FLUORESCENT FIXTURES. USE NTFTV-WH WITH PP-120H FOR LED FIXTURES. CONFIRM COLOR SELECTION WITH ARCHITECT PRIOR TO ORDERING.
$OM	SINGLE POLE, 20 AMP, SWITCH WITH OCCUPATIONAL SENSOR.
	20 AMP SIMPLEX RECEPTACLE
	20 AMP DUPLEX RECEPTACLE
	20 AMP QUADRUPLEX RECEPTACLE
GFI	20 AMP DUPLEX RECEPTACLE WITH GROUND FAULT CIRCUIT INTERRUPTER.
	WIREMOLD RFB4 20 AMP DUPLEX/QUADRUPLEX RECEPTACLE, RECESS FLOOR MOUNTED BOX.
WP	20 AMP DUPLEX RECEPTACLE, WEATHERPROOF WHILE-IN-USE.
	20 AMP DUPLEX RECEPTACLE, CEILING MOUNTED.
	WIREMOLD RC4ATCAL 20 AMP QUADRUPLEX, DATA/TELEPHONE FLOOR POKE-THRU DEVICE
	SPECIAL-PURPOSE RECEPTACLE; NEMA TYPE AS INDICATED.
J	JUNCTION BOX
	TELEPHONE OUTLET WITH 3/4" CONDUIT STUBBED OUT FROM WALL 6" ABOVE CEILING.
	DATA OUTLET WITH 1" CONDUIT STUBBED OUT FROM WALL 6" ABOVE CEILING.
	TELEPHONE/DATA OUTLET WITH 1" CONDUIT STUBBED OUT FROM WALL 6" ABOVE CEILING.
	HATCHED LIGHT FIXTURE - PROVIDED WITH EMERGENCY BATTERY BALLAST
	FUSIBLE DISCONNECT SWITCH NFSS = NON FUSED, F30SS = FUSED
	GROUNDING ELECTRODE & CONDUCTOR SYSTEM
T	TRANSFORMER
	TELEPHONE WOOD BACKBOARD
	120/208V ELECTRICAL PANELBOARD; MANDATORY CLEARANCE INDICATED WITH DASHED LINES.
	WIRE CONCEALED IN WALLS/CEILINGS. QUANTITY OF WIRES IN HOMERUN INDICATED ON PANEL SCHEDULES. GROUND WIRE IS IN ADDITION TO WIRES INDICATED. ADDITIONAL SWITCH WIRES SHALL BE DETERMINED BY E.C.
TV	TELEVISION OUTLET



LIGHTING AND POWER PLAN

SCALE : 3/16" = 1'-0"

PROPOSED EAST MAUSOLEUM "E" 60 AMP SCHEDULE						
CIRCUIT	TYPE	CKT	EQUIPTMENT	WATTS	WIRE	BREAKER
1 POLE	ARC	1	LIGHTS	750	#12	20 AMPS
1 POLE	ARC	3	GFI RECEPTACLES	750	#12	20 AMPS
		2				
		4				
			TOTAL WATTS	1,500		

CALCULATION CHART		
FIRST 10 KW AT	100%	1,500 WATTS
LOAD		1,500 WATTS / 240 VOLTS = 6.25 AMPS

PROPOSED SOUTH MAUSOLEUM "S" 60 AMP SCHEDULE						
CIRCUIT	TYPE	CKT	EQUIPTMENT	WATTS	WIRE	BREAKER
1 POLE	ARC	1	LIGHTS	750	#12	20 AMPS
1 POLE	ARC	3	GFI RECEPTACLES	750	#12	20 AMPS
		2				
		4				
			TOTAL WATTS	1,500		

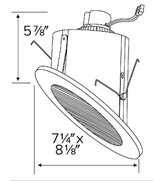
CALCULATION CHART		
FIRST 10 KW AT	100%	1,500 WATTS
LOAD		1,500 WATTS / 240 VOLTS = 6.25 AMPS

LIGHITING LEGEND

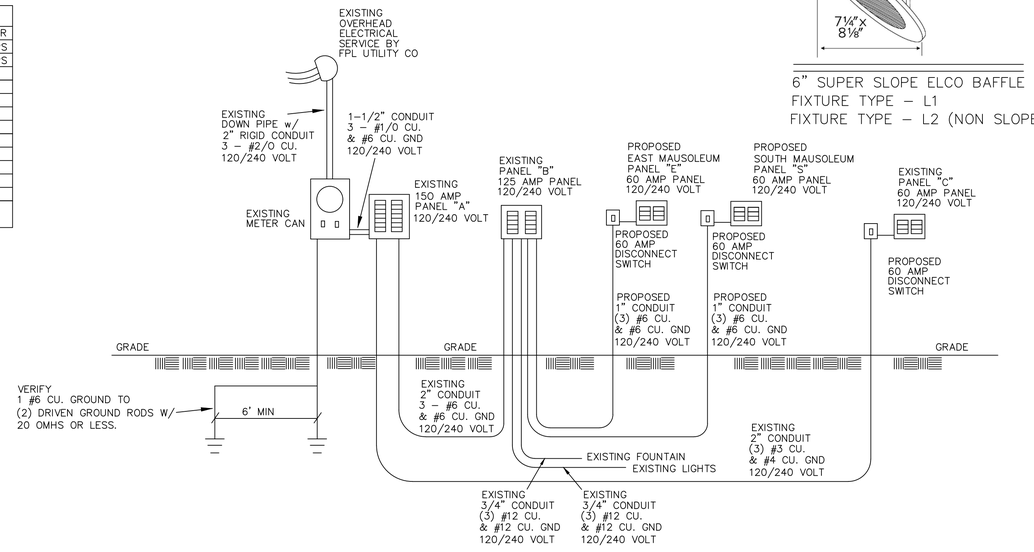
NOTE: NOT ALL LEGEND ITEMS MAY BE USED FOR THIS PROJECT

NOTE: NOT ALL LEGEND ITEMS MAY BE USED FOR THIS PROJECT

- 24"x24" LAY-IN LIGHT FIXTURE (RE: ELEC. DWGS.)
- 24"x24" LAY-IN LIGHT FIXTURE W/ EMERG. POWER SOURCE (RE: ELEC.)
- 24"x48" LAY-IN LIGHT FIXTURE RE: ELEC. DWGS.
- 24"x48" LAY-IN LIGHT FIXTURE W/ EMERG. POWER SOURCE (RE: ELEC.)
- 12'x48" SURF. MTD. FIXT. (RE: ELEC.)
- 12'x48" SURFACE MTD. FIXTURE W/ EMERG. POWER SOURCE (RE: ELEC.)
- RECESSED DOWNLIGHT (DIRECTIONAL) (RE: ELEC. DWGS.)
- RECESSED DOWNLIGHT (RE: ELEC.)
- SQUARE RECESSED DOWN LIGHT FIXT.
- RECESSED DOWNLIGHT WITH EMERG. POWER SOURCE (RE: ELEC. DWGS.)
- DECORATIVE PENDANT MTD. LIGHT (RE: ID & COORD. W/ELEC. DWGS.)
- COVE LED/ MILLWORK LIGHT (RE: ELEC. DWGS.)



6" SUPER SLOPE ELCO BAFFLE
FIXTURE TYPE – L1
FIXTURE TYPE – L2 (NON SLOPED)



EXISTING MAUSOLEUM ELECTRICAL RISER DIAGRAM

SCALE : NTS

Columbarium Electrical Plan

PHONE: 561-262-0387
Jon Olson
NCARB
AR911377

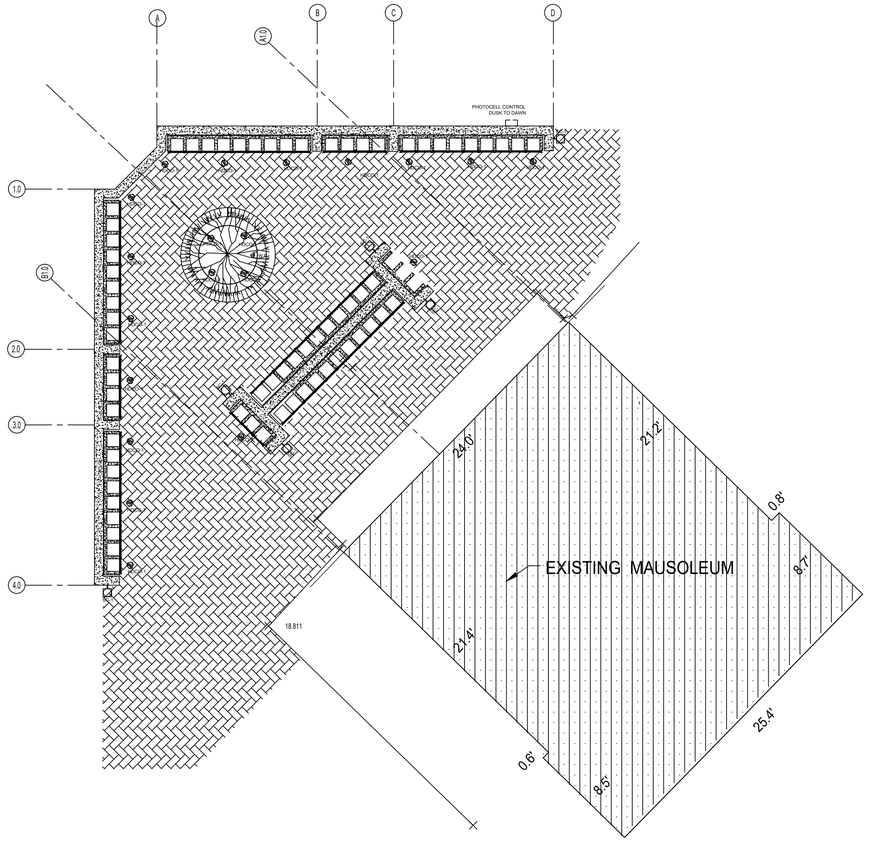
Documentation

Plan For: DELRAY BEACH MAUSOLEUM
Location: 901 SW 10 ST DELRAY BEACH, FL 33446

SPALDING + OLSON DESIGN GROUP

E-003

FILE	DATE
XXX	08-20-24
DRWN BY	CHCK BY
EJO	JDO



LIGHTING AND POWER PLAN

SCALE : 3/16" = 1'-0"

PROPOSED EAST MAUSOLEUM "E" 60 AMP SCHEDULE (COLUMBARIUM)						
CIRCUIT	TYPE	CKT	EQUIPTMENT	WATTS	WIRE	BREAKER
1 POLE	ARC	1	LIGHTS	750	#12	20 AMPS
1 POLE	ARC	3	GFI RECEPTACLES	750	#12	20 AMPS
1 POLE	ARC	2	LANDSCAPE LIGHTS (HADCO IN GROUND)	750	#12	20 AMPS
		4				
			TOTAL WATTS	1,500		

CALCULATION CHART			
FIRST 10 KW AT	100%	1,500	WATTS
LOAD		1,500 WATTS / 240 VOLTS =	6.25 AMPS

HADCO INGROUND LIGHTING

LIGHITING LEGEND

NOTE: NOT ALL LEGEND ITEMS MAY BE USED FOR THIS PROJECT

NOTE: NOT ALL LEGEND ITEMS MAY BE USED FOR THIS PROJECT

- 24"x24" LAY-IN LIGHT FIXTURE (RE: ELEC. DWGS.)
- 24"x24" LAY-IN LIGHT FIXTURE W/ EMERG. POWER SOURCE (RE: ELEC.)
- 24"x48" LAY-IN LIGHT FIXTURE RE: ELEC. DWGS.
- 24"x48" LAY-IN LIGHT FIXTURE W/ EMERG. POWER SOURCE (RE: ELEC.)
- 12"x48" SURF. MTD. FIXT. (RE: ELEC.)
- 12"x48" SURFACE MTD. FIXTURE W/ EMERG. POWER SOURCE (RE: ELEC.)
- RECESSED DOWNLIGHT (DIRECTIONAL) (RE: ELEC. DWGS.)
- RECESSED DOWNLIGHT (RE: ELEC.)
- SQUARE RECESSED DOWN LIGHT FIXT.
- RECESSED DOWNLIGHT WITH EMERG. POWER SOURCE (RE: ELEC. DWGS.)
- DECORATIVE PENDANT MTD. LIGHT (RE: ID & COORD. W/ELEC. DWGS.)
- COVE LED/ MILLWORK LIGHT (RE: ELEC. DWGS.)

Electrical Plan

PHONE: 561-262-0387
Jon Olson
NCARB
AR91377

Documentation

Plan For: DELRAY BEACH COLUMBARIUM

Location: 901 SW 10 ST DELRAY BEACH, FL 33446

SPALDING + OLSON DESIGN GROUP

E-002

FILE	DATE
XXX	05-23-2023
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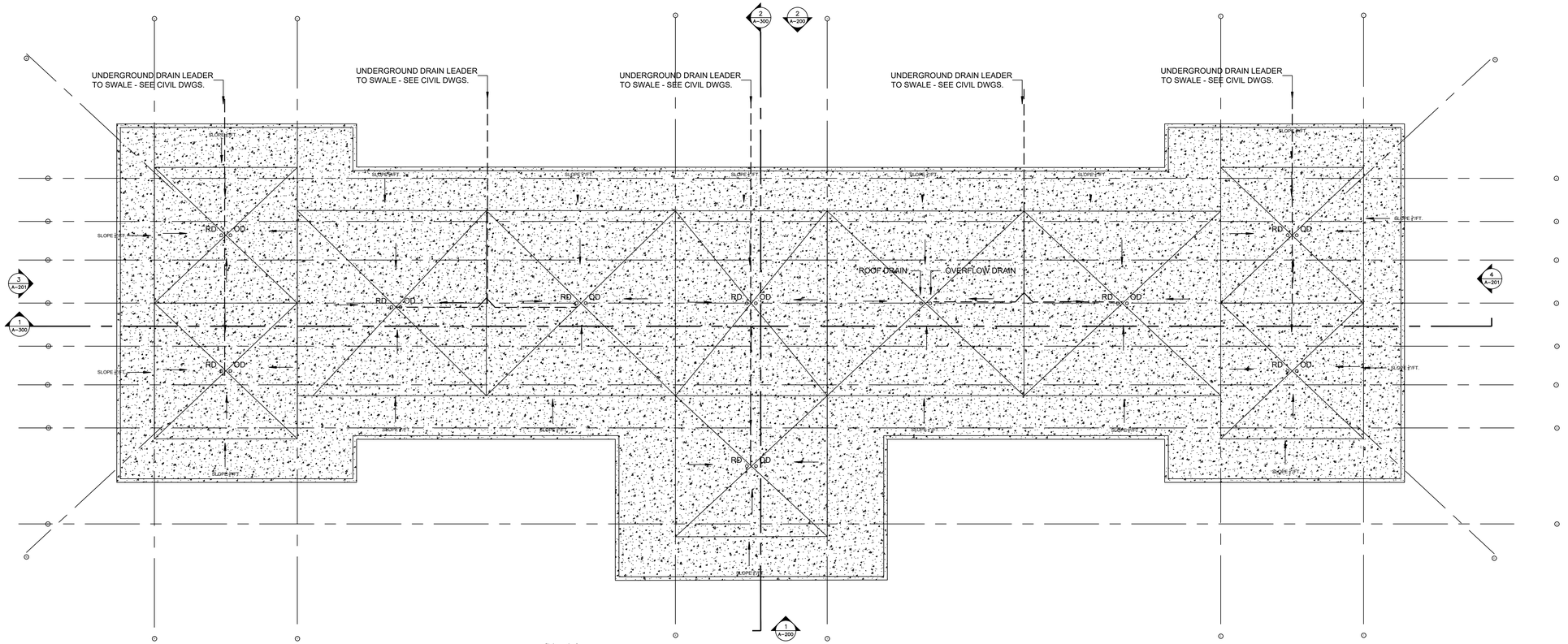
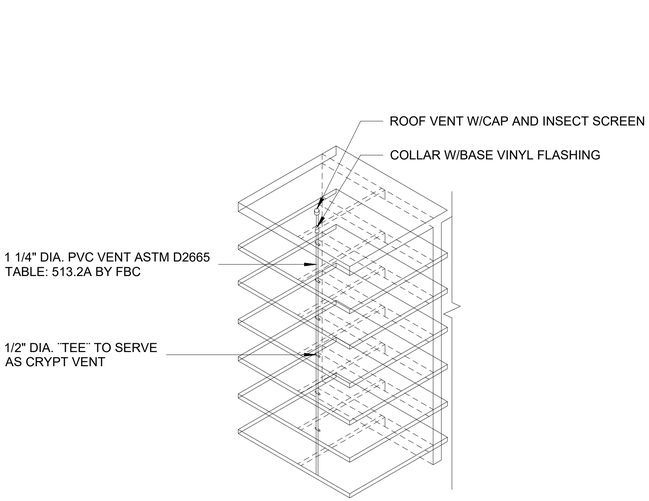
EJO	JDO



MAUSOLEUM PLUMBING PLAN

SCALE : 3/16" = 1'-0"

1

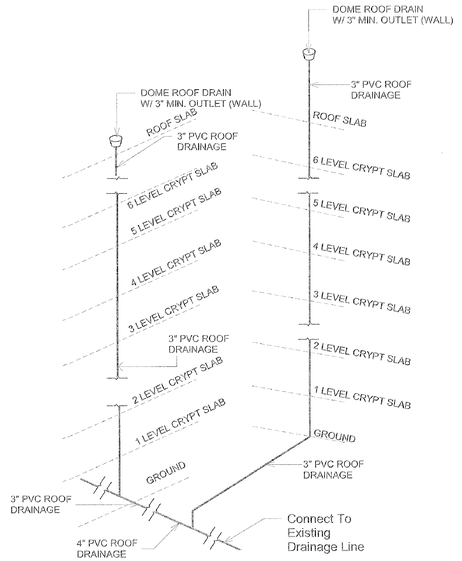


MAUSOLEUM RELIEF VENT RISER (TYP. FOR ALL CRYPTS)

NOTE: SEE ROOF VENT DETAIL - JOHNS MANVILLE

MAUSOLEUMS RELIEF DETAIL

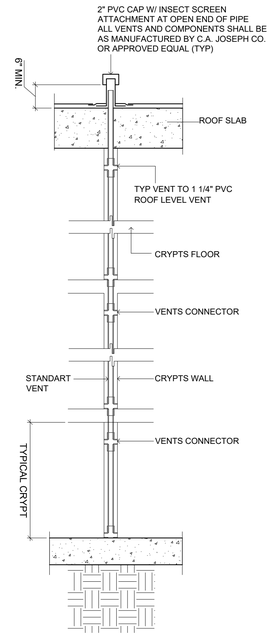
4



Storm Drainage Riser

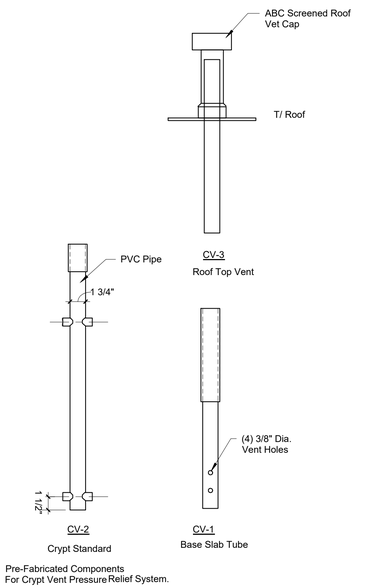
1 1/4" = 1'-0"

Engineering Specifications: The Oatey Roof Drain Offers Superior Drainage With Robust Debris Protection. A Dome Free-Flow Area Over 200 Square Inches, Available In Cast Iron Or Plastic Domes With Gravel Guard.



VENT STACK DETAIL

5



TYP. CRYPT PRESSURE RELIEF VENT. DETAIL

6

Mausoleum Plumbing details

PHONE: 561-262-0387
Jon Olson
NCARB
AR91377

Documentation

Plan For: DELRAY BEACH MAUSOLEUM

Location: 901 SW 10 ST DELRAY BEACH, FL 33446

SPALDING + OLSON DESIGN GROUP

P-001

FILE	DATE
XXX	08-20-24
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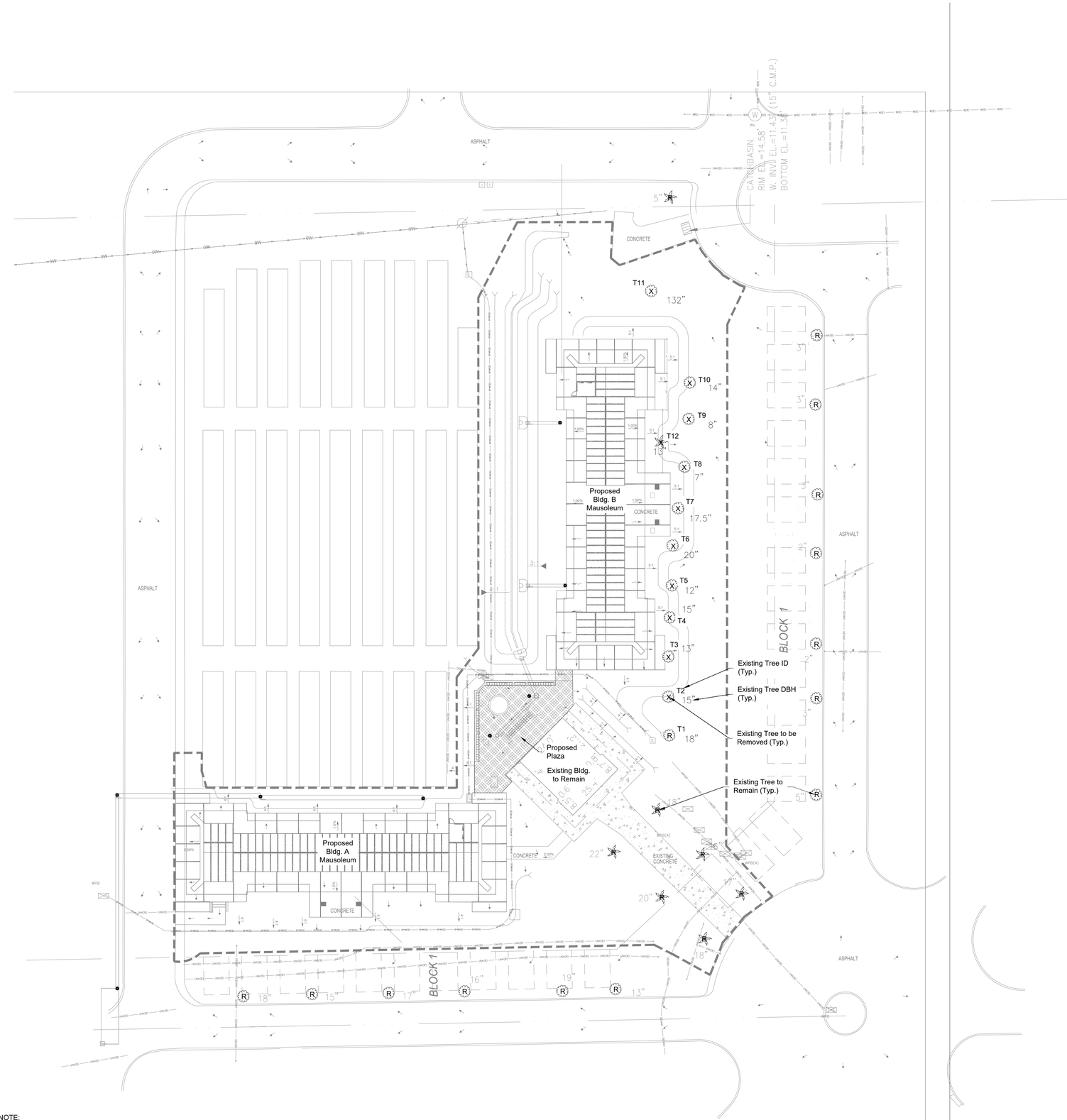
EJO	JDO



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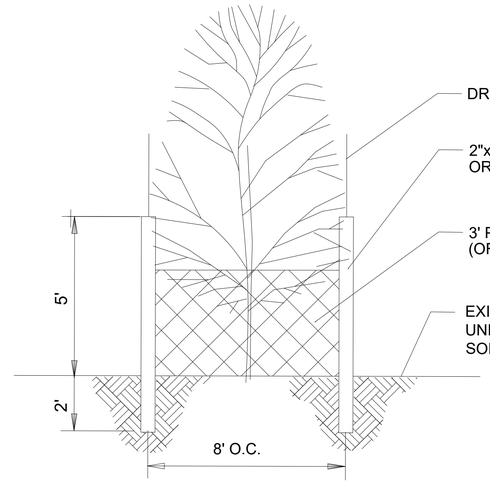

Tree Barricade Notes

A. Trees to be preserved shall be barricaded with a 3 foot high plastic mesh (orange OSHA) supported by 5 foot long rebar or 2" x 2" wood stakes or equivalent if approved in conjunction with the Final Site Plan or Final Subdivision Plan.
B. Trees to be preserved at a lower final grade may be protected with a 24 inch high silt fence around the preserve area or Trees with the addition of the 3 foot high plastic mesh, if needed.
C. If hand clearing is necessary within the preserve area or under the Tree canopy, Trees to be preserved can initially be delineated by plastic ribbon affixed to survey stakes (to avoid putting up and taking down fencing) and then protected with either plastic mesh and/or the silt fence.
D. Trees to be relocated can usually be delineated by plastic ribbon affixed to survey stakes unless their relocation is delayed due to root pruning. If root pruning is required, the Trees shall be protected with either plastic mesh and/or silt fence.

VEGETATION BARRICADE DETAIL

NTS

Notes

1. The final site plan grades have been established to maintain the existing natural grade conditions within the drip line of the trees to remain.

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LOCATION MAP

Hays P. Henderson, PLA
H2 LA Design
900 NW Treasure Rd.
Stuart, Fl 34994
772 323 5290

Existing Tree
T# = Tree Number
R = Remain
X = Remove - Mitigate

GRAPHIC LEGEND

NORTH

0 10 20 40
Scale: 1' = 20'

TREE DISPOSITION PLAN - L1.1

NO	DATE	BY	APRV	REV

CITY OF DELRAY BEACH
MEMORIAL GARDENS
MUNICIPAL CEMETERY

CARVAHAN PROCTOR & CROSS
CIVIL ENGINEERING | CONSTRUCTION SERVICES | GEOMATICS
814 S. MILITARY TRAIL, DEERFIELD BEACH, FLORIDA 33442
PHONE: (954) 972-3959 FAX: (954) 972-4178

FILE NO. 221008

SCALE:	
DATE:	9/2/2025
DRAWN BY:	S.R.
CHECKED BY:	R.R.
DESIGNED BY:	S.R.

REGISTERED LANDSCAPE ARCHITECT HAYS P. HENDERSON LA 6667203 STATE OF FLORIDA

HAYS P. HENDERSON
FLORIDA REGISTRATION NO. - 6667203

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Tree Disposition and Mitigation

Project Address: 901 SW 10th Street **Parcel ID: 12434620270010190**

Preserve

Tree #	Common Name	Scientific Name	Height	Spread	DBH	Condition Rating	Comments
1	Live Oak	*Quercus virginiana*	30	36	17	45%	Co-canopy, multi first order co dom with inclusion, poor structure,

Palm #	Common Name	Scientific Name	Height	Spread	Clear Trunk	Condition Rating	Comments
N/A							

Relocation

Tree #	Common Name	Scientific Name	Height	Spread	DBH	Condition Rating	Comments
N/A							

Palm #	Common Name	Scientific Name	Height	Spread	Clear Trunk	Condition Rating	Comments
N/A							

Removal

Tree #	Common Name	Scientific Name	Height	Spread	DBH	Condition Rating < 50%	Comments
2	Live Oak	*Quercus virginiana*	30	32	14	40%	Co-canopy, first order co dom with inclusion,
3	Live Oak	*Quercus virginiana*	30	32	13	45%	Co-canopy, first order co dom no inclusion, poor structure
4	Live Oak	*Quercus virginiana*	30	28	14.5	40%	Co-canopy, first order co dom with inclusion, sparse foliage
5	Live Oak	*Quercus virginiana*	25	24	11.5	35%	Co-canopy, multi first order co dom no inclusion, poor structure crossing rubbing branches, over extended and over lifted branches,
8	Live Oak	*Quercus virginiana*	25	18	7	30%	Sub-canopy, sparse foliage, tip decline,
9	Live Oak	*Quercus virginiana*	25	18	9.5	45%	Sub-canopy, very poor structure, sparse foliage
11	Rubber Fig	*Ficus elastica*	45	80	60+	50%	Decay in scaffold, first order branches, crossing rubbing branches, dead first order branch, restricted roots two sides,
						Condition Rating ≥ 50%	
6	Live Oak	*Quercus virginiana*	30	36	20	60%	Co-canopy, first order co dom with inclusion
7	Live Oak	*Quercus virginiana*	35	35	17.5	55%	Co-canopy, first order co dom no inclusion,
10	Live Oak	*Quercus virginiana*	35	32	14	50%	Co-canopy, first order co dom with inclusion, poor structure

Trees with Condition Rating < 50% to be Removed: **7 Trees**
Total DBHs of Trees with Condition Rating ≥ 50% to be Removed: **51.5 DBH inches /3 Trees**

Palm #	Common Name	Scientific Name	Height	Spread	Clear Trunk	Condition Rating < 50%	Comments
	N/A						
						Condition Rating ≥ 50%	
12	Cabbage Palm	*Sabal plametto*	14	8	8	50%	Minor Trunk scarring, constrictions

Total Numbers of Palms with Condition Rating < 50% to be Removed: **1 Palm**
Total Heights of Palms with Condition Rating ≥ 50% to be Removed: **14 feet in height /1 Palm**

Mitigation

Tree Replacement Calculations *

New Trees	Caliper (CAL)	Calipers Provided
13 Live Oak Trees	13 X 4 inch CAL	52 inch
6 Live Oak (Tree-for-Tree)		
1 Rubber Tree (Tree-for-Tree)		

Tree - for - Tree Basis: **20 Trees**
Total DBHs of Trees : **80 CALs / 20 NEW Trees"**

Palm Replacement Calculations **

New Palms	Overall Height	Clear Trunk
1 Sable Palm	14	8

Palm-for-Palm Basis: **1 NEW Palms**
Total Heights of Palms **14 NEW Palms"**

TREE REPLACEMENT TABLE

TREES

Qty	COMMON NAME	CALIPER (In.)	CALIPER SUBTOTAL	
1	Gumbo Limbo	5	5	
2	Silver Buttonwood	3	6	
5	Satinleaf	5	25	
3	Orange Geiger Tree	2.5	7.5	
4	Dahoon Holly	3	12	
4	Japanese Privet	3	12	
1	Simpson's Stopper	3	3	
3	Cathedral Live Oak	5	15	
23	**TREE QUANTITY TOTAL**		85.5	**CALIPER TOTAL**

PALMS

		O.A. HEIGHT
9	Cabbage Palm	16

Requirements of Vegetation Removal (Sec. 4.6.19 (E)(5)

*** TREE**

*Staff recommends at least 4" CAL trees for mitigation as required.

Trees with condition rating of ≥ 50%: Total DBHs of trees shall be replaced with equivalent # of CAL inches of replacement trees.

Trees with condition rating of < 50%: Required to be mitigated on a tree-for-tree basis (16' OH X 6' ST X 8' CT X 7' SPR for others & 12' OH for SF & Duplex)

**** Palm**

Palms with condition rating of ≥ 50%: Replaced with one palm of equal overall heights (OH) or 16 ft OH, whichever is greater

Palms with condition rating of < 50%: Required to be mitigated on a palm-for-palm basis (16' OH X 8 CT for others & 12' OH X 6' CT for SF & Duplex)

In Lieu Fee for TREE (Sec. 4.6.19.(E)(5)(d))			
DBH 0 to 8"	$450	8	$3,600
DBH 9" to 12"	$650	4	$2,600
DBH 13" to 18"	$850	4	$3,400
DBH 19" and greater	$1,000		$9,600

example for 16 inch DBH

Example: In-lieu-fee for a 21" DBH tree: ($450 × 8") + ($650 × 4") + ($850 × 6") + ($1,000 × 3") = $3,600 + $2,600 + $5,100 + $3,000 = $14,300

For trees with a condition rating of between 25 percent and 50 percent, the in-lieu fee shall be calculated at 50 percent of the above escalating scale.

Trees and palms with a condition < 50 % are exempt from DBH/caliper inch-for-inch replacement, but are required to be mitigated on a tree-for-tree or palm-for-palm basis.

In-lieu-fee for a palm: $75 per one foot grey trunk or clear trunk

TREE SURVEY DATA: Tree location, size and condition rating is based on tree survey prepared by Sutton Consulting Arborist, ISA Certified Arborist #SO-0326A, April 2, 2023

NOTE:
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TREE DISPOSITION DATA TABLE - L1.2

H2LA Design
LANDSCAPE ARCHITECT
Hays P. Henderson, PLA
H2 LA Design
900 NW Treasure Rd.
Stuart, Fl 34994
772 323 5290

NO | DATE | BY | APRV | RE

CITY OF DELRAY BEACH
MEMORIAL GARDENS
MUNICIPAL CEMETERY

CARNAHAN PROCTOR & CROSS
CIVIL ENGINEERING | CONSTRUCTION SERVICES | GEOMATICS
814 S. MILITARY TRAIL DEERFIELD BEACH, FLORIDA 33442
PHONE: (954) 972-3959 FAX: (954) 972-4178

FILE NO. 221008

SCALE:	
DATE:	9/2/2025
DRAWN BY:	S.R.
CHECKED BY:	R.R.
DESIGNED BY:	S.R.

REGISTERED LANDSCAPE ARCHITECT HAYS P. HENDERSON LA 6667203 STATE OF FLORIDA

HAYS P. HENDERSON
FLORIDA REGISTRATION NO. - 6667203

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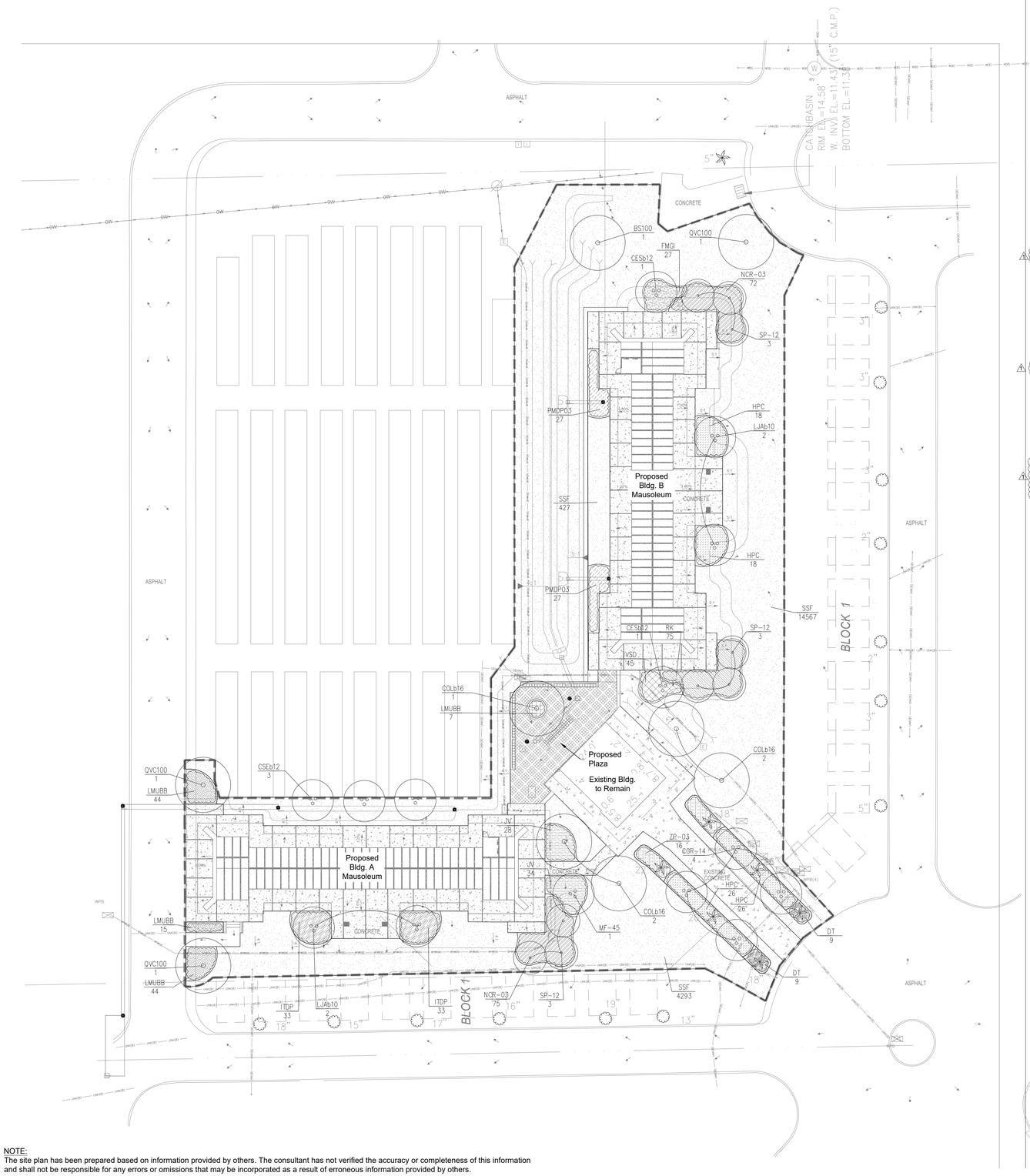


PLANT LIST

TAC 6/13/2025

Trees

Symbol	Qty	CommonName	LatinName	Size	Additional Spec		Native	Dro. Tol. (LMH)
BS100	1	Gumbo Limbo	Bursera simaruba	100 Gal; 16'x7'; 5" Cal.; 8' C.S.T.		A.S.	N	H
CESb12	2	Silver Buttonwood	Conocarpus erectus var. sericeus	B&B; 12'x6'; 3" Cal.; 4' C.T.	Standard	A.S.	N	H
COLb16	5	Satinleaf	Chrysophyllum oliviforme	B&B; 16'x6'; 5" Cal.; 8' C.S.T.		A.S.	N	H
CSEb12	3	Orange Geiger Tree	Cordia sebestena	B&B; 12'x5'; 2½ Cal.; 4' C.T.		A.S.	N	H
CGR-14	4	Bridalveil Tree	Caesalpinia granadillo	B&B; 14'x5'; 2.5" Cal.; 6' C.T., Std.		A.S.	N	H
LJAb10	4	Japanese Privet	Ligustrum japonicum	B&B; 10'x5'; 3" Cal.; 4' C.M.T.;	3-4 Major Trunks; Specimen	A.S.		H
MFb14	1	Simpson's Stopper	Myrcianthus fragrans	B&B.; 14'x5'; 3" Cal.; 5' C.M.T.		A.S.	N	H
QVC100	3	Cathedral Live Oak	Quercus virginiana 'Cathedral Oak'	100 Gal.; 16'x7'; 4" Cal.; 8' C.T.;	Nursery-Grown	A.S.	N	H
SP-12	9	Cabbage Palm	Sabal palmetto	12' C.T.; w/o Boots; Matched		A.S.	N	H

Shrubs

Symbol	Qty	CommonName	LatinName	Size	Additional Spec	Space	Native	Dro. Tol. (LMH)
DT	18	Striped Flax Lily	Dianella tasmanica 'Variegata'	3-Gal.; 18"x18"; Full		24" O.C.		H
FMGI	27	Green Island Ficus	Ficus microcarpa 'Green Island'	3-Gal.; 12"x12"; 7 PPP; Full		24" O.C.		H
HPC	88	Dwarf Firebush	Hamelia patens 'Compacta'	3-Gal.; 18"x15"		18" O.C.	N	H
ITDP	66	Dwarf Pink Ixora	Ixora taiwanensis 'Dwarf Pink'	3-Gal.; 18"-24"		24" O.C.		M
IVSD	45	Stokes Dwarf Yaupon Holly	Ilex vomitoria 'Stokes Dwarf'	3-Gal.; 14"x14"; Full		18" O.C.	N	H
JV	62	Wax Jasmine	Jasminum volubile	3-Gal.; 16"x16"		24" O.C.		M
LMUBB	115	Big Blue Border Grass	Liriope muscari 'Big Blue'	1-Gal.; 9 P.P.P.; Full		18" O.C.		H
NCR-03	147	Giant Apostle Iris	Neomarica caerulea 'Regina'	3-Gal.; 4 P.P.P.; 24" O.A.; Full	Blue Flwr.	24" O.C.		M
RK	75	Dwarf Tree Jasmine	Radermachera spp. 'Kunming'	3-Gal.; 24"x24";		36" O.C.		M
PMDP03	54	Pringles Yew Podocarpus	Podocarpus macrophyllus 'Dwarf Pringles	3-Gal.; 18"x18"		24" O.C.		H
ZP-03	16	Coontie Fern	Zamia pumila	3-Gal.; 18"x18"		24" O.C.	N	H

Turf and Mulch

SSF	19287	Floratam St. Augustine Sod	Stenotaphrum secundatum 'Floratam'	Solid Sod	
EMM	TBD	0	Eco Mulch Eucalyptus or Melaleuca	4"-Thick Mat; Grade A	Depth After Settlemnt; Wet Material

Plant List Notes

Container sizes are an estimate. The plant height, spread and caliper at the time of installation are the controlling specifications for compliance and Final Acceptance.

Quantities (Qty), if shown above, are presented as a courtesy and shall not be relied upon for the purposes of estimating, bidding or purchasing of labor and/or materials. Sod & Mulch quantities represent square feet.

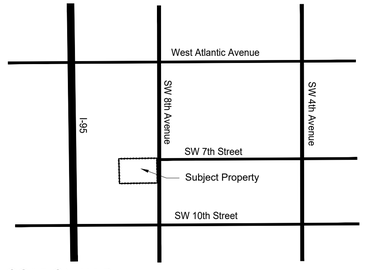
Any interested party shall derive actual quantities by performing a thorough and complete review of the Landscape Plan(s) with adequate consideration given to all information in the Plant List above excluding quantities.

In the event of a discrepancy between the plant list and plan count, the plans shall control.

Turf quantity is approximate. Turf required is to be based on field conditions at time of installation.

Native = (N); designation from the SFWMD Waterwise Guide, South Florida Edition, and UF Hort. Data Base

Drought tolerance (Dro. Tol.): L= Low, M = Moderate, H = High. Designation from the SFWMD Waterwise Guide, South Florida Edition, and UF Hort. Data Base



LOCATION MAP

H2LA Design
LANDSCAPE ARCHITECT
Hays P. Henderson, PLA
H2 LA Design
900 NW Treasure Rd.
Stuart, Fl 34994
772 323 5290

Canopy Tree

Understory Tree

Palm Tree

Shrub or Groundcover

Existing Tree
T# = Tree Number
R = Remain
X = Remove - Mitigate

GRAPHIC LEGEND

NORTH

0 10 20 40

Scale: 1' = 20'

LANDSCAPE PLAN - L1.3

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NO	DATE	BY	APRV	REMARKS
1	6/13/2025			TAC

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MEMORIAL GARDENS
MUNICIPAL CEMETERY

CARNAHAN PROCTOR & CROSS
CIVIL ENGINEERING | CONSTRUCTION SERVICES | GEOMATICS
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PHONE: (954) 972-3959 FAX: (954) 972-4178

FILE NO. 221008

SCALE:	
DATE:	9/2/2025
DRAWN BY:	S.R.
CHECKED BY:	R.R.
DESIGNED BY:	S.R.

REGISTERED LANDSCAPE ARCHITECT
HAYS P. HENDERSON
LA 6667203
STATE OF FLORIDA

HAYS P. HENDERSON
FLORIDA REGISTRATION NO. - 6667203

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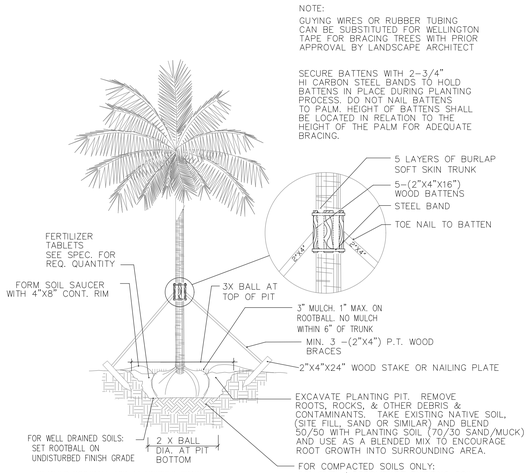
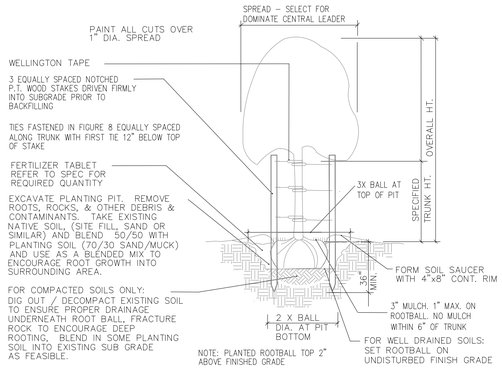


PALM STAKING DETAIL

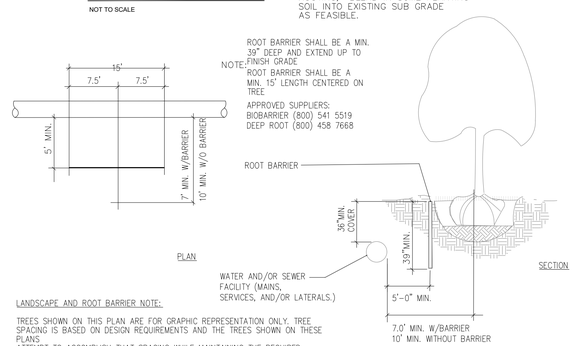
NOT TO SCALE

CALIPER	TIES	STRANDS	STAKES
1" – 1 1/2"	2	1 # 12	2 – 2 X 2
1 1/2" – 2"	3	1 # 12	2 – 2 X 2
2" – 3"	3	2 # 12	3 – 2 X 2
3" – 6"	3	2 # 12	3 – 2 X 2



TREE PLANTING - VERTICAL STAKES

NOT TO SCALE

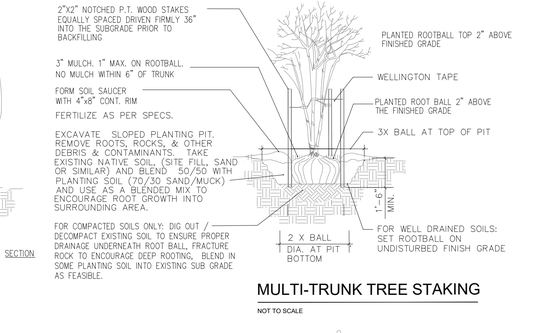


LANDSCAPE AND ROOT BARRIER NOTE:

TREES SHOWN ON THIS PLAN ARE FOR GRAPHIC REPRESENTATION ONLY. TREE SPACING IS BASED ON DESIGN REQUIREMENTS AND THE TREES SHOWN ON THESE PLANS
ATTEMPT TO ACCOMPLISH THAT SPACING WHILE MAINTAINING THE REQUIRED SETBACKS FROM UTILITIES. TREES MAY BE FIELD ADJUSTED TO AVOID CONFLICTS WITH DRIVEWAYS AND UNDERGROUND UTILITIES. IN ANY CASE THE TREES SHALL BE LOCATED IN THE FIELD IN ACCORDANCE WITH THE PLANTING DETAILS SHOWN HEREON.
ADDITIONALLY, TREES ARE TO BE INSTALLED WITH A TEN FOOT (10') SEPARATION FROM ANY WATER OR SEWER MAIN AND/OR SERVICE, HYDRANTS, AND LIFT STATIONS. IF A TEN FOOT (10') SEPARATION CANNOT BE ACHIEVED, THE TREE CAN BE INSTALLED WITH A ROOT BARRIER SYSTEM. REFER TO THE "ROOT BARRIER" DETAIL FOR INSTALLATION REQUIREMENTS. HOWEVER, IN NO CASE SHALL A TREE ENCROACH INTO A PBCUE WITHOUT PRIOR PBCMUD APPROVAL AND ONLY SOD CAN BE INSTALLED WITHIN 7.5' OF A FIRE HYDRANT UNLESS OTHERWISE APPROVED BY THE FIRE MARSHAL AND PBCMUD.

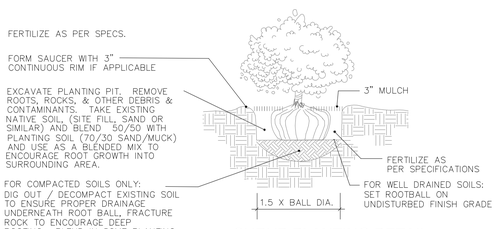
ROOT BARRIER DETAIL

NOT TO SCALE



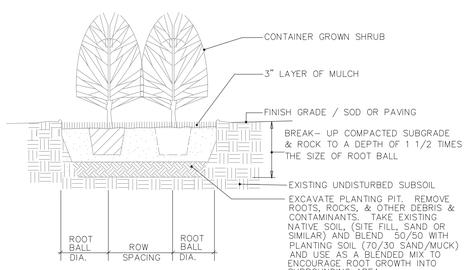
MULTI-TRUNK TREE STAKING

NOT TO SCALE



SHRUB PLANTING DETAIL

NOT TO SCALE

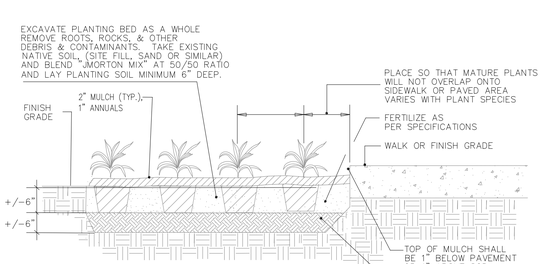


TREE PLANTING - GUY WIRES OR WELLINGTON TAPE

NOT TO SCALE

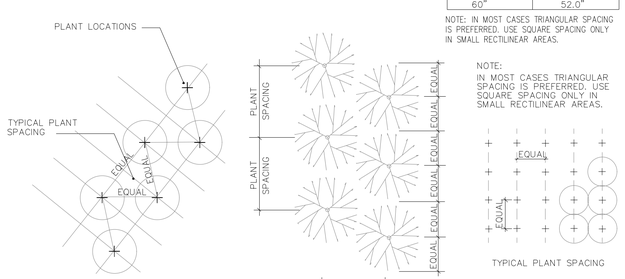
HEDGE & MASS PLANTING DETAIL

NOT TO SCALE



GROUND COVER PLANTING DETAIL

NOT TO SCALE



PLANT SPACING	ROW SPACING
12"	10.4"
18"	15.6"
24"	20.8"
30"	26.0"
36"	31.2"
48"	41.6"
60"	52.0"

NOTE: IN MOST CASES TRIANGULAR SPACING IS PREFERRED. USE SQUARE SPACING ONLY IN SMALL RECTILINEAR AREAS.

NOTE:
The site plan has been prepared based on information provided by others. The consultant has not verified the accuracy 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.

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LANDSCAPE DETAILS - L1.4

NO	DATE	BY	APRV	RE

CITY OF DELRAY BEACH
MEMORIAL GARDENS
MUNICIPAL CEMETERY

H2LA Design
LANDSCAPE ARCHITECT
Hays P. Henderson, PLA
H2 LA Design
900 NW Treasure Rd.
Stuart, Fl 34994
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CARNAHAN PROCTOR & CROSS
CIVIL ENGINEERING | CONSTRUCTION SERVICES | GEOMATICS
814 S. MILITARY TRAIL DEERFIELD BEACH, FLORIDA 33442
PHONE: (954) 972-3959 FAX: (954) 972-4178

FILE NO. 221008

SCALE:	
DATE:	9/2/2025
DRAWN BY:	S.R.
CHECKED BY:	R.R.
DESIGNED BY:	S.R.

REGISTERED LANDSCAPE ARCHITECT HAYS P. HENDERSON LA 6667203 STATE OF FLORIDA

HAYS P. HENDERSON
FLORIDA REGISTRATION NO. - 6667203

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GENERAL

1) WORK INCLUDED
- a) The scope of the work for the landscape contractor for the project shall include the provision of all labor, materials and equipment required to complete all tasks associated with the landscape and irrigation installation as shown on the drawings or noted herein. The landscape contractor is responsible for coordinating with the general contractor reasonable access to power and potable water sources as required to ensure plant survivability and delivery of a completed project that meets all the required specifications.
- b) Subgrade Elevations: Excavation, filling and grading required to establish elevations 4" lower than elevations and contours shown on drawings are not specified in this Section.
- c) Finish Grade Elevations: 1 inch below top of pathway edging.

2) QUALITY ASSURANCE
- a) Subcontract landscape work to a single firm specializing in landscape work.
- b) The landscape contractor shall be responsible for ensuring all work (including delivery, storage and disposal of their materials) is performed in compliance with applicable jurisdictional codes.
- c) The landscape contractor shall be responsible for familiarizing themselves with project plans and scopes of work related to associated trades to be performed by others in order to identify key coordination items including, but not limited to, site access, material storage, and scheduling and sequencing of work. The landscape contractor is responsible for coordinating all site issues with the general contractor.
- d) The plant quantities shown on the landscape contract documents are for the convenience of the landscape contractor. The landscape contractor is responsible for verifying all quantities and reporting any discrepancies to the Landscape Architect for clarification prior to contract award and at commencement of work. Contractor is responsible for confirming sod quantities and certifying such to the Owner or his representative.
- e) The landscape contractor shall be responsible for the protection of all adjacent work, materials and equipment from damage due to their activities. The landscape contractor shall be solely responsible for any damage or injury to person or property that may occur as a result of the execution of their work.
- f) Landscape Contractor to notify the Owner or his representative, or Landscape Architect at least three (3) working days prior to beginning any stage of work.
- g) Owner or Landscape Architect to be immediately notified of any discrepancies found in field.
- h) The Owner or his representative, or Landscape Architect reserve the right to field adjust plant material on-site to avoid conflicts or discrepancies not anticipated in the planning process.
- i) Source Quality Control:
- i) Ship landscape materials with certificates of inspection required by governing authorities. Comply with regulations applicable to landscape materials.
- ii) Do not make substitutions. If specified landscape material is not obtainable, submit to Landscape Architect proof of non-availability and proposal for use of equivalent material. When authorized, adjustment of contract amount will be made. The contractor is responsible for exhausting all means possible to obtain the materials as specified prior to requesting substitution.
- iii) Analysis and Standards: Package standard products with manufacturer's certified analysis. For other materials, provide analysis by recognized laboratory made in accordance with methods established by the Association of Official Agricultural Chemists, wherever applicable.
- iv) Trees, Palms and Shrubs: Provide trees, palms and shrubs grown in a recognized nursery in accordance with good horticultural practice. Provide healthy, vigorous stock free of disease, insects, eggs, larvae, and defects such as decay, knots, sun-scald, injuries, abrasions, and disfigurement. Root systems shall be vigorous and fibrous, filling the container but shall not be root bound or exhibit spiraling roots. Verification of the health and vigor of all plant material is the sole responsibility of the landscape contractor.
- iw) Provide trees, palms and shrubs for grade Florida No. 1 as outlined under the current edition of the Grades and Standards for Nursery Plants, Florida Department of Agriculture, unless otherwise noted.
  - (1) Sizes: Provide trees and shrubs of sizes shown or specified. Trees, palms and shrubs of larger size may be used if acceptable to Landscape Architect, and if sizes of roots or balls are increased proportionately.
- j) Inspection: Landscape Architect reserves right to inspect trees, palms and shrubs either at place of growth or at site before planting, for compliance with requirements for name, variety, size and quality.

3) SUBMITTALS
- a) Certification: Submit certificates of inspections as required by governmental authorities, and manufacturer's or vendor's certified analysis for soil amendments and fertilizer materials. Submit other data substantiating that materials comply with specified requirements.
- b) Submit seed vendor's certified statement for each grass seed mixture required, stating botanical and common name, percentage by weight, and percentage of purity, germination, and weed seed for each grass seed species.
- c) Planting Schedule: Submit planting schedule showing schedule dates for each type of planting in each area of site.
- d) Maintenance Instructions: Submit procedures for maintenance of landscape work.

4) DELIVERY, STORAGE AND HANDLING
- a) Packaged Materials: Deliver packaged materials in original containers showing weight analysis and name of manufacturer. Protect materials from deterioration during delivery, and while stored at site.
- b) Sod: Time delivery so that sod will be placed within 24 hours after stripping. Protect sod against drying and breaking of rolled strips.
- c) Trees, palms and shrubs: Provide freshly dug trees, palms and shrubs. Do not prune prior to delivery. Do not bend or bind-tie trees or shrubs in such a manner to damage bark, break branches or destroy natural shape. Provide protective covering during delivery.
- d) Deliver trees, palms and shrubs after preparations for planting have been completed and plant immediately. If planting is delayed more than 6 hours after delivery, set trees and shrubs in shade, protect from weather and mechanical damage, and keep roots moist.
- e) Do not remove container grown stock from containers until planting time.

5) JOB CONDITIONS
- a) Proceed with and complete landscape work as rapidly as portions of site become available.
- b) Utilities: Determine location of underground utilities and perform work in a manner which will avoid possible damage. Hand excavate, as required. Maintain grade stakes set by others until removal is mutually agreed upon by parties concerned.
- c) Excavation: When conditions detrimental to plant growth are encountered, such as rubble fill, adverse drainage conditions, or obstructions, notify Landscape Architect before planting.
- d) Planting Schedule: Where applicable, prepare a proposed planting schedule. Schedule dates to establish a logical sequence for completing each type of landscape work to avoid damage to other landscape work and work performed by other discipline. Correlate with specified maintenance periods to provide maintenance from date of substantial completion. Once accepted, revise dates only as approved in writing, after documentation of reasons for delay.
- e) Coordination with Lawns: Plant trees, palms and shrubs after final grades are established and prior to planting of lawns, unless otherwise acceptable to Landscape Architect. If planting of trees, palms and shrubs occurs after lawn work, protect lawn areas and promptly repair damage to lawns resulting from planting operations.

6) SPECIAL PROJECT WARRANTY
- a) Warrant lawns through specified maintenance period, and until final acceptance. The required period is for one full year following installation of lawn areas.
- b) Warrant trees for a period of one year after date of substantial completion against defects death and unsatisfactory growth, except for defects resulting from neglect by Owner, abuse or damage by others, or unusual phenomena or incidents which are beyond Landscape Contractor's control.
- c) Warrant shrubs for 1 full year after date of substantial completion.
- d) It is understood that the warranty is to be inclusive of all labor, materials and equipment necessary for the replacement of any plant materials required.
- e) Should the landscape contractor be required to replace any damaged, diseased, dying or dead plant material it is understood that the replacement material is to be of the same species, size and quality as that originally specified on the Landscape Plan. The contractor will be responsible for the removal of all materials and leaving the impacted area clean following any remedial action.
- f) Remove and replace trees, shrubs or other plants found to be dead or in unhealthy condition during warranty period. Make replacements during growth season following end of warranty period. Replace trees and shrubs which are in doubtful condition at end of warranty period; unless, in opinion of the Landscape Architect, it is advisable to extend warranty period for a full growing season or for one full year.
- g) Another inspection will be conducted at end of extended warranty period to determine acceptance or rejection. Only one replacement will be required at end of warranty period, except for losses or replacements due to failure to comply with specified requirements.

PRODUCTS

7) TOPSOIL

8) If topsoil is not available on site it must be furnished as specified. Throughout all parts of site where finish grades and contour lines differ from existing contour lines, bring to finish grade contours shown on "Grading Plan."

9) Topsoil shall be friable fertile soil with representative characteristics of area soils. It should be free of heavy clay, silt, stone, extraneous lime, plant roots and other foreign matter greater than 1 1/2" diameter. It shall not contain noxious plant growth (such as bermuda or nut grass). It shall test in neutral Ph range of 5.0 to 6.75 and contain no toxic substances that can be deemed to impede plant growth. The contractor shall be prepared to have soil lab-tested at his expense by the Landscape Architect or Owner. Topsoil shall comply with the following quantitative analysis.

	COMPONENTS	VOLUME MEASURE	PARTICLE SIZE
(a)	Organic Matter	3 - 5%	
(b)	Silt	10 - 30%	0.05 to 0.002 MM
(d)	Sand	25 - 75%	0.2 to 0.05 MM
(e)	Clay	5 - 25%	0.002 MM and below

10) SOIL AMENDMENTS
- a) If necessary to bring soil into above specified limits:
- b) Lime: Natural limestone (Dolomite) containing not less than 85% of total carbonates, ground so that not less than 90% passes a 10-mesh sieve and not less than 50% passes a 100-mesh sieve.
- c) Peat Humus or Peat Moss: Texture, moisture and pH range suitable for intended use.
- d) Humus Soil Conditioner: Consisting of yard trimmings and biosolids co-compost.
- e) Commercial Fertilizer: Complete fertilizer of neutral character, with 40% - 50% of the total nitrogen in a water insoluble form. It shall be uniform in composition, dry and free flowing.
- i) For trees, palms and shrubs, provide fertilizer with not less than 6% available phosphoric acid, 6% nitrogen and 6% soluble potash.
- ii) For lawns, provide fertilizer with not less than 6% phosphoric acid, and 6% potassium, and percentage of nitrogen required to provide not less than 1 lb. of actual nitrogen per 1000 square feet of lawn area. Provide nitrogen in a form that will be available to lawn during initial period of growth.

11) PLANT MATERIAL
- a) Plant list/schedule is part of this specification section.
- b) Quality: Trees, palms, shrubs and other plants shall conform to the standards for Florida No. 1 or better as given in the latest edition of Grades and Standards for Nursery Plants, Florida Department of Agriculture.
- c) Deciduous Trees: Provide trees of height, spread, and caliper listed or shown and with branching configuration for Florida No. 1 graded trees in Grades and Standard for Nursery Plants for type and species required. Provide single stem trees except where special forms are shown or listed. Ball condition variable.
- d) Balled and burlap trees should be dug and prepared for shipment in a manner that will not damage roots, branches, shape and future development after planting. The product received on-site should have a firm ball with natural soils. Dried, cracked or broken rootballs will not be accepted.
- e) Coniferous and Broad-leafed Evergreens: Provide evergreens of size shown or listed Dimensions indicate minimum height, spread, and caliper. Provide specified quality evergreens with well-balanced form complying with requirements for other size relationships to the primary dimension shown and branching configuration for Florida No. 1 graded trees in Grades and Standard for Nursery Plants for type and species required.
- f) The landscape contractor is responsible for confirming the availability of all the specified plant materials within four (4) weeks of project award. All requests for substitution due to lack of availability must be made to the Landscape Architect in writing within this period. No substitution shall be permitted without prior written approval from the Landscape Architect. The contractor is responsible for exhausting all means possible to obtain the materials as specified prior to requesting substitution.
- g) Root suckers on Live Oaks are not acceptable.
- h) No double or multi-trunk trees unless otherwise specified.

12) GRASS MATERIALS
- a) Grass Seed: Provide fresh, clean, new-crop seed complying with established tolerance for purity and germination. Provide seed of grass species, proportions and minimum percentages of purity, germination, and maximum percentage of weed seed, as specified. Attach a schedule of requirements.
- b) Sod: Provide strongly rooted sod free of weeds and undesirable native grasses, capable of growth and development when planted.
- c) No muck-grown sod shall be utilized in detention areas.

13) MISCELLANEOUS LANDSCAPE MATERIALS
- a) Ground Cover: Provide plants established and well-rooted in removable containers or internal peat pots and with not less than minimum number and length of runners specified.
- b) Anti-Erosion Mulch: Provide clean, dry, mulching hay or straw of coastal bermuda, pangola or bahia grass. Only undeteriorated mulch which can be readily cut into the soil shall be used.
- c) Mulch: Melaleuca or equal. The use of cypress mulch is prohibited.
- d) Stakes and Guys: When required provide stakes and deadmen of sound new hardwood or treated softwood free of knot holes and other defects. Provide wire ties and guys of 2-strand, twisted, pliable galvanized iron wire not lighter than 12 ga. with zinc-coated turnbuckles. Provide not less than 1/2" hose, cut to required lengths to protect tree trunks from damage by wires.

EXECUTION

14) LAYOUT
- a) Layout individual trees and shrub locations and areas for multiple plantings. Stake locations and outline areas and secure Landscape Architect's acceptance before start of planting work. Make adjustments as maybe required.

15) PREPARATION OF PLANTING SOIL
- a) The landscape contractor is responsible for the preparation of soils within all planting areas inclusive of providing all imported soil materials, soil amendments, soil conditioners and fertilizers as required.
- b) Before mixing, clean topsoil of roots, plants, sods, stones, clay lumps, and other extraneous materials harmful or toxic to plant growth.
- c) Mix specified soil amendments and fertilizers with topsoil at rates specified. Delay mixing of fertilizer if planting will not follow placing of planting soil within a few days.
- d) For planting beds, mix planting soil either prior to planting or apply on surface of topsoil and mix thoroughly before planting.
- i) Mix lime with dry soil prior to mixing of fertilizer.
- ii) Prevent lime from contacting roots of acid-loving plants.
- e) Remove all shellrock encountered and backfill with clean sand or sand/soil mix.

16) PREPARATION FOR ALL PLANTING AREAS
- a) Eradicate weeds within the limits of all planting areas prior to beginning landscape installation. Perennial weeds and grasses to be removed include, but are not limited to, nut grass, puncture vine, morning glory, dog fennel, torpedo grass, Bermuda grass, Bahia grass, kikuyu grass, crab grass, carpet grass, sedge and other noxious and/or invasive weeds. The site is to be maintained weed free throughout planting operations.
- b) Existing plant material to be removed, except where noted on the Landscape or Tree Disposition Plans.
- c) Pre--till to scarify soils in all planting areas to a minimum depth of 4". Densely compacted areas between 85% and 90% are to be cross ripped to a minimum of 8" depth. In the process of tilling remove unacceptable materials including, but not limited to, foreign debris, construction waste, roots, concrete, asphalt and rocks greater than ½" diameter on average. In areas to receive sod till in fertilizer to a depth of 2" at a rate of 12 pounds per cubic ft.
- d) All planters shall be excavated to a minimum depth to reach native soil and back-filled with a suitable soil consisting of fifty percent (50%) composted organic matter, well-mixed with native soil. Backfill material shall be free from rock, construction debris, or other extraneous material.
- e) All road rock, concrete, asphalt and other non-natural material to be removed from all planting areas prior to landscape installation.
- f) Spread a layer of 2 to 3 inches of humus soil conditioner over the entire planting areas Planting areas shall include all new sod areas, shrub areas and tree areas. These areas shall be as large as 3 times the diameter of the beds of the plants, except where confined by hardscape features such as paved parking areas, paved walk ways, structures, etc. Overlapping areas shall be considered to be one large planting area for the entire mass. The humus soil conditioner shall then be uniformly disked, tilled or aerified into the existing soil to a depth of 6 to 8 inches with the following exception: no rototilling shall occur closer to the trunks of established plants than one half the distance to the dripline of the existing plant canopy. All plants, including hedges and ground cover shall be planted in individually dug holes and the material dug from the holes shall then be further mixed with the prepared site soil prior to backfilling of the planting holes around the rootballs.
- g) All landscape beds, including sod areas, shall be leveled and raked smooth prior to any planting.

17) PREPARATION FOR PLANTING LAWNS
- a) Preparation of Unchanged Grades: Where lawns are to be planted in areas that have not been altered or disturbed by excavating, grading, or stripping operations, prepare soil for lawn planting as follows: Till to a depth of not less than 6"; apply soil amendments and initial fertilizers; remove high areas and fill in depressions; till soil to a homogenous mixture of fine texture, free of lumps, clods, stones, roots, and other extraneous matter.
- i) Prior to preparation of unchanged areas, remove existing grass, vegetation and turf. Dispose of such material outside of Owner's property; do not turn over into soil being prepared for lawns.
- b) Elsewhere: Loosen subgrade of lawn areas to a minimum depth of 4". Remove stones over 1 1/2" in any dimension and sticks, roots, rubbish and other extraneous matter. Limit preparation to areas which will be planted promptly after preparation.
- c) Spread planting soil mixture to minimum depth required to meet lines, grades and elevations shown, after light rolling and natural settlement.
- d) Place approximately 1/2 of total amount of planting soil required. Work into top of loosened subgrade to create a transition layer and then place remainder of planting soil.
- e) Allow for sod thickness in areas to be sodded.
- f) Grade lawn areas to smooth, even surface with loose, uniformly fine texture. Roll and rake and remove ridges and fill depressions, as required to meet finish grades. Limit fine grading to areas which can be planted immediately after grading.
- g) Moisten prepared lawn areas before planting if soil is dry. Water thoroughly and allow surface moisture to dry before planting lawns. Do not create a muddy soil condition.
- h) Restore lawn areas to specified condition if eroded or otherwise disturbed after fine grading and prior to planting.

18) PREPARATION OF PLANTING BEDS
- a) Loosen subgrade of planting bed areas to a minimum depth of 12" using a cultimulchor or similar equipment\ Remove stones over 1 1/2" in any dimension, and sticks, stones, rubbish and other extraneous matter. Spread planting soil mixture to minimum depth required to meet lines, grades and elevations shown, after light rolling and natural settlement. Place approximately 1/2 of total amount of planting soil required. Work into top of loosened subgrade to create a transition layer, then place remainder of the planting soil. Add soil amendment.
- b) Excavation for Trees and Shrubs: Excavate pits, beds and trenched with vertical sides and with bottom of excavation slightly raised at center to provide proper drainage. Loosen hard subsoil in bottom of excavation.
- c) For balled and burlapped (B & B trees and shrubs), make excavations at least half again as wide as the ball diameter and equal to the ball depth.
- d) For container grown stocks, excavate as specified for balled and burlapped stock, adjusted to size of container width and depth.
- e) Dispose of subsoil removed from landscape excavations. Do not mix with planting soil or use as backfill. Fill excavations for trees and shrubs with water and allow to percolate out before planting.

19) PLANTING TREES, PALMS AND SHRUBS
- a) Lay out individual trees, palm and shrub locations and areas for multiple plantings where required. Stake locations and outline areas and secure Landscape Architect's acceptance before start of planting work. Make adjustments as may be required upon approval.
- b) Set balled and burlapped (B&B) stock on layer of compacted planting soil mixture, plumb and center of pit or trench with top of ball at same elevation as adjacent finished landscape grades. Remove burlap from sides of balls; retain on bottoms. When set, place additional backfill free from rocks and debris around base and sides of ball and work each layer to settle backfill and eliminate voids and air pockets. When excavation is approximately 2/3 full, water thoroughly before placing remainder of backfill. Repeat watering until no more is absorbed. Water again after placing final layer of backfill.
- c) Balled and burlapped trees with natural burlap: pull back or remove at a minimum, the top 1/3 of the burlap from the root ball. Synthetic/plastic burlap and all other non-biodegradable materials must be removed completely from the root ball and disposed of.
- d) Trees in baskets: Remove wire baskets to a depth of 18" min. All synthetic strapping and other non-biodegradable materials must be completely removed and disposed of. Any burlap must be pulled back or removed from the top of the rootball.
- e) If trees are to be containerized, root ball will be shaved at the periphery to remove all circling roots.
- f) Set container grown stock as specified for balled and burlapped stock, except cut cans on 2 sides with an approved can cutter; remove bottoms of wooden boxes after partial backfilling so as not to damage root balls.
- g) Top-most root shall be visible within the top 2" of the root ball.
- h) All proposed trees shall be installed either entirely in or entirely out of planting beds. Planting bed outlines shall not be obstructed and shall be smooth and flowing. If trees are located outside planting beds in grass areas, maintain a minimum three feet 3' wide offset to allow for mowers to maneuver.
- i) Face of trees and palms to be located a minimum of 2'-0" off all sidewalks/bike paths or other paved surfaces, unless otherwise notated on plans.
- j) Groundcover and shrubs to be laid out in a uniform and consistent pattern.
- k) Dish top of backfill to allow for mulching.
- l) Mulch pits, trenches and planting areas. Provide not less than 3" thickness of mulch and work into top of backfill and finish level with adjacent finish grades. Not more than 2" mulch shall be placed over the rootball of the trees. At the base of the plant, 2" must be maintained free of mulch.
- m) Guy and stake trees immediately after planting, as indicated.
- n) The landscape contractor shall install plant materials using the best horticultural practices:
- o) Protect plant material from damage during delivery, staging and installation. Do not begin installation of shrub and groundcover materials prior to completion of irrigation installation and finish grading.
- p) Do not install plant materials in winds in excess of 30 miles per hour.
- q) Do not install plant material if deemed site conditions will impede the ability of plant material to thrive without notifying the Landscape Architect of concerns prior to installation.
- r) Perform all work in accordance with all applicable laws, codes and regulations inclusive of all permits and inspections required by federal, state and local jurisdictions.
- s) The use of cables and chains for the lifting of trees is prohibited. Trees are to be lifted using nylon straps a minimum of 4" in width. Wrap trunks to protect from scraping and scarring.
- t) The 'choke' strapping method for lifting trees is prohibited.
- u) Do not drop plant material.
- v) Limit the amount of plants to be installed per day to those that can adequately be watered in the same day.
- w) Carefully remove containerized plants from their cans to avoid breaking the rootball. Containers should only be removed immediately prior to installation and plants should be immediately watered after placement.
- x) Remove burlap and cut steel baskets from at least the top third of the rootball for all B&B material. Remove wire baskets to a minimum depth of 18".
- y) Plant material must be installed at correct elevation in relation to finish grade as indicated on the planting details after settling. Plants set at incorrect elevations will need to be raised or lowered accordingly at no additional cost to the owner.
- z) Planting pits for trees and shrubs must be excavated to the dimensions specified on the planting details. Following planting area immediately surrounding plant is to be tamped firm and use water jet technique to remove all air pockets repeating as required.
- aa) Apply re-wetting agent to the surface of all plant pits for trees and shrubs per manufacturer's recommendations.
- bb) Apply shredded hardwood mulch in even layer to a 3" depth. Mulch must be pulled off the base of all plant material.
- cc) Continuously monitor status of installed materials and make modifications, clean-ups and replacements as required.

20) PRESERVED PLANT MATERIALS
- a) The contractor is responsible for protecting and maintaining all plant material to remain within the limits of construction as indicated on the plans. Existing trees to remain shall be undisturbed and protected by barricades. Barricades are to be installed prior to any construction or earthwork takes place on the site. Barricades shall remain in place through the duration of all construction activity and not removed until authorization has been received by the Landscape Architect and governing municipality.
- b) No vehicle shall traverse this area nor shall any storage of materials or equipment be permitted within this protected area.
- c) The contractor shall bear the sole responsibility of replacement for any damage to protected materials caused by construction activity without additional costs to the owner.

21) TRANSPLANTED PLANT MATERIALS
- a) Root prune all large canopy trees to be relocated prior relocation one half of the root system at a time and allow of adequate harden off time.
- b) Transplanted Sabal Palms shall be hurricane cut and rootballs shall be wrapped in burlap or plastic if not being planted within a 24 hour period.
- c) Palms of other species shall have their fronds tied together to prevent leaf damage and facilitate handling.
- d) Planting hole for transplanted material should measure two times the diameter of the root ball.
- e) Trees shall be planted at the same depth as it was in the field.
- f) The landscape contractor shall be responsible for providing supplemental irrigation through hand watering or other means (including temporary drip, water wands and soaker hoses) to help establish all transplanted trees. The contractor should continue to monitor the moisture content for all transplanted trees and adjust supplemental irrigation as needed.
- g) All relocated trees shall be staked accordingly.
- h) The contractor shall bear the sole responsibility of replacement for any damage to transplanted materials caused by construction activity, deficient irrigation, or poor transplant procedure without additional costs to the owner.

22) PRUNING
- a) All pruning shall be done on the site before planting as directed by Landscape Architect. Pruning shall follow modern horticultural practices (Grades and Standards for Nursery Plants) and shall be done with approved tools designed for the purpose intended. Lopping, topping, or shearing of trees or shrubs will be grounds for rejecting the plants as unsuitable and not meeting requirements. Damaged, scarred, frayed, split, or skinned branches, limbs or roots shall be pruned back to line wood nearest to the next sound outside lateral bud, branch, limb or root. The terminal leader or bud in all trees or shrubs shall be left intact and not removed unless damaged.
- b) Prune, thin out and shape trees and shrubs. Prune trees to retain required height and spread. Unless otherwise directed by Landscape Architect, do not cut tree leaders, and remove only injured or dead branches from flowering trees, if any. Prune shrubs to retain natural character.

23) SODDING NEW LAWNS
- a) Lay sod within 24 hours from time of stripping.
- b) Lay sod to form a solid mass with tightly fitted joints. Butt ends and sides of sod strips; do not overlap. Stagger strips to offset joints in adjacent courses. Work from boards to avoid damage to subgrade or sod. Tamp or roll lightly to ensure contact with subgrade. Work sifted soil into minor cracks between pieces to sod; remove excess to avoid smothering of adjacent grass.
- c) There shall be no gaps greater than ½" between pieces of sod.
- d) Water sod thoroughly with a fine spray immediately after planting. Newly sodded areas shall be kept moist for the first week after planting after which a minimum watering rate of 2" per week, including rainfall shall be applied.
- e) No muck-grown sod shall be utilized in detention areas.
- f) Landscape Contractor is responsible for replacing any damaged sod.

24) MAINTENANCE
- a) The landscape contractor shall be responsible for the maintenance of all plant materials and the planting areas immediately after planting and until final acceptance but the owner, Landscape Architect, and governing municipality.
- b) Maintain trees, palms, shrubs and other plants until final acceptance but in no case less than following period: 30 days after substantial completion of planting.
- c) Maintain trees, palms, shrubs and other plants by pruning, cultivating and weeding as required for healthy growth. Restore planting saucers. Tighten and repair stake and guy supports and reset trees and shrubs to proper grades or vertical position as required. Restore or replace damaged wrappings. Spray as required to keep trees and shrubs free of insects and diseases.
- d) Remove and replace excessively pruned or malformed stock resulting from improper pruning.
- e) Maintain lawns for not less than the period stated below, and longer as required to establish an acceptable lawn.
- f) Sodded lawns, not less than 30 days after substantial completion.
- g) Seeded lawns, not less than 60 days after substantial completion.
- h) Maintain lawns by watering fertilizing, weeding, mowing, trimming, and other operations such as rolling, regrading and replanting as required to establish a smooth, acceptable lawn, free of eroded or bare areas.
- i) Landscape Contractor is responsible for watering all sod and plant materials from day of installation through final acceptance even if irrigation is not in place, unless this responsibility is assumed in writing by another party.
- j) Contractor is responsible for returning to the site after a period of (1) one year to remove the staking from the trees and palms.

25) CLEANUP AND PROTECTION
- a) During landscape work, keep pavement clean and work area in an orderly condition.
- b) Protect landscape work and materials from damage due to landscape operations, operations by other contractors and trades and trespassers. Maintain protection during installation and maintenance periods. Treat, repair or replace damaged landscape work as directed.

26) INSPECTION AND ACCEPTANCE
- a) When landscape work is completed, including maintenance, Landscape Architect will, upon request, make an inspection to determine acceptability. Landscape work may be inspected for acceptance in parts agreeable to Landscape Architect, provided work offered for inspection is complete, including maintenance.
- b) Seeded lawns will be acceptable provided requirements, including maintenance, have been complied with, and healthy, uniform close stand of specified grass established, free of weeds, bare spots and surface irregularities (95% coverage required for acceptance).
- c) Sodded lawns will be acceptable provided requirements, including maintenance, have been complied with, and healthy, well-rooted, even-colored, viable lawn is established, free of weeds, open joints and bare areas (95% coverage required for acceptance). Where inspected landscape work does not comply with requirements, replace rejected work and continue specified maintenance until re-inspected by Landscape Architect and found to be acceptable. Remove rejected plants and materials promptly from project site.

27) IRRIGATION
- a) An automatic irrigation system providing 100% coverage with 50% minimum overlap is to be designed and installed to maintain an established landscape.
- b) Bubblers shall be provided on all trees.
- c) The landscape contractor shall be responsible for providing supplemental irrigation through hand watering or other means (including temporary drip, water wands and soaker hoses) to help establish the new and salvaged material. The contractor should continue to monitor the moisture content for all trees and shrubs.
- d) The landscape contractor is responsible for obtaining all necessary permits prior to installation.
- e) Provide an as built drawing of the irrigation system to the Landscape Architect.
- f) A rain sensor is required on all irrigation systems.

NOTE:
The site plan has been prepared based on information provided by others. The consultant has not verified the accuracy 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.

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CITY OF DELRAY BEACH
MEMORIAL GARDENS
MUNICIPAL CEMETERY

NO	DATE	BY	APRV	RE

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DATE:	9/2/2025
DRAWN BY:	S.R.
CHECKED BY:	R.R.
DESIGNED BY:	S.R.

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