CITY OF TAMPA, FLORIDA

PLANS FOR

Contract 26-C-00013 Hubert Avenue Park Improvements

Plans_Landscape

These Plans for the referenced projects come from uncontrolled sources and do not conform to WCAG 2.1 at level AA. Individuals with disabilities seeking assistance with the individual project plans or specifications should e-mail Contractadministration@tampagov.net.

City of Tampa

Contract Administration Department

Tampa Municipal Office Building

306 E Jackson Street #280A4N Fourth Floor

Tampa, Florida 33602

JUNE 2026

HUBERT AVENUE PARK & RIGHT-OF-WAY IMPROVEMENTS

PROJECT LOCATION IN
TAMPA, FLORIDA
SECTION 9 / TOWNSHIP 29 SOUTH / RANGE 18 EAST

BID SET

15 MAY 2026

PREPARED BY:

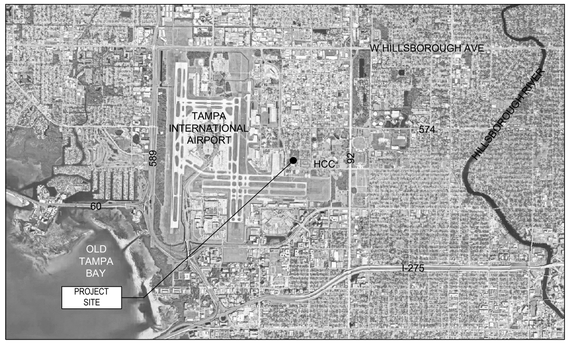
PlaceMaker Design Studio, LLC
Urban Design • Landscape Architecture • Land Planning

TEAM LEAD + LANDSCAPE ARCHITECT
PlaceMaker Design Studio, LLC
415 Plaza Drive · Dunedin, Florida 34698

CIVIL ENGINEER
High Point Engineering, Inc. (HPE)
5005 W. Laurel Street, Suite 201 · Tampa, Florida 33609

ELECTRICAL ENGINEER
MES GROUP
550 North Reo Street, Suite 203 · Tampa, Florida 33609

SURVEYOR
TRANSYSTEMS
565 South Hercules Avenue, Clearwater, Florida 33764



PROJECT LOCATION
N.T.S.

NORTH

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PREPARED FOR:

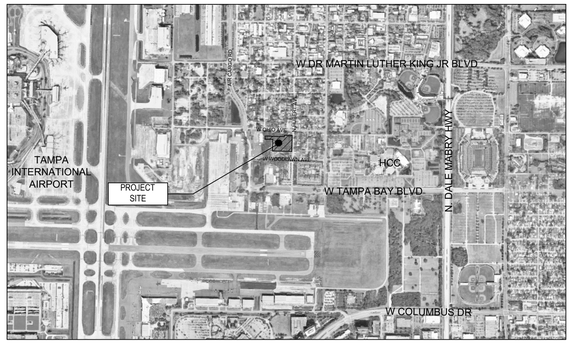
City of Tampa Florida

Parks&Recreation CITY OF TAMPA

TAMPACRA STRENGTHENING COMMUNITIES

City of Tampa
306 East Jackson Street
Tampa, Florida 34602

CONTRACTOR SHALL CALL
"SUNSHINE STATE ONE CALL" OF FLORIDA AT 1-800-432-4770
A MINIMUM OF 2 AND A MAXIMUM OF 5 BUSINESS DAYS PRIOR TO START OF CONSTRUCTION.



PROJECT SITE MAP
N.T.S.

NORTH

Prepared By:

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Urban Design • Landscape Architecture • Land Planning

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Prepared For:

City of Tampa
306 East Jackson Street
Tampa, Florida 33602

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Hubert Avenue Park & Right-Of-Way Improvements

4106, 4108, & 4110 N. Hubert Ave + 4115 N. Manhattan Ave
Tampa, Florida

Seal

BID SET

REV	DATE	DESCRIPTION
1		
2		
3		
4		
5		

Date:	**MAY 15, 2026**
Job No.:	**8702**
Drawn By:	**GLA**
Checked By:	**CJA**

Sheet Title

COVER

Sheet No.

0

GENERAL CONSTRUCTION INSTALLATION NOTES

1. PERMITS: THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY CONSTRUCTION PERMITS AND PAYING ALL PERMIT FEES REQUIRED TO CONSTRUCT THIS PROJECT. THE CONTRACTOR SHALL ALSO OBTAIN FROM THE OWNER COPIES OF ALL NECESSARY REGULATORY PERMITS AND LOCAL AGENCY PERMITS PRIOR TO COMMENCEMENT OF CONSTRUCTION. ALL PERMITS MUST BE IN-HAND PRIOR TO CONSTRUCTION AND MUST BE KEPT ON SITE. CONTRACTOR SHALL ADHERE TO ALL PERMITS, CODES, SETBACKS AND BUILDING REQUIREMENTS OF ALL AGENCIES HAVING JURISDICTION OVER THE PROJECT.
2. CONTRACTOR SHALL VERIFY SITE BOUNDARY AND TOPOGRAPHIC/SURVEY INFORMATION AND NOTIFY PLACEMAKER DESIGN STUDIO, LLC OF ANY DISCREPANCIES PRIOR TO SUBMITTING PRICES OR ORDERING MATERIALS. ALL FIELD ADJUSTMENTS REQUIRE WRITTEN APPROVAL OF LANDSCAPE ARCHITECT AND/OR THE OWNERS REPRESENTATIVE PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. PROPERTY LINE TO BE LOCATED AND FLAGGED IN THE FIELD PRIOR TO COMMENCEMENT OF ANY WORK. STAKING OF ALL SITE ELEMENTS TO BE APPROVED BY THE LANDSCAPE ARCHITECT AND/OR OWNER'S REPRESENTATIVE PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. ALL REQUIRED REVISIONS, RELOCATIONS, AND/OR RE-STAKING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR IF VERIFICATION OF AND APPROVAL ARE NOT OBTAINED PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. THE LAYOUT TO INITIATE AT THE ORIGIN POINT / DIMENSION MARK ARE TO BE LOCATED IN THE FIELD BY SURVEY METHOD IF NOT EXISTING.
3. EXISTING ITEMS AND CONDITIONS ARE DEPICTED AND DESCRIBED ON THESE DRAWINGS ACCORDING TO THE BEST AVAILABLE INFORMATION AND SURVEYS. THE LANDSCAPE ARCHITECT PROVIDES NO ASSURANCE AS TO, AND ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THESE DEPICTIONS AND DESCRIPTIONS. FIELD VERIFY AND DETERMINE, BY ANY MEANS NECESSARY, THE ACTUAL LOCATION, CONFIGURATION AND CONDITION OF ALL PERTINENT ITEMS, INCLUDING THOSE THAT MAY BE IN CONCEALED LOCATIONS. IF INVESTIGATION DISCOVERS THAT ACTUAL CONDITIONS DIFFER FROM WHAT IS DEPICTED OR DESCRIBED ON THESE DRAWINGS OR IF THE ITEMS AND CONDITIONS THAT ARE TO REMAIN AS PART OF THE FINISHED WORK ARE UNSUITABLE TO SUPPORT OR ACCOMMODATE THE WORK REQUIRED FOR THIS PROJECT, OR DO NOT COMPLY WITH BUILDING CODE REQUIREMENTS OR MEET CONSTRUCTION INDUSTRY STANDARDS, IMMEDIATELY NOTIFY THE LANDSCAPE ARCHITECT BY RFI AND DO NOT PROCEED WITH THE WORK UNTIL RECEIPT OF SUPPLEMENTAL INSTRUCTIONS FROM THE LANDSCAPE ARCHITECT.
4. PROJECT LANDSCAPE ARCHITECT OR PLACEMAKER DESIGN STUDIO, LLC SHALL NOT HAVE AUTHORITY OVER THE SITE OR BUILDING CONTRACTOR'S WORK OR RESPONSIBILITIES. PROJECT LANDSCAPE ARCHITECT OR PLACEMAKER DESIGN STUDIO, LLC IS NOT RESPONSIBLE FOR MEANS AND METHODS OF CONSTRUCTION OR SITE SAFETY PROCEDURES.
5. ALL EXISTING UTILITIES SHOWN ON THESE DRAWINGS ARE APPROXIMATE AND OTHER UTILITIES MAY EXIST. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CALL SUNSHINE811 PRIOR TO ANY DEMOLITION, DIGGING, OR CONSTRUCTION ACTIVITIES. CONTRACTOR MUST HAVE EXISTING UTILITIES LOCATED BY UNDERGROUND LINE LOCATORS AND FIELD VERIFIED BY ONSITE PERSONNEL PRIOR TO ORDERING MATERIALS OR COMMENCING CONSTRUCTION. ANY DISCREPANCIES SHALL BE REPORTED TO PLACEMAKER DESIGN STUDIO, LLC. ANY DAMAGE TO AND/OR CAUSED BY BROKEN UTILITIES DURING THE COURSE OF CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE COST TO REPAIR UTILITIES OR DAMAGE RESULTING FROM DAMAGED UTILITIES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. REPORT ANY SUCH DAMAGE IMMEDIATELY TO OWNER'S REPRESENTATIVE AND LANDSCAPE ARCHITECT.
6. WHEN FIELD CONDITIONS MERIT DEVIATIONS FROM THE REQUIREMENTS OF THESE PLANS OR OTHER CONTRACT DOCUMENTS, THE CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT IN WRITING AT THE TIME OF DISCOVERY. IT SHALL BE SOLELY THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THE PROTECTION OF ADJACENT PROPERTIES AND EXISTING ON OR OFF SITE STRUCTURES, UTILITIES, AND OTHER IMPROVEMENTS TO REMAIN; AND IT SHALL BE SOLELY THE CONTRACTOR'S RESPONSIBILITY TO REPAIR ANY DAMAGE CAUSED BY THE CONSTRUCTION ACTIVITIES ASSOCIATED WITH THIS PROJECT. CONTRACTOR SHALL NOT INSTALL OR CONSTRUCT ITEMS WHEN IT IS APPARENT IN THE FIELD THAT UNKNOWN OBSTRUCTIONS, OR DIFFERENCES IN THE GRADES OR EXISTING CONDITIONS THAT DO NOT APPEAR TO BE HAVE BEEN CONSIDERED DURING THE DESIGN PHASE. CONTRACTOR SHALL IMMEDIATELY BRING THESE DIFFERENCES AND OBSTRUCTIONS TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE. CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY REVISIONS NECESSARY TO CORRECT THE CONDITION IF THIS NOTICE IS NOT PERFORMED.
7. CONTRACTOR SHALL COORDINATE WITH ALL OTHER TRADES AND PROTECT ALL EXISTING AND NEWLY CONSTRUCTION SITE ELEMENTS. CONTRACTOR IS RESPONSIBLE FOR THE REPAIR OR DAMAGE TO ANY EXISTING OR CONSTRUCTED ELEMENTS DURING THE CONSTRUCTION OF THE PROJECT. REPAIR OF ANY DAMAGED ELEMENTS SHALL BE AT THE EXPENSE OF THE CONTRACTOR.
8. THE SCOPE OF WORK DEPICTED AND INFERRED IN THESE DRAWINGS SHALL INCLUDE, BUT ARE NOT LIMITED TO, ALL LABOR, MATERIALS, SUPPLIES, AND EQUIPMENT NECESSARY TO CONSTRUCTION AND INSTALL THE DESCRIBED DESIGN ELEMENTS INDICATED IN THESE PLANS, DETAILS, AND SPECIFICATIONS.
9. DAILY AND FINAL SITE CLEANUP AND HAUL OFF OF CONSTRUCTION RELATED DEBRIS IS THE RESPONSIBILITY OF THE CONTRACTOR.
10. ALL FORMS AND ALIGNMENT OF PAVING, PILASTERS, CURBS, AND WALLS SHALL BE INSPECTED AND APPROVED BY THE OWNER'S REPRESENTATIVE PRIOR TO POURING (GIVE A MINIMUM OF 48 HOURS NOTICE).
11. CONTRACTOR SHALL REFER TO PROJECT GEOTECHNICAL ENGINEERING SERVICES REPORT FOR PERCENTAGES OF COMPACTION REQUIRED FOR ALL CONCRETE FLATWORK AND FOOTINGS.
12. ESTABLISH AREAS AND LIMITS OF CONSTRUCTION ACTIVITY ACCEPTABLE TO THE OWNER AND PROVIDE THE TEMPORARY FACILITIES REQUIRED TO ACCOMPLISH THE WORK INCLUDING; FIELD OFFICE, TOILETS, ELECTRIC SERVICE, SITE ACCESS, PARKING, STORAGE AND CONSTRUCTION STAGING AREAS. PROVIDE TEMPORARY WALKWAYS, DRIVEWAYS, BARRIERS, SIGNS AND ILLUMINATION TO SEPARATE AND PROTECT THE GENERAL PUBLIC FROM THE WORK RELATED ACTIVITIES. PROVIDE ACCESS ROUTES TO AND FROM AREAS OF CONSTRUCTION ACTIVITY FOR CONSTRUCTION PERSONNEL THAT COMPLY WITH ALL OSHA AND OTHER GOVERNMENT SAFETY AND ACCESSIBILITY REQUIREMENTS. ASSUME FULL LIABILITY FOR ANY DAMAGE TO ADJACENT PROPERTIES, DAMAGE TO PERSONAL PROPERTY, INJURY TO PERSONS, ETC. CAUSED BY WORK RELATED ACTIVITIES OR NEGLIGENCE.
13. REMOVE CONSTRUCTION DEBRIS, INCLUDING DEMOLISHED MATERIALS, FROM THE SITE AS REQUIRED TO PREVENT ACCUMULATION. TRANSPORT THESE MATERIALS OFF THE SITE IN A MANNER THAT WILL PREVENT SPILLAGE AND LEGALLY DISPOSE OF THESE MATERIALS AT AN EPA APPROVED DISPOSAL OR RECYCLING FACILITY.
14. PROVIDE TEMPORARY SHORING AS REQUIRED TO ADEQUATELY SUPPORT AND RETAIN EXISTING MATERIALS AND CONSTRUCTION AFFECTED BY THE WORK. PROTECT THOSE ITEMS, MATERIALS & FINISHES TO REMAIN. REMOVE ONLY THOSE ITEMS AND MATERIALS NECESSARY TO ACCOMMODATE THE WORK WITH CLEAN, UNIFORM CUTS. FILL AND PATCH REMAINING CONSTRUCTION AS REQUIRED WITH MATERIALS MATCHING THE ADJACENT MATERIALS IN KIND, STRENGTH, AND APPEARANCE SO AS TO FINISH UNIFORMLY WITHOUT TELEGRAPHING DIFFERENCES BETWEEN THE PATCHES AND THE ADJACENT CONSTRUCTION. REPAIR OR REPLACE ANY ITEMS, MATERIALS OR FINISHES DAMAGED BY THE WORK AT NO COST TO THE OWNER.
18. DO NOT SCALE DRAWINGS. THE DIMENSIONS ON THE DRAWINGS GOVERN. WRITTEN NOTES REFERENCING AN ITEM OR FEATURE WITH THE WORD "TYPICAL" (TYP) APPLY TO ALL IDENTICAL ITEMS OR FEATURES INDICATED ELSEWHERE ON THESE DRAWINGS.
19. PROVIDE A FLORIDA PRODUCT APPROVAL ISSUED BY THE FLORIDA DEPARTMENT OF BUSINESS & PROFESSIONAL REGULATION OR A MIAMI-DADE NOTICE OF ACCEPTANCE (NOA) ISSUED BY THE MIAMI-DADE COUNTY GOVERNMENT FOR EACH EXTERIOR COMPONENT AND CLADDING ASSEMBLY CERTIFYING THAT APPROVED TESTING HAS SUFFICIENTLY DEMONSTRATED THAT THE ASSEMBLY AND IT'S COMPONENTS, AS DESIGNED AND MANUFACTURED, WILL WITHSTAND THE WIND LOADS AND WIND-BORNE MISSILE IMPACTS IN COMPLIANCE WITH ALL CODE AND JURISDICTIONAL REQUIREMENTS FOR THE PROJECT LOCATION WHEN INSTALLED ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS INCLUDING INSTRUCTIONS THAT MAY BE PROVIDED WITH THE FLORIDA PRODUCT APPROVAL OR NOA DOCUMENTS. PROVIDE THESE DOCUMENTS AS PART OF THE SUBMITTAL FOR EACH OF THESE ITEMS AND ASSEMBLIES FOR BUILDING CONSTRUCTION AUTHORITY APPROVAL.
20. PROVIDE ALL ITEMS AND FEATURES DEPICTED AND DESCRIBED ON THESE DRAWINGS AND OTHER CONTRACT DOCUMENTS SO THEY ARE PROPERLY PLACED, ALIGNED, PLUMB, SECURED, FINISHED AND FUNCTIONING AS INTENDED. PROVIDE FINISHED WORK THAT MEETS OR EXCEEDS CURRENT INDUSTRY STANDARDS FOR QUALITY AND PERFORMANCE. ARRANGE AND CONDUCT INSPECTIONS OF THE FINISHED WORK WITH THE OWNER, THE LANDSCAPE ARCHITECT, AND THE AUTHORITY HAVING JURISDICTION.
21. APPROVAL OF THE WORK BY THESE OR ANY OTHER PARTY OR AGENCY DOES NOT SUPERSEDE THE NEED TO COMPLY WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.
22. KEEP COMPLETE AND LEGIBLE SETS OF CONSTRUCTION DOCUMENTS, ADDENDA, SUPPLEMENTAL INSTRUCTIONS, SUPPLEMENTAL DRAWINGS, MEETING NOTES, ETC. TOGETHER AND READILY AVAILABLE IN AN APPROPRIATE LOCATION ON SITE.
23. SHOP DRAWINGS ARE REQUIRED FOR BUT NOT LIMITED TO THE FOLLOWING: ALL PLAY AREA EQUIPMENT, PLAY SURFACING, BENCHES / FURNISHINGS, LIGHT POLE FOUNDATINOS, BOARDWALKS. AND PARK SHELTER. SHOP DRAWINGS SHOULD INCLUDE DETAILED FABRICATION AND ERECTION DRAWINGS, SETTING DRAWINGS, AND MATERIAL SCHEDULES SHOWING POURED IN PLACE DESIGN AND COLORS. FABRICATION SHALL BEGIN ONLY AFTER LANDSCAPE ARCHITECT'S REVIEW AND THE CITY OF TAMPA'S BUILDING OFFICIAL'S APPROVAL OF SHOP DRAWINGS.
24. PROVIDE THE ITEMS, PRODUCTS AND FEATURES AS DEPICTED, DESCRIBED AND SPECIFIED ON THE DRAWINGS. IF DISCREPANCIES ARE DISCOVERED ON THE DRAWINGS, NOTIFY THE LANDSCAPE ARCHITECT BY RFI AND DO NOT PROCEED WITH WORK RELATED TO ITEMS IN QUESTION UNTIL RECEIPT OF SUPPLEMENTAL INSTRUCTIONS FROM THE LANDSCAPE ARCHITECT. DO NOT MAKE SUBSTITUTIONS WITHOUT THE APPROVAL OF THE LANDSCAPE ARCHITECT. UNDER NO CIRCUMSTANCES WILL THE LANDSCAPE ARCHITECT BE REQUIRED TO PROVE THAT A PRODUCT PROPOSED FOR SUBSTITUTION IS OR IS NOT OF EQUAL QUALITY TO THE SPECIFIED PRODUCT.
25. SUBMIT SHOP DRAWINGS, PRODUCT DATA AND SAMPLES TO THE LANDSCAPE ARCHITECT AND CIVIL ENGINEER FOR REVIEW AS REQUIRED BY THE CONTRACT DOCUMENTS. DO NOT PROCEED WITH WORK RELATED TO SUBMITTALS MARKED "REJECTED" OR "REVISE AND RESUBMIT" BY THE ARCHITECT OR THE ARCHITECT'S CONSULTANTS. SUBMITTALS MARKED "APPROVED", "REVIEWED" OR "MAKE CORRECTIONS NOTED" DO NOT SUPERSEDE THE NEED TO COMPLY WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.
26. THIS SET OF PLANS MAY CONTAIN SHEETS PREPARED BY OTHER PROFESSIONALS. PLACEMAKER DESIGN STUDIO, LLC IS NOT RESPONSIBLE FOR DRAWINGS PREPARED BY OTHER PROFESSIONALS.

GEOTECHNICAL ENGINEERING SERVICES REPORT

CONTRACTOR SHALL REVIEW THE PREPARED GEOTECHNICAL REPORT FOR THE PROJECT PRIOR TO BIDDING ON THE PROJECT AND BECOME FAMILIAR WITH ALL PROJECT REQUIREMENTS. REPORT IS PREPARED BY PROFESSIONAL SERVICE INDUSTRIES, INC. (SIGNED AND SEALED BY: COURTLAND ALVIES, P.E. FLORIDA LICENSE) AND DATED DECEMBER 19, 2024 WITH AN ADDENDUM DATED FEBRUARY 13,2025. CONTRACTOR SHALL REFER TO PROJECT GEOTECHNICAL ENGINEERING SERVICES REPORT FOR PERCENTAGES OF COMPACTION REQUIRED FOR ALL CONCRETE FLATWORK AND FOOTINGS AS WELL AS OTHER REQUIREMENTS. DEPENDING ON THE TIME OF YEAR CONSTRUCTION OCCURS, CONTRACTOR MAY HAVE ADDITIONAL COSTS FOR DEWATERING AND SOIL PREPARATION AS OUTLINED IN THE GEOTECHNICAL REPORT. THESE COST SHALL BE INCLUDED IN THE BID.

SHOP DRAWINGS / PERMIT SUBMITTALS / DEFERRED SUBMITTALS

CONTRACTOR SHALL PROVIDE SHOP DRAWING SUBMITTALS OF ALL PLAY EQUIPMENT, PLAY SURFACING, CONCRETE BOARDWALK, FENCING, A CUSTOM PROPELLER LOGO FENCE PANEL, LIGHT POLE FOUNDATIONS, AND THE PARK SHELTER FOR REVIEW AND PERMITTING APPROVAL PRIOR TO FABRICATION. SEE FURNISHINGS SCHEDULE FOR ADDITION SUBMITTAL REQUIREMENTS. CONTRACTOR SHALL COORDINATE WITH PLAY EQUIPMENT VENDOR, BOARDWALK VENDOR, LIGHT POLE FOUNDATION SUPPLIER, AND SHELTER VENDOR TO PROVIDE ALL STRUCTURAL INFORMATION AND REQUIRED ENGINEERED TRADE SUBMITTALS TO CITY OF TAMPA FOR PERMITTING PURPOSES. THE PLAY EQUIPMENT, BOARDWALK, LIGHT POLE FOUNDATIONS, AND SHELTER ARE TO BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER AS REQUIRED. THE COSTS FOR THESE ENGINEERED SUBMITTALS SHALL BE INCLUDED IN THE CONTRACTOR'S BID. CONTRACTOR SHALL SUBMIT THE PERMIT DRAWINGS AS REQUIRED. THESE ITEMS SHALL NOT BE INSTALLED UNTIL THE SUBMITTALS HAVE BEEN APPROVED BY THE CITY OF TAMPA BUILDING OFFICIAL. CONTRACTOR SHALL ALSO COORDINATE THE SUBMITTAL OF A RIGHT-OF-WAY PERMIT AND IS RESPONSIBLE FOR PAYING ALL PERMITTING FEES. CONTRACTOR SHALL ALSO REVIEW AND MEET ALL REQUIREMENTS AND CONDITIONS OUTLINED UNDER THE FOLLOWING OPEN PERMITS: ROW-26-0000014 AND SPR-25-0002360. REQUIREMENTS INCLUDE CONTRACTOR PREPARING AND SUBMITTING A CUSTOMIZED MOT PLAN (SEE ROW-26-0000014) TO MEET CITY OF TAMPA REQUIREMENTS. CONTRACTOR SHALL SUBMIT TREE REMOVAL PERMITS FOR ALL ONSITE TREE REMOVAL PRIOR TO REMOVAL AND A SEPARATE RIGHT-OF-WAY TREE REMOVAL PERMIT FOR ALL TREES BEING REMOVED IN THE RIGHT-OF-WAY.

CONTRACTOR SHALL PERMIT THE PLAY EQUIPMENT UNDER A SEPARATE COVER. THE FOLLOWING ARE TO BE DEFERRED (CBO-26-0000022): PARK SHELTER AND FOUNDATION (GAZEBO), LIGHT POLE FOUNDATIONS, CONCRETE BOARDWALK AND FOUNDATIONS.

DO NOT DEVIATE FROM THESE DESIGN PLANS DURING THE PREPARATION OF SHOP DRAWINGS WITHOUT THE EXPRESSED WRITTEN PERMISSION OF THE LANDSCAPE ARCHITECT. TYPICAL FOOTING SIZES PROVIDED FOR BIDDING PURPOSES; HOWEVER, CONTRACTOR SHALL PROVIDE ENGINEERED DRAWINGS FOR PERMITTING AND OBTAIN APPROVAL WITH FINAL FOOTING SIZES TO BE VERIFIED AT TIME OF PERMITTING. CONTRACTOR SHALL REVIEW ALL MANUFACTURER'S DETAILS ON ALL PLAY EQUIPMENT FOR FOOTING REQUIREMENTS AND SHALL INCLUDE THE COSTS FOR ALL FOOTINGS/FOUNDATIONS IN BID. SEE SHEET LL501 FOR LIGHT POLE FOUNDATIONS TO BE USED FOR BIDDING PURPOSES. CONTRACTOR IS RESPONSIBLE FOR ACHIEVING ACCEPTABLE BEARING CAPACITY FOR EACH BASE OF THE BOARDWALK FOUNDATIONS AND SHALL SUBMIT COMPACTION TESTING TO LANDSCAPE ARCHITECT. SEE SHEET HP502 FOR ADDITIONAL DETAILS.

ISA CERTIFIED PROJECT ARBORIST AND AIR SPADE REPORTS

CONTRACTOR SHALL CONSULT WITH AN ISA CERTIFIED ARBORIST (PROJECT ARBORIST) FAMILIAR WITH THE CITY OF TAMPA'S TREE PRESERVATION REQUIREMENTS DURING THE DEMOLITION AND CONSTRUCTION PHASE. THE CONTRACTOR'S PROJECT ARBORIST WILL BE INVOLVED WITH COORDINATING AND PERFORMING AIR SPADING WITHIN THE TREE PROTECTION ZONES OF TREES TO REMAIN (FOR BOARDWALKS, FENCE POSTS, AND FLEXIPAVE TRAIL), PREPARING AND SUBMITTING AIR SPADE REPORTS TO THE CITY OF TAMPA AS REQUIRED, PROVIDING CANOPY PRUNING, ROOT PRUNING, OBTAINING TREE PRUNING PERMITS, AND FOR ADDITIONAL PERMITTING COORDINATION WITH THE CITY OF TAMPA'S NATURAL RESOURCE DEPARTMENT REQUIRED DURING CONSTRUCTION. PERMITS ARE REQUIRED FOR REMOVING AND PRUNING TREES. SEE SHEET LP101 FOR PRUNING SPECIFICATIONS. AIR SPADE INVESTIGATION REPORT SHALL BE SUBMITTED TO LANDSCAPE ARCHITECT, CITY OF TAMPA PARKS AND RECREATION DEPARTMENT, AND THE NATURAL RESOURCE DEPARTMENT (ATTN: HENRY SALAZARPEREZ) PRIOR TO CONSTRUCTION OF FENCING, BOARDWALK, AND FLEXIPAVE WITHIN THE TREE PROTECTION ZONE (TPZ). IF NECESSARY, CONTRACTOR SHALL MAKE ADJUSTMENTS (UPON CITY APPROVAL) TO FENCE POST LOCATIONS AND BOARDWALK TO AVOID ROOT IMPACTS WITHIN TPZ. ADJUSTMENTS TO POST AND FOUNDATION LOCATIONS SHALL BE PROVIDED AT NO ADDITIONAL COST TO OWNER. NO ROOTS OVER 2" DIAMETER SHALL BE SEVERED WITHOUT FIRST CONSULTING WITH A CITY REPRESENTATIVE. SEE THE GATE AND FENCE SCHEDULE ON SHEET HP601 AND SHEET HP502 FOR ADDITION AIR SPADE NOTES RELATED TO THE REQUIRED AIR SPADE INVESTIGATION.

PROJECT SCOPE

THE SET OF CONSTRUCTION DOCUMENTS INDICATE THE CONSTRUCTION OF A NEW PARK. THE PLANS DEPICT RIGHT-OF-WAY IMPROVEMENTS ON N. MANHATTAN AVE AND N. HUBERT AVE AS WELL AS A NEW PARK DESIGN WITH CONCRETE BOARDWALKS, TRAILS, PLAYGROUNDS, FENCING, LANDSCAPE, IRRIGATION, SITE DRAINAGE, PARKING, SIDEWALKS, SEATING, FURNISHINGS, LIGHTING, UTILITIES, ELECTRICAL, AND OTHER SITE WORK ENHANCEMENTS AS DEPICTED IN THE CONSTRUCTION DOCUMENTS. SEE CIVIL ENGINEER'S DRAWINGS FOR ADDITIONAL RIGHT-OF-WAY WORK ALONG W. WOODLAWN AVE.

FLOOD ZONE INFORMATION

PER FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA), THIS SITE IS LOCATED WITHIN ZONE "X" (FLOOD INSURANCE RATE MAP COMMUNITY-PANEL NUMBER 12057C0332J REVISED 10/7/2021)

DATUM

VERTICAL DATUM: NORTH AMERICAN VERTICAL DATUM OF 1988 (NAV 88)
HORIZONTAL DATUM: NORTH AMERICAN DATUM OF 1983, FLORIDA STATE PLANES, EAST ZONE, U.S. FEET (NAD83)

LEGAL DESCRIPTION (BY SURVEYOR)

(OR 19118. PG 270) THE EAST 95 FEET OF LOT 10 AND ALL OF LOTS 18, 19 AND 20, BLOCK 91, RE-PLAT OF DREW PARK, ACCORDING TO THE MAP OR PLAT THEREOF AS RECORDED IN PLAT BOOK 29, PAGE 70-95 OF THE PUBLIC RECORDS OF HILLSBOROUGH COUNTY, FLORIDA.
AND
(OR 19734, PG 444) LOT 8, BLOCK 91, AND THE SOUTH 25 FEET OF LOTS 1 AND 2 AND ALL OF LOT 21, BLOCK 91, REPLAT OF DREW PARK, ACCORDING TO THE MAP OR PLAT THEREOF RECORDED IN PLAT BOOK 29, PAGE 70. PUBLIC RECORDS OF HILLSBOROUGH COUNTY, FLORIDA.
SURVEY INFORMATION PROVIDED BY: TRANSYSTEMS L.B. #8103 SIGNED AND SEALED BY: FREDERICK'S BACHMAN, P.S.M #5174 DATED 12/7/24

UTILITY PROVIDERS

ELECTRICITY
TAMPA ELECTRIC COMPANY
702 NORTH FRANKLIN STREET
TAMPA, FLORIDA 33601
TEL: (813) 288-1111

WATER AND SEWER
CITY OF TAMPA UTILITIES DEPARTMENT
306 EAST JACKSON STREET
TAMPA, FLORIDA 33602
TEL: (813) 274-8211

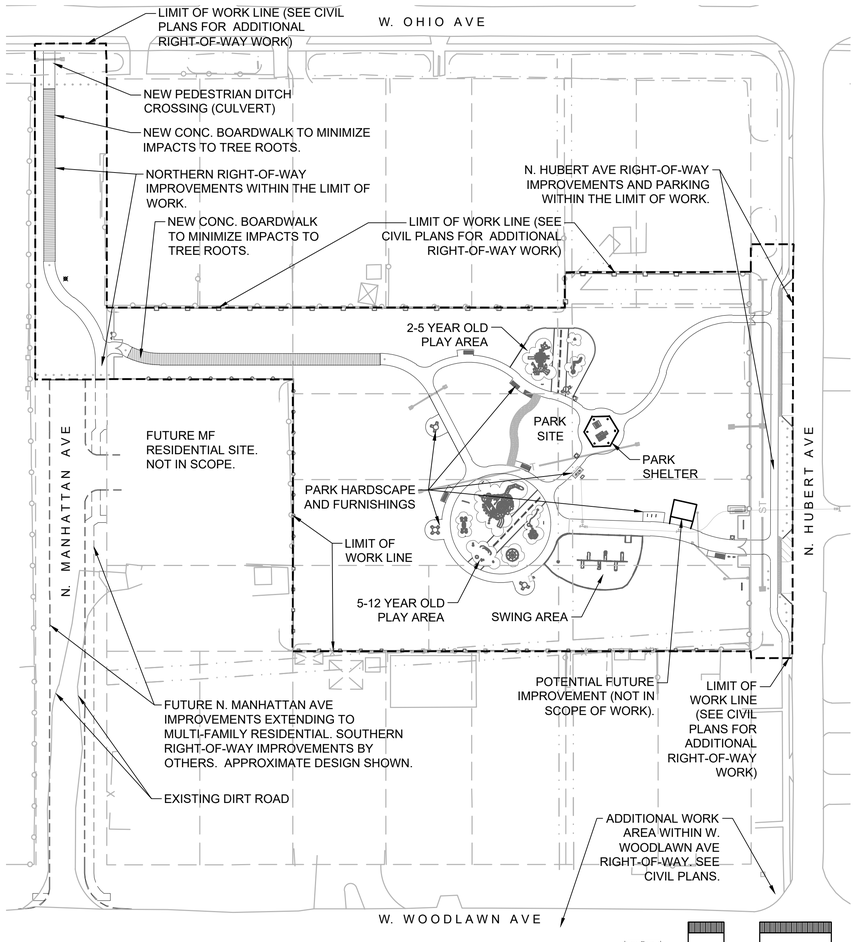
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CLEARWATER, FLORIDA 33755
TEL: (800) 483-4000

FIRE
HILLSBOROUGH COUNTY FIRE RESCUE
TAMPA FIRE STATION # 11
1500 WEST WATERS AVENUE
TAMPA, FL 33604

LIMIT OF WORK AREA



NOTE ON LIMIT OF WORK: SEE CIVIL ENGINEER'S PLAN FOR ADDITIONAL WORK AREA WITHIN RIGHT-OF-WAY.

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Hubert Avenue Park & Right-Of-Way Improvements

4106, 4108, & 4110 N. Hubert Ave + 4115 N. Manhattan Ave
Tampa, Florida

Seal

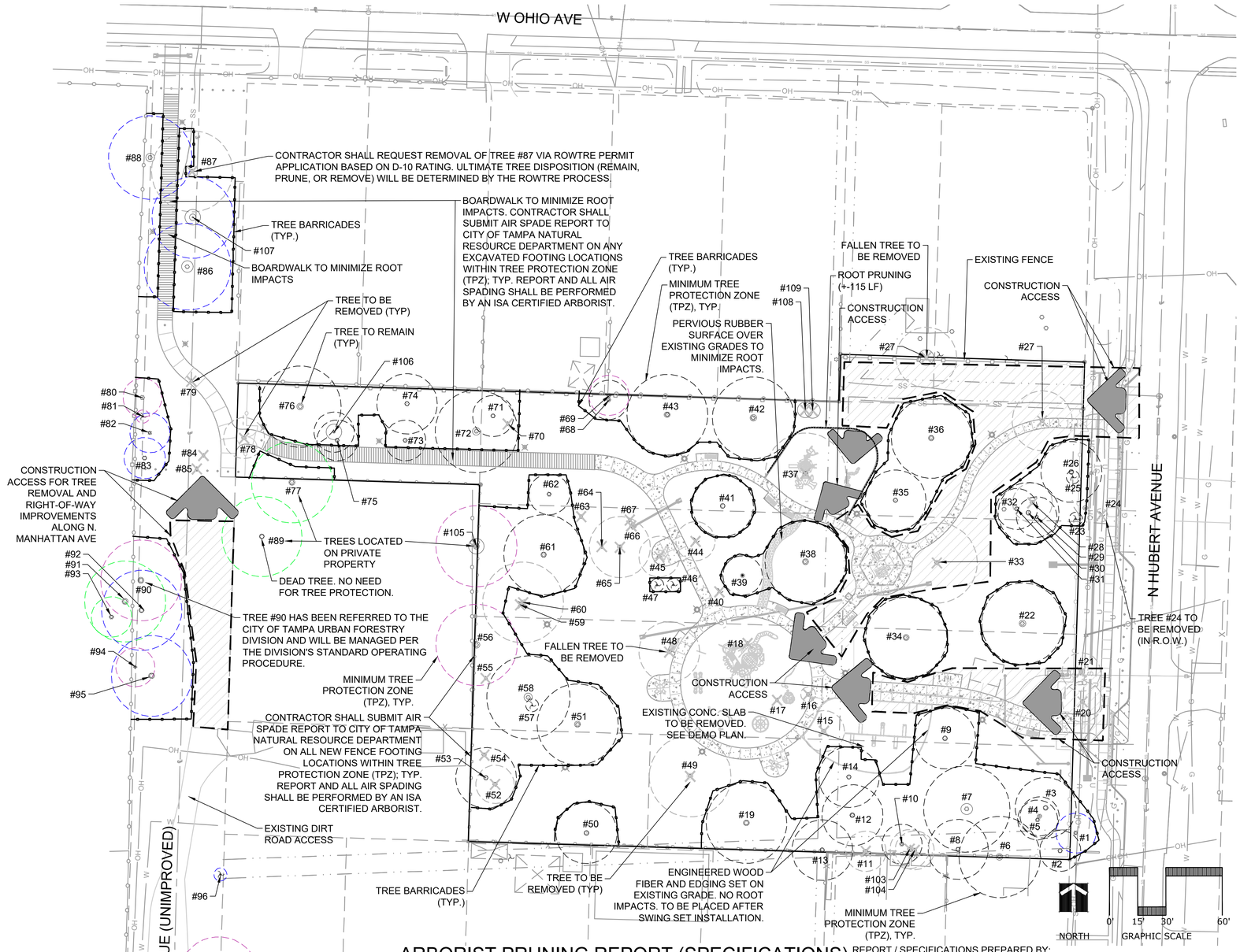
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Date:	**MAY 15, 2026**
Job No.:	**8702**
Drawn By:	**GLA**
Checked By:	**CJA**

Sheet Title
PROJECT INFO / NOTES

Sheet No.
0.5



LEGEND

- TREE TO BE REMOVED
- TREE PROTECTION BARRICADES. GRAND TREES REQUIRE CHAIN LINK METAL FENCING. SEE SHEET TP501.
- ROOT PRUNING LINE
- TREE PROTECTION ZONE (TPZ) FOR RIGHT-OF WAY-TREE
- TREE PROTECTION ZONE (TPZ) FOR PRIVATE PROPERTY TREE
- TREE PROTECTION ZONE (TPZ) FOR PARK SITE TREE
- CONSTRUCTION ACCESS AREA
- TREE PROTECTION ZONE (TPZ) FOR SHARED OWNERSHIP TREE

TREE INVENTORY NOTES

1) THIS TREE INVENTORY WAS COMPLETED IN DECEMBER OF 2024. A LIMITED LEVEL TWO VISUAL GROUND ASSESSMENT OF THE TREES WAS PROVIDED AND ANY EXISTING AERIAL, OBSTRUCTED, OR INTERIOR CONDITIONS THAT WERE NOT APPARENT FROM THE GROUND ARE NOT INCLUDED IN THIS REPORT.
2) THE RATINGS ON THIS TREE INVENTORY IS VALID FOR TWO YEARS UNLESS ANY EVENTS OR DISTURBANCES (BOTH MAN-MADE AND NATURAL) SUCH AS SEVERE WEATHER, LIGHTING, PESTS, DROUGHTS, CONSTRUCTION, POOR MAINTENANCE, OR SIMILAR OCCUR PRIOR TO THE END OF THE ONE YEAR PERIOD. AT THE TIME OF ANY OF THESE OCCURRENCES, THE TREES REQUIRE A REVIEW BY A ISA CERTIFIED ARBORIST TO DETERMINE IMPACTS TO THE OVERALL RATING OF THE EXISTING TREE OR TREES.
3) HAZARD RATINGS: HAZARD RATINGS BASED ON MATHEY AND CLARK: EVALUATION OF HAZARD TREES IN URBAN AREAS, 2ND EDITION, 1994

NOTES

1. SEE SHEET TP501 FOR TREE PROTECTION DETAILS.
2. CONTRACTOR SHALL WORK WITH AN ISA CERTIFIED ARBORIST FAMILIAR WITH THE CITY OF TAMPA'S TREE PRESERVATION REQUIREMENTS. ARBORIST WILL BE INVOLVED WITH AIR SPADING COORDINATION WITHIN TREE PROTECTION ZONE (BOARDWALKS, FENCE POSTS, FLEXIPAVE), PREPARING AIR SPADE REPORTS AS REQUIRED, PROVIDING CANOPY PRUNING, AND FOR COORDINATING WITH THE CITY OF TAMPA NATURAL RESOURCE DEPARTMENT.
3. PROTECTIVE BARRIERS SHALL BE ERECTED PRIOR TO CONSTRUCTION AND SHALL REMAIN IN PLACE UNTIL ALL CONSTRUCTION ACTIVITY IS TERMINATED. NO TREES SHALL BE REMOVED UNTIL ALL PROTECTED BARRIERS HAVE BEEN ERECTED. ALL REMOVED TREES SHALL BE CUT NEAR GROUND LEVEL AND THE STUMP GROUND OUT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACEMENT OF A TREE AND FOR ANY FEE THAT MAY BE ASSESSED TO THE OWNER BY THE GOVERNMENT AGENCY FOR REMOVAL OR DAMAGE TO ANY TREE THAT IS TO BE PRESERVED.
4. NO SIGNS, BUILDING PERMITS, WIRES OR OTHER ATTACHMENTS OF ANY KIND SHALL BE ATTACHED TO ANY PROTECTED TREE OR PALM.
5. ALL TRUNKS OF EXISTING TREES AND PALMS TO REMAIN SHALL BE CLEAR OF VINES AND INVASIVE VEGETATION. DO NOT DAMAGE TRUNK OR REMOVE TREE BARK WHEN REMOVING VINES.
6. RESTORE GRADES TO PRE-REMOVAL CONDITION WHERE EXCAVATION OF ROOTS AND STUMPS RESULT IN DEPRESSIONS AND HOLES. DEPRESSIONS AND HOLES SHALL BE FILLED WITH SOIL SUITABLE FOR PLANTING IN ACCORDANCE WITH LANDSCAPE NOTES, DETAILS, AND SPECIFICATIONS.
7. USE CAUTION WHEN REMOVING PLANT MATERIAL SO THAT EXISTING IRRIGATION, UTILITIES, AND STRUCTURES TO REMAIN ARE NOT DAMAGED. CONTRACTOR SHALL REPAIR OR REPLACE EXISTING FACILITIES DAMAGED BY DEMOLITION ACTIVITIES.
8. THE PROJECT SHALL COMPLY WITH ALL CITY OF TAMPA TREE PROTECTION REQUIREMENTS.
9. WHEN THE CRITICAL ROOT ZONE WILL BE DISTURBED, AFFECTED ROOTS MUST BE SEVERED BY CLEAN PRUNING CUTS AT THE POINT WHERE CONSTRUCTION IMPACTS THE ROOTS. ROOTS CAN BE PRUNED BY UTILIZING TRENCHING EQUIPMENT DESIGNED FOR THIS PURPOSE OR BY HAND DIGGING A TRENCH AND PRUNING ROOTS WITH A PRUNING SAW, CHAIN SAW, OR OTHER EQUIPMENT DESIGNED FOR TREE PRUNING. ROOTS LOCATED WITHIN THE CRITICAL ROOT ZONE THAT WILL BE IMPACTED BY CONSTRUCTION MUST BE PRUNED TO A DEPTH OF 18 INCHES BELOW THE EXISTING GRADE OR TO THE DEPTH OF DISTURBANCE IF LESS THAN 18 INCHES FROM THE EXISTING GRADE. WHEN UNDERGROUND UTILITIES LINES ARE TO BE INSTALLED WITHIN THE CRITICAL ROOT ZONE, THE ROOT PRUNING REQUIREMENTS MAY BE WAIVED IF THE LINES ARE INSTALLED VIA TUNNELING OR DIRECTIONAL BORING AS OPPOSED TO OPEN TRENCHING.
10. A TREE REMOVAL PERMIT IS REQUIRED FOR THE REMOVAL OF THE PROTECTED, SPECIMEN, AND GRAND TREES.
11. CONTRACTOR SHALL CONTACT LANDSCAPE ARCHITECT AND VERIFY ALL TREE REMOVAL PRIOR TO REMOVAL.
12. ANY BRUSH CLEARING REQUIRED WITHIN THE TREE PROTECTION ZONE SHALL BE ACCOMPLISHED WITH HAND-OPERATED EQUIPMENT. CONTRACTOR SHALL CLEAR ALL TREE PROTECTION AREAS OF VINES, SHRUBS, GROUNDCOVERS, GRASS, WEEDS, DEBRIS, AND SAPLINGS. A THREE (3) INCH LAYER OF MULCH SHALL BE APPLIED OVER THE SURFACE OF PROTECTED TREES DURING THE SITE CLEARING PHASE. SEE TREE PROTECTION DETAILS.
13. PRIOR TO AND DURING LANDSCAPE CLEARING, INCLUDING GRUBBING, ALL TREES TO BE REMOVED SHALL BE CLEARLY MARKED BY PROJECT ARBORIST WITH RED SURVEY RIBBONS AT 36" INCHES MINIMUM ABOVE GRADE.

ARBORIST PRUNING REPORT (SPECIFICATIONS)

REPORT / SPECIFICATIONS PREPARED BY:
Christopher J. Anuszkiewicz ISA Certified Arborist #FL-6613A

PERFORMANCE: ALL TREE PRUNING SHALL BE PERFORMED BY AN ISA CERTIFIED ARBORIST. PRUNING AND IMPLEMENTATION SHALL BE CONDUCTED UNDER THE SPECIFICATIONS OF THE AMERICAN NATIONAL STANDARDS INSTITUTE ANSI A300-2023 TREE CARE STANDARDS (OR MOST RECENT EDITION), THE ACCOMPANYING BEST MANAGEMENT PRACTICES, ANSI Z133, THE STATE OF FLORIDA RELEVANT CODE, CITY OF TAMPA MUNICIPAL CODES, AND ALL RELEVANT PLANNING JURISDICTIONS AND ORDINANCES. ALL WORK SHALL BE PERFORMED BY WORKERS TRAINED IN ACCORDANCE WITH ANSI Z133.1 SAFETY REGULATIONS AS REQUIRED BY OSHA.

LOCATION IN LANDSCAPE: NORTH END OF N. MANHATTAN AVENUE RIGHT-OF-WAY, WITHIN THE LIMITS OF THE PARK, AND TREES TO REMAIN ALONG THE N. HUBERT AVENUE STREET FRONTAGE AND WITHIN THE RIGHT-OF-WAY.

TREES TO PRUNE: CANOPY PRUNING FOR TREE NUMBERS #1, #2, #3, #4, #5, #6, #7, #8, #9, #10, #12, #13, #14, #19, #22, #23 (PALM), #25 (PALM), #26, #28, #29, #30, #31, #32, #34, #35, #36, #38, #39, #41, #42, #43, #46 (PALM), #47 (PALM), #50, #51, #53, #56, #57 (PALM), #58, #61, #62, #68, #69, #71, #72, #73, #74, #75, #76, #77, #80, #81 (PALM), #82, #83, #86, #87, #88, #90, #95, #105, #106, #107. ROOT PRUNING FOR TREE NUMBERS #35, #36, #42.

PRUNING INTERVAL: PRUNE PRIOR TO START OF CONSTRUCTION AND AS NECESSARY FOR ACCESS DURING THE DEMOLITION PHASE. TREES SHALL BE REINSPECTED AND CONSIDERED FOR PRUNING IMMEDIATELY FOLLOWING CONSTRUCTION COMPLETION TO ENSURE NO DEAD, DYING, OR DAMAGED LIMBS EXIST AS A RESULT OF CONSTRUCTION ACTIVITY. TREES TO BE REINSPECTED AND CONSIDERED FOR PRUNING 3 YEARS AFTER COMPLETION OF THE CURRENT PRUNING PROJECT.

PRUNING SYSTEM: RETAIN THE NATURAL SYSTEM.

CONDITIONS OF CONCERN: TREES HAVE EXCESSIVE DEADWOOD AND STORM DAMAGED/BROKEN BRANCHES THAT COULD POSE A HAZARD. EXISTING TREE CANOPY CONFLICTS WITH PROPOSED CONSTRUCTION ACCESS ALONG N. MANHATTAN AVENUE. THE PRIMARY PARK ENTRANCE IS OBSTRUCTED BY LOW BRANCHES. PARK NEEDS BETTER VISIBILITY INTO THE SPACE. MANY TREES HAVE POOR STRUCTURE AND WOULD BENEFIT FROM STRUCTURAL PRUNING WITH THE INTENTION OF INVIGORATING THE LEADER BY SUPPRESSING COMPETING FIRST ORDER BRANCHES WITH A LARGE ASPECT RATIO. MANY OLDER TREES HAVE OVEREXTENDED BRANCHES.

OBJECTIVES: CREATE VERTICAL CLEARANCE ALONG N. MANHATTAN FOR CONSTRUCTION ACCESS AND NEAR PRIMARY PARK ENTRANCE ON HUBERT AVE. REMOVE DEAD BRANCHES. ROOT PRUNE TREES IN LOCATIONS SHOWN IN PLAN TO MINIMIZE ROOT IMPACTS. PROVIDE STRUCTURAL PRUNING WITH THE INTENTION OF INVIGORATING THE LEADER AND IMPROVING TREE ARCHITECTURE BY SUPPRESSING COMPETING FIRST ORDER BRANCHES WITH A LARGE ASPECT RATIO (>1:2). REMOVE AND REDUCE HAZARDOUS CONDITIONS.

BRANCHES / ROOTS TO PRUNE:

1) PRUNE TREE BRANCHES AND FOLIAGE TO PROVIDE ACCESS WITH A MINIMUM OF 12' VERTICAL CLEARANCE ALONG N. MANHATTAN AVENUE. TREE #95 SHALL HAVE BRANCHES REMOVED TO PROVIDE 12' MINIMUM CLEARANCE. TREE #90 SHALL HAVE BROKEN 24" LIMB REMOVE AND THE BROKEN LIMB SHALL BE CLEANLY CUT AND REMOVED.
2) ALL TREES 24" AND GREATER SHALL HAVE A 10-13 REDUCTION CUTS 2"-6" IN DIAMETER ON COMPETING FIRST ORDER BRANCHES WITH A HIGH ASPECT RATIO. CUTS SHOULD BE FOCUSED AT THE ENDS OF THE LARGEST LONGEST FIRST ORDER BRANCHES. FOR TREES GREATER THAN 30" ATTENTION SHOULD BE GIVEN TO PROVIDING REDUCTION CUTS ON OVER EXTENDED BRANCHES.
3) ALL TREES LESS THAN 24" DBH SHALL HAVE 8-10 REDUCTION CUTS 2"-6" IN DIAMETER ON COMPETING FIRST ORDER BRANCHES WITH A HIGH ASPECT RATIO AT THE ENDS OF THE LARGEST LONGEST FIRST ORDER BRANCHES.
4) REMOVE 12" OVEREXTENDED BRANCH ON THE NORTH SIDE (APPROXIMATELY 5' UP FROM 1ST FORK) ON TREE #9. REMOVE 12" DECLINING 1ST ORDER BRANCH ON SOUTH SIDE OF TREE #42 (APPROXIMATELY 13' UP TREE). PROVIDE 6" REDUCTION CUT ON LIMB OF TREE #3 THAT EXTENDS OVER PROPOSED PRIMARY PARK ENTRANCE. PROVIDE 6" REMOVAL CUT OF OF LOW LIMB ON TREE #29.
5) REMOVE ALL DEAD, DYING, NEARLY DEAD, DETACHED AND BROKEN BRANCHES 2 INCHES IN DIAMETER OR GREATER ON ALL TREES.
6) ROOT PRUNING (115 LINEAR FEET)
   6)1) ALL ROOT PRUNING SHALL BE OVERSEEN AND APPROVED BY AN ARBORIST, PRIOR TO THE PRE-CONSTRUCTION SITE INSPECTION.
   6)2) ALL ROOTS MUCH BE SEVERED CLEAN AT THE PROTECTIVE ROOT ZONE OF PROTECTED AND GRAND TREES TO PREVENT ROOT DAMAGE.
   6)3) ROOT PRUNING MUST BE PERFORMED WITH AN APPROVED CUTTING TYPE OF EQUIPMENT, SUCH AS A CHAINSAW, OR OTHER CUTTING EQUIPMENT (I.E. DOSKO).
   6)4) ROOT PRUNING MUST BE PERFORMED PRIOR TO ANY CONSTRUCTION ACTIVITIES AND AND INSPECTED BEFORE REQUESTING INSPECTIONS.
7) PRUNE ALL PALM FRONDS THAT HANG BELOW THE 9 AND 3 O'CLOCK POSITIONS.

LIMITATIONS:

1) ARBORIST SHALL NOT REMOVE HEALTHY LIVE BRANCHES BACK TO THE TRUNK UNLESS ABSOLUTELY NECESSARY. DEAD AND NEARLY DEAD BRANCHES ARE TO BE REMOVED BACK TO THE TRUNK. NO FLUSH CUTS.
2) CANOPY PRUNING SHALL NOT EXCEED 25% OF CANOPY. NOTIFY LANDSCAPE ARCHITECT IF ADDITIONAL PRUNING IS REQUIRE.
3) PRIOR TO ANY TREE PRUNING, THE ARBORIST PERFORMING THE WORK SHALL CONTACT THE CITY OF TAMPA PARKS DEPARTMENT FORESTRY DIVISION TO OBTAIN PERMISSION FOR PRUNING ANY TREES WITHIN THE RIGHT-OF-WAY.
4) CONTRACTOR'S PROJECT ARBORIST SHALL SUBMIT TREE PRUNING PERMITS. VERIFY UNDERGROUND UTILITY LOCATIONS PRIOR TO ROOT PRUNING.
5) NO LION TAILING.
6) REVIEW PRUNING OF BRANCHES OVER THE PROPOSED PLAYGROUND AREA (TREES #9, #14 #34, #35, #38, #41, #42) WITH LANDSCAPE ARCHITECT AND OWNER'S REPRESENTATIVE PRIOR TO PRUNING. SHADE OVER PLAYGROUND AREA IS DESIRED.

DEBRIS REMOVAL: ALL DEBRIS WILL BE REMOVED FROM THE WORK AREA DAILY.

COMPLETION DATE: TWO WEEKS PRIOR TO CONSTRUCTION OF ANY CONSTRUCTION ACTIVITY ON THE PROJECT. DATE TO BE DETERMINED BY GENERAL CONTRACTOR. TREES SHALL BE REINSPECTED AND CONSIDERED FOR PRUNING IMMEDIATELY FOLLOWING CONSTRUCTION COMPLETION TO ENSURE NO DEAD, DYING, OR DAMAGED LIMBS EXISTS AS A RESULT OF CONSTRUCTION ACTIVITY.

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Tampa, Florida 33602

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Hubert Avenue Park & Right-Of-Way Improvements

4106, 4108, & 4110 N. Hubert Ave + 4115 N. Manhattan
Tampa, Florida

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BID SET

REV	DATE	DESCRIPTION
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Date:	**MAY 15, 2026**
Job No.:	**8702**
Drawn By:	**GLA**
Checked By:	**CJA**

Sheet Title
TREE INVENTORY / PRESERVATION PLAN

Sheet No.
TP101

TREE EVALUATION DATA

TREE #	OFFSITE TREE (Y/N/ SHARED)	TREE SPECIES (BOTANICAL NAME)	TREE SPECIES (COMMON NAME)	DISPOSITION	TREE TYPE (PT/ST/GT)*	DAMAGING STRUCTURE (Y/N)	DBH (INCHES)	GRAND TREES AND SPECIMEN TREES ONLY								ALL TREES	
								SHORTEST LENGTH DIAMETER (FEET)	LONGEST LENGTH DIAMETER (FEET)	CS	CF	SR	CONDITION & RISK RATING (A-F / 3-12)*	CR	RCF	GRAND MIT	ARBORIST OVERALL EVALUATION GRADE	COMMENT CODES
#1	Y	*QUERCUS VIRGINIANA*	LIVE OAK	PRESERVE	PT	N	15										0.75	18, 20, 22
#2	N	*QUERCUS VIRGINIANA*	LIVE OAK	PRESERVE	PT	N	22										0.75	10, 20
#3	N	*QUERCUS VIRGINIANA*	LIVE OAK	PRESERVE	ST	N	29						B-6				0.90	10, 20
#4	N	*QUERCUS VIRGINIANA*	LIVE OAK	PRESERVE	PT	N	10										0.50	3, 10
#5	N	*QUERCUS VIRGINIANA*	LIVE OAK	PRESERVE	PT	N	15										0.90	
#6	SHARED	*QUERCUS VIRGINIANA*	LIVE OAK	PRESERVE	GT	N	40	42	57	49.5	1923	0.9	B-6	0.9	1558	10	0.90	1, 2, 10, 18
#7	N	*QUERCUS VIRGINIANA*	LIVE OAK	PRESERVE	GT	N	38, 22,12	54	80	67	3524	0.9	C-6	0.75	2379	15	0.75	1, 4, 10, 15, 20, 23
#8	N	*QUERCUS VIRGINIANA*	LIVE OAK	PRESERVE	ST	N	24						C-7				0.75	1, 2, 3, 5, 6, 8
#9	N	*QUERCUS VIRGINIANA*	LIVE OAK	PRESERVE	ST	N	30						B-5				0.90	10
#10	N	*QUERCUS VIRGINIANA*	LIVE OAK	PRESERVE	PT	N	16										0.60	1, 2, 3, 5, 6, 8
#11	N	*QUERCUS LAURIFOLIA*	LAUREL OAK	REMOVED	PT	N	18										0.00	4, 10, 11, 14, 20, 23
#12	N	*QUERCUS VIRGINIANA*	LIVE OAK	PRESERVE	ST	N	30						B-3				0.90	1, 3, 10, 20
#13	SHARED	*QUERCUS VIRGINIANA*	LIVE OAK	PRESERVE	ST	N	28						B-4				0.90	10
#14	N	*QUERCUS VIRGINIANA*	LIVE OAK	PRESERVE	ST	N	27						B-3				0.80	10, 18
#15	N	*QUERCUS LAURIFOLIA*	LAUREL OAK	REMOVE	PT	N	23										0.30	11
#16	N	*ERIOBOTRYA JAPONICA*	LOQUAT	REMOVE	PT	N	5, 7, 10										0.75	1, 3
#17	N	*BAUHINIA VARIEGATA*	ORCHID TREE	REMOVE		N	4, 4, 5, 7, 8, 8, 8										N.A.	19, 25
#18	N	*BAUHINIA VARIEGATA*	ORCHID TREE	REMOVE		N	4, 4, 10, 10										N.A.	1, 3, 15, 16, 19, 25
#19	N	*QUERCUS VIRGINIANA*	LIVE OAK	PRESERVE	GT	N	36	44	52	48	1809	0.9	C-7	0.75	1221	7	0.75	4, 5, 6, 10, 11, 17
#20	Y	*PRUNUS CAROLINIANA*	CHERRY LAUREL	REMOVE	PT	N	4, 4, 5, 6,										0.60	13, 22
#21	Y	*PRUNUS CAROLINIANA*	CHERRY LAUREL	REMOVE	PT	N	6										0.60	18, 22
#22	N	*QUERCUS VIRGINIANA*	LIVE OAK	PRESERVE	GT	N	42	70	96	83	5408	0.9	C-7	0.75	3650	23	0.75	1, 6, 10, 20
#23	N	*SABAL PALMETTO*	CABBAGE PALM	PRESERVE	PT	N	13										0.90	
#24	Y	*SABAL PALMETTO*	CABBAGE PALM	REMOVE	PT	N	12										0.90	
#25	N	*SABAL PALMETTO*	CABBAGE PALM	PRESERVE	PT	N	12										0.90	
#26	N	*QUERCUS VIRGINIANA*	LIVE OAK	PRESERVE	ST	N	29						B-4				0.75	10, 20
#27	N	*QUERCUS LAURIFOLIA*	LAUREL OAK	REMOVE	ST	N	24						D-9				0.40	11
#28	N	*QUERCUS LAURIFOLIA*	LAUREL OAK	REMOVE	PT	N	14										0.30	5, 6, 10, 11, 18
#29	N	*QUERCUS VIRGINIANA*	LIVE OAK	PRESERVE	PT	N	19										0.60	1, 2, 3, 18, 22
#30	N	*QUERCUS VIRGINIANA*	LIVE OAK	PRESERVE	ST	N	30						B-6				0.90	
#31	N	*QUERCUS VIRGINIANA*	LIVE OAK	PRESERVE	PT	N	22										0.90	
#32			NOT PRESENT															
#33	N	*QUERCUS LAURIFOLIA*	LAUREL OAK	REMOVE	GT	N	35	38	44	41	1320	0.7	D-10	0.4	369	2	0.40	1, 5, 6, 10, 11, 17
#34	N	*QUERCUS VIRGINIANA*	LIVE OAK	PRESERVE	GT	N	38	72	82	77	4654	0.9	B-5	0.9	3770	24	0.90	1, 10, 20
#35	N	*QUERCUS VIRGINIANA*	LIVE OAK	PRESERVE	ST	N	28						C-6				0.75	1, 3, 6, 9, 10
#36	N	*QUERCUS VIRGINIANA*	LIVE OAK	PRESERVE	GT	N	33	63	65	64	3215	0.9	B-5	0.9	2604	16	0.90	10, 18
#37	N	*QUERCUS VIRGINIANA*	LIVE OAK	REMOVE	GT	N	35	37	57	47	1734	0.9	D-10	0.4	624	4	0.40	5, 6, 8, 9, 10
#38	N	*QUERCUS VIRGINIANA*	LIVE OAK	PRESERVE	GT	N	37	62	67	64.5	3266	0.9	C-7	0.75	2204	14	0.75	1, 5, 6, 8, 10
#39	N	*ARAUCARIA HETEROPHYLLA*	NORFOLK ISLAND PINE	PRESERVE	PT	N	12										0.80	18
#40	N	*SYAGRUS ROMANZOFFIANA*	QUEEN PALM	REMOVE		N	12										0.00	14, 25
#41	N	*QUERCUS VIRGINIANA*	LIVE OAK	PRESERVE	ST	N	31						B-6				0.90	9
#42	N	*QUERCUS VIRGINIANA*	LIVE OAK	PRESERVE	GT	N	43	91	94	92.5	6717	0.9	B-7	0.9	5440	35	0.90	4, 5, 6, 9, 10, 11, 23
#43	N	*QUERCUS VIRGINIANA*	LIVE OAK	PRESERVE	GT	N	36	72	79	75.5	4475	0.9	B-7	0.9	3625	23	0.90	10
#44	N	*QUERCUS LAURIFOLIA*	LAUREL OAK	REMOVE	PT	N	10										0.00	14
#45	N	*QUERCUS LAURIFOLIA*	LAUREL OAK	REMOVE	PT	N	21										0.00	10, 11, 14
#46	N	*SABAL PALMETTO*	CABBAGE PALM	PRESERVE	PT	N	12										0.90	
#47	N	*SABAL PALMETTO*	CABBAGE PALM	PRESERVE	PT	N	13										0.90	
#48	N	*QUERCUS VIRGINIANA*	LIVE OAK	REMOVE		N	28						F-10				0.00	10, 19, FALLEN
#49	N	*QUERCUS LAURIFOLIA*	LAUREL OAK	REMOVE	GT	N	42	56	60	58	2641	0.7	D-10	0.4	739	4	0.40	5, 6, 10, 11, 20
#50	N	*QUERCUS VIRGINIANA*	LIVE OAK	PRESERVE	ST	N	31						B-5				0.90	10, 28
#51	N	*QUERCUS VIRGINIANA*	LIVE OAK	PRESERVE	GT	N	38	64	70	67	3524	0.9	B-4	0.9	2854	18	0.90	10
#52	N	*PRUNUS CAROLINIANA*	CHERRY LAUREL	REMOVE	PT	N	5										0.00	14
#53	N	*QUERCUS VIRGINIANA*	LIVE OAK	PRESERVE	ST	N	28						B-4				0.90	10
#54	N	*BROUSSONETIA PAPYRIFERA*	PAPER MULBERRY	REMOVE		N	6										0.00	14, 25
#55	N	*BROUSSONETIA PAPYRIFERA*	PAPER MULBERRY	REMOVE		N	6										N.A.	19, 25
#56	SHARED	*QUERCUS VIRGINIANA*	LIVE OAK	PRESERVE	GT	N	40	69	73	71	3957	0.9	B-5	0.9	3205	20	0.90	
#57	N	*SABAL PALMETTO*	CABBAGE PALM	PRESERVE	PT	N	9										0.90	
#58	N	*QUERCUS VIRGINIANA*	LIVE OAK	PRESERVE	GT	N	52	71	80	75.5	4475	0.9	C-6	0.75	3020	19	0.75	1, 2, 3, 4, 15, 23
#59	N	*SYAGRUS ROMANZOFFIANA*	QUEEN PALM	REMOVE		N	6										N.A.	25
#60	N	*QUERCUS VIRGINIANA*	LIVE OAK	REMOVE	GT	N	36	67	74	70.5	3902	0.9	D-9	0.4	1405	9	0.40	5, 6, 8, 13 (BEES INSIDE CAVITY)
#61	N	*QUERCUS VIRGINIANA*	LIVE OAK	PRESERVE	GT	N	33	73	95	84	5539	0.9	C-7	0.75	3739	24	0.75	7, 10
#62	N	*QUERCUS VIRGINIANA*	LIVE OAK	PRESERVE	PT	N	21										0.80	18, 20
#63	N	*BROUSSONETIA PAPYRIFERA*	PAPER MULBERRY	REMOVE	PT	N	13										N.A.	14, 25
#64	N	*BROUSSONETIA PAPYRIFERA*	PAPER MULBERRY	REMOVE	PT	N	6										N.A.	14, 25
#65	N	*QUERCUS LAURIFOLIA*	LAUREL OAK	REMOVE	ST	N	30						F-10				0.00	14
#66	N	*BROUSSONETIA PAPYRIFERA*	PAPER MULBERRY	REMOVE	PT	N	11										N.A.	25
#67	N	*BROUSSONETIA PAPYRIFERA*	PAPER MULBERRY	REMOVE	PT	N	7, 10										N.A.	25
#68	N	*QUERCUS VIRGINIANA*	LIVE OAK	PRESERVE	PT	N	12										0.75	10

TREE EVALUATION DATA

TREE #	OFFSITE TREE (Y/N/ SHARED)	TREE SPECIES (BOTANICAL NAME)	TREE SPECIES (COMMON NAME)	DISPOSITION	TREE TYPE (PT/ST/GT)*	DAMAGING STRUCTURE (Y/N)	DBH (INCHES)	GRAND TREES AND SPECIMEN TREES ONLY								ALL TREES	
								SHORTEST LENGTH DIAMETER (FEET)	LONGEST LENGTH DIAMETER (FEET)	CS	CF	SR	CONDITION & RISK RATING (A-F / 3-12)*	CR	RCF	GRAND MIT	ARBORIST OVERALL EVALUATION GRADE	COMMENT CODES
#69	N	*QUERCUS VIRGINIANA*	LIVE OAK	PRESERVE	PT	N	6, 11										0.75	10
#70	N	*BROUSSONETIA PAPYRIFERA*	PAPER MULBERRY	REMOVE		N	4										N.A.	25
#71	N	*QUERCUS VIRGINIANA*	LIVE OAK	PRESERVE	PT	N	10, 13										0.75	
#72	N	*QUERCUS VIRGINIANA*	LIVE OAK	PRESERVE	GT	N	48	85	96	90.5	6429	0.9	C-6	0.75	4340	28	0.75	1, 10, 17, 23
#73	N	*QUERCUS VIRGINIANA*	LIVE OAK	PRESERVE	PT	N	20										0.75	1, 2, 3, 18
#74	N	*QUERCUS VIRGINIANA*	LIVE OAK	PRESERVE	ST	N	14, 12						C-6				0.75	1, 2, 3
#75	N	*QUERCUS VIRGINIANA*	LIVE OAK	PRESERVE	PT	N	21										0.90	
#76	N	*QUERCUS VIRGINIANA*	LIVE OAK	PRESERVE	GT	N	8, 18,14	45	48	46.5	1697	0.9	C-7	0.75	1146	7	0.75	1, 2, 3
#77	Y	*QUERCUS VIRGINIANA*	LIVE OAK	PRESERVE	GT	N	38	60	65	62.5	3066	0.9	D-10	0.4	1104	7	0.40	9, 10, 11
#78	N	*QUERCUS VIRGINIANA*	LIVE OAK	REMOVE	PT	N	22										0.40	1, 2, 3, 20, 24
#79	Y	*BROUSSONETIA PAPYRIFERA*	PAPER MULBERRY	REMOVE		N	24										N.A.	25
#80	Y	*QUERCUS VIRGINIANA*	LIVE OAK	PRESERVE	PT	N	8										0.75	18
#81	Y	*SABAL PALMETTO*	CABBAGE PALM	PRESERVE	PT	N	12										0.90	
#82	Y	*PRUNUS CAROLINIANA*	CHERRY LAUREL	PRESERVE	PT	N	14										0.50	
#83	Y	*CINNAMOMUM CAMPHORA*	CAMPHORTREE	PRESERVE	PT	N	23										0.80	25
#84	Y	*BROUSSONETIA PAPYRIFERA*	PAPER MULBERRY	REMOVE		N	10										N.A.	25
#85	Y	*BROUSSONETIA PAPYRIFERA*	PAPER MULBERRY	REMOVE		N	13										N.A.	25
#86	Y	*QUERCUS VIRGINIANA*	LIVE OAK	PRESERVE	GT	N	75	105	120	112.5	9935	0.9	B-6	0.9	8047	52	0.90	1, 7, 10, 20
#87	Y	*QUERCUS VIRGINIANA*	LIVE OAK	REMOVE	GT	N	39	59	62	60.5	2873	0.9	D-10	0.4	1034	6	0.40	1, 4, 5, 6, 7, 20
#88	Y	*QUERCUS VIRGINIANA*	LIVE OAK	PRESERVE	GT	N	54	66	80	73	4183	0.9	C-6	0.75	2824	18	0.75	1, 3, 10, 15
#89	Y	*QUERCUS VIRGINIANA*	LIVE OAK	PRESERVE	GT	N	32	0	0				F-9				0.00	14
#90	Y	*QUERCUS VIRGINIANA*	LIVE OAK	PRESERVE	GT	N	38	45	60	52.5	2164	0.9	D-7	0.4	779	5	0.40	1, 5, 6, 7, 9
#91	Y	*QUERCUS VIRGINIANA*	LIVE OAK	PRESERVE	GT	N	38	88	105	96.5	7310	0.9	C-6	0.75	4934	32	0.75	
#92	Y	*QUERCUS VIRGINIANA*	LIVE OAK	PRESERVE	GT	N	32	50	57	53.5	2247	0.9	C-7	0.75	1517	9	0.75	18
#93	Y	*QUERCUS VIRGINIANA*	LIVE OAK	PRESERVE	PT	N	18										0.60	
#94	Y	*CINNAMOMUM CAMPHORA*	CAMPHORTREE	PRESERVE	PT	N	9										0.50	25
#95	Y	*QUERCUS VIRGINIANA*	LIVE OAK	PRESERVE	GT	N	36	50	55	52.5	2164	0.9	C-8	0.75	1460	9	0.75	3, 18
#96	Y	*SABAL PALMETTO*	CABBAGE PALM	PRESERVE	PT	N	11										0.90	
#97	Y	*QUERCUS LAURIFOLIA*	LAUREL OAK	PRESERVE	GT	N	34	34	54	44	1520	0.7	D-10	0.4	426	2	0.40	4, 5, 8, 9
#98	Y	*QUERCUS LAURIFOLIA*	LAUREL OAK	PRESERVE	ST	N	26						D-10				0.40	4, 5, 8, 9
#99	Y	*QUERCUS LAURIFOLIA*	LAUREL OAK	PRESERVE	GT	N	32	36	70	53	2205	0.7	D-10	0.4	617	4	0.40	4, 5, 8, 9
#100	Y	*QUERCUS VIRGINIANA*	LIVE OAK	PRESERVE	ST	N	27						C-6				0.75	22
#101	Y	*QUERCUS VIRGINIANA*	LIVE OAK	PRESERVE	GT	N	36	56	64	60	2826	0.9	C-6	0.75	1908	12	0.75	1, 2, 22
#102	Y	*SABAL PALMETTO*	CABBAGE PALM	PRESERVE	PT	N	12										0.90	
#103	N	*QUERCUS VIRGINIANA*	LIVE OAK	REMOVE	PT	N	10										0.00	
#104	N	*QUERCUS VIRGINIANA*	LIVE OAK	REMOVE	PT	N	9										0.20	
#105	SHARED	*CINNAMOMUM CAMPHORA*	CAMPHORTREE	PRESERVE	GT	N	38	41	49	45	1590	0.2	C-6	0.75	238	1	0.75	1, 10, 20, 25
#106	N	*QUERCUS VIRGINIANA*	LIVE OAK	PRESERVE	PT	N	6, 11										0.60	1, 2, 3, 20
#107	Y	*QUERCUS VIRGINIANA*	LIVE OAK	PRESERVE	GT	N	41	50	64	57	2550	0.9	C-10	0.75	1722	11	0.75	1, 4, 5, 8, 9, 10
#108	N	*MELIA AZEDARACH*	CHINABERRY	REMOVE		N	8										N.A.	25
#109	N	*MELIA AZEDARACH*	CHINABERRY	REMOVE		N	14										N.A.	25
#110	N	*QUERCUS VIRGINIANA*	LIVE OAK	REMOVE		N	20										0.00	19, FALLEN

* PT = PROTECTED TREE, ST = SPECIMEN TREE, GT = GRAND TREE
*A = 100%, B = 90%, C = 75%, D = 40%, F = 0%

TREE CONDITION AND RATINGS PREPARED BY:
Christopher J. Anuszkiewicz ISA Certified Arborist #FL-6613A

TREE INVENTORY COMMENT CODES

1	CODOMINANT	16	POOR UNION
2	INCLUSION	17	FRUITING BODIES PRESENT
3	POOR STRUCTURE	18	LEAN
4	DIEBACK	19	UPROOTED
5	DECAY	20	COVERED IN VINES
6	OPEN CAVITY(IES)	21	GIRDLING ROOTS
7	BROKEN LIMBS / BRANCHES	22	GROWING IN OVERHEAD LINE
8	SEAMS OR CRACKS IN TRUNK	23	LOW CROWN DENSITY
9	WOUNDS	24	LOW LIVE CROWN RATIO
10	DEADWOOD	25	EXOTIC INVASIVE (PER FLORIDA EXOTIC PEST PLANT COUNCIL)
11	IN DECLINE	CT	CLEAR TRUNK
12	DISEASE		
13	INSECTS		
14	DEAD		
15	LOW UNION		

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Prepared For:

City of Tampa
306 East Jackson Street
Tampa, Florida 33602

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Hubert Avenue Park & Right-Of-Way Improvements

4106, 4108, & 4110 N. Hubert Ave + 4115 N. Manhattan
Tampa, Florida

Seal

BID SET

REV	DATE	DESCRIPTION
5		
4		
3		
2		
1		

Date: MAY 15, 2026
Job No.: 8702
Drawn By: GLA
Checked By: CJA

Sheet Title
TREE INVENTORY / PRESERVATION PLAN

Sheet No.
TP102

TREE EVALUATION REPORT

Grand Tree Assessment

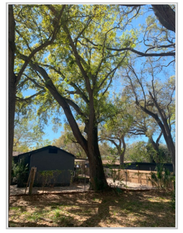
Site Address: Hubert Avenue Park
Tree Number: 6
Offsite Tree (Y/N/Shared): Shared
Species: Quercus virginiana / Live Oak
Tree Type: GT
DBH (Inches): 40
Condition & Risk Rating: B-6



Roots Condition Rating: B
Trunk Condition Rating: B
Limb / Branch Structure Condition Rating: B
Twigs Condition Rating: B
Foliage Condition Rating: B
Total Condition Rating: B
Failure Potential (4 points): 2
Size of Defective Part (4 points): 2
Target Rating (4 points): 2
Total Hazard Rating: 6

Shortest Length Diameter: 42
Longer Length Diameter: 57
Crown Spread (CS): 49.5
Area of Crown Footprint (CF): 1923
Species Rating (SR): 0.9
Condition Rating (CR): 0.9
Replacement Crown Footprint (RCF): 1558
Grand Tree Mitigation: 10

Notes:
See Comment Codes on Sheet TP102.



TREE EVALUATION REPORT

Grand Tree Assessment

Site Address: Hubert Avenue Park
Tree Number: 7
Offsite Tree (Y/N/Shared): N
Species: Quercus virginiana / Live Oak
Tree Type: GT
DBH (Inches): 38, 22, 12
Condition & Risk Rating: C-6



Roots Condition Rating: B
Trunk Condition Rating: B
Limb / Branch Structure Condition Rating: C
Twigs Condition Rating: C
Foliage Condition Rating: C
Total Condition Rating: C
Failure Potential (4 points): 2
Size of Defective Part (4 points): 2
Target Rating (4 points): 2
Total Hazard Rating: 6

Shortest Length Diameter: 54
Longer Length Diameter: 80
Crown Spread (CS): 67
Area of Crown Footprint (CF): 3524
Species Rating (SR): 0.9
Condition Rating (CR): 0.75
Replacement Crown Footprint (RCF): 2379
Grand Tree Mitigation: 15

Notes:
See Comment Codes on Sheet TP102.



TREE EVALUATION REPORT

Grand Tree Assessment

Site Address: Hubert Avenue Park
Tree Number: 19
Offsite Tree (Y/N/Shared): N
Species: Quercus virginiana / Live Oak
Tree Type: GT
DBH (Inches): 36
Condition & Risk Rating: C-7



Roots Condition Rating: B
Trunk Condition Rating: B
Limb / Branch Structure Condition Rating: C
Twigs Condition Rating: C
Foliage Condition Rating: C
Total Condition Rating: C
Failure Potential (4 points): 3
Size of Defective Part (4 points): 3
Target Rating (4 points): 1
Total Hazard Rating: 7

Shortest Length Diameter: 44
Longer Length Diameter: 52
Crown Spread (CS): 48
Area of Crown Footprint (CF): 1809
Species Rating (SR): 0.9
Condition Rating (CR): 0.75
Replacement Crown Footprint (RCF): 1221
Grand Tree Mitigation: 7

Notes:
See Comment Codes on Sheet TP102.



TREE EVALUATION REPORT

Grand Tree Assessment

Site Address: Hubert Avenue Park
Tree Number: 22
Offsite Tree (Y/N/Shared): N
Species: Quercus virginiana / Live Oak
Tree Type: GT
DBH (Inches): 42
Condition & Risk Rating: C-7



Roots Condition Rating: B
Trunk Condition Rating: B
Limb / Branch Structure Condition Rating: C
Twigs Condition Rating: C
Foliage Condition Rating: C
Total Condition Rating: C
Failure Potential (4 points): 3
Size of Defective Part (4 points): 2
Target Rating (4 points): 2
Total Hazard Rating: 7

Shortest Length Diameter: 70
Longer Length Diameter: 96
Crown Spread (CS): 83
Area of Crown Footprint (CF): 5408
Species Rating (SR): 0.9
Condition Rating (CR): 0.75
Replacement Crown Footprint (RCF): 3650
Grand Tree Mitigation: 23

Notes:
See Comment Codes on Sheet TP102.



TREE EVALUATION REPORT

Grand Tree Assessment

Site Address: Hubert Avenue Park
Tree Number: 33
Offsite Tree (Y/N/Shared): N
Species: Quercus laurifolia / Laurel Oak
Tree Type: GT
DBH (Inches): 35
Condition & Risk Rating: D-10



Roots Condition Rating: B
Trunk Condition Rating: D
Limb / Branch Structure Condition Rating: D
Twigs Condition Rating: D
Foliage Condition Rating: D
Total Condition Rating: D
Failure Potential (4 points): 4
Size of Defective Part (4 points): 4
Target Rating (4 points): 2
Total Hazard Rating: 10

Shortest Length Diameter: 38
Longer Length Diameter: 44
Crown Spread (CS): 41
Area of Crown Footprint (CF): 1320
Species Rating (SR): 0.7
Condition Rating (CR): 0.4
Replacement Crown Footprint (RCF): 369
Grand Tree Mitigation: 2

Notes:
Significant amount of deadwood at branch tips. Fruiting bodies observed on multiple first order branches. Poor crown density with many open cavities and broken limbs. Laurel oak is in decline. Removal recommended.



TREE EVALUATION REPORT

Grand Tree Assessment

Site Address: Hubert Avenue Park
Tree Number: 34
Offsite Tree (Y/N/Shared): N
Species: Quercus virginiana / Live Oak
Tree Type: GT
DBH (Inches): 38
Condition & Risk Rating: B-5



Roots Condition Rating: A
Trunk Condition Rating: A
Limb / Branch Structure Condition Rating: B
Twigs Condition Rating: B
Foliage Condition Rating: A
Total Condition Rating: B
Failure Potential (4 points): 2
Size of Defective Part (4 points): 2
Target Rating (4 points): 1
Total Hazard Rating: 5

Shortest Length Diameter: 72
Longer Length Diameter: 82
Crown Spread (CS): 77
Area of Crown Footprint (CF): 4654
Species Rating (SR): 0.9
Condition Rating (CR): 0.9
Replacement Crown Footprint (RCF): 3770
Grand Tree Mitigation: 24

Notes:
See Comment Codes on Sheet TP102.



TREE EVALUATION REPORT

Grand Tree Assessment

Site Address: Hubert Avenue Park
Tree Number: 36
Offsite Tree (Y/N/Shared): N
Species: Quercus virginiana / Live Oak
Tree Type: GT
DBH (Inches): 33
Condition & Risk Rating: B-5



Roots Condition Rating: B
Trunk Condition Rating: B
Limb / Branch Structure Condition Rating: B
Twigs Condition Rating: B
Foliage Condition Rating: B
Total Condition Rating: B
Failure Potential (4 points): 1
Size of Defective Part (4 points): 2
Target Rating (4 points): 2
Total Hazard Rating: 5

Shortest Length Diameter: 63
Longer Length Diameter: 65
Crown Spread (CS): 64
Area of Crown Footprint (CF): 3215
Species Rating (SR): 0.9
Condition Rating (CR): 0.9
Replacement Crown Footprint (RCF): 2604
Grand Tree Mitigation: 16

Notes:
See Comment Codes on Sheet TP102.



TREE EVALUATION REPORT

Grand Tree Assessment

Site Address: Hubert Avenue Park
Tree Number: 37
Offsite Tree (Y/N/Shared): N
Species: Quercus virginian / Live Oak
Tree Type: GT
DBH (Inches): 35
Condition & Risk Rating: D-10



Roots Condition Rating: D
Trunk Condition Rating: D
Limb / Branch Structure Condition Rating: D
Twigs Condition Rating: D
Foliage Condition Rating: C
Total Condition Rating: D
Failure Potential (4 points): 4
Size of Defective Part (4 points): 4
Target Rating (4 points): 2
Total Hazard Rating: 10

Shortest Length Diameter: 37
Longer Length Diameter: 57
Crown Spread (CS): 47
Area of Crown Footprint (CF): 1734
Species Rating (SR): 0.9
Condition Rating (CR): 0.4
Replacement Crown Footprint (RCF): 624
Grand Tree Mitigation: 4

Notes:
Codominant with one stem dead. Possible lightning damage. Decay has extended into second stem. Approximately 80% of trunk diameter dead. Living stem has open wound starting at base of tree extending 8' up tree and 3' wide on NW side. Another cavity present 10' up living stem that is 4' x 2' wide. Open cavity on east side of tree indicates majority of trunk diameter has been impacted. Structural integrity compromised with leaning canopy. Removal recommended.



GRAND TREE REPORTS PREPARED BY:
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Prepared For:

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Tampa, Florida 33602

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Hubert Avenue Park & Right-Of-Way Improvements

4106, 4108, & 4110 N. Hubert Ave + 4115 N. Manhattan
Tampa, Florida

Seal

BID SET

REV	DATE	DESCRIPTION
1		
2		
3		
4		
5		

Date: MAY 15, 2026
Job No.: 8702
Drawn By: GLA
Checked By: CJA

Sheet Title
GRAND TREE REPORTS

Sheet No.
TP103

TREE EVALUATION REPORT

Grand Tree Assessment

Site Address: Hubert Avenue Park
Tree Number: 38
Offsite Tree (Y/N/Shared): N
Species: Quercus virginiana / Live Oak
Tree Type: GT
DBH (Inches): 37
Condition & Risk Rating: C-7



Roots Condition Rating: B
Trunk Condition Rating: B
Limb / Branch Structure Condition Rating: C
Twigs Condition Rating: C
Foliage Condition Rating: C
Total Condition Rating: C
Failure Potential (4 points): 2
Size of Defective Part (4 points): 3
Target Rating (4 points): 2
Total Hazard Rating: 7

Shortest Length Diameter: 62
Longer Length Diameter: 67
Crown Spread (CS): 64.5
Area of Crown Footprint (CF): 3266
Species Rating (SR): 0.9
Condition Rating (CR): 0.75
Replacement Crown Footprint (RCF): 2204
Grand Tree Mitigation: 14

Notes:
See Comment Codes on Sheet TP102.



TREE EVALUATION REPORT

Grand Tree Assessment

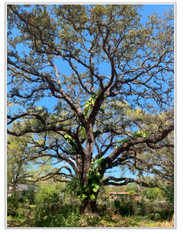
Site Address: Hubert Avenue Park
Tree Number: 42
Offsite Tree (Y/N/Shared): N
Species: Quercus virginiana / Live Oak
Tree Type: GT
DBH (Inches): 43
Condition & Risk Rating: B-7



Roots Condition Rating: A
Trunk Condition Rating: C
Limb / Branch Structure Condition Rating: C
Twigs Condition Rating: B
Foliage Condition Rating: B
Total Condition Rating: B
Failure Potential (4 points): 3
Size of Defective Part (4 points): 2
Target Rating (4 points): 2
Total Hazard Rating: 7

Shortest Length Diameter: 91
Longer Length Diameter: 94
Crown Spread (CS): 92.5
Area of Crown Footprint (CF): 6717
Species Rating (SR): 0.9
Condition Rating (CR): 0.9
Replacement Crown Footprint (RCF): 5440
Grand Tree Mitigation: 35

Notes:
See Comment Codes on Sheet TP102.



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TREE EVALUATION REPORT

Grand Tree Assessment

Site Address: Hubert Avenue Park
Tree Number: 43
Offsite Tree (Y/N/Shared): N
Species: Quercus virginiana / Live Oak
Tree Type: GT
DBH (Inches): 36
Condition & Risk Rating: B-7



Roots Condition Rating: A
Trunk Condition Rating: B
Limb / Branch Structure Condition Rating: C
Twigs Condition Rating: B
Foliage Condition Rating: B
Total Condition Rating: B
Failure Potential (4 points): 3
Size of Defective Part (4 points): 2
Target Rating (4 points): 2
Total Hazard Rating: 7

Shortest Length Diameter: 72
Longer Length Diameter: 79
Crown Spread (CS): 75.5
Area of Crown Footprint (CF): 4475
Species Rating (SR): 0.9
Condition Rating (CR): 0.9
Replacement Crown Footprint (RCF): 3625
Grand Tree Mitigation: 23

Notes:
See Comment Codes on Sheet TP102.



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TREE EVALUATION REPORT

Grand Tree Assessment

Site Address: Hubert Avenue Park
Tree Number: 49
Offsite Tree (Y/N/Shared): N
Species: Quercus Laurifolia / Laurel Oak
Tree Type: GT
DBH (Inches): 42
Condition & Risk Rating: D-10



Roots Condition Rating: B
Trunk Condition Rating: D
Limb / Branch Structure Condition Rating: D
Twigs Condition Rating: D
Foliage Condition Rating: D
Total Condition Rating: D
Failure Potential (4 points): 4
Size of Defective Part (4 points): 4
Target Rating (4 points): 2
Total Hazard Rating: 10

Shortest Length Diameter: 56
Longer Length Diameter: 60
Crown Spread (CS): 58
Area of Crown Footprint (CF): 2641
Species Rating (SR): 0.7
Condition Rating (CR): 0.4
Replacement Crown Footprint (RCF): 739
Grand Tree Mitigation: 4

Notes:
Multiple large open cavities on center stem. 16" open cavity on south side approximately 6' up tree. 36" wide cavity on north side with significant decay. Large branch (over 16") on ground broke away from stem. Significant deadwood present. Tree in in advanced stages of decline with rot present in cavities. Open cavities extending far into trunk. Recommend removal.



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TREE EVALUATION REPORT

Grand Tree Assessment

Site Address: Hubert Avenue Park
Tree Number: 51
Offsite Tree (Y/N/Shared): N
Species: Quercus virginiana / Live Oak
Tree Type: GT
DBH (Inches): 38
Condition & Risk Rating: B-4



Roots Condition Rating: A
Trunk Condition Rating: B
Limb / Branch Structure Condition Rating: B
Twigs Condition Rating: B
Foliage Condition Rating: B
Total Condition Rating: B
Failure Potential (4 points): 1
Size of Defective Part (4 points): 1
Target Rating (4 points): 2
Total Hazard Rating: 4

Shortest Length Diameter: 64
Longer Length Diameter: 70
Crown Spread (CS): 67
Area of Crown Footprint (CF): 3524
Species Rating (SR): 0.9
Condition Rating (CR): 0.9
Replacement Crown Footprint (RCF): 2854
Grand Tree Mitigation: 18

Notes:
See Comment Codes on Sheet TP102.



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TREE EVALUATION REPORT

Grand Tree Assessment

Site Address: Hubert Avenue Park
Tree Number: 56
Offsite Tree (Y/N/Shared): Shared
Species: Quercus virginiana / Live Oak
Tree Type: GT
DBH (Inches): 40
Condition & Risk Rating: B-5



Roots Condition Rating: A
Trunk Condition Rating: A
Limb / Branch Structure Condition Rating: B
Twigs Condition Rating: B
Foliage Condition Rating: B
Total Condition Rating: B
Failure Potential (4 points): 2
Size of Defective Part (4 points): 1
Target Rating (4 points): 2
Total Hazard Rating: 5

Shortest Length Diameter: 69
Longer Length Diameter: 73
Crown Spread (CS): 71
Area of Crown Footprint (CF): 3957
Species Rating (SR): 0.9
Condition Rating (CR): 0.9
Replacement Crown Footprint (RCF): 3205
Grand Tree Mitigation: 20

Notes:
See Comment Codes on Sheet TP102.



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TREE EVALUATION REPORT

Grand Tree Assessment

Site Address: Hubert Avenue Park
Tree Number: 58
Offsite Tree (Y/N/Shared): N
Species: Quercus virginiana / Live Oak
Tree Type: GT
DBH (Inches): 52
Condition & Risk Rating: C-6



Roots Condition Rating: B
Trunk Condition Rating: C
Limb / Branch Structure Condition Rating: C
Twigs Condition Rating: C
Foliage Condition Rating: B
Total Condition Rating: C
Failure Potential (4 points): 3
Size of Defective Part (4 points): 2
Target Rating (4 points): 1
Total Hazard Rating: 6

Shortest Length Diameter: 71
Longer Length Diameter: 80
Crown Spread (CS): 75.5
Area of Crown Footprint (CF): 4475
Species Rating (SR): 0.9
Condition Rating (CR): 0.75
Replacement Crown Footprint (RCF): 3020
Grand Tree Mitigation: 19

Notes:
See Comment Codes on Sheet TP102.



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TREE EVALUATION REPORT

Grand Tree Assessment

Site Address: Hubert Avenue Park
Tree Number: 60
Offsite Tree (Y/N/Shared): N
Species: Quercus virginiana / Live Oak
Tree Type: GT
DBH (Inches): 36
Condition & Risk Rating: D-9



Roots Condition Rating: B
Trunk Condition Rating: D
Limb / Branch Structure Condition Rating: D
Twigs Condition Rating: D
Foliage Condition Rating: D
Total Condition Rating: D
Failure Potential (4 points): 4
Size of Defective Part (4 points): 3
Target Rating (4 points): 2
Total Hazard Rating: 9

Shortest Length Diameter: 67
Longer Length Diameter: 74
Crown Spread (CS): 70.5
Area of Crown Footprint (CF): 3902
Species Rating (SR): 0.9
Condition Rating (CR): 0.4
Replacement Crown Footprint (RCF): 1405
Grand Tree Mitigation: 9

Notes:
Large open cavity on south side with a seam running from the base to approximately 16' up trunk. Decay within open seam and cavity. Bees present in cavity. Wood rot at tree base has extended into the basal flare and root tissue on north side. Removal recommended.



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Job No.:	**8702**
Drawn By:	**GLA**
Checked By:	**CJA**

Sheet Title
GRAND TREE REPORTS

Sheet No.
TP104

TREE EVALUATION REPORT

Grand Tree Assessment

Site Address: Hubert Avenue Park
Tree Number: 61
Offsite Tree (Y/N/Shared): N
Species: Quercus virginiana / Live Oak
Tree Type: GT
DBH (Inches): 33
Condition & Risk Rating: C-7



Roots Condition Rating: A
Trunk Condition Rating: A
Limb / Branch Structure Condition Rating: C
Twigs Condition Rating: C
Foliage Condition Rating: C
Total Condition Rating: C
Failure Potential (4 points): 3
Size of Defective Part (4 points): 2
Target Rating (4 points): 2
Total Hazard Rating: 7

Shortest Length Diameter: 73
Longer Length Diameter: 95
Crown Spread (CS): 84
Area of Crown Footprint (CF): 5539
Species Rating (SR): 0.9
Condition Rating (CR): 0.75
Replacement Crown Footprint (RCF): 3739
Grand Tree Mitigation: 24

Notes:
See Comment Codes on Sheet TP102.



TREE EVALUATION REPORT

Grand Tree Assessment

Site Address: Hubert Avenue Park
Tree Number: 72
Offsite Tree (Y/N/Shared): N
Species: Quercus virginiana / Live Oak
Tree Type: GT
DBH (Inches): 48
Condition & Risk Rating: C-6



Roots Condition Rating: A
Trunk Condition Rating: B
Limb / Branch Structure Condition Rating: C
Twigs Condition Rating: C
Foliage Condition Rating: C
Total Condition Rating: C
Failure Potential (4 points): 2
Size of Defective Part (4 points): 2
Target Rating (4 points): 2
Total Hazard Rating: 6

Shortest Length Diameter: 85
Longer Length Diameter: 96
Crown Spread (CS): 90.5
Area of Crown Footprint (CF): 6429
Species Rating (SR): 0.9
Condition Rating (CR): 0.75
Replacement Crown Footprint (RCF): 4340
Grand Tree Mitigation: 28

Notes:
See Comment Codes on Sheet TP102.



TREE EVALUATION REPORT

Grand Tree Assessment

Site Address: Hubert Avenue Park
Tree Number: 76
Offsite Tree (Y/N/Shared): N
Species: Quercus virginiana / Live Oak
Tree Type: GT
DBH (Inches): 8, 18, 14
Condition & Risk Rating: C-7



Roots Condition Rating: A
Trunk Condition Rating: C
Limb / Branch Structure Condition Rating: C
Twigs Condition Rating: B
Foliage Condition Rating: C
Total Condition Rating: C
Failure Potential (4 points): 2
Size of Defective Part (4 points): 2
Target Rating (4 points): 3
Total Hazard Rating: 7

Shortest Length Diameter: 45
Longer Length Diameter: 48
Crown Spread (CS): 46.5
Area of Crown Footprint (CF): 1697
Species Rating (SR): 0.9
Condition Rating (CR): 0.75
Replacement Crown Footprint (RCF): 1146
Grand Tree Mitigation: 7

Notes:
See Comment Codes on Sheet TP102.



TREE EVALUATION REPORT

Grand Tree Assessment

Site Address: Hubert Avenue Park
Tree Number: 77
Offsite Tree (Y/N/Shared): Y
Species: Quercus virginiana / Live Oak
Tree Type: GT
DBH (Inches): 38
Condition & Risk Rating: D-10



Roots Condition Rating: C
Trunk Condition Rating: D
Limb / Branch Structure Condition Rating: D
Twigs Condition Rating: C
Foliage Condition Rating: C
Total Condition Rating: D
Failure Potential (4 points): 4
Size of Defective Part (4 points): 4
Target Rating (4 points): 2
Total Hazard Rating: 10

Shortest Length Diameter: 60
Longer Length Diameter: 65
Crown Spread (CS): 62.5
Area of Crown Footprint (CF): 3066
Species Rating (SR): 0.9
Condition Rating (CR): 0.4
Replacement Crown Footprint (RCF): 1104
Grand Tree Mitigation: 7

Notes:
Decay at base has extended into basal flare on north and south side. Central stem has large open wound with significant decay approximately 10' up stem. Decay in central stem has impacted 40-50% of the trunk diameter at this location.



TREE EVALUATION REPORT

Grand Tree Assessment

Site Address: Hubert Avenue Park
Tree Number: 86
Offsite Tree (Y/N/Shared): Y
Species: Quercus virginiana / Live Oak
Tree Type: GT
DBH (Inches): 75
Condition & Risk Rating: B-6



Roots Condition Rating: B
Trunk Condition Rating: B
Limb / Branch Structure Condition Rating: C
Twigs Condition Rating: C
Foliage Condition Rating: B
Total Condition Rating: B
Failure Potential (4 points): 2
Size of Defective Part (4 points): 3
Target Rating (4 points): 1
Total Hazard Rating: 6

Shortest Length Diameter: 105
Longer Length Diameter: 120
Crown Spread (CS): 112.5
Area of Crown Footprint (CF): 9935
Species Rating (SR): 0.9
Condition Rating (CR): 0.9
Replacement Crown Footprint (RCF): 8047
Grand Tree Mitigation: 52

Notes:
See Comment Codes on Sheet TP102.



TREE EVALUATION REPORT

Grand Tree Assessment

Site Address: Hubert Avenue Park
Tree Number: 87
Offsite Tree (Y/N/Shared): Y
Species: Quercus virginiana / Live Oak
Tree Type: GT
DBH (Inches): 39
Condition & Risk Rating: D-10



Roots Condition Rating: B
Trunk Condition Rating: B
Limb / Branch Structure Condition Rating: D
Twigs Condition Rating: D
Foliage Condition Rating: D
Total Condition Rating: D
Failure Potential (4 points): 4
Size of Defective Part (4 points): 3
Target Rating (4 points): 3
Total Hazard Rating: 10

Shortest Length Diameter: 59
Longer Length Diameter: 62
Crown Spread (CS): 60.5
Area of Crown Footprint (CF): 2873
Species Rating (SR): 0.9
Condition Rating (CR): 0.4
Replacement Crown Footprint (RCF): 1034
Grand Tree Mitigation: 6

Notes:
See Comment Codes on Sheet TP102.



TREE EVALUATION REPORT

Grand Tree Assessment

Site Address: Hubert Avenue Park
Tree Number: 88
Offsite Tree (Y/N/Shared): Y
Species: Quercus virginiana / Live Oak
Tree Type: GT
DBH (Inches): 54
Condition & Risk Rating: C-6



Roots Condition Rating: B
Trunk Condition Rating: C
Limb / Branch Structure Condition Rating: C
Twigs Condition Rating: C
Foliage Condition Rating: C
Total Condition Rating: C
Failure Potential (4 points): 3
Size of Defective Part (4 points): 2
Target Rating (4 points): 1
Total Hazard Rating: 6

Shortest Length Diameter: 66
Longer Length Diameter: 80
Crown Spread (CS): 73
Area of Crown Footprint (CF): 4183
Species Rating (SR): 0.9
Condition Rating (CR): 0.75
Replacement Crown Footprint (RCF): 2824
Grand Tree Mitigation: 18

Notes:
See Comment Codes on Sheet TP102.



TREE EVALUATION REPORT

Grand Tree Assessment

Site Address: Hubert Avenue Park
Tree Number: 89
Offsite Tree (Y/N/Shared): Y
Species: Quercus virginiana / Live Oak
Tree Type: GT
DBH (Inches): 32
Condition & Risk Rating: F-9



Roots Condition Rating: F
Trunk Condition Rating: F
Limb / Branch Structure Condition Rating: F
Twigs Condition Rating: F
Foliage Condition Rating: F
Total Condition Rating: F
Failure Potential (4 points): 4
Size of Defective Part (4 points): 4
Target Rating (4 points): 1
Total Hazard Rating: 9

Shortest Length Diameter: 0
Longer Length Diameter: 0
Crown Spread (CS):
Area of Crown Footprint (CF):
Species Rating (SR):
Condition Rating (CR):
Replacement Crown Footprint (RCF):
Grand Tree Mitigation:

Notes:
See Comment Codes on Sheet TP102.

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Checked By:	**CJA**

Sheet Title
GRAND TREE REPORTS

Sheet No.
TP105

TREE EVALUATION REPORT

Grand Tree Assessment

Site Address: Hubert Avenue Park
Tree Number: 90
Offsite Tree (Y/N/Shared): Y
Species: Quercus virginiana / Live Oak
Tree Type: GT
DBH (Inches): 38
Condition & Risk Rating: D-7



Shortest Length Diameter: 45
Longer Length Diameter: 60
Crown Spread (CS): 52.5
Area of Crown Footprint (CF): 2164
Species Rating (SR): 0.9
Condition Rating (CR): 0.4
Replacement Crown Footprint (RCF): 779
Grand Tree Mitigation: 5

Notes:
See Comment Codes on Sheet TP102.



Roots Condition Rating: B
Trunk Condition Rating: B
Limb / Branch Structure Condition Rating: D
Twigs Condition Rating: D
Foliage Condition Rating: C
Total Condition Rating: D
Failure Potential (4 points): 3
Size of Defective Part (4 points): 3
Target Rating (4 points): 1
Total Hazard Rating: 7

TREE EVALUATION REPORT

Grand Tree Assessment

Site Address: Hubert Avenue Park
Tree Number: 91
Offsite Tree (Y/N/Shared): Y
Species: Quercus virginiana / Live Oak
Tree Type: GT
DBH (Inches): 38
Condition & Risk Rating: C-6



Shortest Length Diameter: 88
Longer Length Diameter: 105
Crown Spread (CS): 96.5
Area of Crown Footprint (CF): 7310
Species Rating (SR): 0.9
Condition Rating (CR): 0.75
Replacement Crown Footprint (RCF): 4934
Grand Tree Mitigation: 32

Notes:
See Comment Codes on Sheet TP102.



Roots Condition Rating: B
Trunk Condition Rating: A
Limb / Branch Structure Condition Rating: C
Twigs Condition Rating: C
Foliage Condition Rating: C
Total Condition Rating: C
Failure Potential (4 points): 2
Size of Defective Part (4 points): 3
Target Rating (4 points): 1
Total Hazard Rating: 6

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TREE EVALUATION REPORT

Grand Tree Assessment

Site Address: Hubert Avenue Park
Tree Number: 92
Offsite Tree (Y/N/Shared): Y
Species: Quercus virginiana / Live Oak
Tree Type: GT
DBH (Inches): 32
Condition & Risk Rating: C-7



Shortest Length Diameter: 50
Longer Length Diameter: 57
Crown Spread (CS): 53.5
Area of Crown Footprint (CF): 2247
Species Rating (SR): 0.9
Condition Rating (CR): 0.75
Replacement Crown Footprint (RCF): 1517
Grand Tree Mitigation: 9

Notes:
See Comment Codes on Sheet TP102.



Roots Condition Rating: B
Trunk Condition Rating: C
Limb / Branch Structure Condition Rating: D
Twigs Condition Rating: C
Foliage Condition Rating: C
Total Condition Rating: C
Failure Potential (4 points): 3
Size of Defective Part (4 points): 3
Target Rating (4 points): 1
Total Hazard Rating: 7

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TREE EVALUATION REPORT

Grand Tree Assessment

Site Address: Hubert Avenue Park
Tree Number: 95
Offsite Tree (Y/N/Shared): Y
Species: Quercus virginiana / Live Oak
Tree Type: GT
DBH (Inches): 36
Condition & Risk Rating: C-8



Shortest Length Diameter: 50
Longer Length Diameter: 55
Crown Spread (CS): 52.5
Area of Crown Footprint (CF): 2164
Species Rating (SR): 0.9
Condition Rating (CR): 0.75
Replacement Crown Footprint (RCF): 1460
Grand Tree Mitigation: 9

Notes:
See Comment Codes on Sheet TP102.



Roots Condition Rating: B
Trunk Condition Rating: C
Limb / Branch Structure Condition Rating: D
Twigs Condition Rating: C
Foliage Condition Rating: C
Total Condition Rating: C
Failure Potential (4 points): 3
Size of Defective Part (4 points): 3
Target Rating (4 points): 2
Total Hazard Rating: 8

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TREE EVALUATION REPORT

Grand Tree Assessment

Site Address: Hubert Avenue Park
Tree Number: 97
Offsite Tree (Y/N/Shared): Y
Species: Quercus laurifolia / Laurel Oak
Tree Type: GT
DBH (Inches): 34
Condition & Risk Rating: D-10



Shortest Length Diameter: 34
Longer Length Diameter: 54
Crown Spread (CS): 44
Area of Crown Footprint (CF): 1520
Species Rating (SR): 0.7
Condition Rating (CR): 0.4
Replacement Crown Footprint (RCF): 426
Grand Tree Mitigation: 2

Notes:
See Comment Codes on Sheet TP102.

Roots Condition Rating: B
Trunk Condition Rating: C
Limb / Branch Structure Condition Rating: D
Twigs Condition Rating: D
Foliage Condition Rating: D
Total Condition Rating: D
Failure Potential (4 points): 3
Size of Defective Part (4 points): 3
Target Rating (4 points): 4
Total Hazard Rating: 10

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Sheet Title
GRAND TREE REPORTS

Sheet No.
TP106

TREE EVALUATION REPORT

Grand Tree Assessment

Site Address: Hubert Avenue Park
Tree Number: 99
Offsite Tree (Y/N/Shared): Y
Species: Quercus laurifolia / Laurel Oak
Tree Type: GT
DBH (Inches): 32
Condition & Risk Rating: D-10



Roots Condition Rating: D
Trunk Condition Rating: D
Limb / Branch Structure Condition Rating: D
Twigs Condition Rating: D
Foliage Condition Rating: D
Total Condition Rating: D
Failure Potential (4 points): 3
Size of Defective Part (4 points): 3
Target Rating (4 points): 4
Total Hazard Rating: 10

Shortest Length Diameter: 36
Longer Length Diameter: 70
Crown Spread (CS): 53
Area of Crown Footprint (CF): 2205
Species Rating (SR): 0.7
Condition Rating (CR): 0.4
Replacement Crown Footprint (RCF): 617
Grand Tree Mitigation: 4

Notes:
See Comment Codes on Sheet TP102.



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TREE EVALUATION REPORT

Grand Tree Assessment

Site Address: Hubert Avenue Park
Tree Number: 101
Offsite Tree (Y/N/Shared): Y
Species: Quercus virginiana / Live Oak
Tree Type: GT
DBH (Inches): 36
Condition & Risk Rating: C-6



Roots Condition Rating: B
Trunk Condition Rating: A
Limb / Branch Structure Condition Rating: C
Twigs Condition Rating: C
Foliage Condition Rating: C
Total Condition Rating: C
Failure Potential (4 points): 2
Size of Defective Part (4 points): 2
Target Rating (4 points): 2
Total Hazard Rating: 6

Shortest Length Diameter: 56
Longer Length Diameter: 64
Crown Spread (CS): 60
Area of Crown Footprint (CF): 2826
Species Rating (SR): 0.9
Condition Rating (CR): 0.75
Replacement Crown Footprint (RCF): 1908
Grand Tree Mitigation: 12

Notes:
See Comment Codes on Sheet TP102.

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TREE EVALUATION REPORT

Grand Tree Assessment

Site Address: Hubert Avenue Park
Tree Number: 105
Offsite Tree (Y/N/Shared): Shared
Species: Cinnamomum camphora
Tree Type: GT
DBH (Inches): 38
Condition & Risk Rating: C-6



Roots Condition Rating: B
Trunk Condition Rating: B
Limb / Branch Structure Condition Rating: C
Twigs Condition Rating: C
Foliage Condition Rating: C
Total Condition Rating: C
Failure Potential (4 points): 2
Size of Defective Part (4 points): 2
Target Rating (4 points): 2
Total Hazard Rating: 6

Shortest Length Diameter: 41
Longer Length Diameter: 49
Crown Spread (CS): 45
Area of Crown Footprint (CF): 1590
Species Rating (SR): 0.2
Condition Rating (CR): 0.75
Replacement Crown Footprint (RCF): 238
Grand Tree Mitigation: 1

Notes:
See Comment Codes on Sheet TP102.



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TREE EVALUATION REPORT

Grand Tree Assessment

Site Address: Hubert Avenue Park
Tree Number: 107
Offsite Tree (Y/N/Shared): Y
Species: Quercus virginiana / Live Oak
Tree Type: GT
DBH (Inches): 41
Condition & Risk Rating: C-10



Roots Condition Rating: B
Trunk Condition Rating: B
Limb / Branch Structure Condition Rating: D
Twigs Condition Rating: C
Foliage Condition Rating: C
Total Condition Rating: C
Failure Potential (4 points): 3
Size of Defective Part (4 points): 3
Target Rating (4 points): 4
Total Hazard Rating: 10

Shortest Length Diameter: 50
Longer Length Diameter: 64
Crown Spread (CS): 57
Area of Crown Footprint (CF): 2550
Species Rating (SR): 0.9
Condition Rating (CR): 0.75
Replacement Crown Footprint (RCF): 1722
Grand Tree Mitigation: 11

Notes:
See Comment Codes on Sheet TP102.



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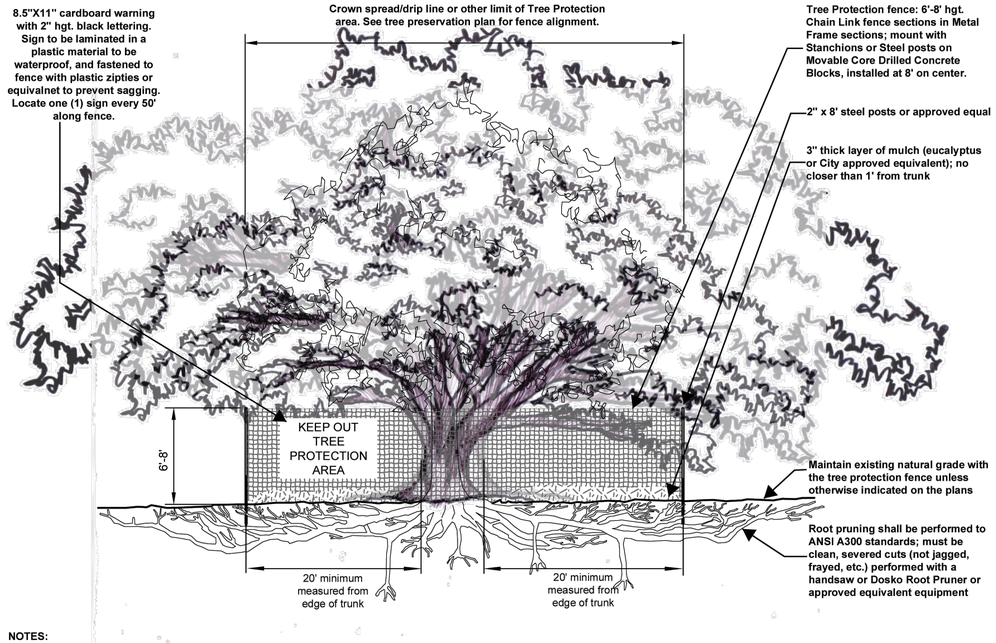
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Date:	**MAY 15, 2026**
Job No.:	**8702**
Drawn By:	**GLA**
Checked By:	**CJA**

Sheet Title
GRAND TREE REPORTS

Sheet No.
TP107

TREE PROTECTION FOR GRAND TREE



NOTES:

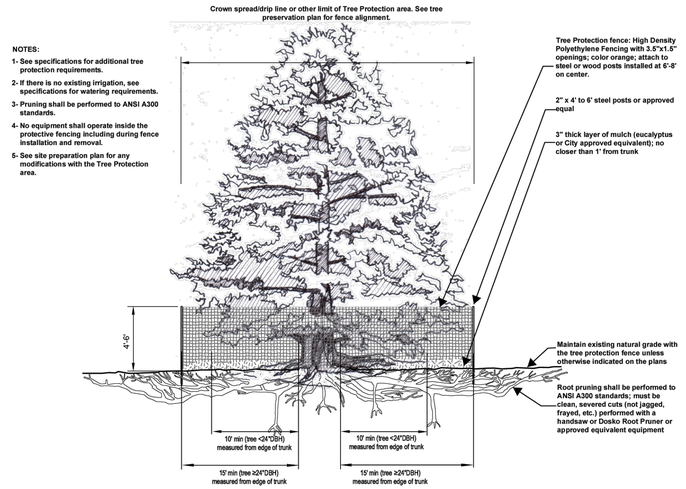
1- See specifications for additional tree protection requirements.

2- If there is no existing irrigation, see specifications for watering requirements.

3- Pruning shall be performed to ANSI A300 standards.

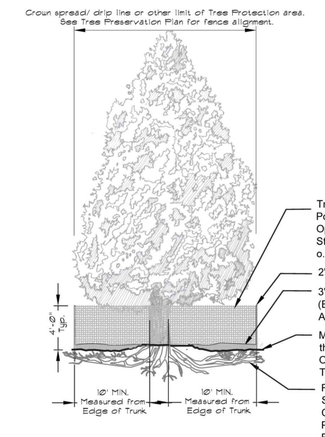
4- No equipment shall operate inside the protective fencing including during fence installation and removal.

5- See site preparation plan for any modifications with the Tree Protection area.



TREE PROTECTION FOR LARGE ORNAMENTAL, SHADE, AND CONIFER TREES

15' MINIMUM PROTECTIVE ROOT ZONE APPLIES TO SPECIMEN TREES. SEE SEC. 27-43.



Notes:
1. See specifications for additional tree protection requirements.
2. If there is no existing irrigation, see specifications for watering requirements.
3. Pruning shall be performed to ANSI A300 Standards.
4. No equipment shall operate inside the protective fencing including during fence installation and removal.
5. See site preparation plan for any modifications with the Tree Protection area.

Tree Protection Fence: High Density Polyethylene Fencing with 3.5"x1.5" Openings. Color Orange. Attach to Steel or Wood Posts Installed at 6'-8' o.c., Typ.

2" x 4' Steel or Wood Posts or Approved Equal.

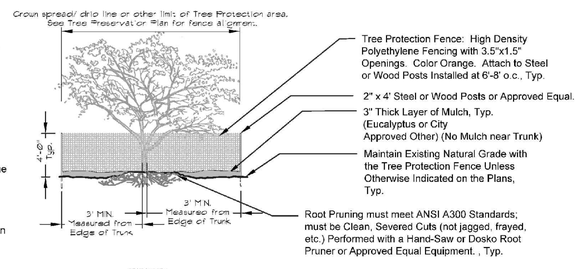
3" Thick Layer of Mulch, Typ. (Eucalyptus or City Approved Other) (No Mulch near Trunk)

Maintain Existing Natural Grade with the Tree Protection Fence Unless Otherwise Indicated on the Plans, Typ.

Root Pruning must meet ANSI A300 Standards; must be Clean, Severed Cuts (not jagged, frayed, etc.) Performed with a Hand-Saw or Dosko Root Pruner or Approved Equal. , Typ.

(2) TREE PROTECTION FOR MEDIUM ORNAMENTAL, SHADE AND CONIFER TREE

Notes:
1. See specifications for additional tree protection requirements.
2. If there is no existing irrigation, see specifications for watering requirements.
3. Pruning shall be performed to ANSI A300 Standards.
4. No equipment shall operate inside the protective fencing including during fence installation and removal.
5. See site preparation plan for any modifications with the Tree Protection area.



Tree Protection Fence: High Density Polyethylene Fencing with 3.5"x1.5" Openings. Color Orange. Attach to Steel or Wood Posts Installed at 6'-8' o.c., Typ.

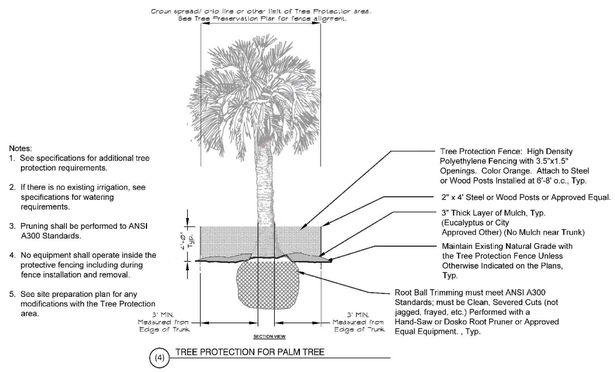
2" x 4' Steel or Wood Posts or Approved Equal.

3" Thick Layer of Mulch, Typ. (Eucalyptus or City Approved Other) (No Mulch near Trunk)

Maintain Existing Natural Grade with the Tree Protection Fence Unless Otherwise Indicated on the Plans, Typ.

Root Pruning must meet ANSI A300 Standards; must be Clean, Severed Cuts (not jagged, frayed, etc.) Performed with a Hand-Saw or Dosko Root Pruner or Approved Equal Equipment. , Typ.

(3) TREE PROTECTION FOR SMALL ORNAMENTAL TREE



Notes:
1. See specifications for additional tree protection requirements.
2. If there is no existing irrigation, see specifications for watering requirements.
3. Pruning shall be performed to ANSI A300 Standards.
4. No equipment shall operate inside the protective fencing including during fence installation and removal.
5. See site preparation plan for any modifications with the Tree Protection area.

Tree Protection Fence: High Density Polyethylene Fencing with 3.5"x1.5" Openings. Color Orange. Attach to Steel or Wood Posts Installed at 6'-8' o.c., Typ.

2" x 4' Steel or Wood Posts or Approved Equal.

3" Thick Layer of Mulch, Typ. (Eucalyptus or City Approved Other) (No Mulch near Trunk)

Maintain Existing Natural Grade with the Tree Protection Fence Unless Otherwise Indicated on the Plans, Typ.

Root Ball Trimming must meet ANSI A300 Standards; must be Clean, Severed Cuts (not jagged, frayed, etc.) Performed with a Hand-Saw or Dosko Root Pruner or Approved Equal Equipment. , Typ.

(4) TREE PROTECTION FOR PALM TREE

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Prepared For:

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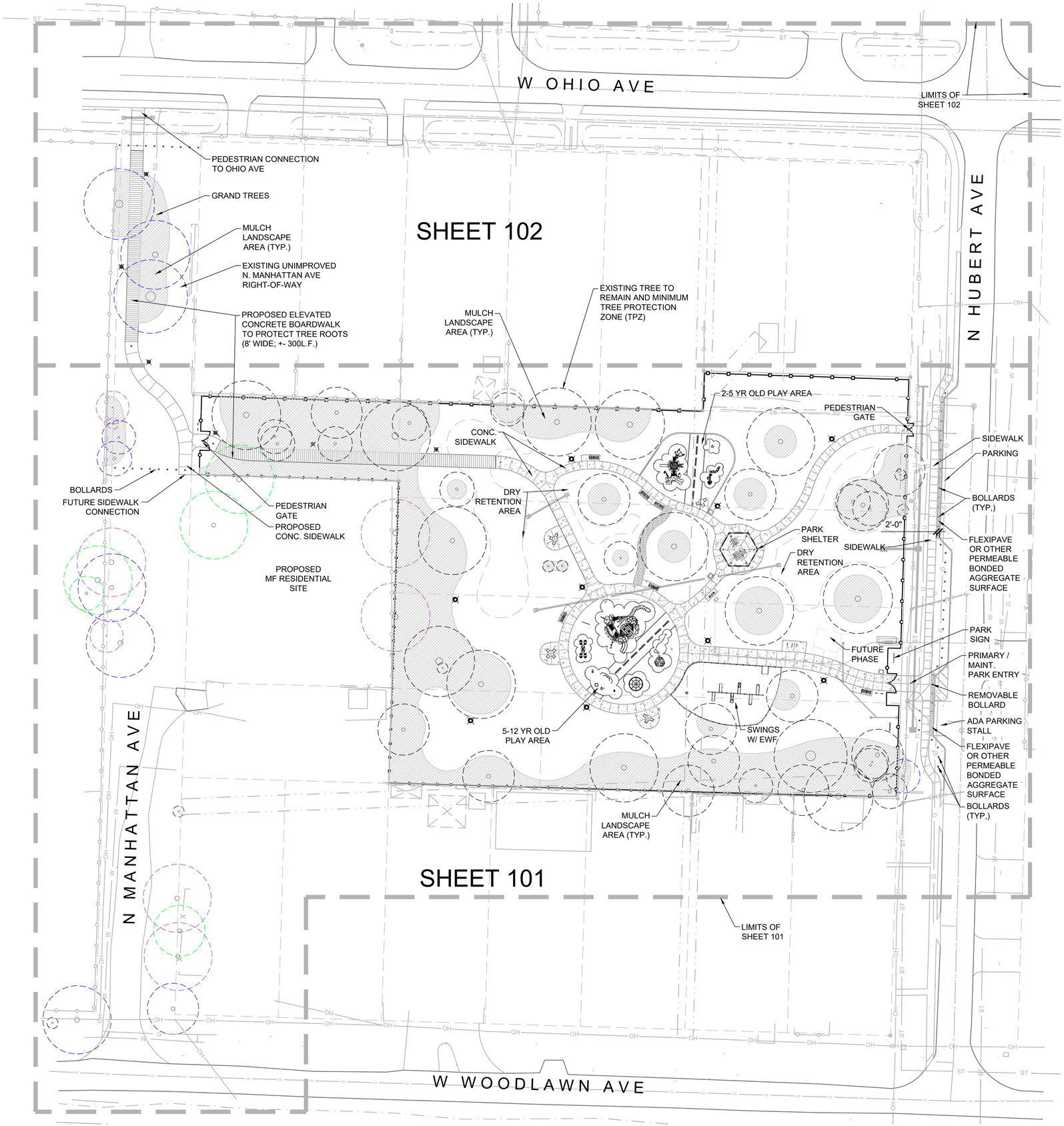
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Drawn By:	**GLA**
Checked By:	**CJA**

Sheet Title
TREE PRESERVATION DETAILS

Sheet No.
TP501



NORTH

0' 15' 30' 60'
GRAPHIC SCALE

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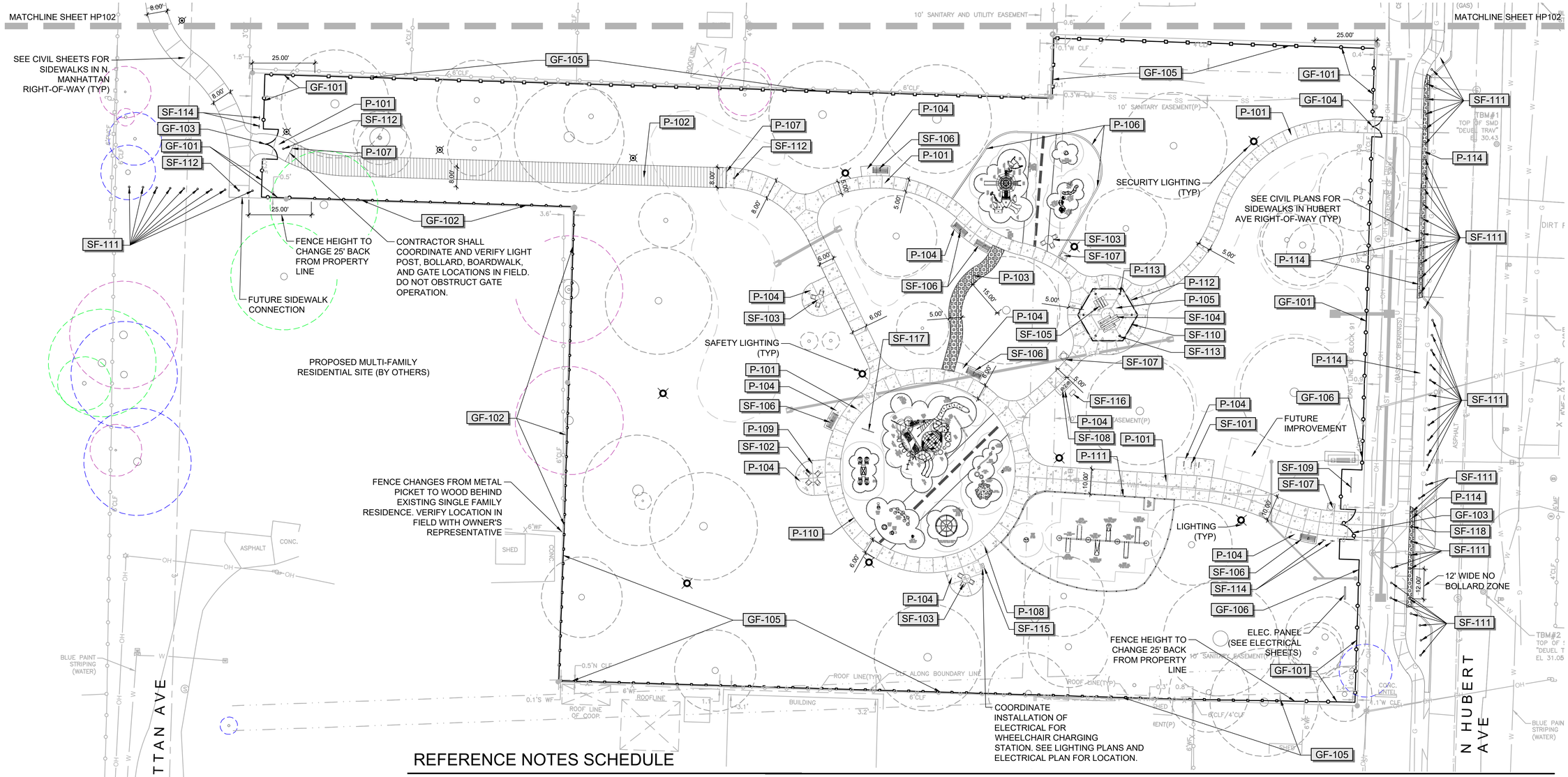
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Date:	**MAY 15, 2026**
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Sheet Title
OVERALL SITE PLAN / KEY SHEET

Sheet No.
HP100



REFERENCE NOTES SCHEDULE

CODE	DESCRIPTION	DETAIL
GATE AND FENCE		
GF-101	4' HIGH METAL PICKET FENCE (ITEM #GF-1)	1/HP508
GF-102	6' METAL PICKET FENCE (ITEM #GF-2)	1/HP508
GF-103	4' HIGH METAL PICKET FENCE DOUBLE SWING GATE (ITEM #GF-3). 12' WIDE OPENING. GATE SHALL OPEN 180 DEGREES AND ATTACH TO A RECEIVING POST ON FENCE. INCLUDE AND INSTALL KNOXBOX 3200 (ITEM #GF-7) AT MAIN HUBERT AVE GATE.	2/HP508
GF-104	4' HIGH METAL PICKET FENCE DOUBLE SWING GATE (ITEM #GF-4). 8' WIDE OPENING. GATE SHALL OPEN 180 DEGREES AND ATTACH TO RECEIVING POST ON FENCE.	2/HP508
GF-105	6' HIGH PAINTED WOOD FENCE (ITEM #GF-5)	1/HP509
GF-106	INSTALL CUSTOM FENCE PANEL WITH DREW PARK PROPELLER LOGO. LOGO TO FACE STREET.	3/HP508

PAVING		
P-101	6" THICK CONC. SIDEWALK (ITEM #PM-1)	1/HP503
P-102	CONC. BOARDWALK (ITEM #PM-2). SEE SHEET HP502 FOR DETAILS.	
P-103	INSTALL FLEXI-PAVE OVER TREE ROOTS. MAINTAIN 15' SEPERATION FROM TREE TRUNK. (ITEM #PM-3)	6/HP503
P-104	INSTALL 4" THICK CONCRETE PAD FOR FURNISHINGS (ITEM #PM-4)	8/HP503
P-105	INSTALL 4" THICK INTEGRAL COLORED CONCRETE PAD (ITEM #PM-5)	9/HP503
P-106	INSTALL CONCRETE FLUSH CURB (ITEM #P-6)	5/HP503
P-107	BOARDWALK APPROACH	3/HP504
P-108	INSTALL CONCRETE PAVING JOINTS (6" THICK WITH WWF) WITH ITEM #PM-1.	2/HP503
P-109	INSTALL CONCRETE PAVING JOINTS (4" THICK CONC. PAD) WITH ITEM #PM-4	7/HP503
P-110	INSTALL POURED-IN-PLACE SAFETY SURFACING (ITEM #P-13) ADJACENT TO SIDEWALK (ITEM # PM-1).	4/HP503
P-111	INSTALL PLAYGROUND BORDER WITH SPIKE (ITEM #P-15) AT SIDEWALK (ITEM #P-1).	3/HP503
P-112	INSTALL PAVILION (ITEM #F-10) ON 4" THICK INTEGRAL COLORED CONCRETE PAD (ITEM #PM-5) ADJACENT TO 6" THICK CONCRETE SIDEWALK (ITEM #PM-1)	1/HP505
P-113	INSTALL ISOLATION JOINTS AT ALL VERTICAL SUPPORTS OF PAVILION (ITEM #F-10)	2/HP505
P-114	INSTALL FLEXI-PAVE OF OTHER APPROVED PERMEABLE BONDED AGGREGATE SURFACE (ITEM #PM-3) IN RIGHT OF WAY BETWEEN SIDEWALK AND STREET. COORDINATE WITH BOLLARD INSTALLATION.	

SITE FURNISHINGS		
SF-101	BIKE RACKS (ITEM #F-1) EMBEDMENT MOUNTED ON CONCRETE PAD (ITEM #PM-4)	4/HP507
SF-102	4 SEAT ROUND PICNIC TABLE (ITEM #F-2)	5/HP507
SF-103	ADA ROUND PICNIC TABLE (ITEM #F-3)	5/HP507
SF-104	ADA 8' PICNIC TABLE (ITEM #F-4)	
SF-105	KIDS PICNIC TABLE (ITEM #F-5)	
SF-106	PARK BENCH (ITEM #F-6) SURFACE MOUNTED ON CONC. PAD (ITEM #PM-4)	2/HP507
SF-107	TRASH RECEPTACLE (ITEM #F-7) SURFACE MOUNTED ON 3'X3'X4" CONC. PAD (ITEM #PM-4)	1/HP507
SF-108	DRINKING FOUNTAIN (ITEM #F-8) MOUNTED ON CONC. PAD (ITEM #PM-4)	1/HP504
SF-109	MAIN PARK SIGN (ITEM #F-9)	1/HP506
SF-110	PARK SHELTER (ITEM #F-10). SEE SHEET HP501 FOR DETAILS.	
SF-111	WOODEN PARK BOLLARD (ITEM #F-11)	4/HP504
SF-112	COLLAPSIBLE PARK BOLLARD (ITEM #F-12). COORDINATE WITH GATE INSTALLATION SO THAT BOLLARD DOES NOT OBSTRUCT GATE OPERATION. SET BOLLARD 3' BACK FROM BOARDWALK.	
SF-113	HAND SANITIZING STATION (ITEM #F-13)	
SF-114	INSTALL PARK RULES / SERVICE ANIMAL SIGNS (ITEM #F-14). VERIFY LOCATION DOES NOT OBSTRUCT GATE.	3/HP506
SF-115	WHEELCHAIR CHARGING STATION (SEE LIGHTING PLAN, SHEET LL100)	3/HP507
SF-116	INSTALL SHALLOW DRAIN WELL FOR DRINKING FOUNTAIN (ITEM #F-8)	2/HP504
SF-117	INSTALL COMMUNICATION BOARD (ITEM #F-15).	
SF-118	INSTALL COLLAPSIBLE BOLLARD (ITEM #F-16). BOLLARD SHALL COLLAPSE TOWARDS STREET AND NOT OVER SIDEWALK.	

NOTES

1. SEE SHEET HP601 FOR FINISHES AND FURNISHINGS.

NORTH

GRAPHIC SCALE 0' 10' 20' 40'

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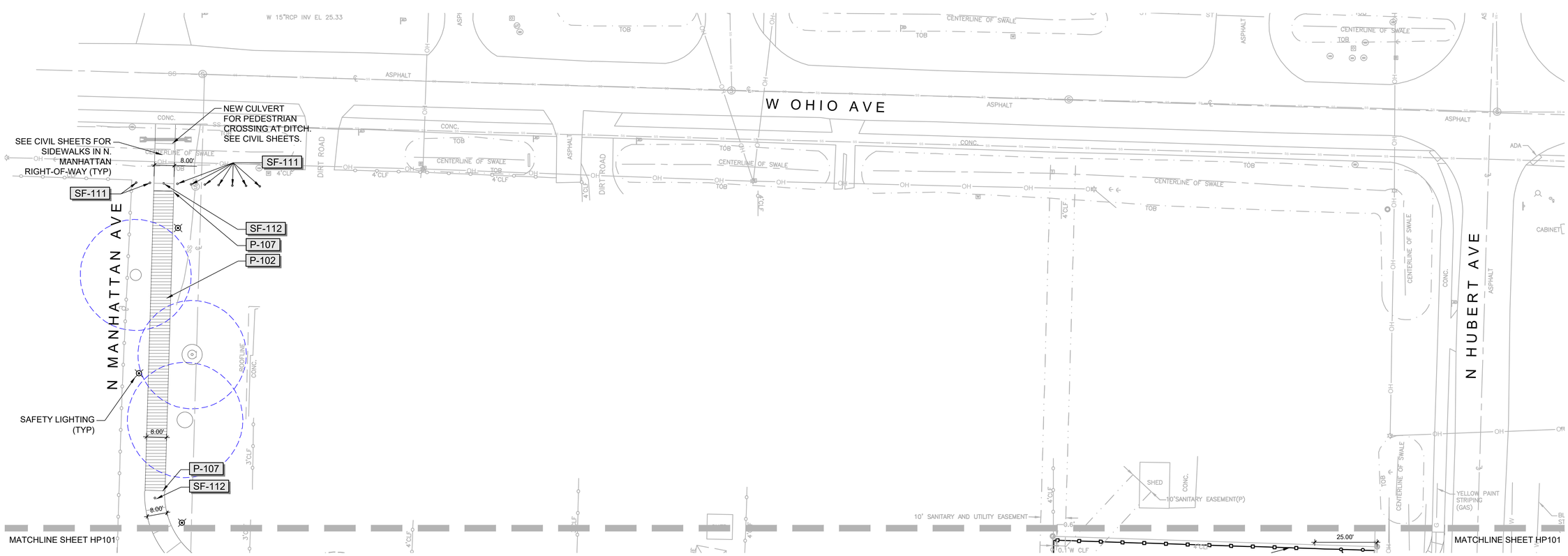
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Checked By: CJA

Sheet Title

HARDSCAPE PLAN

Sheet No.

HP101



NOTES

1. SEE SHEET HP601 FOR FINISHES AND FURNISHINGS.

NORTH

0' 10' 20' 40'
GRAPHIC SCALE

REFERENCE NOTES SCHEDULE

CODE	DESCRIPTION	DETAIL
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	SITE FURNISHINGS	
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SF-104	ADA 8' PICNIC TABLE (ITEM #F-4)	
SF-105	KIDS PICNIC TABLE (ITEM #F-5)	
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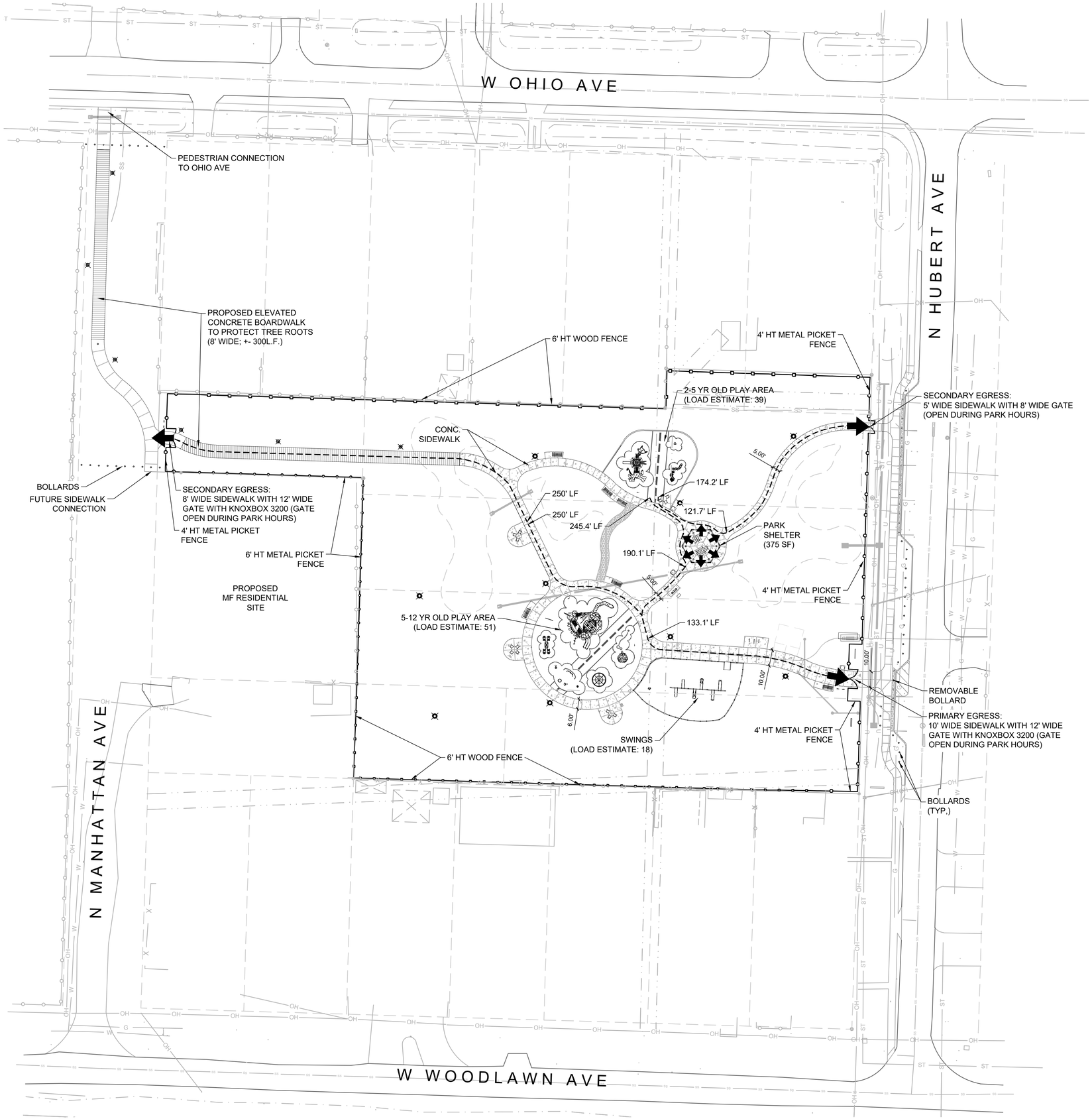
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Job No.:	**8702**
Drawn By:	**GLA**
Checked By:	**CJA**

Sheet Title

HARDSCAPE PLAN

Sheet No.

HP102



LIFE SAFETY EXHIBIT LEGEND

EGRESS EXIT

TRAVEL DISTANCE

OCCUPANCY LOAD

PARK SHELTER (375 SF @ 15 SF PER PERSON): 25
2-5 YR OLD PLAY AREA (13 PLAY ACTIVITIES X 3): 39
5-12 YR OLD PLAY AREA (17 ACTIVITIES X 3): 51
SWING AREA (6 ACTIVITIES X 3): 18

TOTAL OCCUPANT LOAD: 133

EGRESS CALCULATIONS

TOTAL PARK SHELTER AND PLAY EQUIPMENT OCCUPANT LOAD: 133
TOTAL EGRESS WIDTH REQUIRED 133 X .20" = 26.6"
TOTAL EGRESS WIDTH PROVIDED:
PRIMARY 120" EGRESS WITH 144" WIDE GATE PROVIDED
SECONDARY 60" EGRESS WITH 96" WIDE GATE PROVIDED
WESTERN SECONDARY 96" EGRESS WITH 144" WIDE GATE PROVIDED

NORTH

0' 15' 30' 60'
GRAPHIC SCALE

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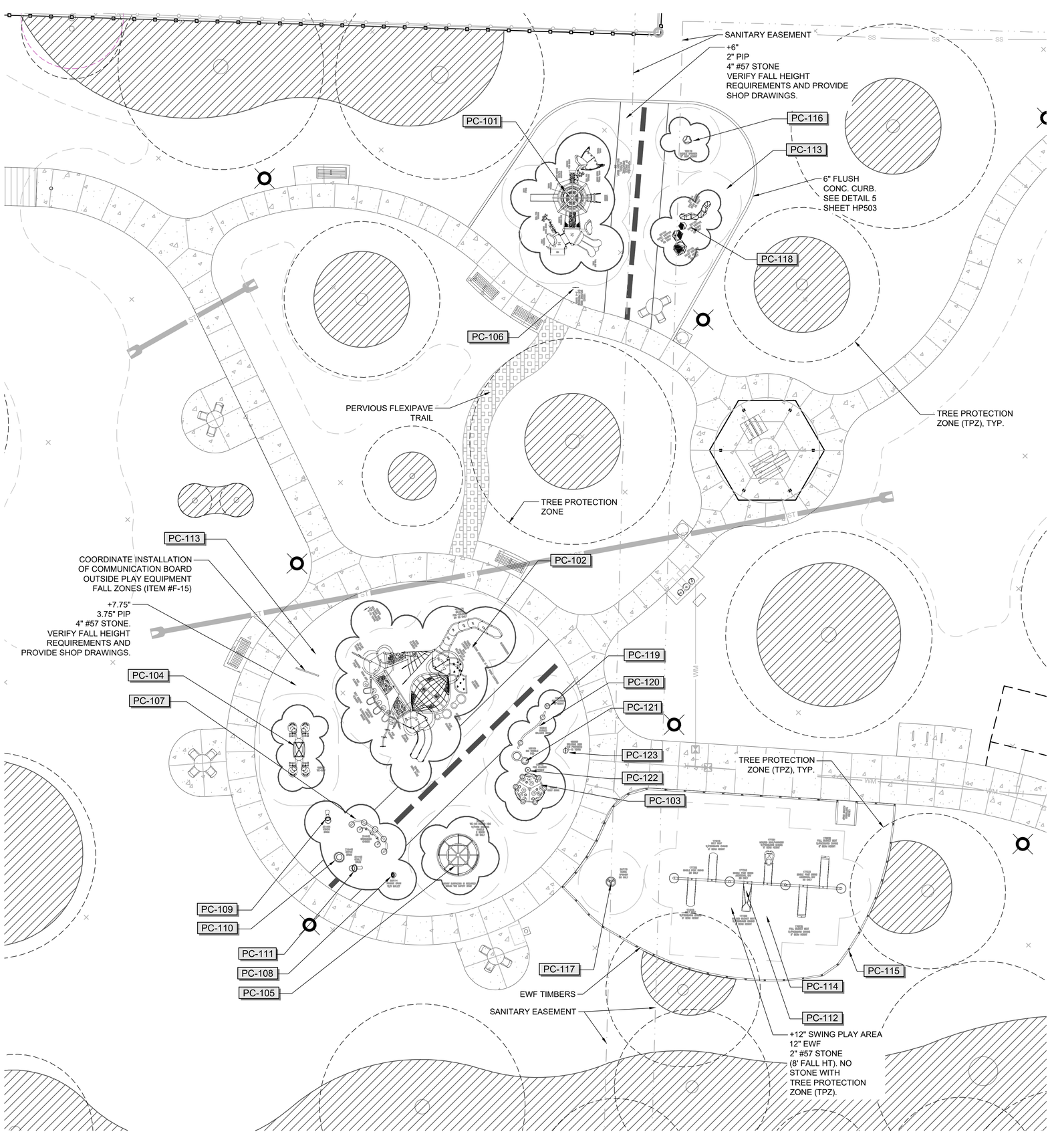
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Job No.:	**8702**
Drawn By:	**GLA**
Checked By:	**CJA**

Sheet Title

LIFE SAFETY PLAN

Sheet No.

LS100



REFERENCE NOTES SCHEDULE

CODE	DESCRIPTION	DETAIL
PLAY COMPONENTS		
PC-101	2-5 YEAR OLD PLAY EQUIPMENT (ITEM #P-1)	
PC-102	5-12 PLAY EQUIPMENT (ITEM #P-2)	
PC-103	PLAY DOME (ITEM #P-3)	
PC-104	WE-SAW (ITEM #P-4)	
PC-105	WE-GO-ROUND (ITEM #P-5)	
PC-106	PLAYGROUND WELCOME SIGN (2-5 YR) (ITEM #P-6)	
PC-107	PLAYGROUND GRANDIOSO CHIMES (ITEM #P-7)	
PC-108	PLAYGROUND TONGUE DRUM (ITEM #P-8)	
PC-109	PLAYGROUND KUNDU DRUM (ITEM #P-9)	
PC-110	PLAYGROUND KETTLE DRUM (ITEM #P-10)	
PC-111	PLAYGROUND GOBLET DRUM (ITEM #P-11)	
PC-112	SWING SET (ITEM #P-12) WITH ENGINEERED WOOD FIBER	
PC-113	POURED-IN-PLACE SAFETY SURFACING WITH CLOUD AND RUNWAY THEME (THREE COLORS) (ITEM #P-13)	
PC-114	ENGINEERED WOOD FIBER (ITEM #P-14)	6/HP504
PC-115	HD POLYETHYLENE TIMBERS AT SWING SET (ITEM #P-15)	5/HP504
PC-116	SADDLE SPINNER AT 2-5 YR AREA (ITEM #P-16)	
PC-117	CURVA SPINNER (ITEM #P-17)	
PC-118	FACET BALANCE BEAM AND FACET STEPPERS (ITEM #P-18)	
PC-119	10" POD CLIMBER (ITEM #P-19)	
PC-120	CURVED BALANCE BEAM (ITEM #P-20)	
PC-121	WOOBLE POD (ITEM #P-21)	
PC-122	POD CLIMBER 8" HEIGHT (ITEM #P-22)	
PC-123	PLAY AREA SIGN (5-12 YR) (ITEM #P-23)	

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Prepared By:

PlaceMaker Design Studio, LLC
Urban Design • Landscape Architecture • Land Planning

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MES Group
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Phone: (813) 644-8333

Prepared For:

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306 East Jackson Street
Tampa, Florida 33602

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4106, 4108, & 4110 N. Hubert Ave + 4115 N. Manhattan
Tampa, Florida

Seal

BID SET

REV	DATE	DESCRIPTION
1		
2		
3		
4		
5		

Date:	**MAY 15, 2026**
Job No.:	**8702**
Drawn By:	**GLA**
Checked By:	**CJA**

Sheet Title

PLAY AREA ENLARGEMENT

Sheet No.

HP401









NOTES:
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3. CONTRACTOR SHALL SUBMIT TRADE PERMIT AND OBTAIN APPROVAL FROM THE CITY OF TAMPA PRIOR TO CONSTRUCTION AND INSTALLATION. CONTRACTOR TO PROVIDE PERMIT LEVEL DRAWINGS FOR 100% CONSTRUCTION DOCUMENTS SHOWING STRUCTURAL DETAILING.
4. SEE SHEETS HP401 AND HP601 FOR LIST OF EQUIPMENT.

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Sheet Title

PLAY AREA PERSPECTIVES

Sheet No.

HP402









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3		
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5		

Date:	**MAY 15, 2026**
Job No.:	**8702**
Drawn By:	**GLA**
Checked By:	**CJA**

Sheet Title

PLAY AREA PERSPECTIVES

Sheet No.

HP403

poligon®

PROJECT:

LOCATION:

BUILDING TYPE: GXO2-24

ROOF TYPE: MULTI-RIB

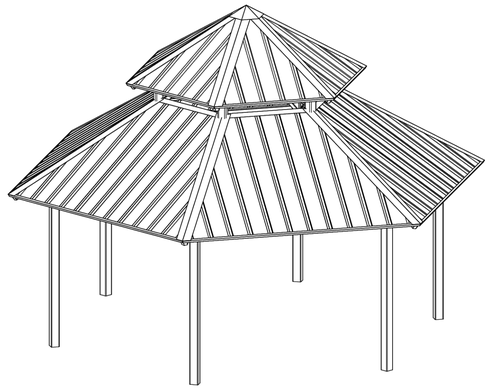
BUILDING NUMBER:

ORDER NUMBER:

QUOTE NUMBER:

DRAWING LIST:

SHEET NUMBER	DRAWING DESCRIPTION
CS	COVER SHEET
1	ARCHITECTURAL ELEVATIONS
2	STRUCTURAL FRAMING PLAN
3	COLUMN LAYOUT



CERTIFICATES:
MIAMI-DADE COUNTY CERTIFICATE OF COMPETENCY NO. 21-0819.13
PCI (POWDER COATING INSTITUTE) 4000 CERTIFIED

FABRICATOR APPROVALS:
CITY OF PHOENIX, AZ APPROVED FABRICATOR #C08-2010
CITY OF LOS ANGELES, CA APPROVED FABRICATOR #F801596
CITY OF RIVERSIDE, CA APPROVED FABRICATOR #SF_000042
CITY OF HOUSTON, TX APPROVED FABRICATOR #470
CLARK COUNTY, NV APPROVED FABRICATOR #264
STATE OF UTAH APPROVED FABRICATOR 02008-14
AISC APPROVED FABRICATOR C-00018751

MATERIALS:

DESCRIPTION	ASTM DESIGNATION
TUBE STEEL	A500 (GRADE B)
SCHEDULE PIPE	A53 (GRADE B)
RMT PIPE	A519
LIGHT GAGE COLD FORMED STRUCTURAL STEEL PLATE	A1003 (GRADE 50)
ROOF PANELS (STEEL)	A36 A653

GENERAL NOTES:
UNLESS NOTED OTHERWISE, THIS STRUCTURE WAS DESIGNED TO ONLY SUPPORT WHAT IS SHOWN ON THESE DRAWINGS. THE MANUFACTURER MUST BE CONTACTED IF ANYTHING ELSE IS TO BE ATTACHED TO THIS STRUCTURE (WALLS, COLUMN WRAPS, RAILINGS, ETC.) SO THE DESIGN OF THIS STRUCTURE CAN BE REVIEWED AND POSSIBLY REVISED.

UNLESS NOTED OTHERWISE, THIS STRUCTURE WAS DESIGNED ASSUMING A 20' SEPARATION BETWEEN ANY ADJACENT STRUCTURE WITH AN EAVE HEIGHT EQUAL TO OR GREATER THAN THE EAVE HEIGHT OF THIS STRUCTURE. IF THAT SEPARATION DOES NOT EXIST, THE MANUFACTURER MUST BE CONTACTED SO THE DESIGN OF THIS STRUCTURE CAN BE REVIEWED AND POSSIBLY REVISED.

STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED, AND ERECTED IN ACCORDANCE WITH THE LATEST EDITION OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) SPECIFICATION MANUAL.

ALL WELDING IS PERFORMED BY AMERICAN WELDING SOCIETY (AWS) CERTIFIED WELDERS AND CONFORMS TO THE LATEST EDITION OF AWS D1.1 OR D1.3 AS REQUIRED.

PARTS SHOWN MAY BE UPGRADED DUE TO STANDARDIZED FABRICATION. REFER TO THE SHIPPING BILL OF MATERIALS FOR POSSIBLE SUBSTITUTIONS.

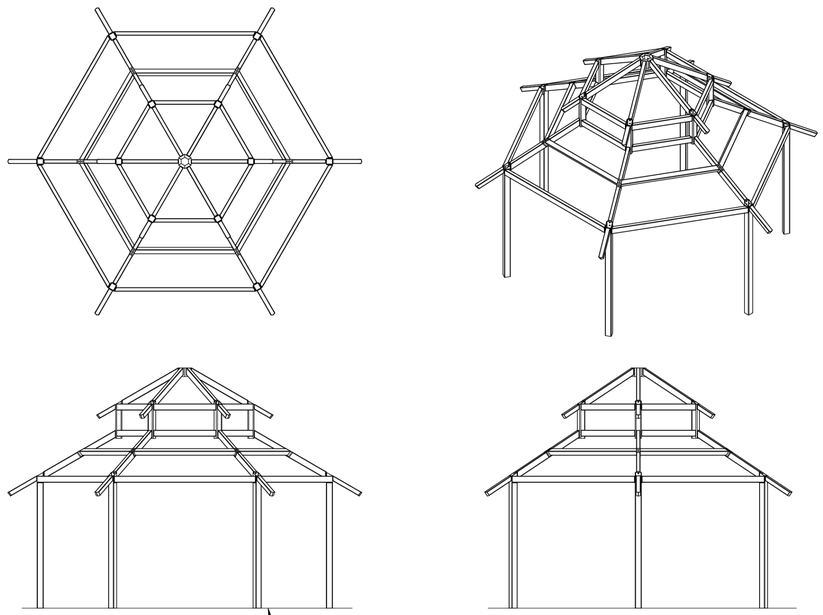
FOR PROPER FIELD INSTALLATION OF THE BUILDING IT IS RECOMMENDED THAT THE PRIMARY FRAME INSTALLER AND THE ROOF INSTALLER HAVE A MINIMUM FIVE (5) YEARS DOCUMENTED EXPERIENCE INSTALLING THIS TYPE OF PRODUCT.

FOR PROPER FIELD INSTALLATION OF THE BUILDING IT IS RECOMMENDED THAT ELECTRIC WIRING, IF REQUIRED, BE RUN THROUGH THE STRUCTURAL MEMBERS BEFORE THE BUILDING IS ERECTED.

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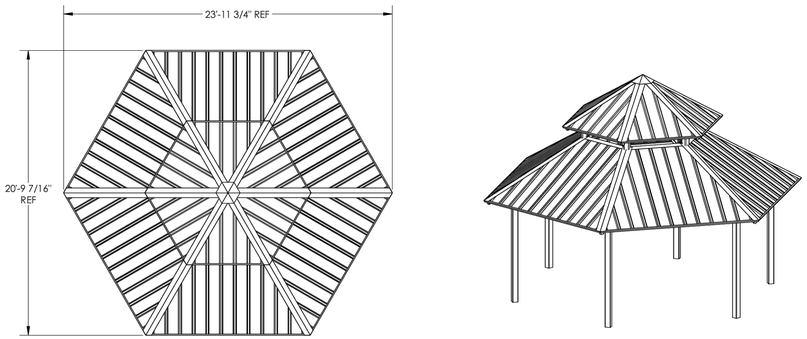
REV LEVEL: A10 | SCALE: 1:40
DRAWN BY: chris.lisac
PRINT DATE: 11/28/2023 | JOB NO.: | CAD NO/SHT: GXO2-24
PROJECT LOCATION: | DRAWING: COVER SHEET
SHEET: CS

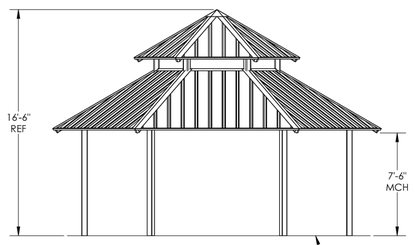
USE FOR PRELIMINARY PLANNING AND ESTIMATING ONLY

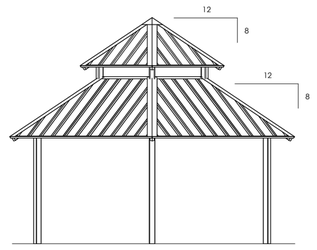


USE FOR PRELIMINARY PLANNING AND ESTIMATING ONLY

DRAWING: STRUCTURAL FRAMING PLAN
SCALE: 1:55 | REV LEVEL: A
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SHEET 2







GENERAL ROOF NOTES:

1. METAL ROOFING:
   - 24 GAUGE
   - GALVALUME COATED
   - KYNAR 500 PAINTED
2. TRIM COLOR MATCHES ROOF
3. SEE POLIGON.COM FOR COLOR OPTIONS

DRAWING: ARCHITECTURAL ELEVATIONS
SCALE: 1:60 | REV LEVEL: A
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SHEET 1

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FRAME COLOR: SURREY BEIGE
ROOF COLOR: EVERGREEN
COLORS SHOWN ARE FOR REFERENCE ONLY.
CONTACT INFO@POLIGON.COM TO REQUEST ACTUAL COLOR SAMPLES.

GXO2-24

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Prepared For:

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Hubert Avenue Park & Right-Of-Way Improvements

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Seal

BID SET

REV	DATE	DESCRIPTION
5		
4		
3		
2		
1		

Date: MAY 15, 2026
Job No.: 8702
Drawn By: GLA
Checked By: CJA

Sheet Title

HARDSCAPE DETAILS

Sheet No.

HP501

HUBERT AVENUE PARK & RIGHT-OF-WAY IMPROVEMENTS

GENERAL NOTES

GENERAL

1. THIS STRUCTURE HAS BEEN DESIGNED IN ACCORDANCE WITH THE PROJECT ARCHITECTS PLAN LAYOUT AND GUIDELINES SUITABILITY FOR ACCESS AND INTENDED USAGE SHALL BE THE RESPONSIBILITY OF THE ARCHITECT.

2. VEHICULAR ACCESS LARGER THAN THE DESIGN LIVE LOAD SHALL BE LIMITED BY PERMANENT PHYSICAL MEANS.

3. PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL VERIFY ALL ELEVATIONS THROUGH THE PROJECT ARCHITECT. PRIOR TO CONSTRUCTION, ALL FOUNDATION LOCATIONS SHALL BE STAKED BY THE SURVEYOR PER THE APPROVED DRAWINGS MARKED 'FOR CONSTRUCTION'.

4. ONLY PERMATRAK NORTH AMERICA MAY PROVIDE THE PRECAST STRUCTURE SHOWN ON THESE PLANS.

5. INSTALLER SHALL NOT CUT OR MODIFY ANY PERMATRAK COMPONENTS WITHOUT PERMATRAK'S APPROVAL.

6. THE INSTALLER IS RESPONSIBLE FOR THE APPROPRIATE MEANS AND METHODS FOR THIS PROJECT, INCLUDING ENSURING PROPER CONSTRUCTIBILITY OF ALL COMPONENTS SHOWN ON THESE PLANS. NO EQUIPMENT MAY BE OPERATED ON THE STRUCTURE, UNLESS NOTED OTHERWISE IN THE DESIGN DATA ON THIS SHEET.

7. A MATERIAL CHANGE TO THE BOARDWALK SYSTEM IS NOT ALLOWED AND NOT CONSIDERED AN EQUAL.

8. PRIOR TO CONSTRUCTION, ALL EXISTING UTILITIES, BUILDING LOCATIONS, EXISTING FOUNDATIONS AND TREE ROOTS (AS APPLICABLE) SHALL BE LOCATED TO VERIFY NO CONFLICTS EXIST WITH THE STRUCTURES SHOWN ON THESE PLANS.

DESIGN DATA

1. BOARDWALK SHALL BE DESIGNED IN ACCORDANCE WITH THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS AND THE LRFD GUIDE SPECIFICATION FOR THE DESIGN OF PEDESTRIAN BRIDGES.

2. DESIGN LIVE LOAD: PEDESTRIAN LOADING - 90 PSF UNIFORM VEHICULAR LOADING - 5,000 LB. MAINTENANCE VEHICLE

3. A HYDRAULIC ANALYSIS, INCLUDING SCOUR EVALUATION, HAS NOT BEEN PERFORMED BY PERMATRAK. THIS SCOPE IS THE RESPONSIBILITY OF THE DESIGN CONSULTANT.

4. THE RAILING SUPPLIER IS RESPONSIBLE FOR THE ENGINEERING OF THE DETAILED RAILING IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.

5. ALL RECOMMENDATIONS FOUND IN THE REPORT OF SUBSURFACE INVESTIGATION SHALL BE FOLLOWED. THE GEOTECHNICAL REPORT ENTITLED "GEOTECHNICAL ENGINEERING SERVICES REPORT = PROPOSED CITY OF TAMPA PARK". THE REPORT WAS DATED DECEMBER 19, 2024 AND PRODUCED BY PSI. THE FOOTINGS HAVE BEEN DESIGNED FOR AN ALLOWABLE BEARING PRESSURE OF 2500 PSF.

MATERIAL

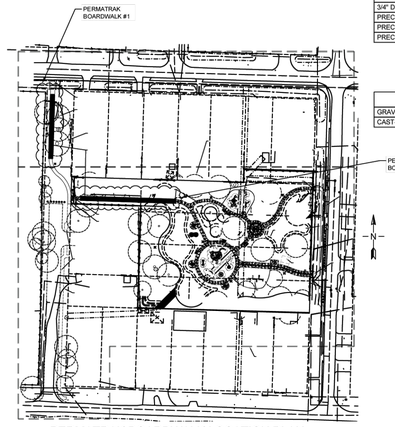
1. FASTENERS, BOLTS AND HARDWARE SHALL BE GALVANIZED, FIBER REINFORCED POLYMER (FRP) OR GRADE 316 STAINLESS STEEL.

2. ALL REINFORCING SHALL BE UNCOATED GRADE 60 CONFORMING TO ASTM A615.

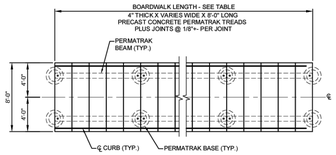
PROJECT COMPONENTS

SUPPLIED BY PERMATRAK
PRECAST CONCRETE TREADS
PRECAST CONCRETE BEAMS
RUBBER SPACER PADS (BETWEEN TREADS)
RUBBER LEVELING PADS (BETWEEN TREAD AND BEAM)
SHIMS (LEVELING FOR PRECAST COMPONENTS)
PRECAST BASES
ELASTOMERIC BEARING PADS (BETWEEN BEAM AND FOUNDATION)
LIFTING EYE BOLTS
PATCHING MATERIAL
3/4" DIA. COILED RODS WITH NUTS AND OVERSIZED WASHERS (CURB TO TREAD CONNECTION)
PRECAST CONCRETE CURBS
PRECAST CONCRETE CAPS
PRECAST CONCRETE RISERS

SUPPLIED BY CONTRACTOR
GRAVEL SUBBASE
CAST-IN-PLACE APPROACHES



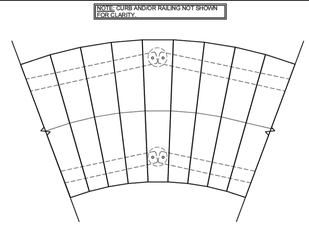
PERMATRAK BOARDWALK LOCATION PLAN



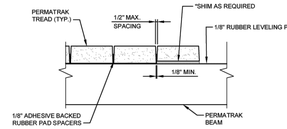
BOARDWALK PLAN
SCALE = 1/4" = 1'-0"

APPROXIMATE NUMBER OF COMPONENTS REQUIRED PER STRUCTURE:

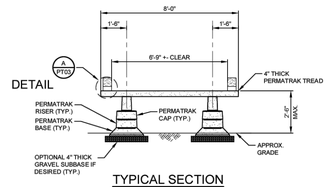
STRUCTURE	APPROXIMATE LENGTH FT. (ALONG CENTERLINE)	APPROXIMATE AREA	# BASES	# RISERS	# CAPS
BOARDWALK #1	120.00 FT +-	960 SQ. FT. +-	26	22	22
BOARDWALK #2	180.00 FT +-	1440 SQ. FT. +-	38	34	34
TOTALS	300.00 FT +-	2400 SQ. FT. +-	64	56	56



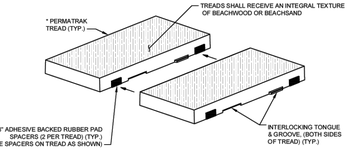
TYPICAL SKEW DETAIL



TYPICAL SHIM (UNDER TREAD) & TREAD SPACING DETAIL
SCALE: NOT TO SCALE



TYPICAL SECTION
SCALE = 1/2" = 1'-0"



TYPICAL TREAD RUBBER SPACING DETAIL
SCALE: NOT TO SCALE

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NO.	DATE	DESCRIPTION	BY:
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4			
3			
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1			

PREPARED FOR:
PLACEMAKER DESIGN STUDIO, LLC.

PRELIMINARY
NOT FOR CONSTRUCTION

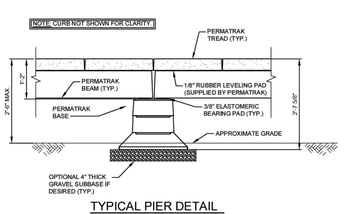
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www.permatrak.com TEL: 877-332-7862

OFFICE LOCATIONS: NORTH CAROLINA | SOUTH CAROLINA | FLORIDA | OHIO | GEORGIA | TEXAS

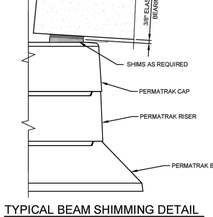
Patented Product: U.S. Patent #8,302,362, #8,522,505, #9,096,975, #D940,912, #D925,068 & Other Patents Pending

PROJECT TITLE:
HUBERT AVENUE PARK & RIGHT-OF-WAY IMPROVEMENTS
TAMPA, FL

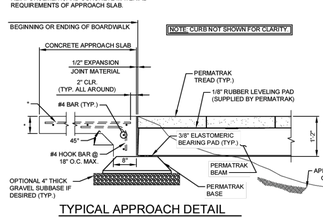
JOB NUMBER: 2024-2534
DATE: 01/24/2025
DESIGNED BY: KAS
DRAWN BY: KAS
CHECKED BY: KAS
SHEET NO. PT01



TYPICAL PIER DETAIL
SCALE: 1" = 1'-0"

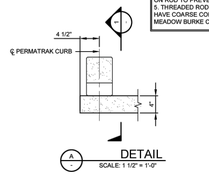


TYPICAL BEAM SHIMMING DETAIL

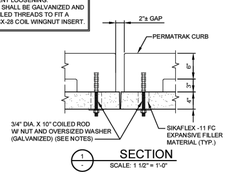


TYPICAL APPROACH DETAIL
SCALE: 1" = 1'-0"

NOTES:
1. 2" DIAMETER PREFORMED HOLES SUPPLIED BY PERMATRAK.
2. CONNECTION HARDWARE SUPPLIED BY PERMATRAK.
3. FILL OVERSIZED DOWEL HOLES WITH SIKAFLEX-11 FC OR APPROVED EQUAL.
4. AFTER TIGHTENING NUT, DEFORM THREADS ON ROD TO PREVENT LOOSENING.
5. THREADED ROD SHALL BE GALVANIZED AND HAVE COARSE COILED THREADS TO FIT A MEADOW BURKE CX-28 COIL WINGNUT INSERT.



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



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



ELASTOMERIC PAD PLAN
SCALE: 3"= 1'-0"

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PREPARED FOR:
PLACEMAKER DESIGN STUDIO, LLC.

PRELIMINARY
NOT FOR CONSTRUCTION

PermaTrak® The Concrete Boardwalk Company
www.permatrak.com TEL: 877-332-7862

OFFICE LOCATIONS: NORTH CAROLINA | SOUTH CAROLINA | FLORIDA | OHIO | GEORGIA | TEXAS

Patented Product: U.S. Patent #8,302,362, #8,522,505, #9,096,975, #D940,912, #D925,068 & Other Patents Pending

PROJECT TITLE:
HUBERT AVENUE PARK & RIGHT-OF-WAY IMPROVEMENTS
TAMPA, FL

JOB NUMBER: 2024-2534
DATE: 01/24/2025
DESIGNED BY: KAS
DRAWN BY: KAS
CHECKED BY: KAS
SHEET NO. PT02

ELEVATED PRECAST CONCRETE BOARDWALK
PROJECT SPECIFICATIONS V4.1 UPDATED SEPTEMBER 2023

PRECAST CONCRETE BOARDWALK SYSTEM

PART 1-GENERAL

1.1 SUMMARY

A. These specifications are for a precast concrete boardwalk and shall be regarded as minimum standards for this project. These specifications are based upon products designed and supplied by:

PermaTrak North America LLC
Ph: (706) 550-8460
Ph: 877-332-7862
www.permatrak.com
Contact: Ms. Carrie Parada
cparada@permatrak.com

This item shall also include the design, specification, and construction of a railing and foundation system that is attached to the proposed boardwalk system.

1.2 MINIMUM STANDARDS: The selected boardwalk shall have the following minimum characteristics:

A. The precast system shall be designed as a modular flexible system allowing a prescribed settlement at pier locations. Joints shall be designed for such movement to occur without damage to the structural integrity of the system.

B. Boardwalk system (beams, treads, and curbs if applicable) must be reinforced precast concrete. A material change, including cast-in-place concrete, is not considered an equal to the design shown on the bid documents.

C. Walking surface (treads) shall be made of reinforced precast concrete, and supported by reinforced precast concrete beams. Where applicable, edges of treads will receive precast concrete curbs.

D. Walking surface (finish) of top surface of treads shall have a formliner finish with one of PermaTrak's standard textures. Texture must be integral with the concrete and shall not be an applied post pour wearing surface.

E. Precast concrete treads shall be structural load bearing elements and shall interlock with one another via a "tongue and groove" connection.

F. All precast shall consist of integrally colored concrete in a color selected by the owner from one of PermaTrak's "standard colors". All color pigment shall meet ASTM C979 Standard Specification for Pigments for Integrally Colored Concrete.

G. DESIGN LOADS: See PT01 for pedestrian and vehicular design live loads.

H. Treads shall maintain a "boardwalk appearance", specifically meaning each tread shall have a width: length ratio ranging from a minimum of 3:1 to a maximum of 14:1. Width is defined as the tread dimension perpendicular to the normal direction of travel. Length is defined as the tread dimension measured in the direction of travel.

I. Tread width shall be as noted on the contract drawings. Alignment should follow the horizontal and vertical alignment shown on the contract plans.

J. Connectors for curbs (if applicable) to treads shall not be visible to boardwalk users while viewed from the top of the walkway.

K. All tread-to-beam connectors shall be non-corrosive, and hidden from view. Metallic tread-to-beam connectors are not acceptable for this project.

L. Boardwalk supplier shall provide a field representative on site for a minimum of 2 days. Field representative shall be knowledgeable in the installation of precast concrete boardwalks.

1.3 QUALITY ASSURANCE

A. The contractor performing the installation of the pile foundations shall have installed piles of size and length similar to those shown on the plans for a minimum of three (3) years prior to the bid date for this project. The contractor shall submit a list containing at least three (3) projects completed in the last three (3) years on which the contractor has installed piles of a size and length similar to those shown on the plans. The list of projects shall contain names and phone numbers of owner's representatives who can verify the Contractor's participation on those projects.

B. Manufacturer Qualifications: Not less than 10 years experience in the actual production of precast products as described below.

1. Components shall be factory fabricated and engineered by single entity. This entity shall be registered to do business in the State of the project location.
2. Boardwalk supplier (Precastor) for the boardwalk shall have in-house color mixing facilities for color pigmentation.
3. Boardwalk supplier (Precastor) shall have either a minimum experience of 5 years or 50 boardwalk projects in design, production, and field consultation.
4. Boardwalk supplier (Precastor) must be certified by PCI or NPCA.
5. Precast components must be manufactured with the use of hot rolled steel skin in reinforced steel forms. Forms (i.e., Timber) and/or single use forms are unacceptable unless approved in writing by the Boardwalk Engineer.

C. Acceptability Criteria for Treads and Curbs (if applicable): The finished visible (in the final installed position) surface shall have no obvious imperfections other than minimal color or texture variations from the approved samples or evidence of repairs when viewed in good typical daylight illumination with the unaided naked eye at a 20 ft. viewing distance. Appearance of the surface shall not be evaluated when light is illuminating the surface from an extreme angle as it tends to accentuate the minor surface irregularities. The following is a list of finish defects that shall be properly repaired, if obvious when viewed at a 20 ft. distance. Patching (by a trained skilled concrete repair person) is an acceptable repair method.

1. Ragged or irregular surfaces.
2. Excessive air voids (commonly called bug holes) larger than ⅛ in. evident on the top surface of the tread or curbs (if applicable).
3. Adjacent flat and return surfaces with greater texture and/or color differences than the approved samples or mockups.
4. Casting and/or aggregate segregation lines evident from different concrete placement lifts and consolidation.
5. Visible mold joints or irregular surfaces.
6. Rust stains on exposed surfaces.
7. Units with excessive variation in texture and/or color from the approved samples, within the unit or compared with adjacent units.
8. Blocking stains evident on exposed surfaces.
9. Areas of backup concrete bleeding through the facing concrete.
10. Foreign material embedded in the surface.
11. Visible repairs at a 20 ft. viewing distance.
12. Reinforcement shadow lines.
13. Cracks visible at a 20 ft. viewings distance.

D. Installer Qualifications: Firm with 3 years experience in installation of systems similar in complexity to those required for this Project.

E. Mock-Up: Provide, if required by Architect/ Engineer, a mock-up for evaluation of the boardwalk showing the surface preparation techniques and application workmanship.

1. Finish areas designated by Architect / Engineer.
2. Do not proceed with remaining work until mock-up is accepted by Architect / Engineer.
3. Refinish mock-up area as required to produce acceptable work.

1.4 DESIGN

A. For applications requiring minimum disturbance due to tree roots or other existing objects specified by the Owner to be avoided during construction, the Boardwalk Manufacturer requires the Contractor or Engineer/Architect to provide a survey of the proposed boardwalk location identifying items of interest including tree roots that cannot be disturbed per the Owner.

B. The designer of the boardwalk, foundation and railing system shall be a qualified registered Professional Engineer licensed in the State of the project location and having a minimum of 20 years of experience in the design of concrete structures, foundation and railing systems.

C. The foundation design shown on the boardwalk drawings are based recommendations found in the geotechnical report entitled referenced on PT01 (if applicable).

A. DESIGN CRITERIA: The design of the boardwalk and railing system shall comply with the following guidelines:

1. AASHTO LRFD Guide Specifications for The Design of Pedestrian Bridges, 2nd Edition with 2015 Interim Revisions.
2. Latest Version of AASHTO LRFD Bridge Design Specifications for Highway Bridges.
3. Latest Version of American Concrete Institute - Building Code and Commentary.
4. In addition to the dead loads of the system, the structure shall be designed for the live loads defined in Section 1.2 G above.

1.5 SUBMISSIONS: Prior to the start of fabrication or construction, the Contractor shall submit to the Engineer a design package, which shall include but not limited to the following:

A. FOR APPROVAL SUBMISSIONS: Prior to the start of fabrication or construction, the Contractor shall submit to the Engineer a design package, which shall include but not limited to the following:

1. DETAILED PLANS:
   a. PLAN VIEW: Full plan view of the boardwalk, foundation and railing system drawn to scale. The plan view must reflect the proposed horizontal alignment as shown on the design plans.
   b. PARTIAL ELEVATION VIEW (IF REQUESTED): Full elevation view of the boardwalk, railing and foundation system drawn to scale which reflect the actual vertical alignment. Elevation views shall indicate the elevation at the top and bottom of the boardwalk and foundation system components.
   c. DETAILS: Details of all boardwalk and railing system components and their connections such as the length, size and where changes occur; connections; etc.
   d. CODE REFERENCE: Design parameters used along with AASHTO references.
2. CONSTRUCTION SPECIFICATIONS:
   a. Construction methods specific to the boardwalk vendor chosen. Submittal requirements such as certification, quality and acceptance/rejection criteria shall be included. Details on connection of boardwalk units and foundation system such that assurance of uniform load transfer shall be checked.

B. FINAL SUBMISSION: Once a boardwalk, foundation and railing system design has been reviewed and accepted by the Owner, the Contractor shall submit the final plans. The designer of the boardwalk, foundation and railing system is responsible for the review of any drawings prepared for fabrication. One set of all approved shop drawings shall be submitted to the Engineer's permanent records.

C. SUBMITTALS: Product Data: Submit Manufacturer's technical product data for railing components and accessories.
Manufacturer to supply submittal drawings for approval to include the following:

1. Section-thru details.
2. Mounting methods.
3. Typical Elevations.
4. Key plan layout.

D. SHOP DRAWINGS: Shop drawings shall:

1. Be stamped by a licensed Professional Engineer in the State of the project location.
2. Show actual field conditions and true elevation and location supplied after field verification.
3. Clearly detail reinforcement in beams, treads and curbs including dimensions from concrete edge, size and amount of rebar.
4. Clearly state concrete compressive strength, steel type and strength, and a listing of all component weights including lifting lugs.

1.6 DELIVERY, STORAGE, AND HANDLING

A. Store products in manufacturer's unopened packaging until ready for installation.

B. Field Measurements: Where handrails and railings are indicated to fit to other construction, check actual dimensions of other construction by accurate field measurements before fabrication; show recorded measurements on final shop drawings:

1. Where field measurements cannot be made without delaying the railing fabrication and delivery, obtain guaranteed dimensions in writing by the Contractor and proceed with fabrication of products so as not to delay fabrication, delivery and installation.

C. Coordinate fabrication and delivery schedule of handrails with construction progress and sequence to avoid delay of railing installation.

1. Air entrained composed of Portland cement, fine and course aggregates, admixtures and water. The air-entraining feature may be obtained by the use of either an air entraining Portland cement or an air entraining admixture. The entrained air-content shall be not less than four percent or more than seven percent.

1.7 WARRANTY:

A. Contractor will be responsible for installation defects associated with the boardwalk and abutment components, foundation system, and railings for a period of 12 calendar months from the date of final acceptance by the Owner.

B. Boardwalk manufacturer shall warranty all precast concrete components against defects in material and workmanship for a period of 10 years.

C. Railing manufacturer shall warranty the railing against defects in materials and workmanship for a period of 12 months.

1.8 MEASUREMENT AND PAYMENT

A. Precast concrete boardwalk, railings, and foundations shall be paid for at the contract lump sum price as listed in the bid proposal for "Precast Concrete Boardwalk". This price shall include all materials, equipment, labor and work necessary for and incidental to the design, construction, delivery, unloading, assembly, and placement of the boardwalk and foundation as shown in the contract plans including all railings on the superstructure.

PART 2-MATERIALS & TESTING

2.1 PRECAST CONCRETE: shall conform to the following:

A. The minimum compressive strength of the concrete shall be 4000 psi measured at 28 days.
B. All precast concrete shall contain structural steel reinforcement as designed by the Engineer of record.
C. All precast concrete components shall be air entrained composed of Portland cement, fine and course aggregates, admixtures and water. The air-entraining feature may be obtained by the use of either an air entraining Portland cement or an air entraining admixture. The entrained air-content shall be not less than four percent or more than seven percent.
D. All reinforcing steel shall be standard uncoated steel conforming to ASTM A615

PART 3 - EXECUTION

1.1 PRECAST CONCRETE BOARDWALK

A. Installation of the precast concrete boardwalk system and railings, if applicable, shall be performed in accordance to the approved plans and manufacturers installation instructions. Boardwalk manufacturer shall provide a field representative to review installation instructions with the Contractor and Engineer and to certify that the installation has been performed according to the approved drawings and manufacturer's instructions.

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PREPARED FOR:
PLACEMAKER DESIGN STUDIO, LLC.

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PermaTrak® The Concrete Boardwalk Company
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OFFICE LOCATIONS: NORTH CAROLINA | SOUTH CAROLINA | FLORIDA | OHIO | GEORGIA | TEXAS

Patented Product: U.S. Patent #8,302,362, #8,522,505, #9,096,975, #D940,912, #D925,068 & Other Patents Pending

PROJECT TITLE:
HUBERT AVENUE PARK & RIGHT-OF-WAY IMPROVEMENTS
TAMPA, FL

JOB NUMBER: 2024-2534
DATE: 01/24/2025
DESIGNED BY: KAS
DRAWN BY: KAS
CHECKED BY: KAS
SHEET NO. PT03

NOTES:
1. THE DRAWINGS ON THIS SHEET SHOW DESIGN INTENT AND ARE NOT FOR CONSTRUCTION. SHOP DRAWINGS WITH FINISH SAMPLES REQUIRED FOR APPROVAL BY LANDSCAPE ARCHITECT PRIOR TO FABRICATION / INSTALLATION AT TIME OF FINAL DESIGN AND ENGINEERING.
2. ALL STRUCTURAL SHALL BE BY A STRUCTURAL ENGINEER. SUBMIT STRUCTURAL SHOP DRAWINGS FOR REVIEW BY LANDSCAPE ARCHITECT.
3. CONTRACTOR SHALL SUBMIT TRADE PERMIT AND OBTAIN APPROVAL FROM THE CITY OF TAMPA PRIOR TO CONSTRUCTION AND INSTALLATION. CONTRACTOR TO PROVIDE PERMIT LEVEL DRAWINGS FOR 100% CONSTRUCTION DOCUMENTS SHOWING STRUCTURAL DETAILING AND ISA CERTIFIED AIR SPADE REPORT (SEE BELOW).
4. WHERE EXISTING SOILS CANNOT BE COMPACTED TO THE GEOTECHNICAL RECOMMENDED 2500 MINIMUM ALLOWABLE BEARING CAPACITY, CONTRACTOR SHALL HAVE AN ISA CERTIFIED ARBORIST REMOVE AIR SPADE SOILS UP TO A 6" DEPTH, COMPACT SUBGRADE, AND PLACE COMPACTABLE FILL (OR COMPACTED AGGREGATE OVER A GEOTEXTILE FABRIC AS REQUIRED) TO ACHIEVE THE RECOMMENDED BEARING CAPACITY WITHIN A 30" X 30" SQUARE AREA THAT THE PERMATRAK BASE WILL CONTACT. CONTRACTOR HSALL HAVE AN ISA CERTIFIED ARBORIST AIRSPADE REPORT ON FOOTING LOCATIONS PREPARED AND PROVIDED WITH SHOP DRAWINGS TO BE SUBMITTED TO THE CITY OF TAMPA FOR PERMITTING. CONTRACTOR MAY EXCAVATE LESS IF ABLE TO ACHIEVE THE REQUIRED LEVELING, ELEVATIONS, AND GEOTECHNICAL RECOMMENDED MINIMUM ALLOWABLE BEARING CAPACITY. NOTIFY A CITY REPRESENTATIVE IF ANY SOIL IS ENCOUNTERED THAT REQUIRES A GREATER THAN 6" COMPACTED SUBBASE. CONTRACTOR IS RESPONSIBLE FOR SURFACE PREPARATION, SUB-GRADE COMPACTION, PLACEMENT AND COMPACTION OF FILL MATERIAL AND SHALL PRESERVE ALL ROOTS LARGER THAN 2" DIAMETER AND REVIEW WITH A CITY REPRESENTATIVE PRIOR TO SEVERING; REVIEW MEANS AND METHODS WITH CITY REPRESENTATIVE PRIOR TO BEGINNING WORK. CONTRACTOR SHALL COMPACT AND LEVEL THE SUBBASE AS REQUIRED FOR INSTALLATION. CONTACT A CITY REPRESENTATIVE IF LARGER ROOTS ARE REQUIRED TO BE SEVERED. ROOT PRUNING SHALL BE SEVERED BY CLEAN PRUNING CUTS WITH A PRUNING SAW, CHAIN SAW, OR OTHER EQUIPMENT DESIGNED FOR TREE PRUNING AND SHALL BE DONE AFTER NOTIFYING A CITY REPRESENTATIVE. CONTRACTOR SHALL REVIEW THE EXISTING CONDITIONS AT THE SITE AND INCLUDE ALL MATERIAL AND LABOR IN THE BID REQUIRED TO ACHIEVE THE GEOTECHNICAL RECOMMENDED COMPACTION RATES AND LEVEL SURFACE FOR INSTALLATION. CONTRACTOR SHALL ANTICIPATE AND INCLUDE IN BID, ROOT PRUNING (WHEN APPROVED BY A CITY REPRESENTATIVE) AND FIELD ADJUSTMENTS AS NECESSARY TO ALLOW LONGITUDINALLY SHIFTS (WITHIN THE MANUFACTURER'S ALLOWANCE) TO THE PERMATRAK BASE AND RISERS TO AVOID CONFLICTS WITH SURFACE ROOTS.
5. CONTRACTOR SHALL REVIEW THESE DRAWINGS IN DETAIL PRIOR TO BIDDING. FULL SIZE PLANS ARE AVAILABLE UPON REQUEST. PURPOSE OF BOARDWALK IS TO MINIMIZE IMPACTS TO TREES ROOTS AND PROVIDE SAFE PEDESTRIAN PASSAGE.

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Prepared By:

PlaceMaker Design Studio, LLC
Urban Design • Landscape Architecture • Land Planning

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Prepared For:

City of Tampa
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Tampa, Florida 33602

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Hubert Avenue Park & Right-Of-Way Improvements
4106, 4108, & 4110 N. Hubert Ave + 4115 N. Manhattan Ave
Tampa, Florida

Seal

BID SET

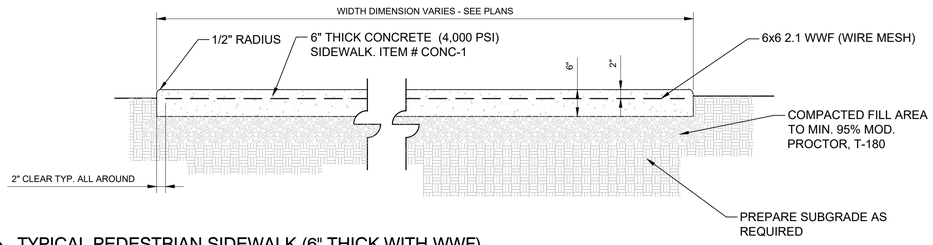
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Date: MAY 15, 2026
Job No.: 8702
Drawn By: GLA
Checked By: CJA

Sheet Title
HARDSCAPE DETAILS

Sheet No.
HP502

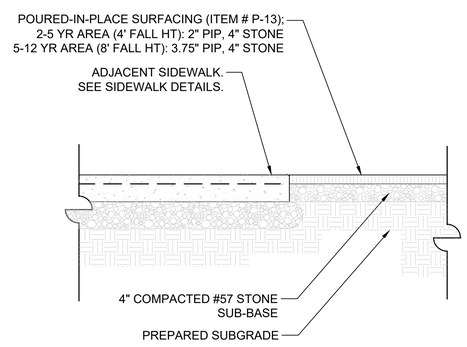
NOTES:
1. SIDEWALK SHALL BE CONSTRUCTED IN CONFORMANCE WITH FDOT STANDARD INDEX 310 AND STANDARD SPECIFICATION 522 AND CORRESPONDING STANDARDS.
2. PROVIDE BROOM FINISH.
3. COMPACT FILL AREAS TO MINIMUM 95% MOD. PROCTOR, T-180. REMOVE ORGANIC MATTER WITHIN FOOTPRINT OF NEW CONCRETE (TYP). IF REQUIRED MIX IS SMALL GRAVEL, CRUSHED CONCRETE OR STRUCTURAL IMPORTED FILL TO ACHIEVE MINIMUM COMPACTION REQUIREMENTS.
4. SIDEWALK SHALL HAVE CONTRACTION JOINTS SPACED EQUALLY TO THE SIDEWALK WIDTH AND HAVE EXPANSIONS JOINTS EVERY 15' MAXIMUM. CONCRETE CASTS SHALL BEGIN AND END AT EXPANSIONS JOINTS. ALL EDGES SHALL BE TOOLED TO 1/4" RADIUS, UNLESS OTHERWISE NOTED. SEE SITE PLAN FOR JOINT LAYOUT. REMOVE ANY ZIP STRIP/VOID CAPS PRIOR TO SUBSTANTIAL COMPLETION (TYP).
5. CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH OF 4000 PSI IN 28 DAYS. CONCRETE SLAB TO BE REINFORCED WITH STEEL FIBER MESH. REBAR SHALL NOT COME WITHIN 2" OF THE EDGE OF CONCRETE.
6. SIDEWALKS SHALL HAVE A MAXIMUM RUNNING SLOPE OF 1:20 (5%) AND A MAXIMUM CROSS SLOPE OF 1:48 (2%) PER 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN SECTION 403.3
7. CURB RAMPS SHALL BE CONSTRUCTED IN CONFORMANCE WITH ADA STANDARDS FOR ACCESSIBLE DESIGN SECTION 406 AND 2010 FDOT STANDARD INDEX 304.
8. CONTRACTOR SHALL REPLACE ANY PAVEMENT THAT DEVELOPES UNCONTROLLED CRACKS.



1 TYPICAL PEDESTRIAN SIDEWALK (6" THICK WITH WWF)

3/4" = 1'-0" P-HU-HAR-118

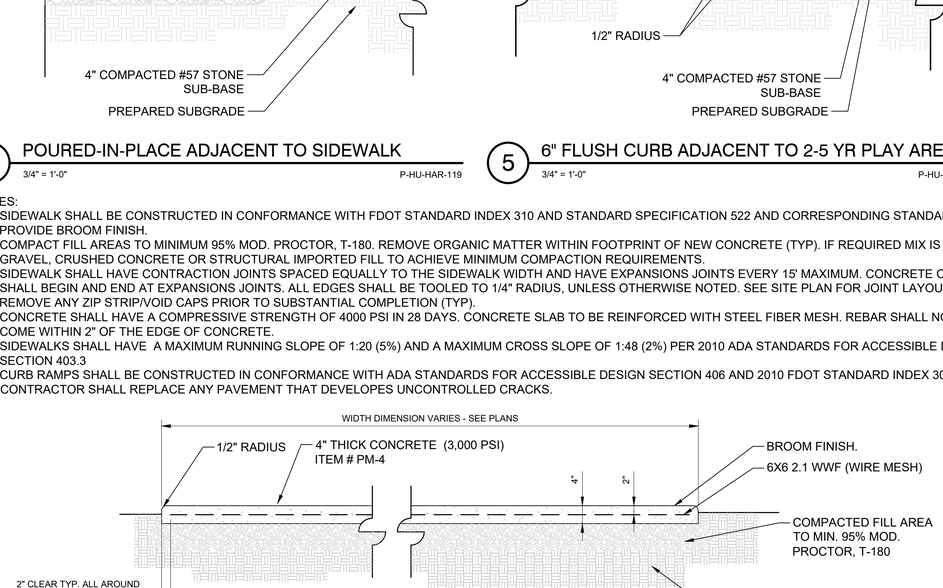
NOTE: POURED IN PLACE SURFACING SHOWN IN THIS DETAIL IS FOR REFERENCE ONLY. POURED IN PLACE SURFACING SHALL BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS. DRAWING FOR REFERENCE ONLY. CONSTRACTOR SHALL SUBMIT SHOP DRAWINGS TO LANDSCAPE ARCHITECT FOR ALL PLAY AREA SURFACES.



4 POURED-IN-PLACE ADJACENT TO SIDEWALK

3/4" = 1'-0" P-HU-HAR-119

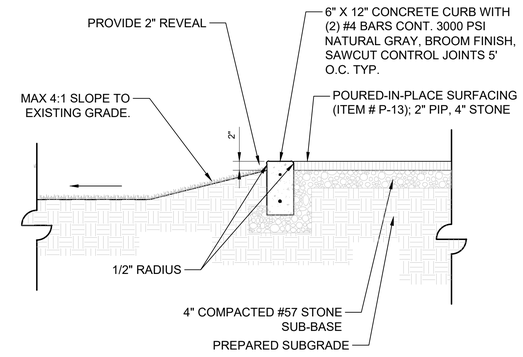
NOTES:
1. SIDEWALK SHALL BE CONSTRUCTED IN CONFORMANCE WITH FDOT STANDARD INDEX 310 AND STANDARD SPECIFICATION 522 AND CORRESPONDING STANDARDS.
2. PROVIDE BROOM FINISH.
3. COMPACT FILL AREAS TO MINIMUM 95% MOD. PROCTOR, T-180. REMOVE ORGANIC MATTER WITHIN FOOTPRINT OF NEW CONCRETE (TYP). IF REQUIRED MIX IS SMALL GRAVEL, CRUSHED CONCRETE OR STRUCTURAL IMPORTED FILL TO ACHIEVE MINIMUM COMPACTION REQUIREMENTS.
4. SIDEWALK SHALL HAVE CONTRACTION JOINTS SPACED EQUALLY TO THE SIDEWALK WIDTH AND HAVE EXPANSIONS JOINTS EVERY 15' MAXIMUM. CONCRETE CASTS SHALL BEGIN AND END AT EXPANSIONS JOINTS. ALL EDGES SHALL BE TOOLED TO 1/4" RADIUS, UNLESS OTHERWISE NOTED. SEE SITE PLAN FOR JOINT LAYOUT. REMOVE ANY ZIP STRIP/VOID CAPS PRIOR TO SUBSTANTIAL COMPLETION (TYP).
5. CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH OF 4000 PSI IN 28 DAYS. CONCRETE SLAB TO BE REINFORCED WITH STEEL FIBER MESH. REBAR SHALL NOT COME WITHIN 2" OF THE EDGE OF CONCRETE.
6. SIDEWALKS SHALL HAVE A MAXIMUM RUNNING SLOPE OF 1:20 (5%) AND A MAXIMUM CROSS SLOPE OF 1:48 (2%) PER 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN SECTION 403.3
7. CURB RAMPS SHALL BE CONSTRUCTED IN CONFORMANCE WITH ADA STANDARDS FOR ACCESSIBLE DESIGN SECTION 406 AND 2010 FDOT STANDARD INDEX 304.
8. CONTRACTOR SHALL REPLACE ANY PAVEMENT THAT DEVELOPES UNCONTROLLED CRACKS.



8 TYPICAL CONCRETE FURNISHING PAD (4" THICK)

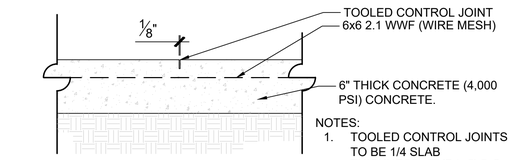
3/4" = 1'-0" P-HU-03

NOTE: POURED IN PLACE SURFACING SHOWN IN THIS DETAIL IS FOR REFERENCE ONLY. POURED IN PLACE SURFACING SHALL BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS. PROVIDE SHOP DRAWINGS FOR LANDSCAPE ARCHITECT'S APPROVAL.



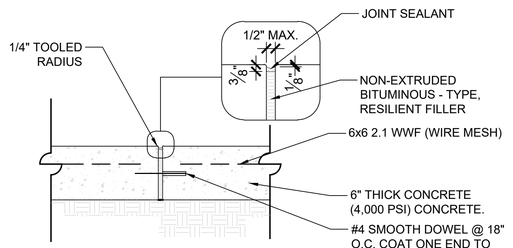
5 6" FLUSH CURB ADJACENT TO 2-5 YR PLAY AREA

3/4" = 1'-0" P-HU-HAR-120



TOOLED CONTROL JOINT

NOTES:
1. TOOLED CONTROL JOINTS TO BE 1/4 SLAB THICKNESS, (TYP.). 5' O.C. TYP.

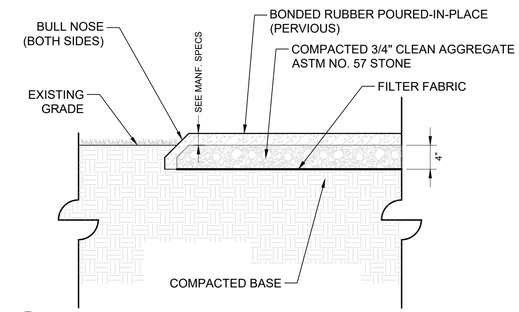


EXPANSION JOINT

2 CONCRETE PAVING JOINTS (6" THICK WITH WWF)

1 1/2" = 1'-0" H-116

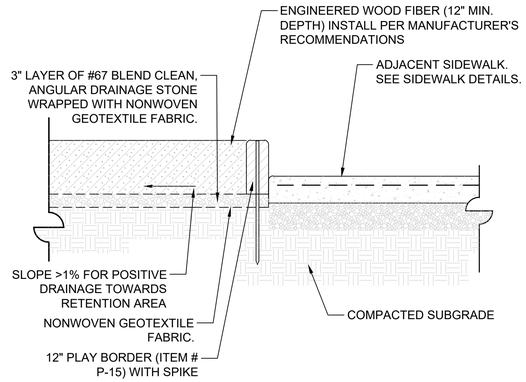
NOTES:
1) ALL INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
2) PROVIDE A CROSS SLOPE OF 2% MAX. SEE GRADING PLANS.
3) DO NOT EXCAVATE INTO EXISTING TREE ROOTS. AIR SPADE WITHIN TREE PROTECTION ZONE TO INSTALL COMPACTED GRAVEL BELOW EXISTING GRADE AND PROVIDE AIR SPADE REPORT PRIOR TO PLACING AGGREGATE.
4) FILTER FABRIC MUST HAVE PERMEABILITY GREATER THAN THE SOIL BELOW.
5) SUBMIT SAMPLES OF PRODUCT PRIOR TO CONSTRUCTION FOR APPROVAL BY LANDSCAPE ARCHITECT.



6 RUBBER TRAIL (FLEXIPAVE OR APPROVED EQUAL)

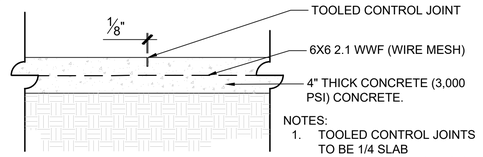
1" = 1'-0" P-HU-HAR-145

NOTE: MAINTAIN MANUFACTURE'S RECOMMENDED EWF DEPTH WITHIN THE USE ZONE OF ALL CLIMBING EQUIPMENT (TYP.). EWF SHALL CONFORM TO ASTM F1951, ASTM F1292 AND ASTM F2075. CONTRACTOR SHALL PROVIDE IPEMA CERTIFICATION FROM MANUFACTURER.



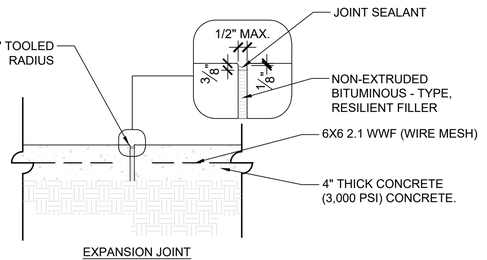
3 PLAY BORDER AT SIDEWALK

3/4" = 1'-0" P-HU-HAR-122



TOOLED CONTROL JOINT

NOTES:
1. TOOLED CONTROL JOINTS TO BE 1/4 SLAB THICKNESS, (TYP.). 5' O.C. TYP.

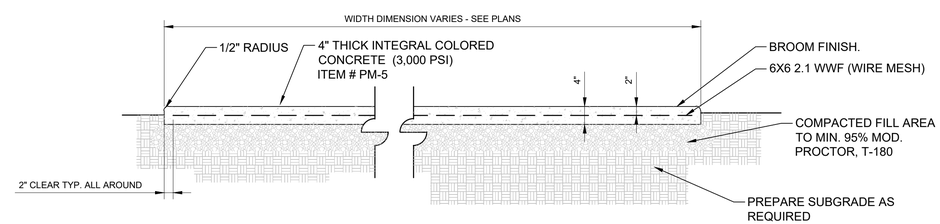


EXPANSION JOINT

7 CONCRETE PAVING JOINTS (4" THICK CONC. PAD)

1 1/2" = 1'-0" P-HU-HAR-132

NOTES:
1. SIDEWALK SHALL BE CONSTRUCTED IN CONFORMANCE WITH FDOT STANDARD INDEX 310 AND STANDARD SPECIFICATION 522 AND CORRESPONDING STANDARDS.
2. PROVIDE BROOM FINISH.
3. COMPACT FILL AREAS TO MINIMUM 95% MOD. PROCTOR, T-180. REMOVE ORGANIC MATTER WITHIN FOOTPRINT OF NEW CONCRETE (TYP). IF REQUIRED MIX IS SMALL GRAVEL, CRUSHED CONCRETE OR STRUCTURAL IMPORTED FILL TO ACHIEVE MINIMUM COMPACTION REQUIREMENTS.
4. SIDEWALK SHALL HAVE CONTRACTION JOINTS SPACED EQUALLY TO THE SIDEWALK WIDTH AND HAVE EXPANSIONS JOINTS EVERY 15' MAXIMUM. CONCRETE CASTS SHALL BEGIN AND END AT EXPANSIONS JOINTS. ALL EDGES SHALL BE TOOLED TO 1/4" RADIUS, UNLESS OTHERWISE NOTED. SEE SITE PLAN FOR JOINT LAYOUT. REMOVE ANY ZIP STRIP/VOID CAPS PRIOR TO SUBSTANTIAL COMPLETION (TYP).
5. CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH OF 4000 PSI IN 28 DAYS. CONCRETE SLAB TO BE REINFORCED WITH STEEL FIBER MESH. REBAR SHALL NOT COME WITHIN 2" OF THE EDGE OF CONCRETE.
6. SIDEWALKS SHALL HAVE A MAXIMUM RUNNING SLOPE OF 1:20 (5%) AND A MAXIMUM CROSS SLOPE OF 1:48 (2%) PER 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN SECTION 403.3
7. CURB RAMPS SHALL BE CONSTRUCTED IN CONFORMANCE WITH ADA STANDARDS FOR ACCESSIBLE DESIGN SECTION 406 AND 2010 FDOT STANDARD INDEX 304.
8. EXPANSION JOINTS FOR COLORED CONTRETE SHALL INCLUDE LITHOCROME CAULK THAT MATCHES COLORED CONCRETE.
8. CONTRACTOR SHALL REPLACE ANY PAVEMENT THAT DEVELOPES UNCONTROLLED CRACKS.



9 TYPICAL CONCRETE FURNISHING PAD WITH INTEGRAL COLORED CONCRETE (4" THICK)

3/4" = 1'-0" P-HU-HAR-143

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Prepared For:

City of Tampa
306 East Jackson Street
Tampa, Florida 33602

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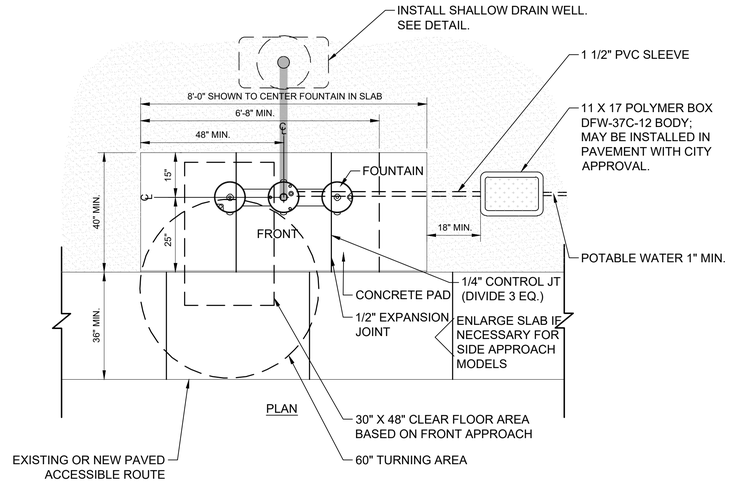
Date:	**MAY 15, 2026**
Job No.:	**8702**
Drawn By:	**GLA**
Checked By:	**CJA**

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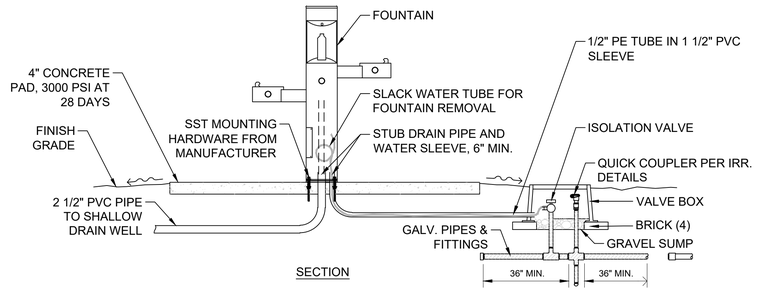
HARDSCAPE DETAILS

Sheet No.

HP503



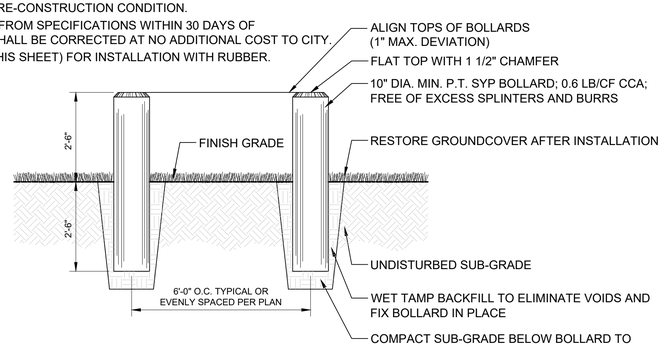
NOTES:
1. INSTALL FOUNTAIN PER MANUFACTURER INSTRUCTIONS: MOST DEPENDABLE FOUNTAINS 10145 SMSS FA
2. PLUMBING PER FBC (LATEST EDITION); NO PUSH ON CONNECTIONS.
3. PAVEMENT SHALL NOT EXCEED 2% SLOPE IN ANY DIRECTION INCLUDING EXISTING PAVEMENT ADJACENT TO FOUNTAIN PAD.
4. CONCRETE AND BASE PREPARATION SHALL BE PER FDOT SPEC 522 AND 346; BROOM FINISH PERPENDICULAR TO ADJACENT WALKWAY.



1 DRINKING FOUNTAIN WITH BOTTLE FILLER (MODEL 10145-SMSS-FA)

N.T.S. P-HU-HAR-126

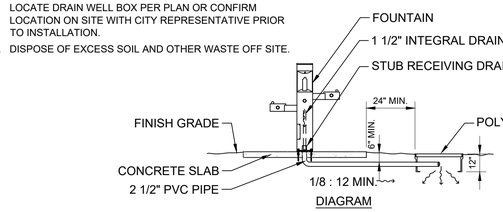
NOTES:
1. SET BOLLARDS PLUMB WITH A MAXIMUM DEVIATION OF 3/4".
2. INSTALL TAPERED BOLLARDS WITH THE LARGER END IN THE GROUND.
3. BOLLARDS SHALL RESIST ROCKING BY HAND.
4. LAYOUT BOLLARDS PER PLAN WITH A CONSISTENT CENTERLINE ALONG STRAIGHT LINES AND CONTINUOUS CURVES.
5. RESTORE DISTURBED / DAMAGED GROUND SURFACE AND ANY OTHER FACILITIES TO PRE-CONSTRUCTION CONDITION.
6. ANY DEVIATION FROM SPECIFICATIONS WITHIN 30 DAYS OF INSTALLATION SHALL BE CORRECTED AT NO ADDITIONAL COST TO CITY.
7. SEE DETAIL 7 (THIS SHEET) FOR INSTALLATION WITH RUBBER.

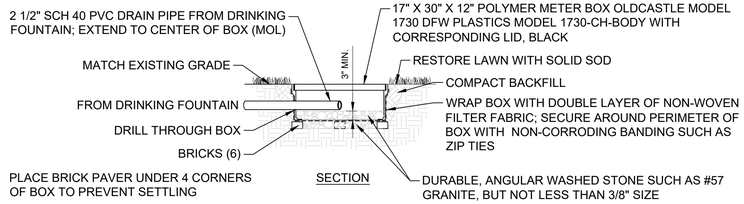


4 WOOD BOLLARDS

N.T.S. P-HU-HAR-129

NOTES:
1. LOCATE DRAIN WELL BOX PER PLAN OR CONFIRM LOCATION ON SITE WITH CITY REPRESENTATIVE PRIOR TO INSTALLATION.
2. DISPOSE OF EXCESS SOIL AND OTHER WASTE OFF SITE.

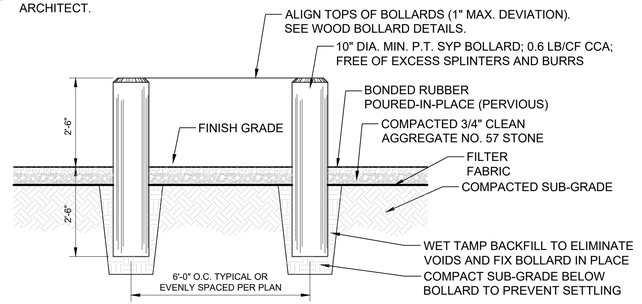




2 SHALLOW DRAIN WELL

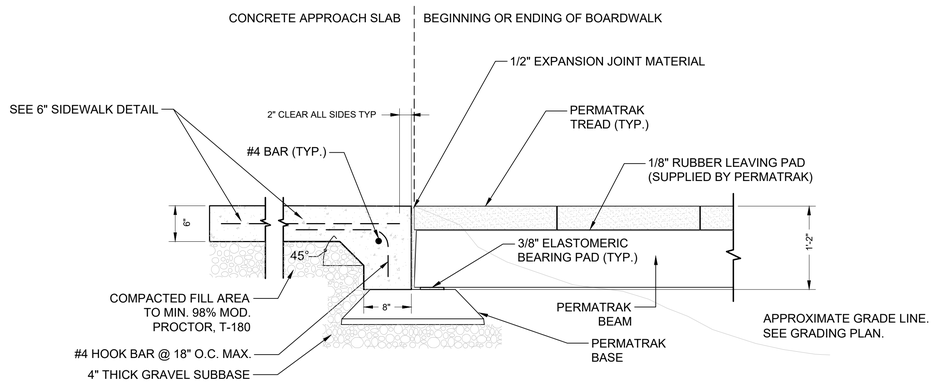
N.T.S. P-HU-HAR-127

NOTES:
1) SEE WOOD BOLLARD DETAIL NOTES FOR ADDITIONAL REQUIREMENTS AND INSTALLATION INSTRUCTIONS.
2) ALL RUBBER SURFACING INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
3) PROVIDE A CROSS SLOPE OF 2% MAX. SEE GRADING PLANS.
4) DO NOT EXCAVATE INTO EXISTING TREE ROOTS. AIR SPADE WITHIN TREE PROTECTION ZONE TO INSTALL COMPACTED GRAVEL BELOW EXISTING GRADE AND PROVIDE AIR SPADE REPORT PRIOR TO PLACING AGGREGATE.
5) FILTER FABRIC MUST HAVE PERMEABILITY GREATER THAN THE SOIL BELOW.
6) SUBMIT SAMPLES OF PRODUCT PRIOR TO CONSTRUCTION FOR APPROVAL BY LANDSCAPE ARCHITECT.



7 WOOD BOLLARDS WITH BONDED RUBBER IN RIGHT-OF-WAY

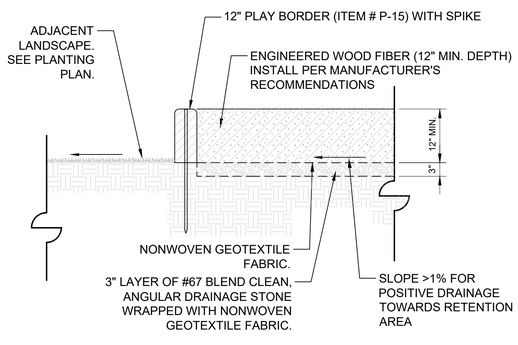
N.T.S. P-HU-HAR-146



3 TYPICAL BOARDWALK APPROACH DETAIL

1" = 1'-0" P-HU-HAR-125

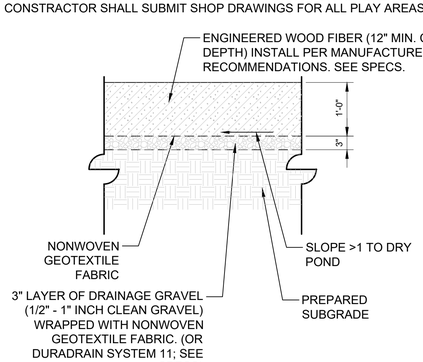
NOTE: MAINTAIN MANUFACTURE'S RECOMMENDED EWF DEPTH WITHIN THE USE ZONE OF ALL CLIMBING EQUIPMENT (TYP.). EWF SHALL CONFORM TO ASTM F1951, ASTM F1292 AND ASTM F2075. CONTRACTOR SHALL PROVIDE IPEMA CERTIFICATION FROM MANUFACTURER.



5 PLAYGROUND BORDER WITH SPIKE AND EWF

3/4" = 1'-0" P-HU-HAR-121

NOTE: MAINTAIN MANUFACTURE'S RECOMMENDED EWF DEPTH WITHIN THE USE ZONE OF ALL CLIMBING EQUIPMENT (TYP.). EWF SHALL CONFORM TO ASTM F1951, ASTM F1292 AND ASTM F2075. CONTRACTOR SHALL PROVIDE IPEMA CERTIFICATION FROM MANUFACTURER. DRAWING FOR REFERENCE ONLY. CONSTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ALL PLAY AREAS.



6 SWING PLAY AREA SURFACING

3/4" = 1'-0" P-HU-HAR-124

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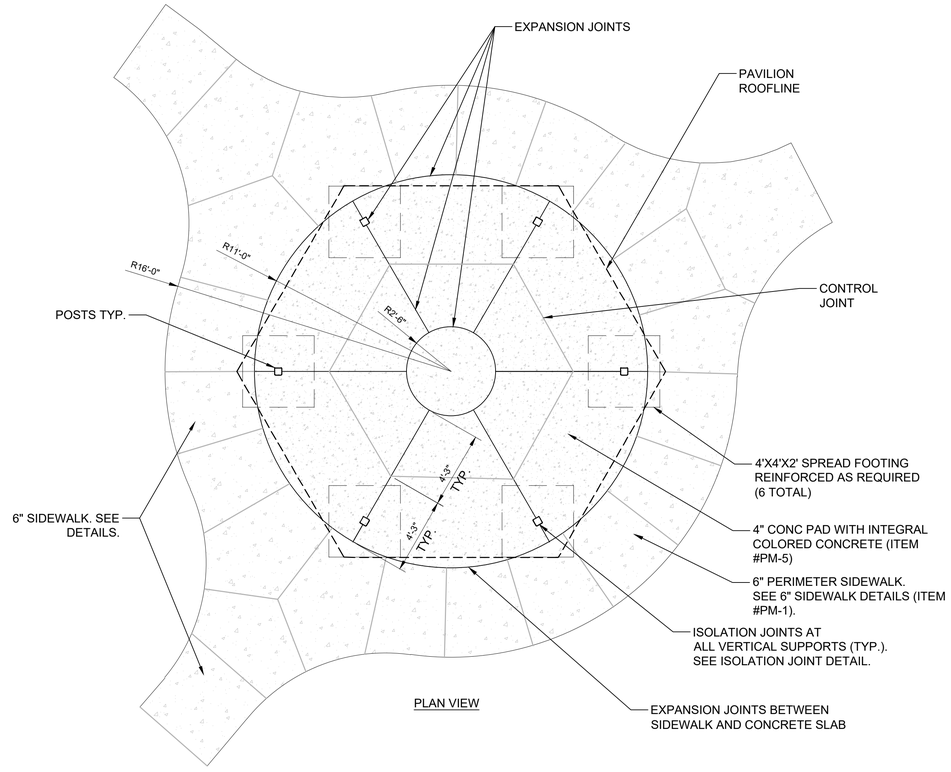
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HARDSCAPE DETAILS

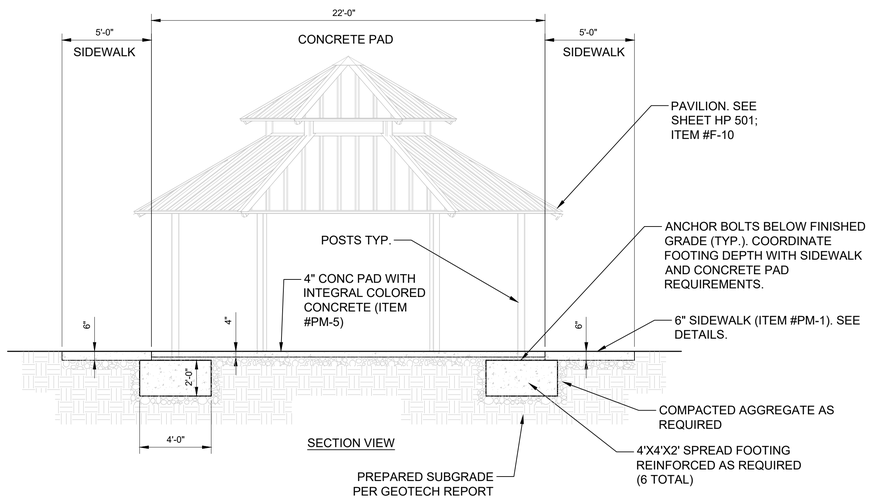
Sheet No.

HP504

NOTES:
1. THIS DRAWING SHOWS DESIGN INTENT AND NOT FOR CONSTRUCTION. SHOP DRAWINGS WITH FINISH SAMPLES REQUIRED FOR APPROVAL BY LANDSCAPE ARCHITECT PRIOR TO FABRICATION / INSTALLATION AT TIME OF FINAL DESIGN AND ENGINEERING.
2. ALL STRUCTURAL SHALL BE BY A STRUCTURAL ENGINEER. SUBMIT STRUCTURAL SHOP DRAWINGS FOR REVIEW BY LANDSCAPE ARCHITECT.
3. CONTRACTOR SHALL SUBMIT TRADE PERMIT AND OBTAIN APPROVAL FROM THE CITY OF TAMPA PRIOR TO CONSTRUCTION AND INSTALLATION. CONTRACTOR TO PROVIDE PERMIT LEVEL DRAWINGS FOR 100% CONSTRUCTION DOCUMENTS SHOWING STRUCTURAL DETAILING. FOR BIDDING, CONTRACTOR SHALL ASSUME 4'X4'X2' SPREAD FOUNDATIONS AND SOIL PREPARATION PER THE GEOTECHNICAL REPORT.
4. CONTRACTOR SHALL COORDINATE SPREAD FOOTING INSTALLATION WITH SIDEWALK AND CONCRETE PAD INSTALLATION.
5. SEE GRADING PLAN AND DRAINAGE AND SLOPE.



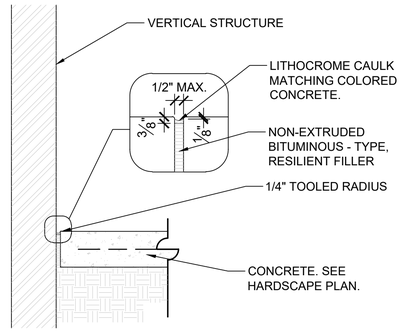
PLAN VIEW



SECTION VIEW

1 6" SIDEWALK AND 4" CONCRETE PAD AT PAVILION

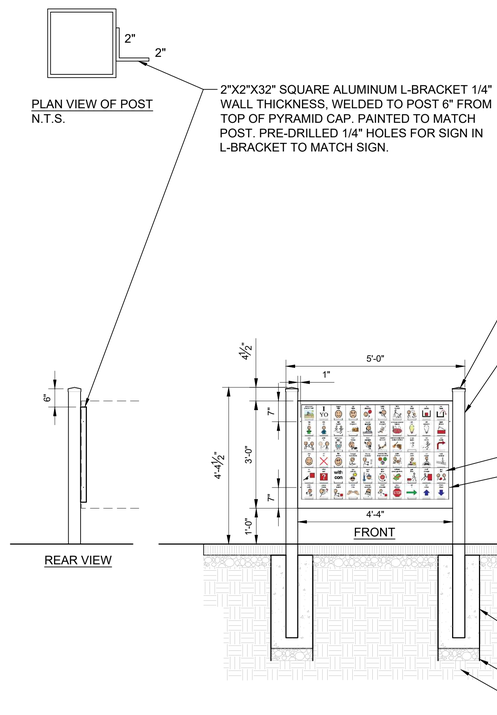
1/4" = 1'-0" P-HU-HAR-131



2 ISOLATION JOINT

1 1/2" = 1'-0" P-HU-HAR-133

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2. CONTRACTOR SHALL SUBMIT TRADE PERMIT AND OBTAIN APPROVAL FROM THE CITY OF TAMPA PRIOR TO CONSTRUCTION AND INSTALLATION. CONTRACTOR TO PROVIDE PERMIT LEVEL DRAWINGS FOR 100% CONSTRUCTION DOCUMENTS SHOWING STRUCTURAL DETAILING.
3. CITY'S PARK AND RECREATION DEPARTMENT WILL PROVIDE A DIGITAL GRAPHIC OF THE COMMUNICATE BOARD FOR USE IN THE SHOP UPON REQUEST.



3 COMMUNICATION BOARD

1/2" = 1'-0" P-HU-HAR-144

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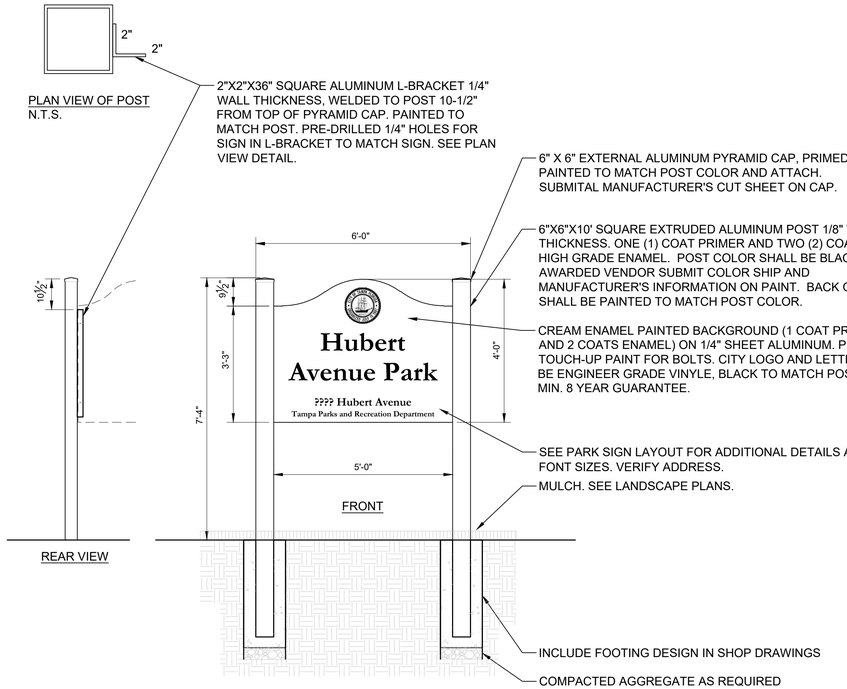
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HARDSCAPE DETAILS

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2. CONTRACTOR SHALL SUBMIT TRADE PERMIT AND OBTAIN APPROVAL FROM THE CITY OF TAMPA PRIOR TO CONSTRUCTION AND INSTALLATION. CONTRACTOR TO PROVIDE PERMIT LEVEL DRAWINGS FOR 100% CONSTRUCTION DOCUMENTS SHOWING STRUCTURAL DETAILING.



1 HUBERT AVENUE PARK SIGN (STANDARD)

1/2" = 1'-0" P-HU-HAR-136

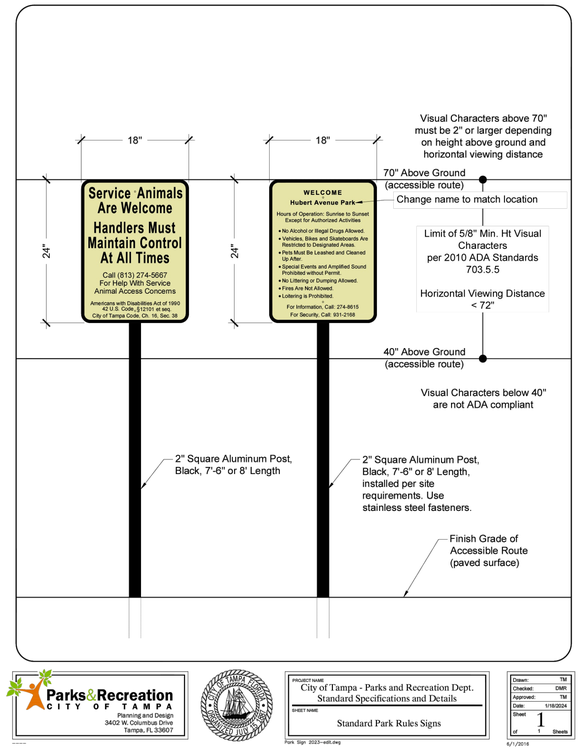
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SIGNAGE FONTS:
CITY SEAL SHALL BE 12" ACROSS AND SET 3" FRONT STOP OF CURVE. "HUBERT AVENUE PARK" SHALL BE GARAMOND BOLD AND 6" HIGH. "TAMPA PARKS AND RECREATION DEPARTMENT" SHALL BE GARAMOND AND 1-3/4" HIGH. ADDRESS SHALL BE 2-1/2" HIGH.



2 PARK SIGNAGE LAYOUT (STANDARD)

1/2" = 1'-0" P-HU-HAR-137



3 STANDARD PARK RULES SIGNS

1/2" = 1'-0" P-HU-HAR-130

Parks&Recreation CITY OF TAMPA
Planning and Design
3402 W. Columbus Drive
Tampa, FL 33607

PROJECT NAME: City of Tampa - Parks and Recreation Dept. Standard Specifications and Details
SHEET NAME: Standard Park Rules Signs
Park Sign 2023-edit.dwg

Drawn:	TM
Checked:	DMR
Approved:	TM
Date:	1/19/2024
Sheet	1
of	1 Sheets

6/1/2018

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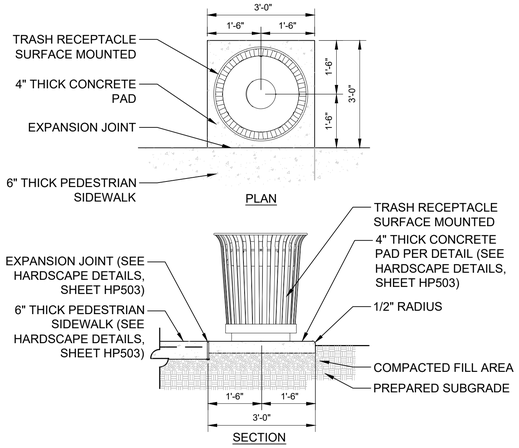
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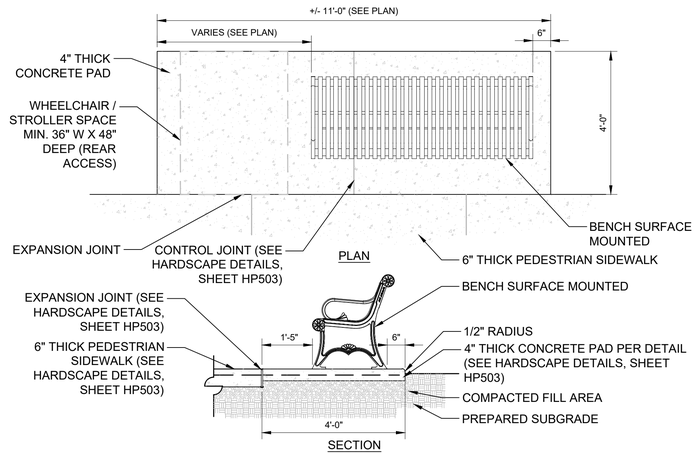
Sheet No.

HP506



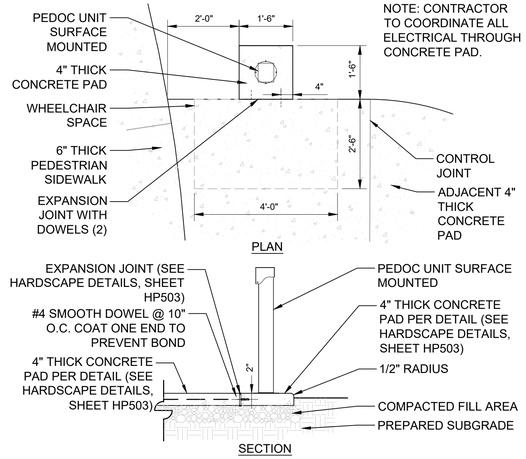
1 TRASH RECEPTACLE WITH CONCRETE PAD

1/2" = 1'-0" P-HU-HAR-139



2 BENCH WITH CONCRETE PAD

1/2" = 1'-0" P-HU-HAR-138



3 PEDOC CHARGING UNIT WITH CONCRETE PAD

1/2" = 1'-0" P-HU-HAR-142

4 BIKE RACK WITH CONCRETE PAD

1/2" = 1'-0" P-HU-HAR-140

5 ROUND METAL PICNIC TABLE WITH CONCRETE PAD

1/2" = 1'-0" P-HU-HAR-141

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Prepared For:

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Hubert Avenue Park & Right-Of-Way Improvements

4106, 4108, & 4110 N. Hubert Ave + 4115 N. Manhattan
Tampa, Florida

Seal

BID SET

REV	DATE	DESCRIPTION
5		
4		
3		
2		
1		

Date:	**MAY 15, 2026**
Job No.:	**8702**
Drawn By:	**GLA**
Checked By:	**CJA**

Sheet Title

HARDSCAPE DETAILS

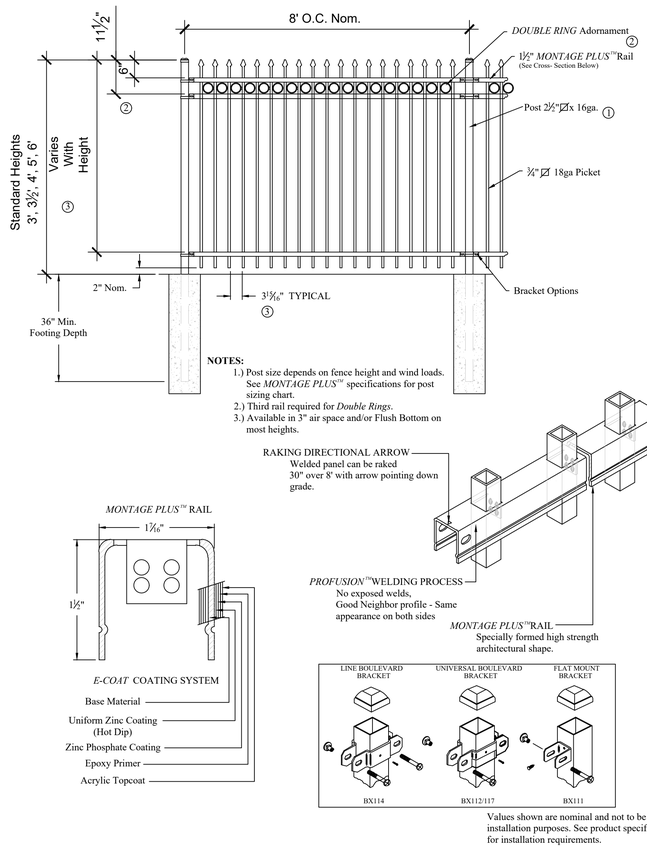
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NOTES:
1. SHOP DRAWINGS WITH FINISH SAMPLES REQUIRED FOR APPROVAL BY LANDSCAPE ARCHITECT PRIOR TO FABRICATION / INSTALLATION AT TIME OF FINAL DESIGN AND ENGINEERING.
2. SUBMIT STYLES OF GATE HARDWARE FOR OWNER APPROVAL. THIS COULD CHANGE THE LATCH & HINGE CLEARANCE.
3. GATES SHALL SWING 180 DEGREES.

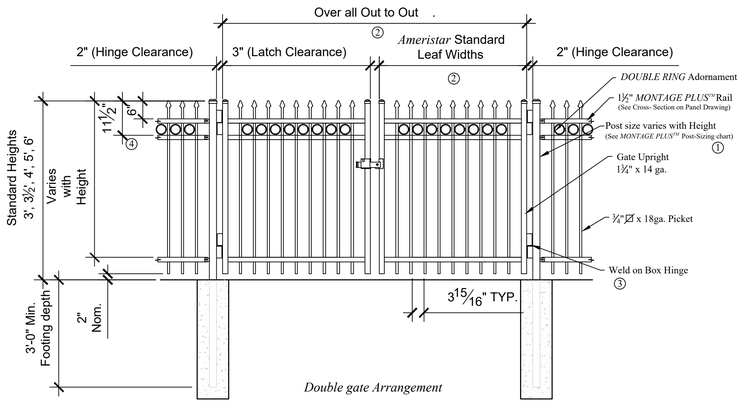


1 TREE RAIL CLASSIC METAL PICKET GATE

1/2" = 1'-0"

P-HU-HAR-147

NOTES:
1. SHOP DRAWINGS WITH FINISH SAMPLES REQUIRED FOR APPROVAL BY LANDSCAPE ARCHITECT PRIOR TO FABRICATION / INSTALLATION AT TIME OF FINAL DESIGN AND ENGINEERING.
2. POST SIZE DEPENDS ON FENCE HEIGHT, WEIGHT AND WIND LOADS. SEE *MONTAGE PLUS* SPECIFICATIONS FOR POST SIZING CHART.
3. SEE *AMERISTAR* GATE TABLE FOR STANDARD OUT TO OUTS. CUSTOM GATE OPENINGS AVAILABLE FOR SPECIAL OUT TO OUT/LEAF WIDTHS.
4. SUBMIT STYLES OF GATE HARDWARE FOR OWNER APPROVAL. THIS COULD CHANGE THE LATCH & HINGE CLEARANCE.
5. GATES SHALL SWING 180 DEGREES.

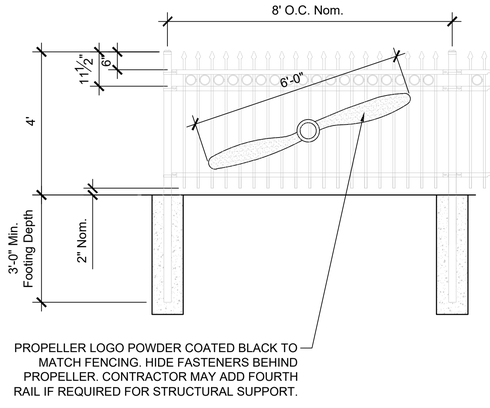


2 THREE RAIL CLASSIC DOUBLE METAL PICKET GATE

1/2" = 1'-0"

P-HU-HAR-148

NOTES:
1. THIS DRAWING SHOWS DESIGN INTENT AND NOT FOR CONSTRUCTION. SHOP DRAWINGS WITH FINISH SAMPLES REQUIRED FOR APPROVAL BY LANDSCAPE ARCHITECT PRIOR TO FABRICATION / INSTALLATION AT TIME OF FINAL DESIGN AND ENGINEERING. SUBMIT FOOTER DESIGN, PROPELLER LOGO DETAILS WITH SHOP DRAWINGS.
2. METAL PROPELLER SHALL BE POWDER COATED BLACK TO MATCH FENCING AND FASTENED TO FENCING. COORDINATE ALL MODIFICATIONS REQUIRED TO FENCING TO SUPPORT THE PROPELLER LOGO. INCLUDE FASTENING DETAIL IN SHOP DRAWINGS.
3. HIDE FASTENERS BEHIND PROPELLER.



3 DREW PARK PROPELLER LOGO FENCE PANEL

1/2" = 1'-0"

P-HU-HAR-149

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Prepared For:

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Hubert Avenue Park & Right-Of-Way Improvements

4106, 4108, & 4110 N. Hubert Ave + 4115 N. Manhattan Ave
Tampa, Florida

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BID SET

REV	DATE	DESCRIPTION
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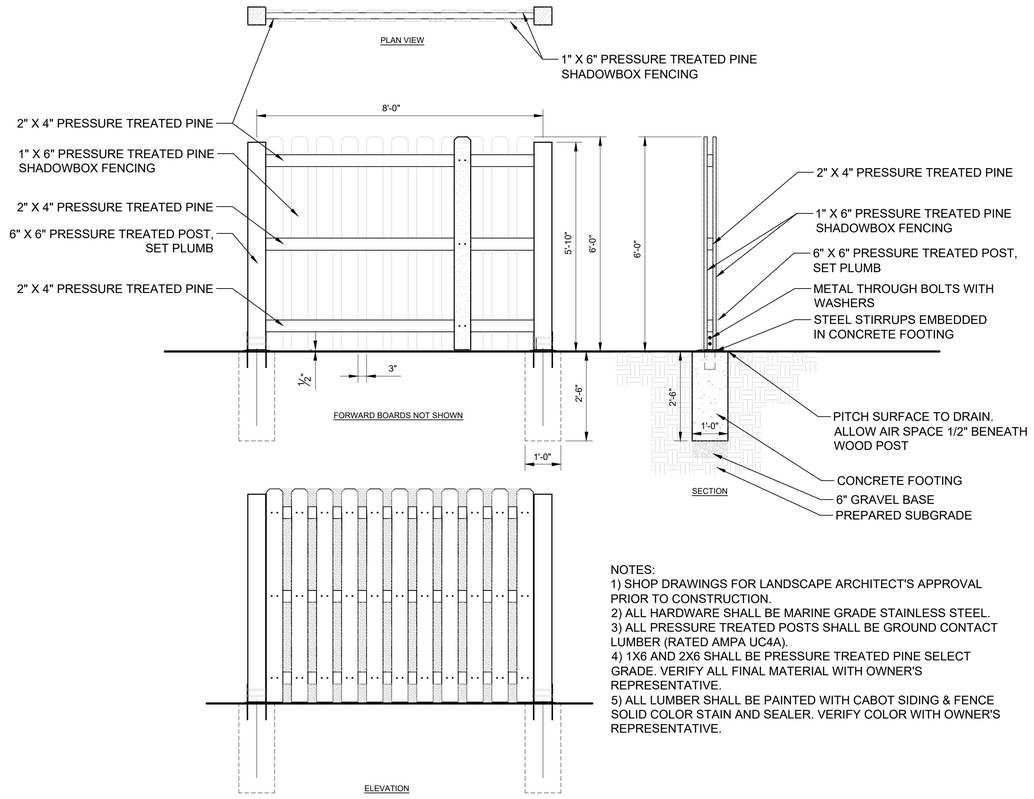
Date: MAY 15, 2026
Job No.: 8702
Drawn By: GLA
Checked By: CJA

Sheet Title

HARDSCAPE DETAILS

Sheet No.

HP508



NOTES:
1) SHOP DRAWINGS FOR LANDSCAPE ARCHITECT'S APPROVAL PRIOR TO CONSTRUCTION.
2) ALL HARDWARE SHALL BE MARINE GRADE STAINLESS STEEL.
3) ALL PRESSURE TREATED POSTS SHALL BE GROUND CONTACT LUMBER (RATED AMPA UC4A).
4) 1X6 AND 2X6 SHALL BE PRESSURE TREATED PINE SELECT GRADE. VERIFY ALL FINAL MATERIAL WITH OWNER'S REPRESENTATIVE.
5) ALL LUMBER SHALL BE PAINTED WITH CABOT SIDING & FENCE SOLID COLOR STAIN AND SEALER. VERIFY COLOR WITH OWNER'S REPRESENTATIVE.

1 6' HIGH WOOD SHADOWBOX FENCING

1/2" = 1'-0"

P-HU-HAR-150

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4106, 4108, & 4110 N. Hubert Ave + 4115 N. Manhattan
Tampa, Florida

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REV	DATE	DESCRIPTION
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Date:	**MAY 15, 2026**
Job No.:	**8702**
Drawn By:	**GLA**
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Sheet Title

HARDSCAPE DETAILS

Sheet No.

HP509

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PLAY COMPONENTS SCHEDULE

ITEM #	QUANTITY	ITEM	DESCRIPTION / SPECIFICATION	MANUFACTURER	COLOR	COMMENTS	MEP COORDINATION	FOUNDATION ESTIMATES*
P-1	1	PLAY EQUIPMENT (2-5 YEAR OLDS)	BREEZE PLAY EQUIPMENT (2-5 YEAR OLDS) WITH CUSTOM PERFORATED METAL BALLOON ROOF. MODEL #CP041604 SP BREEZE STRUCTURE W/ STEEL BALLOON ROOF, DB	LANDSCAPE STRUCTURES; SALES REPRESENTATIVE: REP SERVICES, INC., CONTACT: SCOTT BRUSHWOOD, PH: (813) 294-7325, EMAIL: SBRUSHWOOD@REPSERVICES.COM	TBD	CONTRACTOR PERMITTED AND INSTALLED PER MANUFACTURER'S INSTRUCTIONS. PROVIDE SHOP DRAWINGS FOR APPROVAL.		DIRECT BURIAL WITH CONCRETE FOOTINGS AND CRUSHED ROCK BASE. SEE DETAIL ??
P-2	1	PLAY EQUIPMENT (5-12 YEAR OLDS)	BILLOWS PLAY EQUIPMENT (5-12 YEAR OLDS) MODEL # 331174, PROVIDE CUSTOM CLOUD COLOR (NOT WHITE)	LANDSCAPE STRUCTURES; SALES REPRESENTATIVE: REP SERVICES, INC., CONTACT: SCOTT BRUSHWOOD, PH: (813) 294-7325, EMAIL: SBRUSHWOOD@REPSERVICES.COM	TBD	CONTRACTOR PERMITTED AND INSTALLED PER MANUFACTURER'S INSTRUCTIONS. PROVIDE SHOP DRAWINGS FOR APPROVAL.		DIRECT BURIAL WITH CONCRETE FOOTINGS AND CRUSHED ROCK BASE. SEE DETAIL ??
P-3	1	PLAY DOME	COZY DOME; MODEL NUMBER #168099	LANDSCAPE STRUCTURES; SALES REPRESENTATIVE: REP SERVICES, INC., CONTACT: SCOTT BRUSHWOOD, PH: (813) 294-7325, EMAIL: SBRUSHWOOD@REPSERVICES.COM	TBD	CONTRACTOR PERMITTED AND INSTALLED PER MANUFACTURER'S INSTRUCTIONS. PROVIDE SHOP DRAWINGS FOR APPROVAL.		DIRECT BURIAL WITH CONCRETE FOOTINGS AND CRUSHED ROCK BASE QTY= 6 TOTAL FOOTINGS SIZE= 12" WIDE AND 20" MIN. DEPTH
P-4	1	WE-SAW	WE-SAW; MODEL #186490	LANDSCAPE STRUCTURES; SALES REPRESENTATIVE: REP SERVICES, INC., CONTACT: SCOTT BRUSHWOOD, PH: (813) 294-7325, EMAIL: SBRUSHWOOD@REPSERVICES.COM	TBD	CONTRACTOR PERMITTED AND INSTALLED PER MANUFACTURER'S INSTRUCTIONS. PROVIDE SHOP DRAWINGS FOR APPROVAL.		DIRECT BURIAL WITH CONCRETE FOOTINGS AND CRUSHED ROCK BASE QTY= 5 TOTAL FOOTINGS SIZE= (4) 12" WIDE AND 20" MIN. DEPTH; (1) 36" WIDE AND 24" DEPTH
P-5	1	WE-GO-ROUND	WE-GO-ROUND; MODEL #251037	LANDSCAPE STRUCTURES; SALES REPRESENTATIVE: REP SERVICES, INC., CONTACT: SCOTT BRUSHWOOD, PH: (813) 294-7325, EMAIL: SBRUSHWOOD@REPSERVICES.COM	TBD	CONTRACTOR PERMITTED AND INSTALLED PER MANUFACTURER'S INSTRUCTIONS. PROVIDE SHOP DRAWINGS FOR APPROVAL.		DIRECT BURIAL WITH CONCRETE FOOTINGS AND CRUSHED ROCK BASE QTY= 1 TOTAL FOOTING SIZE= 48" WIDE AND 42" MIN. DEPTH
P-6	1	PLAY AREA WELCOME SIGN (2-5 YR)	WELCOME SIGN (MODEL #182503), PROVIDE ONE FOR EACH PLAY AREA.	LANDSCAPE STRUCTURES; SALES REPRESENTATIVE: REP SERVICES, INC., CONTACT: SCOTT BRUSHWOOD, PH: (813) 294-7325, EMAIL: SBRUSHWOOD@REPSERVICES.COM	TBD	CONTRACTOR PERMITTED AND INSTALLED PER MANUFACTURER'S INSTRUCTIONS. PROVIDE SHOP DRAWINGS FOR APPROVAL.		DIRECT BURIAL WITH CONCRETE FOOTINGS AND CRUSHED ROCK BASE QTY= 1 TOTAL FOOTING SIZE= 12" WIDE AND 20" MIN. DEPTH
P-7	1	PLAYGROUND GRANDIOSO CHIMES	RHAPSODY GRANDIOSO CHIMES; MODEL #214442	LANDSCAPE STRUCTURES; SALES REPRESENTATIVE: REP SERVICES, INC., CONTACT: SCOTT BRUSHWOOD, PH: (813) 294-7325, EMAIL: SBRUSHWOOD@REPSERVICES.COM	TBD	CONTRACTOR PERMITTED AND INSTALLED PER MANUFACTURER'S INSTRUCTIONS. PROVIDE SHOP DRAWINGS FOR APPROVAL. CONFIRM CORD LENGTH FOR CHIME HAMMER WITH LANDSCAPE ARCHITECT.		DIRECT BURIAL WITH CONCRETE FOOTINGS AND CRUSHED ROCK BASE QTY= 7 TOTAL FOOTINGS SIZE= 14" WIDE AND 20" MIN. DEPTH
P-8	1	PLAYGROUND TONGUE DRUM	RHAPSODY TONGUE DRUM; MODEL #253114	LANDSCAPE STRUCTURES; SALES REPRESENTATIVE: REP SERVICES, INC., CONTACT: SCOTT BRUSHWOOD, PH: (813) 294-7325, EMAIL: SBRUSHWOOD@REPSERVICES.COM	TBD	CONTRACTOR PERMITTED AND INSTALLED PER MANUFACTURER'S INSTRUCTIONS. PROVIDE SHOP DRAWINGS FOR APPROVAL.		DIRECT BURIAL WITH CONCRETE FOOTINGS AND CRUSHED ROCK BASE QTY= 1 TOTAL FOOTING SIZE= 24" WIDE AND 20" MIN. DEPTH
P-9	1	PLAYGROUND KUNDU DRUM	RHAPSODY KUNDU DRUM; MODEL #214444	LANDSCAPE STRUCTURES; SALES REPRESENTATIVE: REP SERVICES, INC., CONTACT: SCOTT BRUSHWOOD, PH: (813) 294-7325, EMAIL: SBRUSHWOOD@REPSERVICES.COM	TBD	CONTRACTOR PERMITTED AND INSTALLED PER MANUFACTURER'S INSTRUCTIONS. PROVIDE SHOP DRAWINGS FOR APPROVAL.		DIRECT BURIAL WITH CONCRETE FOOTINGS AND CRUSHED ROCK BASE QTY= 1 TOTAL FOOTING SIZE= 14" WIDE AND 20" MIN. DEPTH
P-10	1	PLAYGROUND KETTLE DRUM	RHAPSODY KETTLE DRUM; MODEL #214445	LANDSCAPE STRUCTURES; SALES REPRESENTATIVE: REP SERVICES, INC., CONTACT: SCOTT BRUSHWOOD, PH: (813) 294-7325, EMAIL: SBRUSHWOOD@REPSERVICES.COM	TBD	CONTRACTOR PERMITTED AND INSTALLED PER MANUFACTURER'S INSTRUCTIONS. PROVIDE SHOP DRAWINGS FOR APPROVAL.		DIRECT BURIAL WITH CONCRETE FOOTINGS AND CRUSHED ROCK BASE QTY= 1 TOTAL FOOTING SIZE= 14" WIDE AND 20" MIN. DEPTH
P-11	1	PLAYGROUND GOBLET DRUM	RHAPSODY GOBLET DRUM; MODEL #214443	LANDSCAPE STRUCTURES; SALES REPRESENTATIVE: REP SERVICES, INC., CONTACT: SCOTT BRUSHWOOD, PH: (813) 294-7325, EMAIL: SBRUSHWOOD@REPSERVICES.COM	TBD	CONTRACTOR PERMITTED AND INSTALLED PER MANUFACTURER'S INSTRUCTIONS. PROVIDE SHOP DRAWINGS FOR APPROVAL.		DIRECT BURIAL WITH CONCRETE FOOTINGS AND CRUSHED ROCK BASE QTY= 1 TOTAL FOOTING SIZE= 14" WIDE AND 20" MIN. DEPTH
P-12	1 SET WITH 6 SWINGS	SWING SET (6 SWINGS)	(1) SINGLE POST SWINGS (MODEL# 177332) WITH TWO ADDITIONAL BAYS (MODEL# 177333); (2) BELT SEATS W/ PROGUARD CHAINS (MODEL# 174018), (1) MOLDED BUCKET SEAT W/ PROGUARD CHAINS (MODEL# 177350), (1) MOLDED BUCKET SEAT W/ PROGUARD CHAINS (MODEL# 177351), AND (2) INFANT BUCKET SEATS W/ PROGUARD CHAINS (MODEL# 176038); 8' BEAM HEIGHT.	LANDSCAPE STRUCTURES; SALES REPRESENTATIVE: REP SERVICES, INC., CONTACT: SCOTT BRUSHWOOD, PH: (813) 294-7325, EMAIL: SBRUSHWOOD@REPSERVICES.COM	TBD	CONTRACTOR PERMITTED AND INSTALLED PER MANUFACTURER'S INSTRUCTIONS. PROVIDE SHOP DRAWINGS FOR APPROVAL.		DIRECT BURIAL WITH CONCRETE FOOTINGS AND CRUSHED ROCK BASE QTY= 4 TOTAL FOOTINGS SIZE= 24" WIDE AND 28" MIN. DEPTH
P-13	CONTRACTOR TO CALCULATE	POURED IN PLACE SAFETY SURFACING WITH DRAIN ROCK.	DEPTH PER FALL HEIGHT REQUIREMENT OF EQUIPMENT. INCLUDE THREE COLORS AND THE RUNWAY AND CLOUD DESIGN SHOWN IN PLANS AND PERSPECTIVE.	LANDSCAPE STRUCTURES; SALES REPRESENTATIVE: REP SERVICES, INC., CONTACT: SCOTT BRUSHWOOD, PH: (813) 294-7325, EMAIL: SBRUSHWOOD@REPSERVICES.COM	TBD. SUBMIT FOR APPROVAL.	CONTRACTOR PERMITTED AND INSTALLED PER MANUFACTURER'S INSTRUCTIONS. PROVIDE SHOP DRAWINGS FOR APPROVAL.		NOT APPLICABLE
P-14	CONTRACTOR TO CALCULATE	ENGINEERED WOOD FIBER AT SWING SET	TBD	LANDSCAPE STRUCTURES; SALES REPRESENTATIVE: REP SERVICES, INC., CONTACT: SCOTT BRUSHWOOD, PH: (813) 294-7325, EMAIL: SBRUSHWOOD@REPSERVICES.COM	TBD	CONTRACTOR PERMITTED AND INSTALLED PER MANUFACTURER'S INSTRUCTIONS. PROVIDE SHOP DRAWINGS FOR APPROVAL. EWF MUST MEET ASTM F1292 STANDARD SPECIFICATION FOR IMPACT ATTENUATION OF SURFACING MATERIALS WITHIN THE USE ZONE OF PLAYGROUND EQUIPMENT, F2075 SPECIFICATION FOR ENGINEERED WOOD FIBER FOR USE AS A PLAYGROUND SAFETY SURFACE UNDER AND AROUND PLAYGROUND EQUIPMENT AND F1951 SPECIFICATION FOR DETERMINATION OF ACCESSIBILITY OF SURFACE SYSTEMS UNDER AND AROUND PLAYGROUND EQUIPMENT. SUBMIT FOR REVIEW AND APPROVAL. INSTALL PER MANUFACTURER'S INSTALLATION INSTRUCTIONS AND SEE SPECIFICATIONS.		NOT APPLICABLE
P-15	44 TIMBERS 45 SPIKES 1 RAMP	HD POLYETHYLENE TIMBERS WITH UV STABILIZER AT SWING SET	4' X 12" X 4" TUFFTIMBERS (MODEL #110214) WITH 30" LONG GALVANIZED STEEL STAKES (MODEL #100626) TO HOLD TIMBERS IN PLACE AND TUFFTIMBERS ACCESS RAMP (MODEL #130799)	LANDSCAPE STRUCTURES; SALES REPRESENTATIVE: REP SERVICES, INC., CONTACT: SCOTT BRUSHWOOD, PH: (813) 294-7325, EMAIL: SBRUSHWOOD@REPSERVICES.COM	TBD	CONTRACTOR PERMITTED AND INSTALLED PER MANUFACTURER'S INSTRUCTIONS. PROVIDE SHOP DRAWINGS FOR APPROVAL.		DIRECT BURIAL WITH CONCRETE FOOTINGS AND CRUSHED ROCK BASE QTY= 45 TOTAL FOOTINGS SIZE= 8" WIDE AND 18" MIN. DEPTH
P-16	1	SADDLE SPINNER AT 2-5 YR AREA	12" SEAT HEIGHT SADDLE SPINNER MODEL #152179	LANDSCAPE STRUCTURES; SALES REPRESENTATIVE: REP SERVICES, INC., CONTACT: SCOTT BRUSHWOOD, PH: (813) 294-7325, EMAIL: SBRUSHWOOD@REPSERVICES.COM	TBD	CONTRACTOR PERMITTED AND INSTALLED PER MANUFACTURER'S INSTRUCTIONS. PROVIDE SHOP DRAWINGS FOR APPROVAL.		DIRECT BURIAL WITH CONCRETE FOOTINGS AND CRUSHED ROCK BASE QTY= 1 FOOTING PER ITEM SIZE= 20" WIDE AND 20" MIN. DEPTH
P-17	1	CURVA SPINNER	CURVA SPINNER MODEL #247179	LANDSCAPE STRUCTURES; SALES REPRESENTATIVE: REP SERVICES, INC., CONTACT: SCOTT BRUSHWOOD, PH: (813) 294-7325, EMAIL: SBRUSHWOOD@REPSERVICES.COM	TBD	CONTRACTOR PERMITTED AND INSTALLED PER MANUFACTURER'S INSTRUCTIONS. PROVIDE SHOP DRAWINGS FOR APPROVAL.		DIRECT BURIAL WITH CONCRETE FOOTINGS AND CRUSHED ROCK BASE QTY= 1 FOOTING PER ITEM SIZE= 24" WIDE AND 20" MIN. DEPTH
P-18	SEE DESCRIPTION	FACET BALANCE BEAM AND FACET STEPPERS AT 2-5 PLAY AREA	FACET BALANCE BEAM DOUBLE (MODEL #237934), 14" FACET STEPPER (MODEL #237103), 22" FACET STEPPER (MODEL #237104), AND 28" FACET STEPPER (MODEL # 237105).	LANDSCAPE STRUCTURES; SALES REPRESENTATIVE: REP SERVICES, INC., CONTACT: SCOTT BRUSHWOOD, PH: (813) 294-7325, EMAIL: SBRUSHWOOD@REPSERVICES.COM	TBD	CONTRACTOR PERMITTED AND INSTALLED PER MANUFACTURER'S INSTRUCTIONS. PROVIDE SHOP DRAWINGS FOR APPROVAL.		6" LEVEL COMPACTED CRUSHED AGGREGATE BASE
P-19	1	POD CLIMBER 10" HEIGHT	POD CLIMBER (MODEL #158997)	LANDSCAPE STRUCTURES; SALES REPRESENTATIVE: REP SERVICES, INC., CONTACT: SCOTT BRUSHWOOD, PH: (813) 294-7325, EMAIL: SBRUSHWOOD@REPSERVICES.COM	TBD	CONTRACTOR PERMITTED AND INSTALLED PER MANUFACTURER'S INSTRUCTIONS. PROVIDE SHOP DRAWINGS FOR APPROVAL.		DIRECT BURIAL WITH CONCRETE FOOTINGS AND CRUSHED ROCK BASE QTY= 1 FOOTING PER ITEM SIZE= 12" WIDE AND 20" MIN. DEPTH
P-20	1	CURVED BALANCE BEAM AT 5-12 PLAY AREA	CURVED BALANCE BEAM (MODEL #100041)	LANDSCAPE STRUCTURES; SALES REPRESENTATIVE: REP SERVICES, INC., CONTACT: SCOTT BRUSHWOOD, PH: (813) 294-7325, EMAIL: SBRUSHWOOD@REPSERVICES.COM	TBD	CONTRACTOR PERMITTED AND INSTALLED PER MANUFACTURER'S INSTRUCTIONS. PROVIDE SHOP DRAWINGS FOR APPROVAL.		DIRECT BURIAL WITH CONCRETE FOOTINGS AND CRUSHED ROCK BASE QTY= 2 FOOTINGS PER ITEM SIZE= 12" WIDE AND 20" MIN. DEPTH
P-21	1	WOBBLE POD	IND WOBBLE POD (MODEL #158105)	LANDSCAPE STRUCTURES; SALES REPRESENTATIVE: REP SERVICES, INC., CONTACT: SCOTT BRUSHWOOD, PH: (813) 294-7325, EMAIL: SBRUSHWOOD@REPSERVICES.COM	TBD	CONTRACTOR PERMITTED AND INSTALLED PER MANUFACTURER'S INSTRUCTIONS. PROVIDE SHOP DRAWINGS FOR APPROVAL.		DIRECT BURIAL WITH CONCRETE FOOTINGS AND CRUSHED ROCK BASE QTY= 2 FOOTINGS PER ITEM SIZE= 12" WIDE AND 20" MIN. DEPTH
P-22	1	POD CLIMBER 8" HEIGHT	POD CLIMBER (MODEL #120710)	LANDSCAPE STRUCTURES; SALES REPRESENTATIVE: REP SERVICES, INC., CONTACT: SCOTT BRUSHWOOD, PH: (813) 294-7325, EMAIL: SBRUSHWOOD@REPSERVICES.COM	TBD	CONTRACTOR PERMITTED AND INSTALLED PER MANUFACTURER'S INSTRUCTIONS. PROVIDE SHOP DRAWINGS FOR APPROVAL.		DIRECT BURIAL WITH CONCRETE FOOTINGS AND CRUSHED ROCK BASE QTY= 1 FOOTING PER ITEM SIZE= 12" WIDE AND 20" MIN. DEPTH
P-23	1	PLAY AREA WELCOME SIGN (5-12 YR)	WELCOME SIGN (MODEL #182503), PROVIDE ONE FOR EACH PLAY AREA.	LANDSCAPE STRUCTURES; SALES REPRESENTATIVE: REP SERVICES, INC., CONTACT: SCOTT BRUSHWOOD, PH: (813) 294-7325, EMAIL: SBRUSHWOOD@REPSERVICES.COM	TBD	CONTRACTOR PERMITTED AND INSTALLED PER MANUFACTURER'S INSTRUCTIONS. PROVIDE SHOP DRAWINGS FOR APPROVAL.		DIRECT BURIAL WITH CONCRETE FOOTINGS AND CRUSHED ROCK BASE QTY= 1 TOTAL FOOTING SIZE= 12" WIDE AND 20" MIN. DEPTH

SITE FURNISHING SCHEDULE

ITEM #	QUANTITY	ITEM	DESCRIPTION / SPECIFICATION	MANUFACTURER	COLOR	COMMENTS	MEP COORDINATION	FOUNDATION ESTIMATES*
F-1	3	BIKE RACK	POWDER COATED BIKE RACK FOR EMBEDMENT MOUNT, MODEL #290-00/S-1	DUMOR, INC	BLACK	INSTALL PER MANUFACTURE'S INSTRUCTIONS.		DIRECT BURIAL WITH CONCRETE FOOTINGS AND CRUSHED ROCK BASE QTY= 6 TOTAL FOOTINGS (2 FOOTINGS PER ITEM) SIZE= 12" WIDE AND 24" MIN. DEPTH
F-2	1	4 SEAT ROUND METAL PICNIC TABLE	42" DIAMETER STEEL TABLE, 4 SEATS, MODEL #101-40	DUMOR, INC	BLACK	INSTALL PER MANUFACTURE'S INSTRUCTIONS.		SURFACE MOUNT
F-3	3	ADA ROUND METAL PICNIC TABLE	42" DIAMETER STEEL ADA TABLE, 3 SEATS, MODEL #101-30	DUMOR, INC	BLACK	INSTALL PER MANUFACTURE'S INSTRUCTIONS.		SURFACE MOUNT
F-4	1	8' PICNIC TABLE (ADA)	ADA PICNIC TABLE, RECYCLED PLASTIC MODEL # 77-68-1PL	DUMOR, INC	WALNUT RECYCLED PLASTIC WITH POWDER COATED BLACK	INSTALL PER MANUFACTURE'S INSTRUCTIONS.		SURFACE MOUNT
F-5	1	KIDS PICNIC TABLE	KIDS 4 PERSON PICNIC TABLE, 4 SEATS, MODEL #65-651-4PL	DUMOR, INC	WALNUT RECYCLED PLASTIC WITH POWDER COATED BLACK	INSTALL PER MANUFACTURE'S INSTRUCTIONS.		SURFACE MOUNT
F-6	6	6' PARK BENCH WITH CENTER ARMREST	6' CAST BENCH WITH OPTIONAL CENTER ARMREST, STEEL SEAT, MODEL: 58 SERIES (MODEL 58 ARMREST).	DUMOR, INC	BLACK	INSTALL PER MANUFACTURE'S INSTRUCTIONS.		SURFACE MOUNT
F-7	3	TRASH RECEPTACLE	32-GALLON STEEL RECEPTACLE MODEL # 84-32	DUMOR, INC	BLACK	INSTALL PER MANUFACTURE'S INSTRUCTIONS.		SURFACE MOUNT
F-8	1	ADA DRINKING FOUNTAIN AND BOTTLE FILLER	10145 SMSSFA (FRONT APPROACH) WATER FOUNTAIN	MOST DEPENDABLE FOUNTAINS, INC.	SILVER	INSTALL PER MANUFACTURE'S INSTRUCTIONS.	COORDINATE SHALLOW DRAIN WELL AND WATER CONNECTION PER DETAILS.	SURFACE MOUNT
F-9	1	PARK SIGNAGE	SUBMIT SHOP DRAWINGS	SUBMIT SHOP DRAWINGS	SEE SHEET HP506	SEE HUBERT AVE PARK SIGN DETAILS.		SIZE PER SHOP DRAWINGS SUBMITAL.
F-10	1	PARK SHELTER; TWO TIERED HEXIGON (6 POSTS)	24' DELUXE OXFORD	POLIGON	TBD	PROVIDE SHOP DRAWINGS; INCLUDE 6" CONCRETE SLAB WITH FIBERMESH REINFORCEMENT. OWNER PURCHASED, CONTRACTOR INSTALLED.	COORDINATE ELECTRICAL. SEE ELECTRICAL PLANS.	4' X 4' X 2' CONCRETE SPREAD FOUNDATION REINFORCED AS REQUIRED QTY= 6 TOTAL SEE DETAIL
F-11	54	WOOD PARK BOLLARD	SEE DETAIL	SEE DETAIL	SEE DETAIL	SEE INSTALLATION DETAIL		SEE DETAIL
F-12	5	COLLAPSIBLE PARK BOLLARD SURFACE MOUNTED.	SINGLE POST COLLAPSIBLE BOLLARD (MODEL # LPHDHB); 6" X 3" X 3/8"; CARBON STEEL	TRAFFIC GUARD	POWDER COATED BLACK (CUSTOM COLOR)	INSTALL PER MANUFACTURE'S INSTRUCTIONS. NONSTANDARD CUSTOM COLOR.		SURFACE MOUNT ONTO 6" SIDEWALK.
F-13	1	HAND SANITIZING STATION	SUBMIT FOR PARK AND REC APPROVAL	SUBMIT FOR PARK AND REC APPROVAL	TBD	INSTALL PER MANUFACTURE'S INSTRUCTIONS.		NOT APPLICABLE. ATTACHED TO PAVILION POST.
F-14	4 (2 WELCOME / RULES SIGNS 2 SERVICE ANIMALS SIGNS)	PARK RULES SIGNS	SEE PARK RULES SIGN DETAIL	NA	SEE PARK RULES SIGN DETAIL	INSTALL PER MANUFACTURE'S INSTRUCTIONS.	CONTRACTOR PERMITTED AND INSTALLED PER MANUFACTURER'S INSTRUCTIONS. PROVIDE SHOP DRAWINGS FOR APPROVAL.	SIZE PER SHOP DRAWING SUBMITTAL.
F-15	1	COMMUNICATION BOARD	SEE DETAIL ON SHEET HP505	SUBMIT SHOP DRAWINGS	BLACK POSTS	PROVIDE SHOP DRAWINGS FOR APPROVAL.		SIZE PER SHOP DRAWING SUBMITTAL.
F-16	1	COLLAPSIBLE PARK BOLLARD WITH CONCRETE PIER	SINGLE POST COLLAPSIBLE BOLLARD (MODEL # LPHDHB); 6" X 3" X 3/8"; CARBON STEEL	TRAFFIC GUARD	POWDER COATED BLACK (CUSTOM)	INSTALL PER MANUFACTURE'S INSTRUCTIONS. NONSTANDARD CUSTOM COLOR. INCLUDE OPTIONAL CARDBOARD FORM. FLUSH WITH ADJACENT SURFACE. INSTALL SO THAT BOLLARD COLLAPSES TOWARD STREET AND NOT OVER SIDEWALK.		18" DIA. CONCRETE PIER AT 42" BELOW GRADE WITH VERTICAL #4 REBAR. SEE MANUFACTURER'S INSTALLATION INSTRUCTIONS.

GATE AND FENCE SCHEDULE

ITEM #	QUANTITY	ITEM	DESCRIPTION / SPECIFICATION	MANUFACTURER	COLOR	COMMENTS	MEP COORDINATION	FOUNDATION ESTIMATES*
GF-1	+-385 LF (CONTRACTOR TO VERIFY)	4' HIGH METAL PICKET FENCE	MONTAGE PLUS, 4' HEIGHT, 3 RAIL WITH CLASSIC STYLE AND DOUBLE RING ADORNMENT OPTION.	AMERISTAR OR APPROVED EQUAL.	BLACK	INSTALL PER MANUFACTURE'S INSTRUCTIONS. PROVIDE AIR SPADE REPORT FOR ANY FOOTINGS WITHIN TREE PROTECTION ZONE. SUBMIT SHOP DRAWINGS.		
GF-2	+-234 LF (CONTRACTOR TO VERIFY)	6' HIGH METAL PICKET FENCE	MONTAGE PLUS, 6' HEIGHT, 3 RAIL WITH CLASSIC STYLE.	AMERISTAR OR APPROVED EQUAL.	BLACK	INSTALL PER MANUFACTURE'S INSTRUCTIONS. PROVIDE AIR SPADE REPORT FOR ANY FOOTINGS WITHIN TREE PROTECTION ZONE. SUBMIT SHOP DRAWINGS.		
GF-3	2	4' HIGH METAL PICKET FENCE DOUBLE SWING GATE. 12' WIDE OPENING.	MONTAGE PLUS DOUBLE SWING GATES, 4' HEIGHT, 3 RAIL WITH CLASSIC STYLE AND DOUBLE RING ADORNMENT OPTION.	AMERISTAR OR APPROVED EQUAL.	BLACK	INSTALL PER MANUFACTURE'S INSTRUCTIONS. SUBMIT SHOP DRAWINGS.		
GF-4	1	4' HIGH METAL PICKET FENCE DOUBLE SWING GATE. 8' WIDE OPENING.	MONTAGE PLUS DOUBLE SWING GATES, 4' HEIGHT, 3 RAIL WITH CLASSIC STYLE AND DOUBLE RING ADORNMENT OPTION.	AMERISTAR OR APPROVED EQUAL.	BLACK	INSTALL PER MANUFACTURE'S INSTRUCTIONS. PROVIDE AIR SPADE REPORT FOR ANY FOOTINGS WITHIN TREE PROTECTION ZONE. SUBMIT SHOP DRAWINGS.		
GF-5	+- 780 LF (CONTRACTOR TO VERIFY)	6' HIGH WOOD FENCE	SEE DETAIL	FENCE CONTRACTOR	PAINTED - COLOR TBD	INSTALL PER DETAIL. PROVIDE AIR SPADE REPORT FOR ANY FOOTINGS WITHIN TREE PROTECTION ZONE. SUBMIT SHOP DRAWINGS.		
GF-6	2	6' LONG CUSTOM METAL PROPELLER LOGOS	CUSTOM POWDER COATED PROPELLER LOGOS TO BE FASTENED TO FENCE PANEL. MIN 3/8" THICKNESS.	PROVIDE SHOP DRAWINGS AND COORDINATE WITH FENCE SHOP DRAWINGS.	POWDER COATED BLACK TO MATCH FENCE.	PROVIDE SHOP DRAWINGS FOR APPROVAL WITH HIDDEN FASTENERS.		
GF-7	1	KNOXBOX MOUNTED TO GATE	KNOXBOX 3200; MODEL 3261, SURFACE MOUNT, HINGED DOOR, BLACK	KNOX, KNOXBOX.COM	BLACK	SHOW ON GATE SHOP DRAWING SUBMITTALS AND INCLUDE PROPOSED MOUNTING. INSTALL PER MANF. INSTRUCTIONS.		

PAVING AND MATERIAL SCHEDULE

ITEM #	QUANTITY	ITEM	DESCRIPTION / SPECIFICATION	MANUFACTURER	COLOR	COMMENTS	MEP COORDINATION
PM-1	CONTRACTOR TO CALCULATE	6" CONCRETE WALK	6" THICK FDOT CLASS I (4,000 PSI AFTER 30 DAYS) CONCRETE WITH WIRE MESH. WIDTH PER PLAN. BROOM FINISH.	NA	NATURAL GRAY	PROVIDE CONTROL JOINTS 6'-0" O.C. & EXPANSION JOINTS 35'-0" O.C. OR AS OTHERWISE INDICATED ON PLANS. MAXIMUM SURFACE AREA BETWEEN C.J. SHALL NOT EXCEED 100 S.F.; MAX SURFACE AREA BETWEEN E.J. SHALL NOT EXCEED 400 S.F. PROVIDE ISOLATION JOINT BETWEEN PAVING AND ALL FIXED VERTICAL SITE ELEMENTS.	
PM-2	SEE SHEET HP 100	CONCRETE BOARDWALK	TBD	PERMATRAK OR APPROVED EQ.	TBD	PROVIDE SHOP DRAWINGS FOR APPROVAL. DESIGN LIVE LOAD: PEDESTRIAN LOADING (90 PSF) UNIFORM; VEHICULAR LOADING (5,000 LB MAINTENANCE VEHICLE. SOIL PREP, COMPACTION, LEVELING, AND CAST IN PLACE APPROACHES SHALL BE SUPPLIED BY CONTRACTOR. SEE SHEET LP502 FOR ADDITIONAL REQUIREMENTS. PROVIDE AN ISA CERTIFIED AIR SPADE REPORT FOR PERMTRAK BASE WITHIN TREE PROTECTION ZONE.	COORDINATE ELECTRICAL CONDUIT ON UNDERSIDE OF BOARDWALK. SEE ELECTRICAL PLANS.
PM-3	+- 280 SF (TRAIL 5' W) PLUS +- 260 SF IN RIGHT OF WAY.	FLEXI-PAVE HD2000	1.5" THICK FLEXI-PAVE HD2000 INSTALLED OVER CLEAN COMPACTED 57 STONE	KPI FLEXI-PAVE. K.B. INDUSTRIES, INC. PHONE: (727) 723-3300	TBD - SUBMIT COLOR SAMPLES FOR APPROVAL	INSTALL PER MANUFACTURER'S SPECIFICATIONS. PROVIDE AIR SPADE REPORT TO MINIMIZE ROOT IMPACTS. CONTRACTOR SHALL SUPPLY AND INSTALL BASE ROCK MATERIAL SHOWN IN DETAIL.	
PM-4	CONTRACTOR TO CALCULATE	4" CONCRETE PAD FOR FURNISHINGS	4" THICK FDOT CLASS I (3,000 PSI AFTER 30 DAYS) WITH 6X6 2.1 WWF (WIRE MESH) WIDTH PER PLAN. BROOM FINISH.	NA	NATURAL GRAY	PROVIDE CONTROL JOINTS 6'-0" O.C. & EXPANSION JOINTS 35'-0" O.C. OR AS OTHERWISE INDICATED ON PLANS. MAXIMUM SURFACE AREA BETWEEN C.J. SHALL NOT EXCEED 100 S.F.; MAX SURFACE AREA BETWEEN E.J. SHALL NOT EXCEED 400 S.F. PROVIDE ISOLATION JOINT BETWEEN PAVING AND ALL FIXED VERTICAL SITE ELEMENTS.	
PM-5	+- 380 SF	4" THICK INTEGRAL COLORED CONCRETE PAD AT SHELTER	4" THICK INTEGRAL COLORED CONCRETE: FDOT CLASS I (3,000 PSI AFTER 30 DAYS) WITH 6X6 2.1 WWF (WIRE MESH) WIDTH PER PLAN. BROOM FINISH. SEAL WITH SCOFIELD CURESEAL 700 PER MANUFACTURER'S INSTRUCTIONS.	SCOFIELD	TBD	INSTALL PER MANUFACTURER'S SPECIFICATIONS. USE MEDIUM GRAY CEMENT AND SEAL WITH SOLVENT BASED SCOFIELD CURESEAL 700.	
PM-6	+- 122 LF	6" WIDE X 12" DEEP CONCRETE FLUSH CURB	6" X 12" CURB WITH REINFORCEMENT AND AGGREGATE BASE	NA	NATURAL GRAY	SEE DETAIL 5 SHEET HP503.	

MATERIAL NOTES

* FOUNDATION ESTIMATES PROVIDED FOR BIDDING PURPOSES ONLY. CONTRACTOR SHALL REVIEW MANUFACTURER'S INSTALLATION INSTRUCTIONS PRIOR TO BIDDING TO ENSURE ESTIMATES ARE ACCURATE. ALL FOUNDATIONS SHALL BE SIZED PER THE FINAL APPROVED ENGINEERED SHOP DRAWINGS AND PERMIT PLANS. SEE SHEET LL501 FOR LIGHT POLE FOUNDATIONS.

1. PRIOR TO BIDDING, CONTRACTOR SHALL REVIEW MANUFACTUER'S RECOMMENDED STRUCTURAL FOOTING INSTALLATION AND INCLUDE THE COST OF ALL FOOTING DESIGN IN BID.
2. VERIFY ALL FINAL MATERIALS WITH SUBMITTALS SUPPLY SAMPLES OF ALL COLORS AND PATTERS TO LANDSCAPE ARCHITECT FOR APPROVAL. ANY MATERIALS SUBSTITUTIONS ARE REQUIRED TO BE SUBMITTED FOR REVIEW AND APPROVAL BY THE LANDSCAPE ARCHITECT PRIOR TO FABRICATION AND/OR INSTALLATION. ALL SUBSTITUTIONS WILL BE SUBMITTED IN WRITING TO THE LANDSCAPE ARCHITECT AND ACCOMPANIED BY A PHYSICAL SAMPLE. ANY SUBSTITUTIONS NOT APPROVED WILL BE REJECTED AND THE CONTRACTOR WILL ASSUME RESPONSIBILITY FOR ALL COSTS, LABOR, ADDITIONAL MATERIALS, AND ALL ADJACENT AREAS AFFECTED BY REMEDIAL WORK TO BRING THE PROJECT BACK TO SPECIFICATIONS.
3. ALL MATERIALS/FINISHES SHALL BE INSTALLED, CONSTRUCTED, AND APPLIED ACCORDING TO THE MANUFACTURER'S RECOMMENDED METHODS.
4. CONTRACTOR IS RESPONSIBLE FOR ALL MATERIALS AND FURNISHINGS DAMAGES PRIOR TO PROJECT ACCEPTANCE. WHEN REQUIRED, CONTRACTOR SHALL ASSEMBLE PER MANUFACTURER'S INSTRUCTIONS.
5. QUANTITIES SHOWN ARE EXACT TAKE-OFFS FROM PLANS AND DO NOT ACCOUNT FOR CUTS, BREAKS, OR WASTE. CONTRACTOR TO VERIFY QUANTITIES AND BID APPROPRIATELY. CONTRACTOR IS RESPONSIBLE FOR PURCHASING, DELIVERING, AND SECURELY STORING ALL MATERIALS AS NECESSARY.
6. SITE FURNISHINGS SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS, OR AS RECOMMENDED IN THE DRAWINGS. DETAILS PROVIDED IN THE DRAWINGS FOR ANCHORING OF FURNISHINGS ARE PROVIDED FOR INTENT ONLY. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO COORDINATE WITH THE MANUFACTURER AND SUBMIT ANCHORING DETAILS FOR APPROVAL BY OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.
7. CONTRACTOR SHALL HAVE AN ISA CERTI

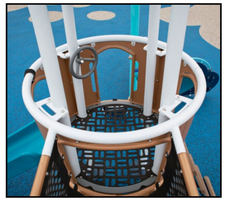
SHOP DRAWINGS SHALL INCLUDE CUSTOM PERORATED METAL BALLON ELEMENT



11 Play Events

1. Crawl Tunnel
2. Tunnel Slider Discs
3. Two Pinwheel Talk Tubes
4. Cloud Belt Climber
5. Counter with Seats
6. Steering Wheel
7. Single Slide
8. Belt Bridge Climber
9. Store Front Panel
10. Lava Run Slide
11. Lumber Climber





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P-1 BREEZE PLAY EQUIPMENT (2-5 YEAR OLDS)



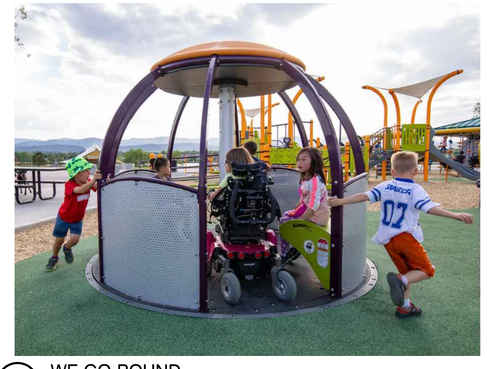
P-2 BILLOWS PLAY EQUIPMENT (5-12 YEAR OLDS)



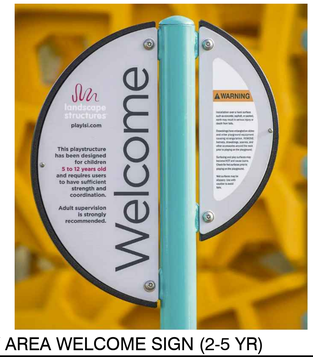
P-3 PLAY DOME



P-4 WE-SAW



P-5 WE-GO-ROUND



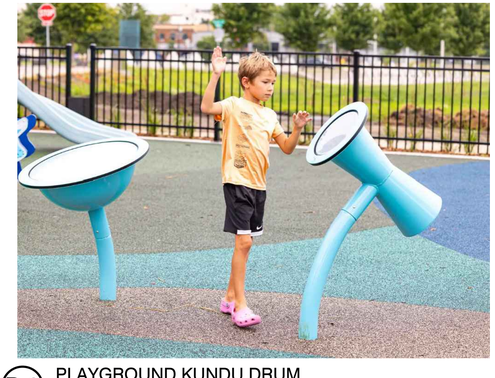
P-6 PLAY AREA WELCOME SIGN (2-5 YR)



P-7 PLAYGROUND GRANDIOSO CHIMES



P-8 PLAYGROUND TONGUE DRUM



P-9 PLAYGROUND KUNDU DRUM



P-10 PLAYGROUND KETTLE DRUM

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Prepared For:

City of Tampa
306 East Jackson Street
Tampa, Florida 33602

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4106, 4108, & 4110 N. Hubert Ave + 4115 N. Manhattan
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Checked By:	**CJA**

Sheet Title

FINISHES AND FURNISHINGS

Sheet No.

HP602



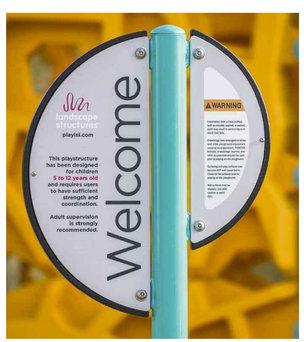
P-11 PLAYGROUND GOBLET DRUM



P-15 HD POLYETHYLENE TIMBERS



P-19 POD CLIMBER 10" HEIGHT



P-6 PLAY AREA WELCOME SIGN (5-12 YR)



P-12 SWING SET (5 SWINGS)



P-16 SADDLE SPINNER



P-20 CURVED BALANCE BEAM



F-1 BIKE RACK



P-13 POURED IN PLACE SAFETY SURFACING



P-17 CURVA SPINNER



P-21 WOBBLE POD



F-2 4 SEAT ROUND METAL PICNIC TABLE



P-14 ENGINEERED WOOD FIBER AT SWING SET



P-18 FACET BALANCE BEAM AND FACET STEPPERS



P-22 POD CLIMBER 8" HEIGHT



F-3 ADA ROUND METAL PICNIC TABLE

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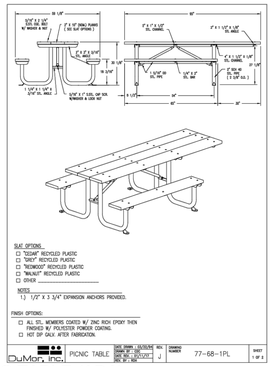
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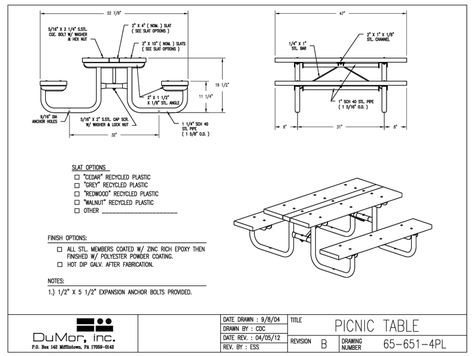
FINISHES AND FURNISHINGS

Sheet No.

HP603



F-4 8' PICNIC TABLE (ADA)



F-5 KIDS PICNIC TABLE



F-6 PARK BENCH



F-7 TRASH RECEPTACLE

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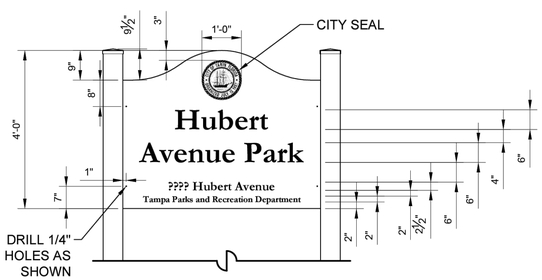
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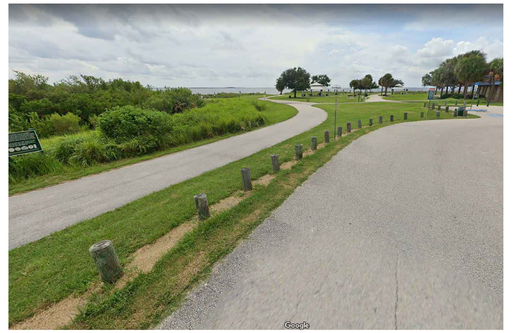
F-8 ADA DRINKING FOUNTAIN AND BOTTLE FILLER



F-9 PARK SIGNAGE



F-10 PARK SHELTER; TWO TIERED HEXIGON (6 POSTS)

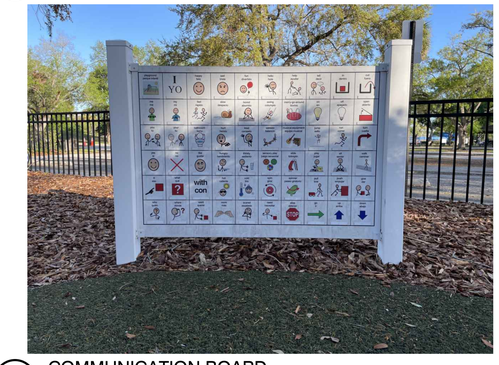


F-11 WOOD PARK BOLLARD

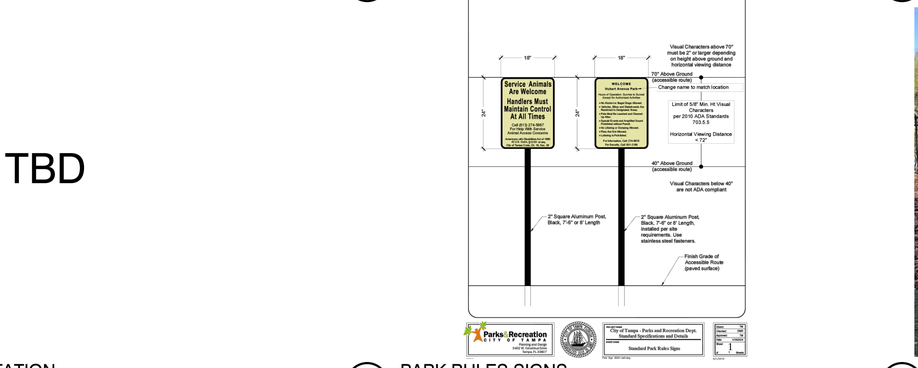
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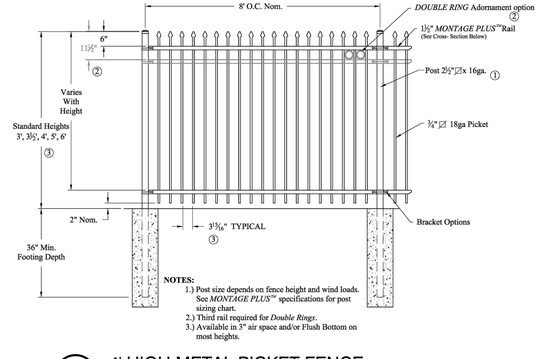
F-12 COLLAPSIBLE PARK BOLLARD



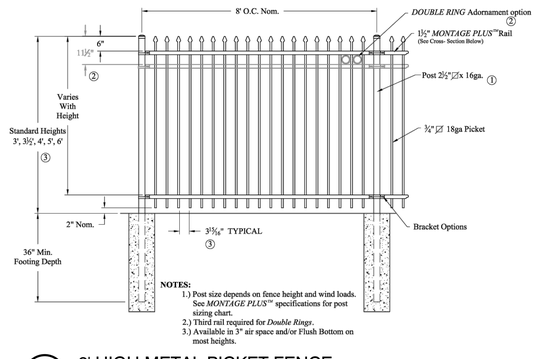
F-15 COMMUNICATION BOARD



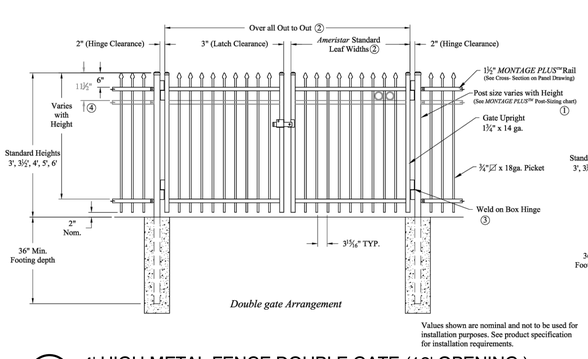
F-14 PARK RULES SIGNS



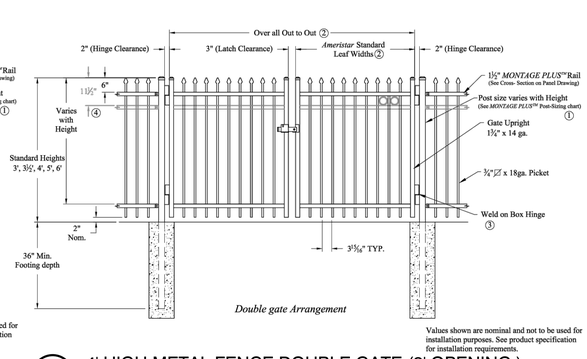
GF-1 4' HIGH METAL PICKET FENCE



GF-2 6' HIGH METAL PICKET FENCE



GF-3 4' HIGH METAL FENCE DOUBLE GATE (12' OPENING)



GF-4 4' HIGH METAL FENCE DOUBLE GATE (8' OPENING)

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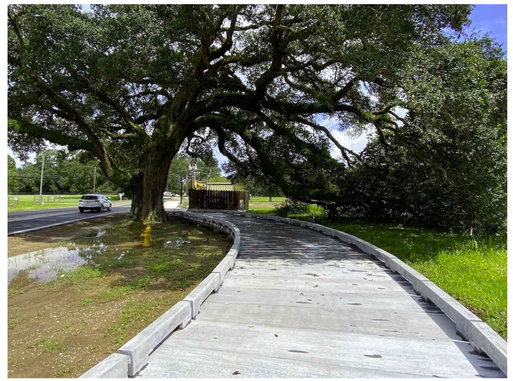
FINISHES AND FURNISHINGS

Sheet No.

HP604



PM-1 6" CONCRETE WALK



PM-2 CONCRETE BOARDWALK



PM-3 BONDED RUBBER TRAIL SURFACE

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Prepared For:

City of Tampa
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Hubert Avenue Park & Right-Of-Way Improvements

4106, 4108, & 4110 N. Hubert Ave + 4115 N. Manhattan Tampa, Florida

Seal

BID SET

REV	DATE	DESCRIPTION
5		
4		
3		
2		
1		

Date:	**MAY 15, 2026**
Job No.:	**8702**
Drawn By:	**GLA**
Checked By:	**CJA**

Sheet Title

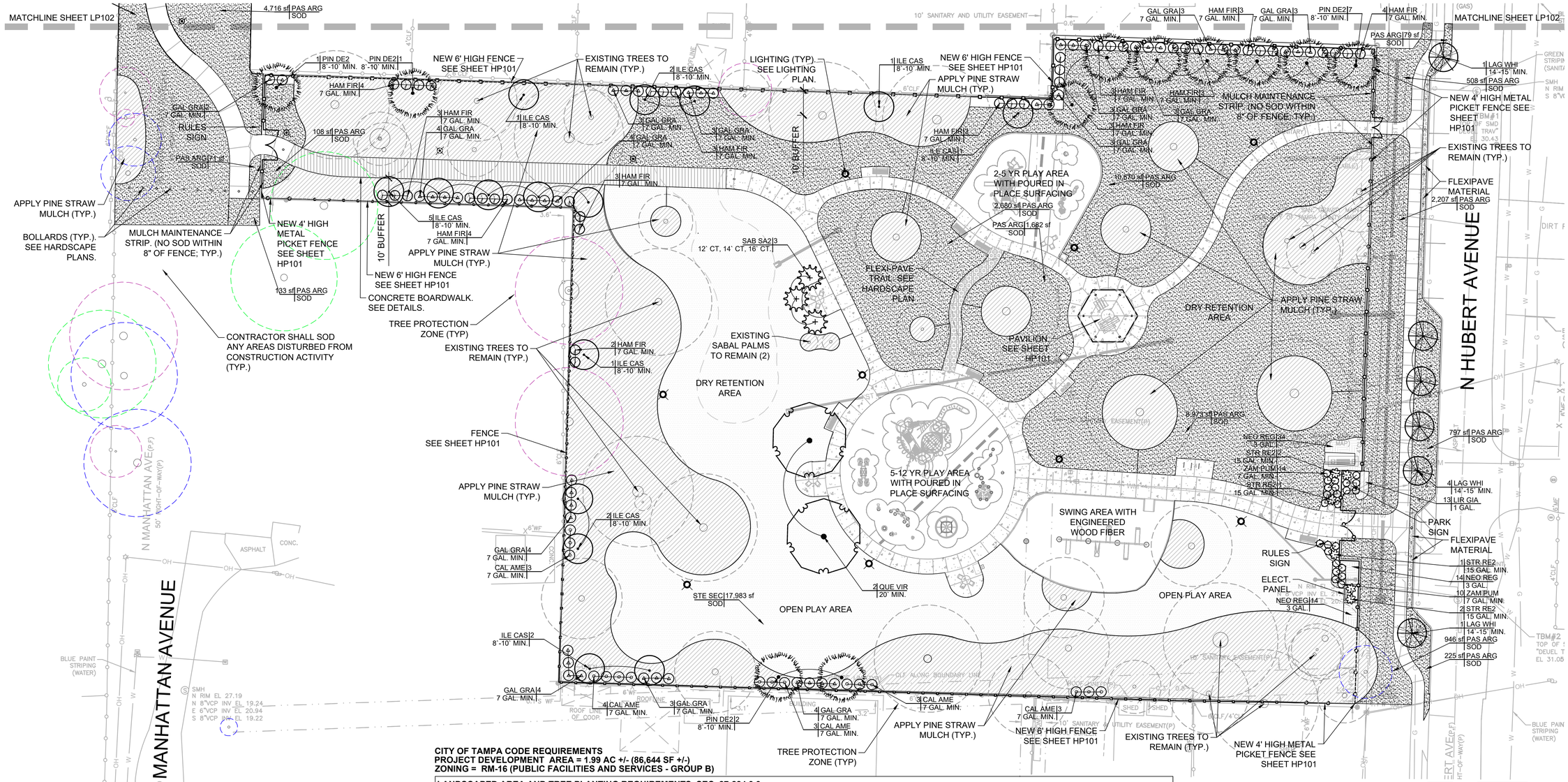
FINISHES AND FURNISHINGS

Sheet No.

HP605

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CITY OF TAMPA CODE REQUIREMENTS
PROJECT DEVELOPMENT AREA = 1.99 AC +/- (86,644 SF +/-)
ZONING = RM-16 (PUBLIC FACILITIES AND SERVICES - GROUP B)

LANDSCAPED AREA AND TREE PLANTING REQUIREMENTS, SEC. 27-284.3.3					
BUFFER	**BUFFER REQ.**	**MIN REQUIRED TREES (NO TREES REQUIRED IN TPZ)**		**BUFFER/SCREEN (NO SHRUBS REQUIRED IN TPZ)**	
		REQUIRED	**TO BE PROVIDED**	**REQUIRED**	**TO BE PROVIDED**
NORTH - RESIDENTIAL	10'	ROW OF EVERGREEN TREES 20' O.C. (EXCLUDES TPZ) (475 LF / 20 = 24 TREES)	ROW OF EVERGREEN TREES 20' O.C. (EXCLUDES TPZ) 11 EXISTING; 14 PROPOSED	ROW OF SHRUBS 5' O.C. (EXCLUDES TPZ)	ROW OF SHRUBS 5' O.C. (EXCLUDES TPZ)
EAST - HUBERT AVE RIGHT-OF-WAY	0'	NONE	NONE	NONE	NONE
SOUTH - RESIDENTIAL	10'	ROW OF EVERGREEN TREES 20' O.C. (EXCLUDES TPZ) 450 LF / 20 = 23 TREES	ROW OF EVERGREEN TREES 20' O.C. (EXCLUDES TPZ) 14 EXISTING; 9 PROPOSED	ROW OF SHRUBS 5' O.C. (EXCLUDES TPZ)	ROW OF SHRUBS 5' O.C. (EXCLUDES TPZ)
WEST - RESIDENTIAL (EXCLUDES RIGHT-OF-WAY)	10'	ROW OF EVERGREEN TREES 20' O.C. (EXCLUDES TPZ) 190 LF / 20 = 10 TREES	ROW OF EVERGREEN TREES 20' O.C. (EXCLUDES TPZ) 7 EXISTING; 3 PROPOSED	ROW OF SHRUBS 5' O.C. (EXCLUDES TPZ)	ROW OF SHRUBS 5' O.C. (EXCLUDES TPZ)
WEST - RIGHT-OF-WAY (W. MANHATTAN AVE)	0'	NONE	NONE	NONE	NONE

TREE MITIGATION CALCULATIONS, SEC. 27-284.4.1 (CALCULATION FOR ON SITE TREES -- SEE SHEET LP102)

MITIGATION TREES REQUIRED: **-436** "TYPE 1" TREES (2.5" CAL.), **-1** "TYPE 2" TREES (2.5" CAL.), **3** "TYPE 3" TREES (2.5" CAL.) AND **0** PALMS (6' CT MIN.)
TREES PROPOSED: 2 "TYPE 1" TREES (3" CAL.), 26 "TYPE 2" TREES (3" CAL.), 6 "TYPE 3" TREES (3" CAL.) AND 3 PALMS (8' CT MIN.)
NOTE: PER SECTION 27-284.4.1-B, THE REQUIRED "TYPE 3" MITIGATION TREES ARE MET WITH THE MITIGATION TREE EQUIVALENCY RATIO WITH THE TWO TYPE 1 PROPOSED TREES (LIVE OAKS). THE TWO PROPOSE LIVE OAKS FULFILL THE "TYPE 3" TREE MITIGATION REQUIREMENTS (1:3 TREE EQUIVALENCY).

TREE PRESERVATION (RETENTION) STANDARD, SEC. 27-284.3.1 (SEE SHEET LP102 FOR TREE INVENTORY AND CONDITION RATINGS)

TOTAL ONSITE GRAND TREES: 20 GRAND TREES
TOTAL ONSITE GRAND TREES PRESERVED: 16 GRAND TREES (80%)
TOTAL ONSITE GRAND TREE PROPOSED FOR REMOVAL: 4 GRAND TREES (ALL HAZARDOUS TREES WITH D RATING OR LOWER)

TOTAL ONSITE JURISDICTIONAL TREES (NON GRAND TREES; TYPE 1,2,3): 33 TREES
TOTAL ONSITE JURISDICTIONAL TREES (NON GRAND TREES; TYPE 1,2,3; FAIR OR BETTER RATING): 24 TREES
TOTAL ONSITE JURISDICTIONAL TREES PRESERVED (NON GRAND TREES; TYPE 1,2,3; FAIR OR BETTER RATING): 23 TREES (96%) -- MEETS 50% REQUIREMENT
TOTAL PALMS ONSITE PRESERVED: 5 PALMS (100% PRESERVED)

NOTES

1. SEE SHEET TP101-102 FOR TREE INVENTORY / PRESERVATION PLAN. SEE SHEET TP501 FOR TREE PRESERVATION DETAILS.
2. SEE SHEET LP101-102 FOR LANDSCAPE PLAN. SEE SHEET LP501 FOR LANDSCAPE DETAILS. SEE SHEET LP601 FOR LANDSCAPE NOTES. SEE SHEET LP602 FOR LANDSCAPE SPECIFICATIONS.
3. IRRIGATION PLAN: SEE IRRIGATION PLANS.
4. SOD ALL DISTURBED AREAS.
5. THE PROJECT SHALL COMPLY WITH ALL CITY OF TAMPA LANDSCAPE, TREE PROTECTION, AND TREE PLANTING REQUIREMENTS.

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Date:	**MAY 15, 2026**
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Drawn By:	**GLA**
Checked By:	**CJA**

Sheet Title

LANDSCAPE PLAN

Sheet No.

LP101

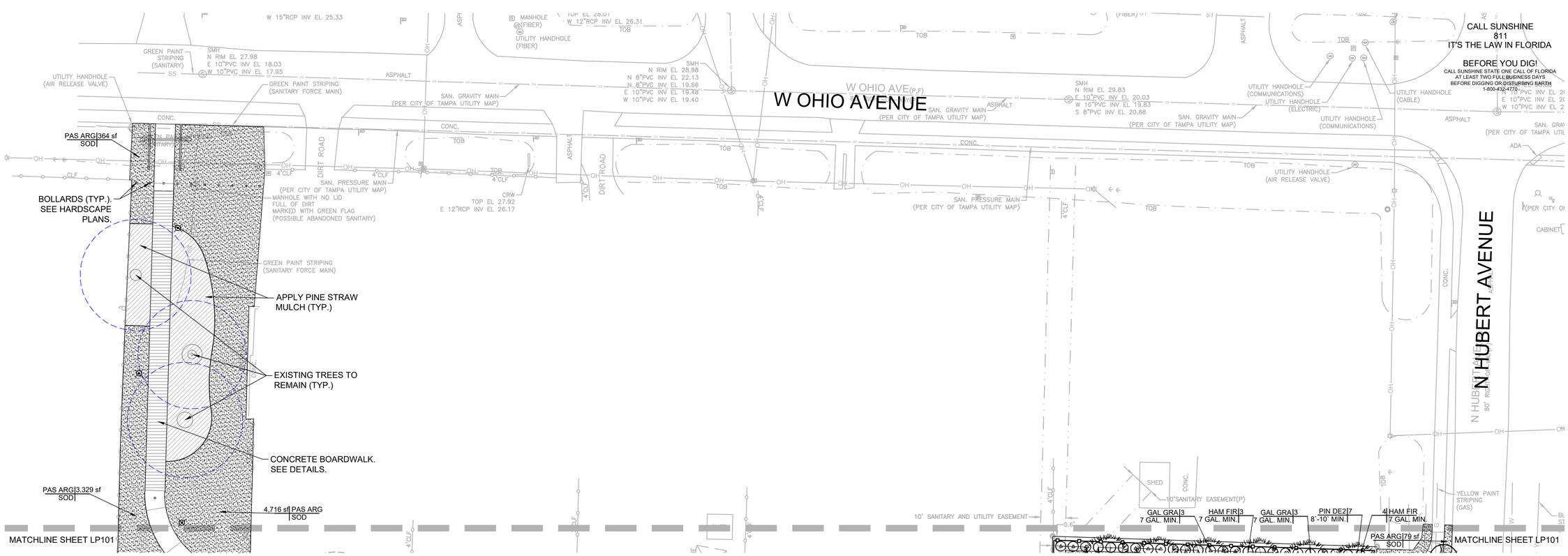


TABLE 284.4.1-A: TREE RETENTION-MITIGATION EQUIVALENCY TABLES BY TREE TYPE [6]

TYPE 1: TALL & WIDE	Trees Retained	# of trees	Retention Multiplier	Total Credits	Grand Trees Retained	# of trees	Equivalent # of 2.5" Cal Trees	Total Credits
	Diameter (inches) / Dripline (feet)							
	5" to 10"	1	-1	-1	Grand tree(s)	16	284	-284
	11" to 20"	7	-2	-14				
	21" to 25"	6	-4	-24				
	26" to <32"	12	-12	-144				
	Subtotal	**26**		**-183**	**Subtotal**			-284
	Trees Removed	**# of trees**	**Replacement Multiplier**	**Total Debits**	**Grand Trees Removed**	**# of trees**	**Equivalent # of 2.5" Cal Trees**	**Total Debits**
	Diameter (inches) / Dripline (feet)							
	5" to 10"	1	1	1	Grand tree(s)	4	19	19
	11" to 20"	1	2	2				
	21" to 25"	3	3	9				
	26" to <32"	0	4	0				
	Subtotal	**5**		**12**	**Subtotal**			**19**
							Type 1: Total Mitigation Trees Required	**-436**
TYPE 2: TALL & NARROW	**Trees Retained**	**# of trees**	**Retention Multiplier**	**Total Credits**	**Grand Trees Retained**	**# of trees**	**Equivalent # of 2.5" Cal Trees**	**Total Credits**
	Diameter (inches) / Dripline (feet)							
	5" to 17"	1	-1	-1	Grand tree(s)	0	0	0
	18" to 29"	0	-2	0				
	30" to <32"	0	-3	0				
	Subtotal	**1**		**-1**	**Subtotal**			0
	Trees Removed	**# of trees**	**Replacement Multiplier**	**Total Debits**	**Grand Trees Removed**	**# of trees**	**Equivalent # of 2.5" Cal Trees**	**Total Debits**
	Diameter (inches) / Dripline (feet)							
	5" to 17"	0	1	0	Grand tree(s)	0	0	0
	18" to 29"	0	2	0				
	30" to <32"	0	3	0				
	Subtotal	**0**		**0**	**Subtotal**			**0**
							Type 2: Total Mitigation Trees Required	**-1**
TYPE 3: SHORT & WIDE/MULTI-STEM	**Trees Retained**	**# of trees**	**Retention Multiplier**	**Total Credits**	**Grand Trees Retained**	**# of trees**	**Equivalent # of 2.5" Cal Trees**	**Total Credits**
	Diameter (inches) / Dripline (feet)							
	5" to 7"	0	-1	0	Grand tree(s)	0	0	0
	8" to 17"	0	-2	0				
	18" to 29"	0	-3	0				
	30" to <32"	0	-12	0				
	Subtotal	**0**		**0**	**Subtotal**			0
	Trees Removed	**# of trees**	**Replacement Multiplier**	**Total Debits**	**Grand Trees Removed**	**# of trees**	**Equivalent # of 2.5" Cal Trees**	**Total Debits**
	Diameter (inches) / Dripline (feet)							
	5" to 7"	0	1	0	Grand tree(s)	0	0	0
	8" to 17"	0	2	0				
	18" to 29"	1	3	3				
	30" to <32"	0	4	0				
	Subtotal	**1**		**3**	**Subtotal**			**0**
							Type 3: Total Mitigation Trees Required	**3**
PALMS	**Trees Retained**	**# of trees**	**Retention Multiplier**	**Total Credits**	**Trees Removed**	**# of trees**	**Replacement Multiplier**	**Total Debits**
	Palms with 6' clear trunk	5	-1	-5	Palms with 6' clear trunk	0	1	0
	Subtotal	**5**		**-5**	**Subtotal**	**0**		**0**
							Palm: Total Mitigation Trees Required	**0**

NOTES:

[1] All grand tree species calculated at "moderate" growth rate and using 10" caliper tree as standard 5-Year Parity (i.e. 154 SF replacement Crown Footprint per 2.5" caliper tree planted).

[2] Species Rating % standardized to mid-point of range. SR ["Species Rating"]: Rating denotes comparative value by species, based on suitability & performance as 'urban trees', using FL ISA's Tree Species Ratings (2016); recorded as PERCENT. If SR not available, use CR value (see Table 284.3.2-A City of Tampa Tree Matrix).

[3] CR ["Condition Rating"]: Rating using Tree Hazard Evaluation Method (Matheny and Clark 1994); recorded as a PERCENT ['A'=100%, 'B'=90%, 'C'=75%, 'D'=40%, 'F'=0%].

[4] Refer to Table 284.4.1-A1 Range of Species Ratings below.

[5] Credit for grand tree retention is calculated in the same manner as debits.

[6] All mitigation trees measuring less than 5" shall be factored into this table as a 5" tree.

Reference : "ft" means "feet;" "in" means "inches;" "SF" means "square feet;" "cal" means "caliper."

PLANT SCHEDULE

TREE TYPE	CODE	QTY	BOTANICAL NAME	COMMON NAME	HT.	SPR.	CALIPER
	TREES						
TYPE 2	ILE CAS	15	Ilex cassine 'Nativa' PPAF STANDARD, 45 GAL. CONTAINER MIN.	Dahoon Holly Native	8`-10` MIN.	4`-6` MIN.	3" MIN.
TYPE 3	LAG WHI	6	Lagerstroemia x `Natchez` STANDARD, 100 GAL. CONTAINER MIN. OR EQUIVALENT, 8' CLEAR TRUNK FOR STREET TREES	White Crape Myrtle	14`-15` MIN.	6`-7` MIN.	3.5" MIN.
TYPE 2	PIN DE2	11	Pinus elliotti `Densa` 45 GAL. MIN.; CROWN DIA 28" MIN.	Slash Pine	8`-10` MIN.	4` MIN.	3" MIN.
TYPE 1	QUE VIR	2	Quercus virginiana 670 Gal. OR B&B. SOURCE FROM ROOTS PLUS GROWER (SHALL INCLUDE TAG)	Southern Live Oak	20` MIN.	14`-16`	7.5" Min.
PALM	SAB SA2	3	Sabal palmetto STAGGERED; EQ. QTY. OF HEIGHTS REGENERATED PALMS	Cabbage Palmetto	12` CT, 14` CT, 16` CT.		

CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT.	HT.	SPR.
SHRUBS						
CAL AME	16	Callicarpa americana	American Beautyberry	7 GAL. MIN.	30"-36" MIN.	24"-36" MIN.
GAL GRA	46	Galphimia glauca	Thryallis	7 GAL. MIN.	30"-36" MIN.	24"-36" MIN.
HAM FIR	38	Hamelia patens	Firebush	7 GAL. MIN.	30"-36" MIN.	24"-36" MIN.
STR RE2	6	Strelitzia reginae 4-5 PPP MIN.	Bird Of Paradise	15 GAL. MIN.	32" MIN.	
ZAM PUM	24	Zamia pumila	Coontie Palm	7 GAL. MIN.	18" MIN.	18" MIN.

CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT.	HT.	SPR.	SPACING
GROUND COVERS							
LIR GIA	13	Liriope muscari `Evergreen Giant`	Evergreen Giant Border Grass	1 GAL.	12"	12"	22" o.c.
NEO REG	62	Neomarica caerulea 'Regina'	Regina Walking Iris	3 GAL.	18" MIN.		24" o.c.
SOD							
PAS ARG	36,775 sf	Paspalum notatum 'Argentine'	Bahia Grass	SOD			
STE SEC	18,159 sf	Stenotaphrum secundatum `CitraBlue`	CitraBlue St. Augustine	SOD			

ADDITIONAL OFFSITE SOD: CONTRACTOR SHALL INCLUDE A LINE ITEM IN THE BID FOR INSTALLATION OF AN ADDITIONAL 15,000 SF OF BAHIA SOD TO BE INSTALLED AS PART OF RIGHT-OF-WAY IMPROVEMENTS.

MULCH

ORGANIC MULCH - PINE STRAW MULCH TO BE APPLIED TO ALL PLANTING BEDS AND AS INDICATED IN PLANS, 4 INCH THICK DEPTH.

PLANT SCHEDULE NOTES:

1. SOD QUANTITIES ARE SQUARE FOOT ESTIMATE: ANY DISTURBED AREAS ON SITE OR WITHIN THE R.O.W. THAT ARE NOT COVERED WITH LANDSCAPE MATERIAL OR SOD SHALL BE SODDED. SOD QUANTITIES SHOWN IN SCHEDULE ARE ESTIMATES AND FOR REFERENCE ONLY - ADDITIONAL SOD WILL BE REQUIRED. CONTRACTOR SHALL BE RESPONSIBLE FOR CALCULATING AND VERIFYING REQUIRED SOD QUANTITIES PRIOR TO BID (INCLUDING ADDITIONAL SOD FOR THE PHASED LANDSCAPE AREA).
2. ALL TREES, PALMS, SHRUBS, GROUND COVERS AND OTHER PLANTS SHALL CONFORM TO THE STANDARD OF FLORIDA NO. 1 OR BETTER AS GIVEN IN THE LATEST EDITION OF GRADES AND STANDARDS FOR NURSERY PLANTS BY FLORIDA DEPARTMENT OF AGRICULTURE, PART I AND II. PLANT MATERIAL SHALL ALSO CONFORM TO THE AMERICAN ASSOCIATION OF NURSERYMEN, INC. (ANSI) BULLETIN Z 60.1 - 1990 AND AS REVISED. ALL PLANTS MUST BE HEALTHY, VIGOROUS MATERIAL, FREE OF PESTS AND DISEASE. PLANT MATERIAL (TREES, PALMS, SHRUBS, AND GROUNDCOVERS) ACCEPTANCE OCCURS ONCE APPROVED BY LANDSCAPE ARCHITECT AND NOT WHEN MATERIAL IS DELIVERED TO SITE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE A SCHEDULE WITH LANDSCAPE ARCHITECT TO REVIEW PLANT MATERIAL FOR ACCEPTANCE. LANDSCAPE ARCHITECT AND OWNER RESERVE THE RIGHT TO REJECT PLANT MATERIAL UNTIL FINAL PROJECT ACCEPTANCE.

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Tampa, Florida

Seal

BID SET

REV	DATE	DESCRIPTION
5		
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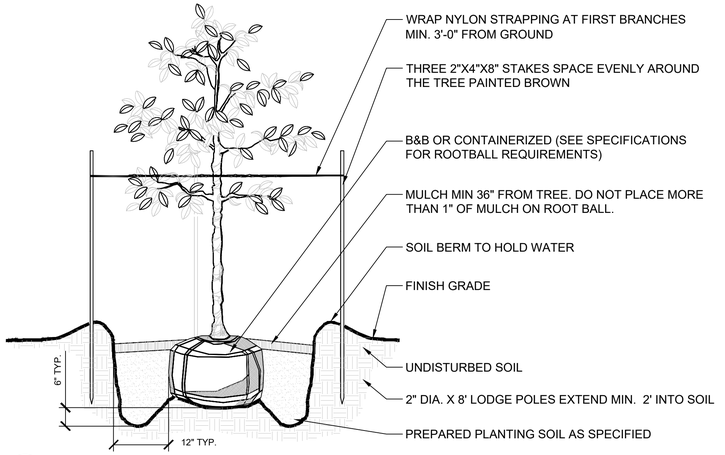
Date:	**MAY 15, 2026**
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Checked By:	**CJA**

Sheet Title

LANDSCAPE PLAN

Sheet No.

LP102



NOTE:
ARBOR TIE STAKING COMPONENTS AS MANUFACTURED BY STAKING SYSTEMS INC. OR APPROVED EQUAL

STAKING PLAN

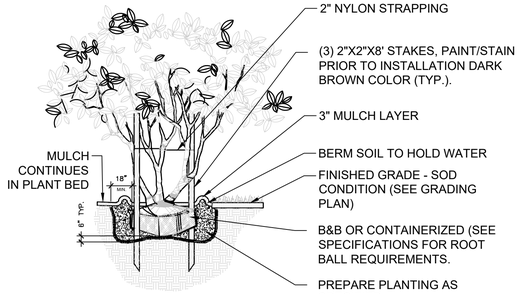


NOTE:
CONTRACTOR SHALL ASSURE PERCOLATION OF ALL PLANTING PITS PRIOR TO INSTALLATION.

1 TREE PLANTING (15-45 GAL.)

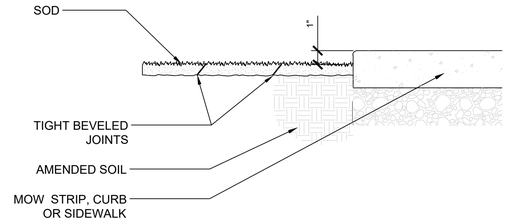
3/4" = 1'-0" P-HU-39

NOTE:
1. FINAL TREE STAKING DETAILS AND PLACEMENT TO BE APPROVED BY THE LANDSCAPE ARCHITECT.
2. CONTRACTOR SHALL ASSURE FREE DRAINAGE / PERCOLATION OF ALL PLANTING PITS PRIOR TO INSTALLATION.



2 MULTI-TRUNK TREE

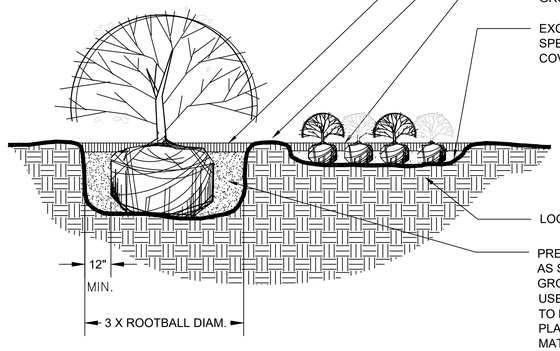
NTS P-HU-29



5 SOD INSTALLATION

NTS P-HU-35

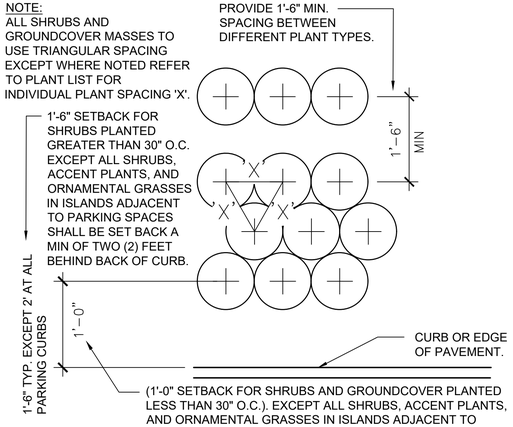
NOTES:
1. CONTRACTOR SHALL ASSURE FREE DRAINAGE / PERCOLATION OF ALL PLANTINGS PITS PRIOR TO INSTALLATION. AUGER FOR PERCOLATION AS REQUIRED.
2. DO NOT PLACE MULCH AGAINST TRUNK OF SHRUB. MIN. 2" CLEAR SPACE FROM TRUNK. NO MORE THAN 1" OF MULCH ON TOP OF ROOT BALL.
3. FERTILIZE AS SPECIFIED.



3 SHRUB AND GROUNDCOVER PLANTING

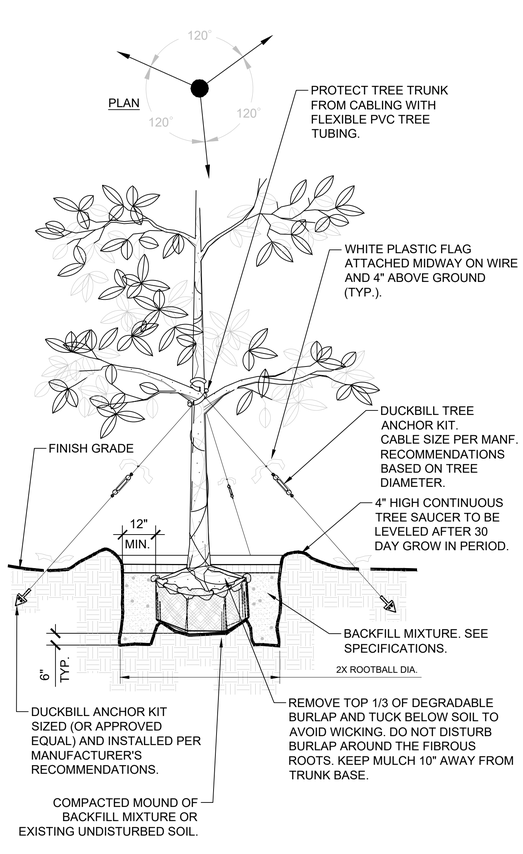
1" = 1'-0" P-HU-08

NOTE:
ALL SHRUBS AND GROUNDCOVER MASSES TO USE TRIANGULAR SPACING EXCEPT WHERE NOTED REFER TO PLANT LIST FOR INDIVIDUAL PLANT SPACING 'X'.



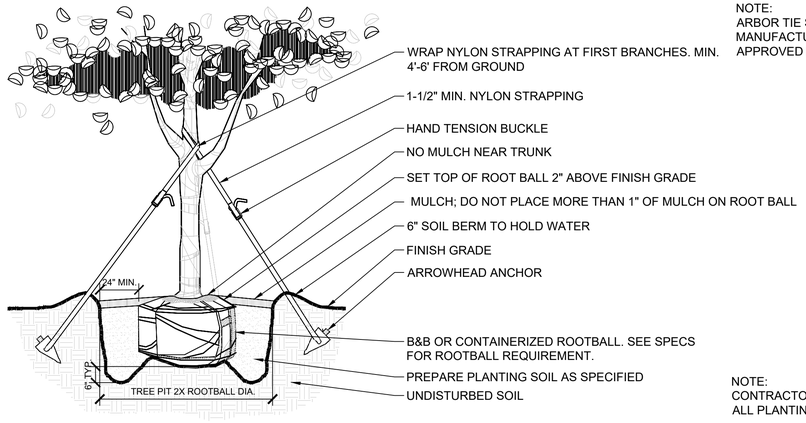
4 TYPICAL PLANT SPACING

1" = 1'-0" P-HU-04



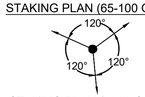
6 LARGE TREE INSTALLATION AND STAKING

NTS P-HU-34

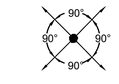


NOTE:
ARBOR TIE STAKING COMPONENTS AS MANUFACTURED BY STAKING SYSTEMS INC. OR APPROVED EQUAL

STAKING PLAN (65-100 Gal. Trees)



STAKING PLAN (>100 Gal. Trees)



NOTE:
CONTRACTOR SHALL ASSURE PERCOLATION OF ALL PLANTING PITS PRIOR TO INSTALLATION.

7 TREE PLANTING (65-100 GAL.)

NTS P-HU-38

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Hubert Avenue Park & Right-Of-Way Improvements

4106, 4108, & 4110 N. Hubert Ave + 4115 N. Manhattan Ave
Tampa, Florida

Seal

BID SET

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Date:	**MAY 15, 2026**
Job No.:	**8702**
Drawn By:	**GLA**
Checked By:	**CJA**

Sheet Title

LANDSCAPE DETAILS

Sheet No.

LP501

LANDSCAPE NOTES

1. PLANS HAVE BEEN PREPARED ON DATA PROVIDED BY THE PROJECT SURVEY, ENGINEER AND/OR ARCHITECT AND ARE ONLY AS ACCURATE AS THE DATA PROVIDED BY ANOTHER PROFESSIONAL. THE LANDSCAPE ARCHITECT SHALL NOT BE RESPONSIBLE FOR FIELD DISCREPANCIES OCCURRING DUE TO ERRORS, INACCURACIES AND/OR OMISSIONS IN THE BASE INFORMATION PROVIDED BY OTHERS OR CANNOT BE HELD RESPONSIBLE FOR SAME DUE TO DATA NOT PROVIDED PRIOR TO THE PREPARATION OF THE LANDSCAPE ARCHITECTURAL PLANS IN A TIMELY MANNER.
2. CONTRACTOR SHALL FIELD VERIFY ALL INFORMATION, INCLUDING UNDERGROUND UTILITIES, PRIOR TO INITIATING PLANTING AND IRRIGATION INSTALLATION. REPORT ANY DISCREPANCIES BETWEEN THE CONSTRUCTION DRAWINGS AND FIELD CONDITIONS TO THE OWNER'S REPRESENTATIVE AND LANDSCAPE ARCHITECT IMMEDIATELY. FIELD ADJUST LOCATION OF PLANT MATERIAL AND/OR IRRIGATION AS NECESSARY TO AVOID DAMAGE TO ALL EXISTING UNDERGROUND UTILITIES AND/OR EXISTING ABOVE GROUND ELEMENTS. ALL CHANGES SHALL BE COMPLETED AT THE CONTRACTORS EXPENSE AND SHALL BE COORDINATED WITH THE OWNER'S REPRESENTATIVE AND THE LANDSCAPE ARCHITECT.
3. CONTRACTOR TO VERIFY PROPERTY LINES AND SETBACKS PRIOR TO CONSTRUCTION. CONTRACTOR SHALL STAKE AND LOCATE THE PROPERTY LINES AND SHALL VERIFY PLAN DIMENSIONS AND FIELD CONDITIONS ARE CONSISTENT. CONTRACTOR SHALL VERIFY THESE PLANS ARE THE MOST UP TO DATE AND THAT THEY HAVE BEEN APPROVED AND ACCEPTED BY THE OWNER BEFORE COMMENCING CONSTRUCTION.
4. ALL CONSTRUCTION SHALL CONFORM TO MEET ALL FEDERAL, STATE, AND LOCAL CODES, REGULATIONS AND ORDINANCES THAT HAVE JURISDICTION OVER THE PROJECT WITHOUT ADDITIONAL COST TO OWNER. CONTRACT SHALL ABIDE BY THE SAFETY STANDARDS OF THE OCCUPATIONAL SAFETY AND HEALTH ACT AND AMENDMENTS. THE OWNER, OWNER'S REPRESENTATIVE, AND LANDSCAPE ARCHITECT SHALL BE HELD HARMLESS FROM ANY ACCIDENT, INJURY OR ANY OTHER INCIDENT RESULTING FROM COMPLIANCE OR NON-COMPLIANCE WITH THESE STANDARDS. CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE FEDERAL AND STATE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) STANDARDS, ANSI Z133, AND APPLICABLE STATE AND LOCAL LAWS AND REGULATIONS.
5. IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO NOTIFY "SUNSHINE" AND ANY OTHER INTERESTED AGENCIES OR PARTIES OF HIS INTENT TO EXCAVATE AND TO OBTAIN FROM ALL AGENCIES OR OTHER INTERESTED PARTIES LOCATIONS OF ALL EXISTING UTILITIES OF EVERY KIND IN THE AREAS WHERE HE INTENDS OR PLANS TO EXCAVATE. SUCH LOCATIONS SHALL BE OBTAINED PRIOR TO STARTING CONSTRUCTION AND SHALL BE MAINTAINED DURING CONSTRUCTION.
6. CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS PRIOR TO CONSTRUCTION AND THE COST FOR SUCH ARE TO BE INCLUDED AS PART OF THE BID. UNLESS STIPULATED SPECIFICALLY BY THE OWNER, ANY APPLICABLE FEES OR FINANCIAL REQUIREMENTS ARE TO BE PAID BY THE CONTRACTOR FOR ALL REQUIRED PERMITS FOR ANY INSTALLATION OR CONSTRUCTION WORK DESCRIBED IN THESE DOCUMENTS.
7. CONTRACTOR SHALL BE RESPONSIBLE TO REMOVE ALL EXISTING GRASSES, GROUNDCOVERS, AND SHRUBS WHERE NEW PLANTINGS ARE PROPOSED. CONTRACTOR SHALL VERIFY ALL PLANT MATERIAL OR ITEMS TO BE REMOVED AND/OR PROTECTED ITEMS WITH OWNER'S REPRESENTATIVE PRIOR TO BID. THIS MAY INCLUDED BUT NOT BE LIMITED TO: SOD, SOIL, PLANT MATERIAL, STUMPS, ETC. CONTRACTOR SHALL BE RESPONSIBLE TO REPLACE ANY TREES DAMAGED WITH SAME SPECIES AND SIZE TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE AND GOVERNING AGENCY. THE WORK DESCRIBED IN THESE DRAWINGS INCLUDES THE FURNISHING OF ALL MATERIALS, EQUIPMENT AND LABOR NECESSARY AND INCIDENTAL TO THE INSTALLATION AND PREPARATION OF PLANTING AREAS, SOIL TREATMENT, PLANTS, LAWN AREAS, PROTECTION OF EXISTING AND PROPOSED PLANTS, HAULING AND SPREADING OF TOPSOIL (INCLUDING IMPORTATION, AMENDING, AND PREPARATION), FINISH GRADING, REMOVAL AND / OR TRANSPLANTING OF EXISTING PLANTS AS INDICATED, WARRANTY, REPLACEMENT OF REJECTED PLANTS AND/OR MATERIALS, AND ALL RELATED ITEMS AS REQUIRED TO COMPLETE THE WORK AS INDICATED ON THE PLANS AND FULLFILLING ALL WARRANTY PROVISIONS DESCRIBED HEREIN.
8. LANDSCAPE CONTRACTOR SHALL COORDINATE ALL WORK WITH RELATED CONTRACTORS AND WITH THE GENERAL CONSTRUCTION OF THE PROJECT IN ORDER NOT TO IMPEDE THE PROGRESS OF THE WORK OF OTHERS OR THE CONTRACTOR'S OWN WORK.
9. THE OWNER OR LANDSCAPE ARCHITECT (AT ANY TIME PRIOR TO FINAL ACCEPTANCE) SHALL HAVE THE RIGHT TO REJECT ANY AND ALL WORK AND MATERIALS WHICH, IN HIS OPINION, DO NOT MEET THE REQUIREMENTS OF THE PLANTING PLAN, DETAILS, AND THESE SPECIFICATIONS. IT IS THE CONTRACTORS RESPONSIBILITY TO HAVE PLANT MATERIAL INSPECTED PRIOR TO PLANTING. LANDSCAPE ARCHITECT RESERVES THE RIGHT TO REJECT PLANTS AFTER DELIVERY AND AT PROJECT COMPLETION.
10. THE LANDSCAPE CONTRACTOR SHALL FIELD VERIFY THE LOCATION OF ALL WORK AS SHOWN ON THE PLAN AND CONTACT THE LANDSCAPE ARCHITECT IMMEDIATELY OF ANY CONFLICTS AND ADJUST AS PER THE LANDSCAPE ARCHITECT'S OR OWNER'S DIRECTION.
11. THE LANDSCAPE CONTRACTOR SHALL CONTROL RUNOFF AND EROSION DURING CONSTRUCTION THROUGH THE USE OF SEDIMENT BASINS, STRAW OR HAY BALES AS APPROPRIATE. THE LANDSCAPE CONTRACTOR SHALL SPRINKLE OR OTHERWISE MANUALLY APPLY WATER TO AFFECTED CONSTRUCTION AREA TO CONTROL BOTH SIGNIFICANT WIND EROSION AND FUGITIVE DUST.
12. THE LANDSCAPE CONTRACTOR SHALL ASSURE DRAINAGE AND PERCOLATION OF ALL PLANTING PITS AND LANDSCAPE AREAS PRIOR TO INSTALLATION OF PLANT MATERIAL. FOR PERCOLCATION TESTING, A 24" DEEP HOLD HOLE SHALL BE FILLED WITH WATER UNTIL IT DRAINS COMPLETELY. THE HOLE SHALL IMMEDIATELY BE FILLED AGAIN WITH WATER. IF WATER TAKES MORE THAN 15 MINUTES TO DRAIN, CONTRACTOR SHALL CONSULT WITH LANDSCAPE ARCHITECT TO DETERMINE THE APPROPRIATE REMEDIATION. CORRECT IF REQUIRED TO ASSURE PERCOLATION. CONTRACTOR IS RESPONSIBLE FOR REPLACEMENT OF ALL PLANTS DUE TO INADEQUATE DRAINAGE CONDITIONS. ALL SOIL SHALL BE OF A WELL-DRAINING NATURE.
13. EXCEPT FOR PLANTINGS IN SURFACE WATER MANAGEMENT AREAS, THE SPECIFIED DEPTH OF ORGANIC MULCH, MEASURED AFTER WATERING-IN, SHALL BE PLACED AND MAINTAINED AROUND ALL NEWLY INSTALLED CANOPY TREES, ACCENT TREES, PALM TREES, AND SHRUBS. EACH TREE SHALL HAVE ORGANIC MULCH NO LESS THAN 36 INCHES BEYOND ITS TRUNK IN ALL DIRECTIONS; HOWEVER, THE MULCH SHALL BE KEPT AWAY FROM THE TRUNKS AND STEMS OF PLANTS SO AS TO AVOID CONDITIONS THAT MAY BE CONDUCIVE TO COLLAR ROT, BASAL CANKER OR OTHER FUNGI. EXISTING TREES THAT ARE PROPOSED TO REMAIN SHALL ALSO HAVE THE SAME MULCH TREATMENT.
14. THE LANDSCAPE CONTRACTOR SHALL EXAMINE THE SOILS OF ALL PLANTING AREAS PRIOR TO SUBMITTING BIDS FOR THE SUITABILITY TO SUSTAIN HEALTHY PLANT GROWTH AS CALLED FOR ON THE PLANTING PLAN, DETAILS, AND THESE SPECIFICATIONS. ANY REQUIRED AMENDMENTS AND ADDITIVES SHALL BE INCLUDED AS PART OF THE BID.
15. NO SUBSTITUTIONS SHALL BE MADE TO THE PLANTING PLAN, DETAILS OR THESE SPECIFICATIONS WITHOUT THE EXPRESSED WRITTEN CONSENT OF THE LANDSCAPE ARCHITECT.
16. GUYING / STAKING PRACTICES SHALL NOT PERMIT NAILS, SCREWS, WIRES, ETC., TO PENETRATE OUTER SURFACE OF TREE OR PALM. TREES OR PALMS REJECTED DUE TO THIS PRACTICE SHALL BE REPLACED WITH INSPECTOR ON SITE.
17. TREE INSTALLATION: ALL REQUIRED TREES SHALL BE INSTALLED 1"-2" ABOVE FINISHED GRADE. TREES INSTALLED OR BURIED TOO DEEPLY SHALL BE RESET TO THIS STANDARD. REMOVE THE TOP 1/3 OF THE WIRE BASKET ON ALL B&B TREE STOCK.
18. LANDSCAPE, IRRIGATION, AND TREE PROTECTION IMPLEMENTATION AND SPECIFICATIONS SHALL BE GOVERNED UNDER THE AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI) A-300 (PART 1 - PART 9), THE COMPANION BEST MANAGEMENT PRACTICES, ANSI Z-133, LOCAL GOVERNING JURISDICTIONS AND ORDINANCES, AND FLORIDA TREES CODES. ALL TREE TRIMMING SHALL BE IN ACCORDANCE WITH THE AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI) A-300 PRUNING STANDARDS.
19. PLANT MATERIAL
    - 19.1. ALL TREES, PALMS, SHRUBS, GROUND COVERS AND OTHER PLANTS SHALL CONFORM TO THE STANDARD OF FLORIDA NO. 1 OR BETTER AS GIVEN IN THE LATEST EDITION OF GRADES AND STANDARDS FOR NURSERY PLANTS BY FLORIDA DEPARTMENT OF AGRICULTURE, PART I AND II. PLANT MATERIAL SHALL ALSO CONFORM TO THE AMERICAN ASSOCIATION OF NURSERYMEN, INC. (ANSI) BULLETIN Z 60.1 - 1990 AND AS REVISED. ALL PLANTS MUST BE HEALTHY, VIGOROUS MATERIAL, FREE OF PESTS AND DISEASE.
    - 19.2. ALL CONTAINER AND CALIPER SIZES NOTED ON PLANT LIST ARE MINIMUM. CONTRACTOR SHALL PROVIDE LARGER CONTAINER MATERIAL IF NECESSARY, AT NO COST TO OWNER, TO CONFORM TO PLANT SIZE AND SPECIFICATIONS. BOTH MINIMUM DIMENSIONAL SPECIFICATION AND MINIMUM CONTAINER SPECIFICATION SHALL BE MET.
    - 19.3. ALL PLANTS SHALL BE CONTAINER GROWN EXCEPT AS NOTED ON PLAN. BARE ROOT TREES ARE NOT ACCEPTABLE. ALL PLANTS SHALL BE HARDY UNDER CLIMATIC AND LIGHT CONDITIONS SIMILAR TO THOSE IN THE LOCALITY OF THE PROJECT AND THE SITE. TREES GROWN IN GROW BAGS OR GROW BAG TYPE MATERIAL MUST HAVE THE GROW BAG REMOVED ENTIRELY PRIOR TO PLANTING. BALLED AND BURLAPPED MATERIAL SHALL HAVE THE BURLAP REMOVED. WIRE CAGES, STRAPS, ETC. MUST BE CUT AND REMOVED PRIOR TO INSTALLATION.
    - 19.4. SOD SHALL MEET AMERICAN SOD PRODUCERS ASSOCIATION STANDARDS FOR NURSERY GROWN SOD FOR THICKNESS OF CUT, PAD SIZE, STRENGTH OF SECTIONS, MOISTURE CONTENT AND THATCH. SOD SHALL BE GUARANTEED TO BE UNIFORM IN COLOR, LEAF TEXTURE, AND SHOOT DENSITY AND FREE OF WEEDS, DISEASE, FUNGUS, INSECTS OR OTHER IMPERFECTIONS AND SUFFICIENTLY KNITTED TO SUSTAIN GROWTH. SOD SHALL BE MOWED FOR FINAL ACCEPTANCE.
    - 19.5. TYPICALLY, SHRUB AND GROUNDCOVER PLANTINGS ARE SHOWN AS MASS PLANTING BEDS. PLANTS SHALL BE PLACED ON A TRIANGULAR SPACING CONFIGURATION (STAGGERED SPACING).
20. QUANTITIES, LOCATION AND SUBSTITUTIONS: THE LANDSCAPE CONTRACTOR SHALL FURNISH AND INSTALL ALL PLANTS AS SHOWN ON THE DRAWINGS, AS SPECIFIED, AND IN THE QUANTITIES LISTED ON THE PLANT SCHEDULE. IN THE EVENT OF A VARIATION BETWEEN THE PLANT SCHEDULE AND THE ACTUAL NUMBER OF PLANTS SHOWN ON THE PLANTING PLAN, THE HIGHER QUANTITY SHALL PREVAIL.THE LANDSCAPE ARCHITECT RESERVES THE RIGHT TO ADJUST THE NUMBER AND LOCATIONS OF THE DESIGNATED TYPES AND SPECIES OF PLANTS TO BE USED AT ANY OF THE LOCATIONS SHOWN. THE OWNER SHALL RECEIVE A CREDIT OR DEBIT FOR THE UNIT PRICE OF THE PLANT MATERIAL. NO SUBSTITUTION OF PLANT MATERIAL, TYPES, SPECIFICATIONS OR SIZES WILL BE PERMITTED WITHOUT WRITTEN AUTHORIZATION FROM THE LANDSCAPE ARCHITECT. THE OWNER AND/OR LANDSCAPE ARCHITECT RESERVES THE RIGHT TO NOT ACCEPT PLANT MATERIAL THAT DOES NOT, IN THE OPINION OF THE OWNER AND/OR LANDSCAPE ARCHITECT, MEET THE SPECIFICATIONS HEREIN.
21. IRRIGATION: UNLESS SPECIFICALLY NOTED OTHERWISE, ALL EXISTING AND PROPOSED TREES, SHRUBS, AND GROUNDCOVERS SHALL BE IRRIGATED WITH AN AUTOMATIC, UNDERGROUND IRRIGATION SYSTEM. SYSTEM SHALL BE EQUIPPED WITH A RAIN SENSOR DEVICE CONNECTED TO AN IRRIGATION CONTROLLER(S), AS PER STATE OF FLORIDA REGULATIONS. AFTER PLANT ESTABLISHMENT, THE CONTROLLER SHALL BE PROGRAMMED TO OPERATE IN COMPLIANCE WITH APPLICABLE WATERING RESTRICTIONS. IRRIGATION SHALL PROVIDE 100% COVERAGE TO PROPOSED LANDSCAPING AREAS AND SOD AREAS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING, AND PERMITTING THE IRRIGATION SYSTEM IN ACCORDANCE WITH APPLICABLE LOCAL AND STATE BUILDING CODES. THE COST OF INSTALLATION, PERMITTING, AND CREATING AS-BUILT DRAWINGS SHALL BE INCLUDED IN THE BID PRICE FOR IRRIGATION.
    - 21.1. LANDSCAPE CONTRACTOR SHALL COORDINATE ALL PLANTING WORK WITH IRRIGATION WORK. LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL HAND WATERING ALL EXISTING AND PROPOSED PLANT MATERIAL AS REQUIRED BY OWNER'S REPRESENTATIVE TO SUPPLEMENT IRRIGATION WATERING AND RAINFALL. LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR HAND WATERING IN ALL PLANTING AREAS, REGARDLESS OF THE STATUS OF EXISTING OR PROPOSED IRRIGATION. CONTRACTOR SHALL TEMPORARILY WATER ANY NON IRRIGATED LAWN AREAS AS REQUIRED FOR ESTABLISHMENT.
    - 21.2. IRRIGATION LINES SHALL BE HAND DUG AROUND EXISTING TREES AND TUNNELED BENEATH TREE ROOTS OF EXISTING TREES, RATHER THAN TRENCHED.
    - 21.3. TREE BUBBLERS,TURF ZONES AND SHRUB/GROUNCOVER ZONES SHALL BE ON SEPARATE ZONES. SEE IRRIGATION SHEETS FOR ADDITIONAL REQUIREMENTS.
22. FERTILIZATION: PROVIDE FERTILIZER UNIFORM IN COMPOSITION, DRY, AND IN A FREE FLOWING CONDITION FOR APPLICATION BY SUITABLE EQUIPMENT, AND DELIVER IN UNOPENED BAGS OR CONTAINERS, EACH FULLY LABELED.
    - 22.1. CONTRACTOR SHALL CONDUCT A SOIL TEST PRIOR TO APPLICATION OF ANY SOIL AMENDMENTS, FERTILIZERS AND BACKFILL MIXTURES. FERTILIZE LANDSCAPE PLANTS AND TURF COMPLYING WITH STATE AND LOCAL FERTILIZER LAWS AND CODES AND AT A RATE AS RECOMMENDED BY THE SOIL TEST.
    - 22.1. FERTILIZE TREES, SHRUBS, AND GROUND COVERS WITH A COMPLETE, ORGANIC, SLOW-RELEASE, FERTILIZER.
    - 22.2. FERTILIZE TURF WITH A COMPLETE, ORGANIC, SLOW-RELEASE, FERTILIZER. PROVIDE AT LEAST 50% OF THE PHOSPHORIC ACID FROM NORMAL SUPER PHOSPHATE OR AN EQUIVALENT SOURCE PROVIDING A MINIMUM OF TWO UNITS OF SULFUR. THE AMOUNTS OF SULFUR AND ALL OTHER CHEMICAL SHALL BE INDICATED ON THE QUANTITATIVE ANALYSIS CARD ATTACHED TO THE UNOPENED BAG.
23. SOIL PREPARATION AND SOIL MIX
    - 23.1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE, PRIOR TO BID, THE QUANTITY OF SOIL, BACKFILL, AND AMENDMENTS REQUIRED TO MEET THE PROJECT REQUIREMENTS AND THE CONTRACT DOCUMENTS SOIL SPECIFICATIONS. CONTRACTOR SHALL TEST THE EXISTING SOILS AS OUTLINED IN CONTRACT DOCUMENTS. CONTRACTOR SHALL REVIEW EXISTING SOIL ON SITE, THE PROJECT TOP SOIL SPECIFICATIONS, AND EVALUATE IF EXISTING SOILS WILL BE USED AND/OR AMENDED AND WHETHER IMPORTED TOP SOIL IS REQUIRED ON THE PROJECT BASED ON THE CONTRACT DOCUMENTS SOIL SPECIFICATIONS, RECOMMENDED LAB SOIL TEST RESULTS, AND THE CONTRACTOR'S MEANS AND METHODS OF CONSTRUCTION. REGARDLESS OF THE CONTRACTOR'S MEANS AND METHODS, ALL SOIL SHALL MEET THE PROJECT SPECIFICATIONS OUTLINED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL ASSUME THE EXPENSE OF MEETING THE SOIL SPECIFICATIONS ON THE PROJECT AND DETERMINE THE QUANTITY OF IMPORTED TOP SOIL, QUANTITY OF USABLE ONSITE TOP SOIL, AND DETERMINE REQUIRED AMENDMENTS AND/OR MODIFICATIONS TO THE SOIL TO MEET THE PROJECT'S SPECIFICATIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS REQUIRED TO CONFORM TO THE PROJECT'S SOIL REQUIREMENTS AND SOIL ADJUSTMENTS.
    - 23.2. CONTRACTOR SHALL TEST SOILS BY OBTAINING FIVE (5) OR MORE SAMPLES OF THE EXISTING SOILS PROPOSED FOR PLANTING FROM ANY STRIPPING STOCKPILES OR AREAS TO RECEIVE PLANTINGS AFTER ROUGH GRADING. CONFIRM LOCATIONS WITH LANDSCAPE ARCHITECT PRIOR TO COLLECTING SAMPLES. SOIL TEST SHALL BE PERFORMED IN ACCORDANCE WITH STATE AND LOCAL RECOMMENDATIONS AND LAWS AND SHALL BE PERFORMED BY A STATE ACCREDITED LAB FOR AGRICULTURAL SOIL TESTING. A COMPLETE SOIL TEST REPORT SHALL BE PROVIDED OF THE CHEMICAL ANALYSIS INDICATING NUTRIENT COMPOSITION, PH, AND PHYSICAL ANALYSIS OF SOIL TEXTURE IN ORDER TO PROVIDE REQUIRED AMENDMENTS TO MEET THE PROJECT SPECIFICATIONS FOR SOIL AND BACKFILL MIX. SOIL TEST SHALL INCLUDE THE LAB'S RECOMMENDATIONS. CONTRACTOR SHALL PROVIDE AN PROPOSED BACKFILL MIX SAMPLE ALONG WITH SPECIFICATIONS OF PROPOSED MIX, MATERIAL DATA SHEETS, TEST RESULTS FOR ORGANIC MATERIAL, FERTILIZERS, PLUS ANY AMENDMENTS REQUIRED TO BRING THE EXISTING SOILS TO SPECIFICATION AND IN ACCORDANCE WITH THE LABS RECOMMENDATIONS.
    - 23.3. CONTRACTOR SHALL PERFORM A PROCTOR DENSITY TEST AND SOIL COMPOSITION TEST PRIOR TO INSTALLATION OF LANDSCAPE AND IRRIGATION WORK. IF COMPACTION EXCEEDS 80% OR SOILS ARE OF AN ANAEROBIC NATURE THEN CONTRACTOR SHALL REMEDIATE BY BY LOOSENING THE SOILS AND RECOMPACT SOILS TO 75%-80% MAXIMUM. CONTRACTOR SHALL PERFORM A PERCOLATION TEST FOR POSITIVELY DRAINING SOILS IN ALL LANDSCAPE AREAS.
    - 23.4. CONTRACTOR TO ENSURE TOTAL WEED ERADICATION. ANY HERBICIDE OR PEST CONTROL TREATMENT APPLIED SHALL BE BY A STATE CERTIFIED PEST AND CONTROL OPERATOR OF LAWN AND ORNAMENTAL. APPROVED HERBICIDE SHALL BE APPLIED ACCORDING TO MANUFACTURER'S RATE AND SPECIFICATION WITHIN LIMITS OF ALL AREAS TO BE PLANTED. PROTECT EXISTING PLANTS TO REMAIN FROM OVERSPRAY OR SPRAY WITHIN ROOT ZONE. A LICENSED PEST AND CONTROL OPERATOR OF LAWN AND ORNAMENTAL SHALL APPLY APPROVED PRE-EMERGENT HERBICIDE IN ACCORDANCE WITH THE MANUFACTURER'S RATE AND SPECIFICATIONS.
    - 23.5. PLANTING LAWNS: REMOVE ANY EXISTING SUB-BASE OR COMPACTED MATERIALS TO EXPOSE A FRIABLE SOIL LAYER. LOOSEN SOIL/TOPSOIL OF LAWN AREAS TO MINIMUM DEPTH OF 6". ADD 3" TOPSOIL OR ORGANIC MATERIAL AS REQUIRED FROM ORGANIC MATTER CHECK. TILL INTO TOP 6" OF EXISTING SOIL. SEE LANDSCAPE PLANS FOR LOCATION OF LANDSCAPE BEDS AND SOD AREAS. IF NECESSARY, THE GENERAL CONTRACTOR AND LANDSCAPE CONTRACTOR SHALL COORDINATE THE INSTALLATION AND GRADING OF TOPSOIL. SEE SPECIFICATIONS FOR BACKFILL MIXTURE.
    - 23.6. FINISH GRADE ALL PREPARED TOPSOIL AREAS TO A SMOOTH, EVEN SURFACE ASSURING POSITIVE DRAINAGE AWAY FROM THE STRUCTURES AND ELIMINATE ANY LOW AREAS WHICH MAY COLLECT WATER. SEE CIVIL GRADING PLANS.
    - 23.7. BACKFILL MIXTURE:
        - 23.0.1. PRIOR TO BID, CONTRACTOR SHALL DETERMINE THE NEED FOR IMPORTED TOPSOIL AND INCLUDE IN BID IF NECESSARY. IF EXISTING ONSITE TOPSOIL IS USED AND/OR AMENDED, IT SHALL ALSO MEET THE PROJECT SPECIFICATIONS.
        - 23.0.2. TREES, ROYAL PALMS, SHRUBS, GROUNDCOVERS, LAWNS: 45% SAND, 45% TOPSOIL, 10% PEAT HUMUS.
        - 23.0.3. ALL OTHER PALMS: 3/4 SAND, 1/4 TOPSOIL
        - 23.0.4. SAND SHALL BE CLEAN, SILICA, SALT-FREE AND CONTAINING NO EXTRANEOUS MATTER.
        - 23.0.5. 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 BE FRIABLE FERTILE SOIL WITH REPRESENTATIVE CHARACTERISTICS OF AREA SOILS. IT SHOULD BE FREE OF HEAVY CLAY, SILT, STONE, EXCESS LINE, SHELL ROCK, PLANT ROOTS, WEEDS, DEBRIS OR OTHER FOREIGN MATTER. IT SHALL NOT CONTAIN NOXIOUS PLANT GROWTH (SUCH AS BERMUDA, TORPEDO OR NUT GRASS). IT SHALL TEST BETWEEN THE PH RANGE OF 5.5 TO 7.0 UNLESS OTHERWISE SPECIFIED AND CONTAIN NO TOXIC RESIDUE OR SUBSTANCES THAT WOULD ENDANGER PLANT GROWTH. OBTAIN TOPSOIL ONLY FROM NATURALLY, WELL-DRAINED SITES WHERE TOPSOIL OCCURS IN A DEPTH NOT LESS THAN 4".
            - 23.0.5.1. SOIL AMENDMENTS: SOIL TESTING SHALL BE PERFORMED IN ALL PLANTING AREAS (INCLUDING SODDED AREAS) PRIOR TO CONSTRUCTION WITH RESULTS SUBMITTED TO LANDSCAPE ARCHITECT. SOIL AMENDMENTS SHALL BE ADDED AS NECESSARY PER THE LAB RESULT RECOMMENDATIONS AND TO MEET THE FOLLOWING PARAMETERS:
                - 23.0.5.1.1. PH RANGE: 5.5-7.0
                - 23.0.5.1.2. ORGANIC MATTER: 2.0-5.0%
                - 23.0.5.1.3. SOLUBLE SALT LEVEL: LESS THAN 2 MMHO/CM.
                - 23.0.5.1.4. SOIL CHEMISTRY SUITABLE FOR GROWING THE PLANTS SPECIFIED.
        - 23.0.6. PEAT HUMUS SHALL BE DECOMPOSED PEAT WITH NO IDENTIFIABLE FIBERS OR IF AVAILABLE, MUCK MAY BE SUBSTITUTED AND SHALL BE FREE FROM STONES, EXCESSIVE PLANT ROOTS, DEBRIS OR OTHER FOREIGN MATTER. MUCK SHALL NOT BE OVERLY SATURATED WITH WATER. HUMUS SHALL BE OF GOOD QUALITY, MATURE, DARK COLOR, OF HUMUS-LIKE QUALITY, AND HAVE PLEASANT SOIL SMELL.
        - 23.0.7. BACKFILL MIX SAMPLES AND LABORATORY SOIL TESTS SHALL BE SUBMITTED TO THE LANDSCAPE ARCHITECT OF RECORD FOR APPROVAL. CONTRACTOR SHALL TAKE RESPONSIBILITY FOR PERFORMING PERCOLATION TESTS PRIOR TO BACKFILLING WITH APPROVED PLANTING SOIL.
24. SOD INSTALLATION: LAY SOD TO FORM A SOLID MASS WITH TIGHTLY-FITTED JOINTS. BUTT ENDS AND SIDES OF SOD STRIPS. DO NOT OVERLAY EDGES. STAGGER STRIPS TO OFFSET JOINTS IN ADJACENT COURSES. REMOVE EXCESS SOD TO AVOID SMOTHERING OF ADJACENT GRASS. PROVIDE SOD PAD TOP FLUSH WITH ADJACENT CURBS, SIDEWALKS, DRAINS AND SEED AREAS.
    - 24.1. DO NOT LAY DORMANT SOD OR INSTALL SOD ON SATURATED SOIL.
    - 24.2. INSTALL INITIAL ROW OF SOD IN A STRAIGHT LINE, BEGINNING AT BOTTOM OF SLOPES, PERPENDICULAR TO DIRECTION OF THE SLOPED AREA. PLACE SUBSEQUENT ROWS PARALLEL TO AND LIGHTLY AGAINST PREVIOUSLY INSTALLED ROW.
    - 24.3. PEG SOD ON SLOPES GREATER THAN 3 TO 1 TO PREVENT SLIPPAGE AT A RATE OF 2 STAKES PER YD. OF SOD.
    - 24.4. WATER SOD THOROUGHLY WITH A FINE SPRAY IMMEDIATELY AFTER LAYING.
    - 24.5. ROLL WITH LIGHT LAWN ROLLER TO ENSURE CONTACT WITH SUBGRADE.
    - 24.6. SOD INDICATED AREAS WITHIN CONTRACT LIMITS AND AREAS ADJOINING CONTRACT LIMITS DISTURBED AS A RESULT OF CONSTRUCTION OPERATIONS.
    - 24.7. TOP DRESS ALL SEAMS OF SODDED AREA WITH SPECIFIED TOPSOIL.
25. MULCH: ALL MULCH BED QUANTITIES TO BE DETERMINED BY CONTRACTOR. CONTRACTOR SHALL MULCH ALL PLANT MATERIAL THROUGHOUT AND COMPLETELY TO A THREE (3) INCH DEPTH WITH CLEAN, WEED FREE, ORGANIC SHREDDED WOOD MULCH. CYPRESS MULCH SHALL NOT BE USED. PLANT BEDS WITHIN STORMWATER BASINS SHALL BE MULCHED WITH PINE STRAW MULCH, THREE (3) INCH DEPTH.
26. TREE PROTECTION: PROTECT ALL TREES AND PALMS TO REMAIN WITH TREE BARRICADES. IMMEDIATELY FOLLOWING VEGETATION REMOVAL, EXISTING SLOPES GREATER THAN 3 TO 1 SHALL BE PROTECTED FROM EROSION AS REQUIRED BY LOCAL CODE. THE FOLLOWING ACTIVITIES ARE PROHIBITED WITHIN THE BARRICADED AREA: VEHICULAR AND PEDESTRIAN TRAFFIC; STORAGE OF CONSTRUCTION MATERIALS; PLACEMENT OF EXCAVATED MATERIALS OR TRASH; AND ANY ACTIVITIES THAT MAY DISTURB THE ROOT SYSTEM WITHIN THE BARRICADED AREA.
    - 26.1. ALL REQUIRED TREE REMOVAL OR RELOCATION PERMITS SHALL BE PROCURED BY CONTRACTOR, PRIOR TO COMMENCEMENT OF WORK.
    - 26.2. ALL PROTECTED TREES SHALL BE TRIMMED IN A MANNER CONSISTENT WITH THE "AMERICAN NATIONAL STANDARD FOR TREE CARE OPERATIONS, ANSI, A300, CURRENT EDITION."
27. MAINTENANCE: THE CONTRACTOR IS RESPONSIBLE FOR COMPLETE MAINTENANCE OF ALL PROPOSED PLANTING AREAS (INCLUDING WATERING, SPRAYING, MULCHING, MOWING, FERTILIZING, ETC.) THROUGHOUT THE ENTIRE COURSE OF THE PROJECT. LANDSCAPE CONTRACTOR SHALL CLEAN THE WORK AREAS AT THE END OF EACH WORKING DAY. RUBBISH AND DEBRIS SHALL BE COLLECTED AND DEPOSITED OFF-SITE DAILY. ALL MATERIALS, PRODUCTS, AND EQUIPMENT SHALL BE STORED IN AN ORGANIZED FASHION AS DIRECTED BY OWNER'S REPRESENTATIVE. AT FINAL ACCEPTANCE, CONTRACTOR SHALL PROVIDE A WRITTEN ONE YEAR MAINTENANCE AND MONITORING SCHEDULE OF THE LANDSCAPE AND IRRIGATION TO THE OWNER.
28. FINAL ACCEPTANCE: CONTRACTOR TO REQUEST INSPECTION OF PROJECT IN WRITING. IF ALL WORK IS SATISFACTORY AND COMPLETE IN ACCORDANCE WITH CONDITIONS OF CONTRACT DOCUMENTS, THEN THE OWNER AND LANDSCAPE ARCHITECT SHALL DECLARE SUBSTANTIALLY COMPLETE. SUBSTANTIAL COMPLETION CONSTITUTES THE BEGINNING OF THE WARRANTY/GUARANTEE PERIOD.
29. WARRANTY / GUARANTEE PERIOD: CONTRACTOR TO WARRANT AND GUARANTEE PLANT MATERIAL FOR A ONE (1) YEAR PERIOD FOLLOWING DATE OF SUBSTANTIAL COMPLETION. PRIOR TO ISSUING SUBSTANTIAL COMPLETION NOTICE THE CONTRACTOR SHALL SUBMIT TO THE OWNER COPIES OF AS BUILT PLANS / DOCUMENTS AND 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. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING ALL TREE STAKES AND GUY WIRES FROM TREES WHICH ARE ESTABLISHED AT THE END OF ONE (1) YEAR GUARANTEE PERIOD. TREES WHICH HAVE BEEN REPLACED SHALL REMAIN STAKED FOR ONE (1) FULL GROWING SEASON, AND THE OWNER SHALL BE RESPONSIBLE FOR REMOVING TREE STAKES AND GUY WIRES.

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Hubert Avenue Park & Right-Of-Way Improvements

**4106, 4108, & 4110 N. Hubert Ave + 4115 N

LANDSCAPE SPECIFICATIONS

SECTION - TREES, PLANTS AND GROUNDCOVERS

PART 1 - GENERAL

1.1 WORK INCLUDED

A. Furnish all materials, equipment and labor as necessary for preparation of planting areas, soil treatment, planting of trees, shrubs, and groundcovers, protection of plants, maintenance, guarantee and replacement of plants, and related items as required to complete the work as indicated on the drawings and specified herein.

1.2 RELATED DOCUMENTS

A. Section: Planting Irrigation

B. Section: Sodding

1.3 DEFINITIONS

The following words and terms or pronouns used instead shall wherever they appear in these specifications, be construed as follows, unless a different meaning is clear from the context:

"Final Acceptance" shall mean that point in time when all requirements of project drawings and specifications are completed, including any punchlist items, to the satisfaction of the Landscape Architect. The contractor shall be notified in writing of final acceptance by Owner's representative.

"Warranty Period" shall be a one year period beginning at Final Acceptance.

"Maintenance Period" shall begin when plant material is installed and continue for ninety (90) days after notification of Final Acceptance.

"Final Maintenance Inspection" shall occur at the end of the ninety (90) day maintenance period.

1.4 QUALITY ASSURANCE

A. The landscape installation shall be executed by a single firm specializing in landscape work.

B. Plant names indicated shall comply with "Standardized Plant Names" as adopted by the latest edition of the American Joint Committee of Horticultural Nomenclature. Names of varieties not listed shall conform generally with names accepted by the nursery trade. Provide stock true to botanical name and legibly tagged.

C. Comply with sizing and grading standards of the latest edition of "American Standard for Nursery Stock" (ANSI Z60 1) and, sizing and grading standards of the latest edition of"Grades and Standards for Nursery Plants: Part I and II" by the Florida Department of Agriculture and Consumer Services. All plant material shall be "Florida No. 1" or better.

1. Caliber measurement shall be taken six (6) inches above ground level if four (4) inches or less. If greater than 4 (four) inches, caliber measurement will be taken at twelve (12) inches above ground level.

D. Do not make substitutions. If specified landscape material is not obtainable submit to Owner's representative in writing, proof of non-availability and proposal for use of equivalent material. When authorized, adjustment of contract amount will be made.

E. All plants shall be nursery grown and 100% acclimatized to local planting conditions.

F. Stock furnished shall be at least the minimum size indicated. Larger stock is acceptable, at no additional cost, providing that the larger plants will not be cut back to size indicated or rootbound in pots. Provide plants indicated by two measurements so that only a maximum of 25% are of the minimum size indicated and 75% are of the maximum size indicated.

G. All trees shall be inspected and approved by Owner's representative for compliance with specification requirements for quality, size, and variety. When trees cannot be obtained locally, provide sufficient photographs of the proposed plants for approval.

1. Such approval shall not impair the right of inspection and rejection during the progress of the work.

H. Soil Testing / Amendments: Contractor shall conduct a soil test prior to application of any soil amendments, fertilizers and backfill mixtures. The results of the soil test shall be submitted to the owner's representative and landscape architect for review prior to the application of said material. Contractor shall examine the soils of all planting areas prior to submitting bids for the suitability to sustain healthy plant growth as called for on the planting plan, details, and these specifications. The contractor shall bear all costs of testing soils, amendments, etc. associated with the work and included in the specifications.

Submit certificates of inspection, as required by governmental authorities, and manufacturers or vendors certified analysis for soil amendments, herbicides, insecticides and fertilizer materials, submit other data substantiating that materials comply with specified requirements.

1.5 SUBMITTALS

A. Submit planting schedule showing scheduled dates for each type of planting in each area of site two weeks prior to beginning work.

B. Submit certificates of inspection, as required by governmental authorities, and manufacturers or vendors certified analysis for soil amendments, herbicides, insecticides and fertilizer materials, submit other data substantiating that materials comply with specified requirements.

C. Submit the following material samples:

1. Mulch
2. Topsoil with verification of sterilization and source.
3. One typical sample of each shrub and groundcover material as specified, prior to planting for approval.

a. Such approval shall not impair the right of inspection and rejection upon delivery at the site or during the progress of the work.

4. Soil Test and Recommended Amendments

D. Upon final acceptance of plant material, submit two (2) written maintenance instructions recommending procedures for maintenance of plant materials for a one year period.

E. Provide landscape planting as-built drawings:

1. Legibly mark drawings to record actual installation.
2. Identify field changes of dimension and detail and changes made by approving authority.

1.6 DELIVERY, STORAGE AND HANDLING

A. Deliver fertilizer materials in original, unopened, and undamaged containers showing weight, analysis, and name of manufacturer. Store in manner to prevent wetting and deterioration.

B. B&B Trees must be held and fully acclimatized over a period not less than eight (8) weeks prior to delivery to site.

C. Take all precautions customary in good trade practice in preparing plants for moving. Workmanship that fails to meet the highest standards will be rejected. Dig, pack, transport, and handle plants with care to ensure protection against injury. Inspection certificates required by law shall accompany each shipment invoice or order. Upon arrival the certificate shall be filed with the Owner's representative.

D. Protect all plants from drying out. If plants cannot be planted immediately upon delivery, properly protect them with soil, wet peat moss, or in a manner acceptable to the Owner's representative. Water heeled-in plantings daily. No plant shall be bound with rope or wire in a manner that could damage or break the branches.

E. Plant material that is stored improperly shall receive a special review of acceptance/rejection, established on a case by case basis.

F. Cover plants transported on open vehicles with a protective covering to prevent wind burn.

G. Topsoil shall be kept dry and loose for planting bed mixes.

H. Label at least one (1) tree and one (1) shrub of each variety with a securely attached waterproof tag bearing legible designation of botanical and common name.

I. Backfill mixture and topsoil shall be kept dry and loose for planting bed mixes.

1.7 JOB CONDITIONS

A. Work notification: Notify Owner's representative and landscape architect at least seven (7) working days prior to installation of plant material. All plant samples to be reviewed for approval prior to notification.

B. Protect existing utilities, paving, and other facilities from damage caused by landscaping operations. Notify any affected utilities 48 hours prior to beginning work.

C. A complete list of plants, including a schedule of sizes, quantities, and other requirements are shown on the drawings. In the event that quantity discrepancies or material omission occur in the plant materials list, the planting plans shall govern.

D. Examine the subgrade, verify the elevations, observe the conditions under which work is to be performed, and examine unsatisfactory conditions before proceeding with the work.

1. When conditions detrimental to plant growth are encountered such as rubble fill, adverse drainage conditions or obstructions, notify Owner's representative before planting to determine alternative action.
2. Contractor shall be responsible for the removal of existing vegetation deemed necessary by Owner's representative to carry out scope of project.

E. The irrigation system shall be installed prior to planting, if applicable. Locate, protect and maintain the irrigation system during planting operations. Repair irrigation system components, new and existing, damaged during planting operations with like materials. Test system prior to installation of plant material.

PART 2 - PRODUCTS

2.1 MATERIALS

A. Plants: Provide plants typical of their species or variety; with normal, densely developed branches and vigorous, fibrous root systems. Provide only sound, healthy vigorous plants free from defects, disfiguring knots, sunscald injuries, frost cracks, abrasion of the bark, plant diseases, insect eggs, borers, and all forms of infestation. All plants shall have a fully developed form without voids and open spaces.

1. All plant material shall be "Florida No.1", or better.
2. Dig balled and burlapped plants with firm, natural balls of earth of diameter and depth to encompass the fibrous and feeding root system necessary for full recovery of the plant. Provide ball sizes complying with the latest edition of the "American Standard for Nursery Stock". Cracked or mushroomed balls are not acceptable.
3. Container-grown stock: Grown in container for sufficient length of time for the root system to have developed to hold its soil together, firm and whole.

a. No plants shall be loose in the container.

b. Container stock shall not be pot bound.

4. Trees with included bark will not be accepted. Trees shall have a minimum of five (5) feet of trunk free from branching, unless otherwise specified.
5. Sanding of palm tree trunks will not be accepted. Palm tree fronds shall be tied up to protect bud from stress and damage. Fronds shall be tied with a material that will decompose naturally. DO NOT HURRICANE CUT PALMS. TRIM FRONDS ONLY.
6. Plants planted in rows shall be matched in form.
7. Plants larger than those specified in the plant list may be used when acceptable to the Owner's representative.

a. If the use of larger plants is acceptable, increase the spread of roots or root ball in proportion to the size of the plant.

8. The height of the trees, measured from the crown of the roots to the average height of the top of the tree, shall not be less than the minimum size designated in the plant list. Container size designated, if any, shall be minimum size required.
9. No pruning wounds shall be present with a diameter of more than 1" and such wounds must show vigorous bark on all edges.
10. Height and spread requirements, of shrub and groundcover material, indicated in the plant list are minimum specifications, unless otherwise specified. Container size designated, if any, shall be minimum size required.
11. Shrubs and small plants shall conform to the following standards:

a. The measurements for height shall be taken from the ground level to the average height of the top of the plant and not the longest branch.

b. Single stemmed or thin plants will not be accepted.

c. Side branches shall be generous, well-twigged, and the plant as a whole well-bushed to the ground, unless otherwise specified.

d. Plants shall be in a vigorous condition, free from dead wood, bruises, or other root or branch injuries.

12. Any plant material showing signs of shock will be judged on a case by case basis for acceptance or rejection.

2.2 ACCESSORIES

A. Refer to drawings and other portions of specifications for accessories specifically used on this project.

B. Backfill Mixture:

1. Trees, Royal Palms, Shrubs, and Groundcovers: 40-45% Coarse Sand, 45-50% Topsoil, 10% Peat
2. All Other Palms: 3/4 Sand, 1/4 Topsoil

C. Sand: Clean, silica, salt-free and containing to extraneous matter.

D. Topsoil: Free of deleterious materials that would be harmful to plant growth, shall be free of nematodes, shall be of uniform quality, and shall be friable fertile soil with representative characteristics of area soils. It shall be free of heavy clay, silt, stone, excess lime, shell rock, plant roots, weeds, debris or other foreign matter. It shall not contain noxious plant growth (such as Bermuda, Torpedo or Nut Grass). It shall test between the pH Range of 5.5 and 7.0 unless otherwise specified and contain no toxic residue or substances that would endanger plant growth. Obtain topsoil only from naturally, well-drained sites where topsoil occurs in a depth not less than 4".

1. Expressly identify source location of topsoil and/or peat proposed for use on the project.
2. Provide topsoil free of substances harmful to the plant material. Topsoil shall be sterilized.

E. Peat: Decomposed peat with no identifiable fibers, brown to black in color, sterile, weed and seed free, containing not more than 9% mineral on a dry basis, mature and shall be of good quality.

F. Soil Amendments: Soil testing shall be performed in all planting areas (including sodded areas) prior to construction with results submitted to landscape architect. Soil amendments shall be added as necessary to meet the following parameters:

1. pH Range	5.5-7.0
2. Organic Matter	2.0-5.0%
3. Soluble Salt Level	Less than 2 mmho/cm
4. Soil chemistry suitable for growing the plants specified.	

G. Fertilizer: Soil testing shall be performed in all planting areas (including sodded areas) prior to construction with results submitted to landscape architect. Provide fertilizer uniform in composition, dry, and in a free flowing condition for application by suitable equipment, and deliver in unopened bags or containers, each fully labeled. Fertilizer shall be complete with the following source compounds and applied at a rate as recommended by the soil test:

1. Nitrogen derived from ammonium nitrate.
2. Phosphorous derived from super phosphate.
3. Potassium derived from potassium sulfate.
4. Magnesium derived from magnesium sulfate.
5. The fertilizer shall be neutral and contain the essential micro-nutrients (Chelated Fe, Mn, Zn, Mo, Bo, Cu) in sulfates unless otherwise indicated in ppm. Fertilizer shall be organic and slow release.

H. Mulch shall be weed-free sterilized organic shredded wood mulch as listed on plant schedule. Mulch shall be clean, bright and free from moss, sticks and other debris. Mulch shall be spread at minimum of three (3) inches deep and maximum of four (4) inches deep or as otherwise noted. Cypress mulch shall not be used.

I. Water: Free of substances harmful to plant growth. Water shall contain less than 300 ppm soluble salts and less than 10 ppm chlorine, fluoride and sodium. Hoses or other methods of transportation furnished by Contractor. Contractor shall furnish water supply from an acceptable source. Acceptable sources: deep wells, municipal potable supply and treated wastewater.

J. Guys: Guy and stake trees, less than 3.5" in Caliper, in four directions with nylon tree guying kit with hardened nylon anchor and 3/4" 800 LB. Polyprop UV webbing, model or approved equal. For trees 3.5" in caliper and over, trees must be staked with wood 2x4 method. Follow palm staking detail for requirements. Attach fluorescent flagging to guys, minimum 18" length.

K. Pre-emergent weed killer: Apply approved herbicide or equal according to manufacturer's rate and specification within limits of areas to be planted. Protect existing plants and trees to remain from overspray or spray within root zone. Contractor to ensure total weed eradication.

PART 3 - EXECUTION

3.1 INSPECTION

A. Contractor shall examine proposed planting areas and conditions for installation. Do not start planting work until unsatisfactory conditions are corrected.

3.2 PREPARATION

A. Planting shall be performed only by experienced workmen familiar with planting procedures under the supervision of a qualified supervisor.

B. Layout of individual tree locations shall be approved by the Owner's representative prior to starting work. Give 48 hour notice of need for inspection. If obstructions are encountered that are not shown on the drawings, do not proceed with planting operations until alternate plant locations have been selected. Verify locations of existing utilities.

C. Excavate circular plant pits with 1:1 sides, except for plants specifically indicated to be planted in beds. Provide shrub pits at least 3 times greater than the diameter of the root system and 3 times greater than diameter of rootball for trees. Depth of pit shall accommodate the root system. When groundcovers and shrubs used in masses, entire bed to be excavated to receive planting soil and plant material, except where specified. Remove excavated materials from the site, as indicated under Site Clearing Section.

D. Provide pre-mixed planting backfill mixture for use around the balls and roots of the plants consisting of backfill mixture and plant fertilizer as specified, at a rate as recommended by the soil test.

E. Provide pre-mixed ground cover bed planting backfill mixture and plant fertilizer as specified, at a rate as recommended by the soil test. Prepare planting bed as specified on drawings.

F. Palm trees with clear trunk greater than six (6) feet in height shall be backfilled with soil indigenous to site.

G. Care of Existing Trees:

1. All existing trees, if any, shall be protected and cared for through the duration of this project as outlined by local code.

H. Tree Removal and Protection:

1. Prior to clearing of vegetation or grubbing, all trees shown as existing to remain shall be barricaded and protected as required. Immediately following vegetation removal, existing slopes greater than 3 to 1 shall be protected from erosion as required by local code. In areas where space limitations do no permit barricade construction per detail, contractor shall submit shop drawings indicating proposed alternative protection method to the landscape architect for approval prior to construction. The following activities are prohibited within the barricaded area: vehicular and pedestrian traffic; storage of construction materials; placement of excavated materials; and any activities that may disturb the root system within the barricaded area.
2. All required tree removal or relocation permits shall be procured by contractor prior to commencement of work.
3. Drainage easement, swales and inlets shall be maintained so their function is not impaired through plant growth or debris.

I. Utilities:

1. Above and below ground utilities, easements, right-of-way, ownership, structures, and/or other survey data shall by verified and located by the landscape contractor prior to commencing work in the project area. If the utility plans are available, the contractor shall examine them and bring any and all conflicts to the attention of the owner and/or landscape architect. When working in the areas where known utilities exist, utility locations may need to be staked and field verified by a surveyor or the utility companies. It shall be the landscape contractor's sole responsibility to notify "Sunshine" and any other interested agencies or parties of his intent to excavate and to obtain from all agencies or other interested parties locations of all existing utilities of every kind in the areas where he intends or plans to excavate. Such locations shall be obtained prior to starting construction and shall be maintained during construction. Should the contractor cause damage to any utilities, structures or other features, necessary repairs shall be made as quickly as practical at the contractor's expense, under supervision of the owner's representative.

3.3 INSTALLATION

A. Set plant material in the planting pit to proper grade and alignment. Set plants upright, plumb, and faced to give the best appearance or relationship to each other or adjacent structure. Set plant material 2"-3" above the finish grade. No filling will be permitted around trunks of stems. Backfill the pit with planting mixture until approximately 2/3 full, then water thoroughly before placing remainder of backfill. Repeat watering until no more is absorbed. Do not use muddy mixtures for backfilling. Form a ring of soil around the edge of each planting pit to retain water.

After balled and burlapped plants are set, place soil mixture around bases of balls and fill all voids. Remove all burlap, ropes, and wires from the tops of balls.

B. Space ground cover plants in accordance with indicated dimensions. Adjust spacing as necessary to evenly fill planting bed with indicated quantity of plants. Plant to within 4' of the trunks of trees and shrubs within planting bed and to within 1' of edge of bed.

C. Mulch:

1. Mulch tree, shrub planting pits and shrub beds with required mulching material 3" deep or as otherwise noted immediately after planting. Thoroughly water mulched areas. After watering, rake mulch to provide a uniform finished surface.

D. Staking/Guying:

1. Guy and stake trees, less than 3.5" in Caliper, in four directions with nylon tree guying kit with hardened nylon anchor and 3/4" 800 LB. Polyprop UV webbing, model or approved equal. Stake trees immediately after planting. For multi-trunk trees plant material, attach guys to four (4) largest limbs, care must be taken not to make guys too tight. For trees 3.5" in caliper and over, trees must be staked with wood 2x4 method. Follow palm staking detail for requirements. Contractor shall remove bracing in one year. Attach fluorescent flagging to guys, minimum 18" length.
2. When high winds or other conditions which may effect tree survival or appearance occur, the Owner's representative may require immediate staking/guying.
3. Brace all palm trees. Wrap with 5 layers burlap approximately 1/3 of the way up trunk. Attach lumber with cleats and hammer braces to lumber. Secure to ground with stake.
4. All work shall be acceptable to the Owner's representative.

E. Pruning:

1. Prune branches of B&B stock, prior to transplanting, to balance the loss of roots and preserve the natural character appropriate to the particular plant requirements. In general, remove 1/4 to 1/3 of the leaf bearing buds, proportion shall in all cases be acceptable to the Owner's representative. Remove or cut back broken, damaged, and unsymmetrical growth of new wood. Prune trees to retain required height and spread. Do not cut structural branches. Required sizes are the size after pruning.
2. Multiple leader plants: Preserve the leader which will best promote the symmetry of the plant. Cut branches at branch collars.

F. Care of Existing Trees:

1. All existing trees, if any, shall be protected and cared for through the duration of this project as outlined by local code.
2. Existing Tree Pruning: Prune existing trees as directed. All existing trees shall be pruned in accordance with standards established by The International Society of Arboriculture.

3.4 MAINTENANCE

A. Begin maintenance immediately after planting. Maintain all plant material until final acceptance and for a Maintenance Period of 45 days after final acceptance.

B. Maintenance shall include but is not limited to pruning, cultivating, mowing, weeding, fertilizing, watering, and application of appropriate insecticides and fungicides necessary to maintain plants free of insects and disease.

1. Re-set settled plants to proper grade and position. Restore planting saucer and adjacent material and remove dead material.
2. Tighten and repair guys and stakes as required.
3. Correct defective work immediately after deficiencies become apparent and weather permits.
4. In addition to irrigation system or if no system exists, water trees every other day saturating the soil to depth of three (3) feet for the first two (2) weeks. If no irrigation system exists (or not functioning properly), water plant material per the following schedule:

1-30 days - water every other day, saturating the soil to a depth of 3 feet.

30-90 days - water twice a week, saturating the soil to a depth of three (3) feet. Quantity of water applied should be adjusted in accordance to rainfall.

3.5 ACCEPTANCE

A. Inspection to determine acceptance of planted areas will be made by the Landscape Architect upon Contractor's request. Provide notification at least 5 working days before requested inspection date. Planted areas will be accepted provided all requirements, including maintenance, have been complied with and plant materials are alive and in a healthy, vigorous condition.

B. The Landscape Architect will prepare a "punch list" of those items which must be corrected before reinspection for final acceptance. The Landscape Architect will determine an appropriate time period in which punchlist items must be corrected. Provide 48 hour notification of need for reinspection.

C. The owner will assume plant maintenance 45 days after final acceptance, at which time, the contractor shall request a final maintenance inspection for acceptance, where requirements as stated in 3.5 apply.

3.6 WARRANTY

A. Warrant plant material to remain alive and be in healthy, vigorous condition for a period of 1 year after completion and final acceptance of entire project.

B. Replace, in accordance with the drawings and specifications, all plants that are dead or as determined by the Owner's representative to be in an unhealthy or unsightly condition, and have lost their natural shape due to contractor's negligence. The cost of such replacement(s) is at Contractor's expense. Warrant all replacement plants for six months after final acceptance.

C. Warranty shall not include damage or loss of trees, plants, or ground covers caused by fires, floods, freezing, rains, lightning storms or winds over 75 miles per hour, winter kill caused by extreme cold and severe winter conditions not typical of planting area; acts of vandalism or negligence on the part of the owner.

D. Remove and replace immediately all plants found to be dead or in unhealthy condition as determined by Owner's representative at any time during warranty period. Make replacements within four (4) weeks of notification.

1. An inspection will be conducted at the end of the warranty period. Contractor will replace any plants found to be dead or in poor condition at this time within four (4) weeks of inspection. Contractor will also remove any tree bracing or guying determined by the owner's representative to be unnecessary at this point in the trees development.

3.7 CLEANING

A. Perform cleaning during installation of the work and upon completion of the work. Remove from site all excess materials, soil, debris, and equipment. Do not leave on site over night, unless arrangements have been made to do so with the Owner's representative. Coordinate with Owner's Representative on site storage of debris and/or trash. Repair damage resulting from planting operations.

END OF SECTION - TREES, PLANTS AND GROUNDCOVERS

SECTION - SODDING

PART 1 - GENERAL

1.1 DESCRIPTION

A. Provide sodded lawn as shown and specified. The work includes:

1. Soil preparation.
2. Sodding lawns
3. Maintenance.
4. Sodding disturbed areas in areas adjoining contract limits disturbed as a result of construction operations.

1.2 RELATED WORK

2. Section: Trees, Plants, and Ground Covers (Sheet L-4)

1.3 QUALITY ASSURANCE

A. Sod: Comply with American Sod Producers Association (ASPA) classes of sod material. Sod must be certified sod of type specified in the project Plant Schedule, grown and maintained on a well drained sandy root zone soil. The sod must be weed and insect free.

B. Provide and pay for materials testing. Testing agency shall be acceptable to the Engineer and/or Landscape Architect. Provide the following date:

1. Test representative materials samples proposed for use.
2. Soil analysis of existing conditions.
   a. Soil pH and recommendations for correction.
   b. Nematode infestation check and recommendation for eradication.
   c. Organic matter check and recommendation.
   d. Starter fertilizer check and recommendations.

C. SUBMITTALS

1. Submit sod growers certification of grass species. Identify source location.
2. Submit the following material samples:
   a. Topsoil.
3. Submit the following material certification:

a. Submit certificates of inspection as required by governmental authorities and manufacturers or vendors certified analysis for soil amendments, herbicides, insecticides and fertilizer materials; submit other data substantiating that materials comply with specified requirements.

b. Submit soil analysis report.

1.4 DELIVERY, STORAGE AND HANDLING

A. Cut, deliver and install sod within a 24-hour period.

1. Do not harvest or transport sod when moisture content may adversely affect Sod survival.
2. Protect sod from sun, wind, and dehydration prior to installation.
3. Do not tear, stretch, or drop sod during handling and installation.

1.5 PROJECT CONDITIONS

A. Work notification: Notify Owner's representative at least 7 working days prior to start of sodding operations.

B. Protect existing utilities, paving and other facilities from damage caused by sodding operations.

C. Perform sodding work only after planting and other work affecting ground surface has been completed.

D. Existing soil to be amended as determined necessary from soil analysis, including: soil pH, nematode infestation, organic matter check and starter fertilizer check.

E. Restrict traffic from lawn areas until grass is established.

F. Provide hose and lawn watering equipment as required.

G. The irrigation system will be installed prior to sodding. Locate, protect and maintain the irrigation system during sodding operations. Repair irrigation system components damaged during sodding operations at this contractor's expense.

1.6 WARRANTY

A. Warrant sodded lawns to remain alive and be in healthy, vigorous condition for a period of 60 days after completion and final acceptance of entire project.

B. Replace, in accordance with the drawings and specifications, all sodded lawns that are dead or as determined by the Owner's representative to be in an unhealthy or unsightly condition, and have lost their natural shape due to contractor's negligence. The cost of such replacement(s) is at Contractor's expense.

PART 2 - PRODUCTS

2.1 MATERIALS

A. Sod: An "approved" nursery grown sod composed of certified sod of type specified in the project Plant Schedule grown on a well drained sandy root zone soil.

1. Provide well-rooted, healthy sod, free of diseases, nematodes and soil borne insects. Provide sod uniform in color, leaf texture, density, and free of weeds, undesirable grasses, stones, roots, thatch, and extraneous material; viable and capable of growth and development when planted.
2. Furnish sod, machine stripped, and of supplier's standard width, length, and thickness: Uniformly 1-1/4" to 1-1/2" thick with clean cut edges. Mow sod before stripping.

B. Fertilizer:

1. Granular, non-burning product composed of not less than 50% organic slow acting, guaranteed analysis professional fertilizer. All fertilizer shall be applied at a rate recommended by the soil test.

a. Type A: Starter fertilizer containing nitrogen, phosphoric acid, and potash. Fertilizer shall be complete and applied at a rate as recommended by the soil test. Provide at least 50% of the phosphoric acid from normal super phosphate or an equivalent source providing a minimum of two units of sulfur. The amounts of sulfur and all other chemical shall be indicated on the quantitative analysis card attached to the unopened bag.

b. Type B: Top dressing fertilizer containing 31% nitrogen, 3% phosphoric acid, and 10% potash by weight or similar approved composition.

c. Ground Limestone: ASTM C 602, agricultural limestone containing a minimum 80 percent calcium carbonate equivalent and as follows:

1.1. Class: Class T, with a minimum 99 percent passing through No. 8 (2.36-mm) sieve and a minimum 75 percent passing through No. 60 (0.25-mm) sieve.

1.2. Provide lime in form of dolomitic limestone.

C. Stakes

1. Steel, tee shaped pins, 4" head x 8" leg.

D. Water: Free of substance harmful to sod growth. Hoses or other methods of transportation furnished by contractor.

E. Topsoil: Fertile, friable, natural topsoil of loamy character, without admixture of subsoil material, reasonably free from clay lumps, coarse sand stones, plants, roots and other foreign materials with an acidity level as specified by type of sod.

1. Identify source location of topsoil.
2. Topsoil shall be fertilized.
3. It is the contractors responsibility to determine, prior to bid, the quantity of top soil required to meet the project requirements. Contractor shall review existing soil on site, the project top soil specifications, and evaluate if imported top soil is required on the project based on the contractor means and methods of construction. The contractor shall assume the expense of meeting the soil specifications on the project and determine the quantity of imported top soil, quantity of usable onsite top soil, and determine required amendments and/or modifications to the soil.

PART 3 - EXECUTION

3.1 INSPECTION

A. Examine finish surfaces, grades, topsoil quality, and depth. Do not start sodding work until unsatisfactory conditions are corrected.

3.2 PREPARATION

A. Apply approved herbicide or equal according to manufacturer's rate and specification within limits of areas to be planted. Protect existing plants and trees to remain from overspray or spray within root zone. Contractor to ensure total weed eradication.

B. Remove any existing sub-base or compacted materials to expose a friable soil layer.

C. Loosen soil/topsoil of lawn areas to minimum depth of 8". Remove stones over 1" in any dimension and sticks, roots, rubbish, and extraneous matter.

D. Add 3" topsoil or organic material as required from organic matter check. Till into top 8" of existing soil.

E. Grade lawn areas to smooth, free draining and even surface with a loose,

uniformly fine texture. Roll and rake, remove ridges and fill depressions as required to drain.

F. Apply limestone at rate determined by the soil test, to adjust pH of topsoil as specified.

Distribute evenly by machine and incorporate thoroughly into topsoil.

G. Apply "Type A" fertilizer as specified by manufacturer and at a rate as recommended by the soil test. Apply fertilizer by mechanical rotary or drop type distributor, thoroughly and evenly incorporated with the soil to a depth of 3" by discing or other approved methods. Fertilize areas inaccessible to power equipment with hand tools and incorporate it into soil.

H. Dampen dry soil prior to sodding.

I. Restore prepared areas to specified condition if eroded, settled or otherwise distributed after fine grading and prior to sodding.

3.3 INSTALLATION

A. Lay sod to form a solid mass with tightly-fitted joints. Butt ends and sides of sod strips. Do not overlay edges. Stagger strips to offset joints in adjacent courses. Remove excess sod to avoid smothering of adjacent grass. Provide sod pad top flush with adjacent curbs, sidewalks, drains and seed areas.

B. Do not lay dormant sod or install sod on saturated soil.

C. Install initial row of sod in a straight line, beginning at bottom of slopes, perpendicular to direction of the sloped area. Place subsequent rows parallel to and lightly against previously installed row.

D. Peg sod on slopes greater than 3 to 1 to prevent slippage at a rate of 2 stakes per yd. of sod.

E. Water sod thoroughly with a fine spray immediately after laying.

F. Roll with light lawn roller to ensure contact with subgrade.

G. Sod indicated areas within contract limits and areas adjoining contract limits disturbed as a result of construction operations.

H. Top dress all seams of sodded area with specified topsoil.

3.4 MAINTENANCE

A. Maintain sodded lawns for a period of at least 45 days after completion and acceptance of sodding operations.

B. Maintain sodded lawn areas, including watering, spot weeding, mowing, application of herbicides, fungicides, insecticides and resodding until a full, uniform stand of grass free of weed, undesirable grass species, disease, and insects is achieved and accepted by the Owner's representative.

1. Water sod thoroughly every 2 to 3 days, as required to establish proper rooting.
2. Repair, rework, and resod all areas that have washed out or are eroded. Replace undesirable or dead areas with new sod.
3. Mow lawn areas as soon as lawn top growth reaches a 3" height. Cut back to 2" height. Repeat mowing as required to maintain specified height. Not more than 40 percent of grass leaf shall be removed at any single mowing.
4. Apply "Type B" fertilizer to lawns approximately 30 days after sodding at a rate as determined by the soil test and as specified by the manufacturer. Apply with a mechanical rotary or drop type distributor. Thoroughly water into soil.
5. Apply herbicides as required to control weed growth or undesirable grass species.
6. Apply fungicides and insecticides as required to control disease and insects.

3.5 ACCEPTANCE

A. Inspection to determine acceptance of sodded lawns will be made by the Owner's representative and the Landscape Architect, upon contractor's request. Provide notification at least five working days before requested inspection date.

1. Sodded areas will be acceptable provided all requirements, including maintenance, have been complied with, and a healthy, even colored viable lawn is established, fee of weeds, undesirable grass species, disease, and insects.

B. Upon acceptance contractor shall maintain area for 45 days. At the end of this period contractor shall request a final maintenance inspection for acceptance.

C. Upon acceptance at end of maintenance period the Owner will assume lawn maintenance.

3.6 CLEANING

A. Perform cleaning during installation of the work and upon completion of the Work. Remove from site all excess materials, debris, and equipment. Repair damage resulting from sodding operations.

END OF SECTION - SODDING

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Prepared By:

PlaceMaker Design Studio, LLC
Urban Design • Landscape Architecture • Land Planning

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Phone: (813) 644-8333

Prepared For:

City of Tampa
306 East Jackson Street
Tampa, Florida 33602

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Hubert Avenue Park & Right-Of-Way Improvements

4106, 4108, & 4110 N. Hubert Ave +
4115 N. Manhattan
Tampa, Florida

Seal

BID SET

REV	DATE	DESCRIPTION
1		
2		
3		
4		
5		

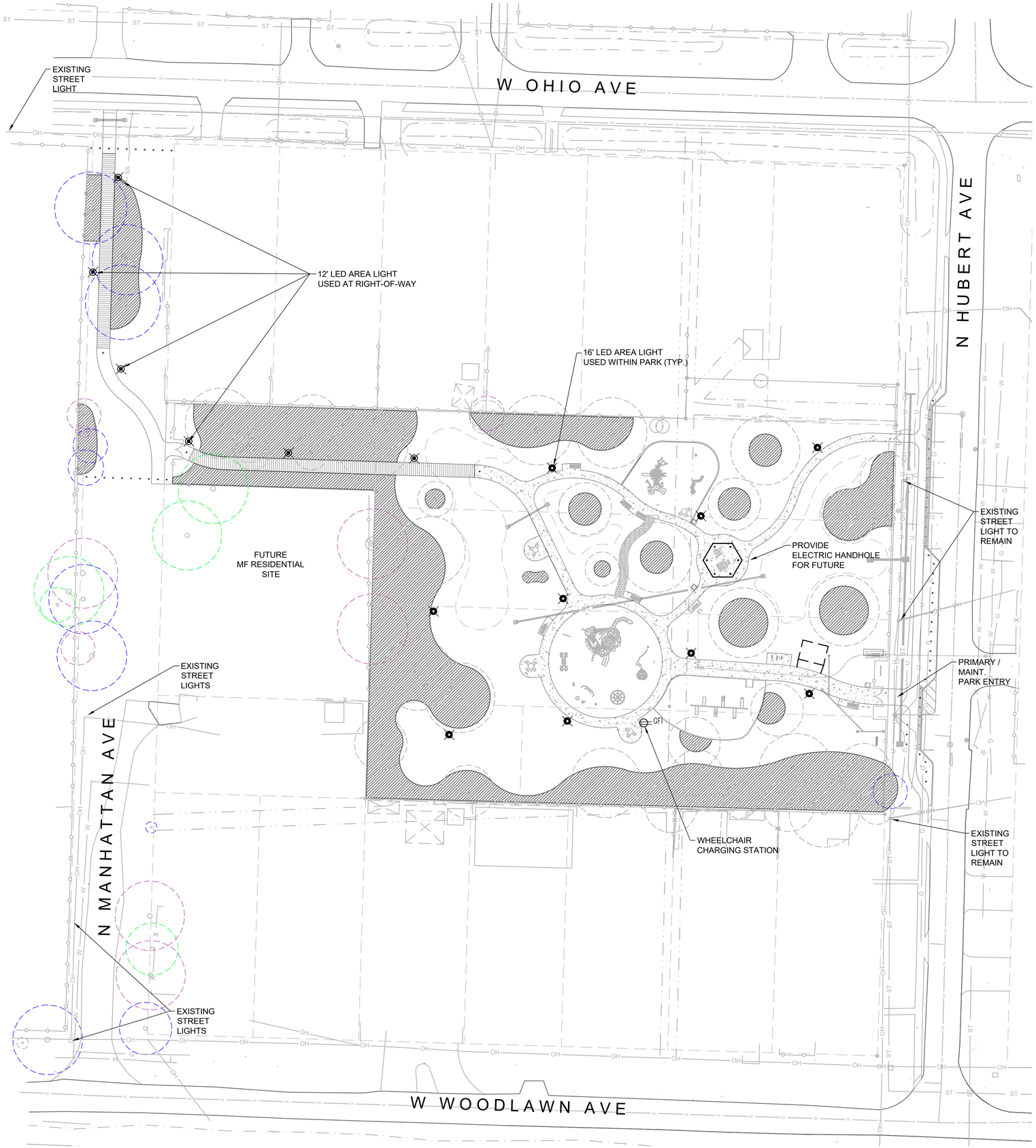
Date:	**MAY 15, 2026**
Job No.:	**8702**
Drawn By:	**GLA**
Checked By:	**CJA**

Sheet Title

LANDSCAPE SPECIFICATIONS

Sheet No.

LP602



LANDSCAPE LIGHTING NOTES

1) CONTRACTOR SHALL PROVIDE PHOTO CELL, TIMER AND METER CONTROLLED LIGHTING SYSTEMS USING FIXTURES AND LOCATIONS ON THE PLAN. THE INSTALLATION SHALL COMPLY WITH ALL APPLICABLE STATE, COUNTY AND CITY CODES AND SHALL MEET OR EXCEED THE NATIONAL ELECTRICAL CODE. CONTRACTOR IS RESPONSIBLE FOR ACQUIRING ALL PERMITS AND APPROVALS REQUIRED. SYSTEM INSTALLATION SHALL BE GUARANTEED FOR ONE YEAR, PARTS AND LABOR DUE TO FAILURE BASED ON FAULTY WORKMANSHIP OR EQUIPMENT FAILURE.

3) ALL FIXTURES AND EQUIPMENT SHALL BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS.

4) ELECTRICAL EQUIPMENT PANEL LOCATION AND METERING SHALL BE COORDINATED WITH OWNER'S REPRESENTATIVE AND ELECTRICAL ENGINEER. PANEL AND BOX SHALL MEET ALL APPLICABLE CODES.SEE ELECTRICAL DRAWINGS.

5) FINAL FIXTURE AIMING AND ADJUSTMENTS SHALL BE MADE AT NIGHT WITH OWNER'S REPRESENTATIVE PRESENT TO GIVE FINAL APPROVAL.

6) THIS PLAN IS FOR OUTDOOR LIGHTING FIXTURE LOCATION ONLY - WIRING DIAGRAMS, DETAILS, AND INSTALLATION SPECIFICATIONS ARE BY ELECTRICAL ENGINEER/CONTRACTOR.

7) INSTALL 4" PVC RACEWAYS, AS REQUIRED.

8) SUBMIT CUT SHEETS FOR ALL FIXTURES FOR FINAL APPROVAL.

9) THIS PLAN REPRESENTS ACCENT LIGHTING FIXTURES AND LOCATION ONLY AND IS NOT INTENDED FOR SITE LIGHTING PURPOSES.

10) INSTALLATION, WIRING AND EQUIPMENT MUST COMPLY WITH THE NATIONAL ELECTRICAL CODE (NEC).

LIGHTING SCHEDULE

PHOTO	SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
		AREA LIGHT 16` HT (LED) LANDSCAPE FORMS FGP AREA LIGHT. PRODUCT NUMBER AG-500L5-056F-30K-UV1-16-TW1-FOG	9
		AREA LIGHT 12` HT (LED) LANDSCAPE FORMS FGP AREA LIGHT. PRODUCT NUMBER AG-500L3-056F-30K-UV1-12-TW1-FOG	6
	GFI	POWER PEDESTAL: 5"X5", 42" HIGH 5"X5", 42" HIGH, HINGED COVER, 20 AMP GFCI DEVICE MOUNTING PLATE, SURFACE MOUNT, S.S. POWDER COATED BLACK. MANUFACTURED BY PEDOC. CATALOGUE NUMBER: 5P42-C-HT-B-140. SURFACE MOUNT ON 18" X 18" 4" THICK CONCRETE PAD.	1

NORTH

GRAPHIC SCALE 0' 15' 30' 60'

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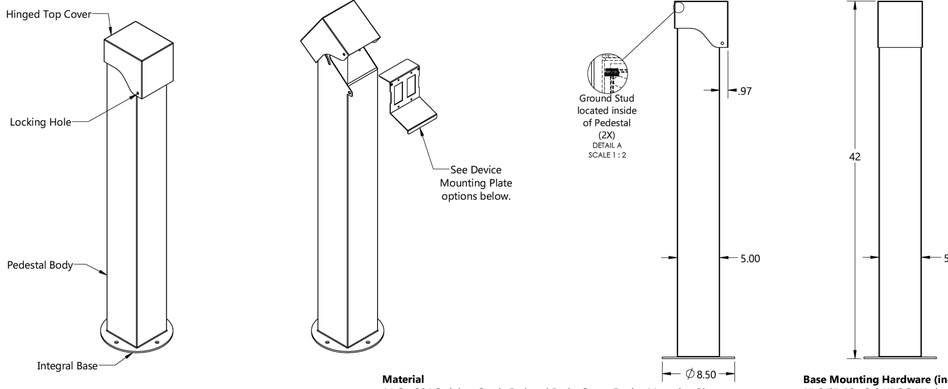
Date:	**MAY 15, 2026**
Job No.:	**8702**
Drawn By:	**GLA**
Checked By:	**CJA**

Sheet Title
LANDSCAPE SECURITY LIGHTING

Sheet No.
LL100

POWER PEDESTAL - WHEELCHAIR CHARGING STATION

Model Type: 5x5 Hinge Top with Integral Base
Description: 42" 5x5 Hinge Top with Integral Base



Material
14 Ga. 304 Stainless Steel: Pedestal Body, Cover, Device Mounting Plate
7 Ga. 304 Stainless Steel: Integral Base

Base Mounting Hardware (included)
(4) 3/8"-16 x 2-3/4" S.S. Wedge Anchors
(4) 3/8"-16 S.S. High Crown Acorn Cap Nut
(4) 3/8" x Ø 7/8" x .05" Thick S.S. Flat Washer

Packaging
Boxed Dimensions: 11" x 11" x 45"
Boxed Weight: 28 Lbs.

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Part Numbering Reference

Finish/Configuration	Dual 15/20A GFCI	30A (1-9/16")	Dual 30A (1-9/16")	15/20A GFCI & 30A (1-9/16")	30/50A (2-1/8")	50/60A (Straight Blade Recommended)	30/50A (Turn Lock)
Powder Coated ("C")	5P42-C-HT-*-140	5P42-C-HT-*-142	5P42-C-HT-*-138	5P42-C-HT-*-144	5P42-C-HT-*-148	5P42-C-HT-*-154	5P42-C-HT-*-176
Brushed Finish ("SS")	5P42-SS-HT-140	5P42-SS-HT-142	5P42-SS-HT-138	5P42-SS-HT-144	5P42-SS-HT-148	5P42-SS-HT-154	5P42-SS-HT-176

* Color Code: B = Black, G = Gray, GN = Green, BR = Brown, BRZ = Bronze, CSTM = Custom Color

PARK SECURITY LIGHTING

FGP Area Light

landscapeforms

Product Data Sheet



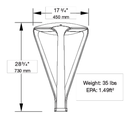
FGP has a pleasing flower-like organic form created by three stems that rise from the connection with the pole. The soft, triangular head holds LEDs in triangular arrays that cast illumination between the verticals in a clean footprint. The area light is ideal for pedestrain spaces such as campuses, parks and plazas, helping to create public spaces that are usable 24 hours a day. LED light sources are energy efficient. Light is finished using Landscape Forms' proprietary Pangard II powdercoat finish.

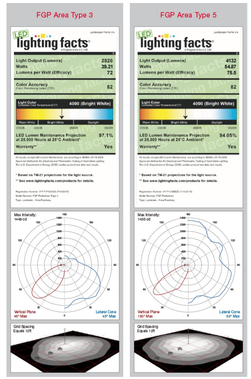
LED Technology
The area light employs solid state LED technology that provides exceptional energy efficiency and very long life. Designed to maximize this potential by managing the thermal properties of LEDs, the FGP area light's cast aluminum heatsink and housing efficiently dissipate heat. FGP uses full spectrum LED light engines that provide outstanding color rendering ability. The thermoformed integrated diffuser lens reduces glare, improving the visual experience.

Electrical
Surge protected 100V-277V 50/60 Hz, Class 2 integrated dimmable driver. LED cartridge with weatherproof quick disconnect provides ease of installation and serviceability. FGP Pedestrian ships prewired.

FGP Area Type 3
Type 3 Distribution
Fixture: Cast Aluminum
CCT: 2700K, 3000K, 3500K, 4000K
Drive Current: 460mA
Optic: LEDIL® STRATA
Lens: Impact Modified Acrylite®
Power Supply: 100V-277V
LED Driver: 50W
Dimmable: 0-10V
BUG Rating: B1 U2 G1
IP Rating: IP66

FGP Area Type 5
Type 5 Distribution
Fixture: Cast Aluminum
CCT: 2700K, 3000K, 3500K, 4000K
Drive Current: 560mA
Optic: LEDIL® STRATA
Lens: Impact Modified Acrylite®
Power Supply: 100V-277V
LED Driver: 60W
Dimmable: 0-10V
BUG Rating: B2 U2 G1
IP Rating: IP66





FGP Area Light

landscapeforms

Product Data Sheet



Finish
Pangard II®, offered exclusively by Landscape Forms, is a 19 step program of cleaning, priming, and powdercoating that resists rusting, chipping, peeling and fading to produce the finest metal finish available for site furniture and outdoor lighting. In addition, Pangard II® contains no heavy metals and is free of Hazardous Air Pollutants.

To Order
Specify: Product, Lamp, Drive Current, Color Temperature, Input Voltage, Height, optional 7-pin (ANSI 136.41) Twist Lock receptacle, and Powdercoat Color.

Product	Lamp	Drive Current	Color Temp.	Input Voltage	Height	Twist Lock
AG FGP	50QL3 (30 LED Type 3)	046F (460 mA)	40K (4000K) 35K (3500K) 30K (3000K) 27K (2700K)	UV1 (100-277VAC)	12 (144in) 14 (168in) 16 (192in)	NTW (No Twist Lock) TWT (Twist Lock)
	50QL5 (30 LED Type 5)	056F (560 mA)				

EXAMPLE: AG – 50QL3 – 046F – 35K / UV1 – 12 – TWT – Powdercoat Color

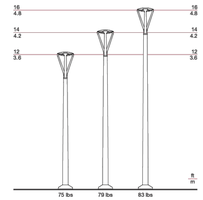
Product Modifications
Don't see what you are looking for? Our goal is to partner with you as the designer to manufacture solutions needed for the space you are creating. We offer the option to modify our standard product to meet certain design specifications or needs. Contact your local Landscape Forms representative to learn more about these offerings.

Warranty
LED lighting products are warranted for six years.

Other
UL Listed, RoHS Compliant, Next Generation Luminaires Winner

Designed by Francisco Gomez Paz

Click here for patent information related to this product.



Visit our landscapeforms.com for more information. Specifications are subject to change without notice. Landscape Forms supports the Landscape Architecture Foundation at the Second Century level.
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WHEELCHAIR CHARGING STATION

Specifications
Power Pedestal, 5x5 Hinge Top with Integral Base
Surface Mount

PEDOC Pedoc Power Solutions

cULus Listed: Standard 1773. Rated NEMA 3R. ADA compliant heights available.

5x5, Hinged Cover, Surface Mount, 60 Amp Max



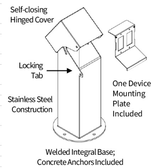
Seamless welded stainless steel construction

With a built-in tamper-proof cover and welded integral base, this durable wide body power pedestal safely protects outdoor conduit, wiring and devices. Well-suited for powering food trucks, scoreboards, engine block heaters, personal devices, maintenance equipment and more.

- Self-closing cover prevents ingress of water and other outside elements
- Solid construction saves on costly repair and replacement maintenance
- Locking tab to prevent unwanted use
- Heavy stainless steel welded construction for maximum protection
- Spacing between cover and pedestal to allow wiring to pass through while-in-use
- May be ordered with an internal dividing channel to separate high and low voltage
- Pre-installed grounding hardware and concrete anchors included

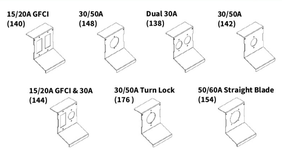
Specifications

Amperage	60 Amp max. rating
Material	304 Stainless Steel: 14-gauge body, 7-gauge base; optional upgrade to 316
Construction	Welded pedestal body, base and weatherproof cover (lockable)
Finishes	Outdoor rated powder coat paint (standard and custom), brushed stainless
Heights	18", 24", 30", 36", 42", 48"
Dimensions	5" wide by 5" deep pedestal; 5-1/4" wide by 6-1/4" deep cover, 8-1/2" diameter base
Devices	Not supplied; can accommodate 15 – 60 Amp weather-resistant devices
Device Mount	Removable receptacle mounting plate included
Cover	Auto-closing cover provides protection to meet while-in-use requirements
Hardware	Pre-installed SS grounding hardware; concrete anchoring hardware included
Application	May be ordered with a divider for high and low voltage
Customization	Custom powder coat option



Welded Integral Base; Concrete Anchors Included

Device Mounting Configurations



Notes:
All device mounting plates are not recommended for 90 degree or angled plugs.

See last page for dimensional details.

See next page for part numbers →

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PARK SECURITY LIGHTING FOUNDATIONS - FOR REFERENCE ONLY (NOT FOR CONSTRUCTION)

Truemont Materials
904-385-8383

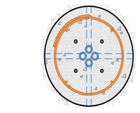
ROUND SMOOTH POLE BASE PRODUCTION FORM

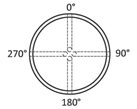
JOB NAME: Hubert Avenue Park, Tampa FL

QUANTITY REQUESTED: 6
BASE DIAMETER: 18"
BASE HEIGHT: 4'-0"
ABOVE GRADE: 4"

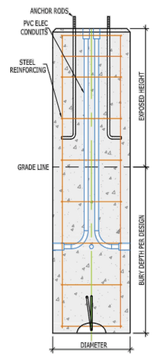
1. Grade 60 Rebar
2. F'c=5000 PSI
3. 1500 PSI Strip Strength
4. Provide Schedule 40 PVC Conduits in Size Indicated on plans
5. Pole Base Foundations to be Signed and Sealed by a PE of the State

Bolt Conduit Relationship:
Bolts- Square Template
Conduit- Cross Template





REFERENCE ONLY - SEE CHART FOR ACTUAL LOCATION



FOR REFERENCE ONLY
NOT FOR CONSTRUCTION

CONDUIT INFORMATION		
SIZE	ANGLE	DEPTH
1"	0	24"
1"	90	24"
1"	180	24"
1"	270	24"

Truemont Materials
904-385-8383

ROUND SMOOTH POLE BASE PRODUCTION FORM

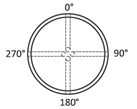
JOB NAME: Hubert Avenue Park, Tampa FL

QUANTITY REQUESTED: 9
BASE DIAMETER: 18"
BASE HEIGHT: 5'-0"
ABOVE GRADE: 4"

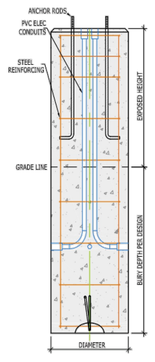
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Bolt Conduit Relationship:
Bolts- Square Template
Conduit- Cross Template





REFERENCE ONLY - SEE CHART FOR ACTUAL LOCATION



FOR REFERENCE ONLY
NOT FOR CONSTRUCTION

CONDUIT INFORMATION		
SIZE	ANGLE	DEPTH
1"	0	36"
1"	90	36"
1"	180	36"
1"	270	36"

NOTE: LIGHT POLE FOUNDATIONS SHOWN FOR BIDDING PURPOSES ONLY. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ALL FOUNDATIONS TO LANDSCAPE ARCHITECT AND THE CITY OF TAMPA FOR APPROVAL. CONTRACTOR SHALL PROVIDED ENGINEERED SHOP DRAWINGS SIGNED AND SEALED BY A STRUCTURAL ENGINEER.

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Tampa, Florida

Seal

BID SET

REV	DATE	DESCRIPTION
1		
2		
3		
4		
5		

Date: MAY 15, 2026
Job No.: 8702
Drawn By: GLA
Checked By: CJA

Sheet Title
SECURITY LIGHTING DETAILS

Sheet No.
LL501

Luminaire Schedule								
Symbol	Qty	Label	Arrangement	Lum. Lumens	LLF	Lum. Watts	Total Watts	Description
	6	PLT3	Single	2769	0.900	47.74	286.44	AG-500L3-046F-35K
	9	PLT5	Single	3933	0.900	56.26	506.34	AG-500L5-056F-35K

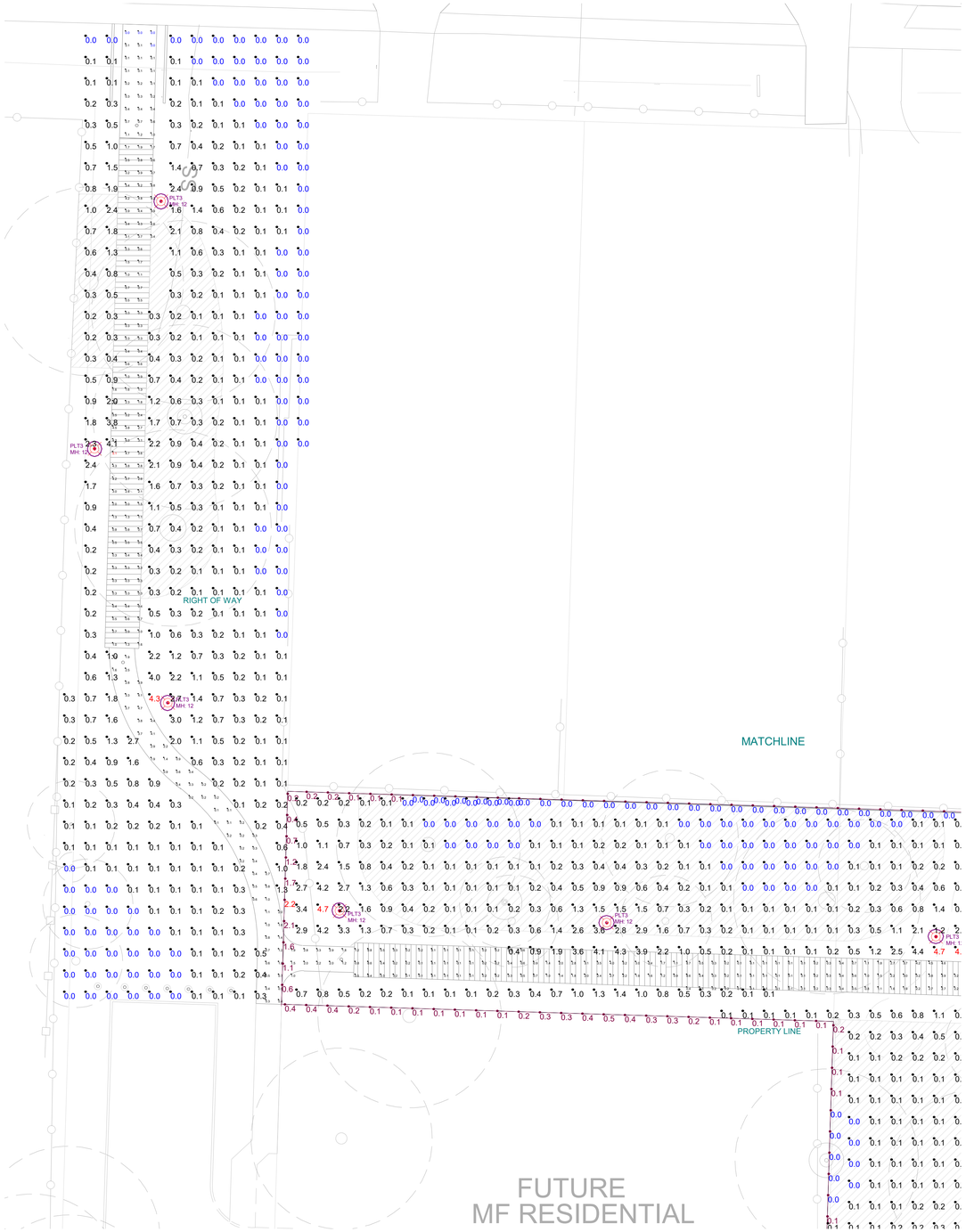
Calculation Summary								
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min	Grid Z
PARK AREA	Illuminance	Fc	0.38	4.7	0.0	N.A.	N.A.	0
PLAY AREA 1	Illuminance	Fc	0.46	1.9	0.0	N.A.	N.A.	0
PLAY AREA 2	Illuminance	Fc	0.29	1.2	0.0	N.A.	N.A.	0
PLAY AREA 3	Illuminance	Fc	0.43	1.7	0.1	4.30	17.00	0
PROPERTY LINE	Illuminance	Fc	0.08	2.2	0.0	N.A.	N.A.	N.A.
RIGHT OF WAY	Illuminance	Fc	0.38	4.3	0.0	N.A.	N.A.	0
WALKWAY	Illuminance	Fc	0.91	5.1	0.0	N.A.	N.A.	0

NOTES:
- WHEN THE LLF IS NOT .9 OR 1.0 THE WATTAGE INFORMATION WILL NOT BE CORRECT

- LUMINAIRES WERE DEFINED AS SPECIFIED

- LUMINAIRES PLACED AT SPECIFIED LOCATIONS

- LUMINAIRE SYMBOLS MAGNIFIED FOR LEGIBILITY PURPOSES



LIGHTING CALCULATIONS - AREA A
Scale: 1 inch= 15 Ft.

SESCO LIGHTING

Disclaimer:
SESCO Lighting provides this photometric report for purposes of comparison within the SESCO Lighting product line only. The information provided is based on standardized industry procedures.

This laboratory performance will always differ from that observed in the field due to a great number of variables, both known and unknown (installation methods, power quality, lamping, recoverable and non-recoverable light loss factors, etc.)

In general, SESCO Lighting considers numerical studies to be predictive in that they cannot characterize the visual performance of any luminaire, single or grouped. As such, specification decisions must be thoroughly based upon experience, consultation with the manufacturer, and, above all, common sense.

Sales Rep: KARINA MEINKE
Office: TAMPA
Contact No: (407) 629-6100
Processed By: FIVGAS, J.
Filename: 02-03-25 HUBERT AVENUE SP.AGI

HUBERT AVENUE PARK

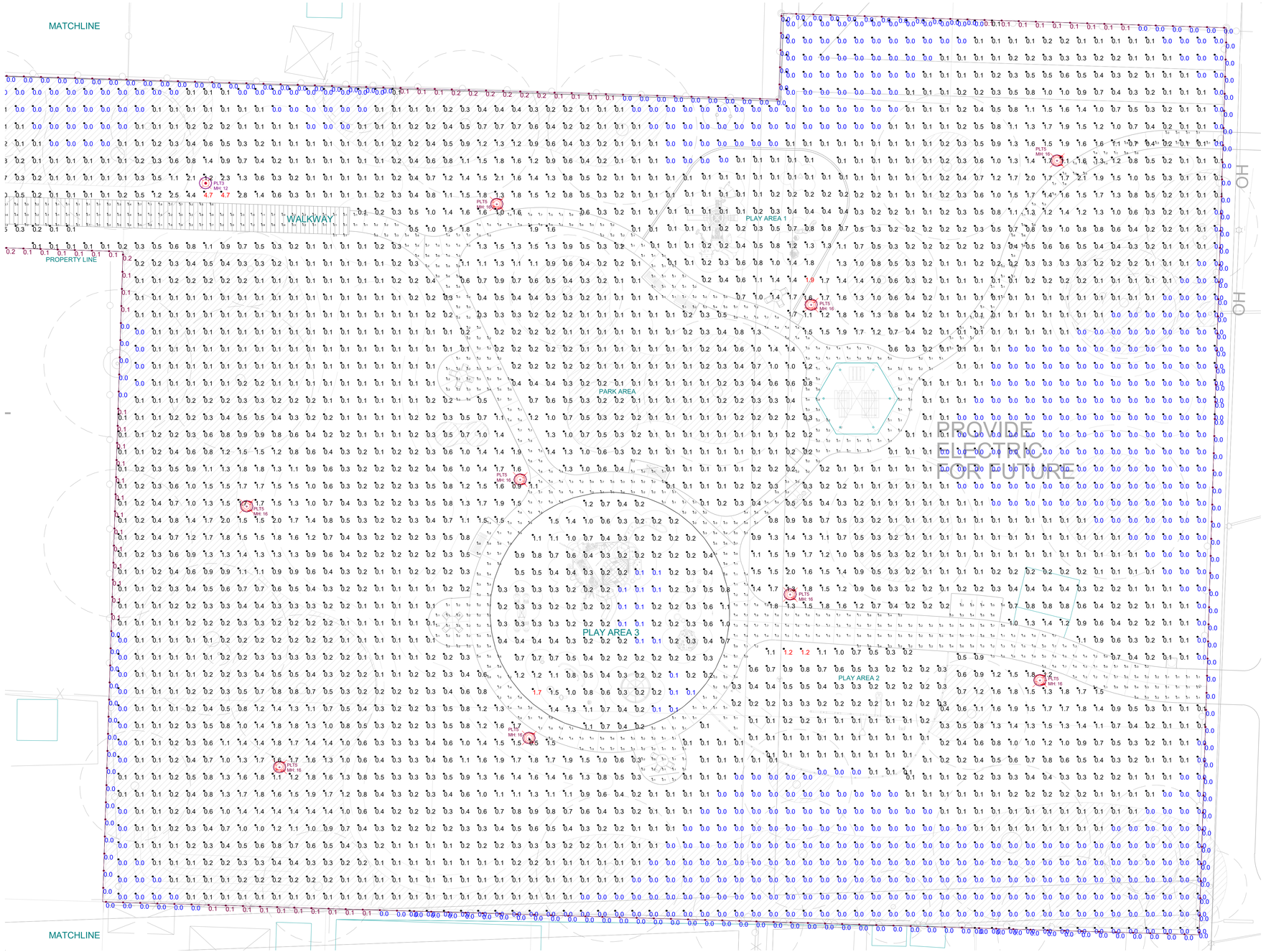
LIGHTING CALCULATIONS

Date:2/3/2025

Luminaire Schedule								
Symbol	Qty	Label	Arrangement	Lum. Lumens	LLF	Lum. Watts	Total Watts	Description
	6	PLT3	Single	2769	0.900	47.74	286.44	AG-500L3-046F-35K
	9	PLT5	Single	3933	0.900	56.26	506.34	AG-500L5-056F-35K

Calculation Summary								
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min	Grid Z
PARK AREA	Illuminance	Fc	0.38	4.7	0.0	N.A.	N.A.	0
PLAY AREA 1	Illuminance	Fc	0.46	1.9	0.0	N.A.	N.A.	0
PLAY AREA 2	Illuminance	Fc	0.29	1.2	0.0	N.A.	N.A.	0
PLAY AREA 3	Illuminance	Fc	0.43	1.7	0.1	4.30	17.00	0
PROPERTY LINE	Illuminance	Fc	0.08	2.2	0.0	N.A.	N.A.	N.A.
RIGHT OF WAY	Illuminance	Fc	0.38	4.3	0.0	N.A.	N.A.	0
WALKWAY	Illuminance	Fc	0.91	5.1	0.0	N.A.	N.A.	0

NOTES:
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- LUMINAIRES WERE DEFINED AS SPECIFIED
- LUMINAIRES PLACED AT SPECIFIED LOCATIONS
- LUMINAIRE SYMBOLS MAGNIFIED FOR LEGIBILITY PURPOSES



LIGHTING CALCULATIONS - AREA B
Scale: 1 inch= 15 Ft.

SESCO LIGHTING

Disclaimer:
SESCO Lighting provides this photometric report for purposes of comparison within the SESCO Lighting product line only. The information provided is based on standardized industry procedures.

This laboratory performance will always differ from that observed in the field due to a great number of variables, both known and unknown (installation methods, power quality, lamping, recoverable and non-recoverable light loss factors, etc.)

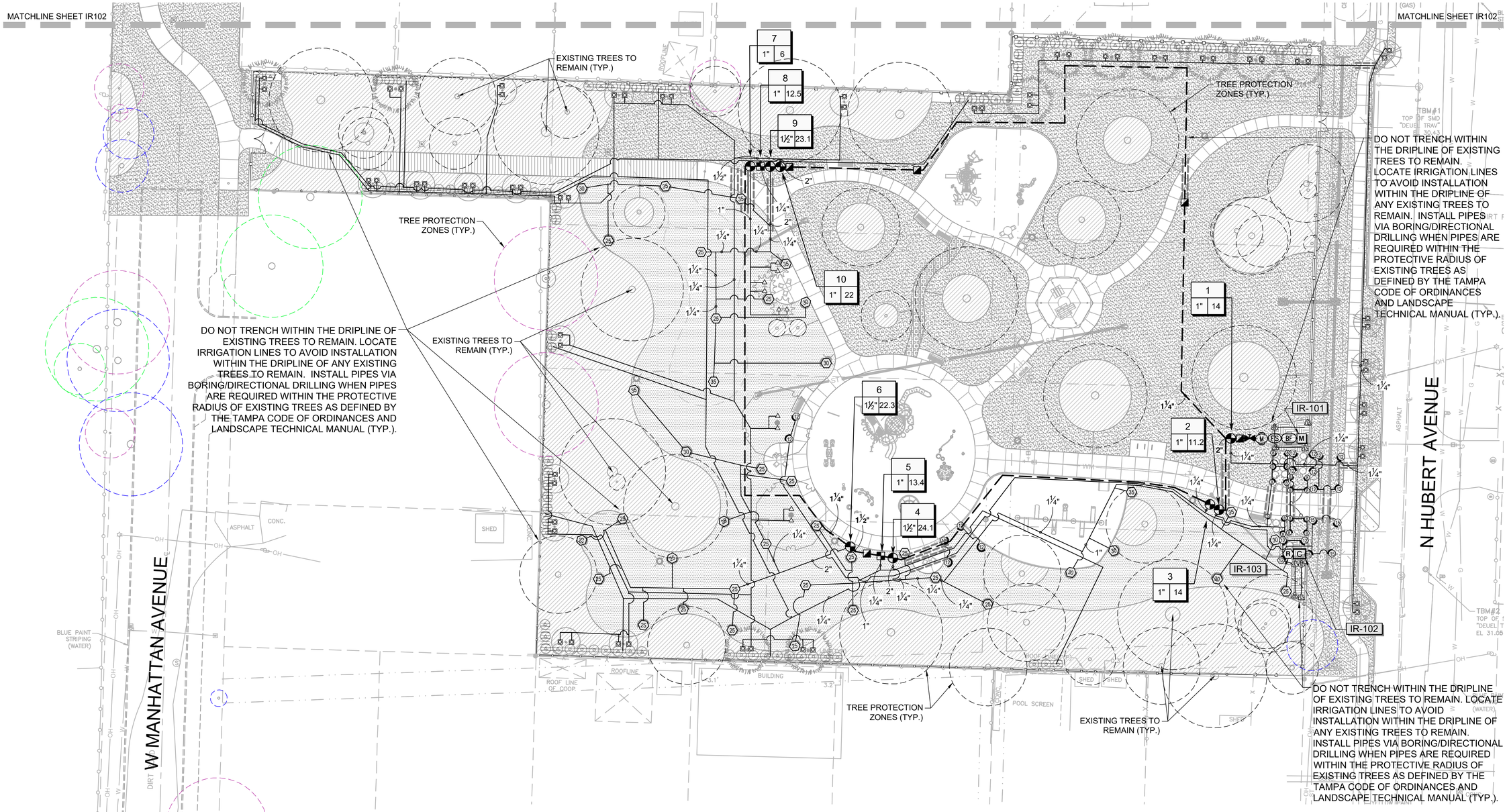
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Sales Rep: KARINA MEINKE
Office: TAMPA
Contact No: (407) 629-6100
Processed By: FIVGAS, J.
Filename: 02-03-25 HUBERT AVENUE SP.AGI

HUBERT AVENUE PARK

LIGHTING CALCULATIONS

Date:2/3/2025



REFERENCE NOTES SCHEDULE

CODE	DESCRIPTION
IRRIGATION	
IR-101	INSTALL NEW IRRIGATION POINT OF CONNECTION AT POTABLE WATER SUPPLY. COORDINATE INSTALLATION OF 1-1/2" CITY IRRIGATION WATER METER AND 2" SERVICE LINE PER CITY REQUIREMENTS. SEE CIVIL SHEETS FOR POINT OF CONNECTION.
IR-102	IRRIGATION CONTROLLER. VERIFY FINAL LOCATION OF CONTROLLER WITH OWNER'S REPRESENTATIVE. COORDINATE ELECTRICAL CONNECTION AS REQUIRED.
IR-103	RAIN SENSOR TO BE INSTALLED ON CONTROLLER PEDESTAL OR ELECTRICAL RACK AND IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS. CONTRACTOR SHALL ENSURE RAINFALL IS NOT OBSTRUCTED BY ARCHITECTURAL OR MECHANICAL FEATURES. VERIFY FINAL LOCATION OF RAIN SENSOR WITH OWNER'S REPRESENTATIVE.

NOTES

1. SEE SHEET TP101-102 FOR TREE INVENTORY / PRESERVATION PLAN. SEE SHEET TP501 FOR TREE PRESERVATION DETAILS.
2. SEE SHEET LP101-102 FOR LANDSCAPE PLAN. SEE SHEET LP501 FOR LANDSCAPE DETAILS. SEE SHEET LP601 FOR LANDSCAPE NOTES. SEE SHEET LP602 FOR LANDSCAPE SPECIFICATIONS.
3. IRRIGATION PLAN: UNDERGROUND IRRIGATION SYSTEM TO ENSURE 100% COVERAGE FOR ALL SHRUBS, GROUNDCOVERS, GRASSES, TREES, AND TURF AREAS. SEE SHEET LP601 AND IR101-IR102, IR501-502, AND IR601 FOR IRRIGATION REQUIREMENTS.
4. VERIFY ALL SYSTEM REQUIREMENTS PRIOR TO BID. IRRIGATION ZONE AREAS ARE AN ESTIMATE. CONTRACTOR SHALL VERIFY TOTAL AREA REQUIRED PRIOR TO BID.
5. IRRIGATION SLEEVES MAY NOT BE SHOWN TO ENSURE CLARITY OF LINE WORK. CONTRACTOR TO INSTALL ALL IRRIGATION PIPE AND CONTROL WIRES IN SLEEVES BELOW ALL PAVED SURFACES. SLEEVE SIZE SHALL BE TWO (2) TIMES THE DIAMETER OF PIPE(S) TO BE SLEEVED.
6. TREE BUBBLERS,TURF ZONES AND SHRUB ZONES SHALL BE ON SEPARATE ZONES. PROVIDE RAIN BIRD OR HUNTER COMMERCIAL GRADE CONTROL VALVES.
7. IRRIGATION HEADS, CONTROLLERS, CONTROL VALVES, QUICK COUPLERS, AND ACCESSORIES SHALL BE HUNTER OR RAIN BIRD NEW COMMERCIAL GRADE PRODUCTS.
8. IRRIGATION WITHIN TREE PROTECTION ZONES: IRRIGATION LINES SHALL BE HAND DUG OR TUNNELED UNDER ROOTS WITHIN TREE PROTECTION ZONES OF EXISTING TREES, RATHER THAN TRENCHED.

NORTH

GRAPHIC SCALE 0' 10' 20' 40'

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Prepared By:

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Phone: (813) 644-8333

Prepared For:

City of Tampa
306 East Jackson Street
Tampa, Florida 33602

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Hubert Avenue Park & Right-Of-Way Improvements

4106, 4108, & 4110 N. Hubert Ave + 4115 N. Manhattan Tampa, Florida

Seal

BID SET

REV	DATE	DESCRIPTION
1		
2		
3		
4		
5		

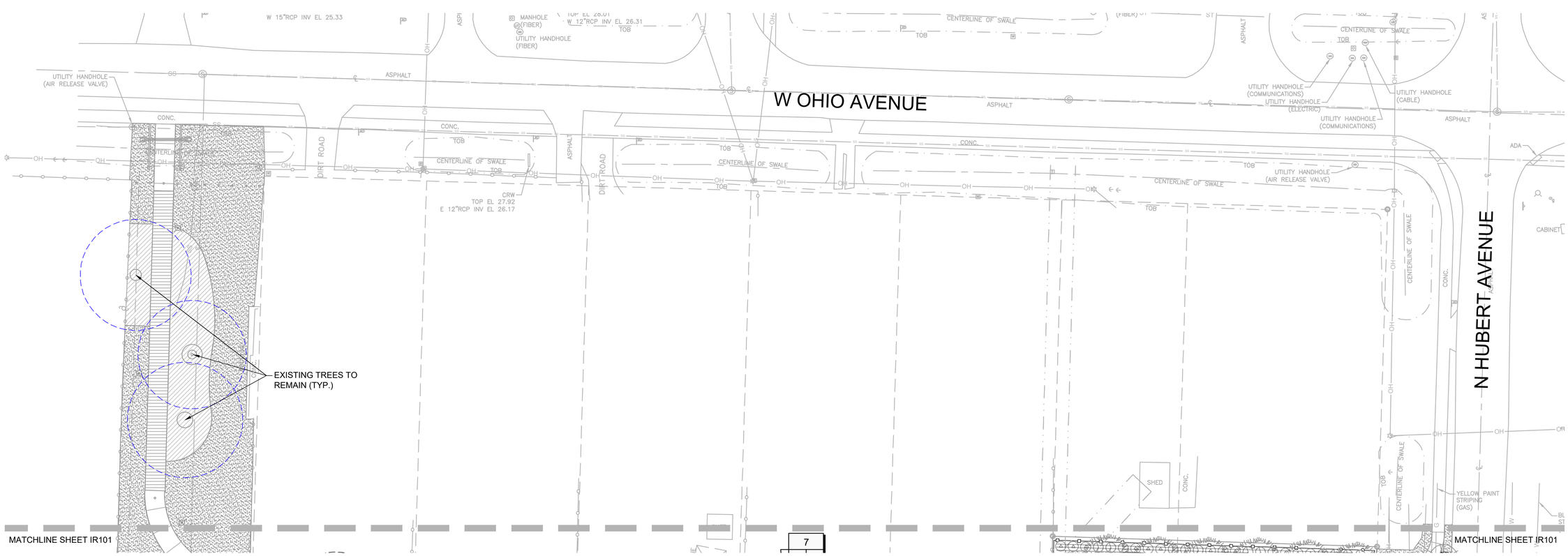
Date:	**MAY 15, 2026**
Job No.:	**8702**
Drawn By:	**GLA**
Checked By:	**CJA**

Sheet Title

IRRIGATION PLAN

Sheet No.

IR101



IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	PSI
Q T H F	Rain Bird 1806 8 Series MPR Turf Spray 6.0in. Pop-Up Sprinkler with Co-Molded Wiper Seal. Side and Bottom Inlet. 1/2in. NPT Female Threaded Inlet.	8	30
Q T H TQ F	Rain Bird 1806 12 Series MPR Turf Spray 6.0in. Pop-Up Sprinkler with Co-Molded Wiper Seal. Side and Bottom Inlet. 1/2in. NPT Female Threaded Inlet.	10	30
Q T H TQ F	Rain Bird 1806 15 Series MPR Turf Spray 6.0in. Pop-Up Sprinkler with Co-Molded Wiper Seal. Side and Bottom Inlet. 1/2in. NPT Female Threaded Inlet.	4	30
EST LCS RCS CST SST	Rain Bird 1812 15 Strip Series Shrub Spray 12in. Pop-Up Sprinkler with Co-Molded Wiper Seal. Side and Bottom Inlet. 1/2in. NPT Female Threaded Inlet.	8	30
Q H F	Rain Bird 1812 5 Series MPR Shrub Spray 12in. Pop-Up Sprinkler with Co-Molded Wiper Seal. Side and Bottom Inlet. 1/2in. NPT Female Threaded Inlet.	1	30
Q T H F	Rain Bird 1812 8 Series MPR Shrub Spray 12in. Pop-Up Sprinkler with Co-Molded Wiper Seal. Side and Bottom Inlet. 1/2in. NPT Female Threaded Inlet.	8	30
Q T H TQ F	Rain Bird 1812 12 Series MPR Shrub Spray 12in. Pop-Up Sprinkler with Co-Molded Wiper Seal. Side and Bottom Inlet. 1/2in. NPT Female Threaded Inlet.	7	30
1401 1402 1404	Rain Bird 1804-1400 Flood Flood Bubbler 4.0in. popup, install w/ PA-80 adapter.	74	30

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	PSI	GPM	RADIUS
25	Hunter I-20-06-MPR 25 Turf Rotor, 6in. Pop-Up. Adjustable and Full Circle. Plastic Riser. Drain Check Valve. MPR Nozzle.	25	25		23'
30	Hunter I-20-06-MPR 30 Turf Rotor, 6in. Pop-Up. Adjustable and Full Circle. Plastic Riser. Drain Check Valve. MPR Nozzle.	8	25		29'
35	Hunter I-20-06-MPR 35 Turf Rotor, 6in. Pop-Up. Adjustable and Full Circle. Plastic Riser. Drain Check Valve. MPR Nozzle.	7	25		32'

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	PSI
	Rain Bird XCZ-100-LC Wide Flow Drip Control Kit, for Light Commercial Uses. 1in. PEB Valve, with 1in. Pressure Regulating 40psi Basket Filter. 0.3-20 GPM.	2	
	Area to Receive Dripline Rain Bird XFD-09-12 XFD On-Surface Pressure Compensating Landscape Dripline. 0.9 GPH emitters at 12" O.C. Dripline laterals spaced at 12" apart, with emitters offset for triangular pattern. UV Resistant. Use XF insert fittings.	1,726 sf	20

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
	Irritrol 214B Electric Remote Control Valve, globe/angle configuration	8
	Rain Bird 3-RC 3/4in. Brass Quick-Coupling Valve, with Corrosion-Resistant Stainless Steel Spring, Thermoplastic Rubber Cover, and 1-Piece Body.	5
	Nibco 4660-T NSF/ANSI Standard 14 (1/2"-2" sizes). PVC Ball Valve, Threaded. The NIBCO® PVC Schedule 80 ball valve features a one-piece molded body, convenient quarter-turn action, and a female threaded connection.	1
M	Irritrol 214B Master Valve 1" Electric Master Valve, globe/angle configuration	1
BF	Zurn 975XL2 1" Approved Reduced Pressure Backflow device per industry standards and applicable codes. See Civil sheets.	1
C	Motorola A/C IRRInet-M 12 station controller assembly with UHF HT750 external radio kit (Model No. IMDC-12-RX-S18P-AHT-SA-X) and Millennium UHF Lo-Pro antenna. Contact: Central Control Systems, LTD for purchasing information: (530) 662-6841, ccs@controlsystems.com. Controller system shall include IC-SB10 8 output, 2 input switchboard with programmable switch button. Controller system shall include surge protector such as North Technologies TCS-HWR or approved equal. Controller system shall include GFI outlet, power switch, and A/C power connection. Controller shall include wiring, conduit, grounding hardware and all other necessary equipment and hardware. Controller shall be installed in a stainless steel enclosure such as Strong Box Model No. SB-24SS (or approved equal) with pedestal assembly on concrete slab; installed per manufacturer recommendations. Enclosure shall be sized as needed to accommodate the controller, radio kit, panel boards, and other appurtenances. 10. Contactors for irrigation control wiring shall be provided	1
R	Rain Bird WR2-RFC Wireless Rain and Freeze Sensor Combo, includes 1 receiver and 1 rain/freeze sensor transmitter.	1
FS	Master Meter Flow Meter Flow meter by Master Meter Inc. matched to the water meter size, with a 1 or 10 gallon pulse depending on zone GPM. Provide a complete unit from the manufacturer including compatible meter and digital register. Wiring from flow meter to controller must be 14-2 Maxi-com shielded cable. No splices should be made in the Maxi-com cable. Maxi-com to be run under main line or in conduit.	1

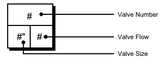
M — Water Meter 1-1/2"
Potable water connection. Irrigation system is designed based on an assumed maximum of 41 GPM available and assumed static water pressure of 58 PSI available at the point of connection per hydrant flow test on 3/6/2025. Verify pessure and flow rate prior to bid.

Irrigation Lateral Line: PVC Class 200 SDR 21
All lateral lines shall be a minimum of one (1) inch unless otherwise indicated on the plans.

Irrigation Mainline: PVC Schedule 40

Pipe Sleeve: PVC Schedule 40
Sleeve size shall be two (2) times the diameter of pipe(s) to be sleeved below all paved surfaces. Extend sleeves 12 inches beyond edges of paving.

Valve Callout



VALVE SCHEDULE

NUMBER	MODEL	SIZE	TYPE	GPM	DESIGN PSI	PSI	PSI @ POC	PRECIP
1	Irritrol 214B	1"	Bubbler	14	30	35.3	51.3	1.9 in/h
2	Irritrol 214B	1"	Shrub Spray	11.17	30	32.8	48.9	1.55 in/h
3	Irritrol 214B	1"	Turf Spray	14	30	32.8	49	1.12 in/h
4	Irritrol 214B	1-1/2"	Turf Rotor	24.12	25	29.3	48.1	0.68 in/h
5	Rain Bird XCZ-100-LC	1"	Area for Dripline	13.4	20	38.3	55	1.44 in/h
6	Irritrol 214B	1-1/2"	Turf Rotor	22.3	25	28.5	46.9	0.72 in/h
7	Irritrol 214B	1"	Bubbler	6	30	33.5	51.3	4.02 in/h
8	Rain Bird XCZ-100-LC	1"	Area for Dripline	12.5	20	36.7	53.9	1.45 in/h
9	Irritrol 214B	1-1/2"	Turf Rotor	23.12	25	28.7	49.3	0.53 in/h
10	Irritrol 214B	1"	Bubbler	22	30	35.1	55.1	2.11 in/h

CRITICAL ANALYSIS

Generated: 2025-09-16 09:27

P.O.C. NUMBER: 01
Water Source Information: Potable water connection. Irrigation system is designed based on an assumed maximum of 41 GPM available and assumed static water pressure of 58 PSI available at the point of connection per hydrant flow test on 3/6/2025.
Verify pessure and flow rate prior to bid.

FLOW AVAILABLE	
Water Meter Size:	1-1/2"
Flow Available	41.16 GPM
PRESSURE AVAILABLE	
Static Pressure at POC:	58 PSI
Elevation Change:	5.00 ft
Service Line Size:	2"
Length of Service Line:	20 ft
Pressure Available:	56 PSI
DESIGN ANALYSIS	
Maximum Station Flow:	24.12 GPM
Flow Available at POC:	41.16 GPM
Residual Flow Available:	17.04 GPM
Critical Station:	10
Design Pressure:	30 PSI
Friction Loss:	1.91 PSI
Fittings Loss:	0.19 PSI
Elevation Loss:	0 PSI
Loss through Valve:	2.96 PSI
Pressure Req. at Critical Station:	35.1 PSI
Loss for Fittings:	0.33 PSI
Loss for Main Line:	3.33 PSI
Loss for POC to Valve Elevation:	0 PSI
Loss for Backflow:	12 PSI
Loss for Master Valve:	3.38 PSI
Loss for Water Meter:	1 PSI
Critical Station Pressure at POC:	55.1 PSI
Pressure Available:	56 PSI
Residual Pressure Available:	0.89 PSI

NORTH

0' 10' 20' 40'
GRAPHIC SCALE

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Prepared By:

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High Point Engineering, Inc. (HPE)
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Phone: (813) 644-8333

MES Group
550 North Reo Street, Suite 203
Tampa Florida 33609
Phone: (813) 644-8333

Prepared For:

City of Tampa
306 East Jackson Street
Tampa, Florida 33602

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Hubert Avenue Park & Right-Of-Way Improvements

4106, 4108, & 4110 N. Hubert Ave + 4115 N. Manhattan
Tampa, Florida

Seal

BID SET

REV	DATE	DESCRIPTION
5		
4		
3		
2		
1		

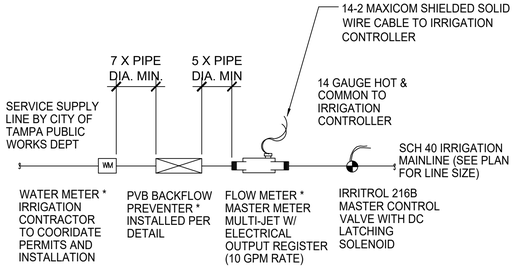
Date:	**MAY 15, 2026**
Job No.:	**8702**
Drawn By:	**GLA**
Checked By:	**CJA**

Sheet Title

IRRIGATION PLAN

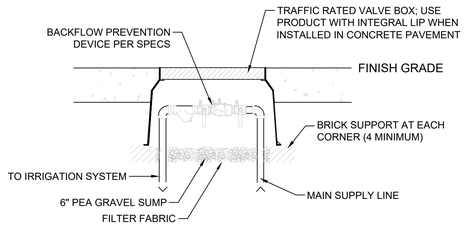
Sheet No.

IR102



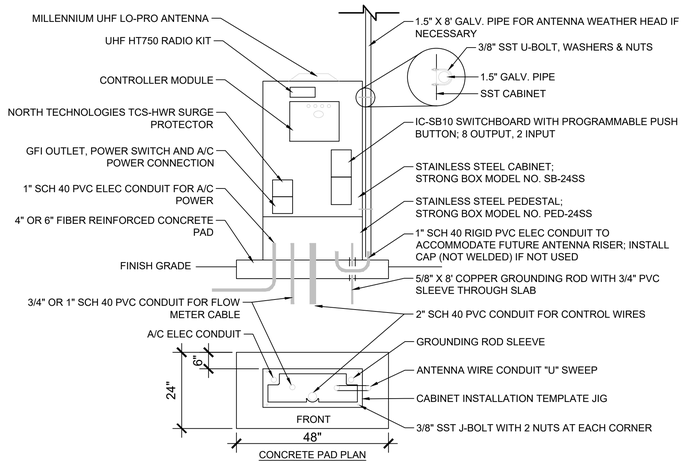
1 METER ASSEMBLY SCHEMATIC

N.T.S. P-HU-05



2 SUBSURFACE BACKFLOW PREVENTION DEVICE

N.T.S. P-HU-84



3 IRRINET - M AC CONTROLLER

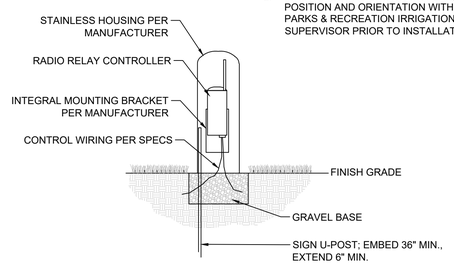
N.T.S. P-HU-86

NOTES

1. CONTROLLER SHALL BE 12 STATION MOTOROLA AC IRRINET-M CONTROLLER ASSEMBLY (MODEL NO.: IMDC-12-RZ-S18P-AHT-SA-X) WITH UHF EXTERNAL RADIO KIT AND UHF DOME ANTENNA KIT. FOR PURCHASING INFORMATION, CONTACT CENTRAL CONTROL SYSTEMS, LTD
   PO BOX 8683 WOODLAND, CA 95776
   P: 550-662-3776
   E: CCS@CONTROLSYSTEMS.COM
2. INSTALLATION SHALL INCLUDE ASSEMBLY, HOT TEST (IN SHOP), RADIO PROGRAMMING, AND OPTIMIZATION.
3. LOCATE CONTROLLER NEAR WATER SOURCE AS SHOWN ON PLAN; CONFIRM POSITION AND ORIENTATION WITH THE PARKS & RECREATION IRRIGATION SUPERVISOR PRIOR TO INSTALLATION.
4. INSTALL ELEVATED ANTENNA AND WEATHER HEAD ON PIPE RISER IF NECESSARY FOR SIGNAL CLARITY.
5. INSTALL WIRES LOOSE IN CONDUIT OR BUNDLED AND TAPED BELOW MAINLINE PER SPECIFICATIONS.
6. PARKS & RECREATION IRRIGATION STAFF WILL MAKE FINAL WIRE CONNECTIONS TO CONTACTORS.
7. CABINET INSTALLATION JIG AND HARDWARE SUPPLIED BY CABINET MANUFACTURER.

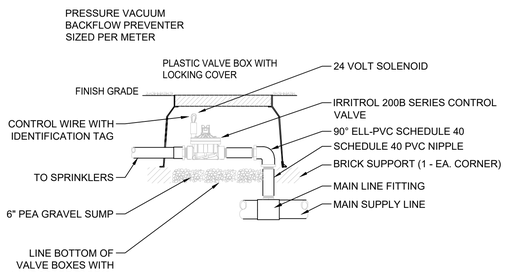
NOTES

1. FOR PURCHASING INFORMATION, CONTACT CENTRAL CONTROL SYSTEMS, LTD; PO BOX 8683 WOODLAND, CA 95776
   P: 550-662-3776
   E: CCS@CONTROLSYSTEMS.COM
2. LOCATE UNIT AS SHOWN ON PLAN; CONFIRM POSITION AND ORIENTATION WITH THE PARKS & RECREATION IRRIGATION SUPERVISOR PRIOR TO INSTALLATION



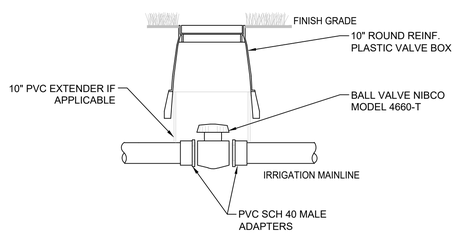
4 EXTERNAL RADIO KIT

N.T.S. P-HU-87



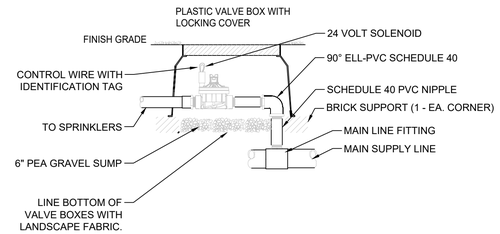
5 REMOTE CONTROL VALVE

N.T.S. P-HU-88



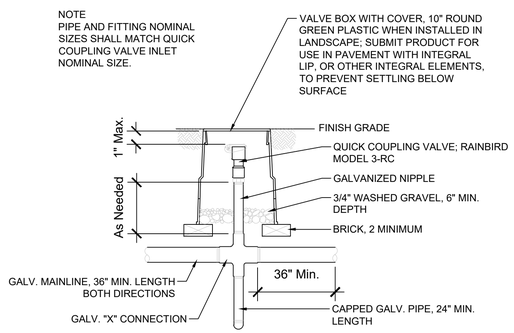
6 ISOLATION BALL VALVE

N.T.S. P-HU-89



7 IRRITROL 200B SERIES CONTROL VALVE

N.T.S. P-HU-90

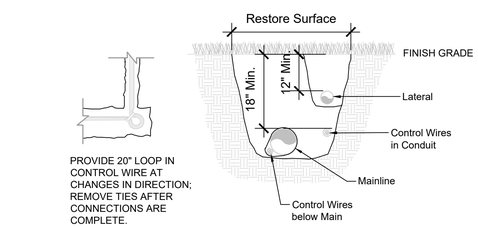


8 QUICK COUPLER VALVE

N.T.S. P-HU-91

NOTES

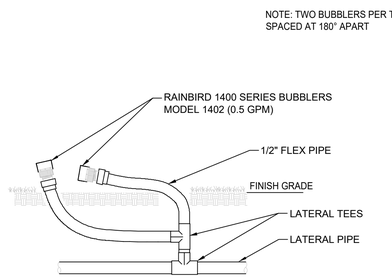
1. INSTALL 120 VOLT, OR GREATER, ELECTRICAL WIRE/CABLE IN CONDUIT; TYPE, DEPTH, AND LOCATION PER THE LATEST EDITION OF THE NEC.
2. CONTROL WIRES MAY BE INSTALLED BELOW MAINLINE OR IN DEDICATED CONDUIT PER SPECIFICATIONS.
3. RESTORE LAWN, PLANTING, OR PAVEMENT TO PRE-EXISTING CONDITION OR PER PLANS



9 IRRIGATION PIPE & CONDUIT TRENCHES

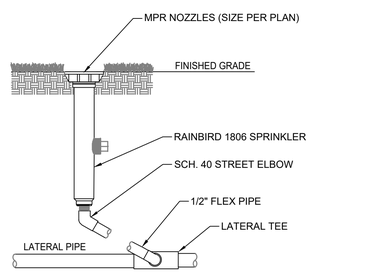
N.T.S. P-HU-92

NOTE: TWO BUBBLERS PER TREE SPACED AT 180° APART



10 RAINBIRD 1400 SERIES BUBBLER

N.T.S. P-HU-93



11 POP-UP SPRAY HEAD

N.T.S. P-HU-94

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Hubert Avenue Park & Right-Of-Way Improvements

4106, 4108, & 4110 N. Hubert Ave + 4115 N. Manhattan
Tampa, Florida

Seal

BID SET

REV	DATE	DESCRIPTION
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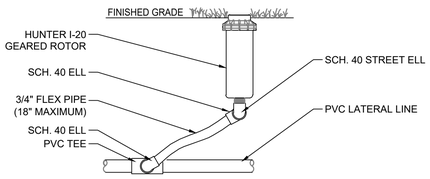
Date:	**MAY 15, 2026**
Job No.:	**8702**
Drawn By:	**GLA**
Checked By:	**CJA**

Sheet Title

IRRIGATION DETAILS

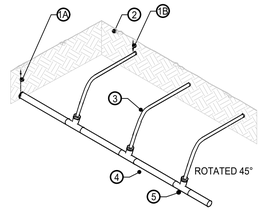
Sheet No.

IR501



IRRIGATION ZONE DEMAND GALLONS PER MINUTE (GPM)	SUPPLY MANIFOLD PIPE SIZE END AND CENTER FEED	EXHAUST MANIFOLD PIPE SIZE W/END FEED SUPPLY LINE	EXHAUST MANIFOLD PIPE SIZE W/END FEED SUPPLY LINE (TWO EXHAUST MANIFOLDS REQ'D)
0 - 6	3/4"	3/4"	3/4"
7 - 11	1"	1"	3/4"
12 - 19	1 1/4"	1 1/4"	1"
20 - 26	1 1/2"	1 1/2"	1 1/4"
27- 42	2"	2"	1 1/4"
43 - 60	2 1/2"	2 1/2"	2"
61 - 90	3"	3"	2"

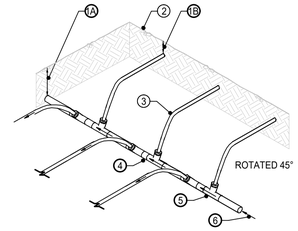
REFER TO EACH DRIPLINE IRRIGATION ZONE
ON PLAN DRAWINGS FOR ZONE GPM



1A 5"-6"
1B LAID ON FINISH GRADE STAKED EVERY 3'
2 FINISHED GRADE
3 RAINBIRD DRIPLINE (TYP.)
4 PVC SUPPLY/ EXHAUST MANIFOLD

NOTE: REGARDING SIZE OF EXHAUST MANIFOLD (SEE TABLE)

5 PVC TEE TO 1/2" SLIP X .620" O.D. TUBING COMPRESSION ADAPTERS



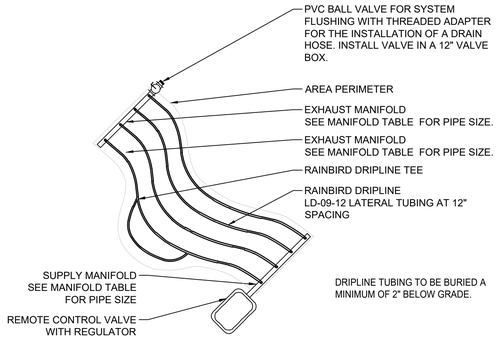
1A 5"-6"
1B LAID ON FINISH GRADE STAKED EVERY 3'
2 FINISHED GRADE
3 RAINBIRD DRIPLINE (TYP.)
4 PVC SUPPLY MANIFOLD

NOTE: REGARDING SIZE OF EXHAUST MANIFOLD (SEE TABLE)

5 PVC TEE TO RAINBIRD COMPRESSION ADAPTERS
6 FLOW FROM VALVE

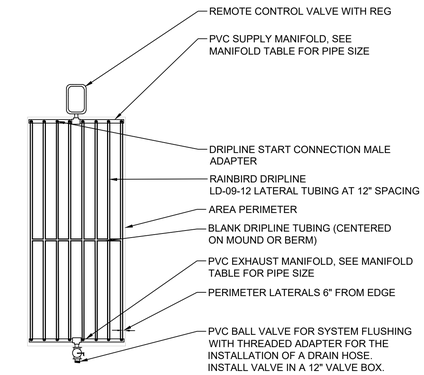
1 HUNTER I-20 GEAR ROTOR

N.T.S. P-HU-96



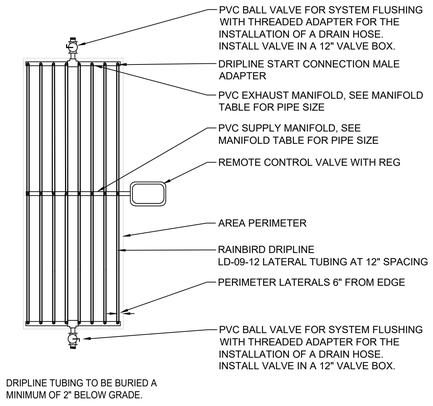
2 DRIPLINE SUPPLY AND EXHAUST MANIFOLD PIPE SIZE

N.T.S. P-HU-97



3 SUPPLY / EXHAUST MANIFOLD

N.T.S. P-HU-98



4 CENTER FEED SUPPLY MANIFOLD

N.T.S. P-HU-99

5 IRREGULAR AREAS: ODD CURVES

N.T.S. P-HU-101

6 END FEED LAYOUT

N.T.S. P-HU-102

7 CENTER FEED LAYOUT

N.T.S. P-HU-103

IRRIGATION NOTES

1. ALL WORK SHALL CONFORM TO ALL APPLICABLE STATE AND LOCAL REGULATIONS AND CODES FOR THE LOCATION OF WORK. CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND INSPECTIONS REQUIRED TO COMPLETE WORK.
2. CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS PRIOR TO CONSTRUCTION AND THE COST FOR SUCH ARE TO BE INCLUDED AS PART OF THE BID.
3. THE CONTRACTOR SHALL INSPECT THE SITE AND VERIFY CONDITIONS AND DIMENSIONS PRIOR TO DESIGN AND CONSTRUCTION. ESTIMATED LINEAR FEET AND SQUARE FEET QUANTITIES IN IRRIGATION SCHEDULE DO NOT TAKE GRADE CHANGES INTO ACCOUNT. CONTRACTOR SHALL VERIFY ALL TOTAL QUANTITIES REQUIRED FOR COMPLETION OF WORK PRIOR TO BID.
4. THE IRRIGATION CONTRACTOR SHALL SUPPLY AS-BUILT DRAWINGS AND MATERIAL CUT SHEET UPON INSTALLATION COMPLETION AS AS A TERM OF FINAL ACCEPTANCE. THIS COST SHALL BE ACCOMMODATED IN THE BID.
5. IRRIGATION PLANS ARE SCHEMATIC REPRESENTATIONS ONLY. FIELD ADJUST LINES TO AVOID CONFLICT WITH UTILITIES.
6. IRRIGATION SYSTEM IS DESIGNED BASED ON ASSUMED WATER PRESSURE OF **58 PSI** AT POINT OF CONNECTION. VERIFY ACTUAL PRESSURE AND FLOW RATE PRIOR TO BID SUBMISSION AND NOTIFY OWNER'S REPRESENTATIVE IF DIFFERENCES ARISE BETWEEN ACTUAL PRESSURE AND DESIGN PRESSURE. CONTRACTOR SHALL PROVIDE A BOOSTER PUMP IF REQUIRED.
7. IRRIGATION IS COORDINATED WITH THE PLANTING PLAN AND SITE IMPROVEMENTS AND IS DESIGNED WITH TRIANGULAR SPACING GIVING HEAD TO HEAD COVERAGE. COORDINATE IRRIGATION HEAD LAYOUT WITH NEW PLANT MATERIALS, LOCATE SPRAY HEADS 30" FROM BASE OF TREE. DO NOT ALTER HEAD LOCATION, PIPE LAYOUT, OR VALVE LOCATION WITHOUT APPROVAL FROM THE CONSTRUCTION MANAGER. NOTIFY OWNER'S REPRESENTATIVE IF DISCREPANCIES OCCUR BETWEEN THE PLANS AND FIELD CONDITIONS.
8. COORDINATE IRRIGATION POINTS OF CONNECTION AND LOCATION OF AUTOMATIC CONTROL VALVES WITH PROJECT MANAGER. COORDINATE ALL WORK WITH OTHER TRADES, I.E. ELECTRICAL, MASONRY, ETC.
9. USE 45 ELLS INSTEAD OF 90 ELLS ON ALL MAINLINES 2-1/2" AND LARGER. INSTALL CONCRETE THRUST BLOCKS AT ALL MAINLINE CHANGES IN DIRECTION. POUR MINIMUM OF 1 CUBIC FOOT OF CONCRETE ON UNDISTURBED SOIL. WRAP PIPE IN PLASTIC WRAP PRIOR TO COVERING WITH CONCRETE.
10. THIS SYSTEM SHALL BE AUTOMATED AND SHALL AVOID THE APPLICATION (OR INDIRECT RUNOFF) OF WATER IN IMPERVIOUS AREAS AND EXISTING NATIVE VEGETATION.
11. ALL COMPONENTS OF IRRIGATION SYSTEM SHALL BE INSTALLED AND PROPERLY ADJUSTED TO PROVIDE ADEQUATE COVERAGE AND MINIMIZATION OF OVER SPRAY ONTO WALKS, BUILDINGS, PARKING AREAS, ETC.
12. IRRIGATION HEADS IN PLANTING BEDS SHALL BE 12" POP-UP MINIMUM AND 6" POP-UP MINIMUM IN SOD AREAS. RISERS, IF INSTALLED, SHALL BE PVC CONSISTENT WITH LATERAL PIPING. INSTALL QUICK COUPLERS AS REQUIRED OR AS NOTED.
13. INSTALL ALL IRRIGATION PIPE AND CONTROL WIRES IN SLEEVE BELOW ALL PAVED SURFACES UNLESS OTHERWISE INDICATED ON THE PLANS. SLEEVE SIZE WILL BE TWO (2) TIMES THE DIAMETER OF PIPE(S) TO BE SLEEVED. INSTALL SLEEVES PRIOR TO PLACEMENT OF PAVEMENTS AND PAVEMENT SUB-BASE.
14. PROVIDE POSITIVE DRAINAGE OF MAINLINE. PLACE MANUAL DRAIN AT LOW POINTS IN MAINLINE. IDENTIFY LOCATIONS ON AS-BUILTS.
15. ALL VALVE BOXES AND COVERS SHALL HAVE LOCKING LIDS AND A WATERPROOF, FADE-RESISTANT TAG. ALL QUICK COUPLERS SHALL BE INSTALLED IN VALVE BOXES. VALVE BOXES AND COVERS SHALL BE **GREEN.**
16. CONTRACTOR TO INSTALL CONTROLLER, PUMP EQUIPMENT, AND ALL IRRIGATION ACCESSORIES AS REQUIRED. CONTRACTOR TO FURNISH CONTROL WIRES FROM VALVES TO CONTROLLER. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING 110 VOLT SERVICE FROM BUILDING AND CONNECTION TO CONTROLLER SERVICE.
17. INSTALL ONE (1) ADDITIONAL RED CONTROL WIRE AND ONE (1) ADDITIONAL WHITE CONTROL WIRE FROM CONTROLLER TO END OF MAINLINE.
18. CONTROLLER GROUNDING: ALL GROUNDING AND INSTALLATION OF EQUIPMENT SPECIFIED, SHALL BE INSTALLED IN STRICT COMPLIANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REQUIREMENTS. THE CONTROLLER SHALL BE GROUNDED TO GROUND RODS WITH LESS THAN 10 OHMS RESISTANCE. PROVIDE 5/8" DIAMETER X 8' LONG COPPER CLAD STEEL GROUND RODS WITH 15' PRE-WELDED #6 AWG INSULATED GREEN-YELLOW WIRE (PAIGE ELECTRIC PART # 1820007IC6). THE RODS ARE TO BE DRIVEN INTO THE GROUND IN A VERTICAL POSITION OR AN OBLIQUE ANGLE NOT TO EXCEED 45 DEGREES AT A LOCATION 10 FEET FROM THE ELECTRONIC EQUIPMENT, THE GROUND PLATE, OR THE WIRES AND CABLES CONNECTED TO SAID EQUIPMENT. THE GROUNDING RODS SHALL BE COVERED BY A VALVE BOX. INSTALL ALL GROUNDING CIRCUIT COMPONENTS IN STRAIGHT LINES. REFERENCE THE GROUNDING DETAILS AND/OR PAIGE ELECTRIC WIRING GUIDE HTTPS://WWW.PAIGEWIRE.COM.
19. THE RAIN SHUTOFF DEVICE SHALL BE INSTALLED TO MEET LOCAL CODES AND/OR MINIMUM MANUFACTURER'S RECOMMENDATIONS. OBSTRUCTIONS, VANDALISM AND EASE OF SERVICE SHALL BE CONSIDERED IN LOCATING THE DEVICE. ALL WIRING BETWEEN THE RAIN SWITCH AND THE IRRIGATION CONTROLLER SHALL BE ENCLOSED IN 1/2" PVC ELECTRICAL CONDUIT. VERIFY FINAL LOCATION WITH OWNER'S REPRESENTATIVE.
20. IRRIGATION SLEEVING TO BE A MINIMUM OF SCHEDULE 40 PVC AND SHALL BE COORDINATED BY THE GENERAL CONTRACTOR. THE CONTRACTOR SHALL BE BE RESPONSIBLE FOR SLEEVING INSTALLATION UNLESS THIS WORK IS IN THE IRRIGATION SCOPE OF WORK. SLEEVING SHALL BE CLEARLY MARKED, FLAGGED, OR OTHERWISE DELINEATED ABOVE GRADE TO AVOID DAMAGE AND PROVIDE EASE OF LOCATION FOR FUTURE WORK. SLEEVES SHALL BE INSTALLED AT THE FOLLOWING DEPTHS: 24 INCHES, EXCEPT SLEEVES BENEATH VEHICULAR TRAFFIC SHALL BE INSTALLED AT 36 INCHES.
21. PIPE SIZING SHALL BE DETERMINED BY THE FRICTION LOSS METHOD AND WATER VELOCITY SHALL NOT EXCEED 5 CUBIC FEET PER SECOND. CONSTANT PRESSURE PIPING SHALL BE SCH 40 PVC. ALL PIPE SIZES INDICATED ARE MINIMUMS. CONTRACTOR MAY NOT DECREASE PIPE SIZE. LARGER PIPES MAY BE USED AT NO ADDITIONAL COST TO OWNER.
22. BACKFLOW PREVENTER AS REQUIRED PER INDUSTRY STANDARDS AND APPLICABLE CODES.
23. THE IRRIGATION SYSTEM SHALL BE PROPERLY MAINTAINED AND CONTRACTOR TO PROGRAM AUTOMATIC CONTROLLER CONSISTENT WITH WATER SCHEDULES ESTABLISHED BY THE PREVAILING WATER MANAGEMENT DISTRICT, OR THE MUNICIPALITY, WHICHEVER IS MORE RESTRICTIVE.
24. VERIFY INSTALLATION AND PARTS WARRANTY PRIOR TO CONTRACT EXECUTION.
25. THESE PLANS DO NOT EXPRESS OR IMPLY IN ANY WAY ANY TYPE OF TRADE WARRANTY OR MATERIAL GUARANTEE FROM THE MANUFACTURER AND NEITHER OFFERS ANY TYPE OF INSTALLATION WARRANTY NOR GUARANTEE OF ANY TYPE FOR THE FINISHED WORK. STARTING FROM THE DAY THE CONTRACTOR SIGNS CONTRACT CONTINUING IN PERPETUITY THE LANDSCAPE ARCHITECT HAVING NEITHER AFFILIATION WITH NOR CONTROL OVER EITHER THE CONTRACTOR OR HIS STAFF WILL BE HELD HARMLESS FOR ACTIONS OF THE CONTRACTOR AND HIS STAFF THAT MAY DAMAGE PROPERTY OR CAUSE PERSONAL BODILY INJURY. BY ACCEPTING THIS CONTRACT THE CONTRACTOR ACKNOWLEDGES HIS LIABILITY TO PAY THE FULL AMOUNT OF ANY AND ALL DAMAGE CLAIMS FILED AGAINST THE OWNERS PROPERTY, PROPERTY ADJACENT TO THE OWNER'S PROPERTY OR FOR ANY AND ALL PERSONAL INJURIES THAT RESULT DURING OR FROM THE INSTALLATION OF OR SUBSEQUENT OPERATION OF THIS SPRINKLER SYSTEM. CONTRACTOR SHALL INDEMNIFY THE LANDSCAPE ARCHITECT AND PAY ALL LEGAL FEES, FINES, COURT SETTLEMENTS, ANY AND ALL OTHER COSTS MENTIONED OR NOT MENTIONED HEREIN THAT MAY HAVE RESULTED FROM PROPERTY DAMAGE, PERSONAL BODILY INJURY OR ANY OTHER DAMAGE OR INJURY CAUSED DURING THE INSTALLATION OR OPERATION OF THIS SPRINKLER SYSTEM.
26. THE PURPOSE OF THIS IRRIGATION PLAN IS TO PROVIDE A PHYSICAL LAYOUT OF IRRIGATION EQUIPMENT TO ASSIST THE CONTRACTOR IN ACCURATELY ESTIMATING THE MATERIAL COST TO BID THE SPRINKLER SYSTEM. THE DESIGN INTENT IS TO PROVIDE THE CONTRACTOR WITH A DIAGRAMMATIC LAYOUT OF SPRINKLER EQUIPMENT, WHICH WILL PROVIDE ADEQUATE WATER COVERAGE FOR THE LANDSCAPE MATERIALS WITHIN THE SCOPE OF WORK UNDER THIS CONTRACT. THESE PLANS AND THE MATERIALS SPECIFIED ARE SUBJECT TO CHANGE WITHOUT NOTICE. PRIOR TO BIDDING THIS CONTRACT THE CONTRACTOR WILL VERIFY ALL IRRIGATION MATERIAL MODEL NUMBERS, DIMENSIONS, COMPATIBILITY OF COMPONENT ASSEMBLIES, MAINLINE AND ZONE HYDRAULICS, ELECTRICAL COMPONENTS, WIRING, ALL SLEEVES, WATER AND ELECTRICAL SOURCES, WATER PRESSURE AND G.P.M. AVAILABLE AND APPLICABLE SITE CONDITIONS, WHICH MAY ADVERSELY AFFECT EITHER THE COST OR PERFORMANCE OF THIS SPRINKLER SYSTEM. IF A CONFLICT IS FOUND THE CONTRACTOR WILL NOTIFY THE OWNER'S REPRESENTATIVE IN WRITING AND WILL NOT START THE WORK UNTIL THE OWNER HAS RESOLVED THE CONFLICT AND ISSUED IN WRITING A "NOTICE TO PROCEED". IF A CONFLICT IS FOUND AFTER THE CONTRACT HAS BEEN SIGNED THE CONTRACTOR WILL RESOLVE THE CONFLICT AT HIS OWN EXPENSE AND AT NO ADDITIONAL COST TO THE OWNER. SLEEVING UNDER SIDEWALKS MAY NOT BE SHOWN OR CALLED OUT DUE TO LACK OF SPACE ON PLANS. ONCE A BID HAS BEEN GIVEN TO THE OWNER FROM THE CONTRACTOR CHANGE ORDERS FOR EITHER ADDITIONAL MATERIALS OR TO CHANGE TO MATERIALS THAT ARE NOT FOUND ON THIS PLAN IS NOT ACCEPTABLE AND WILL NOT BE ALLOWED.
27. GUARANTEE: LANDSCAPE CONTRACTOR SHALL WARRANTY LAWNS AFTER INSTALLATION FOR 45 DAYS FOLLOWING ACCEPTANCE OF SITE BY OWNER'S REPRESENTATIVE. WARRANTY TREES AND SHRUBS FOR ONE YEAR FOLLOWING ACCEPTANCE OF SITE BY OWNER'S REPRESENTATIVE. MAINTAIN MATERIALS AFTER INSTALLATION FOR 45 DAYS FOLLOWING ACCEPTANCE OF SITE BY OWNER'S REPRESENTATIVE. REPLACE ALL UNHEALTHY OR DEAD PLANT MATERIAL FOUND DURING WARRANTY PERIOD. WARRANTY IRRIGATION SYSTEM MATERIALS AND LABOR FOR ONE YEAR FOLLOWING ACCEPTANCE OF SITE BY OWNER'S REPRESENTATIVE.
28. TEMPORARY IRRIGATION FOR LANDSCAPE MATERIAL WITHOUT IRRIGATION: CONTRACTOR SHALL COORDINATE AND PROVIDE PROVISIONS FOR TEMPORARY IRRIGATION. LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR HAND WATERING ALL EXISTING AND PROPOSED PLANT MATERIAL TO SUPPLEMENT RAINFALL AS REQUIRED DURING CONSTRUCTION AND 90 DAY PLANT ESTABLISHMENT PERIOD (90 DAYS AFTER FINAL ACCEPTANCE). LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR HAND WATERING IN ALL PLANTING AREAS UNTIL PLANT MATERIAL IS FULLY ESTABLISHED. CONTRACTOR SHALL REPLACE ANY PLANT MATERIAL LOST FROM INADEQUATE WATERING DURING 90 DAY ESTABLISHMENT PERIOD.

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Hubert Avenue Park & Right-Of-Way Improvements

4106, 4108, & 4110 N. Hubert Ave +
4115 N. Manhattan
Tampa, Florida

Seal

BID SET

REV	DATE	DESCRIPTION
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3		
4		
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Date:	**MAY 15, 2026**
Job No.:	**8702**
Drawn By:	**GLA**
Checked By:	**CJA**

Sheet Title

IRRIGATION DETAILS/NOTES

Sheet No.

IR502

IRRIGATION SPECIFICATIONS

SECTION 328400 - IRRIGATION

PART 1 - GENERAL

1.1 DESCRIPTION OF WORK

A. Furnish all materials, equipment and labor as necessary for the installation or repair of an irrigation system per project plans and/or scope of work described in the request for proposal. All work shall adhere to these specifications, city standard details, and general conditions of the contract.

B. Restore any facilities damaged or disturbed during the work to preconstruction condition or better. Restoration of facilities directly associated with the work shall be included in the initial proposal. Restoration of other facilities shall be completed at no additional cost to the City.

C. Related Work:

1. Trees, Plants, and Groundcovers (See Sheet LP602)
2. Sodding (See Sheet LP602)

1.2 RELATED DOCUMENTS:

A. Drawings and general provisions of Contract, including General Provisions, Supplementary General Provisions, Special Conditions, and Division - 1 Specification sections apply to work specified in this section.

1.3 QUALITY ASSURANCE:

A. Certification: Contractor shall hold a valid certificate from the state of Florida as a General Contractor, Plumbing Contractor, or Specialty Contractor (Irrigation) per Florida Statutes Chapter 489.

B. Workmanship: All work shall be installed by skilled personnel, proficient in the trades required, in a neat, orderly and responsible manner with recognized standards of workmanship. The Contractor shall have had considerable experience and demonstrated ability in the installation of sprinkler irrigation systems of this type.

1.4 SUBMITTALS:

A. Product Data: Submit manufacturer's technical data for all materials and installation instructions for underground sprinkler system prior to starting work on the project site.

B. Drawing Review: Review construction drawings and submit any proposed revisions or substitutions for consideration.

C. Shop Drawings: Submit complete irrigation system design or repair sketch when included as part of the scope of work. Drawings shall include all information necessary to review, permit, and install a complete irrigation system per these specifications and the standard details. Design shall be approved by City Representative prior to beginning work.

D. As-Built Drawings: Submit digital as-built drawings when included in the project scope. Drawings hall include the following minimum information:
1. Water source, type, location, and size
2. Power source location
3. Controller location, contactor diagram
4. Control valve/manifold locations
5. Location, depth and size of mainline.
6. Location of flow meter and communication cable
7. Location and depth of all bores and sleeves
8. Diagram of lateral lines and head configuration including zone identification.

E. Warranty Information: Submit manufacturer warranty documents for all installed products.

F. Irrigation Well: Submit all information necessary for the permitting and installation of an irrigation well when included on the project plans or request for proposal including, but not limited to the following items:
1. Recommended size and depth.
2. Shop drawings
3. Variable frequency drive (VFD) submersible pump, 5 1/2" HP typical.
4. Product data for each proposed piece of equipment.
5. Test reports including water quality, output, draw down rate, et al
6. SWFWMD and/or EPC permit.

PART 2 - PRODUCTS

2.1 RECLAIMED WATER COMPONENTS

A. When reclaimed water is utilized, all required components (e.g. pipe, valve covers, signs) shall be integrally colored purple to indicate the use of reclaimed water per State and local rules.

B. Signs as required by State and local rules.

C. Zone control valves shall be Rainbird PESB Series with integral scrubber.

2.2 PIPES, TUBES, AND FITTINGS

A. General: All main and lateral lines shall be PVC or CTS PE pipe unless otherwise specified on drawings. Secondary distribution lines, meter assemblies and other accessory components may use PVC or galvanized steel pipe as necessary and appropriate.
1. Pipe Size: Increased to allow expansion or nozzle size change.
   a. No flow shall exceed 4' per second.
   b. All laterals to heads will be 1" or larger on rotors and ¾" or larger on pop-ups, bubblers and Quick Couplers
   c. Nozzle and zone size will be calculated to provide maximum precipitation rate to reduce watering time based on meter size.
   d. No pipe smaller than ¾".
2. Sleeving: Install sleeves below all paved surfaces.
   a. Sleeves may be PE Pipe or PVC per City approval.
   b. 24" minimum cover or refer to project drawings.
   c. 36" minimum cover when installed below roadway or refer to project drawings.
   d. Sleeves shall be a minimum of 2 nominal sizes larger than the irrigation pipe(s) within.
   e. When sleeves contain both pressure pipe and wiring, wire shall be in conduit.
3. Conduit:
   a. Electrical conduit for 120 volt service, or greater, shall be selected and installed per the National Electric Code, latest edition.
   b. Conduit for low voltage control wiring shall be Sch 40 PVC, 18" minimum depth; gray color.
4. Pipe Fittings:
   a. ANSI B 16.3 galvanized malleable iron screwed fittings shall be used for all galvanized pipe.

B. Galvanized-Steel Pipe: ASTM A 53/A 53M, Standard Weight, Type E, Grade B.
1. ANSI B 16.3 galvanized malleable iron screwed fittings shall be used for all galvanized pipe
2. Galvanized-Steel Pipe Nipples: ASTM A 733, made of ASTM A 53/A 53M or ASTM A 106/A 106M, Standard Weight, seamless-steel pipe with threaded ends.
3. Cast-Iron Flanges: ASME B16.1, Class 125.
4. Paint with 2 coats of forest green enamel if exposed.

C. PVC Pipe: ASTM D 1785, PVC 1120 compound.
1. Schedule 80 upstream of master valve, Schedule 40 downstream of master valve.
2. PVC Socket Fittings: ASTM D 2466, Schedule 80 upstream of master valve, Schedule 40 downstream.
3. PVC Threaded Fittings: ASTM D 2464, Schedule 80.
4. PVC Socket Unions: Construction similar to MSS SP-107, except both headpiece and tailpiece shall be PVC with socket ends.
5. All connections, 4" and less, shall be Weld-On PC-64 purple primer and Weld-On PVC 702 clear cement.

D. PVC Flexible Swing Pipe Tubing: Flexible black tubing constructed of PVC with plasticizer(s) such as HydroMaxx, Ultra Flex or approved equal.
1. 1/2" nominal inside diameter minimum; outside diameter to fit standard IPS size connections.
2. Schedule 40 nominal, working pressure 100 PSI at 68° F minimum.
3. UV stable

E. PE Pressure Pipe: AWWA C906, with DR of 7.3, 9, or 9.3 and PE compound number required to give pressure rating not less than 200 psig. Fittings in first subparagraph below are available in NPS 1/2 to NPS 48 (DN 15 to DN 1200).
1. Copper Tube Sizing
2. PE Butt, Heat-Fusion Fittings: ASTM D 3261.
3. PE Socket-Type Fittings: ASTM D 2683.

F. PE Swing Pipe Tubing: Flexible black tubing constructed of linear low density polyethylene.
1. Minimum wall thickness of 0.098"
2. Nominal I.D. of 0.49"
3. Each 18" length of tubing shall be capable of pressure testing at the rate of 80 psi per second to a minimum burst pressure of 350 psi.
4. Tubing shall be capable of delivering 8 gpm maximum.

2.3 VALVES, WIRING, ETC

A. Manual Valves: PVC Schedule 40 ball valves unless otherwise noted herein or on the project drawings.

B. Electric Valves: Irritrol 200B series electric globe valve with flow control. AC or DC depending upon power source. If DC is specified, a separate common wire for each 6 zones must be installed. Master valve to be used with more than 2 zones of if main line crosses a roadway. No pressure regulator on valves.

C. Quick Coupling Valve:
1. Typical: Rainbird 3-RC with ¾" minimum service.
2. Athletic Fields: Rainbird 44RC with ½" minimum service
3. 2" minimum clearance around all valve operators
4. See project drawings for additional information

D. Automatic Valve Wiring: 14 gauge direct burial wire, color coded as follows: red for zones; blue for master valve and black for extras. Two black extra wires to be run to the furthest valve from controller in each direction. Wire splices shall be made at a common location, contained in a valve box and spliced using grease filled King wire nuts. All wire to be brought to timer location with 6' pigtail to facilitate hook-up. Provide 12 gauge white common wire for any runs over 100'.

E. Valve Box: Provide concrete or double wall concrete rated plastic box valve box with cover, size as needed, or as specified on drawings. Place level on brick or stone blacks. Provide a minimum of 2" of #57 stone below exposed PVC pipes. Top of valve installed flushed with finished grade.

2.4 SPRINKLERS

A. Sprinkler Heads: Manufacturer's standard unit designed to provide uniform coverage over entire area of spray shown on drawings at available water pressure and installed using flexible PVC pipe and Schedule 40 PVC connectors as follows:
1. Bubbler: Rainbird 1402 - 0.5 GPM on flexible PVC pipe (2 per tree).
2. Pop-up Spray: Rainbird 1800 series with nozzle to match application; do not use adjustable nozzles or pressure regulating sprays (PRS).
3. Rotor: Hunter I-20, I-25, or I-40 with nozzle match application. Use stainless steel products at ballfield clay locations or where indicated on plans.
4. Micro-Spray: Maxi-Jet products per project specific conditions; requires Department approval of system design and product specifications prior to installation.

2.5 EQUIPMENT:

A. Reduced Pressure Principle Backflow Prevention Assembly (RP or RPZ):
1. Zurn Model No. 975XL2 or approved equal.
2. Install 12" minimum above grade for drainage and inundation protection; see drawings for additional information.

B. Pressure Vacuum Breaker Backflow Prevention Assembly (PVB):
1. Submit product information for approval.
2. Install 12" minimum above all downstream piping and outlets; see drawings for additional information.

C. Computerized Irrigation Controller: Controller and cabinet supplied and installed by Contractor unless otherwise noted on the project drawings or agreed with P&R Dept.
1. Controller shall be a 12 station Motorola A/C IRRInet-M controller assembly with UHF HT750 external radio kit (Model No. IMDC-12-RX-S18P-AHT-SA-X) and Millennium UHF Lo-Pro antenna.
2. Contact: Central Control Systems, LTD for purchasing information: (530) 662-6841, ccs@controlsystems.com
3. New power source for A/C system. See electrical plans.
4. Controller system shall include IC-SB10 8 output, 2 input switchboard with programmable switch button.
5. Controller system shall include surge protector such as North Technologies TCS-HWR or approved equal.
6. Controller system shall include GFI outlet, power switch, and A/C power connection.
7. Controller shall include wiring, conduit, grounding hardware and all other necessary equipment and hardware.
8. Controller shall be installed in a stainless steel enclosure such as Strong Box Model No. SB-24SS (or approved equal) with pedestal assembly on concrete slab; installed per manufacturer recommendations. Enclosure shall be sized as needed to accommodate the controller, radio kit, panel boards, and other appurtenances.
9. Controller shall be used to control irrigation system.
10. Contactors for irrigation control wiring shall be provided as part of the complete controller package from the supplier. Auxiliary contactors (lighting, door locks, etc) shall not exceed 0.5 Amps on 24 AC control voltage; ABB model AF26-30-00-11 or approved equal.

D. Flow Meter: Computerized systems shall utilize a flow meter by Master Meter Inc. matched to the water meter size, with a 1 or 10 gallon pulse depending on zone GPM.
1. Provide a complete unit from the manufacturer including compatible meter and digital register.
2. Wiring from flow meter to controller must be 14-2 Maxi-com shielded cable. No splices should be made in the Maxi-com cable. Maxi-com to be run under main line or in conduit.

E. Rain Sensor: City Staff will provide and install rain sensor unless otherwise noted on the drawings.

PART 3 - EXECUTION

3.1 SYSTEM DESIGN:

A. Water Source: Potable

1. Typical potable irrigation service components in series:

WM	BF	FM	MV	ZV
water meter	Backflow Prevention	flow meter	master valve	zone valve

B. System design shall consider existing facilities and all proposed site improvements to avoid conflicts and provide the most efficient operation practical.

C. Design Pressures: Verify available water source and pressure prior to system design. Design system throughout to be compatible with available water source. Use reclaimed water whenever available.

D. Location of Valve Boxes: Irrigation zone valves shall be consolidated to minimize the space required. Do not install valve boxes, banks, manifolds in the use areas of athletic fields, lawns, open play fields, etc. Locate boxes away from maintenance vehicle routes, event load in/out locations, and other areas where vehicular traffic is anticipated.

E. Location of Heads: Design locations in accordance with accepted sprinkler practice to provide 100% head to head coverage. Make minor adjustments as necessary to avoid structures and other obstructions.

F. Minimum Water Coverage:
1. 100% of all landscape beds and turf areas.
2. Layout may be modified, if necessary to obtain coverage, and to suit manufacturer's standard heads. Do not decrease number of heads indicated unless otherwise acceptable to City Representative. Any proposed decrease must be approved by the City Representative.

G. Group valves close to water source in 1 or 2 locations. Planting beds, trees and turf areas shall be on separate zones.

H. Minimize wiring runs. Maximize use of lateral lines. Keep valves 5' from closest hardscape.

I. No flow shall exceed 4 feet per second.

J. Top of pipe to grade shall be:
1. Manifolds: 6"
2. Laterals: 12"
3. Mainlines: 18"

K. Design zones to have matched precipitation rates.

L. Do not use pressure-regulating sprinklers.

M. Install sprinklers 3 inches from curbs, hardscapes and structures to allow for edging.

Computerized irrigation system controller will be installed by the City Staff unless otherwise noted on the drawings. Verify controller location and orientation with the Parks & Recreation Irrigation Supervisor prior to installation of slab or control wiring.

N. No pipe smaller than ¾"

O. Quick Coupler Valve shall be installed in a traffic rated valve box at finish grade. Provide 3" of galvanized main line up to and after a galvanized T. Provide 2' of vertical galvanized pipe, capped at bottom. Mount QC valve on galvanized nipple, length as required. Quick Coupler to be on a separate main line (See Quick Coupler valve detail).

P. Coordinate and confirm water source and electric source.

3.2 ELECTRIC and WATER SERVICE:

A. Water Service: The contractor shall include in the bid price all costs associated with providing water service to system as required. This includes all applications and fees required by City of Tampa Water Department to provide service, connection fees and all materials and labor for a complete functioning system. Contractor shall be responsible for applying and paying for any new water meters as required.

B. Electric Service: Contractor shall include in bid price all costs associated with providing power service to system as indicated in the general provisions of the contract. This includes all applications, drawings and fees required by Tampa Electric Company (TECO) and the City of Tampa. All work to comply with City of Tampa codes and TECO standards for power connection. All costs associated with power installation and connection shall be the responsibility of the contractor.

C. Water and electric meters will be associated with City of Tampa accounts; coordinate with City Representative during the application process.

3.3 TRENCHING AND BACKFILLING:

A. General: Protect existing utilities, paving, plants, trees and other facilities caused by irrigation operations. Contractor shall be responsible for the repair of any damage to existing utilities and paving. Excavate straight and true with bottom uniformly sloped to low point.

B. Sunshine: Contactor shall be responsible for notifying underground utilities 48 hours prior to beginning work (800) 432-4770. No site work shall commence until all underground utilities have been properly located and identified.

C. Backfill: Backfill with clean material from excavation. Remove organic material as well as rocks and debris larger than 1" diameter. Place acceptable backfill material in 6" lifts, compacting each lift.

D. Existing Lawns: Where trenching is required across existing lawns, trench no wider than necessary to accommodate pipes.
1. Backfill trench to within 6" of finished grade. Continue fill with acceptable topsoil and compact to bring area to the elevation of existing lawn.
2. If trench is more than 6" in width, relay or plant new sod within 7 days after removal, roll and water generously.
3. Restore to original condition any sod areas not in healthy condition equal to adjoining lawns 30 days after planting.

E. Existing Trees:
1. Install pipes via boring/directional drilling when pipes are required within the protective radius of existing trees as defined by the Tampa Code of Ordinances and Landscape Technical Manual.

2. Trenching shall comply with the City of Tampa Code of Ordinances and Landscape Technical Manual; and minimize disturbance of existing tree roots. City Representative shall be present, prior to beginning work, to determine limits of root pruning and shall approve any work within protective radius of trees. Any required root pruning shall be performed per the Landscape Technical Manual and ANSI A-300.

F. Pavements:
1. Boring is the preferred method. Open cuts must be approved by City Representative. Where existing pavements must be crossed to install landscape irrigation system, saw cut straight clean lines 6" wider than trench.
2. Excavate trench to required depth and width.
3. Remove cut out pavement and excavated material from the site.
4. Backfill with dry sand fill material, placing in 6" lifts to meet City of Tampa compaction requirements.
5. Repair or replace pavement cuts with equivalent materials and finishes.
6. If a concrete sidewalk is cut or damaged, the full section must be replaced.
7. Piping under hardscape that is 5' wider or greater shall be sleeved.
8. Contractor is responsible for daily clean up of operations to include debris, directional bore slurry and any hydraulic fluids.

3.4 INSTALLATION

A. Refer to project drawings for additional information.

B. A pre-construction meeting will occur on site prior to commencement of work.

C. General: Contractor shall be responsible for filing and obtaining any required permits. All work must conform to City of Tampa standards and the Florida Building Code - Plumbing, latest edition. Any work taking place along a city, county or state road or median must comply with appropriate regulating authority guidelines for Traffic Control for Construction and Maintenance Operations.

D. Required Inspections and Testing:
1. Submit a report indicating the date, time, and results of all tests. City reserves the right to observe all testing. Provide a minimum of 24 hours notice.
2. Piping shall be inspected by the City Representative or permit inspector prior to covering.
3. Test mainlines at 50 PSI for 1 hour minimum.
4. Test all lateral lines, heads, valve connections, et al for leaks prior to covering.
5. Operate all irrigation zones prior to planting, sodding, or mulching.
6. Confirm each zone is operable by the centralized control (MIR) system. The GPM of each zone shall match the pre-existing value (repairs) or the design value (new installations).
7. Contact the City Representative prior to locating or testing any wires with toners or any power source, other than 12 volt DC, so staff can disconnect wiring from the computerized controller (MIR system).

E. Backflow Preventer: Install underground in a rectangular valve box with 6" gravel sump. Box of adequate size for easy testing access. Refer to drawings for additional information.

F. Control Valves: Install in valve box. Arrange in box for easy adjustment and removal.
1. Adjust size of automatic control valves to provide flow rate of rated operating pressure required for each sprinkler zone.
2. All zone wiring and Maxi-com cable to be installed under the main line or in conduit. Wiring that shares a sleeve with irrigation water lines shall be contained in its own conduit.

G. Provide 18" of straight uninterrupted PVC pipe in front of the Master Meter and 12" of straight behind.

H. Piping: Lay pipe on solid sub-base uniformly sloped.
1. Install PVC pipe in dry weather when temperature is above 40 degrees F in strict accordance with manufacturer's instructions. Allow joints to cure at least 24 hours at temperatures above 40 degrees F (4 degrees C) before testing, unless otherwise recommended by manufacturer. All PVC connections will be cleaned with purple primer prior to cementing.
2. Mainline depth shall be 18".
3. Lateral line depth shall be 12".

I. Sprinkler Heads: Flush circuit lines with full pressure and install nozzles after hydrostatic test is completed.
1. Install all heads at manufacturer's recommended heights.
2. Locate part-circle heads to maintain a minimum distance of 3" from curbs, hardscape and structures.
3. After completion of grading, seeding or sodding, and rolling of the grass areas, carefully adjust lawn sprinkler heads so they will be flush with grade.
4. Pop-ups installed on ½" flex hose using Schedule 40 PVC connectors.
5. Rotors to be installed on appropriate size flex hose using Schedule 40 PVC connectors. Ensure sprayer rotor water does not directly contact existing structures or hardscape areas.

J. Dielectric Protection: Use dielectric fittings at connection where pipes of dissimilar metal are joined.

K. Wiring:
1. Install wiring as shown on drawings from the point of connection to the controller, including a 6' minimum pig tail to accommodate final connections at controller.
2. Control wiring shall be collocated with mainline or installed in conduit
   a. When collocated with the mainline, control wires shall be bundled at 10' o.c. minimum and taped to the main at the same interval.
   b. When installed in conduit, control wires shall be loose and the conduit sized to allow future removal and installation of wire, but not less than 1" interior diameter.
   c. City staff will perform final wiring connections to contactors unless otherwise noted on the drawings.

L. Quick Coupler Valves:
1. Install coupler valve on an independent main line (do not collocate with irrigation zones).
2. Build and install per details on construction drawings. Provide 3" of galvanized main line up to and after a galvanized T. Provide 2' of vertical galvanized pipe, capped at bottom. Mount QC valve on galvanized nipple, length as required.
3. Install valve in traffic rated valve box at finish grade; assembly shall be arranged so that tap can be easily connected and operated; consider tap and hose size requirements.

M. Rain Sensor: City Staff will provide and install rain sensor unless otherwise noted on the drawings.

3.5 ACCEPTANCE:

A. Maintenance: Contractor is responsible for all maintenance of the system until final acceptance by City Representative and for the maintenance period specified in section Trees, Plants and Ground Covers.

B. Final Inspection: The inspection of irrigated areas will be made by the City Representative upon contractor's request. Provide notification at least 2 working days prior. The City Representative will provide a punch list of those items which must be corrected before re-inspection for final acceptance. The City Representative will set an appropriate time period in which the punch list items must be corrected.
1. Contractor to provide notification of at least 2 working days prior to inspection.
2. System to be run through electronically of all zones to ensure all components are working properly.
3. System to be run through City programming for one week prior to final acceptance.
4. As Built drawings: At project closeout, the Contractor shall submit complete electronic drawings showing any changes from approved shop drawing. These shall be included as part of required As-Built/Record Drawing requirement of the general provision and shall include the following:
   a. Irrigation system as installed.
   b. Water source location and size.
   c. Power source location.
   d. Changes to controller type or location.
   e. Changes in type or location of flow meter or master valve.
   f. Any wiring changes in location, number, type, color.
   g. Valve locations should be dimensioned and areas controlled identified.
   h. Location, depth and size of mainline and feeder lines. Off-set to main line requested.
   i. Location of maxi-com cable.
   j. Location and depth of all directional bores.

3.6 GUARANTEE:

A. Guarantee: All work shall be guaranteed by contractor for one year from date of final acceptance against all defects and malfunctions in materials, equipment and workmanship and shall be included as a part of the project closeout document requirements.
1. The guarantee shall also cover repair of damage to any part of the premises resulting from leaks or other defects in materials, equipment and workmanship, to the satisfaction of the City of Tampa. Repairs, if required, shall be done promptly at no cost to the City of Tampa. The contractor shall not be responsible for damage to the irrigation system by others. The guarantee shall state the name of the owner, provide full guarantee terms, effective and termination date, name and license number. It shall be signed by the chief executive of the contracting firm and notarized. Manufacturer's warranties shall not relieve the contractor of his liability under the guarantee. Such warranties shall only supplement the guarantee.
2. The contractor shall make necessary repairs within 72 hours notice. If the Contractor neglects to make or undertake the repairs with the due diligence, the City of Tampa may make such repairs at the contractor's expense. In the case of an emergency where in the judgment of the City of Tampa, delay would cause loss or damage, repairs or replacement may be mad without notice being sent to the contractor and the contractor shall pay the cost thereof.

END OF SECTION 32 84 00

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Hubert Avenue Park &
Right-Of-Way
Improvements

4106, 4108, & 4110 N. Hubert Ave +
4115 N. Manhattan
Tampa, Florida

Seal

BID SET

REV DATE DESCRIPTION

Date:	**MAY 15, 2026**
Job No.:	**8702**
Drawn By:	**GLA**
Checked By:	**CJA**

Sheet Title

IRRIGATION SPECIFICATIONS

Sheet No.

IR601