

SECTION 15, TOWNSHIP 29 SOUTH, RANGE 18 EAST

MACFARLANE PARK FREEDOM PLAYGROUND EXPANSION

CITY OF TAMPA HILLSBOROUGH COUNTY, FLORIDA

PROPERTY LOCATION: 1700 N. MACDILL AVENUE, TAMPA, FL 33607
 EXISTING FOLIO: 180631-0100
 PROPERTY SITE AREA: ±30.21 ACRES
 TOTAL PROJECT AREA: ±0.35 ACRES
 EXISTING LAND USE: 8900 MUNICIPAL (RECREATIONAL PARK)
 PROPOSED LAND USE: 8900 MUNICIPAL (RECREATIONAL PARK)
 PROPERTY ZONING: RS-50 (RESIDENTIAL SINGLE FAMILY)
 FUTURE LAND USE: RESIDENTIAL 10
 FLOOD ZONE: THE PROPERTY SHOWN HEREON APPEARS TO LIE IN FLOOD ZONE "X" ACCORDING TO THE FLOOD INSURANCE RATE MAP COMMUNITY PANEL 12057C 0353H, EFFECTIVE AUGUST. 28, 2008

SITE AREA DATA (PROPOSED):

| | | |
|----------------------------|----------|-------------|
| ADDITIONAL IMPERVIOUS AREA | 3,659 SF | (±0.084 AC) |
| ADDITIONAL POND AREA | 390 SF | (±0.009 AC) |



VICINITY
MAP



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|------------------|--------------------------------------|
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LEGAL DESCRIPTION:
 MAC FARLANE PARK PARK LESS R/W FOR I-275

PROJECT TEAM:

OWNER/DEVELOPER:
 CITY OF TAMPA
 PARKS & RECREATION DEPARTMENT
 306 EAST JACKSON STREET
 TAMPA, FL 33602

CIVIL ENGINEER:
 HARDEMAN KEMPTON & ASSOC.
 2207 W. NORTH A STREET
 TAMPA, FL 33606
 (813) 258-0066
 VICTOR HUGGINS

LANDSCAPE ARCHITECT:
 HARDEMAN KEMPTON & ASSOC.
 2207 W. NORTH A STREET
 TAMPA, FL 33606
 (813) 258-0066
 JASON RINARD

SURVEYOR:
 IMPACT SURVEYING & MAPPING, INC.
 7815 N. DALE MABRY HWY., STE 107
 TAMPA, FL 33614
 (813) 644-6570

UTILITY PROVIDERS:

WATER AND SEWER
 TAMPA WATER DEPARTMENT
 306 EAST JACKSON STREET
 TAMPA, FL 33602
 (813) 274-7109

SEWER
 TAMPA WATER DEPARTMENT
 32545 GUY N VERGER BLVD
 TAMPA, FL 33605
 (813) 274-8095
 JACK FERRAS

GAS SERVICE
 TECO PEOPLES GAS
 8416 PALM RIVER RD
 TAMPA, FL 33619
 (813) 275-3783
 JOAN DOMNING

POWER
 TAMPA ELECTRIC COMPANY
 P.O. BOX 111
 TAMPA, FL 33601
 (813) 275-3037
 JASON COOPER

PHONE / DATA / CABLE
 CHARTER COMMUNICATIONS
 4145 S FALKENBURG RD
 RIVERVIEW, FL 33578
 (813) 436-2143
 RANDY LYLE

PHONE / DATA / CABLE
 FRONTIER COMMUNICATIONS
 3712 W WALNUT ST
 TAMPA, FL 33607
 (813) 875-1014
 TONI CANNON

| PERMIT TYPE. | PERMIT NO. | STATUS | APPROVAL DATE | EXPIRATION DATE |
|---------------|--------------|-----------|---------------|-----------------|
| CITY OF TAMPA | | IN REVIEW | | |
| SWFWMD | 43021889.005 | APPROVED | 10/28/2019 | 10/28/2024 |



HARDEMAN - KEMPTON & ASSOCIATES, INC.

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Landscape Architecture Certificate
 of Authorization #LC0000267

Engineering Business Certificate
 of Authorization No. #26775

PREPARED FOR:
 CITY OF TAMPA
 PARKS & RECREATION
 DEPARTMENT
 306 EAST JACKSON STREET
 TAMPA, FL 33602

PROJECT NAME:
 MACFARLANE PARK
 FREEDOM PLAYGROUND EXPANSION

SHEET TITLE:
 COVER SHEET

| NO. | DATE | DESCRIPTION |
|-----|----------|------------------------------|
| 1 | 10/16/19 | PER SWFWMD COMMENTS |
| 2 | 10/30/19 | REQUEST FROM COT PARKS & REC |
| 3 | 11/19/19 | REQUEST FROM COT PARKS & REC |

PROJ. NO.: C033019K
 DATE: 09-04-19
 DESIGNED:
 CHECKED:

THIS PLAN IS NOT VALID UNLESS
 SIGNED, DATED & RAISED SEAL
 AFFIXED OR PERMANENT INK SEAL

SHEET:

C0.0



ALL CONCEPTS, LAYOUTS, DELINEATIONS AND PLANS DEPICTED BY THIS DRAWING ARE THE PROPERTY OF HARDEMAN KEMPTON & ASSOCIATES, INC. AND WERE DEVELOPED FOR THIS SPECIFIC PROJECT. THESE CONCEPTS, LAYOUTS, PLANS AND DELINEATIONS ARE NOT TO BE TRANSFERRED TO ANY PERSON, FIRM OR CORPORATION FOR ANY PURPOSE WHATSOEVER WITHOUT THE WRITTEN APPROVAL OF HARDEMAN KEMPTON & ASSOCIATES, INC.

GENERAL NOTES

- THE LOCATION OF EXISTING UTILITIES ARE APPROXIMATE AS SHOWN AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE LOCATION OF THE UTILITIES PRIOR TO CONSTRUCTION IN THEIR VICINITY. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES IN THE AREA BEFORE BEGINNING CONSTRUCTION. NOTE THAT A GPR SCAN MAY BE NEEDED TO LOCATE PARK UTILITIES OUTSIDE OF RIGHT-OF-WAY.
- PRIOR TO BEGINNING WORK, THE CONTRACTOR SHALL EXPOSE ALL EXISTING UTILITIES TO BE EXTENDED OR CROSSED AND CONTACT THE ENGINEER AT 813-258-4066 FOR VERIFICATION OF THEIR LOCATION AND ELEVATION. ANY CONFLICTS SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION FOR RESOLUTION.
- ALL PRACTICAL AND NECESSARY EFFORT SHALL BE TAKEN DURING CONSTRUCTION TO CONTROL AND PREVENT EROSION AND TRANSPORT OF SEDIMENT MATERIAL TO INLETS AND SURFACE DRAINS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL RESTORATION EFFORTS THAT MAY BE REQUIRED.
- THE CONTRACTOR IS TO CONTROL ALL FUGITIVE DUST ORIGINATING ON THIS PROJECT BY WATERING OR OTHER METHODS AS REQUIRED.
- SPECIAL CARE SHALL BE TAKEN TO ENSURE THAT EXISTING TREES IDENTIFIED TO BE SAVED REMAIN UNDAMAGED DURING CONSTRUCTION. (REFERENCE CITY OF TAMPA LAND DEVELOPMENT CODE)
- ALL UNDERGROUND UTILITIES INCLUDING CONDUIT FOR ELECTRICAL AND TELEPHONE CROSSINGS SHALL BE INSTALLED PRIOR TO PAVEMENT CONSTRUCTION.
- ALL MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH CITY OF TAMPA STANDARDS AND SPECIFICATIONS OR ALTERNATE TECHNICAL SPECIFICATIONS PROVIDED BY ENGINEER.
- PIPE MEASUREMENTS ARE TO THE CENTER OF STRUCTURE FOR INLETS AND STORM MANHOLES. CURB INLET STATIONS ARE CALCULATED TO EDGE OF PAVEMENT. ALL PIPE LENGTHS ARE PLUS OR MINUS.
- CONFLICTS BETWEEN WATER LINES, SANITARY AND STORM SEWER TO BE RESOLVED BY ADJUSTING WATER LINES AS NECESSARY.
- THIS PROPERTY APPEARS TO FALL WITHIN FLOOD ZONE "X", AS SHOWN ON THE FLOOD INSURANCE RATE MAP 12057C, COMMUNITY PANEL NUMBER 0353 H, MAP REVISED 08-28-08.
- RELOCATION AND REPLACEMENT OF EXISTING UTILITIES AFFECTED BY PROPOSED CONSTRUCTION TO BE COORDINATED BY SITE CONTRACTOR.
- ANY ON-SITE WELLS NOT PROPOSED TO REMAIN ARE TO BE SEALED BY A LICENSED WELL CONTRACTOR.
- CONTRACTOR TO NOTIFY SUNSHINE STATE ONE CALL OF FLORIDA, INC. AND ANY OTHER UTILITY COMPANIES NOT REPRESENTED BY ONE CALL OF FLORIDA 48 HOURS PRIOR TO CONSTRUCTION FOR LOCATION OF EXISTING UTILITIES. CALL SUNSHINE AT 1-800-432-4770.
- CALL CITY OF TAMPA IRRIGATION SUPERVISOR MARK NEUBERGER AT 813-478-5280 AT LEAST 72 HOURS PRIOR TO CONSTRUCTION TO MARK EXISTING IRRIGATION UTILITIES ON SITE. NOTE THAT A GPR SCAN MAY BE NEEDED TO LOCATE PARK UTILITIES OUTSIDE OF RIGHT-OF-WAY.
- ALL UNDERGROUND UTILITIES MUST BE INSTALLED BEFORE SUB-BASE, BASE AND SURFACE ARE CONSTRUCTED.
- STAKED SILT FENCE WILL BE INSTALLED PRIOR TO EARTHWORK OPERATIONS COMMENCING AND IS TO BE MAINTAINED THROUGH PROJECT COMPLETION.
- ELEVATIONS DEPICTED HEREON BASED UPON N.A.V.D. 1988 DATUM USING CITY OF TAMPA BENCHMARK, DISK SET IN A CONCRETE MONUMENT, STAMPED "114-02-0085", ELEVATION 35.91'. THE CONVERSION FACTOR FROM NAVD88 TO NGVD29 IS: NAVD88 + 0.84' = NGVD29

REQUIRED SUBMITTALS

- CONTRACTOR TO SUBMIT APPROACH AND TREATMENT FOR MATERIALS AND SEPARATIONS TO ALL EXISTING / PROPOSED SURFACING BUTT JOINTS TO LANDSCAPE ARCHITECT FOR APPROVAL PRIOR TO CONSTRUCTION.
- CONTRACTOR TO SUBMIT COLOR SAMPLES FOR PIP RUBBER SURFACING FOR APPROVAL BY LANDSCAPE ARCHITECT PRIOR TO ORDERING/ INSTALLATION.
- CONTRACTOR TO LOCATE, IDENTIFY, AND NOTIFY LANDSCAPE ARCHITECT OF EXISTING IRRIGATION CONDITIONS AND/ OR ANY REQUIRED CHANGES FOR APPROVAL PRIOR TO CONSTRUCTION.
- CONTRACTOR TO SUPPLY FOOTER DIAGRAM AND DETAILS FOR ALL SITE FURNITURE AND PLAY EQUIPMENT TO LANDSCAPE ARCHITECT FOR APPROVAL PRIOR TO INSTALLATION. ALL SITE FURNITURE AND PLAY EQUIPMENT TO BE INSTALLED AS PER MANUFACTURER'S INSTRUCTION.
- CONTRACTOR TO NOTIFY LANDSCAPE ARCHITECT OF ANY REQUIRED CHANGES FOR APPROVAL PRIOR TO CONSTRUCTION.
- CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR RUBBER/ FLEXI-PAVE CONNECTIONS TO LANDSCAPE ARCHITECT FOR APPROVAL PRIOR TO CONSTRUCTION.
- CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR BIO-BARRIER INSTALLATION DETAILS TO LANDSCAPE ARCHITECT FOR APPROVAL PRIOR TO CONSTRUCTION.
- CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR PULSE TABLE ELECTRICAL DIAGRAM/ SCHEMATIC TO LANDSCAPE ARCHITECT FOR APPROVAL PRIOR TO INSTALLATION.

EXISTING LEGEND

| | |
|-------------|---------------------------------------|
| | TEMPORARY BENCHMARK |
| | WOOD UTILITY POLE |
| | CONCRETE LIGHT POLE |
| | GUY ANCHOR |
| | ELECTRIC METER |
| | ELECTRIC BREAKER BOX |
| | WATER METER |
| | HOSE BIB |
| | STORM MANHOLE |
| | STORM GRATE INLET |
| | SANITARY CLEANOUT |
| | SANITARY MANHOLE |
| | BOLLARD |
| | SIGN |
| | PINE TREE |
| | PAIM TREE |
| | OAK TREE |
| S.N.&D. | SET NAIL & DISC |
| W.I.F. | WROUGHT IRON FENCE |
| INV. | INVERT |
| ELEV. | ELEVATION |
| T.B.M. | TEMPORARY BENCHMARK |
| N.A.V.D.'88 | NORTH AMERICAN VERTICAL DATUM OF 1988 |
| P.S.M. | PROFESSIONAL SURVEYOR AND MAPPER |
| — OHW — | OVERHEAD WIRE |
| — TOB — | TOP OF BANK |
| — TOS — | TOE OF SLOPE |

LEGAL DESCRIPTION

MAC FARLANE PARK PARK LESS R/W FOR I-275

PAVING, GRADING AND DRAINAGE NOTES

- ALL UNDERGROUND UTILITIES INCLUDING CONDUIT FOR ELECTRICAL, IRRIGATION, CABLE TV AND TELEPHONE CROSSINGS SHALL BE INSTALLED BEFORE SUB-BASE. BASE AND SURFACE ARE CONSTRUCTED. CONTRACTOR TO COORDINATE INSTALLATION OF ANY ADDITIONAL CONDUIT LOCATIONS WITH OWNER.
- DURING LAND ALTERATION AND CONSTRUCTION ACTIVITIES, IT SHALL BE UNLAWFUL TO REMOVE VEGETATION BY GRUBBING OR TO PLACE SOIL DEPOSITS, DEBRIS, SOLVENTS, CONSTRUCTION MATERIAL, MACHINERY OR OTHER EQUIPMENT OF ANY KIND WITHIN THE DRIP LINE OF A TREE REMAINING ON SITE UNLESS APPROVED BY THE CITY.
- ALL TRIMMING UNDERTAKEN ON A TREE PROTECTED BY PROVISIONS OF LAND DEVELOPMENT CODE SHALL BE PRUNED IN ACCORDANCE WITH ANSI A300 STANDARDS, PER CHA. 13 AND 27 IN THE CITY OF TAMPA LAND DEVELOPMENT CODE AND SHALL BE COMPLETED BY A CERTIFIED ARBORIST.
- THE STAKED EROSION CONTROL SHALL BE INSTALLED PRIOR TO EARTHWORK OPERATIONS COMMENCING AND IS TO BE MAINTAINED THROUGH PROJECT COMPLETION.
- ALL DELETERIOUS SUBSTANCE MATERIAL (I.E. MUCK, PEAT, BURIED DEBRIS) IS TO BE EXCAVATED IN ACCORDANCE WITH THESE PLANS OR AS DIRECTED BY THE OWNER'S ENGINEER, OR OWNERS' SOIL TESTING COMPANY. DELETERIOUS MATERIAL IS TO BE STOCKPILED OR REMOVED FROM THE SITE AS DIRECTED BY THE OWNER. EXCAVATED AREAS ARE TO BE BACK FILLED WITH APPROVED MATERIALS AND COMPACTED AS SHOWN ON THESE PLANS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING EXCAVATIONS AGAINST COLLAPSE AND WILL PROVIDE BRACING, SHEETING, OR SHORING, AS NECESSARY. TRENCHES SHALL BE KEPT DRY WHILE PIPE AND APPURTENANCES ARE BEING PLACED. DEWATERING SHALL BE USED AS REQUIRED.
- MATERIALS AND CONSTRUCTION METHODS FOR STREETS AND STORM DRAINAGE CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LOCAL REGULATORY AGENCY.

EROSION AND SEDIMENTATION CONTROL NOTES

- THE INSTALLATION OF TEMPORARY EROSION CONTROL BARRIERS SHALL BE COORDINATED WITH THE CONSTRUCTION OF THE PERMANENT EROSION CONTROL FEATURES TO THE EXTENT NECESSARY TO ASSURE ECONOMICAL EFFECTIVE AND CONTINUOUS CONTROL OF EROSION AND WATER POLLUTION THROUGHOUT THE LIFE OF THE CONSTRUCTION PHASE.
- THE TYPE OF EROSION CONTROL BARRIERS USED SHALL BE GOVERNED BY THE NATURE OF THE CONSTRUCTION OPERATION AND SOIL TYPE THAT WILL BE EXPOSED. SILTY AND CLAYEY MATERIAL USUALLY REQUIRES SOLID SEDIMENT BARRIERS TO PREVENT TURBID WATER DISCHARGE. WHILE SANDY MATERIAL MAY NEED ONLY SILT SCREENS OR HAY BALES TO PREVENT EROSION. FLOATING TURBIDITY CURTAINS SHOULD BE USED IN OPEN WATER SITUATIONS. DIVERSION DITCHES OR SWALES MAY BE REQUIRED TO PREVENT TURBID STORMWATER RUNOFF FROM BEING DISCHARGED TO WETLANDS OR OTHER WATER BODIES. IT MAY BE NECESSARY TO EMPLOY A COMBINATION OF BARRIERS, DITCHES, AND OTHER EROSION/ TURBIDITY CONTROL MEASURES IF CONDITIONS WARRANT.
- WHERE PUMPS ARE TO BE USED TO REMOVE TURBID WATERS FROM THE CONSTRUCTION AREA, THE WATER SHALL BE TREATED TO REDUCE TURBIDITY TO STATE WATER QUALITY STANDARDS PRIOR TO DISCHARGE. TREATMENT METHODS INCLUDE, FOR EXAMPLE, TURBID WATER BEING PUMPED INTO GRASSED SWALES OR APPROPRIATE VEGETATED AREAS (OTHER THAN UPLAND PRESERVATION AREAS AND WETLAND BUFFERS), SEDIMENT BASINS, OR CONFINED BY AN APPROPRIATE ENCLOSURE SUCH AS TURBIDITY BARRIERS AND KEPT CONFINED UNTIL ITS TURBIDITY LEVEL MEETS STATE WATER QUALITY STANDARDS.
- THE CONTRACTOR SHALL PROVIDE ROUTINE MAINTENANCE OF PERMANENT AND TEMPORARY EROSION CONTROL FEATURES UNTIL THE PROJECT IS COMPLETE AND ALL BARE SOIL STABILIZED. SILTATION ACCUMULATIONS GREATER THAN THE LESSER OF 12 INCHES OR ONE-HALF THE DEPTH OF THE SILTATION CONTROL BARRIER SHALL BE IMMEDIATELY REMOVED AND PLACED IN UPLAND AREAS.
- WATER REMAINING IN THE EXCAVATIONS AFTER CONSTRUCTION MUST BE KEPT CONFINED WITHIN THE EXCAVATIONS PRIOR TO DISCHARGE (IF APPLICABLE), UNTIL THE TURBIDITY LEVEL OF THE POND WATER MEETS STATE WATER QUALITY STANDARDS.
- NO CLAY MATERIAL SHALL BE LEFT EXPOSED IN THE EXCAVATIONS. IF CLAY OR SANDY CLAYS ARE LEFT EXPOSED AT THE PERMITTED DEPTH, THE CONTRACTOR SHALL OVER EXCAVATE THE POND'S BOTTOM AND SIDE SLOPES BY A MINIMUM OF 12 INCHES AND BACK FILL WITH CLEAN SANDS.
- PROVIDE ALL DISTURBED AREAS WITHIN THE LIMITS OF THE WORK WITH TEMPORARY SOIL EROSION CONTROL AND SEDIMENT CONTROL. UTILIZING EARTH DAMS & PONDS, GRADE TO DRAIN SWALES, SETTLING BASINS, SILT FENCES, STONE FILTERS, HAY BALE FILTERS, ETC. TREATING ALL SOIL SURFACES WITH SEEDED TOPSOIL AND / OR MULCH AFTER GRADING.
- ALL SOIL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE INSTALLED PRIOR TO ANY MAJOR SOIL DISTURBANCE OR IN THEIR PROPER SEQUENCE AND MAINTAINED UNTIL PERMANENT PROTECTION IS ESTABLISHED.
- CONSTRUCTION OPERATIONS SHALL BE CARRIED OUT IN SUCH A MANNER THAT EROSION AND AIR AND WATER POLLUTION WILL BE MINIMIZED STATE AND LOCAL LAWS SHALL BE COMPLIED WITH AT ALL TIMES.
- MINIMIZE THE AMOUNT OF BARE SOIL EXPOSED AT ONE TIME AND INSTALL SOIL EROSION CONTROL FENCES AS SHOWN AND IN SUCH A MANNER AS TO CAPTURE AND FILTER SURFACE WATER DURING CONSTRUCTION.
- PERMANENT VEGETATION SHALL BE BY SEEDING OR SODDING ALL EXPOSED AREAS WITHIN THREE DAYS AFTER FINAL GRADING. MULCH SHALL BE USED AS NECESSARY FOR PROTECTION UNTIL 75% GROWTH IS ESTABLISHED.
- AT THE TIME WHEN THE SITE PREPARATION FOR PERMANENT VEGETATIVE STABILIZATION IS GOING TO BE ACCOMPLISHED, ANY SOIL WHICH WILL NOT PROVIDE A SUITABLE ENVIRONMENT TO SUPPORT ADEQUATE VEGETATIVE GROUND COVER, SHALL BE REMOVED OR TREATED IN SUCH A WAY AS TO PERMANENTLY ADJUST THE SOIL CONDITIONS AND RENDER IT SUITABLE FOR VEGETATIVE GROUND COVER.
- ALL NEW EROSION AND SILT CONTROL METHODS AND LOCATIONS INDICATED ON THIS DRAWING ARE FOR STARTUP AND GENERAL REFERENCE AND SHALL BE ADJUSTED, AS REQUIRED TO SUIT THE PROCESS OF THE CONSTRUCTION.
- ALL DISTURBED AREAS WITHIN THE LIMITS OF CONSTRUCTION SHALL RECEIVE VEGETATIVE TREATMENT AFTER FINAL GRADING IN ACCORDANCE WITH THESE PLANS. DISTURBED AREAS NOT SPECIFICALLY DESIGNATED WITH A VEGETATIVE COVER SHALL BE VEGETATED AS FOLLOWS: POND SIDE SLOPES SHALL BE SODDED WITH ARGENTINE BAHIA UNLESS OTHERWISE NOTED ON LANDSCAPE PLANS.
- HAY BALES SHALL BE PLACED ON THE UPLAND SIDE AND ADJACENT TO ALL SILT FENCE WHICH IS ADJACENT TO WETLAND AREAS TO PROVIDE ADDED SILTATION PROTECTION PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. THE HAY BALES SHALL BE REMOVED AT SUCH TIME AS THEIR PRESENCE IMPEDES CONSTRUCTION.
- IT IS NOT THE INTENT OF THESE PLANS TO SHOW ALL EROSION CONTROL TEMPORARY DRAINAGE AND INCIDENTAL CONSTRUCTION NECESSARY TO PREVENT EROSION. THE CONTRACTOR IS TO PROVIDE EROSION CONTROL/SEDIMENTATION BARRIER (HAY BALES OR SILTATION CURTAIN) TO PREVENT SILTATION OF ADJACENT PROPERTY, STREETS, STORM SEWERS AND WATERWAYS. IN ADDITION, CONTRACTOR SHALL PLACE STRAW, MULCH OR OTHER SUITABLE MATERIAL ON GROUND IN AREAS WHERE CONSTRUCTION RELATED TRAFFIC IS TO ENTER AND EXIT SITE. IF, IN THE OPINION OF THE ENGINEER AND/OR LOCAL AUTHORITIES, EXCESSIVE QUANTITIES OF EARTH ARE TRANSPORTED OFF-SITE EITHER BY NATURAL DRAINAGE OR BY VEHICULAR TRAFFIC, THE CONTRACTOR IS TO REMOVE AND CLEAN SAID EARTH TO THE SATISFACTION OF THE ENGINEER/AND/OR AUTHORITIES.
- SILT FENCE SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 104 OF THE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION 2019 OR LATEST EDITION. FILTER FABRIC FOR SILT FENCE AND INLET PROTECTION SHALL BE IN ACCORDANCE WITH SECTION 985 OF THE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION 2019 OR LATEST EDITION.
- RUBBLE RIPRAP SHALL BE IN CONFORMANCE WITH SECTION 530 OF THE FDOT FDOT STANDARD SPECIFICATIONS. FILTER FABRIC FOR CHECK DAMS SHALL BE IN ACCORDANCE WITH SECTION 514 OF THE FDOT STANDARD SPECIFICATIONS 2019 OR LATEST EDITION.
- EROSION AND SEDIMENTATION CONTROL DEVICES SHALL BE CONSTRUCTED AT THE LOCATIONS SHOWN ON DRAWINGS WHERE APPLICABLE OR AT LOCATIONS DETERMINED BY THE ENGINEER. THE QUANTITY OF TEMPORARY EROSION AND SEDIMENTATION CONTROL DEVICE MAY BE INCREASED OR DECREASED FROM THAT SHOWN IN THE DRAWINGS BASED ON WEATHER, CONSTRUCTION PROCEDURES AND ACTUAL SITE CONDITIONS THAT OCCUR DURING CONSTRUCTION. SUCH VARIATIONS WILL NOT BE CONSIDERED AS ALTERATIONS IN THE DETAILS OF CONSTRUCTION OR A CHANGE IN THE CHARACTER OF WORK.

| DISCIPLINE RESPONSIBLE FOR THE FOLLOWING SHEETS: | |
|--|--------------------------------------|
| Sheet Number | Sheet Title |
| C1.0 | GENERAL NOTES |
| C1.1 | STORMWATER POLLUTION PREVENTION PLAN |
| C2.0 | DEMOLITION & EROSION CONTROL PLAN |
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| C6.0 | CONSTRUCTION DETAILS |
| C6.1 | CONSTRUCTION DETAILS |

STATE OF FLORIDA, PROFESSIONAL ENGINEER, LICENSE NO. 60882, THIS ITEM HAS BEEN DIGITALLY SIGNED BY VICTOR M. HUGGINS, P.E. ON NOVEMBER 20, 2019 USING A DIGITAL SIGNATURE. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.



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Landscape Architecture Certificate of Authorization #LC0000267

Engineering Business Certificate of Authorization No. #26775

PREPARED FOR:
**CITY OF TAMPA
PARKS & RECREATION
DEPARTMENT
306 EAST JACKSON STREET
TAMPA, FL 33602**

PROJECT NAME:
**MACFARLANE PARK
FREEDOM PLAYGROUND EXPANSION**

SHEET TITLE:
GENERAL NOTES

| NO. | DATE | DESCRIPTION |
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| 1 | 10/16/19 | PER SWFWMD COMMENTS |
| 2 | 10/30/19 | REQUEST FROM COT PARKS & REC |
| 3 | 11/19/19 | REQUEST FROM COT PARKS & REC |
| | | |
| | | |
| | | |

PROJ. NO.: C033019K
DATE: 09-04-19
DESIGNED BY: S.D.M. / T.S.
CHECKED BY: V.M.H. / T.K.

VICTOR M. HUGGINS, P.E.
F.L. REG. NO. 60882
PROFESSIONAL ENGINEER



11/20/19
THIS PLAN IS NOT VALID UNLESS SIGNED, DATED & RAISED SEAL AFFIXED OR PERMANENT INK SEAL

SHEET:
C1.0

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| SITE DESCRIPTION | |
|---|---|
| PROJECT NAME: MACFARLANE PARK FREEDOM PLAYGROUND EXPANSION LAT. = 27°57'29.47"N LONG = 82°29'41.00"W | OWNER'S NAME: CITY OF TAMPA - PARKS & RECREATION DEPT. OWNER'S ADDRESS: 306 EAST JACKSON STREET TAMPA, FL 33602 |
| DESCRIPTION OF NATURE OF CONSTRUCTION ACTIVITY EXPANSION OF AN EXISTING PLAYGROUND AT MACFARLANE PARK | |
| SOIL DISTURBING ACTIVITIES INCLUDE: INSTALLING STABILIZED CONSTRUCTION ENTRANCES, CONSTRUCTION OF EROSION AND SEDIMENT CONTROLS, CLEARING AND GRUBBING, GRADING, CONSTRUCTION OF STORM SEWER, PLAYGROUND SYSTEMS INSTALLATION, PARKING AREA CONSTRUCTION, AND PREPARATION FOR FINAL LANDSCAPING. | |
| RUNOFF COEFFICIENT: THE FINAL COEFFICIENT OF RUNOFF FOR THE SITE WILL BE C=0.81 | |
| LIMITS OF CONSTRUCTION AREA: ±0.35 ACRES | |
| SEQUENCE OF MAJOR ACTIVITIES 1. PRIOR TO COMMENCEMENT OF CLEARING FOR CONSTRUCTION, SITE CONTRACTOR SHALL INSTALL ALL EROSION CONTROL DEVICES AND NECESSARY TREE BARRICADES CALLED FOR ON PLANS AROUND THE SITE. 2. UPON COMPLETION OF THE INSTALLATION, THE SITE CONTRACTOR MAY BEGIN SITE CLEARING, EARTHWORK, DRAINAGE, UTILITY AND ROADWAY CONSTRUCTION ACTIVITIES WITHIN THE CONTRIBUTING BASIN. THE SITE CONTRACTOR SHALL STABILIZE ALL AREAS DISTURBED WITHIN FIVE DAYS OF ME COMPLETION OF GRADING ACTIVITIES OF THE DISTURBED AREA. 3. DURING CONSTRUCTION, THE SITE CONTRACTOR SHALL PERFORM REQUIRED MAINTENANCE AND INSPECTIONS OF THE DEVICES. 4. THE SITE CONTRACTOR SHALL REMOVE ALL EROSION PROTECTION DEVICES WITHIN EACH CONTRIBUTING AREA FOLLOWING PERMANENT STABILIZATION OF ALL DISTURBED AREAS. | |
| NAME OF RECEIVING WATER: TAMPA BAY | |
| CONTROLS | |
| EROSION AND SEDIMENT CONTROLS | |
| STABILIZATION PRACTICES | |
| <u>WIND EROSION STABILIZATION:</u> THE CONTRACTOR SHALL DENUDE ONLY AREAS WHERE IT IS EXPECTED TO GRADE OR ALTERED WITHIN A TWO (2) WEEK TIME-FRAME. FINAL GRADES SHALL BE PERFORMED AND TEMPORARY OR PERMANENT SOIL STABILIZATION SHALL BE APPLIED. AREAS WHERE CONSTRUCTION OPERATIONS WILL BE CONTINUOUS, FUGITIVE DUST SHALL BE MANAGED BY APPLYING A WATER SPRAY TO SATURATED THE SURFACE SOILS ON A DAILY BASIS, OR AS NEEDED TO MAINTAIN MINIMAL DUST TRANSPORT. FUGITIVE DUST SHALL BE MONITORED CONTINUOUSLY AND ADDITIONAL MEASURES MAY NEED TO BE TAKEN TO CONTROL OFF-SITE TRANSPORT OF UNACCEPTABLE LEVELS OF DUST. <u>TEMPORARY STABILIZATION:</u> TOP OF SOIL STOCK PILES AND DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY TEMPORARILY CEASES FOR AT LEAST 21 DAYS WILL BE STABILIZED WITH TEMPORARY GRASS AND MULCH NO LATER THAN 5 DAYS FROM THE LAST CONSTRUCTION ACTIVITY. GRASS SEED SHALL BE A MIXTURE OF 20 PARTS OF BERMUDA SEED AND 80 PARTS OF PENSACOLA BAHIA. THE SEPARATE TYPES OF SEED USED SHALL BE THOROUGHLY DRY MIXED IMMEDIATELY BEFORE SOWING. SEED WHICH HAS BECOME WET SHALL NOT BE USED. THE MULCH MATERIAL USED SHALL NORMALLY BE DRY MULCH. DRY MULCH SHALL BE STRAW OR HAY, CONSISTING OF OAT, RYE OR WHEAT STRAW, OR OF PANGOLA, PEANUT, COASTAL BERMUDA OR BAHIA GRASS HAY. ONLY UNDETERIORATED MULCH WHICH CAN BE READILY CUT INTO THE SOIL SHALL BE USED. AREAS OF THE SITE WHICH ARE TO BE PAVED WILL BE TEMPORARILY STABILIZED BY APPLYING STABILIZATION AND BASED MATERIAL. <u>PERMANENT STABILIZATION:</u> DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES PERMANENTLY CEASES SHALL BE STABILIZED WITH SOD NO LATER THAN 5 DAYS AFTER THE LAST CONSTRUCTION. | |
| STRUCTURAL PRACTICES | |
| <u>STAKE SILT FENCES:</u> THE STAKED SILT FENCES WILL BE CONSTRUCTED ALONG THE PERIMETER AS PREVIOUSLY EXPLAINED. THESE DEVICES WILL STOP AND DIVERT RUNOFF TO THE SEDIMENT BASINS. <u>SEDIMENT BASINS:</u> THE STORM WATER MANAGEMENT AREAS WILL ACT AS SEDIMENT BASINS DURING CONSTRUCTION. THE SEDIMENT BASINS WILL BE CONSTRUCTED TO THE DESIGN CROSS-SECTION, OR A MINIMUM OF 2' BELOW EXISTING GROUND AT THE CONTRACTORS DISCRETION TO ALLOW SILTS TO BE COLLECTED AND REMOVED PRIOR TO COMPLETION OF THE GRADING. | |
| STORM WATER MANAGEMENT | |
| STORM WATER DRAINAGE WILL BE PROVIDED BY A CURB, SWALE, STORM SEWER, AND CATCH BASIN SYSTEM FOR THE DEVELOPED AREAS. SWALES TO BE SODDED AND INCLUDE CHECK DAMS AND RIPRAP TO CONTROL RUNOFF VELOCITY AND TRANSPORT OF SEDIMENT. WHEN CONSTRUCTION IS COMPLETE THE IMPROVED PORTION OF THE SITE WILL DRAIN TO STORM WATER PONDS. THE PONDS WILL BE IN THE LOCATION OF THE TEMPORARY SEDIMENT BASINS. WHEN UPSLOPE AREAS ARE STABILIZED, THE ACCUMULATED SEDIMENT WILL BE REMOVED FROM THE SEDIMENT BASINS. THE PONDS HAVE BEEN DESIGNED BY A PROFESSIONAL ENGINEER TO LIMIT PEAK FLOW RATES FROM THE DESIGN STORM EVENT AT OR BELOW PRE-DEVELOPMENT RATES, AND CONSTRUCTION PER DETAILS SHOWN IN THE PLANS IS IMPERATIVE. | |
| OTHER CONTROLS | |
| WASTE DISPOSAL | |
| <u>WASTE MATERIALS:</u> ALL WASTE MATERIAL WILL BE COLLECTED AND STORED IN DUMPSTERS PER CITY OF TAMPA SOLID WASTE REGULATIONS. ALL TRASH AND CONSTRUCTION DEBRIS FROM THE SITE WILL BE DEPOSITED IN THE DUMPSTERS. THE DUMPSTERS WILL BE EMPTIED A MINIMUM OF ONCE A WEEK OR MORE OFTEN IF NECESSARY, AND THE TRASH WILL BE HAULED TO A REGISTERED LANDFILL FOR DISPOSAL. NO CONSTRUCTION MATERIALS WILL BE BURIED ON-SITE. ALL PERSONNEL WILL BE INSTRUCTED REGARDING THE CORRECT PROCEDURE FOR WASTE DISPOSAL. NOTICES STATING THESE PRACTICES WILL BE POSTED IN THE ON-SITE OFFICE TRAILER AND THE CONSTRUCTION MANGER RESPONSIBLE OR THE DAY-TO-DAY SITE OPERATIONS, WILL BE RESPONSIBLE FOR SEEING THAT THESE PROCEDURES ARE FOLLOWED. <u>HAZARDOUS WASTE:</u> ALL HAZARDOUS WASTE MATERIALS, IF ENCOUNTERED, WILL BE DISPOSED OF IN THE MANNER SPECIFIED BY LOCAL OR STATE REGULATIONS. THE CONTRACTOR WILL BE RESPONSIBLE FOR SEEING THAT THESE PRACTICES ARE FOLLOWED. <u>SANITARY WASTE:</u> ALL SANITARY WASTE WILL BE COLLECTED FROM PORTABLE UNITS A MINIMUM OF THREE TIMES PER WEEK BY A LICENSED SANITARY WASTE MANAGEMENT CONTRACTOR, AS REQUIRED BY LOCAL REGULATION. | |
| OFFSITE VEHICLE TRACKING | |
| STABILIZED CONSTRUCTION ENTRANCES SHALL BE PROVIDED TO HELP REDUCE VEHICLE TRACKING OF SEDIMENTS. THE PAVED STREETS WILL BE CLEANED AS NEEDED TO REMOVE ANY EXCESS MUD, DIRT OR ROCK TRACKED FROM THE SITE. DUMP TRUCKS HAULING MATERIAL FROM OR TO THE SITE WILL BE COVERED WITH A TARPULAIN AT ALL TIMES. | |

| TIMING OF CONTROL MEASURES | | | | | | | | | | | | | | |
|---|------------------------------------|-------------|------------|------------------------------------|---------------------------|-------------------|-------------|------|-------|---------------|-----|------------------|------|-------|
| AS INDICATED IN THE SEQUENCE OF MAJOR ACTIVITIES, STAKED SILT BARRIERS, STABILIZED CONSTRUCTION ENTRANCES AND SEDIMENT BASINS WILL BE CONSTRUCTED PRIOR TO CLEARING OR GRADING OF ANY OTHER PORTIONS OF THE SITE. AREAS WHERE CONSTRUCTION ACTIVITY TEMPORARILY CEASES FOR MORE THAN 21 DAYS WILL BE STABILIZED WITH TEMPORARY GRASS AND MULCH WITHIN 5 DAYS OF THE LAST DISTURBANCE. ONCE CONSTRUCTION ACTIVITY CEASES PERMANENTLY IN THAT AREA, THAT AREA WILL BE STABILIZED WITH PERMANENT SOD. AFTER THE ENTIRE SITE IS STABILIZED, THE ACCUMULATED SEDIMENT WILL BE REMOVED FROM THE TRAPS AND THE STAKED SILT BARRIERS WILL BE REMOVED. | | | | | | | | | | | | | | |
| CERTIFICATION OF COMPLIANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS | | | | | | | | | | | | | | |
| THE STORM WATER POLLUTION PREVENTION PLAN REFLECTS THE SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICTS (SWFWMD) REQUIREMENTS FOR STORM WATER MANAGEMENT AND EROSION AND SEDIMENT CONTROL, AS ESTABLISHED BY THE FLORIDA ADMINISTRATIVE CODE, CHAPTER 40D-4 AND 40D-40. TO ENSURE COMPLIANCE, THIS PLAN WAS PREPARED IN ACCORDANCE WITH SWFWMD'S "BASIS OF REVIEW FOR SURFACE WATER MANAGEMENT PERMIT APPLICATIONS WITHIN THE SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT". THIS PLAN ALSO REFLECTS THE REQUIREMENTS OF THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION FOR WORK IN BRANCH 6. | | | | | | | | | | | | | | |
| MAINTENANCE INSPECTION PROCEDURES | | | | | | | | | | | | | | |
| EROSION AND SEDIMENT CONTROL INSPECTION AND MAINTENANCE PRACTICES | | | | | | | | | | | | | | |
| THESE ARE THE INSPECTION AND MAINTENANCE PRACTICES THAT SHALL BE USED TO MAINTAIN EROSION AND SEDIMENT CONTROL ALL CONTROL MEASURES IN DISTURBED AREAS WILL BE INSPECTED AT LEAST ONCE EACH WEEK AND WITHIN 24 HOURS OF THE END OF ANY STORM EVENT OF 0.25 INCHES OR GREATER BY A CONTRACTORS REPRESENTATIVE. WHERE SITES HAVE BEEN FINALLY STABILIZED SUCH INSPECTIONS SHALL BE CONDUCTED AT LEAST ONCE EVERY MONTH. ALL MEASURES WILL BE MAINTAINED IN GOOD WORKING ORDER; IF A REPAIR IS NECESSARY, IT WILL BE INITIATED WITHIN 24 HOURS OF REPORT. BUILT UP SEDIMENT WILL BE REMOVED FROM SILT FENCE WHEN IT HAS REACHED ONE-THIRD THE HEIGHT OF THE FENCE. SILT FENCE WILL BE INSPECTED REGULARLY FOR DEPTH OF SEDIMENT, TEARS, TO SEE IF THE FABRIC IS SECURELY ATTACHED TO THE FENCE POSTS, AND TO SEE THAT THE FENCE POSTS ARE FIRMLY IN THE GROUND. THE SEDIMENT BASINS WILL BE INSPECTED FOR DEPTH OF SEDIMENT, AND BUILT UP SEDIMENT WILL BE REMOVED WHEN IT REACHES 10 PERCENT OF THE DESIGN CAPACITY OR AT THE END OF THE JOB. TEMPORARY AND PERMANENT GRASSING, MULCHING AND SODDING WILL BE INSPECTED FOR BARE SPOTS, WASHOUTS, AND HEALTHY GROWTH. A MAINTENANCE INSPECTION REPORT SHALL BE MADE AFTER EACH INSPECTION BY THE CONTRACTOR AND SHALL BE KEPT IN AN ACTIVE LOG READILY AVAILABLE AT THE JOB SITE CONSTRUCTION TRAILER. THE SITE SUPERINTENDENT WILL SELECT INDIVIDUALS WHO WILL BE RESPONSIBLE FOR MAINTENANCE AND REPAIR ACTIVITIES. FILLING OUT THE INSPECTION AND MAINTENANCE REPORT WILL BE BY THE CONTRACTOR. PERSONNEL SELECTED FOR MAINTENANCE RESPONSIBILITIES WILL RECEIVE TRAINING FROM THE SITE SUPERINTENDENT. THEY WILL BE TRAINED IN ALL MAINTENANCE PRACTICES NECESSARY FOR KEEPING THE EROSION AND SEDIMENT CONTROLS USED ON-SITE IN GOOD WORKING ORDER. | | | | | | | | | | | | | | |
| NON-STORM WATER DISCHARGES | | | | | | | | | | | | | | |
| IT IS EXPECTED THAT THE FOLLOWING NON-STORM WATER DISCHARGES WILL OCCUR FROM THE SITE DURING THE CONSTRUCTION PERIOD: WATER FROM FIRE FIGHTING ACTIVITIES, FIRE HYDRANT FLUSHING, WATER LINE FLUSHING, WATER USED TO SPRAY OFF LOOSE SOILS FROM VEHICLES, DUST CONTROL, PAVEMENT WASH WATERS (WHERE NO SPILLS OR LEAKS OF TOXIC OR HAZARDOUS MATERIALS HAVE OCCURRED). ALL NON-STORM WATER DISCHARGES WILL BE DIRECTED TO THE SEDIMENT BASIN PRIOR TO DISCHARGE. GROUNDWATER DEWATERING ACTIVITIES ARE NOT COVERED BY THIS PERMIT. THE CONTRACTOR MUST APPLY FOR COVERAGE UNDER THE GENERIC PERMIT FOR THE DISCHARGE OF PRODUCED GROUNDWATER FROM ANY NON-CONTAMINATED SITE ACTIVITY PURSUANT TO 62-621.300 (2), F.A.C. | | | | | | | | | | | | | | |
| INVENTORY FOR POLLUTION PREVENTION PLAN | | | | | | | | | | | | | | |
| THE MATERIALS OR SUBSTANCES LISTED BELOW ARE EXPECTED, BUT NOT LIMITED, TO BE PRESENT ON-SITE DURING CONSTRUCTION: <table border="0"> <tr> <td>CONCRETE</td> <td>FERTILIZERS</td> </tr> <tr> <td>DETERGENTS</td> <td>PETROLEUM BASED PRODUCTS AND FUELS</td> </tr> <tr> <td>PAINTS (ENAMEL AND LATEX)</td> <td>CLEANING SOLVENTS</td> </tr> <tr> <td>METAL STUDS</td> <td>WOOD</td> </tr> <tr> <td>GLASS</td> <td>MASONRY BLOCK</td> </tr> <tr> <td>TAR</td> <td>ROOFING SHINGLES</td> </tr> <tr> <td>SAND</td> <td>STONE</td> </tr> </table> | CONCRETE | FERTILIZERS | DETERGENTS | PETROLEUM BASED PRODUCTS AND FUELS | PAINTS (ENAMEL AND LATEX) | CLEANING SOLVENTS | METAL STUDS | WOOD | GLASS | MASONRY BLOCK | TAR | ROOFING SHINGLES | SAND | STONE |
| CONCRETE | FERTILIZERS | | | | | | | | | | | | | |
| DETERGENTS | PETROLEUM BASED PRODUCTS AND FUELS | | | | | | | | | | | | | |
| PAINTS (ENAMEL AND LATEX) | CLEANING SOLVENTS | | | | | | | | | | | | | |
| METAL STUDS | WOOD | | | | | | | | | | | | | |
| GLASS | MASONRY BLOCK | | | | | | | | | | | | | |
| TAR | ROOFING SHINGLES | | | | | | | | | | | | | |
| SAND | STONE | | | | | | | | | | | | | |
| SPILL PREVENTION | | | | | | | | | | | | | | |
| MATERIAL MANAGEMENT PRACTICES | | | | | | | | | | | | | | |
| THE FOLLOWING ARE THE MATERIAL MANAGEMENT PRACTICES THAT WILL BE USED TO REDUCE THE RISK OF SPILLS OR OTHER ACCIDENTAL EXPOSURE OF MATERIALS AND SUBSTANCES TO STORM WATER RUNOFF. GOOD HOUSEKEEPING: THE FOLLOWING GOOD HOUSEKEEPING PRACTICES SHALL BE FOLLOWED ON-SITE DURING THE CONSTRUCTION PROJECT. AN EFFORT SHALL BE MADE TO STORE ONLY ENOUGH PRODUCT REQUIRED TO DO THE JOB. ALL MATERIALS STORED ON-SITE SHALL BE STORED IN A NEAT, ORDERLY MANNER IN THE JOB APPROPRIATE CONTAINERS AND, IF POSSIBLE, UNDER A ROOF OR OTHER CONTAINED ENCLOSURE. PRODUCTS SHALL BE KEPT IN THEIR ORIGINAL MANUFACTURER'S LABELED CONTAINERS. SUBSTANCES SHALL NOT BE MIXED WITH ONE ANOTHER UNLESS RECOMMENDED BY THE MANUFACTURER. WHENEVER POSSIBLE, ALL OF A PRODUCT SHALL BE USED UP BEFORE DISPOSING OF THE CONTAINER. MANUFACTURERS' RECOMMENDATIONS FOR PROPER USE AND DISPOSAL SHALL BE FOLLOWED. THE SITE SUPERINTENDENT SHALL INSPECT DAILY TO ENSURE PROPER USE AND DISPOSAL OF MATERIALS ON-SITE. HAZARDOUS PRODUCTS: THESE PRACTICES ARE USED TO REDUCE THE RISKS ASSOCIATED WITH HAZARDOUS MATERIALS. PRODUCTS SHALL BE KEPT IN ORIGINAL CONTAINERS UNLESS THEY ARE NOT RESEALABLE. ORIGINAL LABELS AND MATERIAL SAFETY DATA SHALL BE RETAINED. THEY CONTAIN IMPORTANT PRODUCT INFORMATION. IF SURPLUS PRODUCT MUST BE DISPOSED OF, MANUFACTURERS' OR LOCAL AND STATE RECOMMENDED METHODS OF PROPER DISPOSAL SHALL BE FOLLOWED. THE FOLLOWING PRODUCT SPECIFIC PRACTICES WILL BE FOLLOWED ON-SITE: PETROLEUM PRODUCTS: ALL ON-SITE VEHICLES WILL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTIVE MAINTENANCE TO REDUCE THE CHANCE OF LEAKAGE. PETROLEUM PRODUCTS WILL BE STORED IN TIGHTLY SEALED CONTAINERS WHICH ARE CLEARLY LABELED. ANY ASPHALT SUBSTANCES USED ON-SITE WILL BE APPLIED ACCORDING TO THE MANUFACTURERS' RECOMMENDATIONS. FERTILIZERS: FERTILIZERS USED WILL BE APPLIED ONLY IN THE MINIMUM AMOUNTS RECOMMENDED BY THE MANUFACTURER. ONCE APPLIED, FERTILIZER WILL BE WORKED INTO THE SOIL TO LIMIT EXPOSURE TO STORM WATER. STORAGE WILL BE IN A COVERED SHED. THE CONTENTS OR ANY PARTIALLY USED BAGS OF FERTILIZER WILL BE TRANSFERRED TO A SEALABLE PLASTIC BIN TO AVOID SPILLS. PAINTS: ALL CONTAINERS WILL BE TIGHTLY SEALED AND STORED WHEN NOT REQUIRED FOR USE. EXCESS PAINT WILL NOT BE DISCHARGED TO THE STORM SEWER SYSTEM BUT WILL BE PROPERLY DISPOSED OF ACCORDING TO MANUFACTURERS' INSTRUCTIONS OR STATE AND LOCAL REGULATIONS. CONCRETE TRUCKS: CONTRACTOR SHALL DESIGNATE AN AREA FOR DISCHARGE OF SURPLUS CONCRETE OR DRUM WASH WATER AND SHALL INSTALL A CONTAINMENT BERM AROUND THIS AREA TO PREVENT RUNOFF TO THE REMAINDER OF THE SITE. HARD DEBRIS SHALL BE DISPOSED OF BY CONTRACTOR UPON COMPLETION OF THE PROJECT. | | | | | | | | | | | | | | |

| SPILL CONTROL PRACTICES |
|---|
| IN ADDITION TO THE GOOD HOUSEKEEPING AND MATERIAL MANAGEMENT PRACTICES DISCUSSED IN THE PREVIOUS SECTION OF THE PLAN, THE FOLLOWING PRACTICES SHALL BE FOLLOWED FOR SPILL PREVENTION AND CLEANUP: MANUFACTURERS' RECOMMENDED METHODS FOR SPILL CLEANUP WILL BE CLEARLY POSTED AND SITE PERSONNEL WILL BE MADE AWARE OF THE PROCEDURES AND THE LOCATION OF THE INFORMATION AND CLEANUP SUPPLIES. MATERIALS AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE MATERIAL STORAGE AREA ON-SITE. EQUIPMENT AND MATERIALS WILL INCLUDE, BUT NOT BE LIMITED TO, BROOMS, DUST PANS, MOPS, RAGS, GLOVES, GOGGLES, KITTY LITTER, SAND, SAWDUST, AND PLASTIC AND METAL TRASH CONTAINERS SPECIFICALLY FOR THIS PURPOSE. ALL SPILLS WILL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY. THE SPILL AREAS WILL BE KEPT WELL VENTILATED AND PERSONNEL WILL WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT INJURY FORM CONTACT WITH A HAZARDOUS SUBSTANCE. SPILLS OF TOXIC OR HAZARDOUS MATERIAL WILL BE REPORTED TO THE APPROPRIATE STATE OR LOCAL GOVERNMENT AGENCY, REGARDLESS OF SIZE. THE SPILL PREVENTION PLAN WILL BE ADJUSTED TO INCLUDE MEASURES TO PREVENT THIS TYPE OF SPILL FROM REOCCURRING AND HOW TO CLEAN UP THE SPILL IF THERE IS ANOTHER ONE. A DESCRIPTION OF THE SPILL, WHAT CAUSED IT, AND THE CLEANUP MEASURES WILL ALSO BE INCLUDED. THE SITE SUPERINTENDENT RESPONSIBLE FOR THE DAY-TO-DAY SITE OPERATIONS, WILL BE THE SPILL PREVENTION AND CLEANUP COORDINATION. THEY WILL DESIGNATE OTHER PERSONNEL WHO WILL RECEIVE SPILL PREVENTION AND CLEANUP TRAINING. THESE INDIVIDUALS WILL EACH BECOME RESPONSIBLE FOR A PARTICULAR PHASE OF PREVENTION AND CLEANUP. THE NAMES OF RESPONSIBLE SPILL PERSONNEL WILL BE POSTED IN THE MATERIAL STORAGE AREA AND IN THE OFFICE TRAILER ON-SITE. |
| NOTICE OF TERMINATION |
| A NOTICE OF TERMINATION WILL BE SUBMITTED TO EPA AFTER THE CONSTRUCTION HAS BEEN COMPLETED AND THE SITE HAS UNDERGONE FINAL STABILIZATION. |
| POLLUTION PREVENTION PLAN CERTIFICATION |
| I CERTIFY UNDER PENALTY OF LAW THAT THESE CONSTRUCTION PLANS, THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM, AS SHOWN ON THESE CONSTRUCTION PLANS, DESIGNED TO ASSURE THAT APPROPRIATE POLLUTION PREVENTION MEASURES ARE IMPLEMENTED DURING CONSTRUCTION AND TO ASSURE THAT THE QUALIFIED PERSONNEL PROPERLY GATHERED AND EVALUATED THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOW VIOLATIONS. OWNER: CITY OF TAMPA SIGNED: _____ NAME AND TITLE: PEG BORS - LANDSCAPE ARCHITECH ADDRESS: 306 EAST JACKSON STREET, TAMPA, FL 33602 DATE: _____ |
| POLLUTION PREVENTION PLAN CERTIFICATION |
| I CERTIFY UNDER PENALTY OF LAW THAT I UNDERSTAND THE TERMS AND CONDITIONS OF THE GENERIC STORM WATER PERMIT ISSUED PURSUANT TO SECTION 403.0885, F.S., THAT AUTHORIZES THE STORM WATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY FROM THE CONSTRUCTION SITE IDENTIFIED AS PART OF THIS CERTIFICATION. SIGNATURE FOR RESPONSIBLE FOR NAME: _____ COMPANY: _____ TITLE: _____ ADDRESS: _____ GENERAL CONTRACTOR DATE: _____ PHONE: _____ NAME: _____ COMPANY: _____ TITLE: _____ ADDRESS: _____ TEMPORARY AND PERMANENT STABILIZATION DATE: _____ PHONE: _____ NAME: _____ COMPANY: _____ TITLE: _____ ADDRESS: _____ TEMPORARY AND PERMANENT STABILIZATION DATE: _____ PHONE: _____ |



HARDEMAN - KEMPTON & ASSOCIATES, INC.
Landscape Architects & Civil Engineers
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Tampa, Florida 33606
Ph: 813-258-0066
www.hka-design.com
Landscape Architecture Certificate of Authorization #LC0000267
Engineering Business Certificate of Authorization No. #26775

PREPARED FOR:
**CITY OF TAMPA
PARKS & RECREATION
DEPARTMENT
306 EAST JACKSON STREET
TAMPA, FL 33602**

PROJECT NAME:
**MACFARLANE PARK
FREEDOM PLAYGROUND EXPANSION**

SHEET TITLE:
**STORMWATER POLLUTION
PREVENTION PLAN**

| NO. | DATE | DESCRIPTION |
|-----|----------|------------------------------|
| 1 | 10/16/19 | PER SWFWMD COMMENTS |
| 2 | 10/30/19 | REQUEST FROM COT PARKS & REC |
| 3 | 11/19/19 | REQUEST FROM COT PARKS & REC |

PROJ. NO.: C033019K
DATE: 09-04-19
DESIGNED BY: S.D.M. / T.S.
CHECKED BY: V.M.H. / T.K.
VICTOR M. HUGGINS, P.E.
FL REG NO 60882
PROFESSIONAL ENGINEER



**STATE OF FLORIDA,
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HUGGINS, P.E. ON
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SHEET:
C1.1

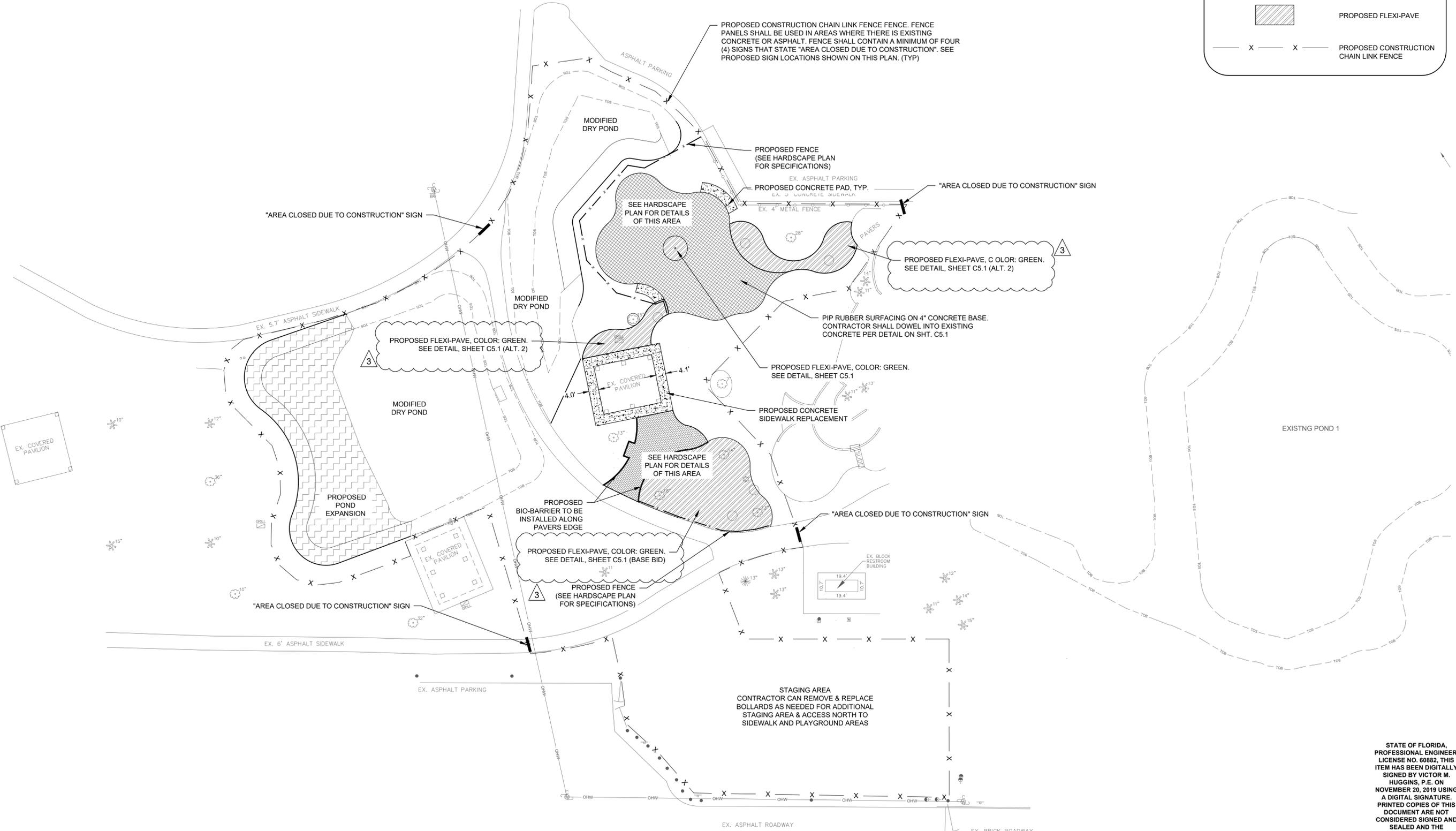
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LEGEND

-  PROPOSED CONCRETE
-  PROPOSED FLEXI-PAVE
-  PROPOSED CONSTRUCTION CHAIN LINK FENCE



PREPARED FOR:
**CITY OF TAMPA
 PARKS & RECREATION
 DEPARTMENT
 306 EAST JACKSON STREET
 TAMPA, FL 33602**

PROJECT NAME:
**MACFARLANE PARK
 FREEDOM PLAYGROUND EXPANSION**

SHEET TITLE:
HORIZONTAL CONTROL PLAN

REVISIONS:

| NO. | DATE | DESCRIPTION |
|-----|----------|------------------------------|
| 1 | 10/16/19 | PER SWFWD COMMENTS |
| 2 | 10/30/19 | REQUEST FROM COT PARKS & REC |
| 3 | 11/19/19 | REQUEST FROM COT PARKS & REC |

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 DATE: 09-04-19
 DESIGNED: S.D.M. / T.S.
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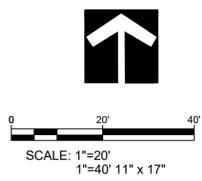
VICTOR M. HUGGINS, P.E.
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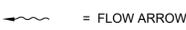
| NO. | DATE | DESCRIPTION |
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PROJ. NO.: C033019K
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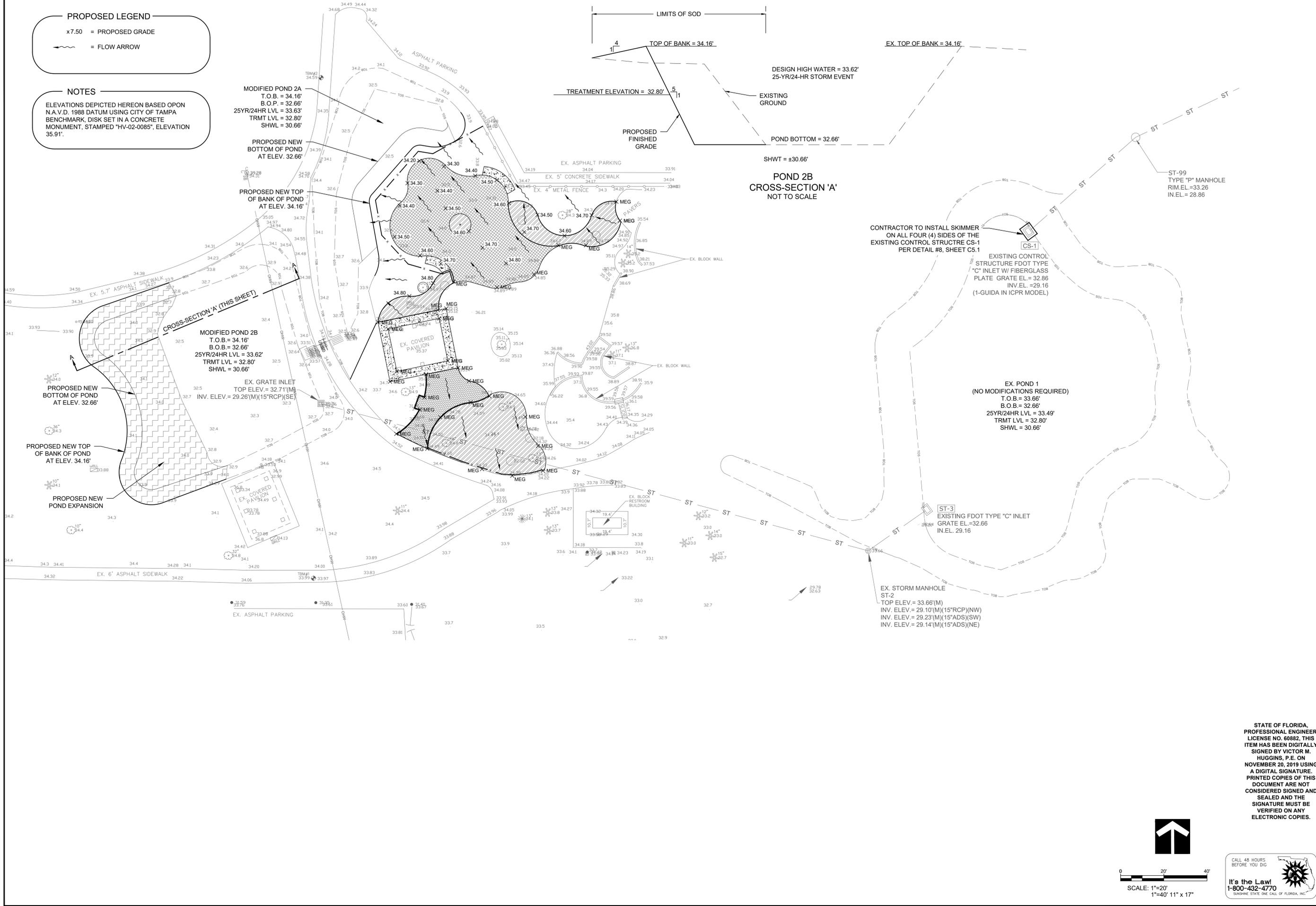
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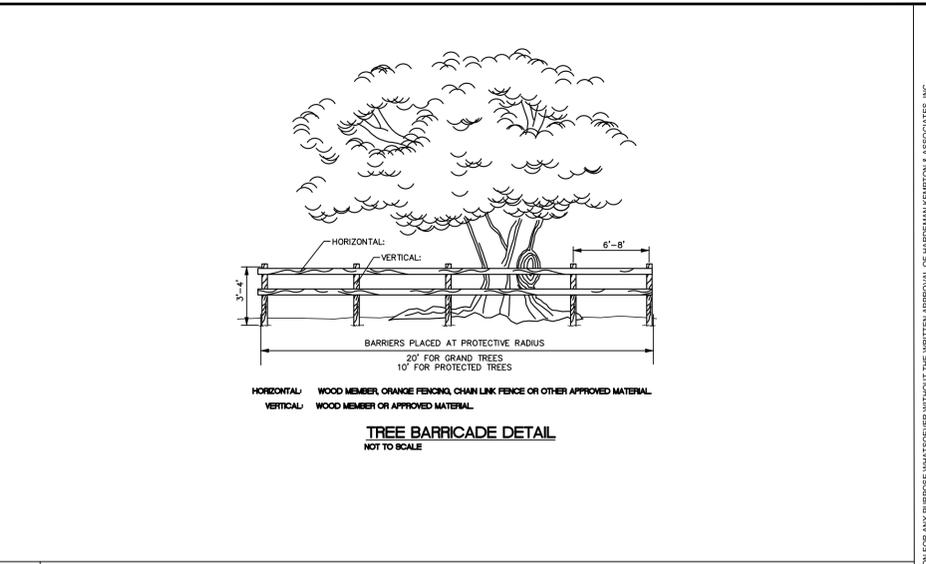
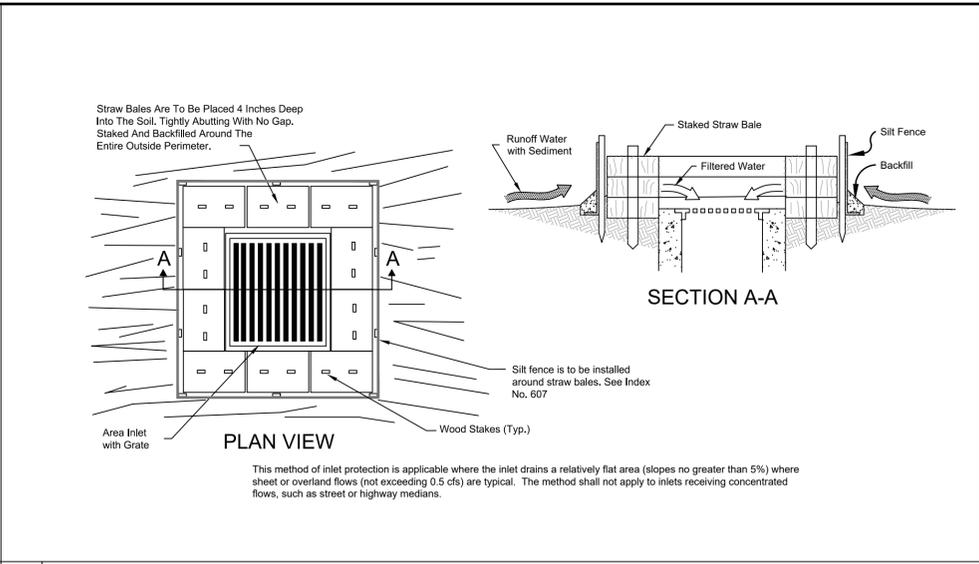
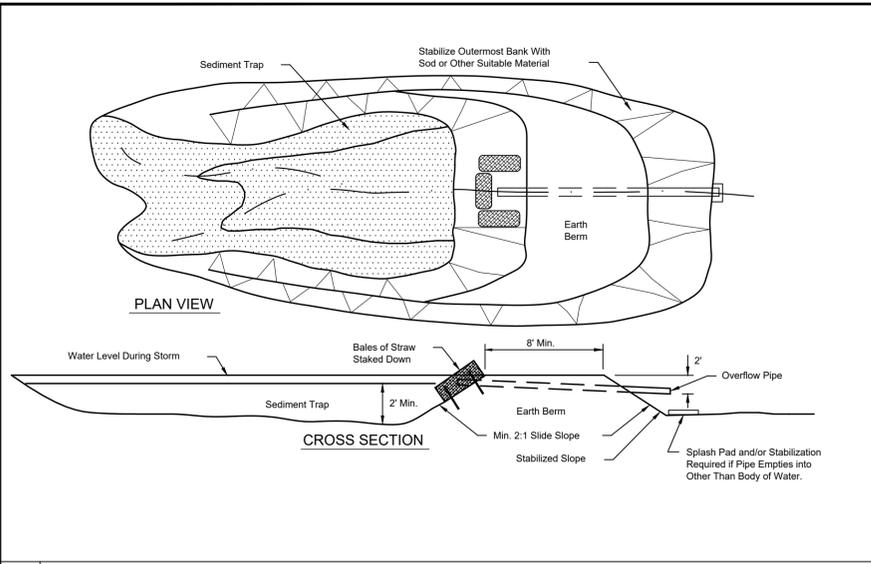
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PROPOSED LEGEND
 x7.50 = PROPOSED GRADE
 = FLOW ARROW

NOTES
 ELEVATIONS DEPICTED HEREON BASED OPON
 N.A.V.D. 1988 DATUM USING CITY OF TAMPA
 BENCHMARK, DISK SET IN A CONCRETE
 MONUMENT, STAMPED "HV-02-0085", ELEVATION
 35.91'.

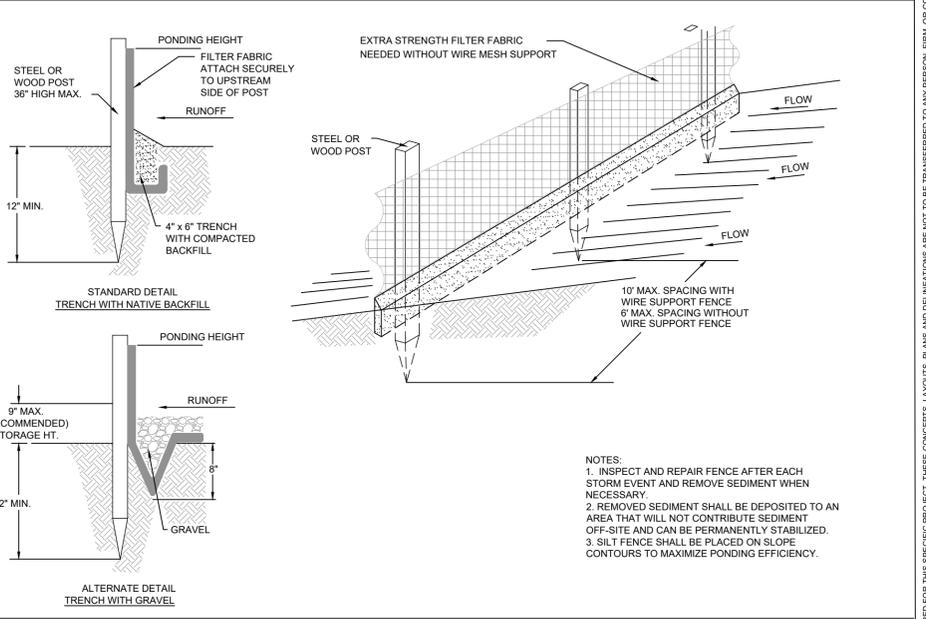
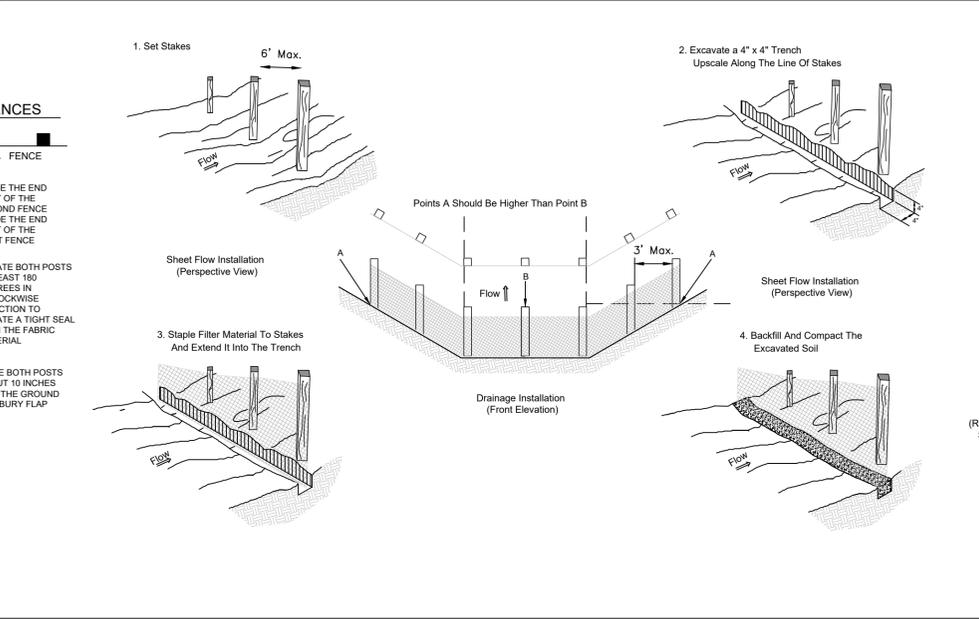
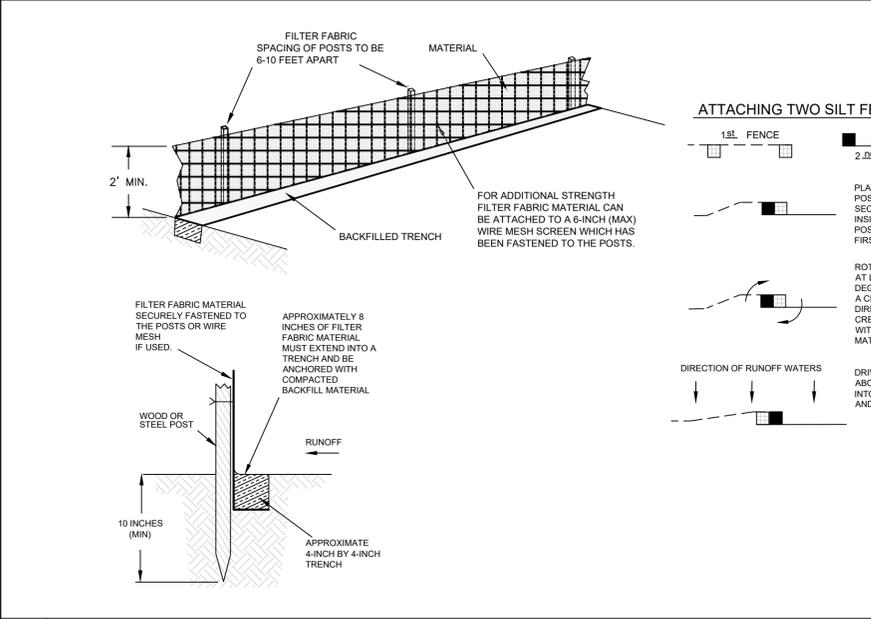




1 TEMPORARY EROSION CONTROL SEDIMENT BASIN N.T.S.

2 TEMPORARY STRAW BALE SEDIMENT BARRIER AT DROP INLET N.T.S.

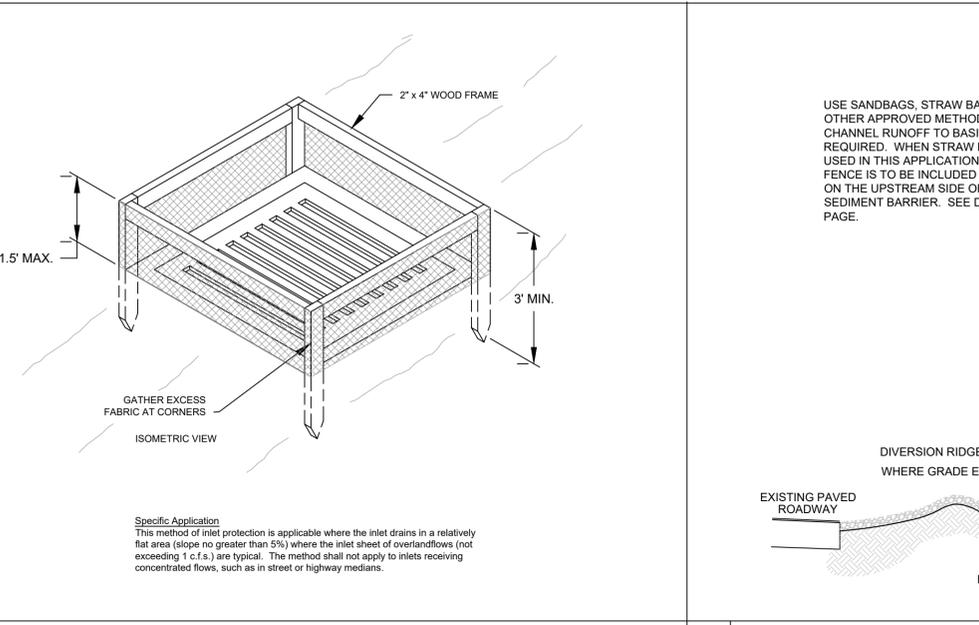
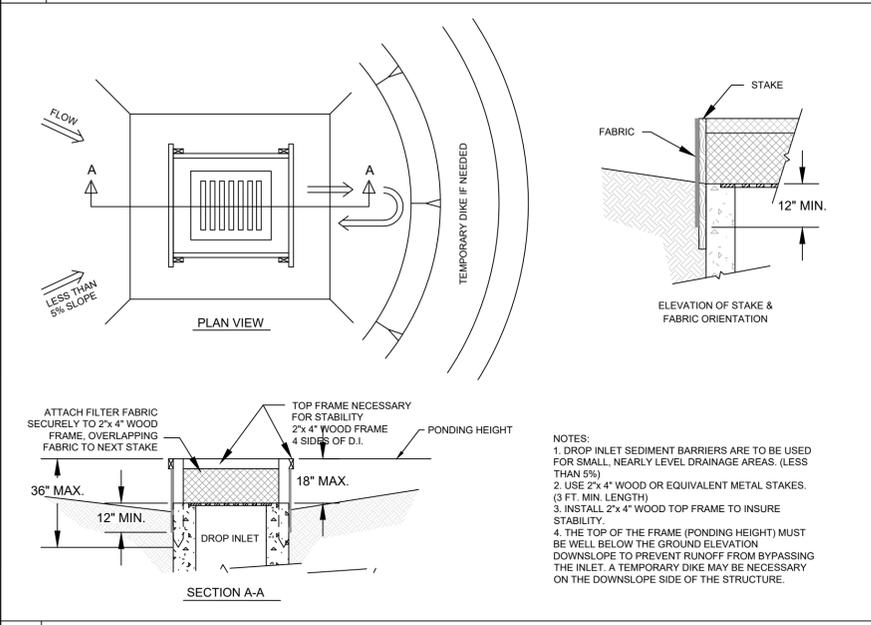
3 TREE PROTECTION DETAIL N.T.S.



4 FILTER FABRIC SILT FENCE N.T.S.

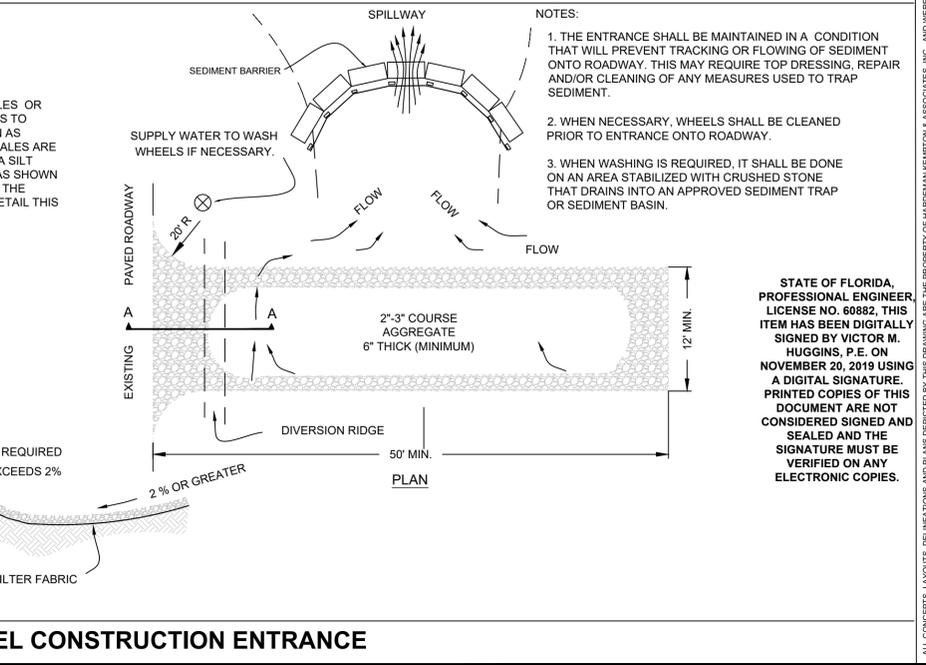
5 TEMPORARY SEDIMENT BARRIER AT DROP INLET N.T.S.

6 TEMPORARY GRAVEL CONSTRUCTION ENTRANCE N.T.S.



7 TEMPORARY SEDIMENT BARRIER AT DROP INLET N.T.S.

8 TEMPORARY GRAVEL CONSTRUCTION ENTRANCE N.T.S.





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Landscape Architecture Certificate of Authorization #LC0000267
 Engineering Business Certificate of Authorization No. #26775

PREPARED FOR:
**CITY OF TAMPA
 PARKS & RECREATION
 DEPARTMENT
 306 EAST JACKSON STREET
 TAMPA, FL 33602**

PROJECT NAME:
**MACFARLANE PARK
 FREEDOM PLAYGROUND EXPANSION**

SHEET TITLE:
CONSTRUCTION DETAILS

| NO. | DATE | DESCRIPTION |
|-----|----------|------------------------------|
| 1 | 10/18/19 | PER SWFWM COMMENTS |
| 2 | 10/30/19 | REQUEST FROM DOT PARKS & REC |
| 3 | 11/19/19 | REQUEST FROM DOT PARKS & REC |

PROJ. NO.: C033019K
 DATE: 09-04-19
 DESIGNED: S.D.M. / T.S.
 CHECKED: V.M.H. / T.K.

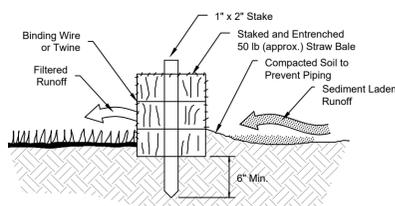
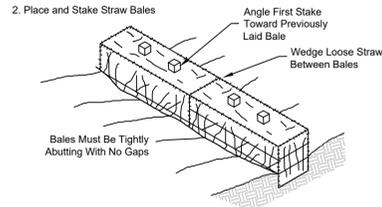
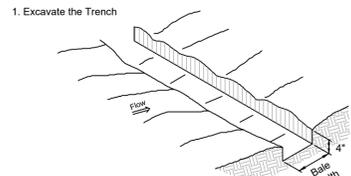
VICTOR M. HUGGINS, P.E.
 F.L. REG. NO. 60882
 PROFESSIONAL ENGINEER



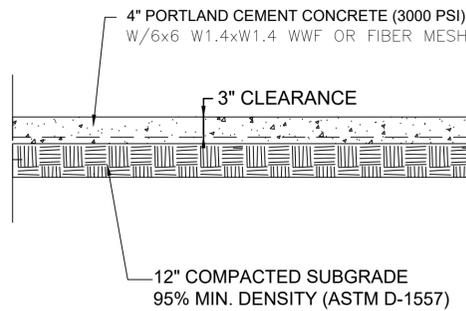
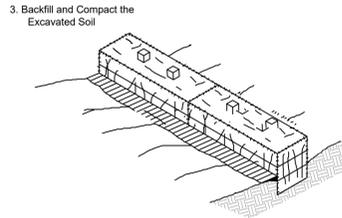
STATE OF FLORIDA
 PROFESSIONAL ENGINEER
 LICENSE NO. 60882
 HUGGINS, P.E. ON NOVEMBER 20, 2019 USING A DIGITAL SIGNATURE
 PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

11/20/19
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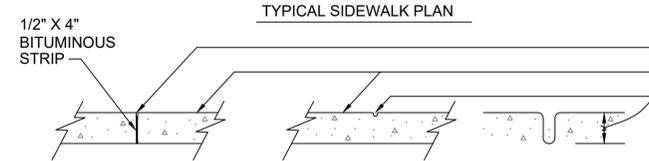
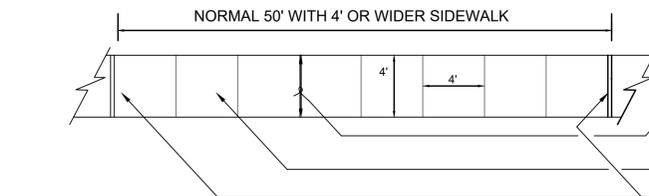
SHEET:
C5.0



PROPERLY INSTALLED STRAW BALE (Cross-Section)



PROVIDE 1/2" EXPANSION JOINTS (PERFORMED JOINT FILLER) BETWEEN CONCRETE SIDEWALK AND ANY OTHER CONCRETE ITEMS (DRIVEWAYS, CURBS, ETC.)



WIDTH STIPULATED FOR EACH LOCATION 4' MIN.
STRUCK JOINT EXPANSION JOINT

JOINT SEALER
BROOM FINISH
DEPTH 1/5 SLAB THICKNESS

NOTES:
1. SIDEWALKS SHALL HAVE TOOLED EDGES.
2. CONSTRUCTION JOINTS SHALL BE LOCATED AT STRUCK JOINTS OR EXPANSION JOINTS ONLY.

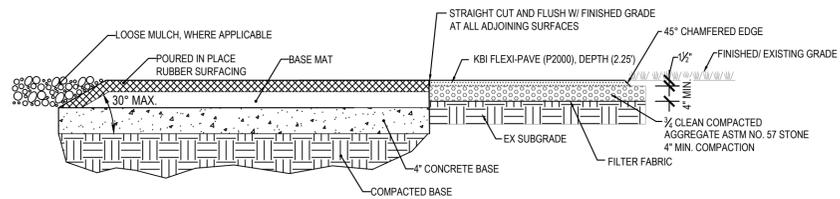
1 TEMPORARY STRAW BALE SEDIMENT BARRIER

N.T.S.

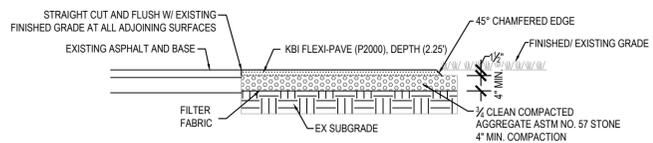
ALL KBI-FLEXI-PAVE MATERIALS ARE TO BE ACQUIRED FROM KBI, INC., THEIR APPROVED AGENTS, OR APPROVED DISTRIBUTORS.

VERIFY INSTALLATION W/ MANUFACTURER'S RECOMMENDATIONS, TYP.

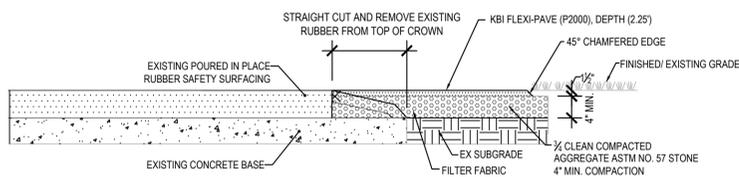
KBI-FLEXI-PAVE MATERIALS WITHIN PLAY EQUIPMENT SAFETY ZONES SHALL MEET/ EXCEED ALL PLAYGROUND SAFETY STANDARDS.



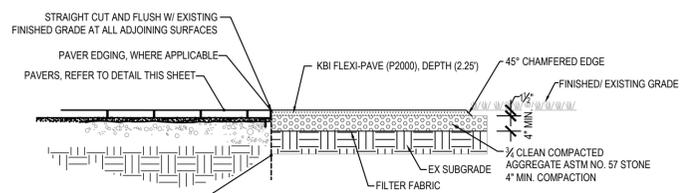
ADJACENT TO NEW RUBBER SAFETY SURFACING



ADJACENT TO EXISTING ASPHALT WALK



ADJACENT TO EXISTING RUBBER SAFETY SURFACING



ADJACENT TO PROP BRICK

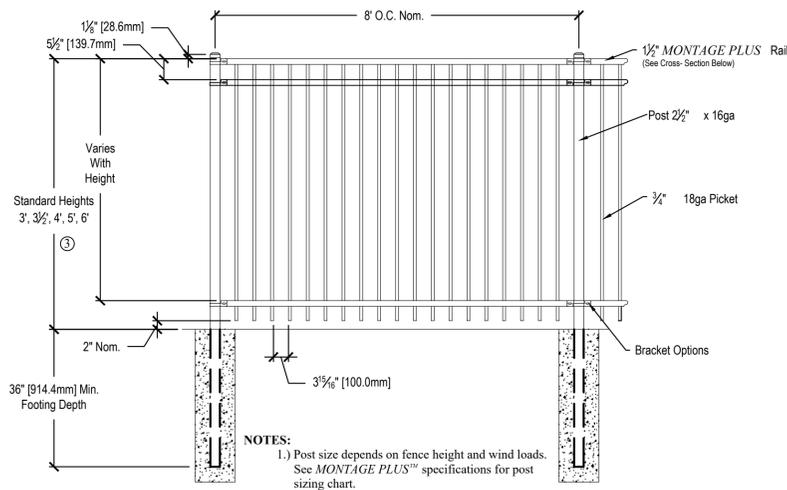
4 FLEXI-PAVE CONNECTIONS

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

2 CONCRETE SIDEWALK SECTION

N.T.S.

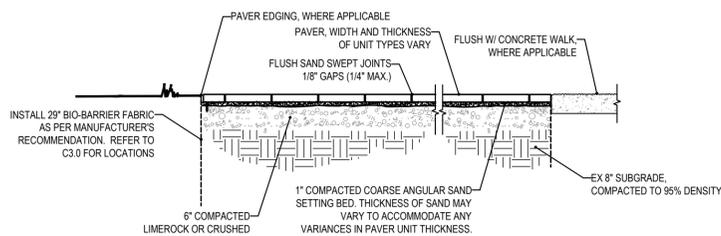
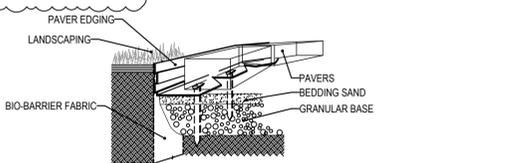
VERIFY INSTALLATION W/ MANUFACTURER'S RECOMMENDED INSTALLATION INSTRUCTIONS, TYP.



NOTES:
1.) Post size depends on fence height and wind loads. See MONTAGE PLUS™ specifications for post sizing chart.

5 FENCE SECTION

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

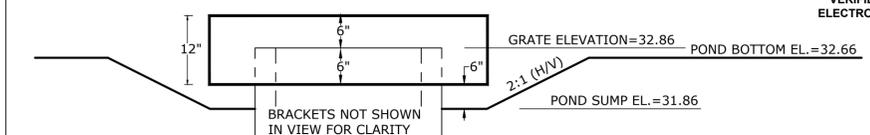
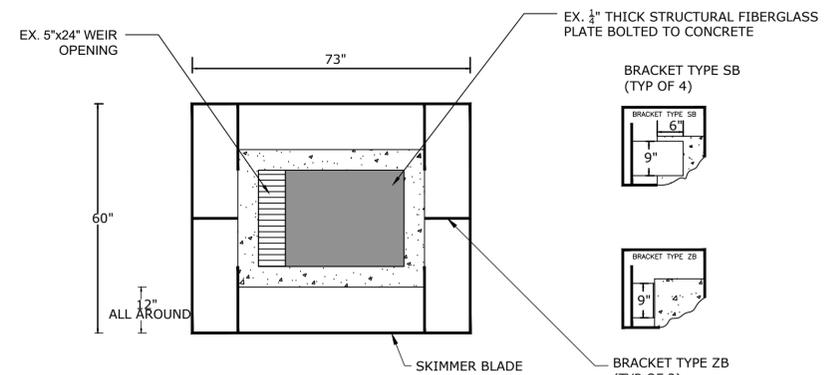
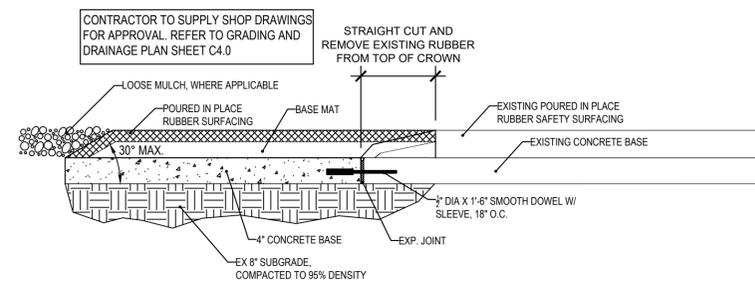


7 PAVES INSTALLATION DETAIL

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

6 PIP RUBBER SURFACING/ EXISTING CONCRETE DETAIL

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



8 CONTROL STRUCTURE CS-1 - SKIMMER DETAIL

N.T.S.



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DESIGNED: S.D.M. / T.S.
CHECKED: V.M.H. / T.K.

VICTOR M. HUGGINS, P.E.
FL REG NO 60882
PROFESSIONAL ENGINEER



STATE OF FLORIDA
PROFESSIONAL ENGINEER,
LICENSE NO. 60882, THIS
ITEM HAS BEEN DIGITALLY
SIGNED BY VICTOR M.
HUGGINS, P.E. ON
NOVEMBER 20, 2019 USING
A DIGITAL SIGNATURE
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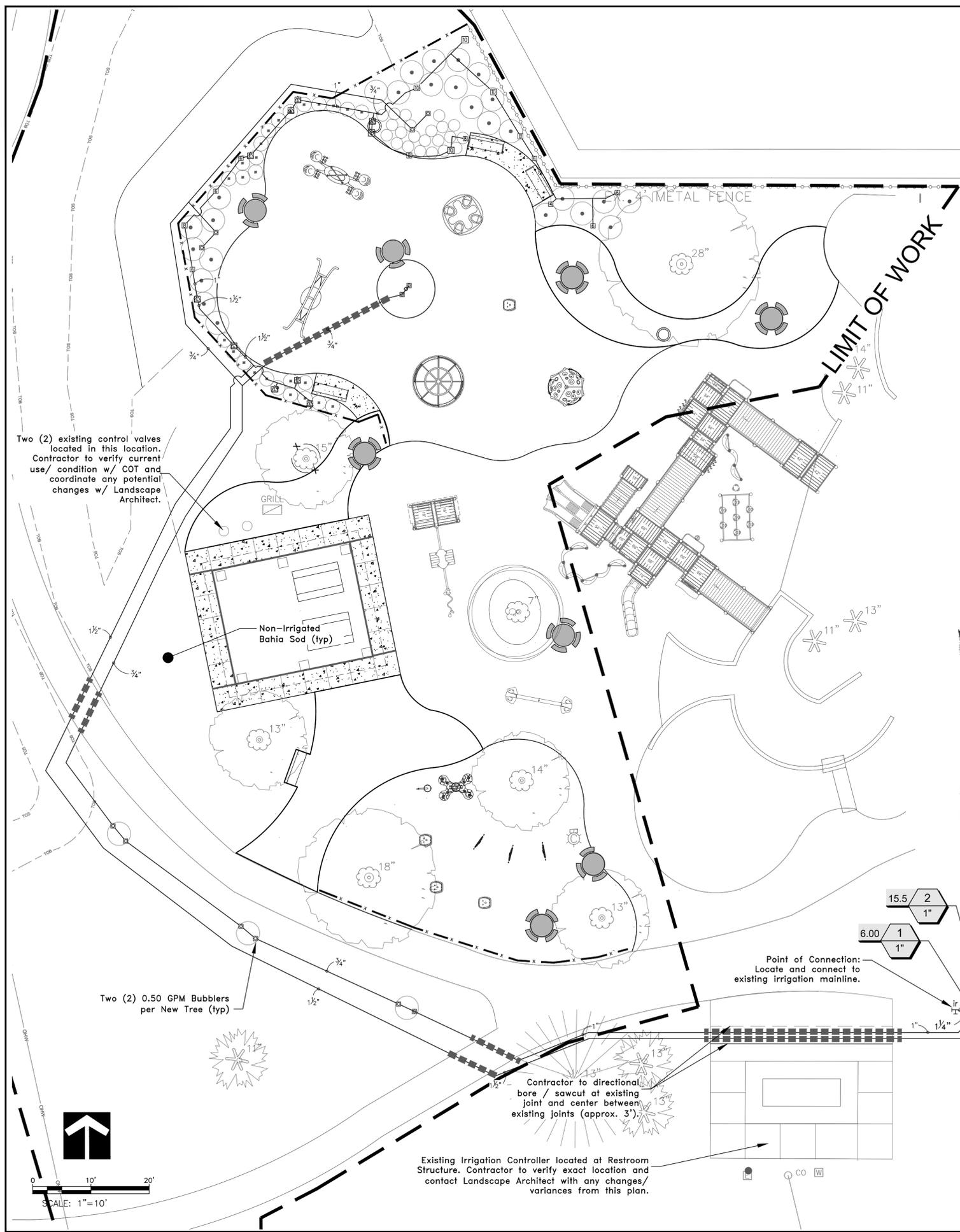
11/20/19

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SHEET:

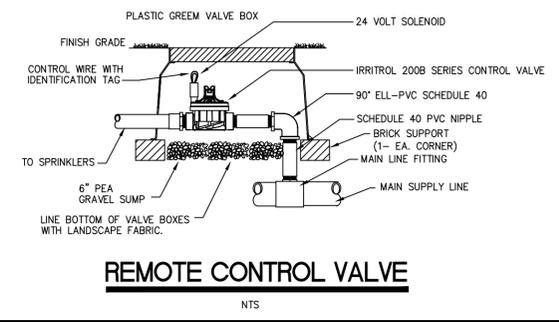
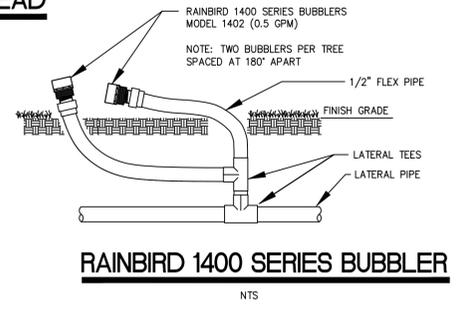
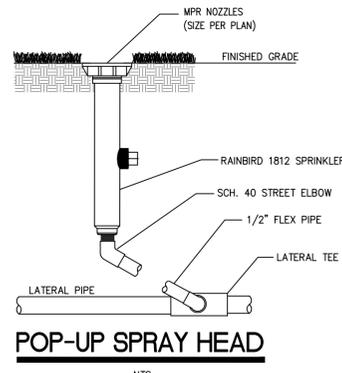
C5.1

ALL CONCEPTS, LAYOUTS, DELINEATIONS AND PLANS DEPICTED BY THIS DRAWING ARE THE PROPERTY OF HARDEAN-KEMPTON & ASSOCIATES, INC. AND WERE DEVELOPED FOR THIS SPECIFIC PROJECT. THESE CONCEPTS, LAYOUTS, PLANS AND DELINEATIONS ARE NOT TO BE TRANSFERRED TO ANY PERSON, FIRM OR CORPORATION FOR ANY PURPOSE WHATSOEVER WITHOUT THE WRITTEN APPROVAL OF HARDEAN-KEMPTON & ASSOCIATES, INC.



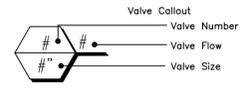
IRRIGATION NOTES:

- Irrigation system design requirements: 20 GPM @ a minimum of 50 PSI at each point of connection. The Irrigation Contractor shall verify the available GPM and PSI prior to installation of the system.
- Do not willfully install the irrigation system as shown on the drawings when it is obvious in the field that conditions exist that might not have been considered in the design process. For example: obstructions, grade differences, water levels, dimensional differences, etc. Refer to the Landscape Plan to avoid conflicts with proposed trees or shrubs.
- Piping may sometimes be indicated as being located in unlikely areas: i.e., under buildings or pavement, outside of property lines, in lakes or ditches, etc. This is done for graphic clarity only. Whenever possible, piping is to be installed in open, green areas.
- Pipe sizes shall conform to those on the drawings. Substituting with smaller pipe sizes will not be permitted. Minimum pipe size shall be 3/4". Maximum velocity shall be 4 FPS.
- Mainline is to be installed with a minimum of 18" depth of cover. Lateral lines are to be installed with a minimum of 12" depth of cover. Drip manifolds are to be installed with a minimum of 4" to 5" depth.
- Unless otherwise indicated, all sleeves are to be PVC Sch 40 and two (2) nominal sizes larger than the pipe to be sleeved. For example: The sleeve for a 2" pipe shall be 3". No irrigation sleeve shall be smaller than 2".
- Group remote control valves close to water source in 1 or 2 locations. All valves, flush valves and wire splices shall be installed in Rain Bird wide flanged, structural foam "plastic" valve boxes with "Green" lids as follows:
Remote Control Valves #VB-STD (16"w x 21" x 12"h) std. rect. box
- The bottom and sides of the valve boxes shall be lined with landscape fabric. Install a 3" deep bed of gravel on the landscape fabric to create a drainage sump.
- Refer to Valve Designation Symbols for controller, station number and designed flow rate for each remote control valve.
- All 24 volt control cable to be UL Listed, single strand, type UF 600 Volt control cable. Size and color as follows:
Common Wires - size AWG #12 or larger and WHITE in color.
Hot Wires - size AWG #14 or larger and RED in color.
Extra Wires - size AWG #14 or larger and BLACK in color
Install (1) white, (2) red, and (2) black wires to be run from control valves to existing Irrinet-M controller w/ 6' pig tail. Wiring connections to the controller to be made by COT irrigation staff.
- All splices to the 24 volt control wiring shall be made with King grease filled 24-600 volt, direct bury splice kits.
- All control valve wires shall be bundled and taped together at 20' intervals and placed along the underside of the mainline pipe or in conduit.
- All pop-up sprinkler heads shall be installed level and flush to grade. Mount all sprinklers on flexible connections as follows:
1/2" inlet spray heads 18" of Heavy Wall PVC IPS Hose
- The IRRIGATION CONTRACTOR shall prepare a digitally reproducible AS-BUILT drawing detailing the actual installation of the irrigation system. The AS-BUILT drawings shall locate all main line piping, control wires, wire splices, sleeves and valves by showing exact measurements from permanent features (buildings, edge of pavement, power poles, fire hydrants, etc.). Include depth of cover on mainline and sleeves.
- No product substitutions will be permitted without the written permission of the Owner's Representative. Irrigation Contractor to provide submittals to the Owner's Representative for approval prior to installation.
- Any other equipment required that is not otherwise detailed or specified shall be installed as per manufacturer's recommendations and local code.
- All installation and material used in the construction / modification of the irrigation system must conform to City of Tampa Parks & Rec. Irrigation specifications.



IRRIGATION SCHEDULE

| SYMBOL | MANUFACTURER/MODEL/DESCRIPTION |
|----------|--|
| [Symbol] | Rain Bird 1812 Shrub Spray 15 Strip Series 12.0" Pop-Up Sprinkler with Side and Bottom Inlet. |
| [Symbol] | Rain Bird 1812 Shrub Spray 8 Series MPR (arc as needed) 12.0" Pop-Up Sprinkler with Side and Bottom Inlet. |
| [Symbol] | Rain Bird 1812 Shrub Spray 10 Series MPR (arc as needed) 12.0" Pop-Up Sprinkler with Side and Bottom Inlet. |
| [Symbol] | Rain Bird 1812 Shrub Spray (arc as needed) 12.0" Pop-Up Sprinkler with Side and Bottom Inlet. |
| [Symbol] | Rain Bird 1800-1400 Flood 1401 Fixed flow rate (0.25-2.0GPM), full circle bubbler, 1/2" FIPT. |
| SYMBOL | MANUFACTURER/MODEL/DESCRIPTION |
| [Symbol] | Irritrol 214B Electric Remote Control Valve, globe/angle configuration |
| [Symbol] | Existing Irrigation Mainline 20 GPM at 50 PSI Required |
| [Symbol] | Irrigation Lateral Line: PVC Schedule 40 |
| [Symbol] | Irrigation Mainline: PVC Schedule 40 |
| [Symbol] | Pipe Sleeve: PVC Schedule 40 Typical pipe sleeve for irrigation pipe. Pipe sleeve size shall allow for irrigation piping and their related couplings to easily slide through sleeving material. Extend sleeves 18 inches beyond edges of paving or construction. |



CONTRACTOR NOTE:
Contractor to locate, identify, and notify Landscape Architect of existing irrigation conditions and/ or any required changes for approval prior to construction.

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306 EAST JACKSON STREET
TAMPA, FL 33602**

PROJECT NAME:
**MACFARLANE PARK
FREEDOM PLAYGROUND EXPANSION**

SHEET TITLE:
IRRIGATION PLAN

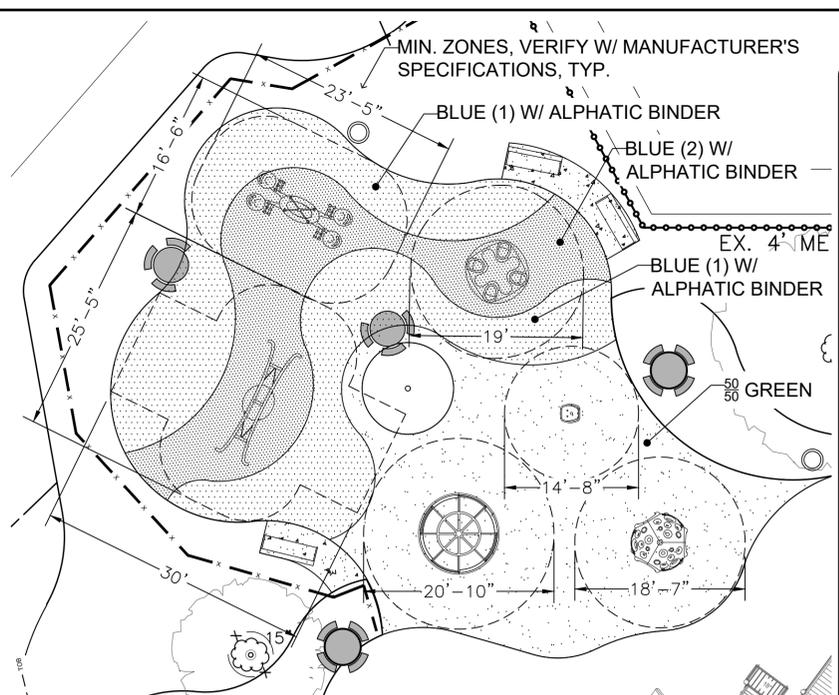
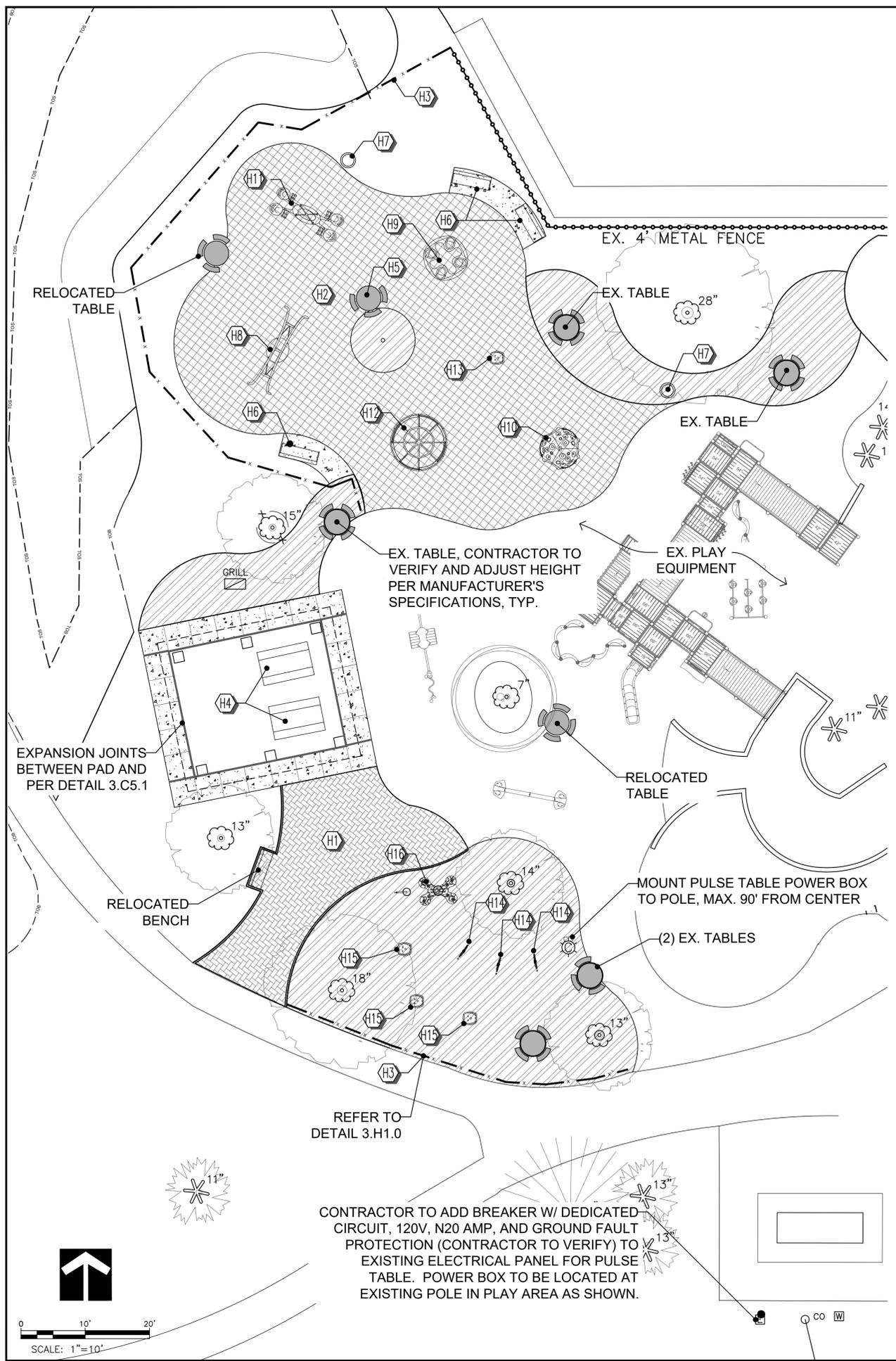
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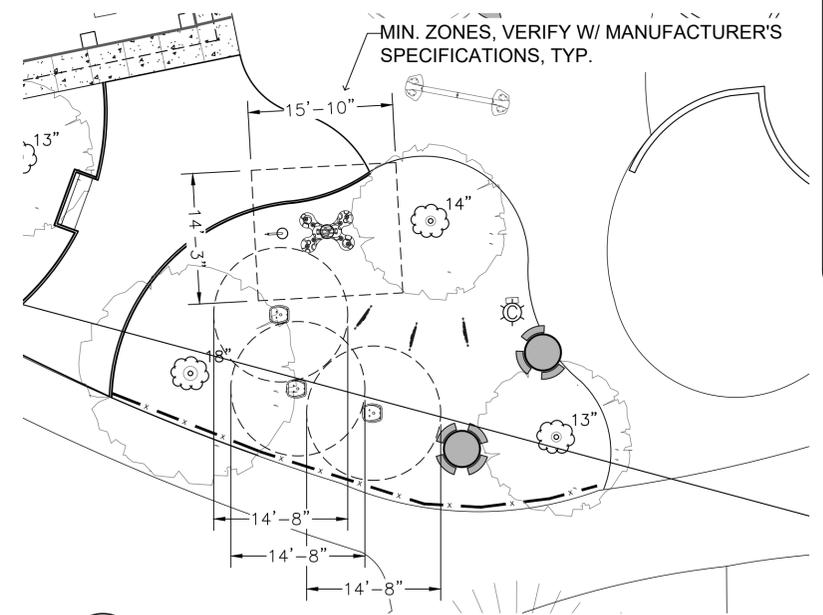
JAMES T. KEMPTON, R.L.A.
REG. NO. 0001493
LANDSCAPE ARCHITECT

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SHEET: IR1.0



1 PIP RUBBER SURFACING/ EQUIP. DESIGN LAYOUT PLAN



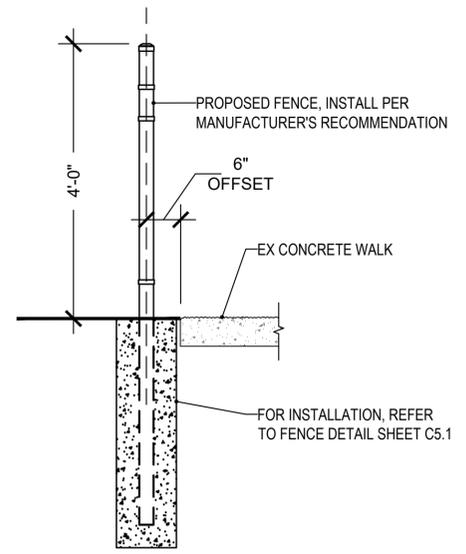
2 EQUIPMENT DESIGN LAYOUT PLAN

RUBBER SURFACING NOTES:
 SET ON 4" P.I.P. CONCRETE SLAB. ALL EDGES SHALL TRANSITION TO ADJACENT GRADE OR MEET FLUSH W/ ADJACENT HARD SURFACE. DEPTH OF P.I.P. RUBBER SURFACING MATERIAL SHALL MEET OR EXCEED ALL APPLICABLE SAFETY REQUIREMENTS. REFERENCE DETAILS SHEET C5.1

INSTALLATION NOTES:
 ALL PRODUCT INSTALLATIONS SHALL MEET OR EXCEED LOCAL AND STATE SAFETY STANDARDS AND SHALL BE INSTALLED AS PER MANUFACTURER'S INSTRUCTION. REFER TO DETAILS SHEET C5.1 AND SUBMIT SHOP DRAWINGS PER NOTE ON SHEET C1.0.

DESIGN REFERENCES:
 2017 FLORIDA BUILDING CODE, 6TH EDITION
 2014 NATIONAL ELECTRICAL CODE

- HARDSCAPE MATERIALS LIST / SITE WORK**
- H1 Standard sandset bricks, pattern: herringbone, color: Pathway Red to match existing w/blend, manufactured by Pine Hall Brick (800.334.8689). 3" Aluminum paver restraint, as applicable, w/ (1) 3/8" x 10" spike every 20", model: A36438M and Bio-Barrier as shown on sheet C3.0. Installation to be completed in accordance with manufacturer's specifications. Refer to detail C5.1.
 - H2 Decorative PIP rubber surfacing on 4" concrete base. Refer to detail 1. H1.0
 - H3 4'-0" Fence, model: Montage Plus Majestic 3-rail to match existing, as manufactured by Ameristar and supplied/installed by West Florida Fence (813.251.5883). Refer to sheet C3.0. (*Alternate 4)
 - H4 8'-0" ADA Picnic Table, SM SG115P, top color: green, seat color: green, leg color: green (qty:2).
 - H5 46" ADA Picnic Table, SM SG251P, top color: green, seat color: green, leg color: green (qty:1).
 - H6 6'-0" Bench w/ back, inground, model: SG303P, seat color: green, leg color: green (qty: 3). Install as per manufacturer's recommendation.
 - H7 Litter Receptacle, w/ side door, 32 gal., model: LR305R, ribbed w/ flat top, color: green (qty: 2). Install as per manufacturer's recommendation.
 - MANUFACTURED BY WABASH VALLEY (800.253.8619) (*NIC)
 - H8 'Oodle Swing', Colors; proshield: leaf, Polyethylene: limon.
 - H9 'Omnispin Spinner', Colors; Polyethylene: limon.
 - H10 Cozy dome, Colors; Polyethylene: leaf.
 - H11 We-Saw, Colors; Polyethylene: limon, Permalene: lagoon, proshield: yellow.
 - H12 We-Go-Round w/ perf panels, Colors; proshield post: limon, proshield frame: limon Permalene bench: sky, Permalene handhold: lagoon, Polyethylene roof: leaf.
 - H13 Chill spinner (qty: 1), direct bury, Color; proshield: leaf
 - H14 Sensory panels (qty: 3) w/ 2x2 posts (2 ea), Panels: 1 Color Splash, 2 Kaleidospin, 3 Optigear, Colors; proshield 1: limon, Permalene 1: yellow, proshield 2: yellow, Permalene 2 center: lagoon, Permalene 2 face: sky, proshield 3: leaf, Permalene 3: limon.
 - H15 Chill spinner (qty: 4), direct bury, Colors; proshield 1: leaf, proshield 2: yellow, proshield 3: limon
 - H16 Pulse Table Tennis, direct bury, Standard AC power supply, required



3 FENCE ALIGNMENT DETAIL



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SHEET TITLE:

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JAMES T. KEMPTON, R.L.A.
 REG. NO. 0001493
 LANDSCAPE ARCHITECT



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GENERAL LANDSCAPE NOTES:

- All landscape material shall be FL No. 1 grade or better, as specified in grades and standards for nursery plants, parts I and II, by Division of Plant Industry, Florida Department of Agriculture and Consumer Services, and shall conform to current American Association of Nurseryman Standards for Nursery Stock. Landscape material shall be planted according to sound nursery practices.
- All proposed trees shall be a minimum of 10' overall height, 6' clear trunk with a min. 2.5" trunk caliper at time of planting. Adjust tree locations as necessary to avoid utilities, obstructions, etc. see materials list for exact specifications.
- All required trees shall be located a minimum of 5 feet from impervious surfaces, all shrubs 2 feet.
- An automatic underground irrigation system shall be installed to maintain the landscape area in a healthy manner and provide 100% coverage.
- The contractor shall sod all disturbed areas and is responsible for watering sod and mowing new growth every 14 days for 90 days after final acceptance.
- A layer of mulch to a depth of TWO (2) inches shall be specified on the site plan in plant beds and around individual trees in turf areas. Organic mulches are preferred. The mulch should not be placed directly against the plant stem or tree trunk. Mulch shall not be required in annual beds.
- The contractor shall be responsible for the clean up of premises and removal of all discarded and surplus materials, and rubbish.
- Verify the locations of existing trees, lawns, and shrubs. Remove extraneous materials such as rocks, branches, building materials or unacceptable soils prior to planting sod, trees, and shrubs, where encountered.
- Contractor shall become acquainted with the related paving, site grading, and all utilities (including water, sewer, and electrical supply) to preclude any misunderstandings and ensure a trouble free installation.
- The exact location of all existing structures, underground utilities, and pipes may not be as indicated on drawings; the contractor shall determine the location of these items and shall conduct his work in a manner to prevent interruption or damage to existing systems which must remain operational. The contractor shall protect existing structures and utility services which must remain operational and shall be responsible for their replacement if damaged by him.
- Contractor shall call Sunshine State One-Call at least 48 hours prior to digging. (1-800-432-4770).
- Quantities on plan take precedence over materials list. Quantities on materials list are provided as a courtesy only.
- All landscape material shall be maintained in perpetuity to provided all required FDOT and local site clearance distances for vehicles.

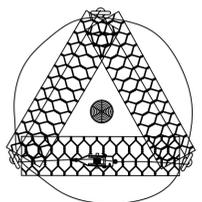
LANDSCAPE MATERIALS LIST

| SYM | Qty | Botanical Name | Common Name | Size/Notes |
|------|-----|--------------------------|--------------------------|--|
| QV | 1 | Quercus virginiana | Live Oak | FG, 18'-18" ht. x 8'-10" sprd, 8" min. c.t., 4"-5" cal., Florida Fancy, Roots Plus |
| QV1 | 5 | Quercus virginiana | Live Oak | 45 gal, 10'-12" ht. x 4'-5" sprd, 2.5" cal. |
| IVS | 26 | Ilex vomitoria 'Nana' | Schillings Holly | 3 gal., 16" ht x 16" sprd @ 30" o.c. |
| SB | 26 | Spartina baken | Sand Cordgrass | 3 gal., 24" x 26" ht. x 20" sprd @ 48" o.c. |
| LM | 22 | Liriope muscari | Liriope | 1 gal. 9"-10" ht. full @ 24" o.c. |
| SOD | - | Paspalum notatum | Bahia Sod | 95% weed free |
| MLCH | - | Pine Bark 'Mini Nuggets' | Pine Bark 'Mini Nuggets' | Cu Yds |

ABBREVIATIONS

| | |
|----------|---------------------|
| B/B | BALLED AND BURLAPED |
| C.T. | CLEAR TRUNK |
| OAH | OVERALL HEIGHT |
| HT. | HEIGHT |
| SPRD. | SPREAD |
| O.C. | ON CENTER |
| GAL. | GALLON |
| CU. YDS. | CUBIC YARDS |
| S.F. | SQUARE FEET |
| (Symbol) | PLANT SYMBOL |
| (Symbol) | QTY. OF PLANTS |

- NOTES**
- DO NOT SCALE FROM THIS DRAWING
 - THIS DRAWING IS CONSTRUCTED USING LAYERS WHICH CAN BE TURNED ON OR OFF AS REQUIRED
 - DUE TO SETTLEMENT ALL TREES SHOULD BE RE-TENSIONED AFTER PLANTING



*Flexi-pave up to 2" within trunk base, refer to detail sheet C5.1, irrigate w/ bubblers per Irrigation Plan

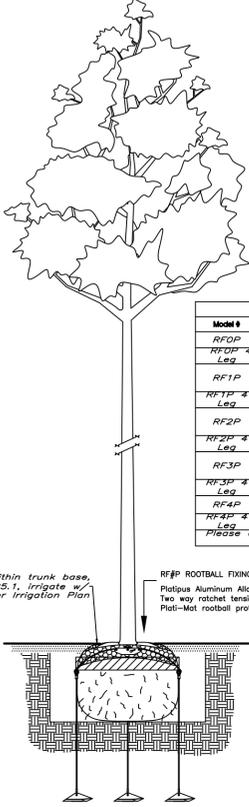
*NOTE ADDED TO MANUFACTURER'S DETAIL

1 ROOTBALL FIXING SYSTEM W/ PLATI-MAT
 L1.0 NOT TO SCALE

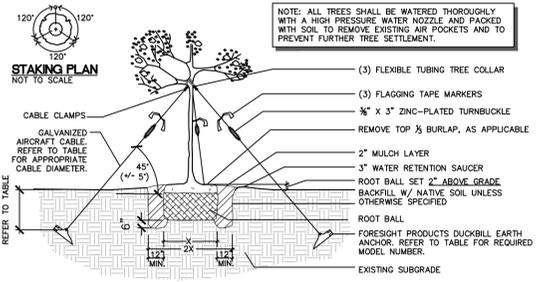
Model List

| Model # | Height - H (ft) | Caliper - In (mm) |
|---------|----------------------|-----------------------------|
| RFOP | Up to 8" | Up to 1.5" |
| RFOP 4 | 8-15" | 1.5" - 3" |
| RF1P | (2.5m - 4.5m) | (40mm - 75mm) |
| RF1P 4 | 12" - 24" Box | |
| RF2P | 15-25" (4.5m - 7.5m) | 3" - 5.75" (75mm - 150mm) |
| RF2P 4 | 24" - 48" Box | |
| RF3P | 25-40" (7.5m - 12m) | 3.75" - 9.5" (95mm - 230mm) |
| RF3P 4 | 48" - 60" Box | |
| RF4P | 40" (12m+) | 9.5" (230mm+) |
| RF4P 4 | 60" - 120" | |

Please contact Platipus representative for boxes over 120"



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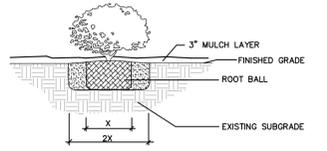
NOTE: ALL TREES SHALL BE WATERED THOROUGHLY WITH A HIGH PRESSURE WATER NOZZLE AND PACKED WITH SOIL TO REMOVE EXISTING AIR POCKETS AND TO PREVENT FURTHER TREE SETTLEMENT.

DUCKBILL EARTH ANCHOR TABLE

| TREE CALIPER | MODEL NUMBER | RATED CAPACITY | MINIMUM DEPTH OF INSTALLATION |
|--------------|--------------|----------------|-------------------------------|
| UP TO 3" | 40-DTS | 300 LBS. EA. | 20" |
| UP TO 6" | 66-DTS | 1,000 LBS. EA. | 30" |
| UP TO 11" | 88-DTS | 3,000 LBS. EA. | 42" |
| NOT RATED | 138-DTS | 5,000 LBS. EA. | 60" |

NOTE: RATED FOR WINDS UP TO 50 MPH

- NOTES:**
- SPACING VARIES SEE PLAN/SCHEDULE
 - PLANT SHALL BEAR THE SAME RELATIONSHIP TO FINISHED GRADE AS IT BORE IN THE CONTAINER
 - PLANTING HOLE SHALL HAVE VERTICAL SIDES.



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 SUNSHINE STATE ONE CALL OF FLORIDA, INC.

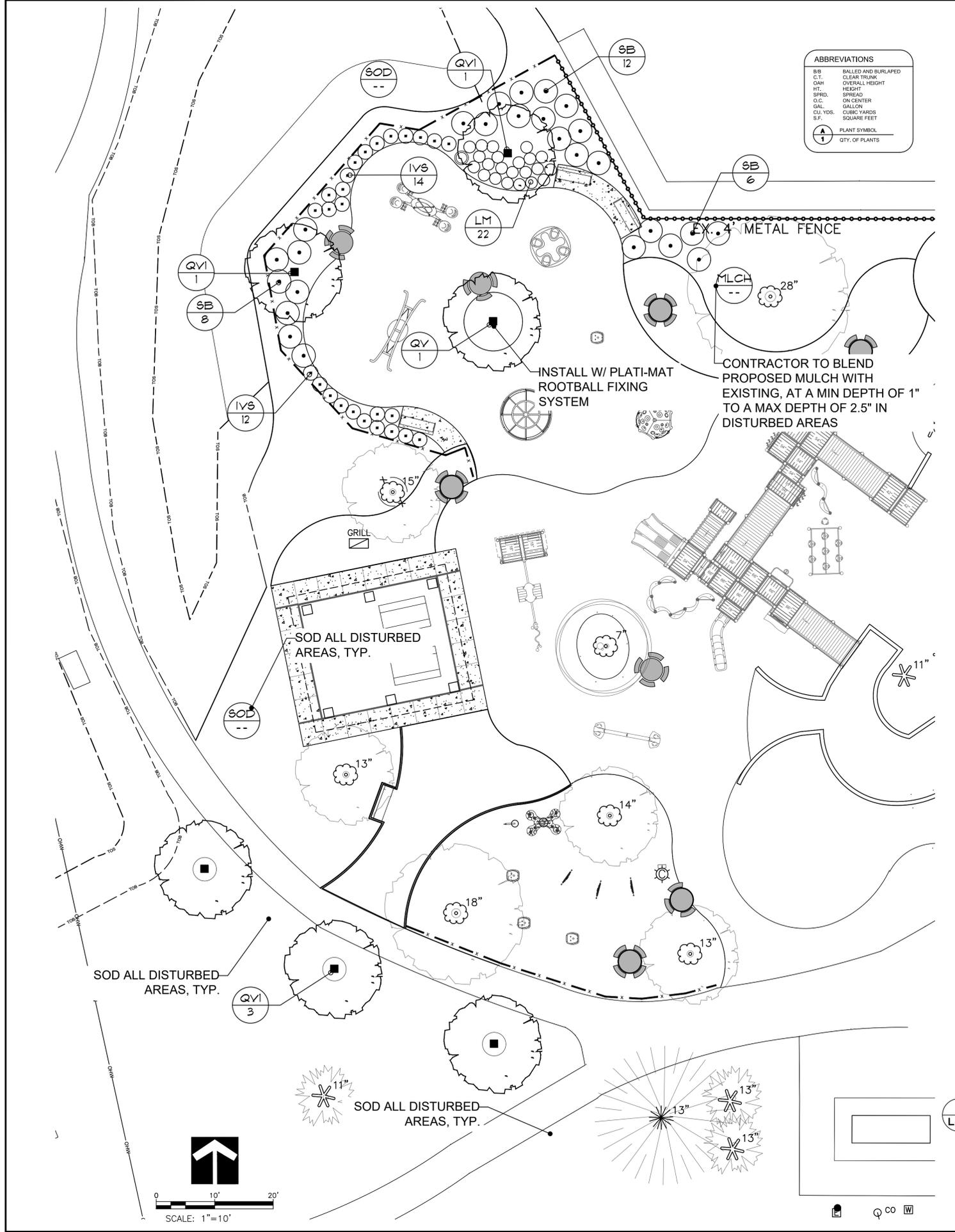
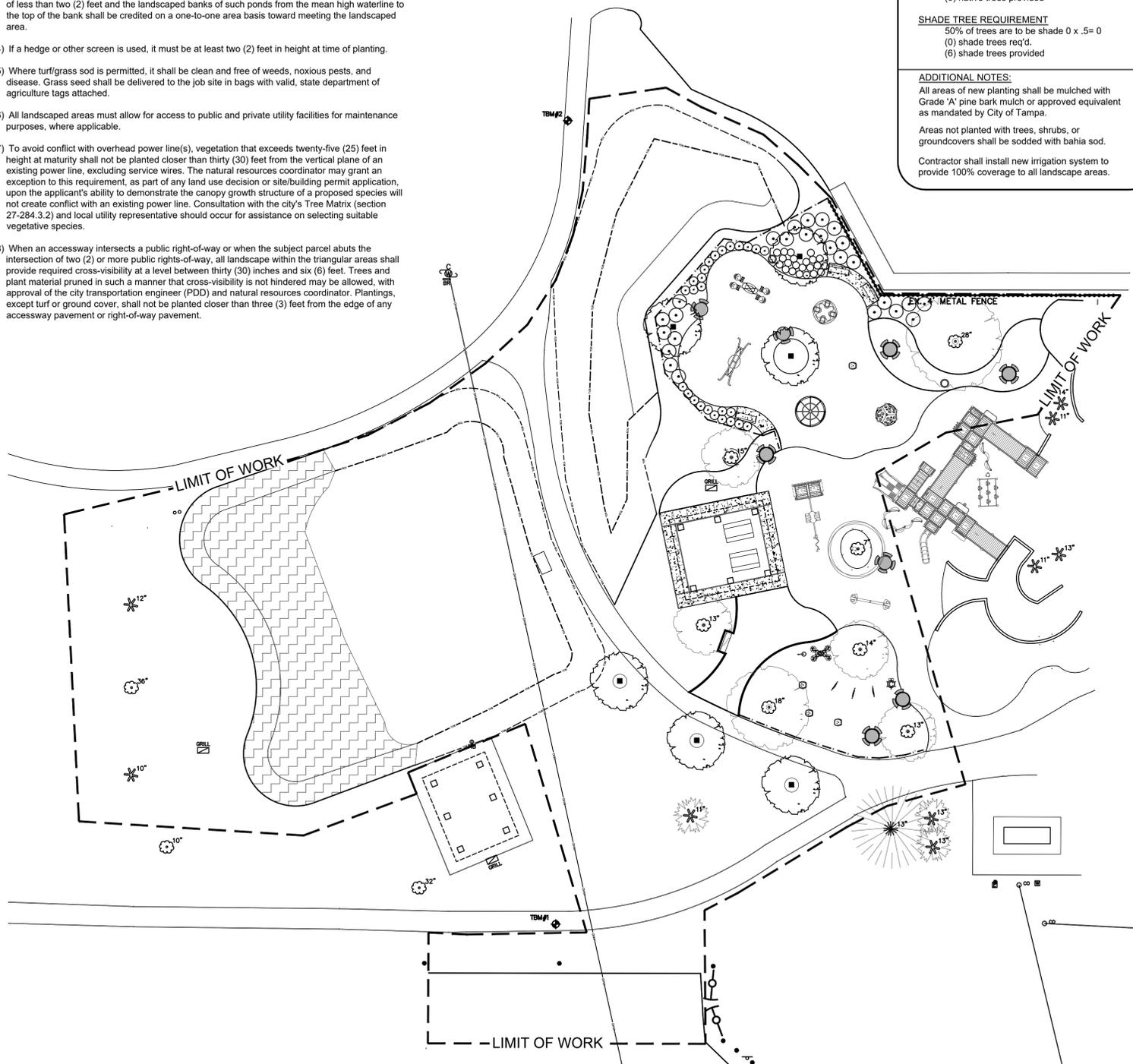


Table 284.3.2-B
General Planting Standards

- (1) Landscaped areas shall consist of at least sixty (60) percent native plant material and/or plant material adapted to local climatic and edaphic conditions. Recommended trees, protected trees and plant material shall be planted in such a way as to conserve, preserve and enhance land uses, natural land features, and natural and aesthetic values. Nonliving natural material which permits percolation may also be used as necessary material in landscaping.
- (2) A layer of mulch to a minimum depth of three (3) inches shall be specified on the site plan in plant beds and around individual trees in turf areas. Organic mulches are preferred. The mulch should not be placed directly against the plant stem or tree trunk. Mulch shall not be required in annual beds. Per Peg Bors, City of Tampa, mulch depth shall be 2".
- (3) Areas on the parcel which are used for stormwater retention or detention ponds with depressions of less than two (2) feet and the landscaped banks of such ponds from the mean high waterline to the top of the bank shall be credited on a one-to-one area basis toward meeting the landscaped area.
- (4) If a hedge or other screen is used, it must be at least two (2) feet in height at time of planting.
- (5) Where turf/grass sod is permitted, it shall be clean and free of weeds, noxious pests, and disease. Grass seed shall be delivered to the job site in bags with valid, state department of agriculture tags attached.
- (6) All landscaped areas must allow for access to public and private utility facilities for maintenance purposes, where applicable.
- (7) To avoid conflict with overhead power line(s), vegetation that exceeds twenty-five (25) feet in height at maturity shall not be planted closer than thirty (30) feet from the vertical plane of an existing power line, excluding service wires. The natural resources coordinator may grant an exception to this requirement, as part of any land use decision or site/building permit application, upon the applicant's ability to demonstrate the canopy growth structure of a proposed species will not create conflict with an existing power line. Consultation with the city's Tree Matrix (section 27-284.3.2) and local utility representative should occur for assistance on selecting suitable vegetative species.
- (8) When an accessway intersects a public right-of-way or when the subject parcel abuts the intersection of two (2) or more public rights-of-way, all landscape within the triangular areas shall provide required cross-visibility at a level between thirty (30) inches and six (6) feet. Trees and plant material pruned in such a manner that cross-visibility is not hindered may be allowed, with approval of the city transportation engineer (PDD) and natural resources coordinator. Plantings, except turf or ground cover, shall not be planted closer than three (3) feet from the edge of any accessway pavement or right-of-way pavement.



LANDSCAPE REQUIREMENTS

Per City of Tampa landscape code (Division 4, Subdivision 2, Section 285)

LANDSCAPE BUFFER (Adjacent to Right-of-Way) - N/A

VUA TREE REQUIREMENTS - N/A

INTERIOR LANDSCAPE REQUIREMENT - N/A

NATIVE TREE REQUIREMENT
60% of trees are to be native 0 x .6= 0
(0) native trees req'd
(6) native trees provided

SHADE TREE REQUIREMENT
50% of trees are to be shade 0 x .5= 0
(0) shade trees req'd
(6) shade trees provided

ADDITIONAL NOTES:
All areas of new planting shall be mulched with Grade 'A' pine bark mulch or approved equivalent as mandated by City of Tampa.
Areas not planted with trees, shrubs, or groundcovers shall be sodded with bahia sod.
Contractor shall install new irrigation system to provide 100% coverage to all landscape areas.

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 | # Mitigation Trees | Total Credits |
| Diameter (inches) / Dripline (feet) | | | | | | | |
| 5" to 10" | 0 | -1 | 0 | | | | |
| 11" to 20" | 5 | -2 | -10 | Grand tree(s) | 1 | 14 | -14 |
| 21" to 25" | 0 | -4 | 0 | | | | |
| 26" to <32" | 1 | -12 | -12 | | | | |
| Subtotal | 6 | | -22 | Subtotal | | | -14 |
| Trees Removed | # of trees | Replacement Multiplier | Total Debits | Grand Trees Removed | # of trees | # Mitigation Trees | Total Debits |
| Diameter (inches) / Dripline (feet) | | | | | | | |
| 5" to 10" | 0 | 1 | 0 | | | | |
| 11" to 20" | 0 | 2 | 0 | Grand tree(s) | 0 | 0 | 0 |
| 21" to 25" | 0 | 3 | 0 | | | | |
| 26" to <32" | 0 | 4 | 0 | | | | |
| Subtotal | 0 | | 0 | Subtotal | | | 0 |
| Type 1: Total Mitigation Trees Required -36 | | | | | | | |

| TYPE 2: TALL & NARROW | | | | | | | |
|--|------------|------------------------|---------------|----------------------|------------|--------------------|---------------|
| Trees Retained | # of trees | Retention Multiplier | Total Credits | Grand Trees Retained | # of trees | # Mitigation Trees | Total Credits |
| Diameter (inches) / Dripline (feet) | | | | | | | |
| 5" to 17" | 0 | -1 | 0 | | | | |
| 18" to 29" | 0 | -2 | 0 | Grand tree(s) | 0 | 0 | 0 |
| 30" to <32" | 0 | -3 | 0 | | | | |
| Subtotal | 0 | | 0 | Subtotal | | | 0 |
| Trees Removed | # of trees | Replacement Multiplier | Total Debits | Grand Trees Removed | # of trees | # Mitigation Trees | Total Debits |
| Diameter (inches) / Dripline (feet) | | | | | | | |
| 5" to 17" | 0 | 1 | 0 | | | | |
| 18" to 29" | 0 | 2 | 0 | Grand tree(s) | 0 | 0 | 0 |
| 30" to <32" | 0 | 3 | 0 | | | | |
| Subtotal | 0 | | 0 | Subtotal | | | 0 |
| Type 2: Total Mitigation Trees Required 0 | | | | | | | |

| TYPE 3: SHORT & WIDE/MULTI-STEM | | | | | | | |
|---|------------|------------------------|---------------|----------------------|------------|--------------------|---------------|
| Trees Retained | # of trees | Retention Multiplier | Total Credits | Grand Trees Retained | # of trees | # Mitigation Trees | Total Credits |
| Diameter (inches) / Dripline (feet) | | | | | | | |
| 5" to 7" | 1 | -1 | -1 | | | | |
| 8" to 17" | 0 | -2 | 0 | Grand tree(s) | 0 | 0 | 0 |
| 18" to 29" | 0 | -3 | 0 | | | | |
| 30" to <32" | 0 | -12 | 0 | | | | |
| Subtotal | 1 | | -1 | Subtotal | | | 0 |
| Trees Removed | # of trees | Replacement Multiplier | Total Debits | Grand Trees Removed | # of trees | # Mitigation Trees | Total Debits |
| Diameter (inches) / Dripline (feet) | | | | | | | |
| 5" to 7" | 0 | 1 | 0 | | | | |
| 8" to 17" | 0 | 2 | 0 | Grand tree(s) | 0 | 0 | 0 |
| 18" to 29" | 0 | 3 | 0 | | | | |
| 30" to <32" | 0 | 4 | 0 | | | | |
| Subtotal | 0 | | 0 | Subtotal | | | 0 |
| Type 3: Total Mitigation Trees Required -1 | | | | | | | |

| PALMS | | | | | | | |
|--|------------|----------------------|---------------|----------------------------|------------|------------------------|--------------|
| Trees Retained | # of trees | Retention Multiplier | Total Credits | Trees Removed | # of trees | Replacement Multiplier | Total Debits |
| Diameter (inches) / Dripline (feet) | | | | | | | |
| Palms with >6' clear trunk | 3 | 1 | -3 | Palms with >6' clear trunk | 3 | 1 | 3 |
| Subtotal | 3 | | -3 | Subtotal | 3 | | 3 |
| Palm: Total Mitigation Trees Required 3 | | | | | | | |

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."



HARDEMAN-KEMPTON & ASSOCIATES, INC.

Landscape Architects & Civil Engineers

2207 W. North A Street
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Ph: 813-258-0066
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PREPARED FOR:
**CITY OF TAMPA
PARKS & RECREATION
DEPARTMENT
306 EAST JACKSON STREET
TAMPA, FL 33602**

PROJECT NAME:
**MACFARLANE PARK
FREEDOM PLAYGROUND EXPANSION**

SHEET TITLE:
LANDSCAPE MITIGATION PLAN

| NO. | DATE | DESCRIPTION |
|-----|----------|------------------------------|
| 1 | 10/16/19 | PER SWFMD COMMENTS |
| 2 | 10/30/19 | REQUEST FROM COT PARKS & REC |
| 3 | 11/19/19 | REQUEST FROM COT PARKS & REC |

PROJ. NO.: C033019K
DATE: 09-04-19
DESIGNED BY: T.K. / T.S.
CHECKED BY: T.K.

JAMES T. KEMPTON, R.L.A.
REG. NO. 0001493
LANDSCAPE ARCHITECT



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SHEET:
L1.1

