



**NEIGHBORHOOD MEETING - BOCA
CIEGA STREET END
BEAUTIFICATION PROJECT
AGENDA**

**Tuesday, February 13, 2024 at 6:00 PM
Commission Chambers, 300 Municipal Drive,
Madeira Beach, FL 33708**

Meetings will be televised on Spectrum Channel 640 and YouTube Streamed on the City's Website.

1. BOCA CIEGA STREET END BEAUTIFICATION PROJECT

A. Boca Ciega Street End Beautification Project

One or more Elected or Appointed Officials may be in attendance.

This is a neighborhood meeting to get public input on the Boca Ciega Street End Beautification Project. In accordance with the Americans with Disability Act and F.S. 286.26; any person with a disability requiring reasonable accommodation to participate in this meeting should call the City Manager at 727-391-9951, ext. 227 or 228 or email a written response to rgomez@madeirabeachfl.gov.



Memorandum

Meeting Details: February 13, 2024

Prepared For: Residents of Madeira Beach

From: Megan Wepfer, Public Works Director

Subject: Boca Ciega Street End Beautification Project

Background

The City of Madeira Beach received approval from the Board of Commissioners (BOC) in 2023 to proceed with the design to enhance the street ends in the Boca Ciega neighborhood. Staff has proceeded with Halff, a contracted Engineering Firm who has provided designs based on staff recommendations. There are five (5) parks included in this project area. The intention of this project is to keep the accessibility to the neighboring homes, provide a designated walking path, provide a drive path and or parking area if needed, provide benches, install raised garden beds, and make these areas more aesthetic to everyone.

Each park will include a paver walkway with a designated seating area at the seawall. As you will see in the design each area will look different from the other but have the same goal. The pavers selected for these areas will be like the 133rd Street End.

Once the project has been discussed staff will proceed with releasing a public bid for the project area. The bid process typically takes 3 months from the time placed out to the award of the contract. The goal is to complete this project by September 1, 2024, before the active hurricane season.

Staff will be onsite to answer any questions or concerns. If you would like to discuss this prior to the meeting or are not able to attend, please contact Megan Wepfer, Public Works Director, by phone or email anytime.

Megan Wepfer

City of Madeira Beach

mwepfer@madeirabeachfl.gov

C: 727-543-8154



300 Municipal Drive
Madeira Beach, Florida 33708
727-391-9951
Fax 727-395-9361
www.madeirabeachfl.gov

INVITATION TO PARTICIPATE

BOCA CIEGA STREET END BUTIFICATION PROJECT

TUESDAY FEBURARY 13, 2024

6:00 PM TO 8:00 PM

CITY HALL – 300 Municipal Dr., Madeira Beach, FL 33708

The City of Madeira Beach with a consensus from the Board of Commissioners has contracted with Halff Engineering to enhance the street ends in Boca Ciega neighborhood. Staff will have the design plans on hand for review and discussion.



Printing Date: 1/31/2023 3:46:01 PM
File: A:\38545\01\GIS\IMD\20230103-LocationMap-6x11.mxd

Information contained on this map is derived from the public domain and is not to be construed as a warranty or representation of accuracy. The data on this map was prepared and is the property of Halff Engineering.

	1000 N. Ashley Drive, Suite 900 Tampa, FL 33602 813.620.4500		Location Map	0 50 100 200 FEET 1 IN. = 200 FT.	38545.001 Pocket Parks
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LANDSCAPE PLAN FOR POCKET PARKS

MADEIRA BEACH, FLORIDA

POCKET PARKS

CITY OF MADEIRA BEACH
MADEIRA BEACH, FL.



PREPARED BY:



Sheet List Table

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H-501	HARDSCAPE DETAILS
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L-501	PLANTING DETAILS
IR-101	IRRIGATION PLAN
IR-102	IRRIGATION PLAN
IR-103	IRRIGATION PLAN
IR-501	IRRIGATION DETAILS
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APPENDIX A	SURVEY
APPENDIX B	GEO - REPORT

REVISION NO.	DATE	DESCRIPTION

PRELIMINARY
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MARTIN STEFFEN, FLA 6667386
NAME LICENSE NO.
DATE 1/9/2024
28000636 FL
FIRM / BUSINESS NO. STATE

PROJECT NO.: 38545.001
ISSUED: OCTOBER 2023
DRAWN BY: IG
CHECKED BY: LMD
SCALE:

SHEET TITLE
COVER SHEET

L001



GENERAL NOTES:

- LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR VERIFYING PROJECT SITE CONDITIONS AND DETERMINING REQUIRED QUANTITIES AND AVAILABILITY OF ALL MATERIALS PRIOR TO BIDDING. QUANTITIES ARE PROVIDED FOR INFORMATIONAL PURPOSES ONLY. IF ANY DISCREPANCIES OCCUR BETWEEN QUANTITIES CALLED FOR ON THE PLANT LIST AND THOSE INDICATED ON THE DRAWINGS, THE DRAWINGS SHALL GOVERN.
- PRIOR TO COMMENCEMENT OF CONSTRUCTION, CONTRACTOR SHALL INSPECT PLANTING AREAS AND VERIFY THAT NO OBJECTIONABLE MATERIALS OR OBSTRUCTIONS ARE PRESENT. PRESENT FINDINGS TO OWNER'S REPRESENTATIVE FOR APPROVAL. ALL EXISTING PLANTING SHALL REMAIN INTACT AND UNDISTURBED UNLESS OTHERWISE NOTED ON THE DRAWINGS. ALL EXISTING SITE FURNISHINGS, PAVING, LANDSCAPE, AND OTHER ELEMENTS TO REMAIN SHALL BE PROTECTED FROM ANY DAMAGE UNLESS OTHERWISE NOTED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ADJACENT IMPROVEMENTS FROM DAMAGE AND EROSION INCLUDING BUT NOT LIMITED TO EXISTING PLANT MATERIAL, GRADES, SIDEWALKS, SITE FURNISHINGS, CURBS, AND UTILITIES. ANY ADJACENT IMPROVEMENTS DAMAGED DURING CONSTRUCTION SHALL, AT A MINIMUM, BE RESTORED TO A STATE EQUAL TO ITS PRE-CONSTRUCTION STATE AT THE CONTRACTOR'S EXPENSE. THE LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR SODDING ALL AREAS DISTURBED BY OTHER CONTRACTORS OR BY LANDSCAPE INSTALLATION.
- IN GENERAL, THE WORK SHALL PROCEED AS RAPIDLY AS THE SITE BECOMES AVAILABLE. CONTRACTOR TO COORDINATE PROJECT SCHEDULE WITH OWNER'S REPRESENTATIVE. WORK TO BEGIN WITHIN 5 BUSINESS DAYS OF RECEIPT OF NOTICE TO PROCEED.
- THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS TO COMPLETE WORK, AND SHALL COMPLY WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS.
- THE LANDSCAPE CONTRACTOR SHALL COORDINATE CONSTRUCTION OF PLANTING AREAS WITH HARDSCAPE, ELECTRICAL, AND IRRIGATION WORK.
- LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ANY HOISTING EQUIPMENT NECESSARY FOR THE PLACEMENT OF PLANT MATERIAL.
- COLLECT SOIL SAMPLES AT A MINIMUM OF (3) PLANTING LOCATIONS THROUGHOUT THE PROJECT. SUBMIT TESTING LOCATIONS TO OWNER'S REPRESENTATIVE PRIOR TO TAKING SAMPLES. SAMPLES SHALL BE SENT TO AN APPROVED AGRONOMIC SOILS TESTING LABORATORY. STATING PROPOSED PLANT MATERIAL AT EACH TEST LOCATION. ANALYSIS SHALL INCLUDE, AT A MINIMUM, PH, NPK, ORGANIC CONTENT, TEXTURE, AND SOLUBLE SALTS. SUBMIT RESULTS/RECOMMENDATIONS AND PROPOSED FERTILIZER ANALYSIS/AMENDMENTS TO OWNER'S REPRESENTATIVE. COSTS OF FERTILIZER AND AMENDMENTS ARE TO BE INCLUDED IN THE COST OF THE PROJECT.
- LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND VERIFYING THE CONDITION OF UNDERGROUND UTILITIES THAT AFFECT PLANTING LOCATIONS. IF ANY CONFLICTS OCCUR BETWEEN PROPOSED LOCATION OF TREES ON THE DRAWINGS AND ANY UNDERGROUND, SUBSURFACE, OR OVERHEAD UTILITIES OR STRUCTURES THE LANDSCAPE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATIONS AND PROTECTION OF ALL EXISTING UTILITIES SHOWN OR NOT SHOWN, AND ALL PROPOSED UTILITIES ON THESE DRAWINGS.
- IF THE LANDSCAPE CONTRACTOR DAMAGES ANY STAKED OR IN PLACE UTILITIES OR STRUCTURES BY HIS OWN NEGLIGENCE THEY SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
- THE LANDSCAPE CONTRACTOR SHALL REFER TO THE LANDSCAPE PLANTING DETAILS, NOTES, AND THE LANDSCAPE SCHEDULE FOR COMPLETE LANDSCAPE INSTALLATION INSTRUCTIONS. NOTIFY OWNER'S REPRESENTATIVE OF ANY AND ALL DISCREPANCIES PRIOR TO CONSTRUCTION OR INSTALLATION.
- THE LANDSCAPE CONTRACTOR SHALL RE-GRADE ALL AREAS DISTURBED BY PLANT REMOVAL, RELOCATION, AND/OR INSTALLATION WORK. ANY DAMAGED PLANT MATERIAL SHALL BE REPLACED WITH PLANTS OF SAME SPECIES (MIN 12' HT, 3" CAL, 6" CT) EQUALING THE TOTAL DIAMETER BREST HEIGHT (DBH) OF THE DAMAGED TREE AND SHALL BE SUBJECT TO ALL REQUIREMENTS HEREIN.
- ALL UNPAVED DISTURBED AREAS WITHIN PROJECT LIMITS SHALL BE SODDED TO MATCH EXISTING TURF. UNLESS OTHERWISE SPECIFIED, ENSURE EXISTING GRADES ARE RE-ESTABLISHED. TRIM EDGES EVENLY AND BUTT SOO PIECES TOGETHER CLOSELY. PEG SOD IN PLACE WHERE SLURGE MAY OCCUR. ALL OTHER AREAS NOT SPECIFICALLY ADDRESSED IN THESE PLANS MUST BE CONSIDERED AT THE CONTRACTOR'S RISK FOR DISTURBING ACTIVITIES. CONTRACTOR IS RESPONSIBLE FOR ACHIEVING STABILIZATION FREE OF WASH-OUTS UNTIL FINAL ACCEPTANCE BY OWNER.
- THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR WATERING ALL NEWLY INSTALLED PLANT MATERIAL AS NEEDED TO MAINTAIN HEALTH AND VIGOR THROUGHOUT THE 90 DAY MAINTENANCE PERIOD REGARDLESS OF THE STATUS OF EXISTING OR PROPOSED IRRIGATION AND/OR RAINFALL.

DAMAGES AND WARRANTY:

- ALL PLANT MATERIAL, INCLUDING TRANSPLANTED PLANT MATERIAL, SHALL BE GUARANTEED AT OR ABOVE THE SPECIFIED CONDITIONS THROUGH SUBSTANTIAL COMPLETION AND UNTIL THE END OF THE (1) YEAR WARRANTY PERIOD. MAINTENANCE SHALL BE PROVIDED BY THE LANDSCAPE CONTRACTOR FOR 90 DAYS AFTER SUBSTANTIAL COMPLETION. AFTER WHICH THE LANDSCAPE CONTRACTOR WILL MAINTAIN MAINTENANCE WITH OWNER'S REPRESENTATIVE. DECLINE IN CONDITION OF PLANT MATERIAL DURING INSTALLATION AND/OR WARRANTY PERIOD SHALL BE GROUNDS FOR REJECTION AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE.
- THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR RE-STAKING OF TREES DURING THE WARRANTY PERIOD. IF NECESSARY, MINIMUM TOLERANCE FROM VERTICAL SHALL BE 3 INCHES. GUYING / STAKING PRACTICES SHALL NOT PERMIT NAILS, SCREWS, WIRES ETC., TO PENETRATE OUTER SURFACE OF TREES OR PALMS. TREES OR PALMS REJECTED DUE TO THIS PRACTICE SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
- THE OWNER AND/OR THE OWNER'S REPRESENTATIVE HAS THE RIGHT TO REJECT ANY AND ALL WORK WHICH DOES NOT MEET WITH THE REQUIREMENTS OF THE SPECIFICATIONS AT ANY STAGE OF THE PROJECT. CONTRACTOR TO REPLACE REJECTED PLANT MATERIAL WITHIN ONE WEEK (5 BUSINESS DAYS) OF NOTICE.
- CONTRACTOR TO REQUEST INSPECTION OF PROJECT IN WRITING TO OWNER'S REPRESENTATIVE. IF ALL WORK IS SATISFACTORY AND COMPLETE IN ACCORDANCE WITH CONDITIONS OF CONTRACT DOCUMENTS, THEN THE OWNER AND/OR THEIR REPRESENTATIVE SHALL DECLARE THE PROJECT TO BE SUBSTANTIALLY COMPLETE. SUBSTANTIAL COMPLETION CONSTITUTES THE BEGINNING OF THE 1 YEAR WARRANTY PERIOD AND THE 90 DAY MAINTENANCE PERIOD.
- CONTRACTOR SHALL REMOVE ALL PLANT SAUCERS, GRADE SMOOTH, AND RE-MULCH AS WELL AS REMOVE PLANTING STAKES FROM SITE AFTER THE (1) YEAR WARRANTY PERIOD.

PROJECT SUBMITTALS:

- CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR APPROVAL FOR ALL PROPOSED MATERIALS INCLUDING BUT NOT LIMITED TO PLANTS, STAKING, SOIL AMENDMENTS, FERTILIZER, MULCH, ETC. PRIOR TO PURCHASING. CONTRACTOR SHALL PROVIDE REPRESENTATIVE SAMPLES OF ALL PLANT MATERIAL ON-SITE FOR REVIEW BY OWNER'S REPRESENTATIVE. NOTIFY OWNER'S REPRESENTATIVE OF ANY DISCREPANCIES WITHIN 3 BUSINESS DAYS PRIOR TO INSPECTION. IF APPROVED BY OWNER'S REPRESENTATIVE, THEN DATED AND SCALED COLOR PHOTOGRAPHS MAY ALSO BE SUBMITTED.
- ALL PROJECT SUBMITTALS MUST BE COMPLETED AND COMPILED IN AN EASILY REPRODUCIBLE FORM. SUBMITTAL SHEETS THAT ARE NOT LEGIBLE AND REPRODUCIBLE WILL BE REJECTED. SUBMITTAL SHEETS THAT DO NOT CLEARLY IDENTIFY THE PRODUCTS OR MATERIALS SELECTED WILL BE REJECTED.
- CONTRACTOR SHALL SUBMIT TO THE OWNER'S REPRESENTATIVE THE GROWER'S AND/OR STATE INSPECTION CERTIFICATE FOR PLANT MATERIAL TWO (2) WEEKS PRIOR TO COMMENCEMENT OF WORK.
- PRODUCTS INSTALLED ON THE PROJECT SITE THAT ARE NOT CONSISTENT WITH THE PROJECT SUBMITTALS WILL BE REMOVED AND REPLACED WITH THE PRODUCTS IDENTIFIED IN THE PROJECT SUBMITTAL PACKAGE AT THE CONTRACTOR'S EXPENSE.
- PRIOR TO ISSUING SUBSTANTIAL COMPLETION NOTICE THE CONTRACTOR SHALL SUBMIT TO THE OWNER THREE (3) COPIES OF AS BUILT PLANS DOCUMENTS AND THREE (3) COPIES OF AN ANNUALIZED MAINTENANCE AND OPERATION MANUAL DETAILING ALL SCHEDULES, NURSERY PRACTICES, WATERING REQUIREMENTS, FERTILIZATION, TRIMMING, ETC., FOR ALL PLANT MATERIALS AND PLANT AREAS OF THE PROJECT.

SITE REQUIREMENTS:

- CONTRACTOR SHALL AGREE TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY, THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY, AND HOLD THE OWNER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN THE CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER.
- LANDSCAPE HOLDING AREA, INGRESS, EGRESS, AND SITE ACCESS SHALL BE COORDINATED WITH THE OWNER'S REPRESENTATIVE. THE CONTRACTOR SHALL NOT DISTURB OR IMPED ACCESS TO THE SITE BY OTHERS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE DAILY CLEANUP OF PREMISES AND REMOVAL OF DISCARDED OR SURPLUS MATERIALS AND RUBBISH IN A LAWFUL MANNER. ANY OPEN PITS OR TRENCHES SHALL BE COMPLETELY AND THOROUGHLY BARRICADED DURING THE WORKDAY AND COMPLETELY FILLED IN AT THE END OF EACH WORKDAY. ALL MATERIALS, PRODUCTS, AND EQUIPMENT REMAINING ON SITE AT THE END OF THE WORK DAY SHALL BE STORED IN AN ORGANIZED FASHION IN THE AREA DESIGNATED BY THE OWNER'S REPRESENTATIVE.
- ALL CONTRACTORS AND SUBCONTRACTORS SHALL HAVE A SET OF APPROVED CONSTRUCTION DOCUMENTS ON SITE AT ALL TIMES.
- DURING CONSTRUCTION, CREWS ARE REQUIRED TO HAVE AT LEAST ONE (1) ENGLISH SPEAKING PERSON ON SITE.

SITE PLAN AND COORDINATE GIOMETRY:

- MONUMENTS AND OTHER SURVEY CONTROL POINTS SHALL BE PROTECTED FROM DAMAGE AND DISTURBANCE. IF ANY CONTROL POINTS ARE DAMAGED OR DISTURBED, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE ENGINEER AND REPLACE THE CONTROL POINTS TO THEIR ORIGINAL CONDITION AT HIS OWN EXPENSE.
- LOCATIONS, ELEVATIONS, AND DIMENSIONS OF EXISTING UTILITIES, STRUCTURES AND OTHER FEATURES ARE SHOWN ACCORDING TO THE BEST INFORMATION AVAILABLE AT THE TIME OF PREPARATION OF THESE PLANS. THE CONTRACTOR SHALL VERIFY THE LOCATIONS, ELEVATIONS AND DIMENSIONS OF ALL EXISTING UTILITIES, STRUCTURES AND OTHER FEATURES AFFECTING THIS WORK PRIOR TO CONSTRUCTION.

EXISTING TO REMAIN PLANT CARE:

- FLAG ALL TREES AND PALMS TO BE SAVED IN PLACE. PROVIDE BARRICADING IN ACCORDANCE WITH LOCAL STANDARDS AROUND TREES AND PALMS TO BE SAVED IN PLACE PRIOR TO SITE DEMOLITION.
- ALL WORK INVOLVING EXISTING TREES TO REMAIN SHALL BE UNDERTAKEN IN THE PRESENCE OF A REGISTERED ARBORIST. ALL TREES AND PALMS TO BE SAVED SHALL BE EXAMINED FOR DAMAGE, DISEASE AND INSECT INFESTATION. PARTS OF THE TREE SHOWING THESE CONDITIONS SHALL BE TREATED OR PRUNED IN ACCORDANCE WITH THE ARBORIST'S RECOMMENDATIONS. REMOVE ALL DEAD LIMBS AND VINES.
- ROOT PRUNE ALL TREES TO BE SAVED PER DRAWINGS PRIOR TO GRADING AROUND TREES.
- TREAT ALL CUTS WITH A FUNGICIDAL BARRIER. BACKFILL THE TRENCH, WITHIN 4 HOURS OF DIGGING, WITH A 1:1 MIXTURE OF SITE SOIL AND SAWDUST OR OTHER FINE ORGANIC MATERIAL. DO NOT COMPACT.
- FERTILIZE THE PLANT AS DIRECTED BY THE CONSULTING ARBORIST.

POCKET PARKS

CITY OF MADEIRA BEACH
MADEIRA BEACH, FL.



REVISION NO.	DATE	DESCRIPTION

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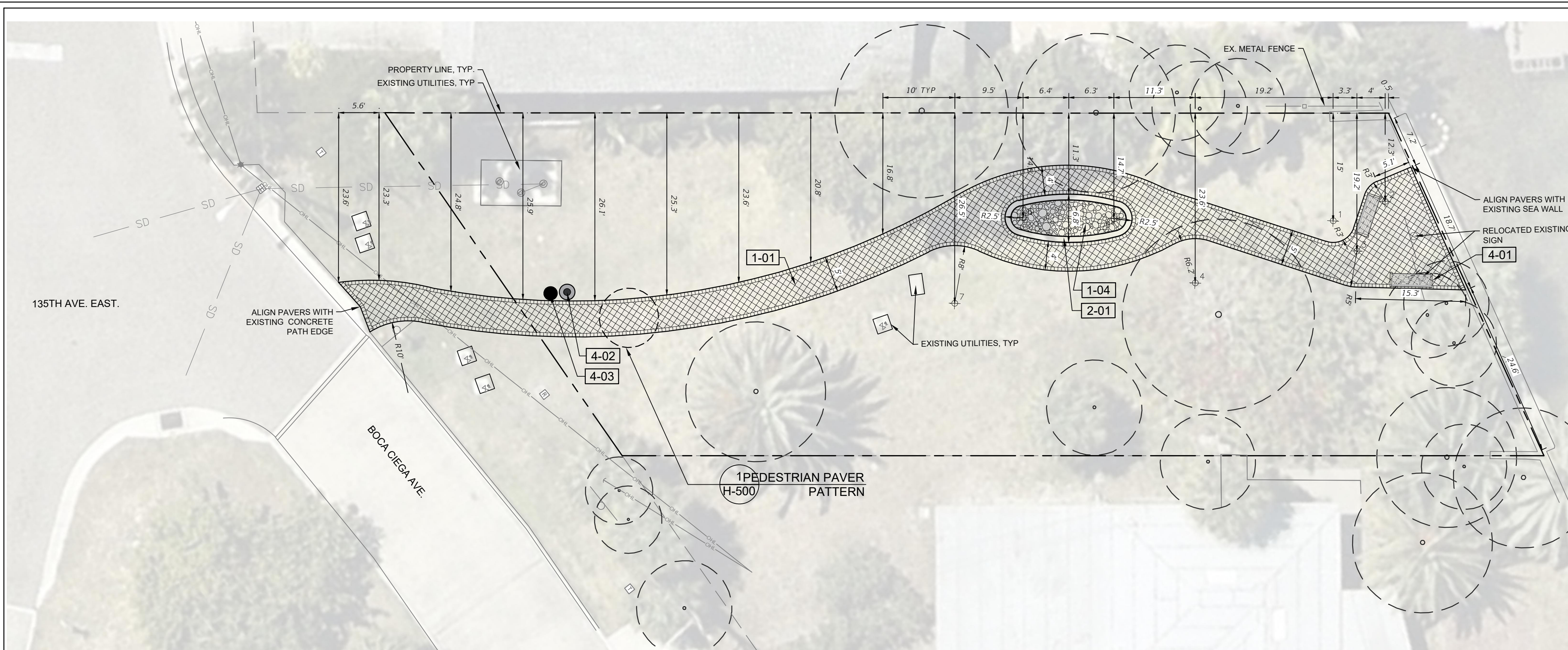
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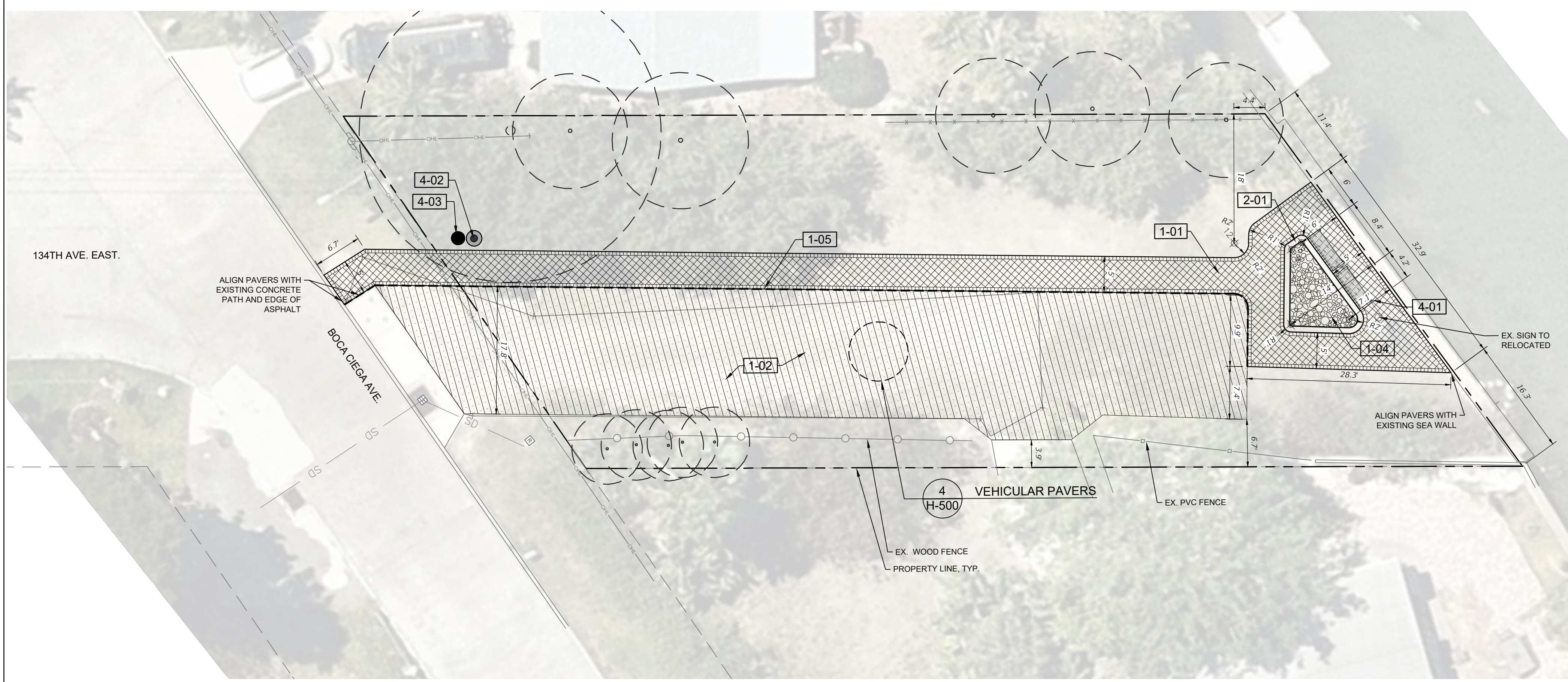
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ISSUED: OCTOBER 2023
DRAWN BY: IG
CHECKED BY: LMD
SCALE: 1" = 80'
SHEET TITLE

OVERALL SITE PLAN & GENERAL NOTES

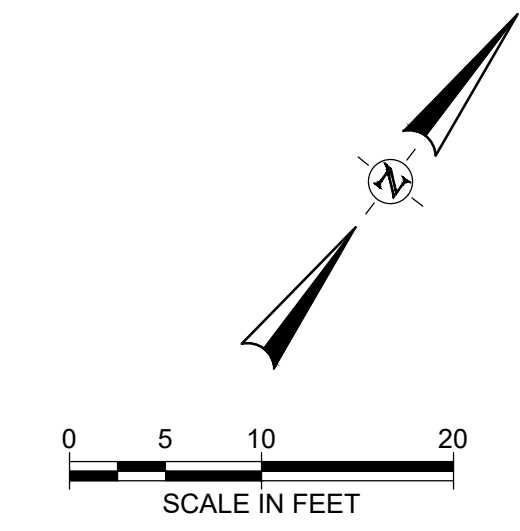
H-100



1 135TH AVE. EAST



2 134TH AVE. EAST



REFERENCE NOTES SCHEDULE

SYMBOL	DESCRIPTION	DETAIL
	1 PAVEMENTS, CURBS & RAMPS PEDESTRIAN PAVERS - BELGARD APPIAN STONE, NAPOLI FINISH	3H-500
	VEHICULAR PAVERS - BELGARD APPIAN STONE, NAPOLI FINISH	4H-500
	PARKING VEHICULAR PAVERS - BELGARD APPIAN STONE, FIELD WITH NAPOLI FINISH, BORDER AND STRIPING PARKING WITH SLATE FINISH	2H-500
	CRUSHED SHELL ROCK - SHELL FINES 1/8" - 1/2" TRIPLE WASHED AND UNIFORMLY SPRED, 3" WETTED DEPTH	
	ISOLATION JOINT	
	CONCRETE MOW CURB	6H-500
	2 STEPS, WALLS & EMBANKMENTS BLOCK WALL WITH CAP - BELGARD CASTLEMANOR, NAPOLI FINISH	5H-500
	4 SITE FURNISHINGS BENCH - POLYWOOD VINEYARD 48" BENCH, PROVIDED BY CITY OF MADEIRA BEACH	7H-500
	MOUNTING TRASH RECEPTACLE, 32 GALLON, 26.75" DIA. X 28.75" HT, RECYCLED PLASTIC MATERIAL, PROVIDED BY CITY OF MADEIRA BEACH	8H-500
	PET WASTE STATION - PET WASTE ELIMINATOR, 12" X 18" ALUMINUM SIGN; DISPENSER BOX; 10 GAL WASTE RECEPTACLE WITH ATTACHED LID; (3) MOUNTING HARDWARE SETS EACH SET INCLUDES: (2) NUTS, BOLTS AND WASHERS, PROVIDED BY CITY OF MADEIRA BEACH	9H-500

POCKET PARKS

CITY OF MADEIRA BEACH
MADEIRA BEACH, FL.



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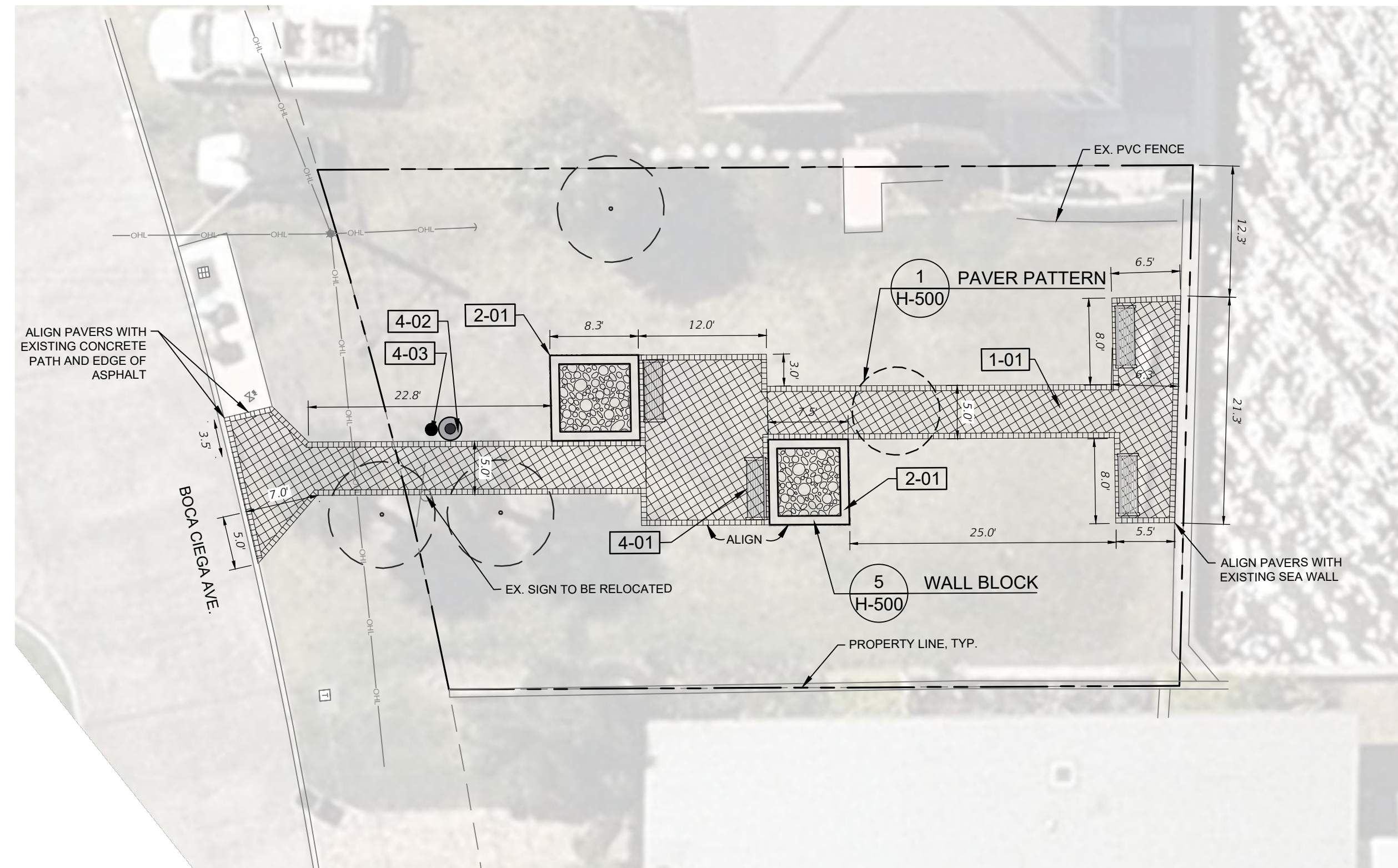
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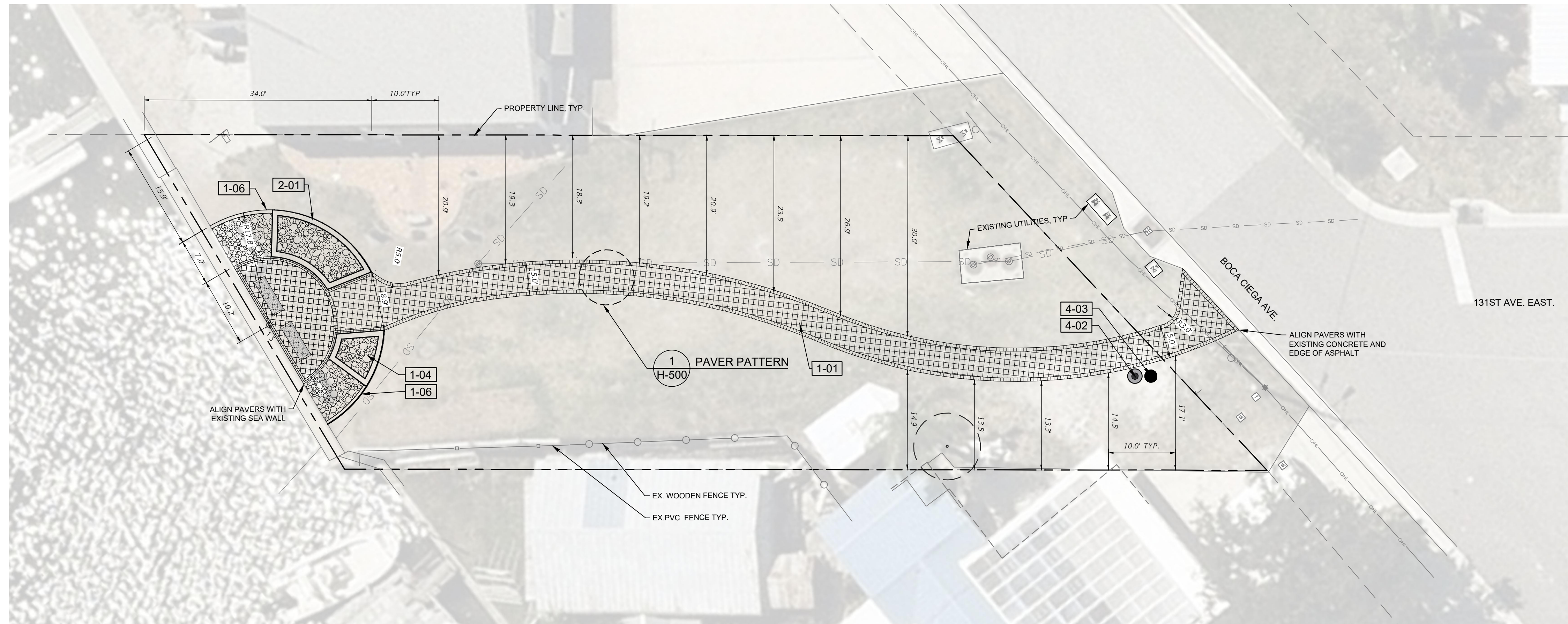
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HARDSCAPE PLANS

H-101

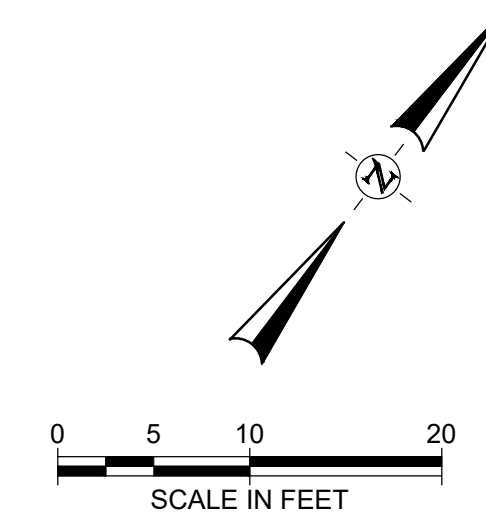
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3 132ND AVE. EAST



4 131ST AVE. EAST



REFERENCE NOTES SCHEDULE

SYMBOL	DESCRIPTION	DETAIL
1 PAVEMENTS, CURBS & RAMPS		
1-01	PEDESTRIAN PAVERS - BELGARD APPIAN STONE, NAPOLI FINISH	3/H-500
1-02	VEHICULAR PAVERS - BELGARD APPIAN STONE, NAPOLI FINISH	4/H-500
1-03	PARKING VEHICULAR PAVERS - BELGARD APPIAN STONE, FIELD WITH NAPOLI FINISH, BORDER AND STRIPING PARKING WITH SLATE FINISH	2/H-500
1-04	CRUSHED SHELL ROCK, SHELL FINES 1/8" - 1/2" TRIPLE WASHED AND UNIFORMLY SPRED, 3" WETTED DEPTH	
1-05	ISOLATION JOINT	
1-06	CONCRETE MOW CURB	6/H-500
2 STEPS, WALLS & EMBANKMENTS		
2-01	BLOCK WALL WITH CAP - BELGARD CASTLEMANOR, NAPOLI FINISH	5/H-500
4 SITE FURNISHINGS		
DESCRIPTION		
4-01	BENCH - POLYWOOD VINEYARD 48" BENCH, PROVIDED BY CITY OF MADEIRA BEACH	7/H-500
4-02	MOUNTING TRASH RECEPTACLE, 32 GALLON, 26.75" DIA. X 28.75" HT, RECYCLED PLASTIC MATERIAL, PROVIDED BY CITY OF MADEIRA BEACH	8/H-500
4-03	PET WASTE STATION - PET WASTE ELIMINATOR, 12" X 18" ALUMINUM SIGN; DISPENSER BOX; 10 GAL. WASTE RECEPTACLE WITH ATTACHED LID; (3) MOUNTING HARDWARE SETS EACH SET INCLUDES: (2) NUTS, BOLTS AND WASHERS, PROVIDED BY CITY OF MADEIRA BEACH	9/H-500

POCKET PARKS

CITY OF MADEIRA BEACH
MADEIRA BEACH, FL.

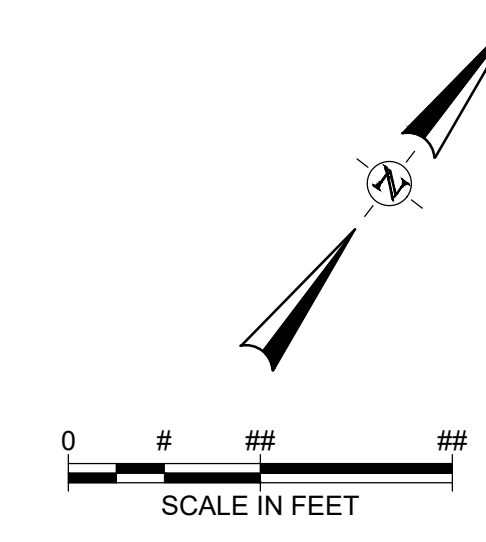
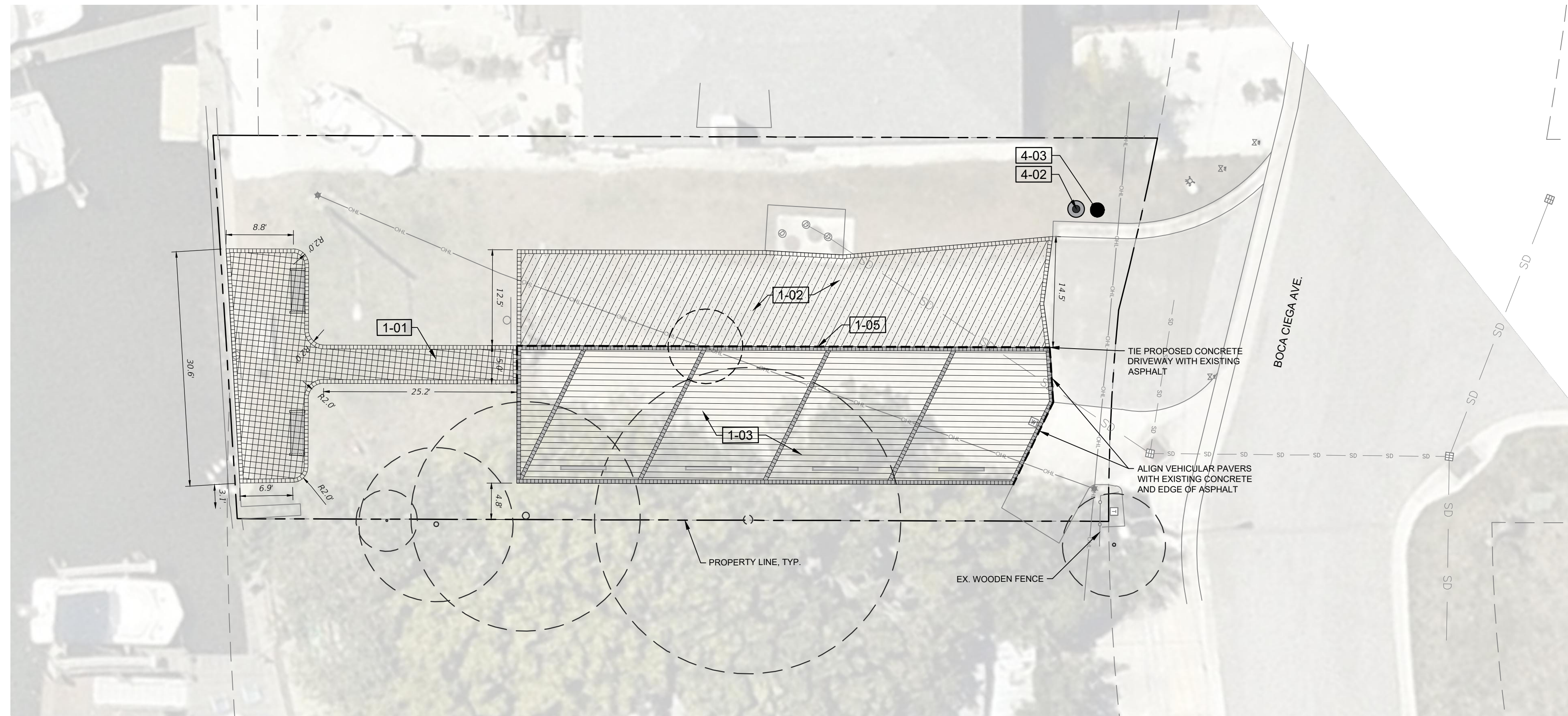


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CHECKED BY:	LMD
SCALE:	1" = 10'
SHEET TITLE	

HARDSCAPE PLAN
H-102



REFERENCE NOTES SCHEDULE

SYMBOL	DESCRIPTION	DETAIL
1 PAVEMENTS, CURBS & RAMPS		
1-01	PEDESTRIAN PAVERS - BELGARD APPIAN STONE, NAPOLI FINISH	3H-500
1-02	VEHICULAR PAVERS - BELGARD APPIAN STONE, NAPOLI FINISH	4H-500
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1-04	CRUSHED SHELL ROCK, SHELL FINES 1/8" - 1/2" TRIPLE WASHED AND UNIFORMLY SPRED, 3" WETTED DEPTH	
1-05	ISOLATION JOINT	
1-06	CONCRETE MDW CURB	6H-500
2 STEPS, WALLS & EMBANKMENTS		
2-01	BLOCK WALL WITH CAP - BELGARD CASTLEMANOR, NAPOLI FINISH	5H-500
4 SITE FURNISHINGS		
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4-03	PET WASTE STATION - PET WASTE ELIMINATOR, 12" X 18" ALUMINUM SIGN, DISPENSER BOX, 10 GAL. WASTE RECEPTACLE WITH ATTACHED LID, (3) MOUNTING HARDWARE SETS EACH SET INCLUDES: (2) NUTS, BOLTS AND WASHERS. PROVIDED BY CITY OF MADEIRA BEACH	9H-500

5 132ND AVE. EAST

FILE NAME: A:\380006\38545\01\1\ACADD\Sheets\H-BASE-HARD-38545\01.dwg DATE: January 9, 2024, TIME: 9:45 AM, USER: ah4596



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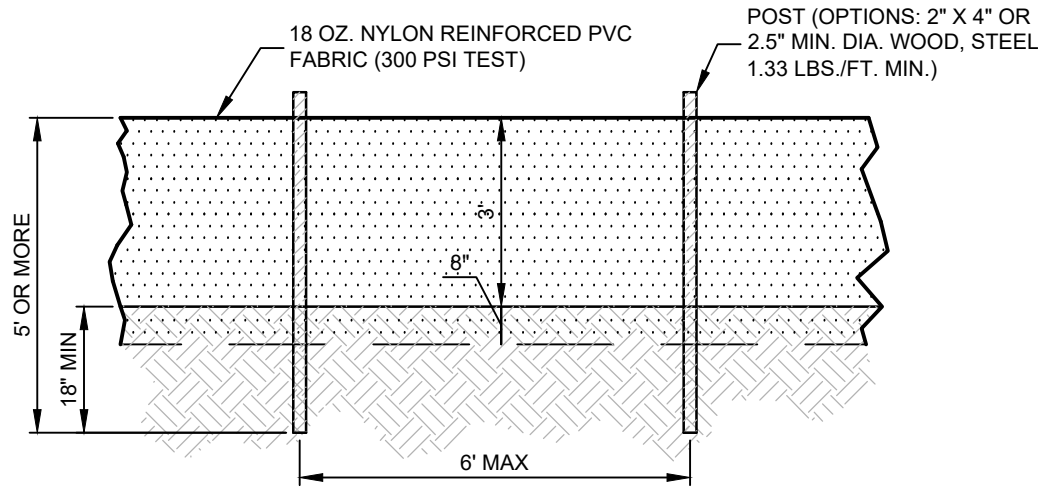
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MARTIN STEFFEN, FLA 6667386
NAME LICENSE NO.

1/9/2024
DATE

26000636 FL
FIRM / BUSINESS NO. STATE

PROJECT NO.: 38545.001
ISSUED: OCTOBER 2023
DRAWN BY: IG
CHECKED BY: LMD
SCALE: 1" = 10'
SHEET TITLE
HARDSCAPE PLAN
H-103



EROSION CONTROL & SEDIMENTATION CONTROL DEVICES:

- REFER TO LATEST EDITION OF FDOT "ROADWAY AND TRAFFIC DESIGN STANDARDS" INDEX NO. 103 FOR ADDITIONAL DETAILS AND SPECIFICATIONS
- CONTRACTOR SHALL INSTALL EROSION CONTROL DEVICES PRIOR TO ANY OTHER CONSTRUCTION ACTIVITIES. THE DEVICE SHALL BE INSTALLED IN THE LOCATIONS ON THE DRAWINGS AND ANYWHERE ELSE THERE IS A POTENTIAL FOR EROSION AS SEDIMENT TO EXIT THE WORK AREA.
- CONTRACTOR SHALL INSPECT INSTALLED EROSION CONTROL DEVICE WEEKLY DURING CONSTRUCTION AND AFTER HEAVY RAINS FOR DAMAGE. MAINTENANCE SHALL INCLUDE CLEANING BUILT-UP SEDIMENT BEHIND THE BARRIERS AND/OR REPLACING DAMAGED SECTIONS.
- THE EROSION CONTROL DEVICE SHALL BE MAINTAINED BY THE CONTRACTOR UNTIL A PERMANENT STAND OF GRASS (OR OTHER PERMANENT STABILIZATION) IS ESTABLISHED.

EROSION / TURBIDITY CONTROL NOTES:

- THE INSTALLATION OF TEMPORARY EROSION CONTROL BARRIERS SHALL BE COORDINATED WITH THE CONSTRUCTION OF THE PERMANENT EROSION CONTROL FEATURES TO THE EXTENT NECESSARY TO ASSURE ECONOMICAL, EFFECTIVE AND CONTINUOUS CONTROL OF EROSION AND WATER POLLUTION THROUGHOUT THE LIFE OF THE CONSTRUCTION PHASE.
- THE TYPE OF EROSION CONTROL BARRIERS USED SHALL BE GOVERNED BY THE NATURE OF THE CONSTRUCTION OPERATION AND SOIL TYPE THAT WILL BE EXPOSED. SILTY AND CLAYEY MATERIAL USUALLY REQUIRE SOLID SEDIMENT BARRIERS TO PREVENT TURBID WATER DISCHARGE, WHILE SANDY MATERIAL MAY NEED ONLY SILT SCREENS OR HAY BALES TO PREVENT EROSION. FLOATING TURBIDITY CURTAINS SHALL BE USED IN OPEN WATER SITUATIONS. DIVERSION DITCHES OR SWALES MAY BE REQUIRED TO PREVENT TURBID STORM WATER RUNOFF FROM BEING DISCHARGED TO WETLANDS OR OTHER WATER BODIES. IT MAY BE NECESSARY TO EMPLOY A COMBINATION OF BARRIERS, DITCHES AND OTHER EROSION/TURBIDITY CONTROL MEASURES IF CONDITIONS WARRANT.
- THE CONTRACTOR SHALL SCHEDULE HIS OPERATIONS SUCH THAT THE AREA OF UNPROTECTED ERODIBLE EARTH EXPOSED AT ANY ONE TIME IS NOT LARGER THAN THE MINIMUM AREA NECESSARY FOR EFFICIENT CONSTRUCTION OPERATIONS, AND THE DURATION OF EXPOSED, UNCOMPLETED CONSTRUCTION TO THE ELEMENTS SHALL BE AS SHORT AS PRACTICABLE AND GRUBBING SHALL BE SO SCHEDULED AND PERFORMED THAT GRADING OPERATIONS CAN FOLLOW IMMEDIATELY THEREAFTER, AND GRADING OPERATIONS SHALL BE SCHEDULED AND PERFORMED THAT PERMANENT EROSION CONTROL FEATURES CAN FOLLOW IMMEDIATELY THEREAFTER IF CONDITIONS ON THE PROJECT PERMIT.
- THE CONTRACTOR PROVIDE ROUTINE MAINTENANCE OF PERMANENT AND TEMPORARY EROSION CONTROL FEATURES UNTIL THE PROJECT IS COMPLETE AND ALL BARED SOILS ARE STABILIZED.
- ALL GREEN AND/OR DISTURBED AREAS TO BE SODDED/RESODDED TO MATCH EXISTING TURF SPECIES, UNLESS OTHERWISE NOTED.
- ANY SOD PLACED ON SLOPES EXCEEDING 3:1 TO BE ANCHORED BY STAKES, NETS, AND/OR OWNER'S REPRESENTATIVE WRITTEN APPROVED METHOD.
- REQUIRED TREE BARRICADES AND EROSION CONTROL MUST REMAIN INTACT THROUGHOUT CONSTRUCTION. ENCROACHMENT INTO OR FAILURE TO MAINTAIN THESE BARRICADES WILL RESULT IN ENFORCEMENT ACTION WHICH MAY INCLUDE CITATIONS AND/OR PERMIT REVOCATION AS PROVIDED BY LOCAL JURISDICTION.
- ROOT PRUNING SHALL BE CONDUCTED AFTER STAKING FOR, AND PRIOR TO INSTALLATION OF SILT FENCE, A CERTIFIED ARBORIST, INTERNATIONAL SOCIETY OF ARBORICULTURE-CERTIFIED, SHALL CONDUCT OR OVERSEE ROOT PRUNING ACTIVITIES. THE CERTIFIED ARBORIST SHALL DETERMINE SPECIFIC EQUIPMENT AND METHODS TO BE USED. THE CERTIFIED ARBORIST SHALL REVIEW ROOT PRUNING SHOWN ON THE PLANS, AND SHALL VERIFY OR MODIFY AS NEEDED THE LIMITS AND LOCATIONS OF ROOT PRUNING TO MINIMIZE IMPACTS TO AFFECTED TREES. THE CERTIFIED ARBORIST SHALL RECOMMEND ANY ASSOCIATED TREATMENTS SUCH AS FERTILIZERS, FUNGICIDES, PESTICIDES, ETC. TO THE OWNER FOR REVIEW AND APPROVAL.

SITE DEMOLITION NOTES:

- ALL MATERIALS TO BE DEMOLISHED INCLUDING BUT NOT LIMITED TO PLANT MATERIAL, HARDSCAPE BASE MATERIAL, CONCRETE, AND OVERHEAD STRUCTURE SHALL BE REMOVED FROM SITE AND DISPOSED OF IN A LAWFUL MANNER.
- EXISTING TREES THAT ARE SHOWN TO REMAIN, SHALL MAINTAIN PROTECTIVE BARRIERS AT ALL TIMES. REFER TO DETAIL BELOW.
- THE CONTRACTOR SHALL LOCATE ALL EXISTING UTILITIES PRIOR TO DEMOLITION AND WILL BE RESPONSIBLE FOR THE DAMAGE OF ANY ON-SITE OR OFF-SITE UTILITIES THAT ARE NOT A PART OF THIS PROJECT OR ARE NOT IDENTIFIED TO BE REMOVED. CONTRACTOR SHALL REPAIR ANY DAMAGED IRRIGATION LINES, IRRIGATION APPENDICES, UTILITIES, AND STORM PIPES NOT IDENTIFIED TO BE REMOVED TO THEIR PRE-CONSTRUCTION CONDITION.
- THE CONTRACTOR SHALL BARRICADE THE SITE AND PROPERLY CONTROL TRAFFIC.
- EXISTING SITE FURNITURE SHALL BE RELOCATED OUTSIDE OF CONSTRUCTION LIMITS SHOWN ON PLANS. THE CONTRACTOR SHALL EXERCISE CAUTION NOT TO DAMAGE AND SHALL PRESERVE ALL EXISTING SITE FURNITURE. DAMAGED SITE FURNITURE SHALL BE REPLACED AT THE CONTRACTOR EXPENSE WITH LIKE FURNISHINGS OR APPROVED EQUAL. EXACT POINT(S) OF RELOCATION AND/OR REPLACEMENT SHALL BE COORDINATED WITH THE OWNER'S REPRESENTATIVE.

NOTES:

1- SEE SPECIFICATIONS FOR ADDITIONAL TREE PROTECTION REQUIREMENTS.

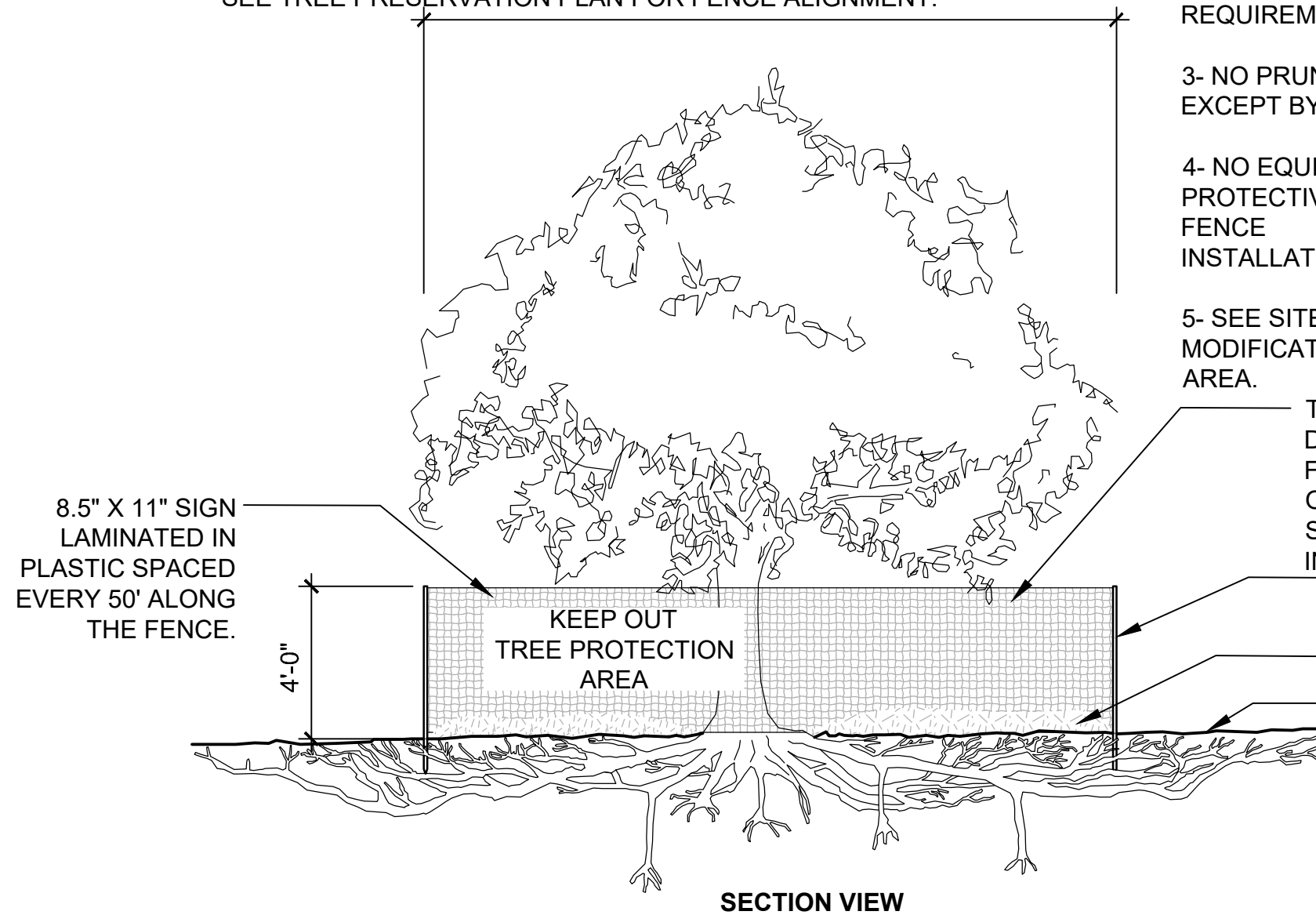
2- IF THERE IS NO EXISTING IRRIGATION, SEE SPECIFICATIONS FOR WATERING REQUIREMENTS.

3- NO PRUNING SHALL BE PERFORMED EXCEPT BY APPROVED ARBORIST.

4- NO EQUIPMENT SHALL OPERATE INSIDE THE PROTECTIVE FENCING INCLUDING DURING INSTALLATION AND REMOVAL.

5- SEE SITE PREPARATION PLAN FOR ANY MODIFICATIONS WITH THE TREE PROTECTION AREA.

CROWN DRIP LINE OR OTHER LIMIT OF TREE PROTECTION AREA. SEE TREE PRESERVATION PLAN FOR FENCE ALIGNMENT.



TREE PROTECTION FENCE: HIGH DENSITY POLYETHYLENE FENCING WITH 3.5" X 1.5" OPENINGS; COLOR- ORANGE. STEEL POSTS INSTALLED AT 8' O.C. 2" X 8" STEEL POSTS OR APPROVED EQUAL.

5" THICK LAYER OF MULCH. MAINTAIN EXISTING GRADE WITH THE TREE PROTECTION FENCE UNLESS OTHERWISE INDICATED ON THE PLANS.

HARDSCAPE NOTES:

- ALL MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH CITY OF MADEIRA BEACH REQUIREMENTS.
- CONTRACTOR SHALL PROTECT EXISTING BLOCK WALL FACE AND CONCRETE DURING CONSTRUCTION TO PREVENT CHIPPING, CONCRETE SPLATTER, CRACKING, TOPPLING, AND ANY OTHER STRUCTURAL OR AESTHETIC DEFECTS.
- ALL EARTHWORK, PLACEMENT OF FILL AND PAVEMENT PREPARATION TO CONFORM TO THE MORE STRICT OF CITY OF MADEIRA BEACH FOR TECHNICAL SPECIFICATIONS, FDOT STANDARD SPECIFICATIONS, OR THE OWNER'S REPRESENTATIVE'S RECOMMENDATIONS.
- ALL DELETERIOUS SUBSURFACE MATERIAL (I.E. MUCK, PEAT, BURIED DEBRIS) IS TO BE EXCAVATED IN ACCORDANCE WITH THESE PLANS OR AS DIRECTED BY THE OWNER'S REPRESENTATIVE. DELETERIOUS MATERIAL IS TO BE REMOVED AND DISCARDED FROM THE SITE IN A LAWFUL MANNER. EXCAVATED AREAS TO BE BACK FILLED WITH APPROVED MATERIALS AND COMPACTED AS DETAILED ON THESE PLANS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING EXCAVATIONS AGAINST COLLAPSE AND SHALL PROVIDE BRACING, SHEETING OR SHORING AS NECESSARY. DEWATERING METHODS SHALL BE USED AS REQUIRED TO KEEP TRENCHES DRY WHILE PIPE AND APPURTENANCES ARE BEING PLACED.
- ANY UNDERGROUND UTILITIES INCLUDING CONDUIT FOR ELECTRICAL, IRRIGATION LINES AND SLEEVING, CABLE TV AND TELEPHONE CROSSINGS SHALL BE INSTALLED PRIOR TO PAVEMENT CONSTRUCTION. CONTRACTOR TO COORDINATE INSTALLATION OF ANY ADDITIONAL CONDUIT LOCATIONS WITH OWNER.
- ALL CURB CUT RAMPS TO BE CONSTRUCTED PER FLORIDA DEPARTMENT OF TRANSPORTATION STANDARDS (FDOT INDEX 304) AND BE ADA COMPLIANT INCLUDING USE OF TRUNCATED DOME TACTILE SURFACE. TERMINATION OF CURB SHALL INCLUDE A 3' TRANSITION TO FLUSH UNLESS OTHERWISE NOTED ON THE PLANS.
- SLOPES, SLOPE DIRECTION, AND HIGH POINTS HAVE BEEN PROVIDED FOR INFORMATIONAL PURPOSES ONLY. FINAL GRADE ELEVATIONS ARE TO BE DETERMINED BY CONTRACTOR. IN GENERAL ALL NEWLY POURED CONCRETE SHALL BE 6" HIGHER THAN DEMOLISHED CONCRETE CREATING A SMOOTH TRANSITION. HIGH POINTS, AND SWALES MAY BE CREATED TO DIVERT WATER IN AN EFFICIENT MANNER. CROSS SLOPES SHALL NOT BE GREATER THAN 1:5% ON HARDSCAPES. CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING POSITIVE SLOPES AND DRAINAGE TO PREVENT POOLING OF WATER WITHIN AND ADJACENT TO HARDSCAPE AREAS.
- CONTRACTOR SHALL RE-ESTABLISH SMOOTH TRANSITION TO SURROUNDING SODDED AREAS. ADDITIONAL GRADING AND SODDING MAY BE REQUIRED TO ESTABLISH TRANSITION. FINISHED GRADE OF SURROUNDING SODDED AREA TO BE 2" BELOW FINISHED HARDSCAPE. CONTRACTOR IS RESPONSIBLE FOR ENSURING STANDING WATER DOES NOT OCCUR WHERE PROPOSED HARDSCAPE EDGE MEETS TURF/SOD OR ANYWHERE ELSE ON SITE NOT INTENDED TO HOLD WATER.
- CONTRACTOR SHALL COORDINATE WITH AWNING WORKS TO VERIFY LOCATION OF FOOTERS AND OVERHEAD STRUCTURE PRIOR TO INSTALLATION OF ANY PAVING/HARDSCAPE MATERIALS.
- COMPACTED SUB-GRADE SHALL BE MECHANICALLY MIXED TO THE SPECIFIED DEPTH PRIOR TO GRADING, COMPACTION, AND TESTING.
- CONTRACTOR SHALL SAW CUT AND PROVIDE CONSTRUCTION JOINT AT LOCATIONS WHERE NEW PAVEMENT MEETS EXISTING PAVEMENT.
- CONTRACTOR IS RESPONSIBLE FOR PROTECTING EXISTING WALL DURING ALL CONCRETE INSTALLATION ACTIVITIES.
- CONTRACTOR TO UTILIZE SAME PAVEMENT BASE OPTION MATERIAL FOR ALL PAVING WITHIN PROJECT.
- CONCRETE PAVING TO BE 4" DEPTH AND 3500 PSI WITH FIBER REINFORCEMENT. BASE TO BE 6" COMPACTED SUBGRADE AT 98% COMPACTION (AASHTO T-99).
- PROVIDE SAMPLES OF CONCRETE MATERIAL AND FINISHING TECHNIQUES TO OWNER'S REPRESENTATIVE PRIOR TO ORDERING. FINAL APPROVAL FROM OWNER'S REPRESENTATIVE IS REQUIRED PRIOR TO INSTALLATION.

PLANTER NOTES:

- THE CONTRACTOR SHALL MAINTAIN AND PROTECT FROM MUD, DIRT, DEBRIS, ETC. THE STORM DRAINAGE SYSTEM UNTIL FINAL ACCEPTANCE OF THE PROJECT. THE CONTRACTOR MAY BE REQUIRED TO RECLEAN PIPES AND INLETS FOR THESE PURPOSES.
- CONTRACTOR SHALL FURNISH ALL MATERIALS AND CONSTRUCT BLOCK RETAINING WALLS USING GEOGRID REINFORCEMENT AND MODULAR BLOCKS. PREPARE FOUNDATION SOIL, FURNISH AND INSTALL LEVELING PAD AND DRAINAGE FILL PER MANUFACTURER'S RECOMMENDATIONS.
- FOR BIDDING PURPOSES ONLY, CONTRACTOR SHALL ASSUME: "BELGARD CASTLEMANOR, NAPOLI FINISH". WALL CAP TO BE 12"X10"X3" "BELGARD CASTLEMANOR, NAPOLI FINISH". BLOCK FACE TO BE SINGLE OR STRAIGHT PLANE CONFIGURATION (NO ANGLES). BOND CONFIGURATION SHALL BE RUNNING BONDS MINIMALLY LOCATED AT MIDPOINT VERTICALLY OF ADJACENT UNITS. CONTRACTOR SHALL ENSURE EXPOSED SURFACES BE FREE OF CHIPS, CRACKS AND OTHER VISIBLE IMPERFECTIONS. THE OVERALL ANTICIPATED WALL LENGTH IS SHOWN IN THE PLANS. CONTRACTOR SHALL DETERMINE THE QUANTITIES OF ALL ANCILLARY ITEMS INCLUDING, BUT NOT LIMITED TO, WALL UNITS, GEOGRID, FILTER FABRIC, CRUSHED STONE SAND, BACKFILL, SURVEY, ENGINEERING, EQUIPMENT AND LABOR AND INCLUDE ALL COSTS ASSOCIATED WITH THE WALL CONSTRUCTION IN THE LUMP SUM COST OF THE PROJECT. CONTRACTOR SHALL COORDINATE FINAL COLOR, WALL CAP, AND FACE FINISH WITH OWNER'S REPRESENTATIVE.
- SUBMIT COMPLETE WORKING DRAWINGS, CALCULATIONS, AND SPECIFICATIONS FOR THE INSTALLATION OF THE RETAINING/SEAT WALL. INCLUDE THE FOLLOWING, AT A MINIMUM: DETAILS AND DIMENSIONS FOR ALL ELEMENTS, COMPONENTS AND APPURTENANCES.
- WALL CONSTRUCTION SHALL BE BASED ON NATIONAL CONCRETE MASONRY ASSOCIATION DESIGN GUIDELINES FOR SEGMENTAL RETAINING WALLS. DESIGN MUST ALSO BE IN COMPLIANCE WITH FLORIDA BUILDING CODE (LATEST EDITION) AND THE CITY OF MADEIRA BEACH.
- ALL BACKFILL SOIL AND SUB-SURFACE SHALL BE PREPARED TO MEET THE REQUIREMENTS OF MANUFACTURER'S RECOMMENDATIONS.
- ALL FEATURES OF THE SYSTEM FURNISHED, INCLUDING PRECAST ELEMENTS, FASTENERS, CONNECTIONS, SOIL REINFORCEMENTS, GEOGRID REINFORCEMENT, AND OTHER NECESSARY COMPONENTS, SHALL BE APPROVED BY THE OWNER'S REPRESENTATIVE.
- VISIBLE WALL HEIGHT (ABOVE GRADE) SHALL BE EIGHTEEN INCHES. HEIGHTS AND LENGTHS SHALL NOT BE LESS THAN THOSE SHOWN ON THE PLANS.
- PRIOR TO INSTALLATION, CONTRACTOR SHALL STAKE LOCATIONS AND LIMITS OF WALL TO REFLECT PLANS TO GREATEST EXTENT POSSIBLE. COORDINATE WITH OWNER'S REPRESENTATIVE TO REVIEW STAKING PRIOR TO INSTALLATION. PROVIDE A MINIMUM OF TWO BUSINESS DAYS NOTICE OF PROPOSED STAKING REVIEW. OWNER'S REPRESENTATIVE MAY DIRECT ADJUSTMENTS IN THE FIELD TO ENSURE NO CONFLICT WITH UTILITIES OR OTHER SITE FEATURES. NO CHANGES TO WALL LAYOUT WILL BE MADE WITHOUT THE OWNER'S REPRESENTATIVE'S APPROVAL.
- ANY SURVEY WORK REQUIRED TO LAY OUT WALLS WILL BE PROVIDED BY THE CONTRACTOR AND WILL BE INCLUDED IN THE LUMP SUM COST OF THE PROJECT.
- ALL UNSUITABLE MATERIAL SUCH AS ROCK, BRUSH AND ORGANIC SOIL SHALL BE REMOVED FROM BENEATH FOUNDATION. PREPARED SURFACE SHALL MEET OR EXCEED ALLOWABLE BEARING CAPACITY OF 2,000 POUNDS PER SQ. FT. AND VERIFIED BY CONTRACTOR'S ENGINEER PRIOR TO START OF LEVELING PAD CONSTRUCTION. ANY OVER-EXCAVATION OR REQUIRED FILL SHALL COMPLY WITH ASTM (D-1557).
- BACKFILL MATERIAL AND COMPACTION RATE SHALL BE PER THE MANUFACTURER'S RECOMMENDATION.
- FILTER FABRIC SHALL BE FDOT TYPE D-3, NON-WOVEN GEOTEXTILE. PROVIDE 12 INCH OVERLAP AT VERTICAL JOINTS AND 2 INCHES TURNING AT EACH LAYER OF GEOGRID.
- EXISTING SLOPE SHALL BE IMPACTED AS MINIMALLY AS IS FEASIBLE TO COMPLETE THE WORK.
- INSTALL FOUNDATION MATERIAL IN 2' LIFTS USING A VIBRATORY ROLLER OR PLATE COMPACTOR TO PROVIDE A UNIFORM COMPACTED FOUNDATION. ANY VOID ENCOUNTERED SHALL BE FILLED AND BROUGHT TO GRADE WITH COMPACTED GRANULAR MATERIAL CONFORMING TO THE MANUFACTURER'S SPECIFICATIONS FOR AGGREGATE BASE COURSE. IF APPROVED BY THE OWNER'S REPRESENTATIVE, A CONCRETE BASE COURSE MAY BE USED.
- USE CLEAN GRAVEL TO FILL OPENINGS IN, BETWEEN, AND BEHIND THE WALL UNITS.
- ALL SEGMENTAL BLOCK UNITS WITHIN THE LAST 3 FEET OF END OF EACH WALL WILL BE ATTACHED WITH ADHESIVE. IN ADDITION TO ANY OTHER STRUCTURAL MATERIALS RECOMMENDED BY THE MANUFACTURER, THE MINIMUM EMBEDMENT DEPTH MUST BE MAINTAINED AT THE END OF EACH WALL WHERE IT RETURNS AND STEPS UP INTO THE EXISTING EMBANKMENT SLOPE.
- ADDITIONAL WALL MATERIAL MAY BE REQUIRED TO MEET MANUFACTURER'S WALL END EMBANKMENT RECOMMENDATIONS. ANY ADDITIONAL MATERIAL AND LABOR TO MEET MANUFACTURER'S RECOMMENDATION SHALL BE INCLUDED IN THE BID.
- CONTRACTOR SHALL INSTALL GEOGRID SOIL REINFORCEMENT PER MANUFACTURER'S RECOMMENDATION.
- BACKFILL WILL BE PLACED FROM THE WALL REARWARD INTO THE EMBANKMENT TO ENSURE THAT THE GEOGRID REMAINS TAUT.
- TRACK MOUNTED CONSTRUCTION EQUIPMENT WILL NOT BE OPERATED DIRECTLY ON THE GEOGRID. A MINIMUM BACKFILL THICKNESS OF 6 INCHES IS REQUIRED PRIOR TO OPERATION OF TRACK MOUNTED VEHICLES OVER THE GEOGRID.
- RUBBER Tired EQUIPMENT MAY PASS OVER THE GEOGRID AT SLOW SPEED, LESS THAN 10 MPH. SUDDEN BRAKING AND SHARP TURNING SHALL BE AVOIDED.

10 TREE PROTECTION

3/16" = 1'-0"

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HDI-MA-05

POCKET PARKS

CITY OF MADEIRA BEACH

MADEIRA BEACH, FLORIDA



REVISION NO.	DATE	DESCRIPTION

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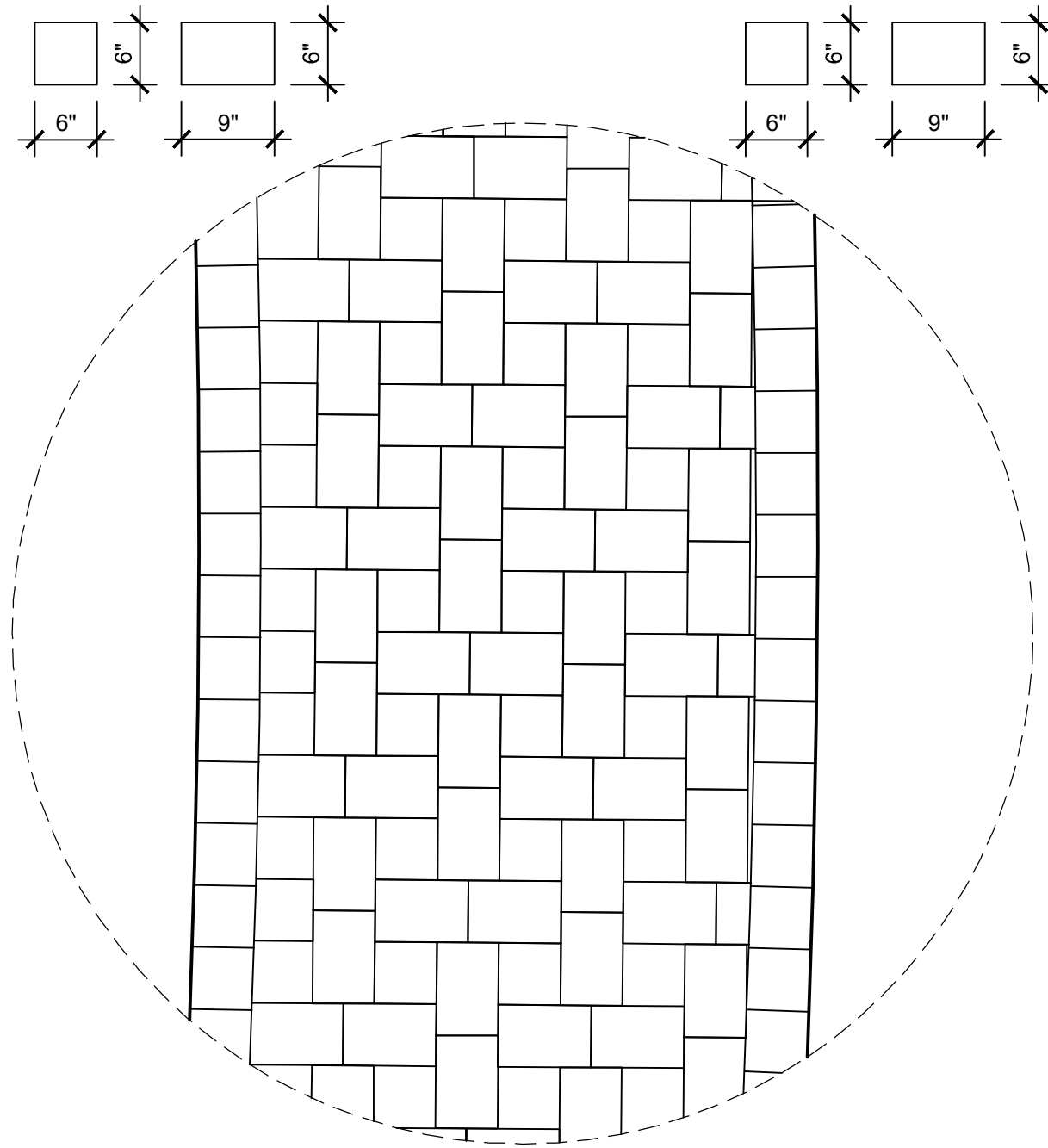
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HARDSCAPE NOTES

H-500

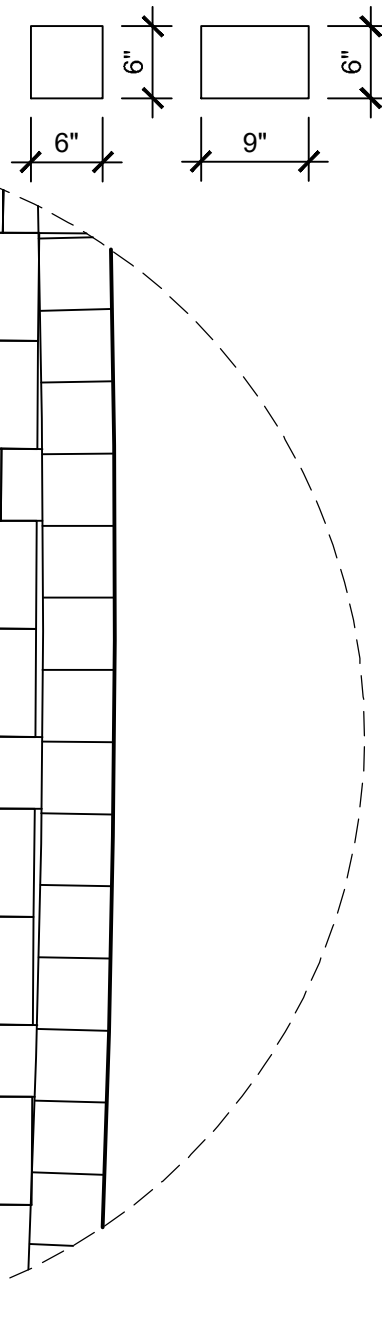
PEDESTRIAN PAVERS

APPIAN STONE
(2) PIECE - PATTERN B - BELGARD
40% 6" x 6" x 2 3/4"
60% 6" x 9" x 2 3/4"



VEHICULAR PAVERS

APPIAN STONE
(2) PIECE - PATTERN B - BELGARD
40% 6" x 6" x 3 1/2"
60% 6" x 9" x 3 1/2"



3 PEDESTRIAN PAVERS

1 1/2" = 1'-0"

4 VEHICULAR PAVERS

1 1/2" = 1'-0"

5 WALL BLOCK

3/4" = 1'-0"

PAVER NOTES:

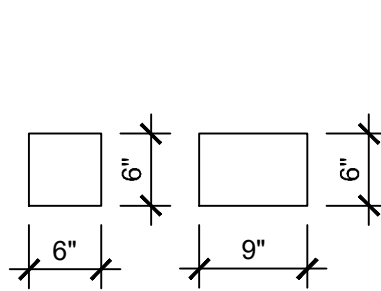
- CONTRACTOR TO INSTALL ALL PAVERS PER MANUFACTURER'S SPECIFICATIONS
- ALL AREAS OF PAVERS, AS SHOWN ON THE PLANS SHALL BE SET WITH FLUSH TOP SURFACE AND SHALL MAINTAIN A MINIMUM SLOPE OF 0.5% UNLESS OTHERWISE NOTED ON THE PLANS OR DETAILS.
- BEDDING SAND SHALL CONFORM TO THE GRADING REQUIREMENTS OF ASTM C33. MASON SAND IS NOT ACCEPTABLE. ALL BEDDING SAND SHALL BE SCREENED TO AN EVEN THICKNESS.
- ALL AREAS OF PAVERS SHALL COMPLY WITH CURRENT ADA (AMERICANS WITH DISABILITIES ASSOCIATION) REQUIRED FOR ACCESSIBLE ROUTES.
- ALL PAVERS "CUTS" SHALL BE MADE WITH A SPLITTER OR MASONRY SAW.

1 PEDESTRIAN PAVER PATTERN

3/4" = 1'-0"

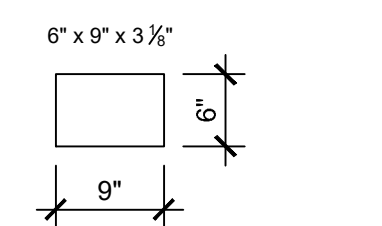
VEHICULAR PAVERS

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40% 6" x 6" x 3 1/2"
60% 6" x 9" x 3 1/2"

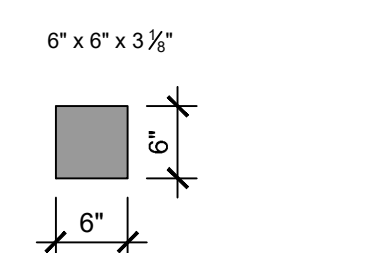


PARKING VEHICULAR PAVERS

FIELD: RUNNING BOND PATTERN
APPIAN STONE - NAPOLI FINISH
(1) PIECE
6" x 9" x 3 1/2"



BORDER: STACK BOND
APPIAN STONE - SLATE FINISH
6" x 6" x 3 1/2"



2 PARKING VEHICULAR PAVER PATTERN

3/4" = 1'-0"

6 CONCRETE MOW CURB

1 1/2" = 1'-0"



7 MOUNTING BENCH

3/4" = 1'-0"



8 TRASH RECEPTACLE

3/4" = 1'-0"



9 PET WASTE STATION

3/4" = 1'-0"



- SPECIFICATIONS**
- SUPERIOR KIT INCLUDES:**
- 12" x 18" ALUMINUM SIGN.
 - DISPENSER BOX.
 - 10 GAL WASTE RECEPTACLE WITH ATTACHED LID.
 - 3-MOUNTING HARDWARE SETS EACH SET INCLUDES: 2 NUTS, BOLTS AND WASHERS.
 - 80 PET WASTE BAGS.
 - 50 WASTE RECEPTACLE LINERS.

POCKET PARKS

CITY OF MADEIRA BEACH

MADEIRA BEACH, FLORIDA



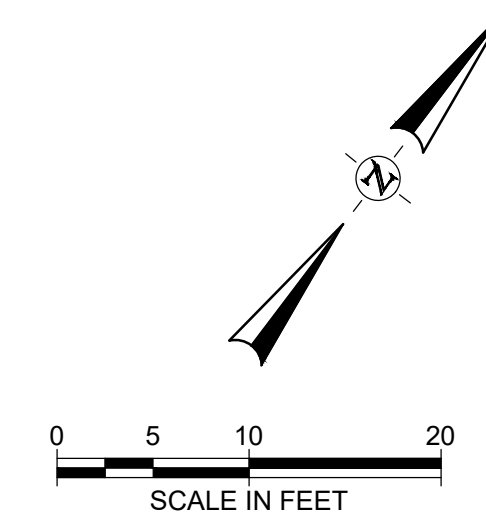
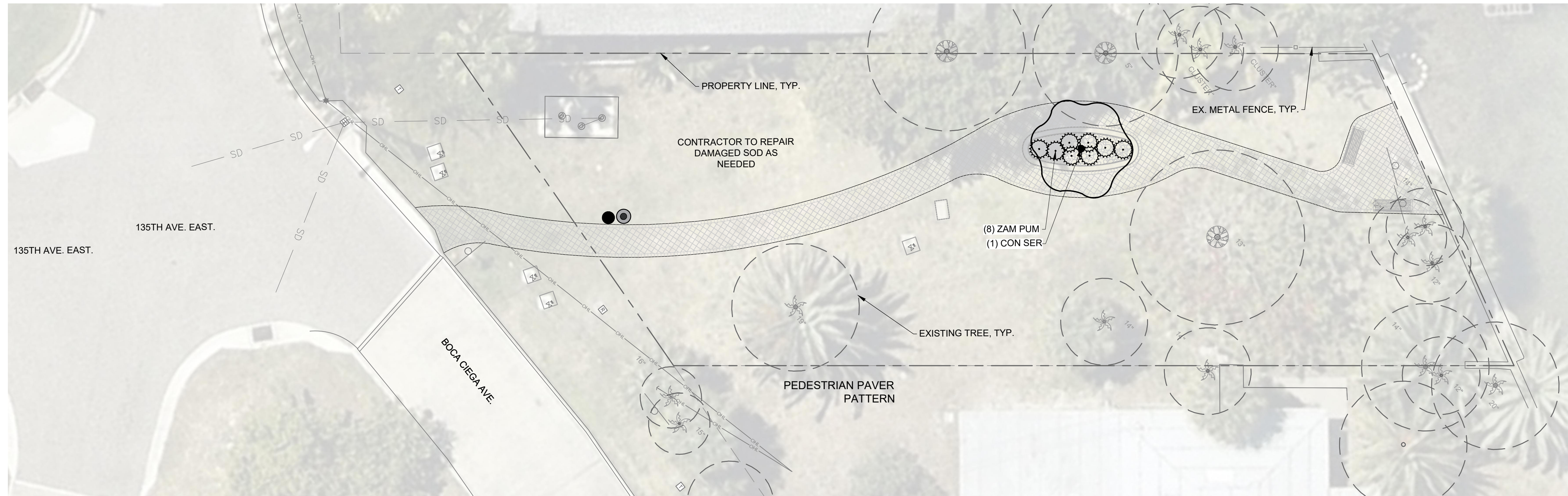
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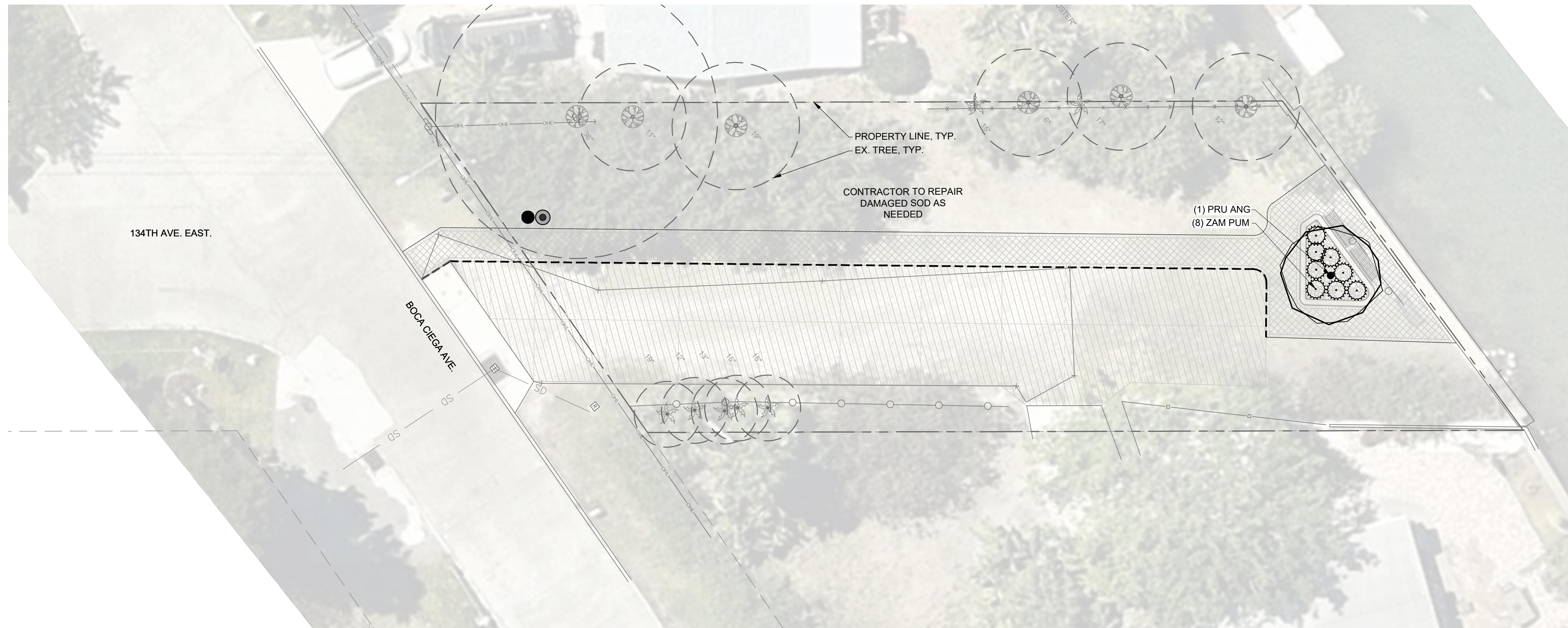
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HARDSCAPE DETAILS
H-501



1 135TH AVE. EAST



2 134TH AVE. EAST

POCKET PARKS

CITY OF MADEIRA BEACH
MADEIRA BEACH, FL.



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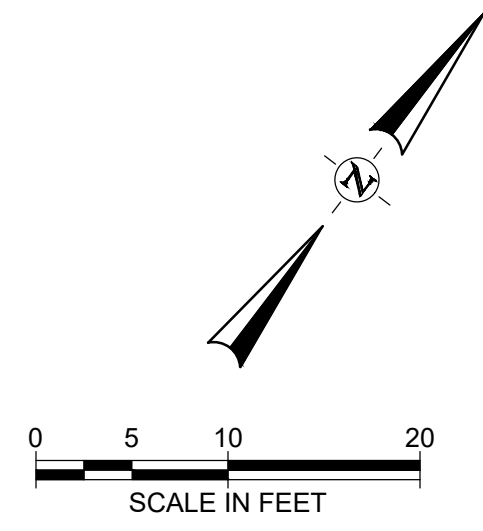
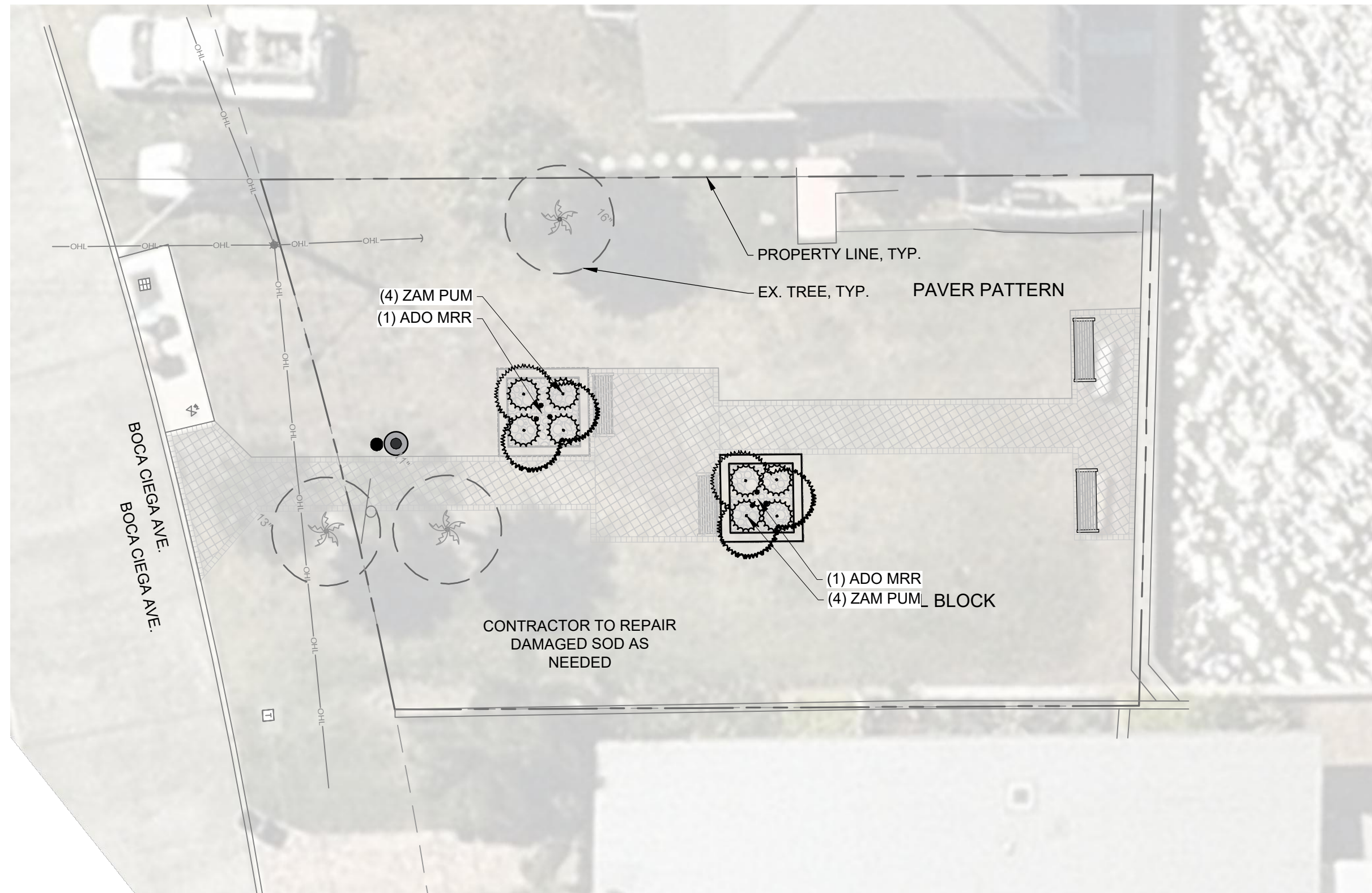
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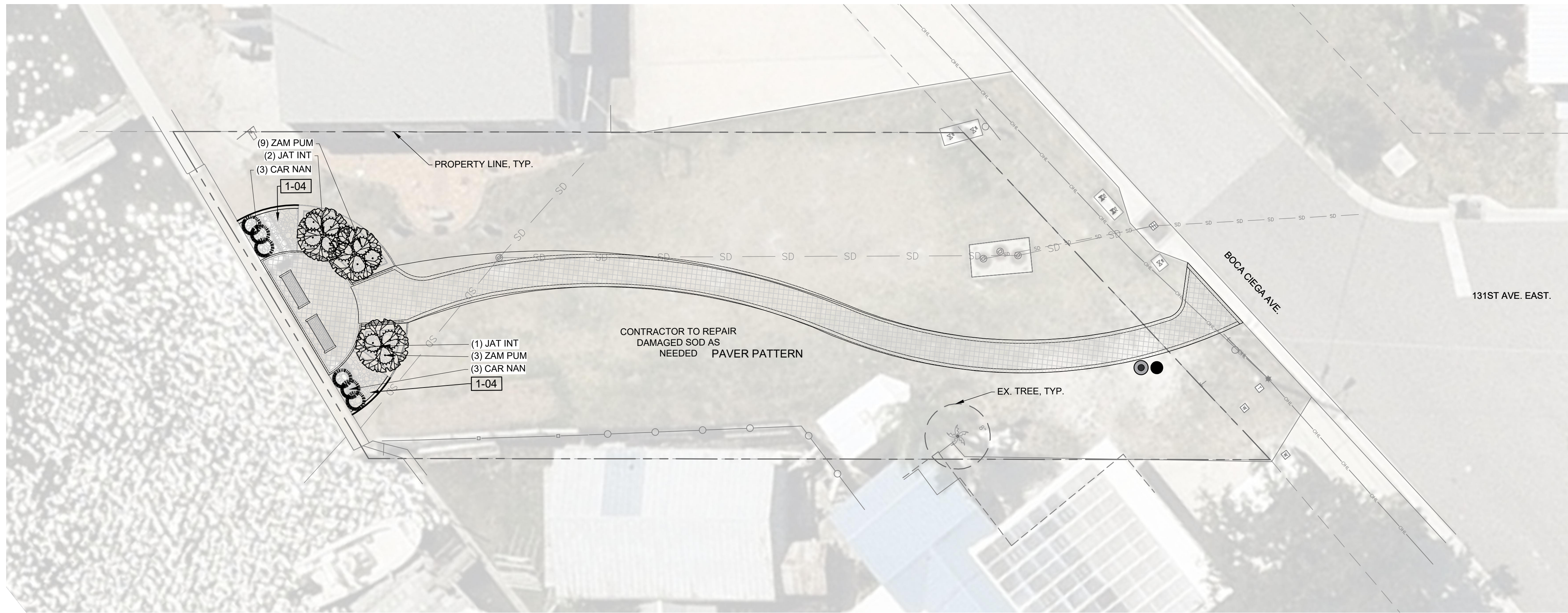
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PLANTING PLANS

L-101



3 132ND AVE. EAST



4 131ST AVE. EAST

FILE NAME: A:\380006\38545\01\1\ACADD\Sheets\L-BASE-LAND-38545.001.dwg DATE: January 9, 2024, TIME: 9:46 AM, USER: ah4598

POCKET PARKS
CITY OF MADEIRA BEACH
MADEIRA BEACH, FL.



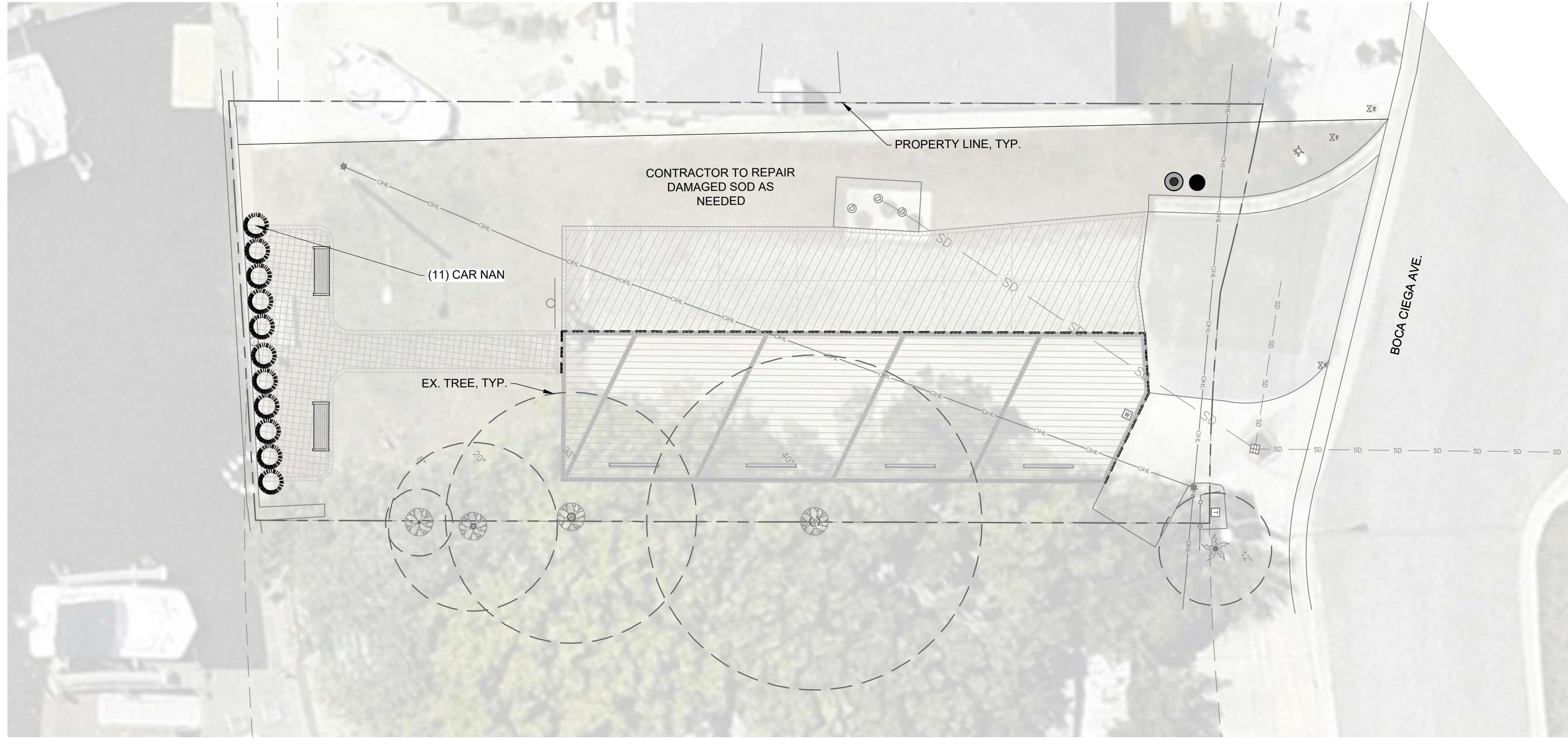
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DRAWN BY: IG
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SCALE: 1" = 10'
SHEET TITLE

PLANTING PLAN

L-102



5 132ND AVE. EAST

PLANTING SCHEDULE

SYMBOL	QTY	BOTANICAL / COMMON NAME	CONT	CAL	HT	REMARKS	REMARKS
TREES							
	1	CONOCARPUS ERECTUS F. SERICEUS / BUTTONWOOD	B&B	3" CAL	12'-14" HT	STANDARD TRUNK	
	1	PRUNUS ANGUSTIFOLIA / CHICKASAW PLUM	B&B	2" CAL	8' HT	STANDARD TRUNK	
PALMS							
	2	ADONIDIA MERRILLII / CHRISTMAS PALM	B&B		8' HT		FG, B&B, TRIPLE, 10'-12" HT
SYMBOL	QTY	BOTANICAL / COMMON NAME	CONT	SIZE			REMARKS
SHRUBS							
	17	CARISSA MACROCARPA 'NANA' / DWARF NATAL PLUM	3 GAL				3 GAL, 10"-12" HT, 18"-24" SPD, FULL
	3	JATROPHA INTEGERRIMA / JATROPHA	30 GAL				30 GAL, 5'-6" HT, 3'-4" SPD, STANDARD
	36	ZAMIA PUMILA / COONTIE	3 GAL				3 GAL, 12"-14" HT, 12"-14" SPD, FULL

POCKET PARKS

CITY OF MADEIRA BEACH
MADEIRA BEACH, FL.



REVISION NO.	DATE	DESCRIPTION

PRELIMINARY
FOR INTERIM REVIEW ONLY

THESE DOCUMENTS ARE FOR INTERIM REVIEW AND NOT INTENDED FOR REGULATORY APPROVAL, PERMITS, BIDDING OR CONSTRUCTION PURPOSES. THEY WERE PREPARED BY OR UNDER THE SUPERVISION OF:

MARTIN STEFFEN, FLA 6667386
NAME LICENSE NO.
DATE 1/9/2024
2600036 FL
FIRM / BUSINESS NO. STATE

PROJECT NO.: 38545.001
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PLANTING PLAN

L-103

GENERAL LANDSCAPE NOTES:

- 1. LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR VERIFYING PROJECT SITE CONDITIONS AND DETERMINING REQUIRED QUANTITIES AND AVAILABILITY OF ALL MATERIALS PRIOR TO BIDDING. QUANTITIES ARE PROVIDED FOR INFORMATIONAL PURPOSES ONLY. IF ANY DISCREPANCIES OCCUR BETWEEN QUANTITIES CALLED FOR ON THE PLANT LIST AND THOSE INDICATED ON THE DRAWINGS, THE DRAWINGS SHALL GOVERN.
2. PRIOR TO COMMENCEMENT OF CONSTRUCTION, CONTRACTOR SHALL INSPECT PLANTING AREAS AND VERIFY THAT NO OBJECTIONABLE MATERIALS OR OBSTRUCTIONS ARE PRESENT. PRESENT FINDINGS TO OWNER'S REPRESENTATIVE FOR APPROVAL. ALL EXISTING PLANTING SHALL REMAIN INTACT AND UNDISTURBED UNLESS OTHERWISE NOTED ON THE DRAWINGS. ALL EXISTING SITE FURNISHINGS, PAVING, LANDSCAPE, AND OTHER ELEMENTS TO REMAIN SHALL BE PROTECTED FROM ANY DAMAGE UNLESS OTHERWISE NOTED.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ADJACENT IMPROVEMENTS FROM DAMAGE AND EROSION INCLUDING BUT NOT LIMITED TO EXISTING PLANT MATERIAL, GRADES, SIDEWALKS, SITE FURNISHINGS, CURBS, AND UTILITIES. ANY ADJACENT IMPROVEMENT DAMAGED DURING CONSTRUCTION SHALL, AT A MINIMUM, BE RESTORED TO A STATE EQUAL TO ITS PRE-CONSTRUCTION STATE AT THE CONTRACTOR'S EXPENSE. THE LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR SODDING ALL AREAS DISTURBED BY OTHER CONTRACTORS OR BY LANDSCAPE INSTALLATION.
4. IN GENERAL, THE WORK SHALL PROCEED AS RAPIDLY AS THE SITE BECOMES AVAILABLE. CONTRACTOR TO COORDINATE PROJECT SCHEDULE WITH OWNER'S REPRESENTATIVE. WORK TO BEGIN WITHIN 5 BUSINESS DAYS OF RECEIPT OF NOTICE TO PROCEED.
5. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS TO COMPLETE WORK, AND SHALL COMPLY WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS.
6. THE LANDSCAPE CONTRACTOR SHALL COORDINATE CONSTRUCTION OF PLANTING AREAS WITH HARDSCAPE, ELECTRICAL, AND IRRIGATION WORK.
7. LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ANY HOISTING EQUIPMENT NECESSARY FOR THE PLACEMENT OF PLANT MATERIAL.
8. COLLECT SOIL SAMPLES AT A MINIMUM OF (3) PLANTING LOCATIONS THROUGHOUT THE PROJECT. SUBMIT TESTING LOCATIONS TO OWNER'S REPRESENTATIVE PRIOR TO TAKING SAMPLES. SAMPLES SHALL BE SENT TO AN APPROVED AGRONOMIC SOILS TESTING LABORATORY, STATING PROPOSED PLANT MATERIAL AT EACH TEST LOCATION. ANALYSIS SHALL INCLUDE, AT A MINIMUM, PH, NPK, ORGANIC CONTENT, TEXTURE, AND SOLUBLE SALTS. SUBMIT RESULTS/RECOMMENDATIONS AND PROPOSED FERTILIZER ANALYSIS/AMENDMENTS TO OWNER'S REPRESENTATIVE. COSTS OF FERTILIZER AND AMENDMENTS ARE TO BE INCLUDED IN THE COST OF THE PROJECT.
9. LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND VERIFYING THE CONDITION OF UNDERGROUND UTILITIES THAT AFFECT PLANTING PROCEDURES. IF ANY CONFLICTS OCCUR BETWEEN PROPOSED LOCATION OF TREES ON THE DRAWINGS AND ANY UNDERGROUND, SUBSURFACE, OR OVERHEAD UTILITIES OR STRUCTURES THE LANDSCAPE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATIONS AND PROTECTION OF ALL EXISTING UTILITIES SHOWN OR NOT SHOWN, AND ALL PROPOSED UTILITIES ON THESE DRAWINGS.
10. IF THE LANDSCAPE CONTRACTOR DAMAGES ANY STAKED OR IN PLACE UTILITIES OR STRUCTURES BY HIS OWN NEGLIGENCE THEY SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
11. THE LANDSCAPE CONTRACTOR SHALL REFER TO THE LANDSCAPE PLANTING DETAILS, NOTES, AND THE LANDSCAPE SCHEDULE FOR COMPLETE LANDSCAPE INSTALLATION INSTRUCTIONS. NOTIFY OWNER'S REPRESENTATIVE OF ANY AND ALL DISCREPANCIES PRIOR TO CONSTRUCTION OR INSTALLATION.
12. THE LANDSCAPE CONTRACTOR SHALL RE-GRADE ALL AREAS DISTURBED BY PLANT REMOVAL, RELOCATION, AND/OR INSTALLATION WORK. ANY DAMAGED PLANT MATERIAL SHALL BE REPLACED WITH PLANTS OF SAME SPECIES (MIN 12' HT, 3" CAL, 6' CT) EQUALING THE TOTAL DIAMETER BREST HEIGHT(OBH) OF THE DAMAGED TREE AND SHALL BE SUBJECT TO ALL REQUIREMENTS HEREIN.
13. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR WATERING ALL NEWLY INSTALLED PLANT MATERIAL AS NEEDED TO MAINTAIN HEALTH AND VIGOR THROUGHOUT THE 90 DAY MAINTENANCE PERIOD REGARDLESS OF THE STATUS OF EXISTING OR PROPOSED IRRIGATION AND/OR RAINFALL.

DAMAGES AND WARRANTY:

- 1. ALL PLANT MATERIAL, INCLUDING TRANSPLANTED PLANT MATERIAL, SHALL BE GUARANTEED AT OR ABOVE THE SPECIFIED CONDITIONS THROUGH SUBSTANTIAL COMPLETION AND UNTIL THE END OF THE (1) YEAR WARRANTY PERIOD. MAINTENANCE SHALL BE PROVIDED BY THE LANDSCAPE CONTRACTOR FOR 90 DAYS AFTER SUBSTANTIAL COMPLETION. AFTER WHICH THE LANDSCAPE CONTRACTOR WILL COORDINATE MAINTENANCE WITH OWNER'S REPRESENTATIVE. DECLINE IN CONDITION OF PLANT MATERIAL DURING INSTALLATION AND/OR WARRANTY PERIOD SHALL BE GROUNDS FOR REJECTION AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE.
2. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR RE-STAKING OF TREES DURING THE WARRANTY PERIOD. IF NECESSARY, MAXIMUM TOLERANCE FROM VERTICAL SHALL BE 3 DEGREES. GUYING / STAKING PRACTICES SHALL NOT PERMIT NAILS, SCREWS, WIRES ETC., TO PENETRATE OUTER SURFACE OF TREES OR PALMS. TREES OR PALMS REJECTED DUE TO THIS PRACTICE SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
3. THE OWNER AND/OR THE OWNER'S REPRESENTATIVE HAS THE RIGHT TO REJECT ANY AND ALL WORK WHICH DOES NOT MEET WITH THE REQUIREMENTS OF THE SPECIFICATIONS AT ANY STAGE OF THE PROJECT. CONTRACTOR TO REPLACE REJECTED PLANT MATERIAL WITHIN ONE WEEK (5 BUSINESS DAYS) OF NOTICE.
4. CONTRACTOR TO REQUEST INSPECTION OF PROJECT IN WRITING TO OWNERS REPRESENTATIVE. IF ALL WORK IS SATISFACTORY AND COMPLETE IN ACCORDANCE WITH CONDITIONS OF CONTRACT DOCUMENTS, THEN THE OWNER AND/OR THEIR REPRESENTATIVE SHALL DECLARE THE PROJECT TO BE SUBSTANTIALLY COMPLETE. SUBSTANTIAL COMPLETION CONSTITUTES THE BEGINNING OF THE 1 YEAR WARRANTY PERIOD AND THE 90 DAY MAINTENANCE PERIOD.
5. CONTRACTOR SHALL REMOVE ALL PLANT SAUCERS, GRADE SMOOTH, AND RE-MULCH AS WELL AS REMOVE PLANTING STAKES FROM SITE AFTER THE (1) YEAR WARRANTY PERIOD.

PROJECT SUBMITTALS:

- 1. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR APPROVAL FOR ALL PROPOSED MATERIALS INCLUDING BUT NOT LIMITED TO PLANTS, STAKING, SOIL AMENDMENTS, FERTILIZER, MULCH, ETC. PRIOR TO PURCHASING. CONTRACTOR SHALL PROVIDE REPRESENTATIVE SAMPLES OF ALL PLANT MATERIAL ON-SITE FOR REVIEW BY OWNERS REPRESENTATIVE. NOTIFY OWNERS REPRESENTATIVE OF INSPECTION A MINIMUM OF 3 BUSINESS DAYS PRIOR TO INSPECTION. IF APPROVED BY OWNERS REPRESENTATIVE, THEN DATED AND SCALED COLOR PHOTOGRAPHS MAY ALSO BE SUBMITTED.
2. ALL PROJECT SUBMITTALS MUST BE COMPLETED AND COMPILED IN AN EASILY REPRODUCIBLE FORM. SUBMITTAL SHEETS THAT ARE NOT LEGIBLE AND REPRODUCIBLE WILL BE REJECTED. SUBMITTALS SHEETS THAT DO NOT CLEARLY IDENTIFY THE PRODUCTS OR MATERIALS SELECTED WILL BE REJECTED.
3. CONTRACTOR SHALL SUBMIT TO THE OWNER'S REPRESENTATIVE THE GROWER'S AND/OR STATE INSPECTION CERTIFICATE FOR PLANT MATERIAL TWO (2) WEEKS PRIOR TO COMMENCEMENT OF WORK.
4. PRODUCTS INSTALLED ON THE PROJECT SITE THAT ARE NOT CONSISTENT WITH THE PROJECT SUBMITTALS WILL BE REMOVED AND REPLACED WITH THE PRODUCTS IDENTIFIED IN THE PROJECT SUBMITTAL PACKAGE AT THE CONTRACTOR'S EXPENSE.
5. PRIOR TO ISSUING SUBSTANTIAL COMPLETION NOTICE THE CONTRACTOR SHALL SUBMIT TO THE OWNER THREE (3) COPIES OF AS BUILT PLANS/DOCUMENTS AND THREE (3) COPIES OF AN ANNUALIZED MAINTENANCE AND OPERATION MANUAL, DETAILING ALL SCHEDULES, NURSERY PRACTICES, WATERING REQUIREMENTS, FERTILIZATION, TRIMMING, ETC., FOR ALL PLANT MATERIALS AND PLANT AREAS OF THE PROJECT.

SITE REQUIREMENTS:

- 1. CONTRACTOR SHALL AGREE TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY, THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY, AND HOLD THE OWNER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN THE CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER.
2. LANDSCAPE HOLDING AREA, INGRESS, EGRESS, AND SITE ACCESS SHALL BE COORDINATED WITH THE OWNER'S REPRESENTATIVE. THE CONTRACTOR SHALL NOT DISTURB OR IMPEDE ACCESS TO THE SITE BY OTHERS.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR THE DAILY CLEANUP OF PREMISES AND REMOVAL OF DISCARDED OR SURPLUS MATERIALS AND RUBBISH IN A LAWFUL MANNER. ANY OPEN PITS OR TRENCHES SHALL BE COMPLETELY AND THOROUGHLY BARRICADED DURING THE WORKDAY AND COMPLETELY FILLED IN AT THE END OF EACH WORKDAY. ALL MATERIALS, PRODUCTS, AND EQUIPMENT REMAINING ON SITE AT THE END OF THE WORK DAY SHALL BE STORED IN AN ORGANIZED FASHION IN THE AREA DESIGNATED BY THE OWNER'S REPRESENTATIVE.
4. ALL CONTRACTORS AND SUBCONTRACTORS SHALL HAVE A SET OF APPROVED CONSTRUCTION DOCUMENTS ON SITE AT ALL TIMES.
5. DURING CONSTRUCTION, CREWS ARE REQUIRED TO HAVE AT LEAST ONE (1) ENGLISH SPEAKING PERSON ON SITE.

PLANT MATERIAL NOTES:

- 1. ALL PLANT MATERIAL SHALL BE FLORIDA GRADE NO. 1 OR BETTER AS SPECIFIED IN GRADES AND STANDARDS FOR NURSERY PLANTS PARTS I AND II, DIVISION OF PLANT INDUSTRY, FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES, LATEST EDITION, AND SHALL CONFORM TO CURRENT AMERICAN ASSOCIATION OF NURSERYMAN STANDARDS FOR NURSERY STOCK.
2. CONTAINER GROWN PLANTS: A MINIMUM OF 80% OF THE CONTAINER ROOTBALL MUST BE BOUND BY THE ROOT SYSTEM. ENCIRCLING OR "RING" ROOTS ARE PROHIBITED AND PLANTS WILL BE REJECTED.
3. ALL SOD SHALL BE WEED AND WEED SEED FREE, WITH A 2" THICKNESS OF ROOTS CAPABLE OF HOLDING SAND. SOD SHALL BE FRESHLY-CUT WITHIN TWENTY-FOUR (24) HOURS OF LAYING AND LAID WITH TIGHTLY-BUTTED JOINTS. HAND RAKING SHALL BE DONE AS NECESSARY TO ENSURE PROPER EVEN GRADES AND CLEAR SURFACES FOR SOD. STAKING OF SOD SHALL BE DONE AS NECESSARY TO PREVENT MOVEMENT OF MATERIAL.
4. ALL PLANT MATERIAL SHALL BE PROTECTED DURING TRANSPORT AND DELIVERY TO JOB SITE WITH SHADE CLOTH OR OTHER ACCEPTABLE MEANS OF WINDBURN PREVENTION.
5. SUBSTITUTION OF PLANT MATERIALS WILL NOT BE PERMITTED UNLESS AUTHORIZED BY THE OWNER'S REPRESENTATIVE; ALL SUBSTITUTIONS MUST MEET MINIMUM SPECIFICATIONS ON THE PLANT LIST.
6. SUBSTITUTION OF FIELD GROWN TREES FOR TREES THAT ARE SPECIFIED AS CONTAINER GROWN WILL NOT BE PERMITTED UNLESS OTHERWISE APPROVED BY THE OWNER'S REPRESENTATIVE. IF SUBSTITUTION IS APPROVED, ALL PLANT SPECIFICATIONS WILL APPLY TO APPROVED BALLED AND BURLAPPED MATERIAL.
7. NEW PLANT MATERIAL WILL BE FIELD ADJUSTED TO ACCOMMODATE EXISTING PLANT MATERIAL SUCH AS OVERHEAD CANOPY TREES, UNDERSTORY TREES AND SHRUBS OR GROUND COVER. THIS WILL ENSURE EXISTING PLANT MATERIAL TO REMAIN IN ITS NATURAL STATE. THEREFORE, NO EXISTING PLANT MATERIAL WILL BE ALTERED BY REMOVING, CUTTING, TRIMMING OR DESTROYING IN ORDER TO INSTALL NEW PLANT MATERIAL.
8. ALL TREES SHALL BE LOCATED AT LEAST SIX FEET AWAY FROM THE CENTERLINE OF SWALES AND FROM PROPOSED STORMWATER INLETS.

PLANTING:

- 1. TREES GROWN IN GROW BAGS OR GROW BAG TYPE MATERIAL MUST HAVE THE GROW BAG REMOVED ENTIRELY PRIOR TO PLANTING.
2. BALLED AND BURLAPPED OR ANY BASKETED MATERIAL SHALL HAVE THE TOP ONE THIRD (1/3) OF DEGRADABLE BURLAP AND TOP ONE THIRD (1/3) OF WIRE CAGE PULLED BACK AND REMOVED FROM THE BASE OF THE TRUNK. STRAPS MUST BE CUT AND REMOVED ENTIRELY PRIOR TO INSTALLATION.
3. CONTRACTOR SHALL NOTIFY OWNERS REPRESENTATIVE IF ANY CONFLICTS EXIST BETWEEN THE BUILT ENVIRONMENT AND PLANS (I.E. UTILITY CABINETS, UTILITY VALVES, STREET SIGNS, SIDEWALK LOCATIONS)

PLANTING AREA PREPARATION NOTES:

- 1. THE CONTRACTOR SHALL STAKE LOCATIONS AND LIMITS OF TREES, PLANTING, MULCH, AND SOD AREAS TO REFLECT PLANS TO GREATEST EXTENT POSSIBLE. FOR TREES LOCATED BETWEEN BACK OF CURB AND FRONT OF SIDEWALK, PLACE TREES EQUAL DISTANCE FROM CURB AND SIDEWALK. FOR TREES LOCATED OUTSIDE OF RIGHT-OF-WAY, PLACE TREES A MINIMUM OF 5' FROM BACK OF SIDEWALK, 2.5' FOR PALMS. COORDINATE WITH OWNER'S REPRESENTATIVE TO INSPECT STAKING LOCATIONS AND LIMITS ON SITE. PROVIDE MINIMUM 5 BUSINESS DAYS ADVANCE NOTIFICATION OF PROPOSED INSPECTION. CONTRACTOR SHALL MAKE MODIFICATIONS AS MAY BE REQUESTED.
2. WORK WITHIN 15' OF EXISTING TREES TO REMAIN SHALL BE PERFORMED USING HAND TOOLS. ANY DISTURBED ROOTS SHALL BE SEVERED USING CLEAN AND SHARP TOOLS.
3. HERBICIDE APPLICATION: BEGIN TURF SPRAYING PROCESS A MINIMUM 30 DAYS PRIOR TO PLANTING AS FOLLOWS: SPRAY TURF AREA TO BE KILLED WITH GLYPHOSATE PER MANUFACTURER'S RECOMMENDATIONS, 7 DAYS AFTER SPRAYING, CLOSE MOW TO 1" HEIGHT, 14 DAYS AFTER CLOSE MOWING, RE-SPRAY WITH GLYPHOSATE PER MANUFACTURER'S RECOMMENDATIONS. PROTECT EXISTING PLANTS TO REMAIN FROM OVER-SPRAY OR SPRAY WITHIN ROOT ZONE. CONTRACTOR TO ENSURE TOTAL WEED ERADICATION, 7 DAYS AFTER RE-SPRAYING, PROCEED WITH TURF REMOVAL AND LANDSCAPE INSTALLATION AS DESCRIBED BELOW.

- 4. FOR PROPOSED INDIVIDUAL TREE PLANTING PITS
KILLED TURF TO BE REMOVED SHALL BE CLEARED AND GRUBBED TO A MINIMUM DEPTH OF 4". EXCAVATED MATERIAL SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN A LAWFUL MANNER. TURF SHALL BE THOROUGHLY REMOVED PRIOR TO THE PLANTING AND BACKFILL PROCESS. INSTALL TREES AS DETAILED. ESTABLISH FINISHED PRE-MULCHING GRADE WITHIN 4" BELOW TOP OF SURROUNDING TURF OR HARDSCAPE.

TO ASSURE DRAINAGE/PERCOLATION OF INDIVIDUAL TREE PLANTING PITS PRIOR TO INSTALLATION, CONTRACTOR SHALL FILL SAMPLE TREE PITS (1 IN 5) WITH WATER AND OBSERVE PERCOLATION. HOLES SHALL PERCOLATE IN 30 MINUTES OR LESS. BRING DISCREPANCIES TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE.

INSTALL BACKFILL MIXTURE IN LIFTS AND TAMP LIGHTLY AROUND EACH AND EVERY PLANT. THOROUGHLY FLUSH WITH WATER AT EACH LIFT AND MAKE ADJUSTMENTS TO PROVIDE PROPERLY SET PLANT MATERIAL WITH THE TOP OF ROOTBALL 1"-2" ABOVE FINISHED GRADE.

- 5. FOR PROPOSED PLANTING AREAS
KILLED TURF TO BE REMOVED SHALL BE CLEARED AND GRUBBED TO A MINIMUM DEPTH OF 6". EXCAVATED MATERIAL SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN A LAWFUL MANNER. TURF SHALL BE THOROUGHLY REMOVED PRIOR TO THE PLANTING PROCESS. BEFORE INSTALLING TOPSOIL, RAKE SUBSOIL SURFACE CLEAR OF STONES (1 INCH DIAMETER AND LARGER), DEBRIS, RUBBISH, DELETERIOUS MATERIALS, CONTAMINATED SOILS SHALL BE REMOVED AND REPLACED TO THEIR FULL DEPTHS AND EXTENTS. INSTALL TOPSOIL AT 6" DEPTH, TILL TOPSOIL AND EXISTING SUBSOIL TO A DEPTH OF 12". INSTALL PLANTINGS AS DETAILED. ESTABLISH OR RE-ESTABLISH PRE-MULCHING ROUGH GRADES INSURING POSITIVE FLOWS AND AESTHETIC LANDFORM SHAPES SHOWN IN THE GRADING PLANS.
6. FOR PROPOSED MULCH ON GRADE AREAS
LEAVE KILLED TURF IN PLACE. REMOVE KILLED TURF ONLY AT EDGES OF BED, APPROXIMATELY 12" WIDTH, AS REQUIRED TO ESTABLISH A TAPERED DIFFERENCE IN GRADE SO THAT INSTALLED MULCH (3" DEPTH) SHALL BE FLUSH TO 1" BELOW ADJACENT TURF OR HARDSCAPE.
7. FOR PROPOSED SOD AREAS
KILLED TURF TO BE REMOVED SHALL BE CLEARED AND GRUBBED TO A MINIMUM DEPTH OF 4". EXCAVATED MATERIAL SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN A LAWFUL MANNER. TURF SHALL BE THOROUGHLY REMOVED PRIOR TO THE PLANTING AND BACKFILL PROCESS. INSTALL TOPSOIL AT 2" DEPTH. TOPSOIL SHALL ESTABLISH FINISHED GRADE AT 2" BELOW EXISTING TURF OR HARDSCAPE. INSTALL SOD AS DETAILED. BUTT SOD PIECES TOGETHER CLOSELY AND ENSURE EDGES ARE TRIMMED EVENLY. ENSURE EXISTING GRADES ARE RE-ESTABLISHED FOR A FLUSH TRANSITION.
8. AN EVEN, WELL DEFINED LINE SHALL SEPARATE PLANTING AND MULCH ON GRADE AREAS FROM ALL SOD OR SEEDED AREAS.
9. BACKFILL MIXTURE FOR TREES AND SHRUBS SHALL CONSIST OF 25% COARSE SAND, 25% "BLENDED SOIL" OR EQUAL, AND 50% EXISTING SOIL. DISCARD REMAINING SOIL IN A LAWFUL MANNER. ALL PLANTING BACKFILL MIXTURES ARE SUBJECT TO APPROVAL BY THE OWNER'S REPRESENTATIVE. MIX THOROUGHLY PRIOR TO INSTALLATION ACCORDING TO THE FOLLOWING SCHEDULE:

Table with 3 columns: Quantity, Volume, and Material Description. Includes entries for 1, 3, 7, 15, 30, 45, 65, 100, 200, and 300 gallons of various soil and sand mixtures.

"BLENDED SOIL" SHALL CONSIST OF: 1/3 MUSHROOM COMPOST OR PEAT, 1/3 COMMERCIALY PROCESSED AND COMPOSTED COW MANURE AND 1/3 COMPOSTED BARK. SUBMIT PRODUCT SAMPLE/DATA SHEET FOR BLENDED SOIL COMPONENTS TO OWNER'S REPRESENTATIVE FOR APPROVAL PRIOR TO PURCHASE AND INSTALLATION.

- 10. TOPSOIL IMPORTED TO THE SITE SHALL BE SIEVED TOPSOIL, FREE OF ROCKS AND DEBRIS. CONTRACTOR SHALL SUBMIT SOIL ANALYSIS RESULTS FROM AN APPROVED AGRONOMIC SOILS TESTING LABORATORY FOR A MINIMUM OF PH, ORGANIC CONTENT, SOLUBLE SALTS, AND TEXTURE WITH A STATEMENT OF SUITABILITY FOR BAHIA (PASPALLUM NOTATUM 'ALGERINE'), ST. AUGUSTINE (STENOTAPHRUM SECUNDATUM 'FLORATAM'), ZOYSIA (ZOYSIA JAPONICA 'EMPIRE') SOD AND SHRUBS/GRASSES. TOPSOIL SHALL BE FREE OF DELETERIOUS MATERIALS THAT WOULD BE HARMFUL TO PLANT GROWTH. SHALL BE FREE OF NEMATODES, SHALL BE OF UNIFORM QUALITY AND SHALL HAVE A PH VALUE BETWEEN 6.5 AND 7.5 (AS DETERMINED IN ACCORDANCE WITH ASTM E70). PEAT SHALL BE STERILIZED TO MAKE FREE OF ALL VIABLE NUT GRASS AND OTHER UNDESIRABLE WEEDS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE SUITABILITY FOR GROWTH OF ALL PROPOSED PLANT MATERIAL. SUBMIT PRODUCT SAMPLE/DATA SHEET FOR TOPSOIL TO OWNERS REPRESENTATIVE FOR APPROVAL PRIOR TO PURCHASE AND INSTALLATION.

LANDSCAPE CONTRACTOR SHALL BEAR FINAL RESPONSIBILITY FOR PROPER SURFACE DRAINAGE OF PLANTED AREAS. FINISH GRADE ALL PREPARED TOPSOIL AREAS TO A SMOOTH, EVEN SURFACE ENSURING A MINIMUM 3% POSITIVE DRAINAGE AWAY FROM STRUCTURES AND ELIMINATE ANY LOW AREAS WHICH MAY COLLECT WATER. ANY DISCREPANCY IN THE DRAWINGS, OBSTRUCTION ON THE SITE, OR PRIOR WORK DONE BY ANOTHER PARTY WHICH THE LANDSCAPE CONTRACTOR FEELS PRECLUDES ESTABLISHING PROPER DRAINAGE SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF OWNER'S REPRESENTATIVE.

- 11. INSTALL FERTILIZER PER MANUFACTURER RECOMMENDATIONS. CONTRACTOR SHALL CONFIRM FERTILIZER REQUIREMENTS PER LOCAL MUNICIPALITY. AS A MINIMUM FOR BIDDING PURPOSES THE CONTRACTOR SHALL ASSUME THE FOLLOWING CONCERNING FERTILIZER:

FOR INITIAL INSTALLATION OF TREES AND SHRUBS, FERTILIZER IS ASSUMED TO BE CONTROLLED RELEASE FERTILIZER WITH A 15-9-12 ANALYSIS AND CONTAINING TRACE ELEMENTS MG, S, B, CU, FE, MN, MO, AND ZN. FERTILIZER GRANULES SHALL BE COMPOSED OF DRY NUTRIENTS ENCAPSULATED IN MULTIPLE LAYERS OF POLYMERIC RESIN.

FOR INSTALLATION OF BAHIA, ST. AUGUSTINE AND ZOYSIA SOD, FERTILIZER IS ASSUMED TO BE CONTROLLED RELEASE FERTILIZER WITH A 16-4-8. SOURCE FOR N SHALL BE RESIN-COATED UREA OR RESIN COATED AMMONIUM SALTS. MN, ZN, AND CU SHALL BE SULFATE FORMS. FE SHALL BE GRANULAR CHELATED IRON.

APPLICATION RATES ARE PROVIDED AS A RECOMMENDATION ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE APPROPRIATE FERTILIZER/AMENDMENTS TO ENSURE PROPER ESTABLISHMENT AND VIGOR OF PLANT MATERIAL.

Table with 3 columns: Application Rate, Container Size, and Material Description. Includes rates for 1.0Z, 6.0Z, 4.0Z, and 64.0Z per EA for various container sizes.

- 12. BUILD EARTHEN SAUCER TO CONTAIN WATER AROUND EACH INDIVIDUAL TREE PLANTING PIT AND AT THE PERIMETER OF ALL PLANTING AREAS. REMOVE EXCESS EXCAVATED SOIL FROM THE SITE AND DISPOSE OF IN A LAWFUL MANNER.
13. SPREAD MULCH AROUND INDIVIDUAL TREE RINGS, PLANTING AND MULCH AREAS.
MULCHING FOR INDIVIDUAL TREE RINGS, PLANTING, AND MULCH AREAS SHALL BE PINE STRAW MULCH, FULL LENGTH, DRY, BRIGHT IN COLOR, FRESHLY BALED, AND 3" DEPTH AFTER SETTLING. COMPOSED ONLY OF NEEDLES OF SLASH, LOBLOLLY, OR LONGLEAF PINE. PINE STRAW SHALL NOT BE USED IF IT IS ROTTED OR MOLDY, OR CONTAINS SEED, TUBERS, OR RHIZOMES OF ANY NOXIOUS SPECIES. THE ENTIRE LOT OF PINE BARK NUGGETS BE REJECTED IF THERE IS ANY EVIDENCE THAT THE PINE STRAW LOT WAS HARVESTED FROM A SITE INFESTED WITH LYGODIUM JAPONICUM OR LYGODIUM MICROPHYLLUM (CLIMBING FERN). MULCH SHALL BE UNIFORMLY SPREAD OVER THE FULL DIAMETER OF EACH INDIVIDUAL TREE RING, PLANTING, AND MULCH AREA. MULCH AREAS INCLUDE INITIAL INSTALLATION (3" DEPTH) PLUS RE-MULCHING (1.5" DEPTH MINIMUM) A MINIMUM ONCE PER YEAR DURING THE (1) YEAR WARRANTY PERIOD. MULCH SHALL NOT BE PLACED AGAINST TRUNKS OR STEMS OF PLANTS. SUBMIT PRODUCT SAMPLE/DATA SHEET FOR MULCH TO OWNER'S REPRESENTATIVE FOR APPROVAL PRIOR TO PURCHASE AND INSTALLATION.
14. PRE-EMERGENT HERBICIDE SHALL BE APPLIED TO ALL INDIVIDUAL TREE RINGS, PLANTING, AND MULCH AREAS. THE HERBICIDE ACTIVE INGREDIENTS SHALL BE SUITABLE FOR CONTROL OF ANNUAL AND PERENNIAL BROADLEAF WEEDS AND GRASSES. THE HERBICIDE SHALL BE APPLIED BY HAND, MANUFACTURER RECOMMENDATIONS FOR APPLICATION METHOD, TIMING AND APPLICATION RATE SHALL BE STRICTLY ADHERED TO.

POCKET PARKS

CITY OF MADEIRA BEACH
MADEIRA BEACH, FL.



Table with 2 columns: REVISION NO. and DESCRIPTION. Includes a row for DATE.

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NAME LICENSE NO.
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FIRM / BUSINESS NO. FL STATE

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L-500

POCKET PARKS

CITY OF MADEIRA BEACH
MADEIRA BEACH, FLORIDA



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TAMPA, FLORIDA 33622
TEL: (813) 820-4500

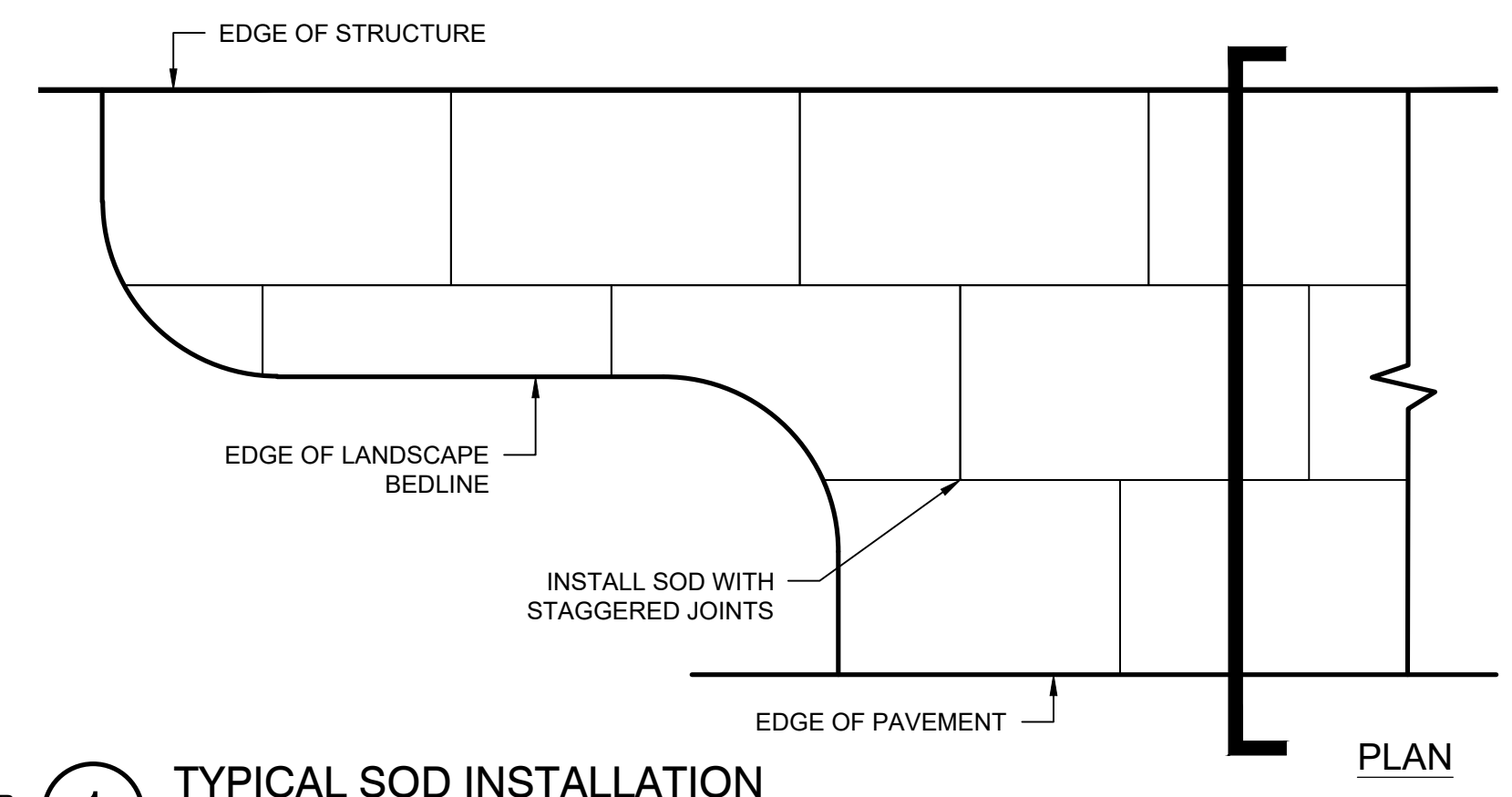
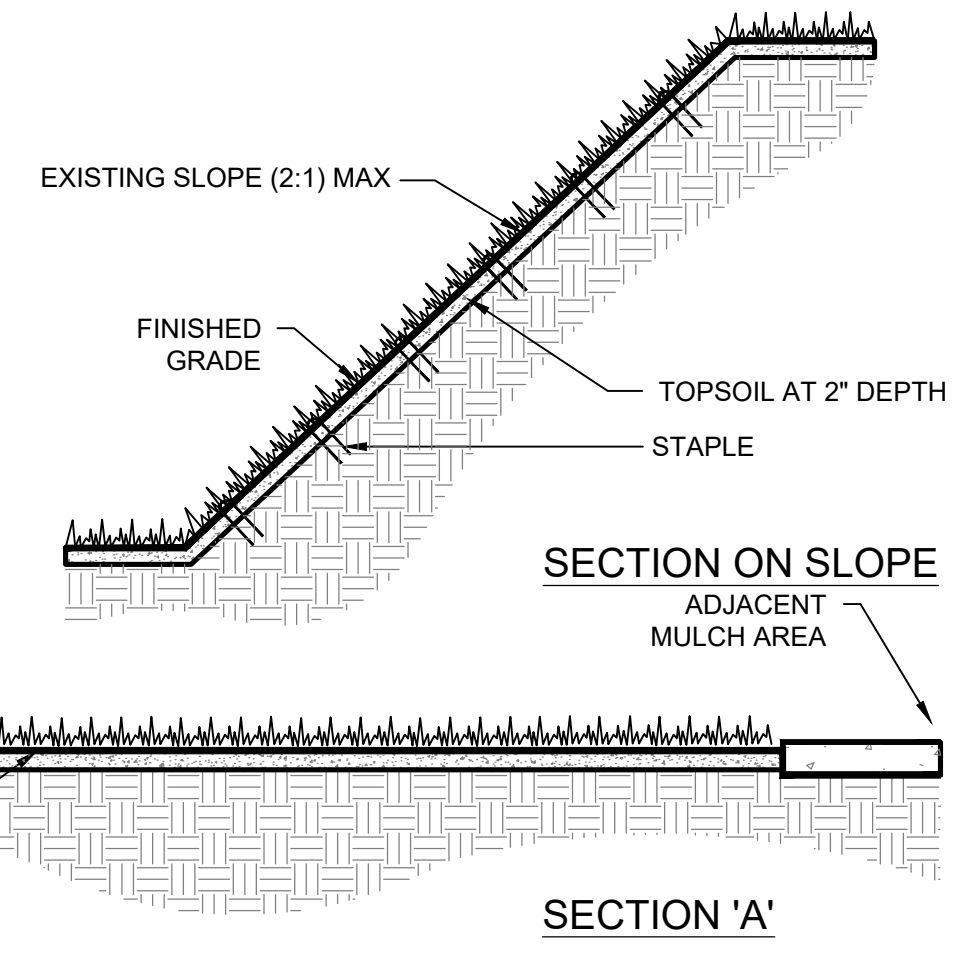
REVISION NO.	DATE	DESCRIPTION

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NAME: _____ LICENSE NO.: _____
DATE: 10/2024
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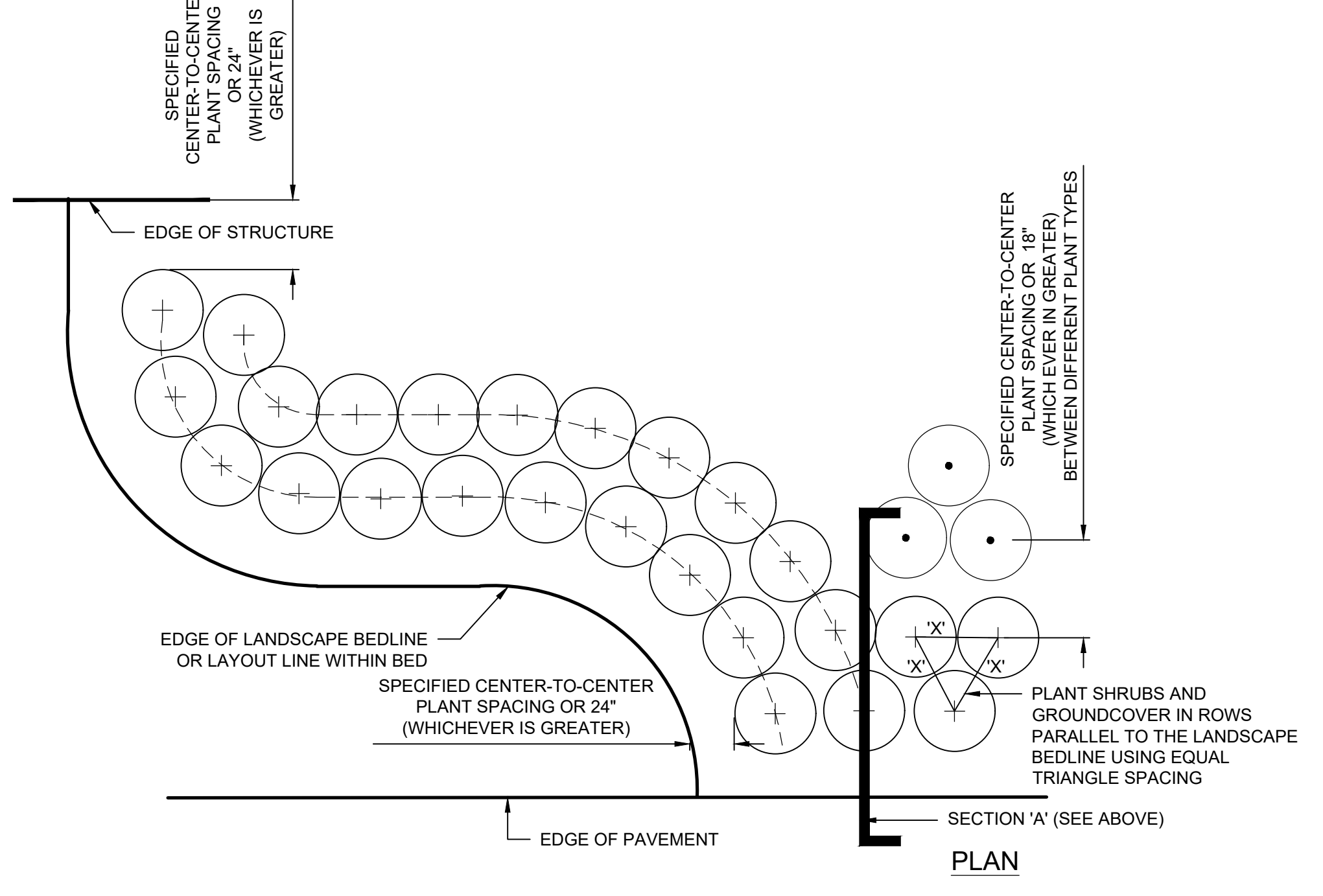
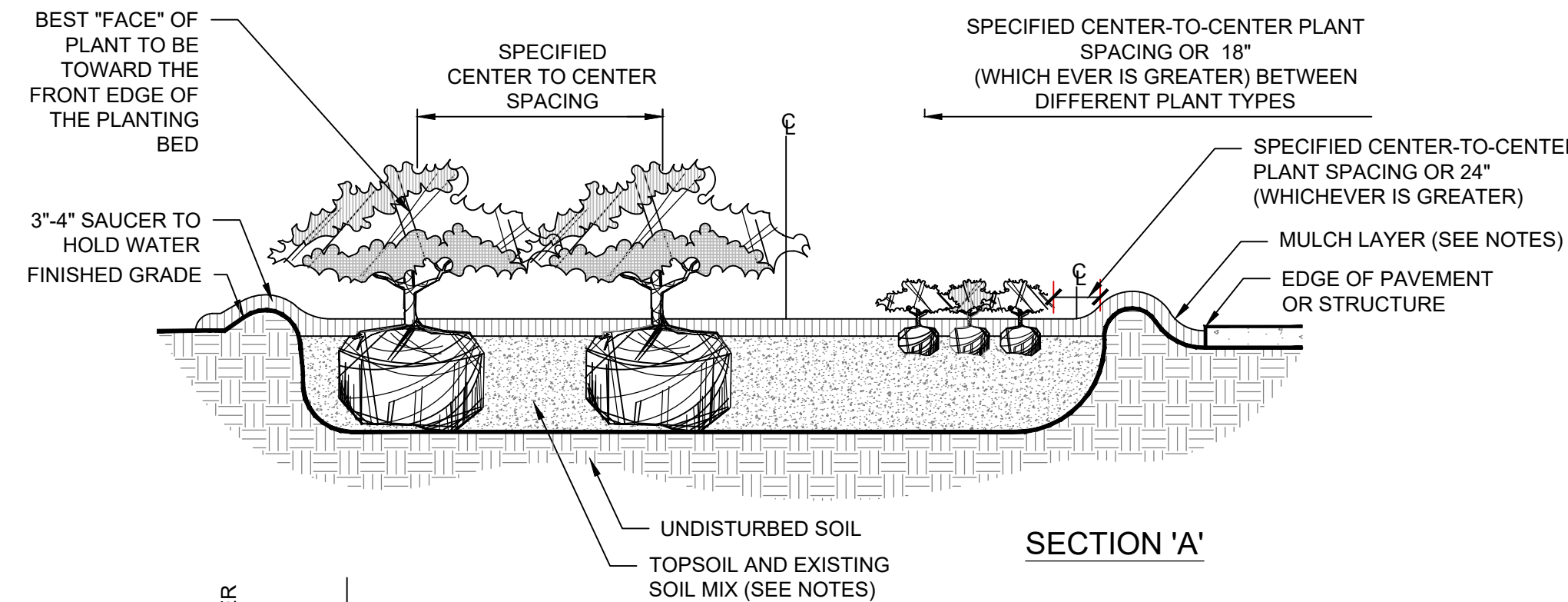
PROJECT NO.: 38545.001
ISSUED: OCTOBER 2023
DRAWN BY: IG
CHECKED BY: LMD
SCALE: NTS
SHEET TITLE:
PLANTING DETAILS

L-501

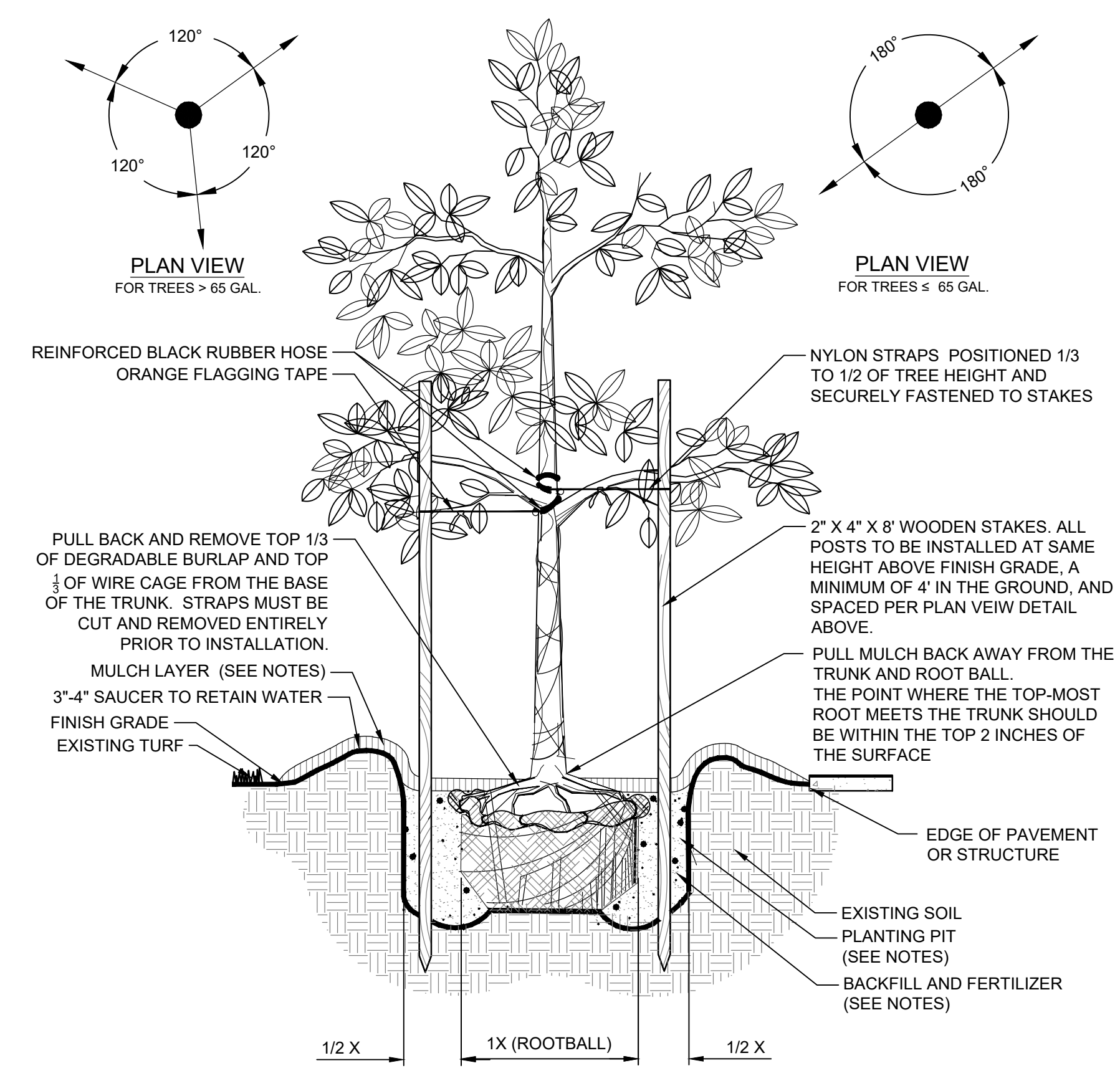
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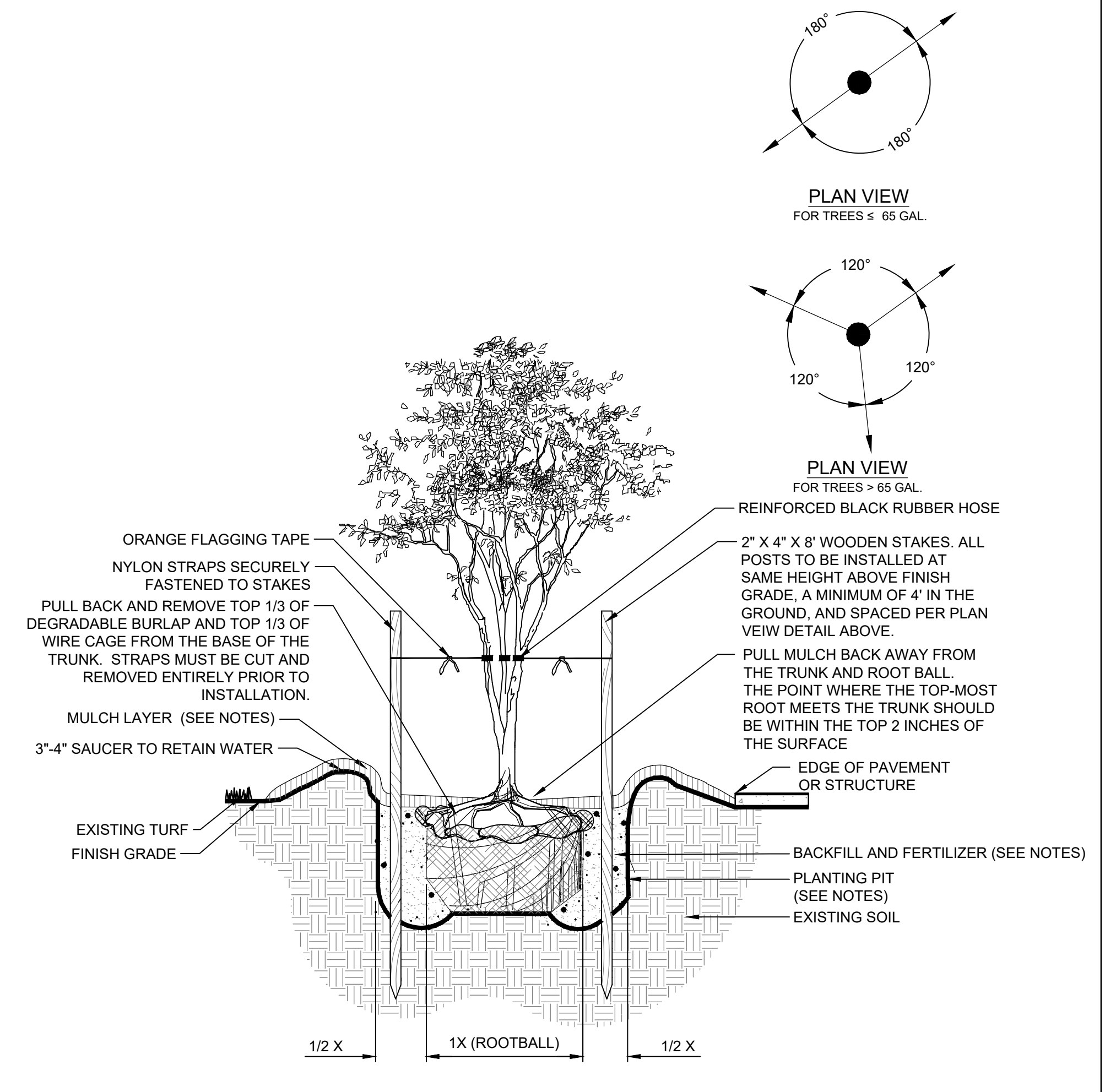
1 TYPICAL SOD INSTALLATION
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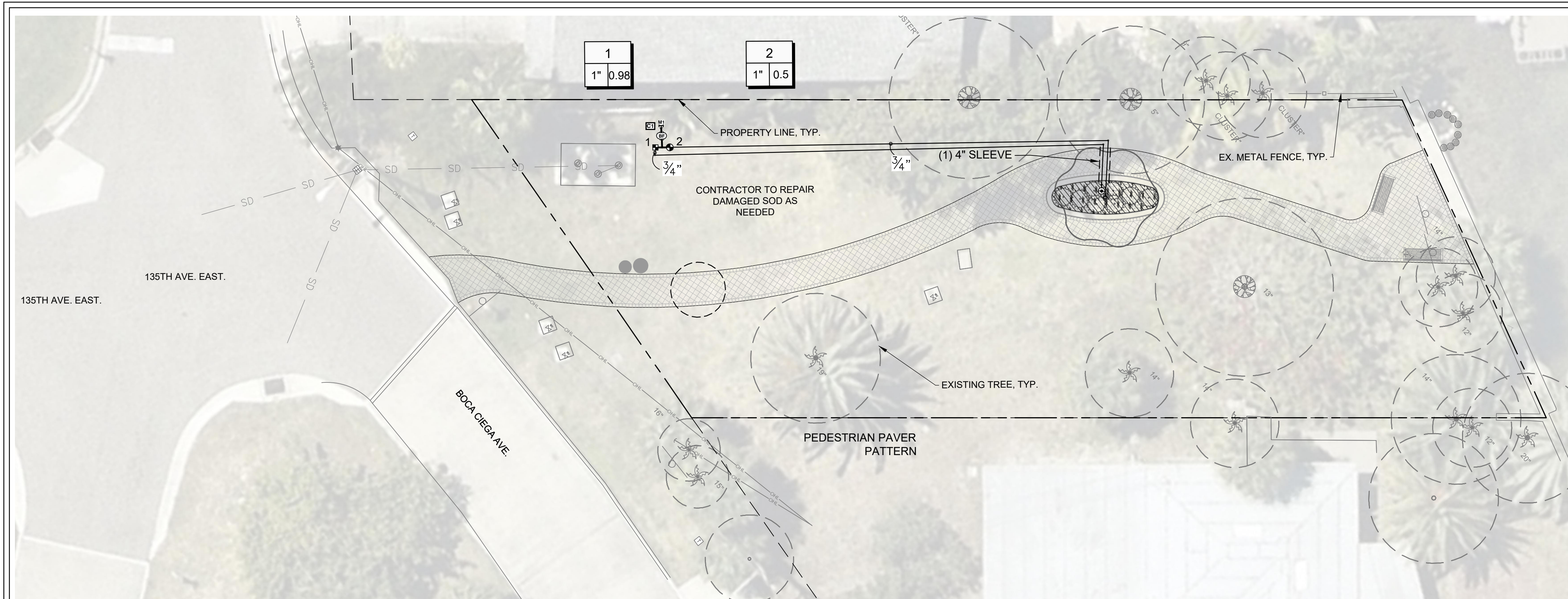
5 TYPICAL SHRUB AND GROUNDCOVER INSTALLATION
NTS



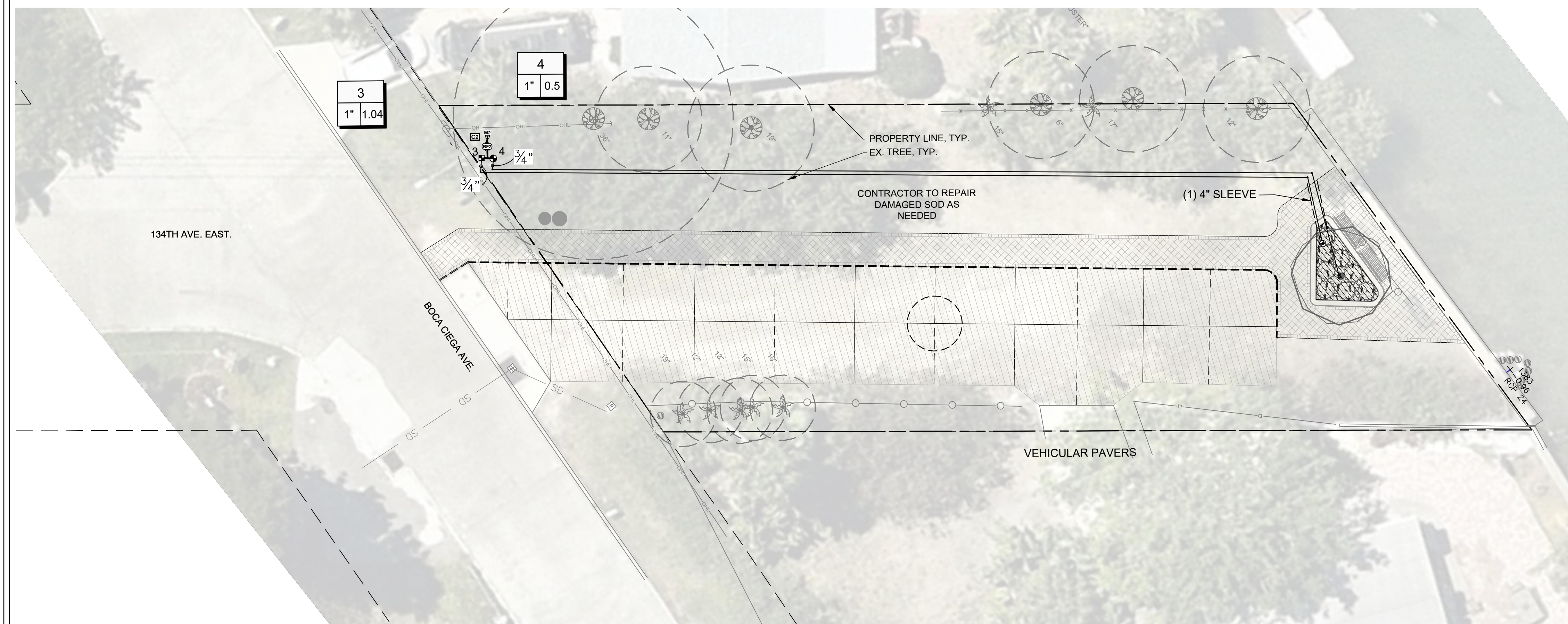
2 TYPICAL TREE INSTALLATION
NTS



6 TYPICAL MULTI-TRUNK TREE INSTALLATION
NTS



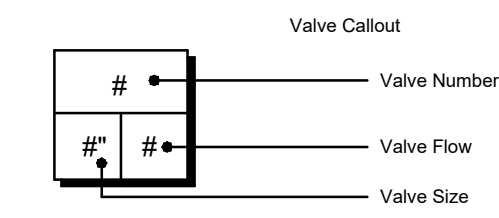
1 135TH AVE. EAST



2 134TH AVE. EAST

IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	HUNTER PCB FLOOD BUBBLER, 1/2IN. FIPT.
	HUNTER ICZ-101-25 1" DRIP CONTROL ZONE KIT. 1IN. ICV GLOBE VALVE WITH 1IN. HY100 FILTER SYSTEM. PRESSURE REGULATION: 25PSI. FLOW RANGE: 2 GPM TO 20 GPM. 150 MESH STAINLESS STEEL SCREEN.
	PIPE TRANSITION POINT IN DRIP BOX. PIPE TRANSITION POINT FROM PVC LATERAL TO DRIP TUBING WITH RISER IN 6IN. DRIP BOX.
	AREA TO RECEIVE DRIPLINE HUNTER HDL-09-12-CV HDL-09-12-CV HUNTER DRIPLINE W/ 0.9 GPH EMITTERS AT 12" O.C. CHECK VALVE, DARK BROWN TUBING W/ BLACK STRIPING. DRIPLINE LATERALS SPACED AT 12" APART, WITH EMITTERS OFFSET FOR TRIANGULAR PATTERN. INSTALL WITH HUNTER PLD BARBED OR PLD-LOC FITTINGS.
	HUNTER ICV-G 1" 1", 1-1/2", 2", AND 3" PLASTIC ELECTRIC REMOTE CONTROL VALVES, GLOBE CONFIGURATION, WITH NPT THREADED INLET/OUTLET, FOR COMMERCIAL/MUNICIPAL USE.
	FEBCO 825V 2" REDUCED PRESSURE BACKFLOW PREVENTER
	HUNTER P2C-400 LIGHT COMMERCIAL & RESIDENTIAL CONTROLLER, 4-STATION BASE MODULE CONTROLLER, 120 VAC, OUTDOOR/INDOOR MODEL.
	WATER METER 1-1/2"
	IRRIGATION LATERAL LINE: PVC CLASS 200 SDR 21 3/4"
	IRRIGATION MAINLINE: PVC CLASS 200 SDR 21
	PIPE SLEEVE: PVC SCHEDULE 40



POCKET PARKS
CITY OF MADEIRA BEACH
MADEIRA BEACH, FL.

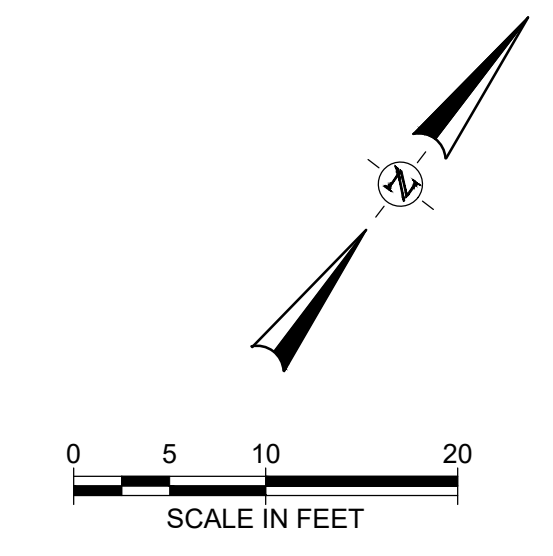
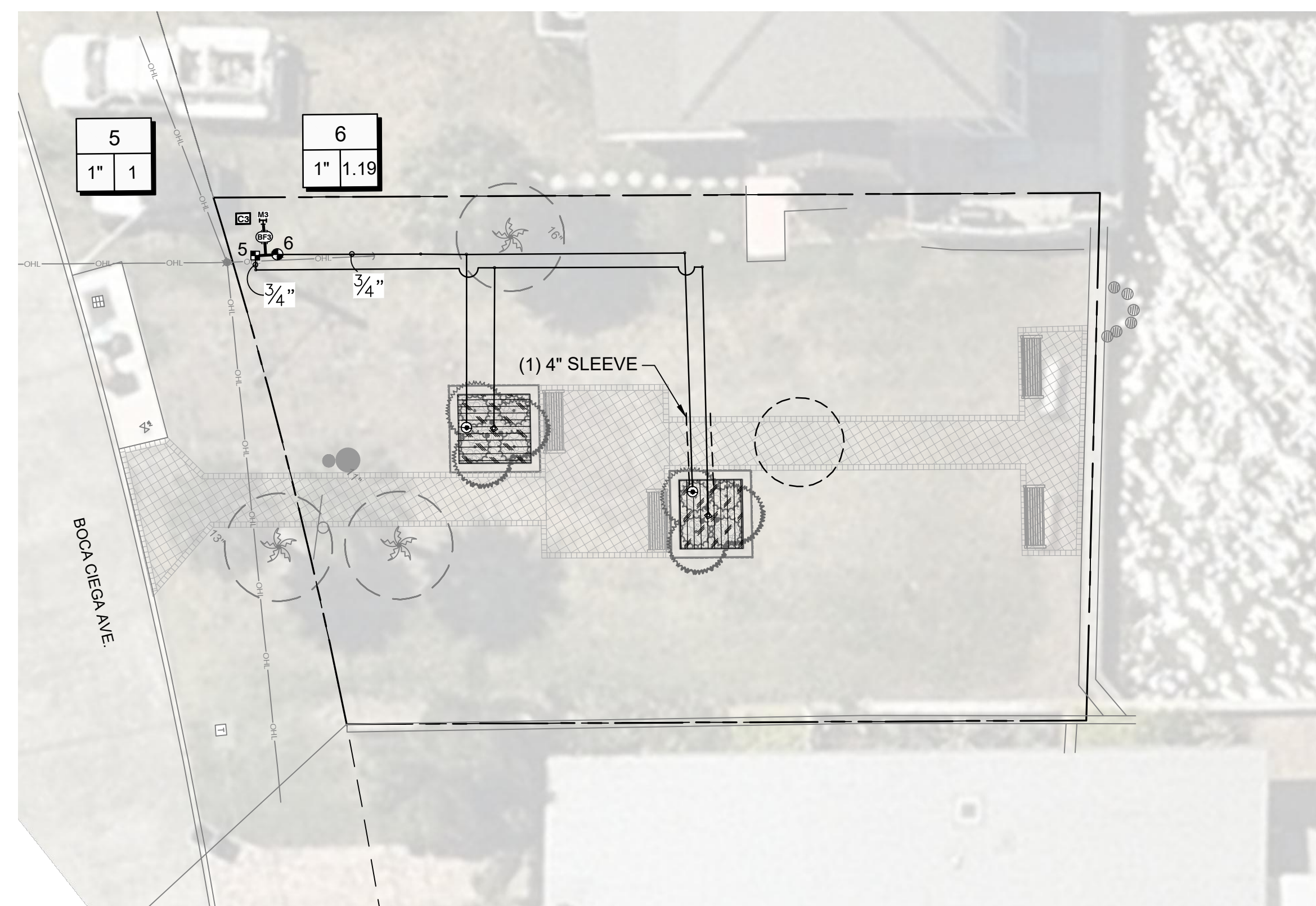


REVISION NO.	DATE	DESCRIPTION

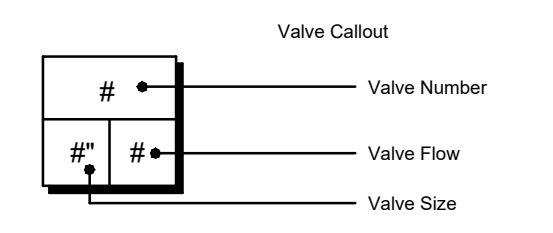
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MARTIN STEFFEN, FLA 6667386
NAME LICENSE NO.
1/9/2024
DATE
2600036 FL
FIRM / BUSINESS NO. STATE

PROJECT NO.:	38545.001
ISSUED:	OCTOBER 2023
DRAWN BY:	IG
CHECKED BY:	LMD
SCALE:	1" = 10'
SHEET TITLE	IRRIGATION PLAN
IR-101	

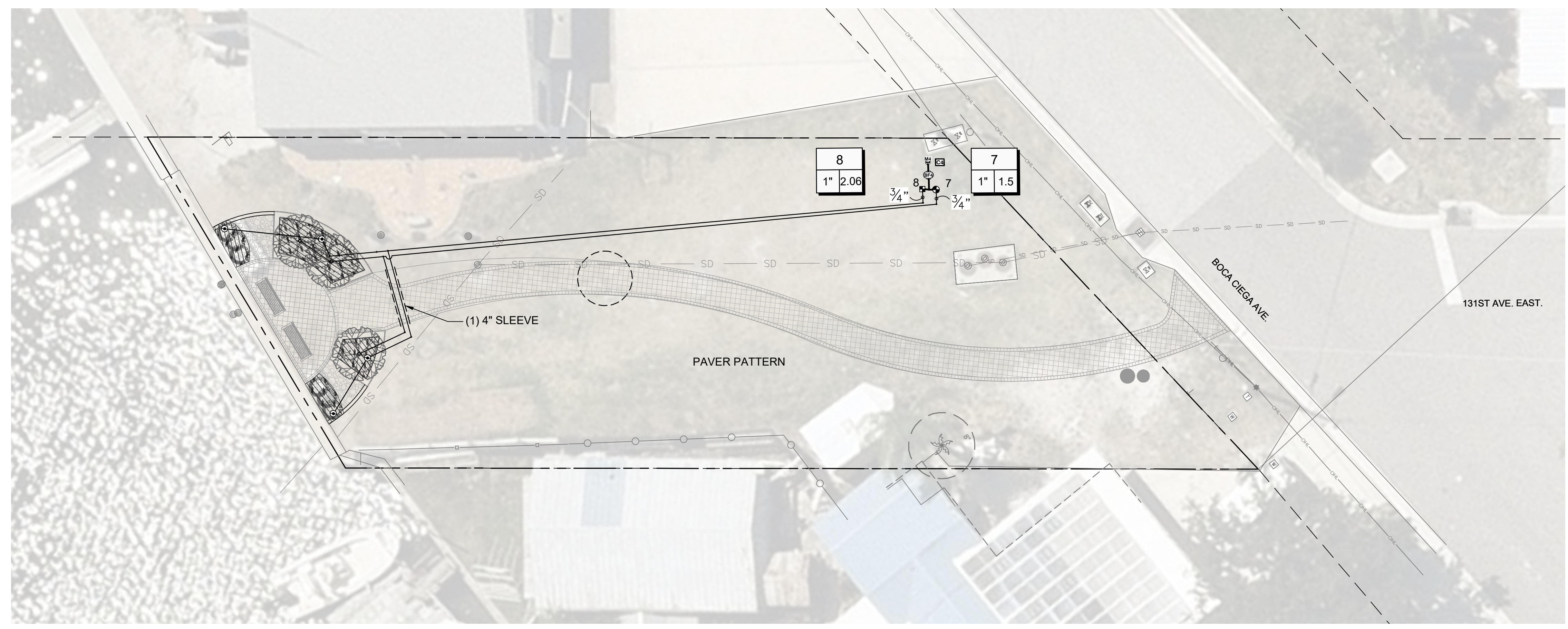
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IRRIGATION SCHEDULE	
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	HUNTER PCB FLOOD BUBBLER, 1/2IN. FIPT.
	HUNTER ICZ-101-25 1\"/>
	HUNTER HDL-09-12-CV Drip Control Zone Kit. 1IN. ICV GLOBE VALVE WITH 1IN. HY100 FILTER SYSTEM. PRESSURE REGULATION. 25PSI. FLOW RANGE: 2 GPM TO 20 GPM. 150 MESH STAINLESS STEEL SCREEN.
	PIPE TRANSITION POINT IN DRIP BOX PIPE TRANSITION POINT FROM PVC LATERAL TO DRIP TUBING WITH RISER IN 6IN. DRIP BOX.
	AREA TO RECEIVE DRIPLINE HUNTER HDL-09-12-CV HUNTER DRIPLINE W/ 0.9 GPH EMITTERS AT 12\"/>
	HUNTER ICV-G 1\"/>
	FEBCO B25Y 2\"/>
	HUNTER P2C-400 LIGHT COMMERCIAL & RESIDENTIAL CONTROLLER, 4-STATION BASE MODULE CONTROLLER, 120 VAC, OUTDOOR/INDOOR MODEL
	WATER METER 1-1/2\"/>
	IRRIGATION LATERAL LINE: PVC CLASS 200 SDR 21 3/4\"/>
	IRRIGATION MAINLINE: PVC CLASS 200 SDR 21
	PIPE SLEEVE: PVC SCHEDULE 40



3 132ND AVE. EAST



4 131ST AVE. EAST

POCKET PARKS

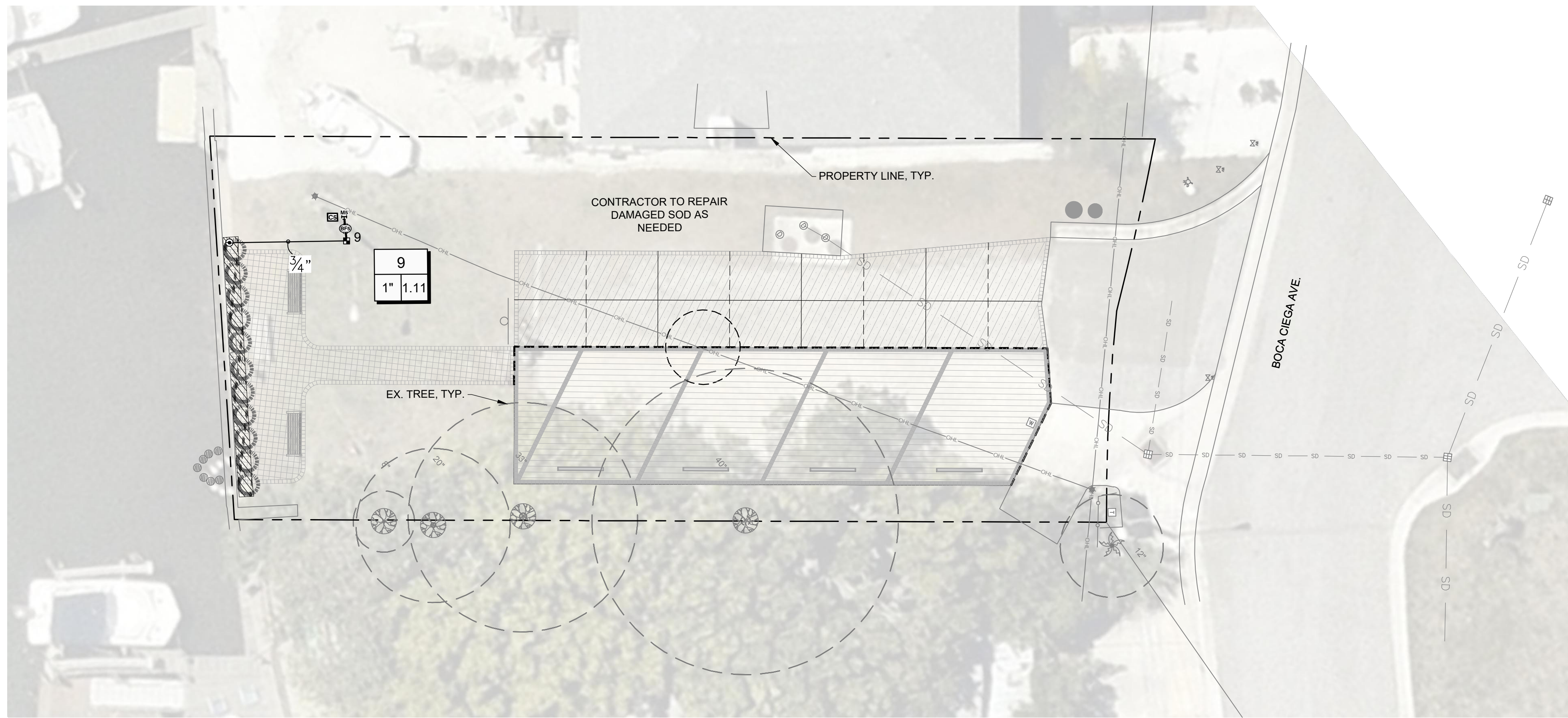
CITY OF MADEIRA BEACH
MADEIRA BEACH, FL.



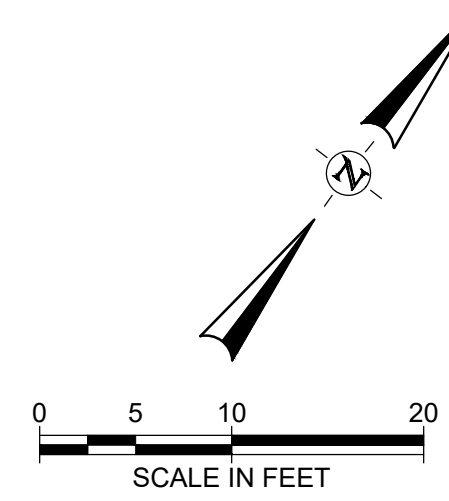
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DATE 1/9/2024
26000366 FL
FIRM / BUSINESS NO. STATE

PROJECT NO.: 38545.001
ISSUED: OCTOBER 2023
DRAWN BY: IG
CHECKED BY: LMD
SCALE: 1" = 10'
SHEET TITLE
IRRIGATION PLAN
IR-102

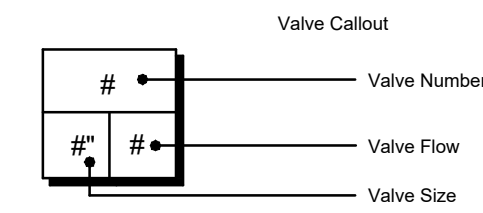


5 132ND AVE. EAST



IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	HUNTER PCB FLOOD BUBBLER, 1/2IN. FIPT.
	HUNTER ICZ-101-25 1\"/>
	HUNTER HDL-09-12-CV DRIPLINE W/ 0.9 GPH EMITTERS AT 12\"/>
	HUNTER ICV-G 1\"/>
	FBEO 825Y 2\"/>
	HUNTER P2C-400 LIGHT COMMERCIAL & RESIDENTIAL CONTROLLER, 4-STATION BASE MODULE CONTROLLER, 120 VAC, OUTDOOR/INDOOR MODEL
	WATER METER 1-1/2\"/>
	IRRIGATION LATERAL LINE: PVC CLASS 200 SDR 21 3/4\"/>
	IRRIGATION MAINLINE: PVC CLASS 200 SDR 21
	PIPE SLEEVE: PVC SCHEDULE 40



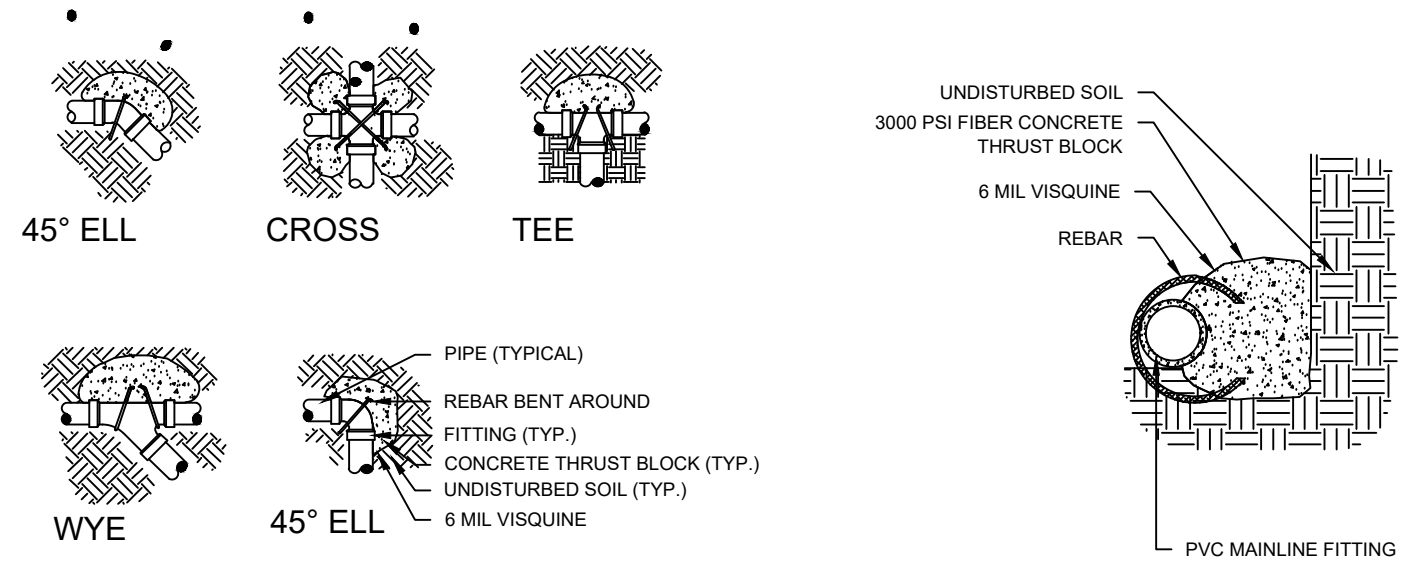
POCKET PARKS
CITY OF MADEIRA BEACH
MADEIRA BEACH, FL.



REVISION NO.	DATE	DESCRIPTION

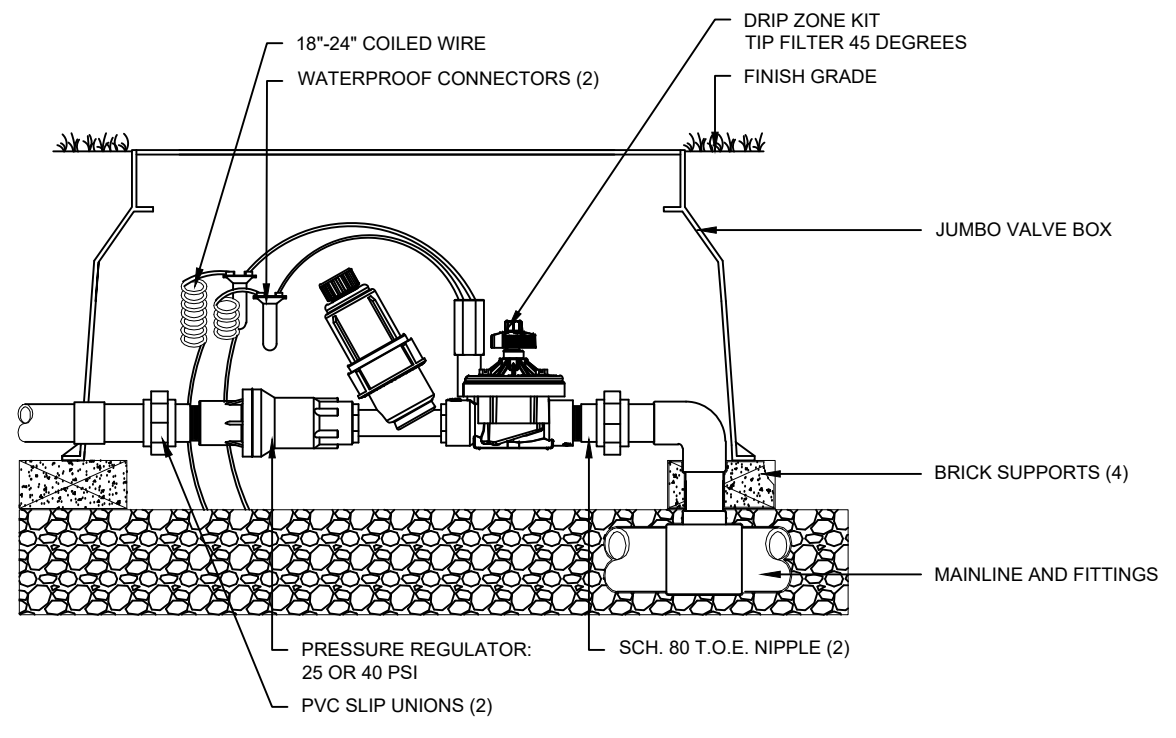
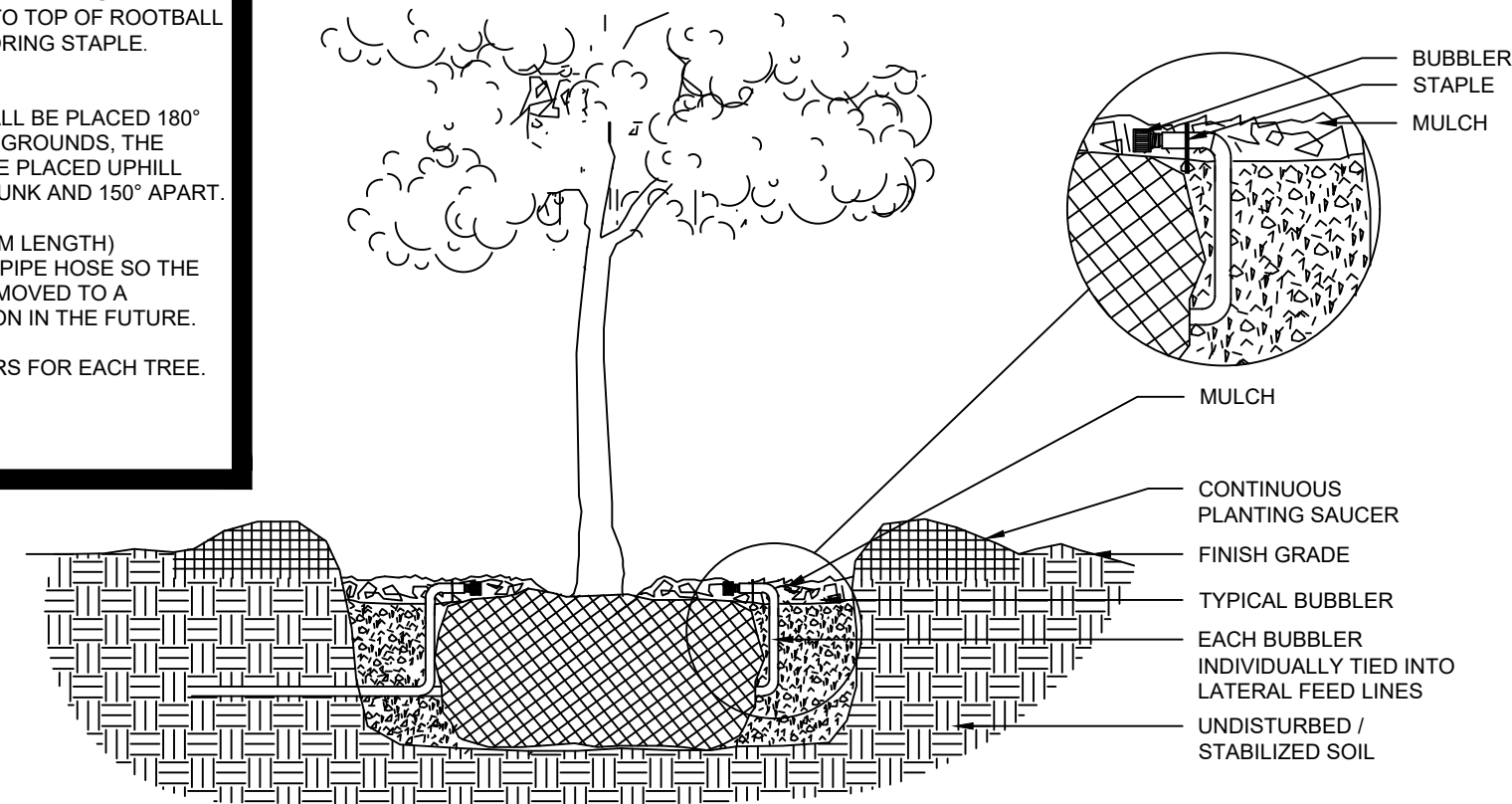
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DATE 1/9/2024
2600036 FL
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PROJECT NO.: 38545.001
ISSUED: OCTOBER 2023
DRAWN BY: IG
CHECKED BY: LMD
SCALE: 1" = 10'
SHEET TITLE
IRRIGATION PLAN
IR-103

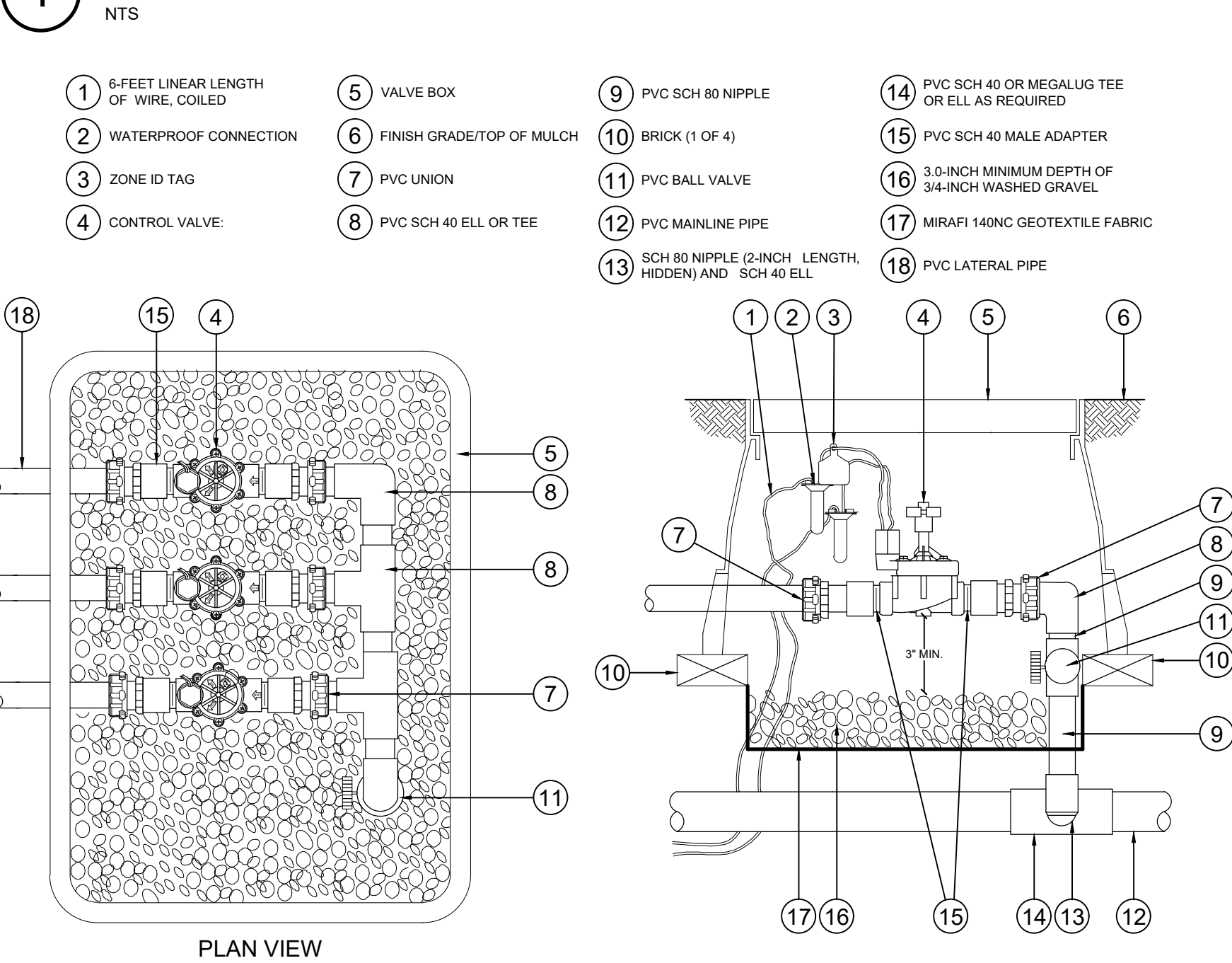


- NOTES:**
- SUPPLY LINES 2.0 INCHES IN DIAMETER AND LARGER SHALL RECEIVE CONCRETE THRUST BLOCKS AS SPECIFIED HEREIN & AS APPLICABLE.
 - ALL CONCRETE TO BE 2000 PSI OR STRONGER.
 - ALL REBAR SHALL BE RUST-FREE.
 - FITTINGS TO BE WRAPPED IN VISQUEEN BEFORE POURING THE THRUST BLOCK.
 - CONCRETE IS NOT TO INCREASE THE IRRIGATION MAINLINE.

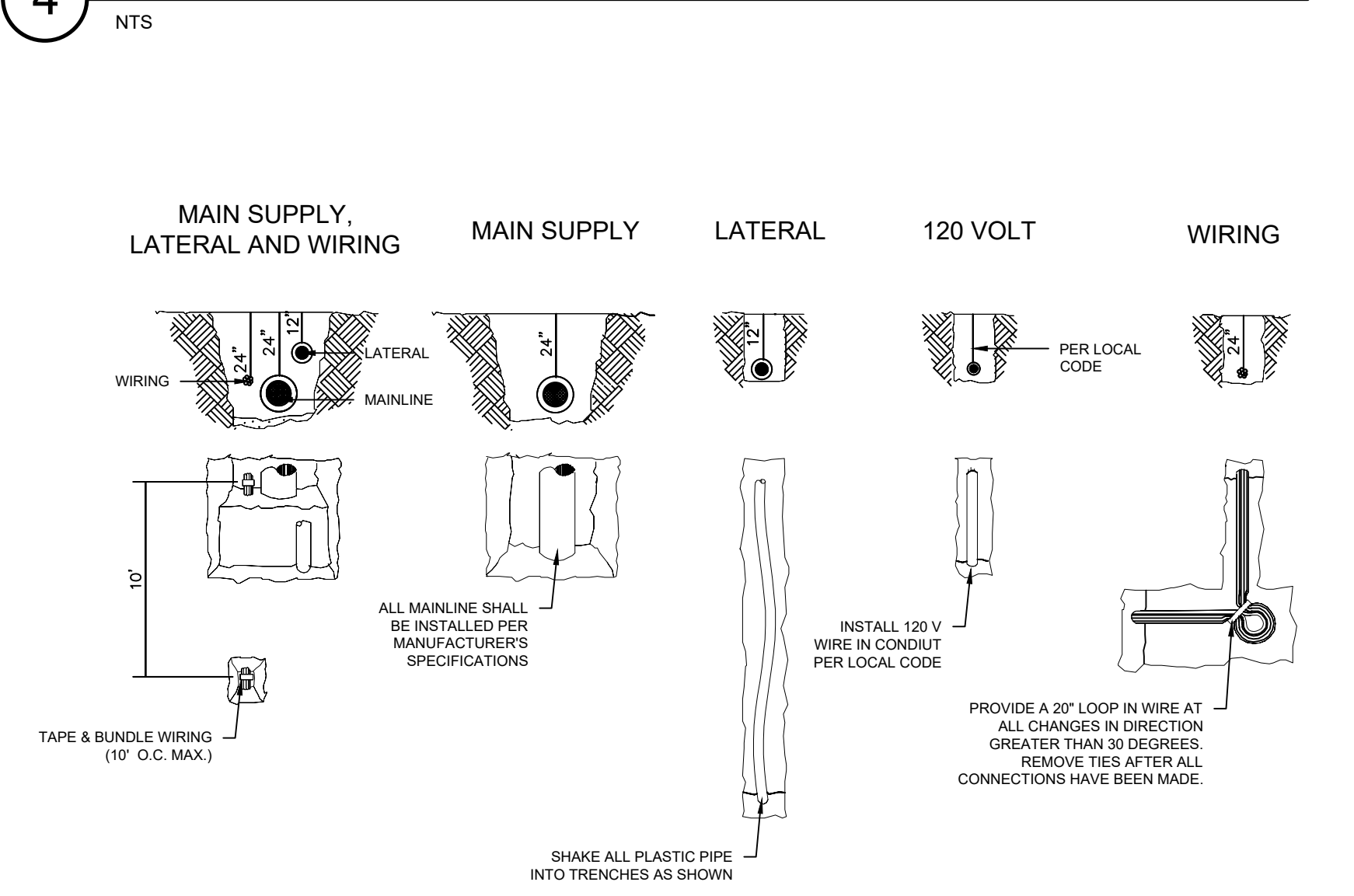
- NOTES:**
- BUBBLERS ARE TO BE PLACED AT THE MIDPOINT BETWEEN THE EDGE OF THE ROOTBALL AND THE MAIN TRUNK. SECURE BUBBLER TO TOP OF ROOTBALL WITH A SOIL ANCHORING STAPLE.
 - THE BUBBLERS SHALL BE PLACED 180° APART. IN SLOPING GROUNDS, THE BUBBLERS SHALL BE PLACED UPHILL FROM THE TREE TRUNK AND 150" APART.
 - PROVIDE (5' MINIMUM LENGTH) SUFFICIENT FUNNY PIPE HOSE SO THE BUBBLERS CAN BE MOVED TO A DIFFERENT LOCATION IN THE FUTURE.
 - PROVIDE 2 BUBBLERS FOR EACH TREE.



1 TYPICAL THRUST BLOCKING DETAILS

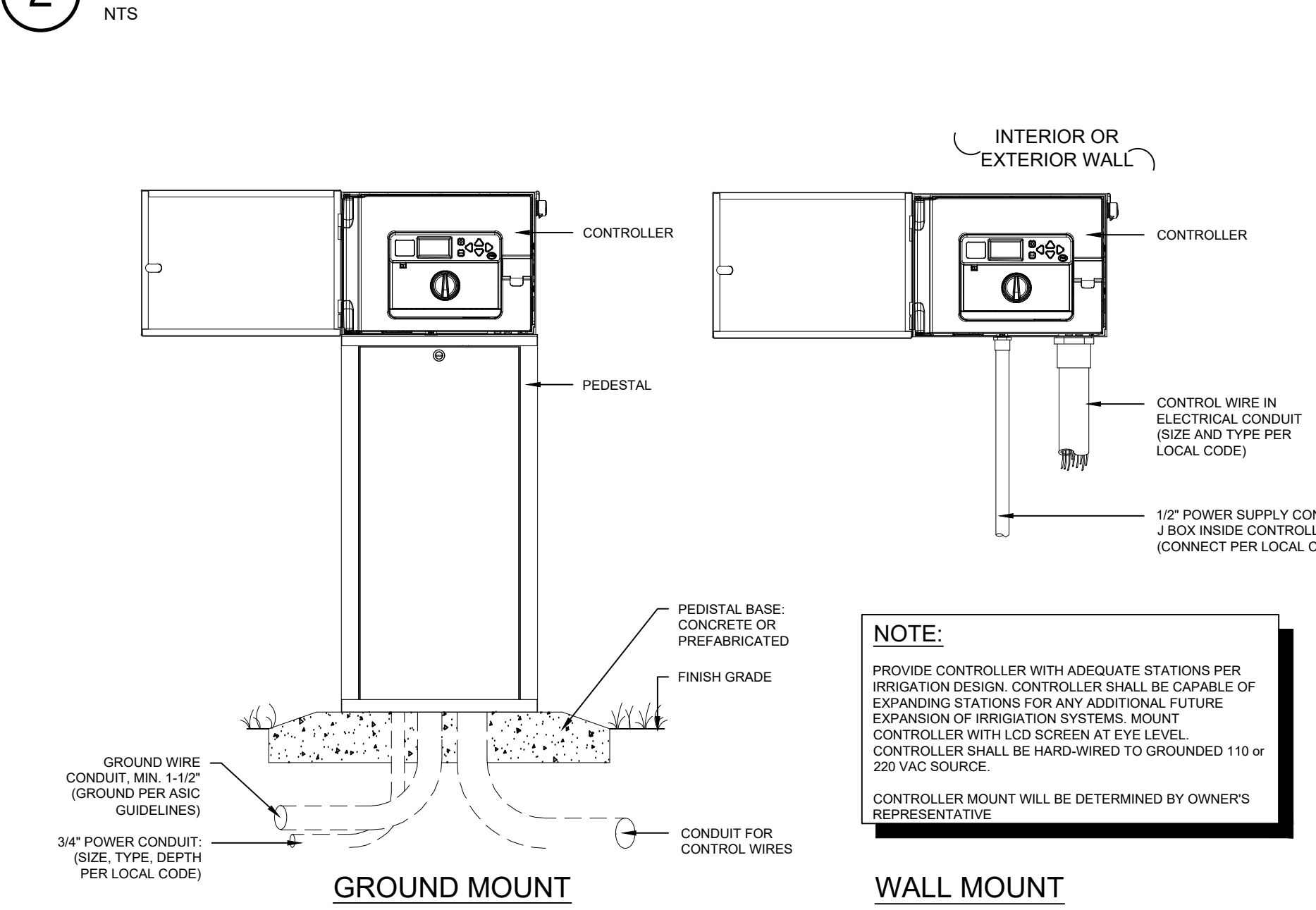


4 TYPICAL VALVE MANIFOLD (BUBBLERS)

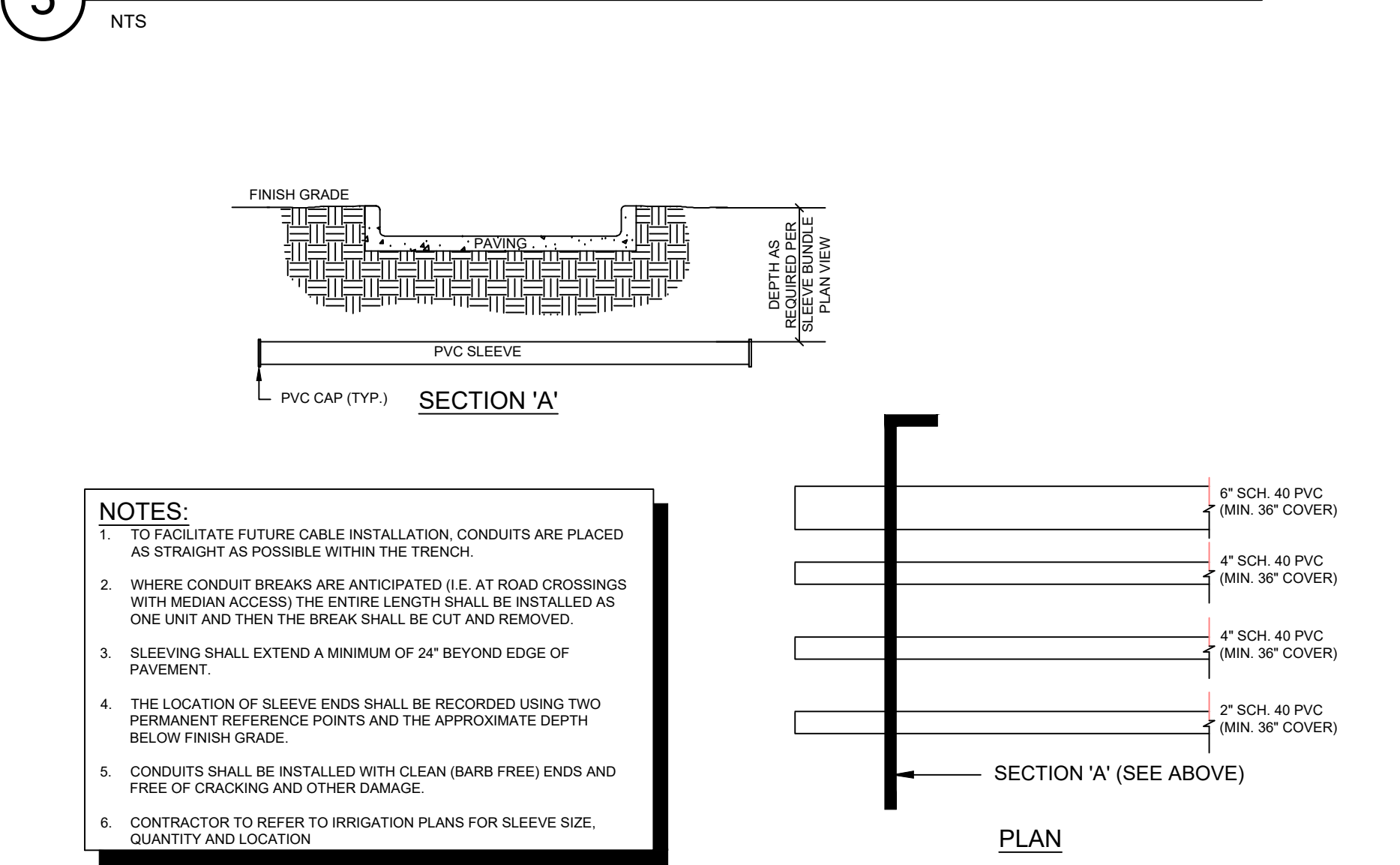


7 TYPICAL TRENCH DETAIL

2 TYPICAL BUBBLER DETAIL

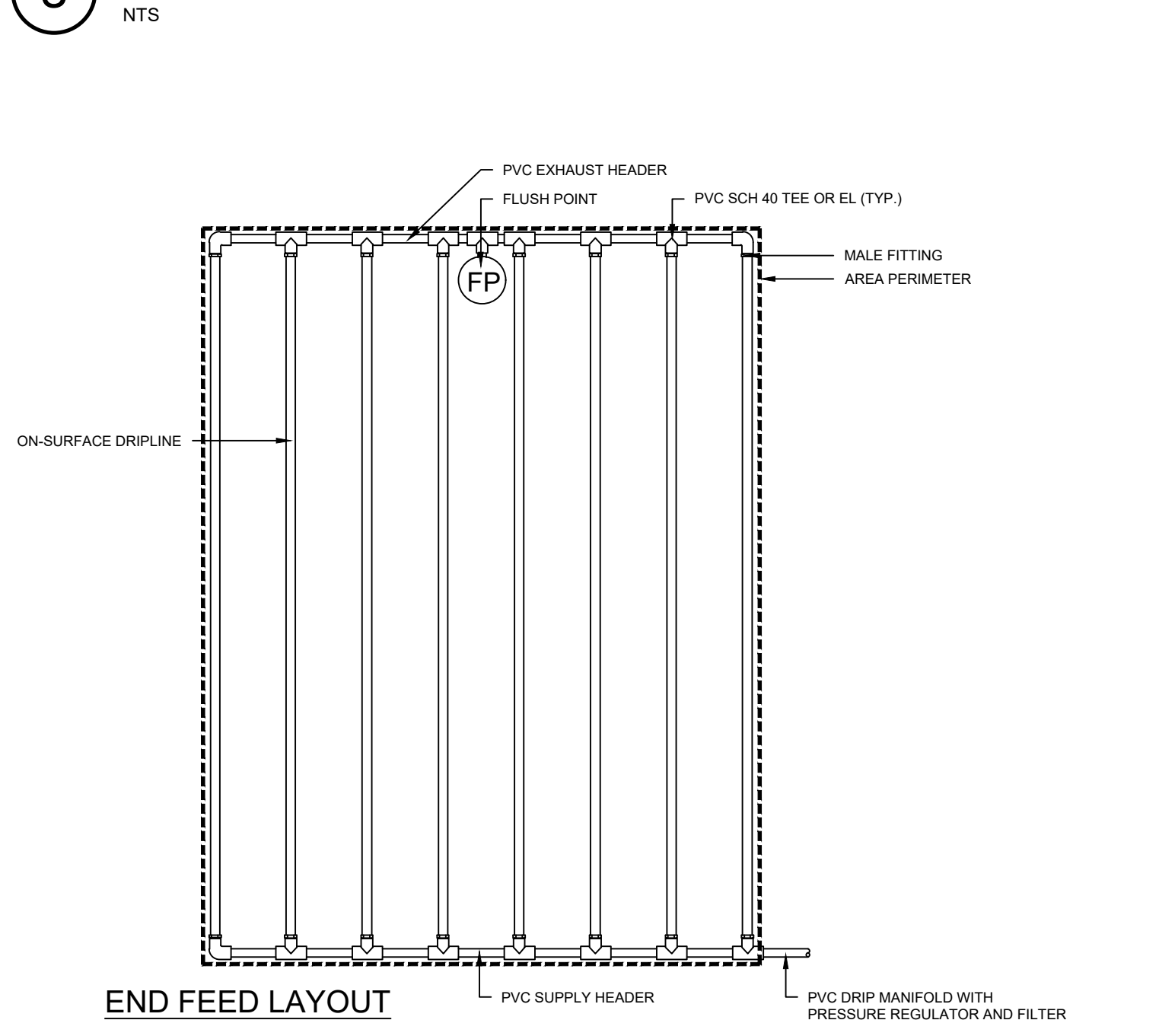


5 TYPICAL CONTROLLER



8 SLEEVE BUNDLE

3 TYPICAL VALVE (DRIP)



6 TYPICAL DRIPLINE LAYOUT

PIPE SIZE TABLE

IRRIGATION ZONE DEMAND GALLONS PER MINUTE (GPM)	MINIMUM PIPE SIZE
5-10	3/4"
11-15	1"
16-25	1-1/4"
26-32	1-1/2"
33-52	2"
53-75	2-1/2"
76-110	3"

REFER TO EACH IRRIGATION ZONE ON PLAN DRAWINGS FOR ZONE GPM
ALL PIPE SHALL BE SIZED SO AS NOT TO EXCEED 5 FPS

8 PIPE SIZE TABLE

FILE NAME: A:\38000s\38545\01\1\ACADD\Sheet\1-DTL-S-IRR-38545.dwg DATE: January 9, 2024, TIME: 9:47 AM, USER: ah4598

POCKET PARKS
CITY OF MADEIRA BEACH
MADEIRA BEACH, FL.



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DATE 1/9/2024
DATE 2600036 FL
FIRM / BUSINESS NO. STATE

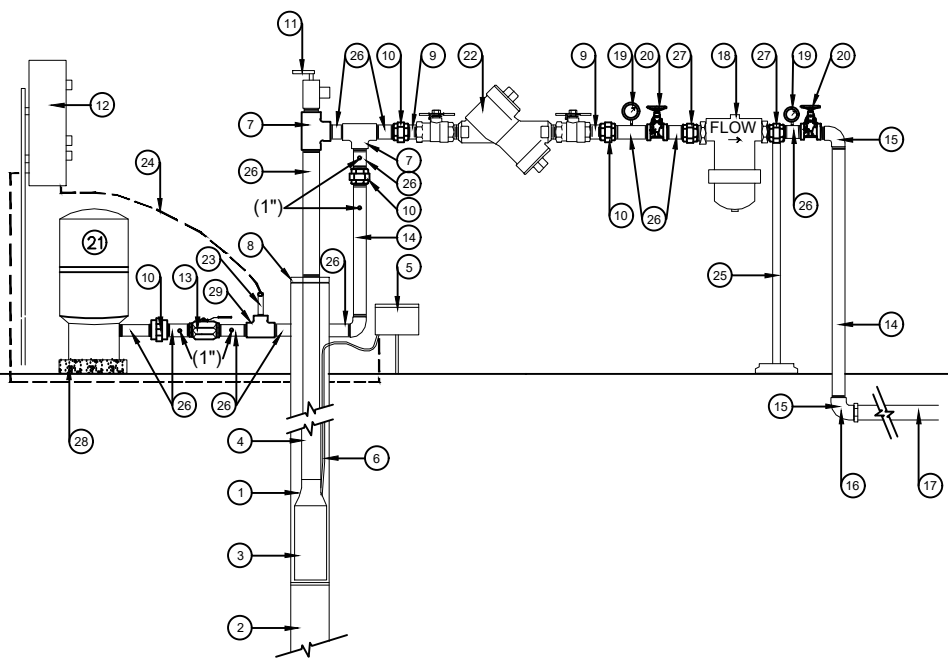
PROJECT NO.:	38545.001
ISSUED:	OCTOBER 2023
DRAWN BY:	IG
CHECKED BY:	LMD
SCALE:	1" = 10'
SHEET TITLE	

IRRIGATION DETAILS
IR-501

NOTE:

ALL SIZES AND CAPACITIES SHOWN FOR INFORMATIONAL PURPOSES ONLY.

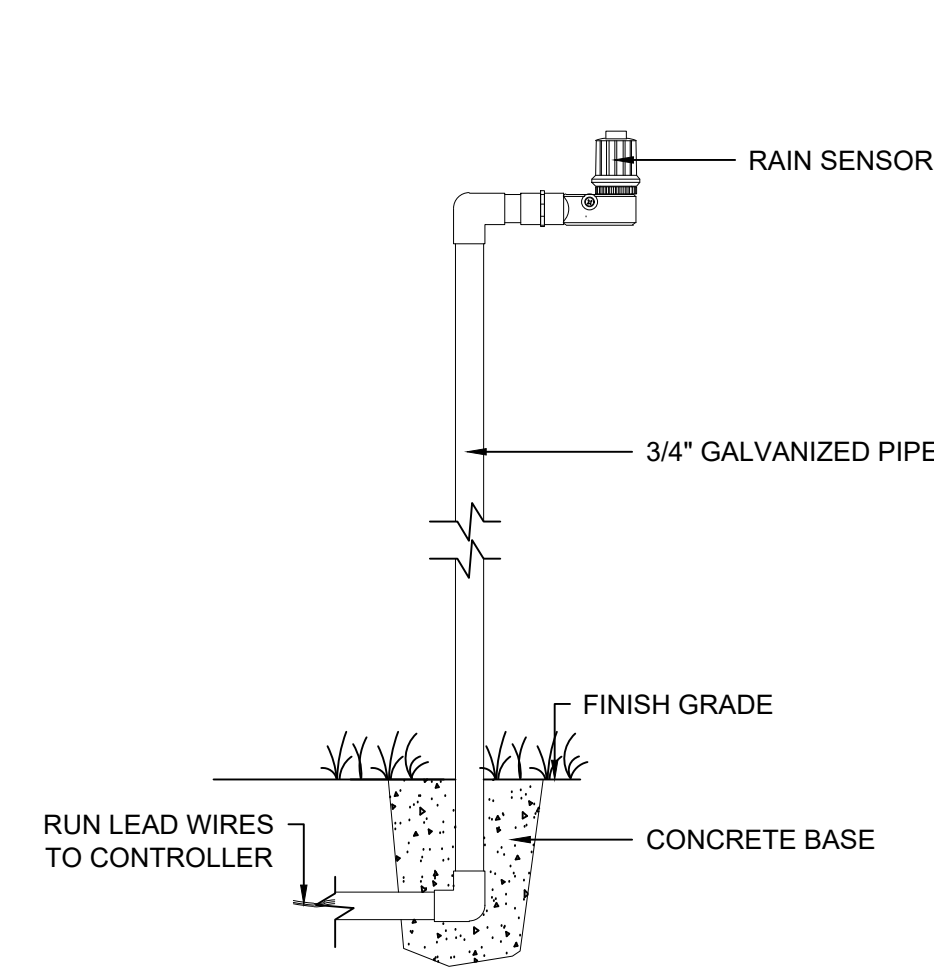
* ALL PIPING SHALL BE SIZED TO MATCH IRRIGATION MAINLINE UNLESS OTHERWISE NOTED. ABOVE GROUND PIPE SHALL BE GALVANIZED, BELOW GROUND PIPE SHALL BE CLASS 200 PVC.



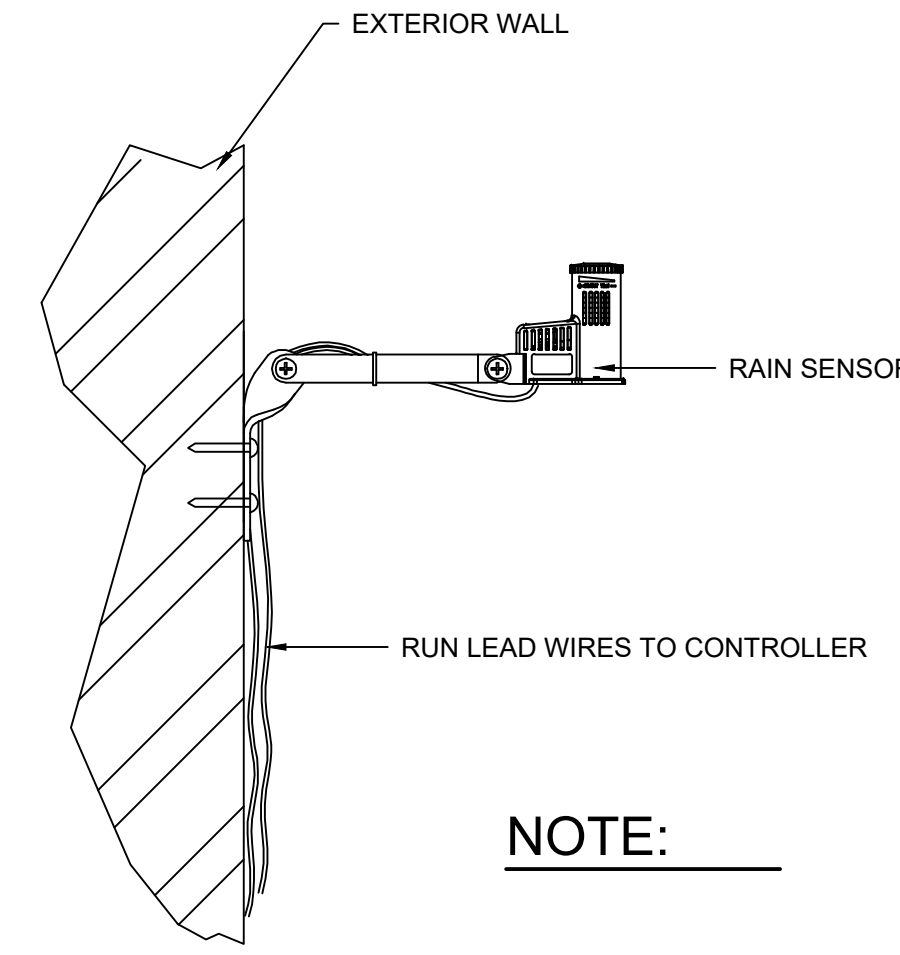
1 TYPICAL IRRIGATION WELL AND VFD PUMP STATION
NTS

LEGEND

- ① 4" OR 5" WELL CASING
- ② OPEN HOLE (DEPTH TBD)
- ③ SUBMERSIBLE PUMP WITH THREE PHASE MOTOR (CONTRACT SHALL DETERMINE APPROPRIATE PUMP CAPABILITIES)
- ④ DROP PIPE (GALV. SCH 40)
- ⑤ JUNCTION BOX
- ⑥ SUBMERSIBLE CABLE
- ⑦ GALVANIZED TEE
- ⑧ WELL SEAL
- ⑨ 2" DIELECTRIC NIPPLE
- ⑩ GALVANIZED UNION
- ⑪ CLA-VAL #55F PRESSURE RELIEF VALVE (3/4")
- ⑫ CONTROL PANEL
- ⑬ (1") BRASS BALL VALVE
- ⑭ GALVANIZED PIPE
- ⑮ GALVANIZED ELBOW
- ⑯ PVC ADAPTER
- ⑰ IRRIGATION MAINLINE (SIZE AS PER PLANS)
- ⑱ 2" AMIAD SUPER T 100 MESH FILTER
- ⑲ 200 PSI PRESSURE GAUGE (LIQUID FILLED)
- ⑳ GATE VALVE
- ㉑ 20-GALLON PRESSURE TANK (ABOVE GROUND)
- ㉒ BACKFLOW DEVICE PER LOCAL CODE
- ㉓ PRESSURE TRANSDUCER (INCLUDED IN SPD PACKAGE)
- ㉔ TRANSDUCER CABLE (INCLUDED WITH TRANSDUCER)
- ㉕ PIPE SUPPORTS, (2) REQUIRED FOR LARGE PIPE AND (1) FOR 2" PIPE
- ㉖ GALVANIZED NIPPLE
- ㉗ SCHEDULE 80 PVC UNION
- ㉘ THREE PHASE POWER FROM VFD TO MOTOR
- ㉙ 1" X 1/2" GALVANIZED TEE



2 TYPICAL RAIN SENSOR
NTS



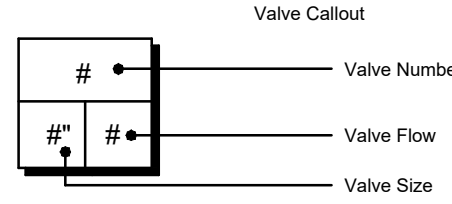
NOTE:

GENERAL IRRIGATION NOTES:

- SCOPE OF WORK: THE WORK CONSISTS OF THE PREPARATION OF DESIGN DOCUMENTS AND INSTALLING A COMPLETE UNDERGROUND IRRIGATION SYSTEM, INCLUDING THE FURNISHING OF ALL LABOR, EQUIPMENT, PERMITS, MATERIALS, AND THE PERFORMANCE OF ALL OPERATIONS IN CONNECTION WITH THE CONSTRUCTION OF THE IRRIGATION SYSTEM. IT SHALL INCLUDE FURNISHING AND INSTALLING ALL PLASTIC AND GALVANIZED STEEL PIPE AND FITTINGS, AUTOMATIC CONTROL VALVES, RAIN / MOISTURE SENSING DEVICES, PRESSURE RELIEF VALVES, CHECK VALVES, VALVE BOXES, ELECTRIC CONTROLLERS, FLOAT SWITCHES, ELECTRIC WIRES, PUMPS, PRESSURE TRANSDUCERS, PUMP INTAKE AND SUCTION SYSTEM, NECESSARY MOTOR STARTERS, RELAYS, ETC. AS CALLED FOR IN THESE SPECIFICATIONS, OR AS MAY BE REQUIRED FOR PROPER OPERATION OF THE SYSTEM.
 - POINT OF CONNECTION SHALL BE A PUMP AND WELL. SPECIFIC LOCATION TO BE IDENTIFIED BY OWNER'S REPRESENTATIVE
 - LIMITS OF IRRIGATION: PROVIDE 100% COVERAGE OF ALL PREPARED PLANTING BEDS AS SHOWN ON THE DRAWINGS WITH TREES, SHRUBS, AND GROUND COVERS. TREES ISOLATED IN LAWN AREAS SHALL BE PROVIDED WITH A BUBBLER AND ZONED INDEPENDENTLY. SOD AND/OR SEEDED AREAS AS IDENTIFIED IN PLANTING PLANS ARE INTENDED TO BE PROVIDED WITH 100% IRRIGATION COVERAGE.
 - IRRIGATION TO MEET CITY OF NEW PORT RICHEY IRRIGATION STANDARDS AS WELL AS ANY OTHER APPLICABLE MUNICIPAL AND STATE LAWS AND RULES AND REGULATIONS GOVERNING OR RELATING TO ANY PORTION OF THIS WORK. THESE LAWS, RULES, AND REGULATIONS ARE HEREBY INCORPORATED INTO AND MADE A PART OF THESE SPECIFICATIONS, AND THEIR PROVISIONS SHALL BE CARRIED OUT BY THE IRRIGATION SUBCONTRACTOR. ANYTHING CONTAINED IN THESE SPECIFICATIONS SHALL NOT BE CONSTRUED TO CONFLICT WITH ANY OF THE ABOVE-MENTIONED RULES, REGULATIONS OR REQUIREMENTS, AND SHOULD A CONFLICT OCCUR, THE RULES OR REQUIREMENTS OF THE GOVERNING CODE SHALL BE ADHERED TO. HOWEVER, WHEN THESE SPECIFICATIONS CALL FOR OR DESCRIBE MATERIALS, WORKMANSHIP, OR CONSTRUCTION OF A BETTER QUALITY, HIGHER STANDARD OR LARGER SIZE, THESE SPECIFICATIONS AND/OR APPROVED DRAWINGS SHALL TAKE PRECEDENCE OVER THE REQUIREMENTS OF SAID RULES, REGULATIONS OR CODES.
 - ANY PERMITS FOR THE INSTALLATION OR CONSTRUCTION OF ANY OF THE WORK INCLUDED UNDER THIS CONTRACT, WHICH ARE REQUIRED BY ANY OF THE LEGALLY CONSTITUTED AUTHORITIES HAVING JURISDICTION, SHALL BE OBTAINED AND PAID FOR BY THE IRRIGATION SUBCONTRACTOR. PRIOR TO COMMENCEMENT OF HIS OPERATIONS ON SITE, COPIES OF PERMIT SHALL BE SENT TO OWNER'S REPRESENTATIVE.
 - DESIGN PLANS: THE LANDSCAPE IRRIGATION SUBCONTRACTOR SHALL SUBMIT DESIGN DRAWINGS FOR REVIEW AND APPROVAL 35 DAYS PRIOR TO INSTALLATION TO THE RLA. DRAWINGS SHALL BE LEGIBLE AND PREPARED AT A SCALE SUITABLE FOR CONSTRUCTION. PLANS SHALL INCLUDE LEGEND, WATER SOURCE, POINT(S) OF CONNECTION, DESIGN OPERATING PRESSURE, AND FLOW RATE PER ZONE. AVERAGE APPLICATION RATE PER ZONE IN GALLONS PER MINUTE, WATERING SCHEDULE, LOCATIONS OF PIPE AND SLEEVES WITH SIZES INDICATED, CONTROLLERS, VALVES, SPRINKLERS, BACKFLOW PREVENTION DEVICE, ELECTRICAL SUPPLY, ROADWAYS, SIDEWALKS, STRUCTURES AND OTHER RELEVANT SITE CONDITIONS.
 - PRIOR TO PURCHASING, CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ALL PROPOSED MATERIALS INCLUDING BUT NOT LIMITED TO PUMP, WELL, BACKFLOW PREVENTER, CONTROLLER, PIPE, FITTINGS, SLEEVES, ETC.
 - HEAD PLACEMENT SHOULD ALWAYS BE DONE WHILE TAKING INTO CONSIDERATION:
 - WHAT IS THE BEST FOR THE GROWTH AND MAINTENANCE OF THE PLANT MATERIAL
 - MAINTAINING A CONSTANT AND EVEN DISTRIBUTION AND PRECIPITATION RATE
 - THE SPACING BETWEEN HEADS SHALL NOT BE THE DIAMETER FOR HEADS SPACED ON A SQUARE PATTERN OR 60% OF THE DIAMETER FOR HEADS SPACED ON A TRIANGULAR PATTERN.
 - AUTOMATIC CONTROL TIMER, PUMP/WELL ASSEMBLY, BACKFLOW PREVENTER, AND RAIN SENSOR LOCATIONS TO BE VERIFIED WITH OWNER'S REPRESENTATIVE.
 - FIELD ALTERATIONS MADE IN THE IRRIGATION CONTRACT DRAWING MUST BE IN THE BEST INTEREST OF THE PLANT MATERIAL AND LANDSCAPE IRRIGATION SYSTEM. CHANGES MADE BY THE IRRIGATION CONTRACTOR WHICH ARE DEEMED BY THE OWNER AND/OR OWNER'S REPRESENTATIVE, NOT TO BE IN THIS CRITERIA WILL BE REMOVED AND REPLACED AT THE IRRIGATION CONTRACTOR'S EXPENSE. IF A QUESTION SHOULD ARISE AS TO THE BEST WAY TO COMPLETE A FIELD ALTERATION, CONTACT OWNER'S REPRESENTATIVE FOR APPROVAL.
 - THE CONTRACTOR SHALL STAKE OUT THE LOCATION OF EACH RUN OF PIPE, DRIP IRRIGATION ARRAYS AND VALVES PRIOR TO TRENCHING. TRENCHES FOR PIPES SHALL BE CUT TO THE LENGTH AND MAINTENANCE OF THE PLANT MATERIAL.
 - THE IRRIGATION AND LANDSCAPE CONTRACTORS SHALL COORDINATE THE PLACEMENT OF THE IRRIGATION EQUIPMENT AND LANDSCAPE MATERIAL WITHIN THE PLANTED AREA. THE IRRIGATION CONTRACTOR SHALL INSTALL HIS MATERIAL AT THE EDGE OF THE PLANTED AREAS AVOIDING PLANTS, ROOT BALLS, LIGHTS, BOLLARDS, FENCES, ETC.
 - OPEN CUTS IN ASPHALT AND WALKS ARE NOT PERMITTED. TRENCHES MUST BE PROTECTED FROM VEHICLE AND PEDESTRIAN TRAFFIC AT ALL TIMES. IT WILL BE THE IRRIGATION CONTRACTOR'S RESPONSIBILITY TO BARRICADE AND DIVERT TRAFFIC. ALL TRENCHES SHALL BE CLOSED AT THE END OF EACH WORKDAY.
 - SLEEVES UNDER ROADWAYS AND SIDEWALKS ARE THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR AND SHALL BE INSTALLED, IF POSSIBLE, PRIOR TO ANY PAVING. SLEEVING DEPTH TO BE A MINIMUM OF 36" FROM TOP OF PIPE TO FINISHED GRADE BELOW ALL ROADWAYS. SLEEVING BENEATH SIDEWALKS SHALL BE LOCATED AND PROVIDED BY THE IRRIGATION CONTRACTOR. SLEEVING SIZES TO BE INSTALLED PER PLANS OR TWO TIMES LARGER THAN THE PIPE TO BE PLACED INSIDE THE SLEEVE, WHICHEVER IS GREATER. SLEEVING MATERIAL TO BE SCHEDULE 40 PVC. SLEEVE ALL WIRE CROSSINGS EITHER IN CONDUIT OR IN SCHEDULE 40 PVC PIPE (IF CONTROL WIRE IS DIRECT BURIAL).
 - ALL TRENCHES WITHIN FIFTEEN FEET (15') OF EXISTING TREES TO BE HAND EXCAVATED TO AVOID CONFLICTS WITH TREES.
 - NO ROOTS SHALL BE CUT WITHIN A FIFTEEN FOOT (15') RADIUS OF ALL EXISTING TREES. IRRIGATION PIPES AND CONDUIT SHOULD BE DIRECTIONAL BORED WITHIN THIS AREA.
 - CONTRACTOR SHALL COORDINATE ELECTRICAL AND WATER REQUIREMENTS AND POINT OF CONNECT WITH OWNER'S REPRESENTATIVE.
 - ALL PIPE SHALL BE SIZED SO AS NOT TO EXCEED 5 FPS.
 - INITIAL BACKFILL ON PVC LINE SHALL BE PULVERIZED NATIVE SOIL, FREE OF FOREIGN MATTER. SOIL OR SAND WITHIN 4" OF UNDERGROUND PIPING SHALL BE CLEAN. PLANT LOCATIONS SHALL TAKE PRECEDENCE OVER SPRINKLER AND PIPE LOCATIONS. THE CONTRACTOR SHALL COORDINATE THE PLACING OF THE SPECIMEN TREES AND SHRUBS WITH THE ROUTING OF LINES AND FINAL HEAD LOCATIONS.
 - RECORD DRAWINGS: AFTER FINAL ACCEPTANCE OF THE COMPLETED INSTALLATION, THE SUBCONTRACTOR SHALL BE RESPONSIBLE FOR THE PREPARATION OF COMPLETE, REPRODUCIBLE, RECORD DRAWINGS FOR SUBMITTAL TO THE OWNER. PLANS SHALL INCLUDE ANY FIELD CHANGES OR DEVIATIONS FROM THE ORIGINAL, APPROVED DESIGN DOCUMENTS WITH TWO SCALED POINTS OF REFERENCE FOR EACH ITEM.
 - CONTRACTOR SHALL SUPPLY ZONE MAP, PRECIPITATION RATES, ANY KEYS, OPERATING MANUALS, WARRANTIES, COPY OF THE CONTROLLER SCHEDULE, AND EXACT EQUIPMENT PARTS BREAKOUTS WITH MODEL NUMBERS, ETC. IN A 3-RING BINDER TO OWNER'S REPRESENTATIVE UPON COMPLETION OF THE PROJECT.
 - THE DRAWINGS ARE TO BE CONSIDERED DIAGRAMMATIC. THE LOCATIONS OF THE EQUIPMENT SHALL BE COORDINATED IN THE FIELD, AND ADJUSTED AS NECESSARY TO AVOID CONFLICTS, AND TO REACT TO FIELD VARIABLES. DUE TO SMALL SCALE OF DRAWINGS, IT IS OFTEN NECESSARY TO SHOW PIPING OR OTHER ELEMENTS OUTSIDE RIGHTS-OF-WAY OR IN PAVEMENT AREAS. THE INSTALLATION OF ALL PIPING AND OTHER EQUIPMENT SHALL BE IN PERVIOUS AREAS AND WITHIN RIGHTS-OF-WAY UNLESS IT IS SPECIFICALLY NOTED TO THE CONTRARY.
- ELECTRICAL SUPPORT FOR LANDSCAPE IRRIGATION SYSTEM:
- FURNISH ALL LABOR, MATERIAL, EQUIPMENT AND INCIDENTALS REQUIRED AND INSTALL, PLACE IN OPERATION AND FIELD TEST ALL OPERATIONS IN CONNECTION WITH THE INSTALLATION OF THE ELECTRICAL FACILITIES REQUIRED FOR CONTROL WIRING FOR THE UNDERGROUND ELECTROMECHANICALLY CONTROLLED IRRIGATION SYSTEM, COMPLETE, AND IN STRICT ACCORDANCE WITH THIS SECTION OF THE SPECIFICATIONS, THE APPLICABLE DRAWINGS, AND SUBJECT TO THE TERMS AND CONDITIONS OF THE CONTRACT.
 - THE CONTROLLERS FOR THE IRRIGATION VALVES SHALL BE INSTALLED AND WIRED, COMPLETE UNDER THIS SECTION. THE ELECTRICAL CONTRACTOR SHALL BRING WIRING AND CONNECTIONS TO A LOCATION APPROVED BY THE OWNER'S REPRESENTATIVE FOR THE CONTROL PANEL(S), AND SHALL PROVIDE 110 VOLT CONNECTION FROM THE POWER SOURCE TO THE CONTROLLERS. (THE LOW VOLTAGE CONTROL WIRING SHALL BE RUN UNDERGROUND TO THE RESPECTIVE REMOTE VALVES BY THE IRRIGATION CONTRACTOR).
 - THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR CONNECTING AND VERIFYING THE IRRIGATION CONTROLLERS TO BE OPERATIONAL. THE IRRIGATION CONTRACTOR IS ULTIMATELY RESPONSIBLE FOR PROVIDING A FULLY OPERATIONAL SYSTEM.
 - THE ELECTRICAL CONTRACTOR SHALL COORDINATE HIS WORK WITH THE IRRIGATION CONTRACTOR, GENERAL CONTRACTOR AND OTHER SUB-CONTRACTORS.
 - QUALITY ASSURANCE: ALL WORK SHALL BE PERFORMED BY AN ELECTRICIAN LICENSED IN THE STATE OF FLORIDA AND ALL WORK SHALL COMPLY WITH APPLICABLE NFPA REQUIREMENTS.
 - MATERIALS: ALL MATERIALS FURNISHED UNDER THIS CONTRACT SHALL BE NEW AND SHALL CONFORM TO THE FOLLOWING REQUIREMENTS:
 - UNDERGROUND CONDUIT: SHALL BE RIGID SCHEDULE 80 PVC, EQUAL TO TYPE 80 HEAVY WALL RIGID PVC-CONDUIT SIZED TO PROVIDE EASY WIRE PULL WITH A MIN. 1 INCH INSIDE DIAMETER. ALL JOINTS SHALL BE SOLVENT WELDED IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE MANUFACTURER. CONDUIT FITTINGS, ELBOWS, SWEEPS AND CEMENT SHALL BE PROVIDED BY THE SAME MANUFACTURER.
 - CONDUIT FOR 120 AND 277 VOLT CIRCUITS SHALL BE SCHEDULE 80 ELECTRICAL CONDUIT.
 - RIGID METAL CONDUIT: EXPOSED CONDUIT SHALL BE GALVANIZED RIGID METAL CONDUIT INSTALLED WITH CAST METAL, FITTINGS.
 - CONDUCTORS FOR LOW VOLTAGE CONTROL CIRCUITS (BELOW 240V): ALL WIRING USED FOR INTERCONNECTING THE AUTOMATIC REMOTE CONTROL VALVES FOR IRRIGATION WITH THE AUTOMATIC CONTROLLERS SHALL BE SINGLE STRANDED OR SOLID COPPER CONDUCTORS WITH TYPE UF, 600 VOLT INSULATION WHICH SHALL BEAR THE UL APPROVAL FOR DIRECT UNDERGROUND BURIAL FEEDER CABLE.
 - INSULATION SHALL BE 484 INCH THICK MINIMUM COVERING OF AN APPROVED THERMOPLASTIC COMPOUND FOR POSITIVE WATERPROOF PROTECTION OF SIZE 12 THROUGH AND INCLUDING SIZE 10 AWG.
 - WIRE CONNECTORS: CONNECTIONS TO REMOTE CONTROL IRRIGATION VALVES AND ALL SPLICES IN THE WIRING FOR SUCH VALVES SHALL BE MADE WITH WATERPROOF CONNECTORS AND SEALING CEMENT EQUAL TO RAIN BIRD SNAP-TITE CONNECTORS, MODEL ST-03.
 - ALL VALVE CONTROL WIRES SHALL BE MINIMUM NO. 14 GAUGE UF, AND ALL COMMON GROUND WIRES SHALL BE MINIMUM NO. 14 GAUGE UF, COLOR CODED USING WHITE. ALL CONTROL WIRING SHALL BE COLOR CODED USING WHITE FOR THE COMMON WIRE AND SELECTED COLORS FOR THE CONTROL WIRES. GREEN COLOR WIRE SHALL NOT BE USED. ALL SPLICE CONNECTIONS SHALL BE MADE IN A JUNCTION BOX AND FULL BOX MARKED ON SHOP DRAWINGS FOR ACCESSIBILITY. ALL AREAS OF 90 DEGREE TURNS SHALL BE MADE WITH ELECTRICAL SWEEP ELBOWS.
 - MISCELLANEOUS DEVICES, MISCELLANEOUS FITTINGS AND DEVICES NOT COVERED IN THE ABOVE SPECIFICATIONS SHALL BE AS REQUIRED FOR A COMPLETE INSTALLATION.

IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	PSI
▲ 25 50 ▲ 10 20	HUNTER PCB FLOOD BUBBLER, 1/2IN. FIPT.	7	20
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	PSI
■	HUNTER ICZ-101-25 1" DRIP CONTROL ZONE KIT. 1IN. ICV GLOBE VALVE WITH 1IN. HY100 FILTER SYSTEM. PRESSURE REGULATION: 25PSI. FLOW RANGE: 2 GPM TO 20 GPM. 150 MESH STAINLESS STEEL SCREEN.	5	
●	PIPE TRANSITION POINT IN DRIP BOX PIPE TRANSITION POINT FROM PVC LATERAL TO DRIP TUBING WITH RISER IN 6IN. DRIP BOX.	9	
▨	AREA TO RECEIVE DRIPLINE HUNTER HDL-09-12-CV HDL-09-12-CV HUNTER DRIPLINE W/ 0.9 GPH EMITTERS AT 12" O.C. CHECK VALVE, DARK BROWN TUBING W/ BLACK STRIPING, DRIPLINE LATERALS SPACED AT 12" APART, WITH EMITTERS OFFSET FOR TRIANGULAR PATTERN. INSTALL WITH HUNTER PLD BARBED OR PLD-LOC FITTINGS.	416.1 S.F.	
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	PSI
●	HUNTER ICV-G 1" 1", 1-1/2", 2", AND 3" PLASTIC ELECTRIC REMOTE CONTROL VALVES, GLOBE CONFIGURATION, WITH NPT THREADED INLET/OUTLET, FOR COMMERCIAL/MUNICIPAL USE.	4	
●	FEBCO 825Y 2" REDUCED PRESSURE BACKFLOW PREVENTER	5	
■	HUNTER P2C-400 LIGHT COMMERCIAL & RESIDENTIAL CONTROLLER, 4-STATION BASE MODULE CONTROLLER, 120 VAC, OUTDOOR/INDOOR MODEL	5	
■	WATER METER 1-1/2"	1	
---	IRRIGATION LATERAL LINE: PVC CLASS 200 SDR 21 3/4"	857.7 L.F.	
---	IRRIGATION MAINLINE: PVC CLASS 200 SDR 21	25.3 L.F.	
---	PIPE SLEEVE: PVC SCHEDULE 40	28.0 L.F.	



VALVE SCHEDULE

NUMBER	MODEL	SIZE	TYPE	GPM	WIRE	PSI	PSI @ POC	PRECIP
1	HUNTER ICZ-101-25	1"	AREA FOR DRIPLINE	0.98	18.1	1.44 in/h		
2	HUNTER ICV-G	1"	BUBBLER	0.5	22.0	1.7 in/h		
3	HUNTER ICZ-101-25	1"	AREA FOR DRIPLINE	1.04	18.1	1.44 in/h		
4	HUNTER ICV-G	1"	BUBBLER	0.5	22.0	1.7 in/h		
5	HUNTER ICZ-101-25	1"	AREA FOR DRIPLINE	1	23.0	1.7 in/h		
6	HUNTER ICV-G	1"	AREA FOR DRIPLINE	1.19	17.1	1.44 in/h		
7	HUNTER ICV-G	1"	BUBBLER	1.5	22.2	1.7 in/h		
8	HUNTER ICZ-101-25	1"	AREA FOR DRIPLINE	2.06	18.3	1.45 in/h		
9	HUNTER ICZ-101-25	1"	AREA FOR DRIPLINE	1.11	18.0	1.44 in/h		
	Common Wire				25.3			

CRITICAL ANALYSIS

Water Source Information:

Flow Available: 181.94 GPM
Point of Connection Size: 3"
Flow Available: 181.94 GPM

Pressure Available:
Static Pressure at POC: 65 PSI
Pressure Available: 65 PSI

DESIGN ANALYSIS
Maximum Station Flow: 100 GPM
Flow Available at POC: 181.94 GPM
Residual Flow Available: 81.94 GPM

Pressure Req. at Critical Station: 0 PSI
Loss for Fittings: 0 PSI
Loss for Main Line: 0 PSI
Loss for POC to Valve Elevation: 0 PSI
Loss for Backflow: 0 PSI
Critical Station Pressure at POC: 0 PSI
Pressure Available: 65 PSI
Residual Pressure Available: 65 PSI

POCKET PARKS

CITY OF MADEIRA BEACH
MADEIRA BEACH, FL.



REVISION NO.	DATE	DESCRIPTION

PRELIMINARY
FOR INTERIM REVIEW ONLY

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MARTIN STEFFEN, FLA 6667386
NAME LICENSE NO.
1/9/2024
DATE
2600036 FL
FIRM / BUSINESS NO. STATE

PROJECT NO.:	38545.001
ISSUED:	OCTOBER 2023
DRAWN BY:	IG
CHECKED BY:	LMD
SCALE:	1" = 10'
SHEET TITLE	IRRIGATION DETAILS AND NOTES
	IR-502

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