CITY OF JACKSONVILLE NOTES

GENERAL

All construction shall be performed in accordance with the approved plans and comply with all standard city policies and practices. City approval is contingent upon any required state or federal permit approvals such as those from the Department of Environmental Protection or the St. Johns River Water Management District (SJRWMD).

UTILITY WORK

Plan approval through Development Services does not include utilities. Proposed water, sewer or electric construction must be approved separately through the respective utility company. In most cases, this will be:

JEA
JEA Tower - 4th Floor
21 W. Church Street
Jacksonville, FL 32202
http://www.jea.com/wps/wcm/connect/jeacontrib/home/developer.shtml

WORK WITHIN THE RIGHT-OF-WAY

CITY: Except for new subdivision infrastructure construction, all work performed within a City of Jacksonville right-of-way or easement requires a Right-of-way Permit. The contractor performing the proposed work must have a current Right-of-way Bond on file with Development Services. Right-of-way Permit applications are processed at:

Development Services Customer Service Counter
Ellen Ball Building - 2nd Floor
214 N. Hogan St.
Jacksonville, FL 32202
(904) 255-8073
http://www.jacksonville/

STATE: All work performed within a state right-of-way requires a permit from the Florida Department of Transportation (FDOT). It is the developer's responsibility to obtain required FDOT permits or maintenance-of-traffic approvals for work within FDOT right-of-ways. The FDOT regional office can be contacted at (904) 360-5200 Any changes to the approved plans needed for FDOT approval must be submitted to Development Services as revisions.

Adjacent State Roads: _____

RAILROAD: Railroad companies may require special approvals or permits to work within their right-of-ways. It is the developer's responsibility to obtain permission from any railroad right-of-way owner before performing any work within their right-of-way.

STORMWATER

Annual reports in compliance with the SJRWMD stormwater permits are required from the maintenance entity of all stormwater management facilities. Send copies of the reports to:

Engineering and Construction Management
Ellen Ball Building, 10th Floor
214 N. Hogan St.
Jacksonville, FL 32202
http://www.coj.net/Departments/Public-Works/Engineering-and-Construction-Management/

The owner of any project one (1) acre or larger is required to provide a Notice of Intent (NOI) in accordance with criteria set forth in the city's NPDES permit within 48 hours of beginning construction. Send NOI and NOI fee to:

Florida Department of Environmental Protection
NPDES Stormwater Notices Center - Mail Station #2510
2600 Blair Stone Road
Tallahassee, Florida 32399-2400
(850) 245-8313
http://www.dep.state.fl.us/water/stormwater/npdes/

The contractor shall contact the City Environmental Quality Division before beginning construction:
Environmental Quality Division
407 North Laura Street, Third Floor
Jacksonville, FL 32202
(904) 255-7100
eqd@coj.net

FIRE MARSHALL

Plan review and approval does not relieve the contractor of complying with all applicable State Fire Codes.

Underground mains and hydrants shall be installed, completed, and in service prior to construction work.

Underground contractor shall submit to the Fire Marshall for approval complete specs for all underground pipe and fittings relating to fire protection PRIOR to installation and inspection. Contractor shall include manufacturer's name and pipe ID along with contractor's state license number.

LANDSCAPE

A Site Work Permit is required for this project.

☐ Tree Fund payment is due: _____ inches at $_____ = $_____

☐ Article 25 funds are due: _____ inches at $_____ = $_____

TRAFFIC ENGINEERING

TRAFFIC SIGNS

Metro Name	_____	$67.00	ea.	_____
Standard	_____	$62.00	ea.	_____
Stop/Yield	_____	$61.00	ea.	_____
Design	_____	$85.00		_____
Installation	_____	$67.00	/hr.	_____
		TOTAL		_____

☐ Streetlights Required

NOTE: Traffic sign costs change from time to time. If the costs change after plan approval but prior to payment for installation, the developer must pay the for the signs at the current costs. The above total assumes the subdivision will be platted as one phase. If the development is platted as separate phases, design and installation will be calculated separately for each phase.

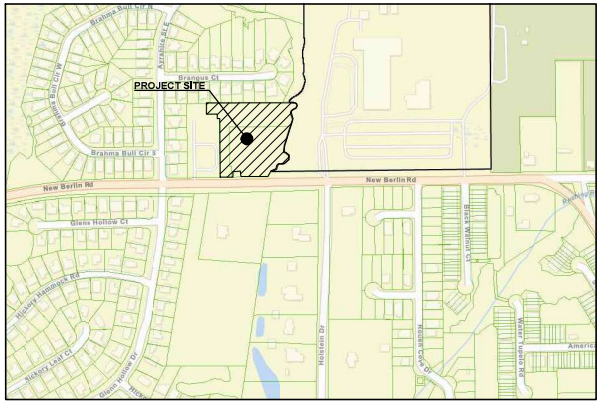
No lane closures allowed from 7 a.m. till 9 a.m. and from 4 p.m. till 6 p.m.

DESIGNER EXPRESSLY RESERVES THE COPYRIGHT AND OTHER PROPERTY RIGHTS WITH THESE DRAWINGS. THESE PLANS, DESIGNS AND DRAWINGS ARE NOT TO BE REPRODUCED, COPIED OR USED IN ANY MANNER WITHOUT EXPRESSED WRITTEN CONSENT OF BAKER DESIGN BUILD, LLC. THESE PLANS SHALL NOT BE DISTRIBUTED TO ANY PARTY WITHOUT SAID WRITTEN CONSENT.

Site Development for:

NEW BERLIN GYM

3549 New Berlin Rd
Jacksonville, Florida 32226



Vicinity Map
N.T.S.

Owner	Civil Engineer
LITTLE TEMPLES NEW BERLIN LLC DONALD HEATH WILLIAMS 3525 NEW BERLIN RD JACKSONVILLE, FLORIDA 32226	Baker Design Build 219 N. Newnan Street, 2nd Floor Jacksonville, FL 32202 Ph: (904) 356-8520 Fx: (904) 559-2676
Surveyor	**Landscape Architect**
BANKS & BANKS CONSULTING, INC. 83 WEST 9TH STREET ATLANTIC BEACH, FLORIDA Ph: (904) 685-2800	Janet O Whitmill, RLA Inc. 1144 Valle Orchard Lane Jacksonville, Florida 32207 Ph: (904) 398-4997

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY:

ENGINEER OF RECORD:
KYLE F. DAVIS, P.E.
BAKER DESIGN BUILD
219 N. NEWNAN STREET, 2ND FLOOR
JACKSONVILLE, FLORIDA 32202

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

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G15-23.004, F.A.C. AS INDICATED BY A (✓).

Sheet List Table

Sheet	Sheet Number	Sheet Title
✓	C1.0	Cover Sheet
✓	C1.1	General Site Notes
	C1.2	Overall Key Map
	--	Survey
✓	C2.0	Overall Demo-Tree Mitigation Plan
	C2.01	Demo-Tree Mitigation Plan
✓	C3.0	Overall Site Plan
✓	C3.01	Site Geometry Plan
✓	C4.0	Overall Water & Sewer Plan
	C4.01	Water & Sewer Plan
	C4.5	Road and Sewer Profiles
✓	C5.0	Overall Grading & Drainage Plan
	C5.01	Grading & Drainage Plan
	C5.5	Neighborhood Lot Grading Plan
✓	C6.0	Pre Development Drainage Map
✓	C6.1	Post Development Drainage Map
✓	C7.0	Overall Sediment & Erosion Control Plan
✓	C7.01	Sediment & Erosion Control Plan
✓	CD1.0	Site Details
✓	CD1.01	Site Details
✓	CD2.0	JEA Std. WaterMain Details
✓	CD2.01	JEA Std. Sanitary Sewer Details
✓	CD3.0	Grading & Drainage Details
✓	CD3.01	Grading & Drainage Details
✓	CD4.0	Sediment & Erosion Control Details
✓	C8.0	Stormwater Pollution Prevention Plan
✓	C8.1	Stormwater Pollution Prevention Forms
✓	C9.0	Maintenance of Traffic Plan
	C10.0	Neighboring Connection Plan
	TM-1	Tree Mitigation Plan
	IR-1	Irrigation Plan
✓	L-1	Landscape Plan
✓	L-2	Landscape Details Plan

PLAN APPROVAL

_____ Date _____ Development Services Division (Chief)

_____ Date _____ Review Group (Reviewer)

Plan approval is valid for five years after the initial approval date. Revisions made after the initial approval date do not extend this five-year time frame.

PLAN APPROVAL IS SUBJECT TO THE FOLLOWING NOTES AND CONDITIONS:

GENERAL PROJECT INFORMATION

GENERAL

City Development Number	10566.000
Concurrency Application Number	-
Property Appraiser Number (RE #)	106536 0210, 106536 0235
Zoning Designation	PUD
PUD Ordinance Number	1974-0173
FIRM - Community - Panel	12031C0204J
Flood Zones (Show in Plans)	"X" & "AE"
Base Flood Elev. (Show in Plans)	-
Vertical Datum Used for Project	NGVD 29 OR NAVD 88
JEA Availability Number	-

SUBDIVISION

PSD Number	-
City or Private Inspection	-
Public or Private Roads	-
Subdivision ("911") Disk Provided?	-

NON-SUBDIVISION

North American Industry Classification System (NAICS)	713940
Impervious Area (Sq. Ft.)	66,647 SF

CALL 48 HOURS BEFORE YOU DIG
IT'S THE LAW!
DIAL 811
811 Know what's below. Call before you dig.
SUNSHINE STATE ONE CALL OF FLORIDA, INC.

BAKER Design Build
219 N. Newnan Street, 2nd Floor, Jacksonville FL 32202
p 904 356 8520 f 904 559 2678 bakerdesign.build
C.A No. 32489

Kyle F. Davis, PE
Digitally signed by Kyle F. Davis, PE
DN: C=US, E=kdavis@bdbjax.com, O=Baker Design Build, CN=Kyle F. Davis, PE
Reason: I am the author of this document
Date: 2023.06.22 14:30:29-04'00'

Kyle F. Davis, P.E.
FL Reg. 63071

REVISIONS

No.	Date	Revision
1	3-23-23	Permit
2	4-19-23	Permit
3	5-5-23	Permit
4	6-19-23	Permit
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Site Development for:
New Berlin Gym
3549 New Berlin Rd
Jacksonville, Florida 32226

Project Number
22-0280

Sheet Name
Cover Sheet

Sheet Number
C1.0

GENERAL SITE NOTES

1. ALL WORK AND MATERIALS SHALL BE IN COMPLETE ACCORDANCE WITH ALL RELATIVE SECTIONS OF "CITY STANDARD SPECIFICATIONS FOR CITY OF JACKSONVILLE, FLORIDA", (LATEST REVISION), ALL CURRENT CITY STANDARD DETAILS, AND IF APPLICABLE, FLORIDA DEPARTMENT OF TRANSPORTATION CURRENT STANDARD SPECIFICATIONS AND DETAILS.
2. SOIL BORINGS PERFORMED BY NAME DATED 00-00-00.
3. THIS PROPERTY LIES PARTIALLY WITHIN FLOOD ZONE "X" & "AE" ACCORDING TO FEMA COMMUNITY PANEL NO. 12031C0204J.
4. ELEVATIONS ARE BASED ON NAVD 88 DATUM.
5. TOPOGRAPHIC INFORMATION BASED ON SURVEY PROVIDED BY BANKS & BANKS CONSULTING, INC..
6. BOUNDARY INFORMATION BASED ON SURVEY PROVIDED BY BANKS & BANKS CONSULTING, INC..
7. LIMITS OF CONSTRUCTION SHALL BE, UNLESS OTHERWISE NOTED, THE PROPERTY LINES AS SHOWN ON THE DRAWINGS.
8. ALL WORK SHALL BE PERFORMED IN A SAFE MANNER. ALL SAFETY RULES AND GUIDELINES OF O.S.H.A. SHALL BE FOLLOWED. THE CONTRACTOR SHALL BE WHOLLY RESPONSIBLE FOR ANY INJURIES OF HIS EMPLOYEES, AND ANY DAMAGE TO PRIVATE PROPERTY OR PERSONS DURING THE COURSE OF THIS PROJECT. ALL COSTS ASSOCIATED WITH COMPLYING WITH OSHA REGULATIONS AND THE FLORIDA TRENCH SAFETY ACT MUST BE INCLUDED IN THE CONTRACTORS BID.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VISITING THE JOB SITE PRIOR TO PREPARING THE BID FOR THE PURPOSE OF FAMILIARIZING HIMSELF WITH THE NATURE AND THE EXTENT OF THE WORK AND LOCAL CONDITIONS, EITHER SURFACE OR SUBSURFACE, WHICH MAY AFFECT THE WORK TO BE PERFORMED, AND THE EQUIPMENT, LABOR AND MATERIALS REQUIRED. FAILURE TO DO SO WILL NOT RELIEVE THE CONTRACTOR OF COMPLETE PERFORMANCE UNDER THIS CONTRACT. THE CONTRACTOR SHALL PROVIDE THE CITY WITH A PRE-CONSTRUCTION VIDEO TAPE OF THE PROJECT AREA DETAILING THE EXISTING CONDITIONS ALONG THE CONSTRUCTION ROUTE. THIS VIDEO TAPE WILL USED TO HELP DETERMINE THE EXTENT AND NATURE OF REMOVAL AND REPLACEMENT ITEMS AND TO AIDE IN THE SETTLEMENT OF ANY DISPUTES ARISING POST CONSTRUCTION.
10. PRIOR TO STARTING CONSTRUCTION WITHIN THE RIGHT-OF-WAY AREAS, THE CONTRACTOR SHALL CONTACT EACH PROPERTY OWNER ALONG THE ROUTE OF THE WORK AREA AND LOCATE ANY EXISTING IRRIGATION/SPRINKLER SYSTEMS THAT WOULD BE AFFECTED BY CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE RELOCATION/DAMAGE/REPLACEMENT OF ANY IRRIGATION/SPRINKLER SYSTEMS ON EITHER PRIVATE PROPERTY OR CITY OR STATE RIGHT-OF-WAYS, DUE TO DAMAGE FROM WORK BEING PERFORMED BY THE CONTRACTOR AND/OR SUB-CONTRACTORS. THE CONTRACTOR SHALL HAVE THREE(3) WORKING DAYS TO REPAIR THE DAMAGED IRRIGATION/SPRINKLER SYSTEM FROM THE DATE OF DAMAGE. IF THE IRRIGATION/SPRINKLER SYSTEM HAS NOT BEEN REPAIRED WITHIN THREE(3) WORKING DAYS, THE ENGINEER/CITY WILL NOTIFY THE CONTRACTOR IN WRITING THAT THE CONTRACTOR HAS FIVE(5) ADDITIONAL DAYS IN WHICH TO REPAIR THE DAMAGED IRRIGATION/SPRINKLER SYSTEM OR THE CITY WILL AUTHORIZE THE PROPERTY OWNER OF SAID DAMAGED AREA TO HAVE THE SYSTEM REPAIRED BY AN INDEPENDENT IRRIGATION/SPRINKLER SYSTEM COMPANY AND THAT COST WILL BE DEDUCTED FROM THE CONTRACTOR'S FINAL PRICE.
11. SHOULD A CONFLICT ARISE BETWEEN THE DETAILS SHOWN IN THESE DRAWINGS AND THE STANDARDS ISSUED BY THE APPLICABLE AGENCIES, THE STANDARDS ISSUED BY THE CONTROLLING AGENCY WILL GOVERN.
12. NO ADDITIONAL COMPENSATION, BASED UPON A COMPARISON BETWEEN THE CONTRACTORS ASSUMED QUANTITIES AND FINAL "IN PLACE" QUANTITIES SHALL BE ALLOWED. THE EXCEPTION SHALL BE THE AUTHORIZED CHANGES IN THE SCOPE OF WORK TO BE PERFORMED.
13. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO EITHER CONDUCT ANY FIELD EXPLORATION OR ACQUIRE ANY GEOTECHNICAL ASSISTANCE REQUIRED TO ESTIMATE THE AMOUNT OF UNSUITABLE MATERIAL THAT WILL REQUIRE REMOVAL AND/OR TO ESTIMATE THE AMOUNT OF OFF-SITE BORROW THAT WILL BE REQUIRED.
14. ALL IMPROVEMENTS SHOWN ARE TO BE WARRANTED BY THE CONTRACTOR TO THE DEVELOPER FOR A PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTANCE BY THE OWNER. IF THE WORK IS IN PUBLIC RIGHT-OF-WAY OR EASEMENT, THE CONTRACTOR'S ONE YEAR WARRANTY SHALL EXTEND TO THE CITY OF JACKSONVILLE AND ASSOCIATED GOVERNMENT AGENCIES.
15. FOR PAVEMENT AND BUILDING GEOMETRY INFORMATION SEE ENGINEERING SITE PLAN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THAT THE BUILDING DIMENSIONS SHOWN ON THE ENGINEERING SITE PLAN AGREES WITH THE DIMENSIONS SHOWN ON THE ARCHITECTURAL PLAN. IF ANY DIMENSIONS DO NOT AGREE, THE ARCHITECT, ENGINEER AND OWNER SHALL BE NOTIFIED AND THE DIMENSIONS ADJUSTED PRIOR TO COMMENCING WITH CONSTRUCTION.
16. THE CONTRACTOR WILL CONTRACT WITH AN INDEPENDENT TESTING LABORATORY TO PERFORM MATERIAL TESTING AND SOILS TESTING IN ACCORDANCE WITH CITY REQUIREMENT AND THE RECOMMENDATIONS OUTLINED IN THE GEOTECHNICAL REPORT. THIS SHALL INCLUDE DENSITY TESTS IN ALL PAVEMENT AREAS AND BUILDING PADS AND IN ALL UTILITY TRENCHES LOCATED IN PAVEMENT AREAS, CONCRETE TESTING AND ALL OTHER MATERIAL TESTING.
17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND INSURANCE REQUIRED FOR THE PROJECT INCLUDING CITY OF JACKSONVILLE OR FLORIDA DEPARTMENT OF TRANSPORTATION RIGHT-OF-WAY PERMITS FOR WORK WITHIN CITY OR STATE RIGHTS-OF-WAY OR EASEMENTS.
18. THE CONTRACTOR SHALL COORDINATE THE WORK WITHIN CITY OR STATE RIGHT-OF-WAY WITH THE PROPER AGENCIES FOR MAINTENANCE OF TRAFFIC AND METHOD OF CONSTRUCTION & REPAIR.
19. TO ENSURE A SMOOTH TRANSITION BETWEEN NEW AND EXISTING PAVEMENT, THE CONTRACTOR SHALL SAWCUT AND REMOVE A TWELVE(12) INCH STRIP OF EXISTING PAVEMENT.
20. THE CONTRACTOR SHALL COORDINATE THE PAVING AND DRAINAGE CONSTRUCTION WITH ALL OTHER SITE AND UTILITY WORK.
21. ALL EASEMENTS ARE TO BE CLEARED AND DRIVEABLE.
22. "AS-BUILT" DRAWINGS TO APPLICABLE AGENCIES, THE CITY OF JACKSONVILLE, DEPARTMENT OF PUBLIC WORKS, FLORIDA DEPARTMENT OF TRANSPORTATION, AND THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT ARE REQUIRED TO BE SIGNED AND SEALED BY A FLORIDA REGISTERED LAND SURVEYOR. THEREFORE, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTRACT WITH A LAND SURVEYOR REGISTERED IN THE STATE OF FLORIDA FOR THE PREPARATION, FIELD LOCATIONS, CERTIFICATION AND SUBMITTAL OF "AS-BUILT" DRAWINGS IN ACCORDANCE WITH CURRENT CITY OF JACKSONVILLE, JEA, FLORIDA DEPARTMENT OF TRANSPORTATION STANDARDS AND SPECIFICATIONS, AND SJRWMD REGULATIONS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROCESS THE AS-BUILT DRAWINGS FOR APPROVAL BY THE CITY OF JACKSONVILLE.
23. THE CONTRACTOR SHALL COORDINATE THEIR CONSTRUCTION WITH ALL OTHER CONTRACTORS. IN THE EVENT OF ANY CONFLICT WHATSOEVER, THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND OWNER PRIOR TO PROCEEDING WITH CONSTRUCTION.
24. ALL CLEARING AND GRUBBING REQUIRED FOR ALL PAVEMENT, UTILITIES, DITCHES, AND BERMS INCLUDED IN THIS PROJECT AND THE CLEARING AND GRUBBING OF ALL RIGHTS-OF-WAY OR EASEMENTS SHALL BE CONSIDERED AS PART OF THIS PROJECT.
25. ALL AREAS SHOWN TO BE FILLED SHALL BE CLEARED AND GRUBBED IN ACCORDANCE WITH CITY STANDARDS AND SHALL BE FILLED WITH CLEAN STRUCTURAL FILL COMPACTED AND TESTED IN ACCORDANCE WITH THE GEOTECHNICAL INVESTIGATION REPORT.
26. CONTRACTOR IS RESPONSIBLE FOR PROTECTION OF ALL SURVEY AND PROPERTY MONUMENTS. IF A MONUMENT IS DISTURBED, THE CONTRACTOR SHALL CONTRACT WITH THE SURVEYOR OF RECORD FOR REINSTALLATION OF THE MONUMENT.
27. ALL DISTURBED AREAS EITHER ON-SITE OR OFF-SITE SHALL BE RESTORED AS FOLLOWS; PAVEMENT AND CONCRETE SHALL BE REPLACED MATCHING THE EXISTING, NON PAVED AREAS SHALL BE (SODDED OR SEEDED & MULCHED).
28. ALL DEBRIS RESULTING FROM ALL ACTIVITIES SHALL BE DISPOSED OF OFF-SITE BY CONTRACTOR.
29. ALL UNSUITABLE MATERIAL UNDER BUILDINGS, PAVEMENT OR UTILITIES SHALL BE REMOVED IN ACCORDANCE WITH THE GEOTECHNICAL INVESTIGATION REPORT.
30. ALL UNSUITABLE MATERIAL IS TO BE REMOVED FROM THE SITE BY THE CONTRACTOR, UNLESS DIRECTED OTHERWISE BY ENGINEER OR OWNER.
31. EXCESS SUITABLE MATERIAL IS TO BE REMOVED FROM THE SITE BY THE CONTRACTOR, UNLESS DIRECTED OTHERWISE BY ENGINEER OR OWNER.
32. ALL EXISTING TREES TO REMAIN SHALL BE PRESERVED AND PROTECTED.
33. THE BURNING OF TREES, BRUSH OR OTHER MATERIAL SHALL BE APPROVED BY AND COORDINATED WITH THE FIRE MARSHALL.
34. THE LOCATION OF ALL EXISTING UTILITIES, STRUCTURES AND IMPROVEMENTS SHOWN ON THE DRAWINGS IS BASED ON LIMITED INFORMATION AND MAY NOT HAVE BEEN FIELD VERIFIED. THE LOCATIONS ARE APPROXIMATE. THE CONTRACTOR SHALL NOTIFY RESPECTIVE UTILITY OWNERS AND FIELD VERIFY LOCATIONS OF EXISTING UTILITIES AND OTHER IMPROVEMENTS PRIOR TO COMMENCING ANY CONSTRUCTION. IF THE LOCATIONS SHOWN ARE CONTRARY TO THE ACTUAL LOCATIONS, THE CONTRACTOR SHALL NOTIFY THE OWNER AND ENGINEER OF THE DISCREPANCY. THIS DISCREPANCY SHOULD BE RESOLVED PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHEN WORKING IN AREAS NEAR EXISTING UTILITIES AND IMPROVEMENTS AND SHALL BE RESPONSIBLE FOR AND SHALL PAY FOR ALL DAMAGE MADE TO EXISTING UTILITIES OR OTHER IMPROVEMENTS. PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION, THE CONTRACTOR SHALL VERIFY ALL GRADES, INVERTS AND TYPE OF MATERIAL OF EXISTING UTILITIES TO WHICH HE SHALL CONNECT.
35. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS ON ALL STRUCTURES TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO PURCHASE OR CONSTRUCTION OF ANY UTILITY PIPE OR STRUCTURE.
36. FOR ALL STANDARD DETAILS SEE CITY OF JACKSONVILLE AND IF APPLICABLE, FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS AND DETAILS, LATEST REVISION.
37. ALL PIPE LENGTHS ARE SCALED DIMENSIONS. ALL DRAINAGE STRUCTURES SHALL BE CONSTRUCTED TO CONFORM WITH CITY REQUIREMENTS AND SHALL BE CONSTRUCTED TO CONFORM WITH CURBS, PROPERTY LINES AND LOW POINTS AS SHOWN ON THE PLANS.
38. CONTRACTOR SHALL INSURE THAT ALL DRAINAGE STRUCTURES, PIPES, ETC. ARE CLEAN AND FUNCTIONING PROPERLY AS SHOWN ON THE PLANS.
39. ALL DRAINAGE STRUCTURES SHALL HAVE TRAFFIC BEARING GRATES UNLESS NOTED OTHERWISE.
40. ALL DRAINAGE PIPE JOINTS IN CITY DRAINAGE EASEMENTS AND DRAINAGE RIGHT-OF-WAYS ARE TO BE FILTER-WRAPPED.
41. ALL INVERTS IN DRAINAGE STRUCTURES TO BE PRECAST OR BRICK WITH LAYER OF MORTAR BETWEEN EACH LAYER OF BRICK, REDDI-MIX CONCRETE WITH #57 STONE.
42. UNSUITABLE MATERIALS UNDER WATER, SEWER, STORM PIPE AND STRUCTURES SHALL BE REMOVED AND REPLACED WITH SELECTED BACKFILL, PROPERLY COMPACTED.
43. ALL UNDERGROUND UTILITIES MUST BE INSTALLED PRIOR TO PREPARATION OF SUBGRADE FOR PAVEMENT.
44. ALL WATER AND SEWER CONSTRUCTION WITHIN THE CITY OF JACKSONVILLE SHALL BE ACCOMPLISHED BY AN UNDERGROUND UTILITY CONTRACTOR LICENSED UNDER THE PROVISIONS OF CHAPTER 489 FLORIDA STATUTES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO KEEP A COPY OF HIS CURRENT LICENSE AND QUALIFIERS WITH THE DESIGN ENGINEER PRIOR TO START OF AND THROUGHOUT CONSTRUCTION.
45. CONTRACTOR SHALL PROVIDE, TO THE ENGINEER, A SCHEDULE OF INVERT ELEVATIONS OF ALL MANHOLES PRIOR TO THE PLACEMENT OF LIMEROCK BASE COURSE. THIS SCHEDULE IS TO BE PROVIDED BY THE REGISTERED LAND SURVEYOR SUBMITTING THE "AS-BUILT" DRAWINGS FOR THIS PROJECT.
46. THESE PLANS INCLUDING THE STORMWATER POLLUTION PREVENTION PLAN INDICATE THE MINIMUM EROSION & SEDIMENT CONTROL MEASURES REQUIRED FOR THIS PROJECT. FOR ADDITIONAL INFORMATION ON SEDIMENT AND EROSION CONTROL REFER TO "THE FLORIDA DEVELOPMENT MANUAL – A GUIDE TO SOUND LAND AND WATER MANAGEMENT" FROM THE STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP) CHAPTER 6. CONTRACTOR SHALL PROVIDE EROSION PROTECTION AND TURBIDITY CONTROL AS REQUIRED TO INSURE CONFORMANCE TO STATE AND FEDERAL WATER QUALITY STANDARDS AND MAY NEED TO INSTALL ADDITIONAL CONTROLS TO CONFORM TO AGENCIES REQUIREMENTS. IF A WATER QUALITY VIOLATION OCCURS, THE CONTRACTOR SHALL BE WHOLLY RESPONSIBLE FOR ALL DAMAGES, AND ALL COSTS WHICH MAY RESULT INCLUDING LEGAL FEES, CONSULTANT FEES, CONSTRUCTION COSTS AND FINES.
47. THE CONTRACTOR IS RESPONSIBLE FOR FOLLOWING THE BEST EROSION AND SEDIMENT CONTROL PRACTICES AS OUTLINED IN THE PLANS AND SPECIFICATIONS, THE SJRWMD CRITERIA, AND FDEP.
48. EROSION AND SEDIMENT CONTROL BARRIERS SHALL BE PLACED ADJACENT TO ALL WETLANDS AREAS WHERE THERE IS POTENTIAL FOR DOWNSTREAM WATER QUALITY DEGRADATION.
49. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING A PERMANENT STAND OF SOD AND/OR GRASS PER CITY OF JACKSONVILLE STANDARDS AND MEETING THE NPDES FINAL STABILIZATION REQUIREMENTS.
50. IF DEWATERING CAPACITY REQUIRES A CONSUMPTIVE USE PERMIT (C.U.P.) IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN THE PERMIT THROUGH THE SJRWMD OR FDEP.
51. PRIOR TO ANY DISCHARGE OF GROUNDWATER (DEWATERING) FROM CONSTRUCTION ACTIVITIES ASSOCIATED WITH THIS PROJECT TO WATERS OF THE STATE (INCLUDING, BUT NOT LIMITED TO, WETLANDS, SWALES AND MUNICIPAL STORM SEWERS), THE CONTRACTOR SHALL TEST THE EFFLUENT (WATER TO BE DISCHARGED) IN ACCORDANCE WITH RULE 62-621.300(2), F.A.C. IF THE TEST RESULTS ON THE EFFLUENT ARE BELOW SCREENING VALUES OF RULE 62-621.300(2), F.A.C., THE CONTRACTOR SHALL SUBMIT A SUMMARY OF THE PROPOSED CONSTRUCTION ACTIVITY AND THE TEST RESULTS TO THE DEPARTMENT OF ENVIRONMENTAL PROTECTION DISTRICT OFFICE, WITHIN ONE (1) WEEK AFTER DISCHARGE BEGINS. THE CONTRACTOR SHALL CONTINUE TO SAMPLE THE EFFLUENT AS REQUIRED THROUGHOUT THE PROJECT AND COMPLY WITH ALL CONDITIONS OF RULE 62-621.300(2), F.A.C. IF THE GROUNDWATER EXCEEDS THE SCREENING VALUES OF RULE 62-621.300(2), F.A.C., THE CONTRACTOR SHALL COMPLY WITH OTHER APPLICABLE RULES AND REGULATIONS PRIOR TO DISCHARGE OF THE EFFLUENT (GROUNDWATER) TO SURFACE WATERS OF THE STATE.
52. THE CONTRACTOR SHALL SUBMIT A "NOTICE OF INTENT" TO THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION 48 HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION IN ACCORDANCE WITH THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) RULES AND REGULATIONS.
53. THE CONTRACTOR SHALL ERECT ALL TREE PROTECTION FENCES AND LIMITS OF CONSTRUCTION FENCES 48 HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION AND SHALL CALL FOR INSPECTION BY THE CITY OF JACKSONVILLE LANDSCAPE DIVISION.
54. THE CONTRACTOR SHALL PROVIDE HANDICAP RAMPS AT ALL SIDEWALK AND CURB CONNECTIONS. HANDICAP RAMPS SHALL MEET ALL APPLICABLE ADA REQUIREMENTS.
55. ALL SEWER MAINS SHALL BE PVC (ASTM D3034) SDR-35 FOR DEPTHS TO 12 FEET, SDR-26 FOR DEPTHS GREATER THAN 12 FEET (OR FOR MAINS IN EASEMENTS) UNLESS OTHERWISE NOTED. FORCEMAINS TO BE PVC – DR18 PIPE UNLESS OTHERWISE NOTED.
56. WATER AND SEWER LINES ARE DESIGNED TO FINISHED GRADES AND SHALL BE PROTECTED UNTIL FINISHED WORK IS COMPLETE.
57. TIE RODDING OR MECHANICAL RESTRAINING DEVICES ARE REQUIRED IN ACCORDANCE WITH JEA STANDARDS WHERE WATER MAINS ARE TERMINATED AND AT ALL BENDS AND TEES.
58. UNLESS OTHERWISE NOTED, ALL WATERMAINS 4" AND GREATER SHALL BE DR18, C-900. ALL JEA OWNED WATERMAINS 2" AND SMALLER MUST BE HDPE.
59. ALL GATE VALVES SHALL BE JEA STANDARD. VALVES SHALL BE MECHANICAL JOINT, CAST IRON, BRONZE FITTED WITH RESILIENT SEAT. ALL VALVES SHALL OPEN BY TURNING TO THE LEFT. VALVES SHALL BE RATED AT 200 PSI WORKING PRESSURE AND 400 PSI TEST PRESSURE.
60. PUBLIC FIRE HYDRANTS SHALL BE PAINTED YELLOW. PRIVATE FIRE HYDRANTS SHALL BE PAINTED RED.
61. TELEVISION INSPECTION SHALL BE REQUIRED ON ALL GRAVITY SEWER MAINS. THIS SERVICE SHALL BE PROVIDED BY THE CONTRACTOR AS PART OF THE SANITARY SEWER CONTRACT. ALL GRAVITY SEWER LINES SHALL BE VIDEO TAPED WITH AUDIO. ALL LINES TO BE CLEARED AND FLUSHED PRIOR TO BEING VIDEO TAPED. A FULL WRITTEN REPORT AS TO THE CONDITION OF THE PIPE WITH PERTINENT DATA SUCH AS DISTANCE BETWEEN MANHOLES, LOCATION OF SERVICES, ETC. SHALL BE SUBMITTED TO THE OWNER AND ENGINEER PRIOR TO ACCEPTANCE AND ONE COPY OF THE VIDEO TAPE SHALL BE SUBMITTED TO JEA WATER AND SEWER BUSINESS UNIT. ALL DEFECTIVE AREAS AND ITEMS SHALL BE REPLACED OR REPAIRED PRIOR TO FINAL ACCEPTANCE. ALL REPAIRED SECTIONS MUST BE REINSPECTED PRIOR TO ACCEPTANCE. THE MAXIMUM DEFLECTION SHALL NOT EXCEED 7.5% IN ACCORDANCE WITH JEA STANDARDS.
62. THE CONTRACTOR SHALL AVOID SERVICE INTERRUPTIONS AND MAINTAIN ANY EXISTING WATER AND SEWER SERVICE TO MEET THE SYSTEM DEMANDS AT ALL TIMES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFICATION OF AFFECTED CUSTOMERS OF THE UTILITY A MINIMUM OF 48 HOURS IN ADVANCE OF ANY INTERRUPTION OF SERVICE.
63. ALL NEW AND/OR RELOCATED WATER MAIN PIPES AND FITTINGS SHALL NOT CONTAIN MORE THAN 8% LEAD AND ALL PACKING AND JOINT MATERIALS USED IN THE JOINTS SHALL CONFORM WITH ALL APPLICABLE AWWA STANDARDS. ALL NEW AND/OR RELOCATED WATER SERVICES AND PLUMBING SHALL CONTAIN NO MORE THAN 8% LEAD AND ALL SOLDERS AND FLUX SHALL CONTAIN NO MORE THAN 0.2% LEAD.
64. ALL UTILITY STUBOUTS SHALL BE MARKED AS FOLLOWS:
    - SANITARY SEWER — 4X4 P.T. POST PAINTED RED
    - WATER — 4X4 P.T. POST PAINTED BLUE
    - STORM — 4X4 P.T. POST PAINTED GREEN

    ALL STUBOUTS SHALL BE MARKED ON CURB WITH "W", "SS" OR "ST".
65. CONTRACTOR SHALL OBTAIN A COPY OF JEA, WATER AND SEWER PERMITS, FROM THE ENGINEER PRIOR TO CONSTRUCTION.
66. CONTRACTOR SHALL FURNISH AND INSTALL LOCATE WIRING ON ALL PVC WATER MAINS, FORCE MAINS, POLYETHYLENE AND PVC WATER SERVICES. INSTALLATION SHALL BE IN ACCORDANCE WITH JEA WATER AND SEWER STANDARDS DATED APRIL, 2001 SECTION 350 PARAGRAPH 3.10 LOCATE WIRE AND SECTION 429 PARAGRAPH 3.12 LOCATE WIRE.
67. PAVEMENT MARKINGS SHOULD BE PLACED AS SHOWN ON THE PLANS AND DETAIL SHEETS.
68. ANY REQUIRED TEMPORARY MARKINGS MUST BE IN PLACE BEFORE OPENING LANES OF TRAFFIC. PAY ITEMS FOR TEMPORARY PAVEMENT MARKINGS ARE TO BE INCLUDED IN THE TABULATION OF QUANTITIES.
69. THE REMOVAL OF EXISTING PAVEMENT MARKINGS WILL CONSIDERED AN INCIDENTAL ITEM WITH NO ADDITIONAL COMPENSATION PROVIDED.
70. ALL PERMANENT PAVEMENT MARKINGS SHALL BE EXTRUDED THERMOPLASTIC AND MEET CURRENT CITY OF JACKSONVILLE SPECIFICATIONS AND/OR FDOT STANDARD SPECIFICATIONS, LATEST EDITION.
71. THERMOPLASTIC PAVEMENT MARKINGS ARE TO BE PLACED NO SOONER THAN 30 CALENDAR DAYS AFTER THE COMPLETION OF THE FINAL PAVEMENT LAYER.
72. A BITUMINOUS REFLECTIVE PAVEMENT MARKER (RPM) ADHESIVE MEETING CURRENT CITY OF JACKSONVILLE AND/OR FDOT SPECIFICATIONS SHALL BE USED ON ASPHALT ROADWAYS.
73. THE CONTRACTOR SHALL USE CLASS-B REFLECTIVE PAVEMENT MARKERS (RPMs) INSTALLED TO MEET CURRENT CITY OF JACKSONVILLE SPECIFICATIONS AND/OR FDOT STANDARD SPECIFICATIONS.
74. REFLECTIVE PAVEMENT MARKERS THAT DO NOT CONFLICT WITH PERMANENT (THERMOPLASTIC) MARKINGS SHALL BE PLACED ON ALL FINAL ASPHALTIC CONCRETE SURFACES IMMEDIATELY AFTER THE TEMPORARY PERMANENT STRIPING IS IN PLACE.
75. PAVEMENT MARKINGS REMOVAL;
    a. PAINT BLACKOUT METHOD OF PAVEMENT MARKINGS REMOVAL IS NOT ACCEPTABLE.
    b. GRINDING OF HYDRO BLAST METHODS SHALL BE USED ON WEATHERED ASPHALT SURFACES.
    c. REMOVAL ON NEW ASPHALT SURFACES SHALL BE BY HYDRO BLAST METHOD ONLY.
76. THE CONTRACTOR SHALL CONTACT THE PAVEMENT MARKING INSPECTOR (904) 255-7550, 48 HOURS PRIOR TO INSTALLING ANY PAVEMENT MARKINGS ON ANY CITY OF JACKSONVILLE ROADWAY OR STREET.
77. IN THE EVENT OF A CONFLICT BETWEEN THE SPECIFICATIONS OF THE CITY OF JACKSONVILLE AND THE SPECIFICATIONS OF THE FDOT, THE CITY OF JACKSONVILLE WILL PREVAIL.

LEGEND

- CITY – CITY OF JACKSONVILLE (COJ)
- FDEP – FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
- SJRWMD – ST. JOHNS RIVER WATER MANAGEMENT DISTRICT
- JEA – JACKSONVILLE ELECTRIC AUTHORITY
- F.A.C. – FLORIDA ADMINISTRATIVE CODE
- NPDES – NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

JEA STANDARD NOTES

1. ALL WATER MAINS SHALL BE PRESSURE TESTED AT 150 PSI FOR 2 HOURS AND FORCE MAINS SHALL BE TESTED AT 100 PSI FOR 2 HOURS IN ACCORDANCE WITH SECTION "A" OF AWWA STANDARD C600 WITH LEAKAGE LIMITED TO THAT DETERMINED BY THE APPROPRIATE FORMULA.
2. DISINFECTION OF THE WATER MAIN SHALL BE PERFORMED IN ACCORDANCE WITH AWWA C651.
3. MECHANICAL JOINT RESTRAINTS SHALL CONFORM TO AWWA STANDARD C509.
4. WATER AND SEWER PIPES SHALL BE 30 INCHES MIN. COVER IN UNPAVED AREAS AND 36 INCHES COVER IN PAVED AREAS.
5. ALL WORK WILL BE PERFORMED IN ACCORDANCE WITH LATEST JEA STANDARDS, DETAILS, AND SPECIFICATIONS AND/OR AS ALL APPLICABLE STATE AND LOCAL REGULATIONS.
6. WHERE WATER AND SEWER (INCLUDING STORM SEWER) LINES HAVE LESS THAN 10 FOOT HORIZONTAL SEPARATION, FULL UN-CUT LENGTHS OF WATER QUALITY PIPE (I..E. DR 18 AWWA C-900 FOR NEWLY INSTALLED SEWER AND DR 25 AWWA C-900 WATER) WILL BE USED WITH THE JOINTS STAGGERED AT 10 FT. INTERVALS OR THEY WILL BE PLACED ON AN UNDISTURBED SHELF OR IN A SEPARATE TRENCH WITH A MINIMUM VERTICAL SEPARATION OF AT LEAST 18 INCHES. IT IS PREFERABLE TO HAVE THE WATER MAINS LOCATED ABOVE THE SEWER AND WITH 10 FOOT OF SEPARATION WHERE POSSIBLE.
7. ALL POTABLE PVC PIPE 3 INCHES IN DIAMETER OR LESS SHALL BE LISTED AS NSF-PW AND SHALL BE MARKED.
8. WHERE IT IS NOT POSSIBLE FOR WATER AND SEWER (INCLUDING STORM SEWER) LINES TO CROSS WITH A MINIMUM OF 18 INCHES OF VERTICAL CLEARANCE, A FULL UN-CUT LENGTH OF WATER QUALITY PIPE (I.E. DR 18 AWWA C-900 FOR NEWLY INSTALLED SEWER AND DR 25 AWWA C-900 WATER) WHICH IS USUALLY 20 FEET LONG WILL BE CENTERED ON THE POINT OF CROSSING. THE CONTRACTOR WILL FIELD VERIFY THE VERTICAL SEPARATION. THE MINIMUM VERTICAL SEPARATION BETWEEN THE WATER AND SEWER (INCLUDING STORM SEWER) PIPES WHEN 18 INCHES IS NOT POSSIBLE WILL BE 6 INCHES OUTSIDE DIAMETER TO OUTSIDE DIAMETER. IT IS PREFERABLE TO HAVE THE WATER MAIN ABOVE THE SEWER LINES AT LEAST 18 INCHES VERTICAL SEPARATION.
9. A FULL UNCUT LENGTH OF WATER MAIN PIPE (USUALLY 20 FEET) SHALL BE CENTERED AT THE POINT OF CROSSING OF ALL WATER AND SEWER (INCLUDING STORM) LINES AT THE POINT OF CROSSINGS REGARDLESS OF THE VERTICAL SEPARATIONS.
10. IN THE CASE WHERE SOLVENT CONTAMINATION IS FOUND IN THE TRENCH, WORK WILL BE STOPPED AND THE PROPER AUTHORITIES NOTIFIED, WITH THE APPROVAL OF THE JEA AND/OR FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION, DUCTILE IRON PIPE WILL EXTEND AT LEAST 100 FEET BEYOND ANY DISCOVERED SOLVENT.
11. A PRE-CONSTRUCTION CONFERENCE IS REQUIRED AND SHALL BE SCHEDULED WITH JEA DEVELOPMENT; CHRIS BARRINGTON @ 665-4081.
12. A JEA STANDARD PUMP-OUT (MIN. 4" DIA.) SHALL BE REQUIRED ON FORCE MAIN AND LOCATION ADJACENT TO R/W ON PRIVATE PROPERTY. PUMP-OUT MUST BE ACCESSIBLE BY JEA FORCES FROM ADJACENT STREET R/W.
13. THE WATER TAPS DEPICTED ON THESE DESIGN DRAWINGS SHALL BE CONSTRUCTED AS FOLLOWS: ALL POTABLE AND IRRIGATION WATER TAPS, FIRE LINE SERVICES AND FIRE HYDRANT INSTALLATIONS UNDER THE FOLLOWING SPECIAL CONDITIONS: UNLESS OTHERWISE DIRECTED BY JEA AT TIME OR PRE-CONSTRUCTION CONFERENCE.
    A. THE TAPS ARE TO BE SCHEDULED 48 HOURS IN ADVANCE BY CONTACTING YOUR JEA INSPECTOR.
    B. TAPS REQUIRING METER INSTALLATIONS OF SIZE 2" AND BELOW MUST INCLUDE THE SERVICE PIPE, METER BOX, AND CORP. STOP SIZED READY TO ACCEPT THE METER INSTALLATION BY JEA FORCES.
    C. JEA FORCES WILL INSTALL METER UPON APPLICATION AND PAYMENT BY LICENSED MASTER PLUMBER OR UTILITY CONTRACTOR AT JEA WATER AND SEWER, 515 N. LAURA STREET., 1ST FLOOR CUSTOMER SERVICE BUILDING.
    D. ALL TAPS REQUIRING METER INSTALLATIONS OF SIZE 3" AND ABOVE SHALL TERMINATE SIZED READY FOR VAULT. METER AND BYPASS INSTALLATIONS BY JEA FORCES.
14. MAXIMUM DISTANCE FROM THE NEAREST FIRE HYDRANT TO THE MOST REMOTE EXTERIOR POINT OF ANY BUILDING SHALL BE 500 FT. THE DISTANCE SHALL BE MEASURED ON A ROADWAY SURFACE MEETING THE FIRE DEPARTMENT ACCESS REQUIREMENTS OF 602.6.
15. THE CONTRACTOR SHALL INSTALL ANY ADDITIONAL AIR RELEASE VALVES AT CHANGES IN ELEVATION OF 2 FT. DUE TO ACTUAL FIELD CONDITIONS OR CONFLICTS NOT IDENTIFIED ON THESE DESIGN PLANS. (FORCE MAIN ONLY)
16. JEA REQUIRES THAT A WATER AND SEWER AVAILABILITY BE PERFORMED ON ALL PROJECTS (COMMERCIAL AND RESIDENTIAL) SUBMITTED THROUGH THIS OFFICE FOR REVIEW.

CITY OF JACKSONVILLE PUBLIC WORKS DEPARTMENT TRAFFIC ENGINEERING DIVISION PAVEMENT MARKING STANDARDS:

1. PAVEMENT MARKINGS SHOULD BE PLACED AS SHOWN ON THE PLANS AND DETAIL SHEETS.
2. ANY REQUIRED TEMPORARY MARKINGS MUST BE IN PLACE BEFORE OPENING LANES OF TRAFFIC. PAY ITEMS FOR TEMPORARY PAVEMENT MARKINGS ARE TO BE INCLUDED IN THE TABULATION OF QUANTITIES.
3. THE REMOVAL OF EXISTING PAVEMENT MARKINGS WILL BE CONSIDERED AN INCIDENTAL ITEM WITH NO ADDITIONAL COMPENSATION PROVIDED.
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6. A BITUMINOUS REFLECTIVE PAVEMENT MARKER (RPM) ADHESIVE MEETING CURRENT CITY OF JACKSONVILLE AND/OR FDOT SPECIFICATIONS SHALL BE USED ON ASPHALT ROADWAYS.
7. THE CONTRACTOR SHALL USE CLASS-B REFLECTIVE MARKERS (RPM's) INSTALLED TO MEET CURRENT CITY OF JACKSONVILLE SPECIFICATIONS AND/OR FDOT STANDARD SPECIFICATIONS
8. REFLECTIVE PAVEMENT MARKERS THAT DO NOT CONFLICT WITH PERMANENT (THERMOPLASTIC) MARKINGS SHALL BE PLACED ON ALL FINAL ASPHALTIC CONCRETE SURFACES IMMEDIATELY AFTER THE TEMPORARY PERMANENT STRIPING IS IN PLACE.
9. PAVEMENT MARKING REMOVAL;
    (a) PAINT BLACKOUT METHOD OF PAVEMENT MARKINGS IS NOT ACCEPTABLE.
    (b) GRINDING OR HYDRO BLAST METHODS SHALL BE USED ON WEATHERED ASPHALT SURFACES.
    (c) REMOVAL ON NEW ASPHALT SURFACES SHALL BE BY HYDRO BLAST METHOD ONLY.
10. THE CONTRACTOR SHALL CONTACT THE PAVEMENT MARKING INSPECTOR (904) 255-7550 48 HOURS PRIOR TO INSTALLING ANY PAVEMENT MARKINGS ON ANY CITY OF JACKSONVILLE ROADWAY OR STREET.
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C.A No. 32489

Kyle F. Davis, P.E.
FL Reg. 63071

REVISIONS

No.	Date	Revision
1	3-23-23	Permit
2	4-12-23	Permit
3	5-8-23	Permit
4	6-15-23	Permit
-	-	-
-	-	-
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-	-	-
-	-	-
-	-	-
-	-	-

Site Development for:

New Berlin Gym

3549 New Berlin Rd
Jacksonville, Florida 32226

Project Number
22-0280

Sheet Name
General Site Notes

Sheet Number
C1.1

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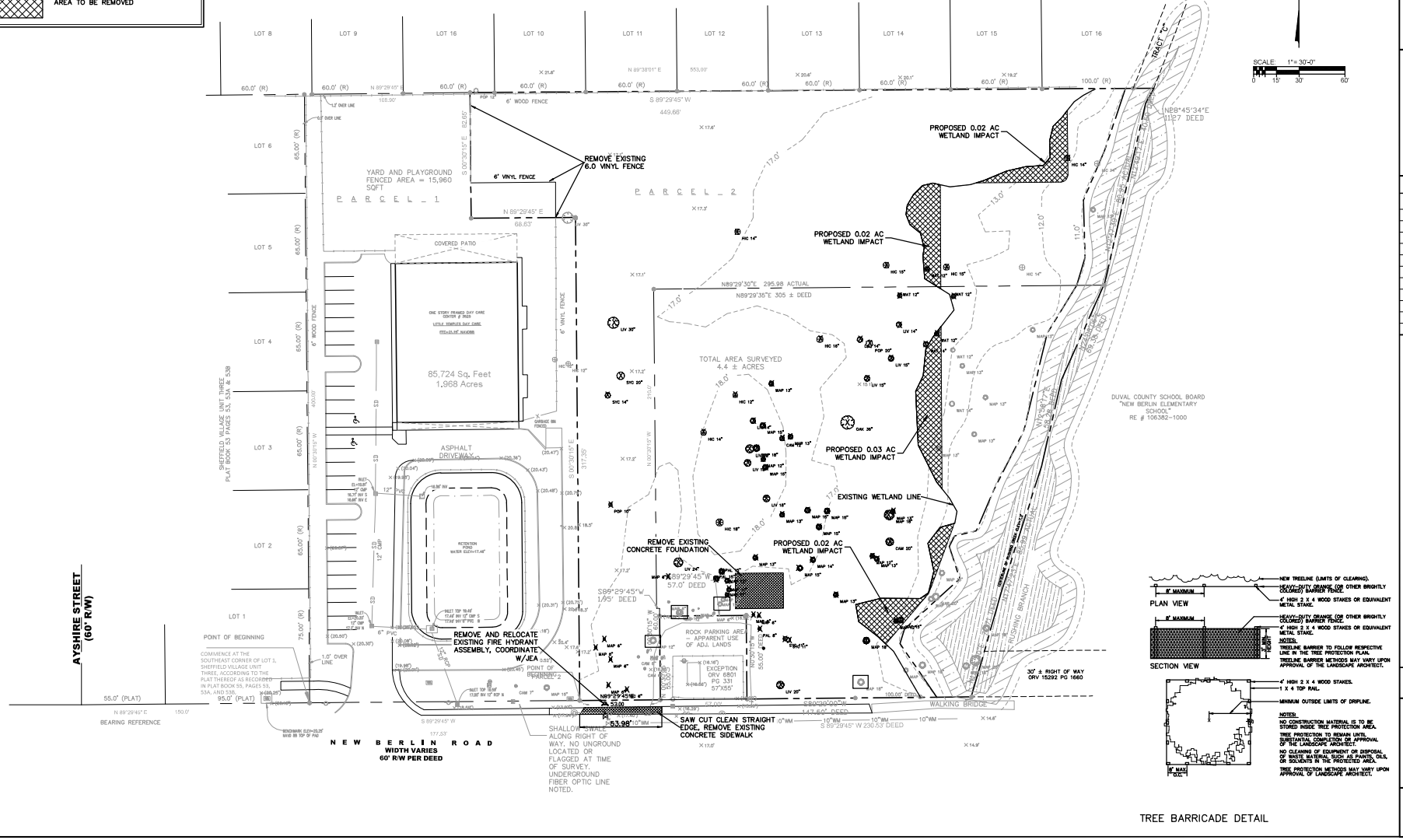
DEMOLITION NOTES

1. REMOVE ASPHALT/CONCRETE PAVEMENT
2. REMOVE BUILDING/STRUCTURE
3. REMOVE CURB & GUTTER
4. REMOVE DRIVEWAY/SIDEWALK/CONCRETE PAD
5. REMOVE SANITARY SEWER PIPE/STRUCTURE/LIFT STATION
6. REMOVE FORCEMAIN PIPE/STRUCTURE
7. REMOVE WATERMAIN PIPE/STRUCTURE
8. REMOVE STORM SEWER PIPE/STRUCTURE
9. TREES TO BE REMOVED. SEE TREE MITIGATION PLAN PREPARED BY LANDSCAPE ARCHITECT
10. REMOVE STRIPING
11. REMOVE UTILITY/LIGHT POLES & FIXTURES

X(1) TREES TO BE REMOVED

AREA TO BE REMOVED



TREE BARRICADE DETAIL

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Site Development for:

New Berlin Gym

3549 New Berlin Rd
Jacksonville, Florida 32226

Project Number
22-0280

Sheet Name
Site & Tree Protection Plan

Sheet Number
C2.0

LEGEND

- RETAINING WALL
- PROPERTY LINE
- FENCE (CHAINLINK)
- FENCE (WOODEN)
- BRL
- EASEMENT
- CURB & GUTTER
- CENTERLINE
- LOT LINE
- POND (TOB) — TOB —
- DITCH (TOB)
- CONCRETE
- PAVEMENT (STANDARD DUTY)

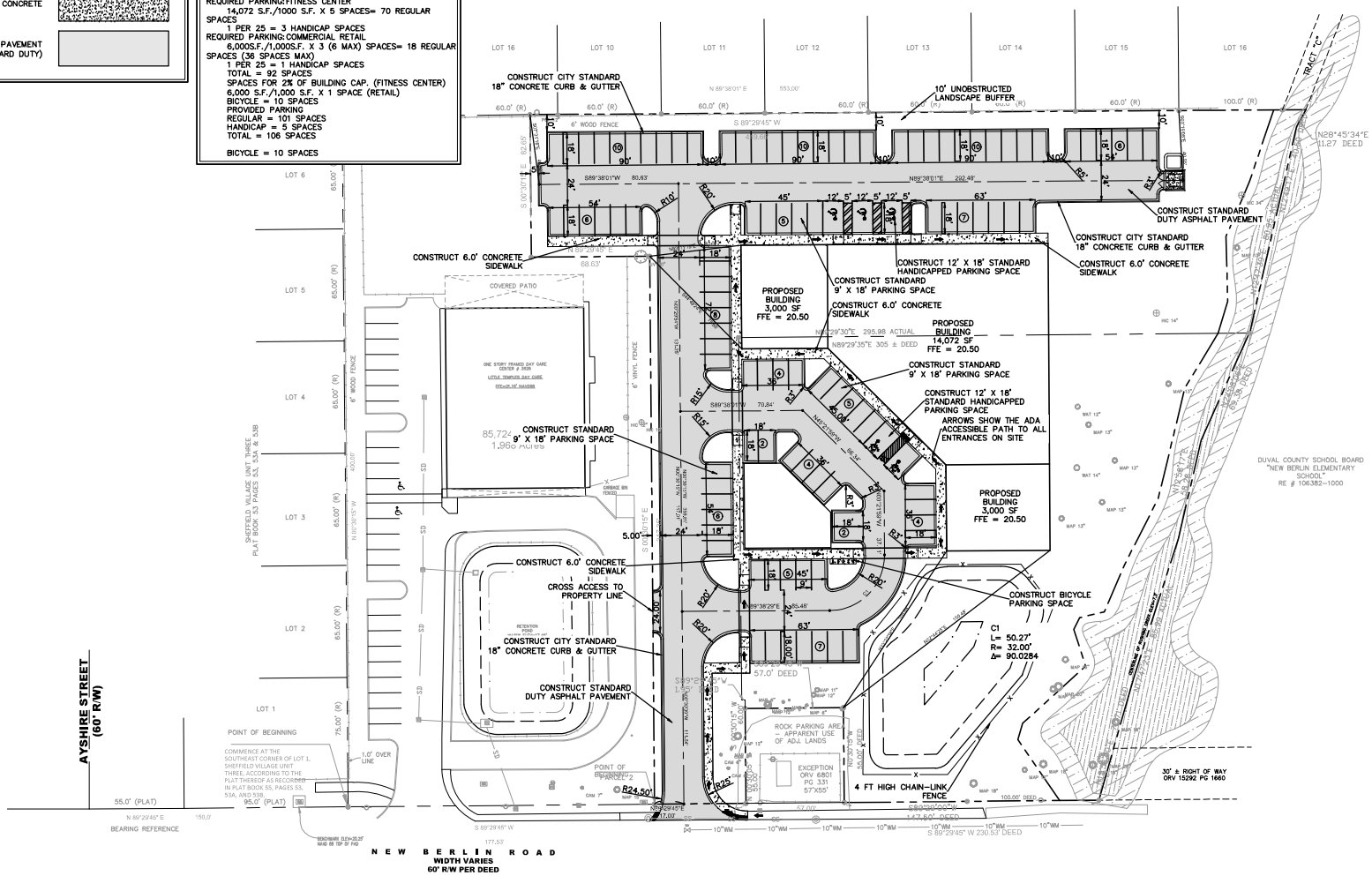
SITE DEVELOPMENT SUMMARY:

REAL ESTATE No (RE#): 106536 0210, 106536 0235
SITE AREA = 3.40 ACRES
DEVELOPMENT AREA = 3.40 ACRES
LANDUSE = COMMERCIAL
ZONING = PUD (ORDINANCE 74-173-182 IN COMPLIANCE WITH CN ZONING)
I.S.R. = 45%
F.A.R. = 14% (50% MAX.)
SETBACKS:
FRONT = 10
SIDE = NONE
BACK = 10
BUILDING HEIGHT = 35' (MAX.)
BUILDING AREA:
BUILDING = 20,072 S.F. (0.46 ACRES)
POND AREA:
POND = 8,020.31 S.F. (6.0%)
REQUIRED PARKING:FITNESS CENTER
14,072 S.F./1000 S.F. X 5 SPACES= 70 REGULAR SPACES
1 PER 25 = 3 HANDICAP SPACES
REQUIRED PARKING:COMMERCIAL RETAIL
6,000S.F./1,000S.F. X 3 (6 MAX) SPACES= 18 REGULAR SPACES (36 SPACES MAX)
1 PER 25 = 1 HANDICAP SPACES
TOTAL = 92 SPACES
SPACES FOR 2% OF BUILDING CAP. (FITNESS CENTER)
6,000 S.F./1,000 S.F. X 1 SPACE (RETAIL)
BICYCLE = 10 SPACES
PROVIDED PARKING
REGULAR = 101 SPACES
HANDICAP = 5 SPACES
TOTAL = 106 SPACES

BICYCLE = 10 SPACES

GENERAL GEOMETRY NOTES:

1. ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH COJ REQUIREMENTS, LATEST EDITION.
2. ALL DIMENSIONS ARE TO FACE OF CURB UNLESS SHOWN OTHERWISE ON PLANS.
3. ALL CURB AND GUTTER SHALL BE CONSTRUCTED ON-SITE. REFER TO PLAN FOR SIZE AND TYPE.
4. THE BUILDING CONTRACTOR SHALL VERIFY ALL BUILDING DIMENSIONS WITH ARCHITECTURAL PLANS. IF DIMENSIONS DIFFER FROM THOSE SHOWN HEREIN, CONTACT THE PROJECT ENGINEER PRIOR TO CONSTRUCTION STAKEOUT.
5. ALL BUILDING TIES AND DIMENSIONS ARE TO THE OUTSIDE FACE OF WALL.
6. ALL PERMANENT MARKINGS SHALL BE EXTRUDED THERMOPLASTIC AND MEET THE CURRENT CITY AND FDOT STANDARD SPECIFICATIONS, LATEST EDITION.
7. SEE SHEET C1.1 FOR GENERAL NOTES.
8. SEE SHEET CD1.0-1.1 FOR SITE DETAILS.



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Site Development for:

New Berlin Gym

3549 New Berlin Rd
Jacksonville, Florida 32226

Project Number
22-0280

Sheet Name
Overall Site Plan

Sheet Number
C3.0

LEGEND

- FORCE MAIN
- WATER MAIN
- SANITARY SEWER MAIN
- REDUCED PRESSURE BACKFLOW PREVENTER
- METER BOX
- SERVICE W/METER BOX
- GATE VALVE
- REDUCER
- 90° BEND
- 45° BEND
- 22 1/2° BEND
- 11 1/4° BEND
- TEE
- END CAP
- SAMPLE POINT
- FIRE HYDRANT
- SAN. SEWER MANHOLE
- PUMP OUT BOX
- LIFT STATION

GENERAL UTILITY NOTES:

1. WATER MAINS SHALL BE (DR18) UNLESS SPECIFIED OTHERWISE ON THESE PLANS.
2. MINIMUM DEPTH OF WATER MAIN AND SERVICE CONNECTIONS SHALL BE NO LESS THAN 30" INCHES AND NO LESS THAN 36" WITHIN A PAVED AREA.
3. MAINTAIN A HORIZONTAL CLEARANCE OF TEN FEET (10') BETWEEN WATER MAIN AND SANITARY SEWER SERVICE.
4. MAINTAIN A VERTICAL CLEARANCE OF ONE FOOT (12") BETWEEN WATER MAIN AND SANITARY SEWER SERVICE.
5. ALL SANITARY SEWER PIPE SHALL BE (SDR26) UNLESS SPECIFIED OTHERWISE ON THESE PLANS.
6. SANITARY SEWER CLEANOUTS SHALL BE SIX (6") INCHES UNLESS OTHERWISE NOTED ON PLANS.

SCALE: 1"= 30'-0"
0 15' 30' 60'

JEA

Hydrant Flow Letter

Availability #: 2023-0312 2023-C312-0001

Kyle Davis 4/19/2023
Baker Design Build
219 N. Newnan Street 2nd Floor
Jacksonville, Florida 32202

Re: Hydrant flow letter for New Berlin Gym

Kyle,

A flow test was conducted on 04/19/2023 at 12:48 PM

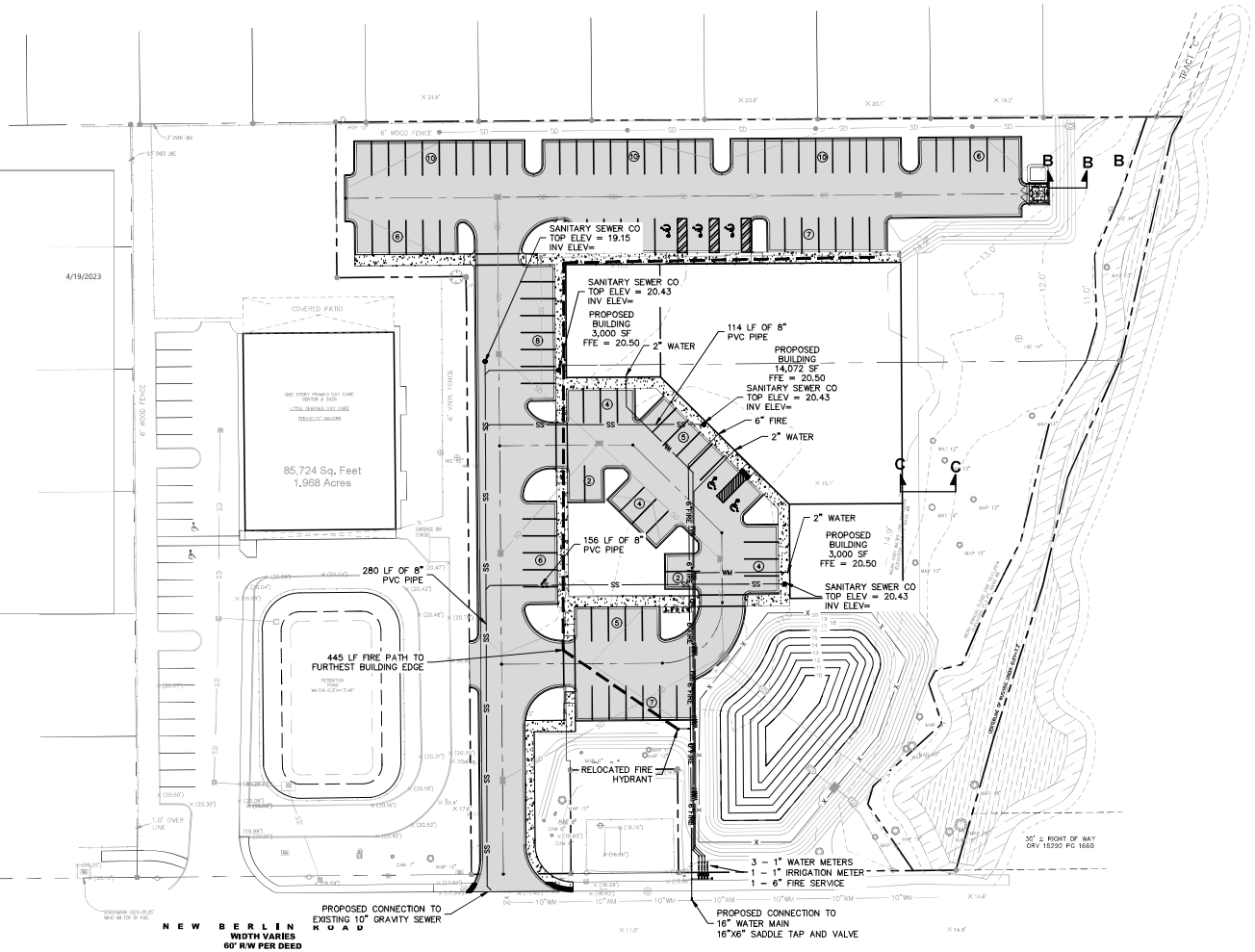
The flow hydrant location:
NEW BERLIN RD 295' E OF AYRSHIRE ST E (9054)

The static residual hydrant location:
NEW BERLIN RD & HOLSTEIN DR (4963)

Number of Ports	**3**
Diameter of Ports (inch)	**2.5**
Pitot Pressure (psi)	**21**
Static Pressure (psi)	**66**
Residual Pressure (psi)	**52**

The following computational results based on the above variables and NFPA section 291 (2002 edition) are as follows:

Flow at Test (gpm)	**2320**
Flow at 20 psi (gpm)	**4410**



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Site Development for:

New Berlin Gym

3549 New Berlin Rd.
Jacksonville, Florida 32226

Project Number
22-0280

Sheet Name

Overall Water & Sewer Plan

Sheet Number

C4.0

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LEGEND

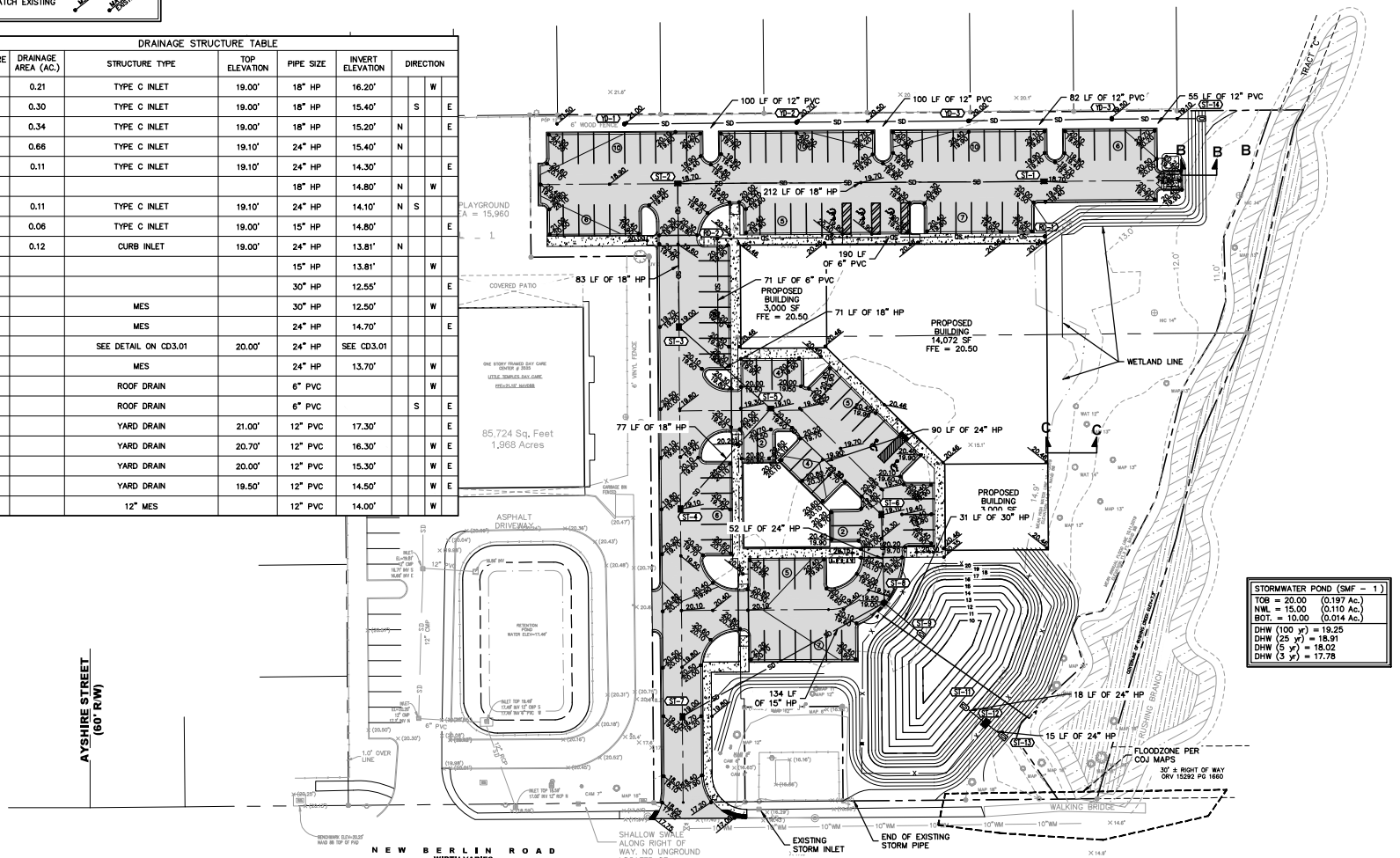
- STORM SEWER MAIN
- CONTOUR LINE — 20
- MAJOR DRAINAGE DIVIDE
- MINOR DRAINAGE DIVIDE
- STRUCTURE NUMBER — S-X
- STORM SEWER MANHOLE
- STORM SEWER INLET
- YARD INLET HDPE
- STORM SEWER CURB INLET
- MITERED END
- STORM SEWER ENDWALL
- FLOW ARROW (PAVEMENT)
- FLOW ARROW (SWALE)
- SPOT ELEVATION — XX.XX
- MATCH EXISTING — MATCH EXIST.

GENERAL DRAINAGE NOTES:

1. ALL DIMENSIONS ARE FROM THE FACE OF CURB UNLESS SHOWN OTHERWISE ON THESE PLANS.
2. REFER TO PAVING AND DRAINAGE DETAILS FOR PAVEMENT THICKNESS.
3. UNDERDRAIN SHOWN IS THE MINIMUM REQUIRED BASED ON GEOTECHNICAL REPORT. FINAL DETERMINATION WILL BE MADE BASED ON TEST HOLE OBSERVATIONS DURING CONSTRUCTION.
4. THE ENTIRE BUILDING AREA AND ALL PAVEMENT AREAS EXTENDING 5.0' FROM THE EDGE OF EACH FOUNDATION OR PAVEMENT EDGE SHALL BE CLEARED AND GRUBBED. REMOVE AND REPLACE ANY UNSUITABLE MATERIAL.
5. SEE SHEET CD1.0 FOR DETAILS ON PLACEMENT OF STRUCTURAL FILL.
6. ALL ROOF DRAINS SHALL BE 6" PVC (SDR 35), UNLESS OTHERWISE NOTED ON THESE PLANS. 30" MINIMUM DEPTH OF BURY. ROOF DRAINS SHALL BE INSTALLED AT A MINIMUM SLOPE OF 1.0%. COORDINATE ROOF DRAIN CONNECTIONS WITH THE ARCHITECTURAL PLANS.

DRAINAGE STRUCTURE TABLE

STRUCTURE NUMBER	DRAINAGE AREA (AC.)	STRUCTURE TYPE	TOP ELEVATION	PIPE SIZE	INVERT ELEVATION	DIRECTION			
ST-1	0.21	TYPE C INLET	19.00'	18" HP	16.20'			W	
ST-2	0.30	TYPE C INLET	19.00'	18" HP	15.40'		S		E
ST-3	0.34	TYPE C INLET	19.00'	18" HP	15.20'	N			E
ST-4	0.66	TYPE C INLET	19.10'	24" HP	15.40'	N			
ST-5	0.11	TYPE C INLET	19.10'	24" HP	14.30'				E
				18" HP	14.80'	N		W	
ST-6	0.11	TYPE C INLET	19.10'	24" HP	14.10'	N	S		
ST-7	0.06	TYPE C INLET	19.00'	15" HP	14.80'				E
ST-8	0.12	CURB INLET	19.00'	24" HP	13.81'	N			
				15" HP	13.81'			W	
				30" HP	12.55'				E
ST-9		MES		30" HP	12.50'			W	
ST-11		MES		24" HP	14.70'				E
ST-12		SEE DETAIL ON CD3.01	20.00'	24" HP	SEE CD3.01				
ST-13		MES		24" HP	13.70'			W	
RD-1		ROOF DRAIN		6" PVC				W	
RD-2		ROOF DRAIN		6" PVC			S		E
YD-1		YARD DRAIN	21.00'	12" PVC	17.30'				E
YD-2		YARD DRAIN	20.70'	12" PVC	16.30'			W	E
YD-3		YARD DRAIN	20.00'	12" PVC	15.30'			W	E
YD-4		YARD DRAIN	19.50'	12" PVC	14.50'			W	E
ST-14		12" MES		12" PVC	14.00'			W	



STORMWATER POND (SMF - 1)	
TOB = 20.00	(0.197 Ac.)
NWL = 15.00	(0.110 Ac.)
BOT. = 10.00	(0.014 Ac.)
DHW (100 yr) = 19.25	
DHW (25 yr) = 18.91	
DHW (5 yr) = 18.02	
DHW (3 yr) = 17.78	

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Site Development for:

New Berlin Gym

3549 New Berlin Rd
Jacksonville, Florida 32226

Project Number
22-0280

Sheet Name
Overall Grading & Drainage Plan

Sheet Number
C5.0

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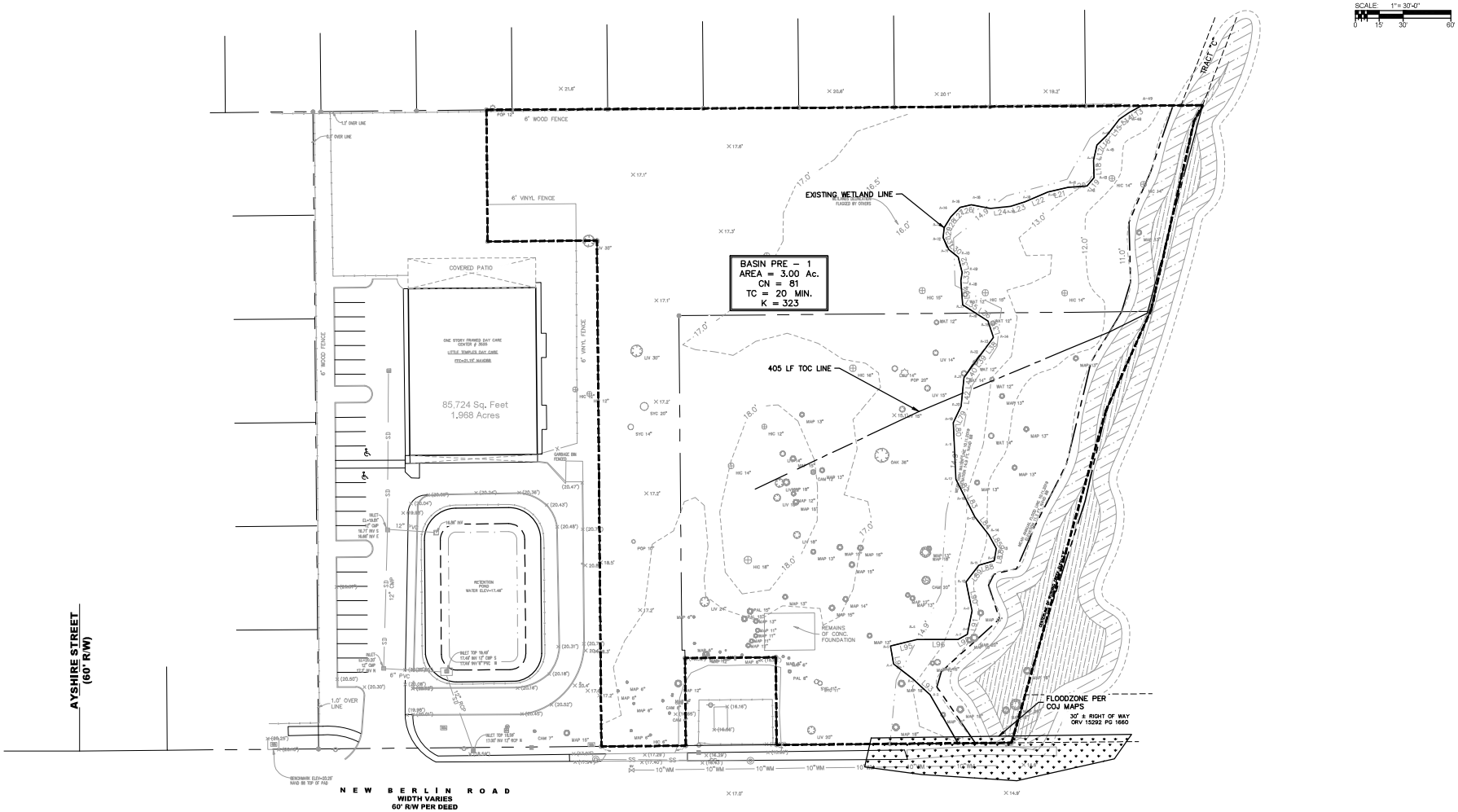

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Site Development for:

New Berlin Gym

3549 New Berlin Rd
Jacksonville, Florida 32226

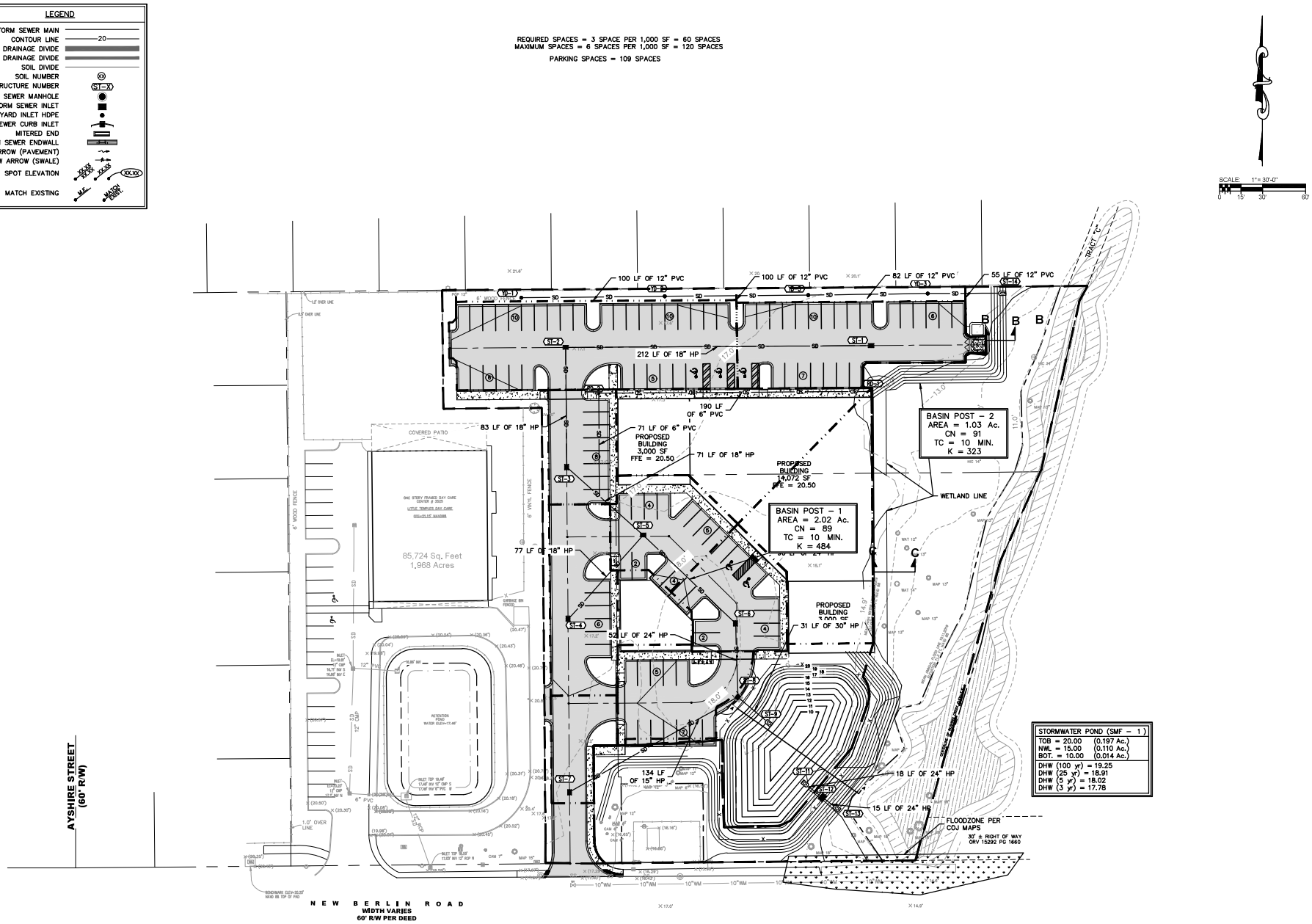
Project Number
22-0280

Sheet Name

Pre Development Drainage Map

Sheet Number

C6.0



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Site Development for:

New Berlin Gym

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Jacksonville, Florida 32226

Project Number
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Sheet Name
Post Development Drainage Map

Sheet Number
C6.1

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LEGEND

SILT FENCE

INLET PROTECTION

CONSTRUCTION ENTRANCE

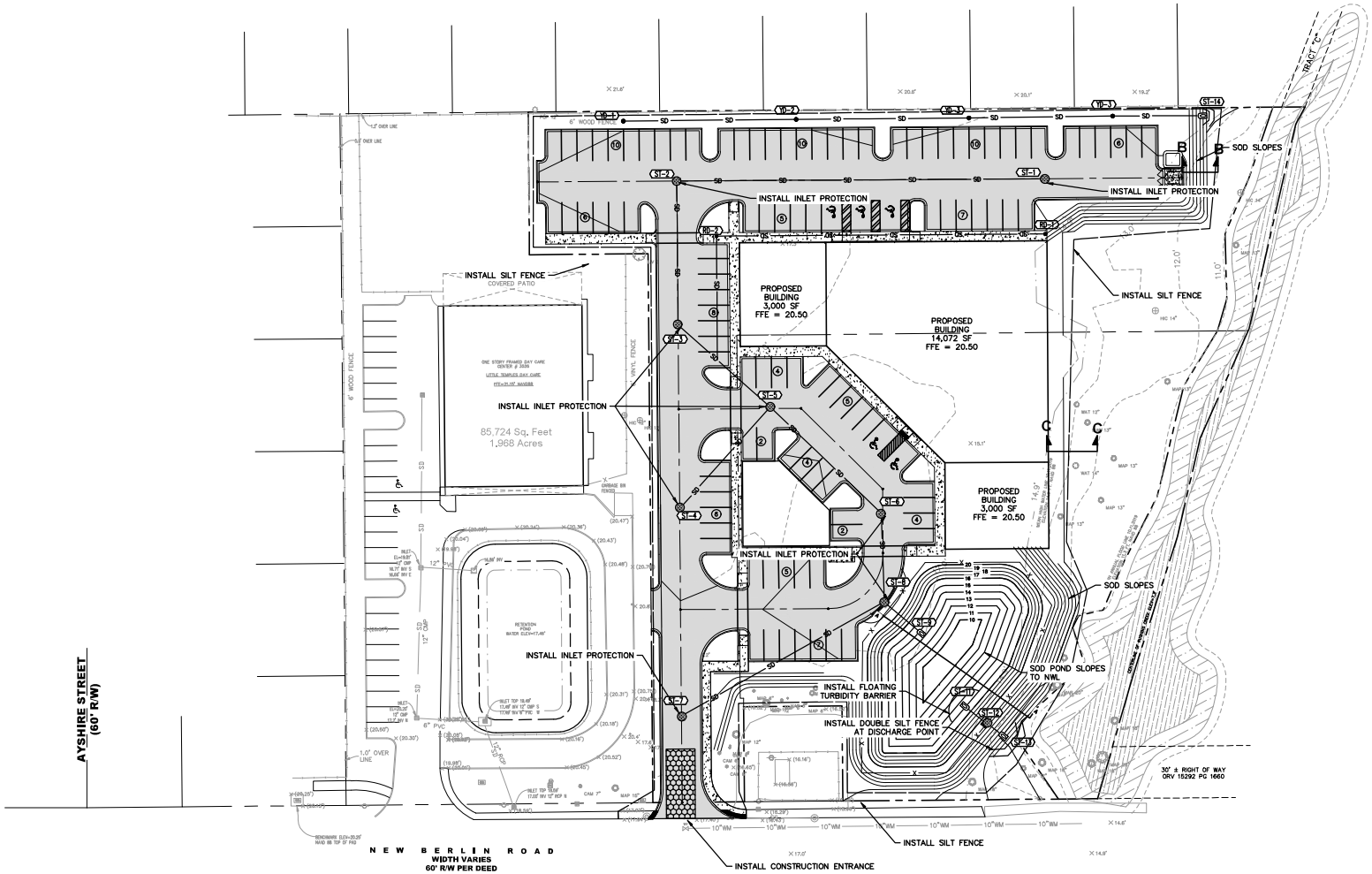
SYNTHETIC STRAW BALE PROTECTION

REQUIRED SPACES = 3 SPACE PER 1,000 SF = 60 SPACES
MAXIMUM SPACES = 6 SPACES PER 1,000 SF = 120 SPACES

PARKING SPACES = 109 SPACES

SCALE: 1"= 30'-0"

0 15' 30' 60'



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Site Development for:

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3549 New Berlin Rd
Jacksonville, Florida 32226

Project Number
22-0280

Sheet Name

Overall Sediment & Erosion Control Plan

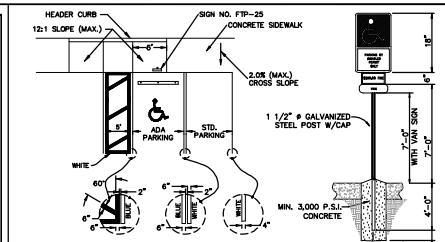
Sheet Number

C7.0

LOCATION & TYPE	MATERIAL DESCRIPTION	LIFT THICKNESS	TEST METHOD	COMPACTION	MOISTURE CONTENT
BUILDING SUBGRADE (5' BEYOND PERIMETER)	EXISTING SANDY SOILS OR COMPACTED FILL CONSISTING OF NON-PLASTIC, INORGANIC, GRANULAR SOIL CONTAINING LESS THAN 10% MATERIAL PASSING THE No. 200 MESH SIEVE	12"	MODIFIED PROCTOR	95%	N/A
PAVEMENT SUBGRADE TO A DEPTH OF 30" BELOW BASE (5' BEYOND PERIMETER)	EXISTING SANDY SOILS OR COMPACTED FILL CONSISTING OF NON-PLASTIC, INORGANIC, GRANULAR SOIL CONTAINING LESS THAN 10% MATERIAL PASSING THE No. 200 MESH SIEVE	12"	MODIFIED PROCTOR	98%	N/A
LIMEROCK BASE	FDOT LIMEROCK, LBR = 100	6"	MODIFIED PROCTOR	100%	N/A
PAVEMENT SUBBASE	EXISTING SANDY SOILS OR COMPACTED FILL CONSISTING OF NON-PLASTIC, INORGANIC, GRANULAR SOIL, LBR = 40	6"	MODIFIED PROCTOR	98%	N/A
LANDSCAPE AREAS	EXISTING ON-SITE SOILS	12"	MODIFIED PROCTOR	90%	N/A
EXISTING GROUND SURFACES TO RECEIVE FILL IN BUILDING AND PAVEMENT AREAS	EXISTING SANDY SOILS	N/A	PROOF ROLL AS DESCRIBED BELOW	N/A	N/A

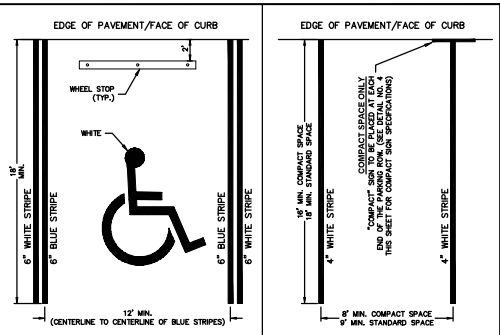
PROOF ROLLING TO BE ACCOMPLISHED UNDER THE DIRECTION OF THE ENGINEER.

1 SPECIFICATIONS FOR SUBGRADE, SUBBASE AND BASE MATERIALS (CD1.0)



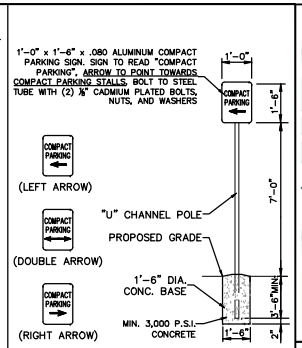
ADA PARKING NOTES:
1. DIMENSIONS ARE TO THE CENTERLINE OF MARKINGS.
2. ALL HANDICAPPED PARKING SPACES MUST BE SIGNED AND MARKED PER STANDARDS ESTABLISHED BY THE AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES (ADAAG).
3. PARKING SPACES AND ACCESS ISLES SHALL BE LEVEL WITH SURFACE SLOPES NOT EXCEEDING 1:50 (2%) IN ALL DIRECTIONS.
4. ADA PARKING SPACES SHALL BE DESIGNATED AS RESERVED BY A PAINTED SYMBOL OF ACCESSIBILITY AND A SIGN SHOWING THE ACCESSIBLE SYMBOL.
5. ADA SIGNS ARE TO BE LOCATED DIRECTLY IN FRONT OF AN ACCESSIBLE PARKING SPACE AND MOUNTED, EITHER ON A POLE OR A WALL, A MINIMUM OF SEVEN (7) FEET ABOVE THE PARKING SURFACE'S GRADE.
6. SIDEWALK RAMPS FRONTING AN ADA ACCESS ISLE SHALL HAVE DETECTABLE WARNINGS COMPLYING WITH ADAAG 4.29.2.
7. HANDICAPPED PARKING SIGN (FTP-25) SHALL CONFORM TO F.D.O.T. DESIGN SPECIFICATIONS.
8. ALL SIGNS SHALL BE BOLTED TO POST.

2 HANDICAP PARKING SPACE (CD1.0)



NOTE:
REFER TO PLAN SHEET(S) FOR ACTUAL PARKING SPACE LAYOUT.

3 PARKING SPACE (CD1.0)

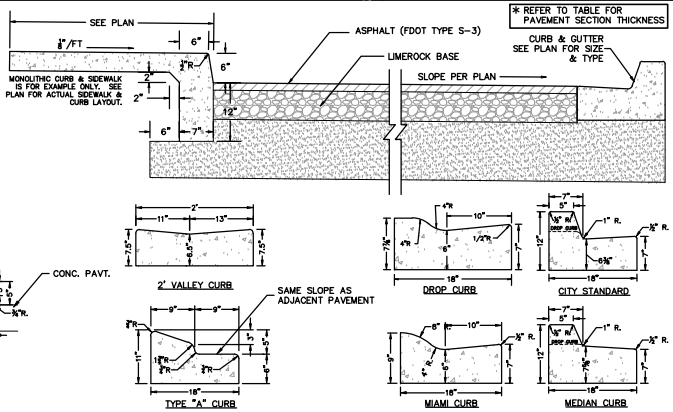


4 COMPACT SIGN (CD1.0)

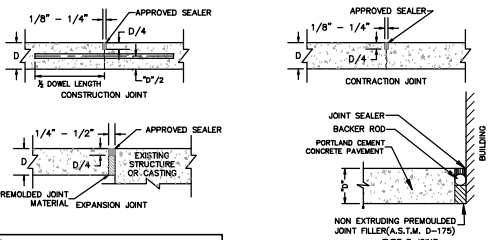
PAVEMENT SECTION SHOWN IS FOR GENERAL INTERFACE CONDITIONS. ACTUAL LAYOUT, SIZES & CURB TYPE MAY VARY. SEE PLAN FOR SPECIFIC DETAILS.

NOTE:
1. ALL DISTURBED AREAS SHALL BE SEEDED & MULCHED. ALL AREAS WHERE SOD HAS BEEN REMOVED SHALL BE RESODDED.
2. ALL ASPHALTIC CONCRETE SHALL MEET THE REQUIREMENTS OF SECTION 331 AND/OR SECTION 333, FDOT STANDARD SPECIFICATIONS. LATEST EDITION.

SECTION	ASPHALT	LIMEROCK BASE
STANDARD DUTY	1.5"	6"
HEAVY DUTY (INCL. DRIVEWAY APRON)	2"	8"



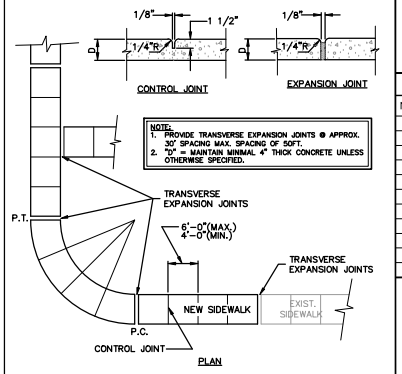
5 SIDEWALK, ASPHALT AND CURB SECTION (CD1.0)



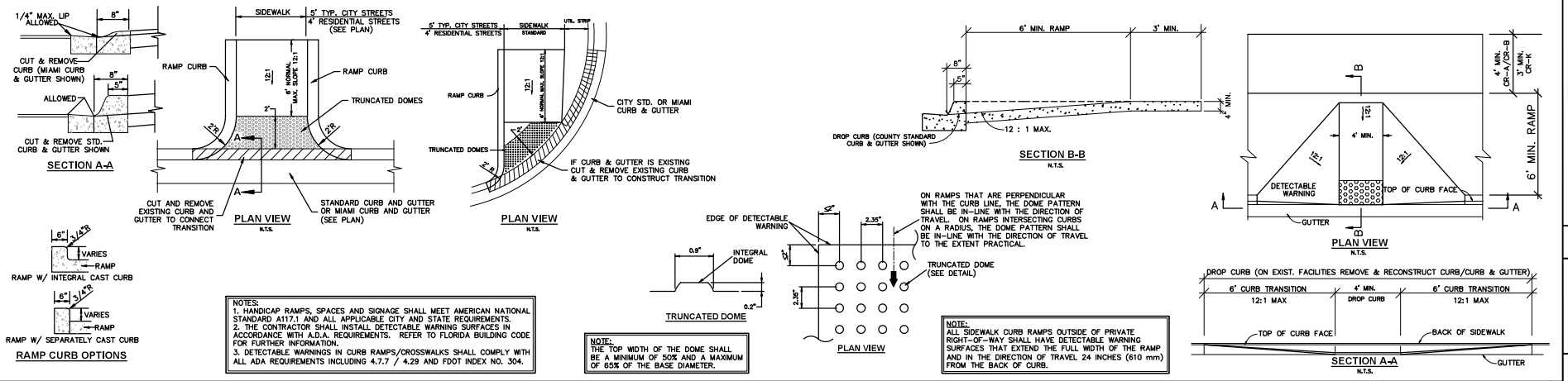
NOTES:
1. MINIMUM 28-DAY COMPRESSIVE STRENGTH = 4,000 PSI
2. MAXIMUM SLUMP = 4 INCHES
3. ENTRAINED AIR CONTENT = 4 TO 7%
4. THICKNESS, d AS SHOWN ON SITE PLAN
5. MAXIMUM JOINT SPACING = LAYOUT AS SHOWN ON SITE PLAN
6. JOINT TYPE AS INDICATED ON SITE PLAN
7. JOINTS SHALL BE CUT AS SOON AS CONCRETE HAS HARDENED TO THE DEGREE THAT EXCESSIVE RAVELING WILL NOT OCCUR AND BEFORE UNCONTROLLED SHRINKAGE CRACKING BEGINS
8. LIGHT BROOM FINISH, TRANSVERSE TO DIRECTION OF TRAVEL
9. MATERIALS, QUALITY ASSURANCE, PLACEMENT AND CURING SHALL CONFORM TO CITY STANDARD SPECIFICATIONS FOR CITY OF JACKSONVILLE FLORIDA SECTION 130 PORTLAND CEMENT CONCRETE AND ACI 330.1-94 STANDARD SPECIFICATION FOR PLAIN CONCRETE PARKING LOTS

DOWEL SIZE AND SPACING REQUIREMENTS		
"D"	CONSTRUCTION JOINTS (TYPE D)	
SLAB DEPTH (IN.)	DOWEL DIMENSIONS AND SPACING	
	ROUND (SEE NOTE 9)	
5 TO 7	3/4"x14" @ 18" OC	
>7 TO 9	1"x16" @ 18" OC	
>9 TO 12	1-1/4"x18" @ 18" OC	

6 CONCRETE PAVEMENT SECTION (CD1.0)



7 TYPICAL SIDEWALK DETAILS (CD1.0)



NOTES:
1. HANDICAP RAMPS, SPACES AND SIGNAGE SHALL MEET AMERICAN NATIONAL STANDARD A117.1 AND ALL APPLICABLE CITY AND STATE REQUIREMENTS.
2. THE CONTRACTOR SHALL INSTALL DETECTABLE WARNING SURFACES IN ACCORDANCE WITH A.D.A. REQUIREMENTS. REFER TO FLORIDA BUILDING CODE FOR FURTHER INFORMATION.
3. DETECTABLE WARNINGS IN CURB RAMPS/CROSSWALKS SHALL COMPLY WITH ALL ADA REQUIREMENTS INCLUDING 4.7.7 / 4.29 AND FDOT INDEX NO. 304.

NOTE:
THE TOP WIDTH OF THE DOME SHALL BE A MINIMUM OF 50% AND A MAXIMUM OF 65% OF THE BASE DIAMETER.

NOTE:
ALL SIDEWALK CURB RAMPS OUTSIDE OF PRIVATE RIGHT-OF-WAY SHALL HAVE DETECTABLE WARNING SURFACES THAT EXTEND THE FULL WIDTH OF THE RAMP AND IN THE DIRECTION OF TRAVEL 24 INCHES (610 mm) FROM THE BACK OF CURB.

8 CURB CUT/HANDICAP RAMPS (CD1.0)

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Site Development for:

New Berlin Gym

3549 New Berlin Rd.
Jacksonville, Florida 32226

Project Number
22-0280

Sheet Name
Site Details

Sheet Number
CD1.0

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Bike racks, lockers, benches and architectural site furnishings since 1980.

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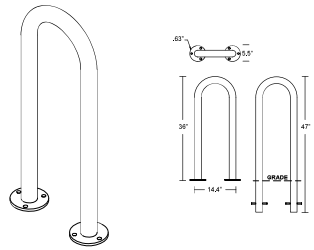
THE RAMBLER

Our top-selling range, the Rambler is one of our most elegant and flexible racks. We can custom build it to your specs in a variety of lengths.



CONSTRUCTION/MATERIAL

- ☐ 2" Sch. 40 Round Steel Pipe (shown)
- ☐ 2" × 2" Square Steel Tubing (Pipecutter Proof)
- ☐ 5/8" x 2 1/2" Steel Flat Bar (Pipecutter Proof)
- – Steel Flanges (Varies)

DIMENSIONS

- – 14.4" Length
- – 5.5" Width
- – 36" Height

MOUNTING OPTIONS

- ☐ Flange Mount (Shown) (6) .63" Mounting Holes
- ☐ In-Ground 11" Leg Extensions

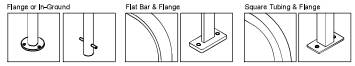
FINISH OPTIONS

- ☐ T304 Stainless Steel #4 Satin Finish
- ☐ Hot Dipped Galvanized
- ☐ Powder Coating #
- ☐ Thermoplastic Coating #

ADDITIONAL OPTIONS

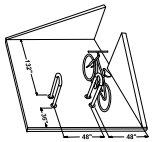
- ☐ Flange Cover (available at additional cost on round pipe only)

Flange or In-Ground | Flat Bar & Flange | Square Tubing & Flange



RECOMMENDED LAYOUT

NOTES:
"Bike" is 70"
Minimum Spacing
(#) Recommended Spacing



CONTRACTOR:

JOB:

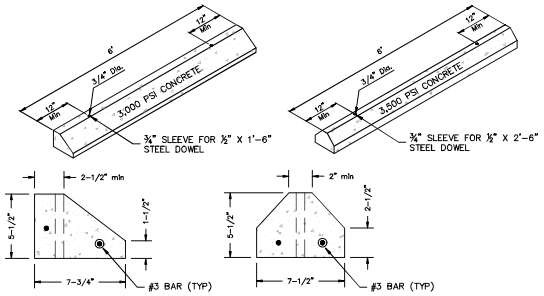
NOTES:

Manufactured in the Pacific Northwest.

NOTE:
1. BICYCLE RACK MANUFACTURER TO BE HUNTCO OR EQUIVALENT. RACK SPECIFICATIONS TO MATCH AT A MINIMAL WHAT IS SHOWN HERE IN THE DETAIL. EACH RACK HOLDS (2) BICYCLES MAXIMUM.
2. SEE PLAN SHEET FOR RACK LOCATION, LAYOUT, AND NUMBER OF BICYCLES REQUIRED/PROVIDED.

BICYCLE RACK

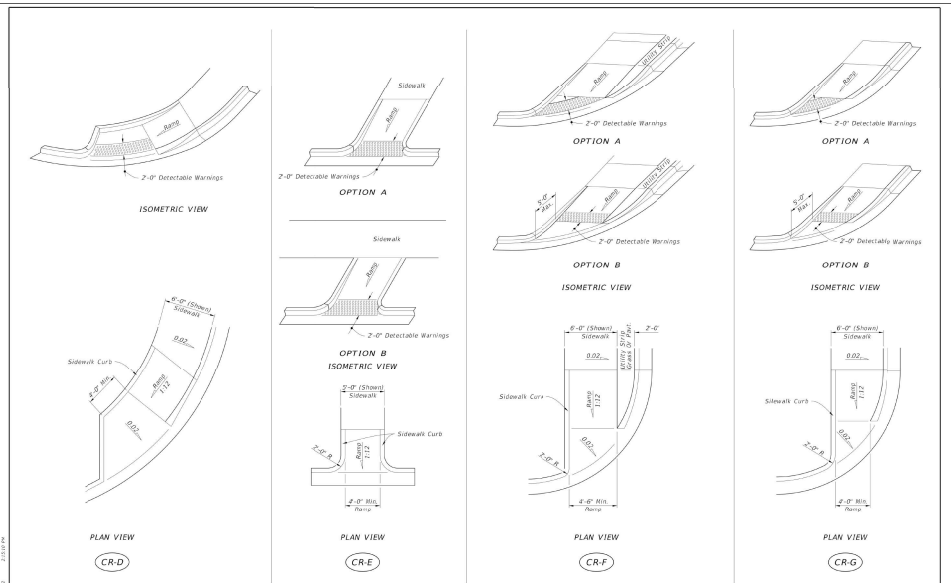
1 CD1.1



NOTE:
CONCRETE TO BE (MIN.) 3,000 P.S.I., WITH FIBER MESH REINFORCING.

PRECAST CONCRETE WHEEL STOP

2 CD1.1



SIDEWALK CURB RAMPS CR-D, CR-E, CR-F & CR-G

LAST REVISION	DESCRIPTION:				
11/01/21		FY 2023-24 STANDARD PLANS	DETECTABLE WARNINGS AND SIDEWALK CURB RAMPS	INDEX 522-002	SHEET 4 of 7

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Site Development for:

New Berlin Gym

3549 New Berlin Rd
Jacksonville, Florida 32226

Project Number
22-0280

Sheet Name
Site Details

Sheet Number
CD1.01

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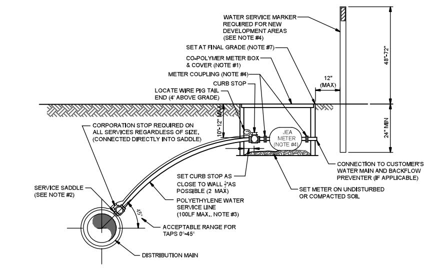
WATER MAIN AND NON-WATER MAIN SEPARATION REQUIREMENTS - NOTES

1. IT IS REQUIRED THAT "WATER MAINS" BE INSTALLED, CLEANED, DISINFECTED AND HAVE A SATISFACTORY BACTERIOLOGICAL SURVEY PERFORMED IN ACCORDANCE WITH THE LATEST APPLICABLE AWWA STANDARDS, CHAPTER 62-555, F.A.C. AND LATEST JEA WATER AND SEWER STANDARDS. FOR THE PURPOSE OF THIS SECTION, THE PHRASE "WATER MAINS" SHALL MEAN MAINS, INCLUDING TREATMENT PLANT "PROCESS PIPING, CONVEYING EITHER RAW, PARTIALLY TREATED, OR FINISHED DRINKING WATER; FIRE HYDRANT LEADS; AND SERVICE LINES THAT HAVE AN INSIDE DIAMETER OF THREE (3) INCHES OR GREATER. IN ADDITION, THE PHRASE "RECLAIMED WATER" REFERS TO THE WATER REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C.
2. NEW OR RELOCATED, UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST THREE (3) FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED STORM SEWER, STORMWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER.
3. NEW OR RELOCATED, UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST SIX (6) FEET, AND PREFERABLY TEN (10) FEET, BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED GRAVITY OR PRESSURE-TYPE SANITARY SEWER, WASTEWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER. THE MINIMUM HORIZONTAL SEPARATION DISTANCE BETWEEN WATER MAINS AND GRAVITY-TYPE SANITARY SEWERS MAY BE REDUCED TO THREE (3) FEET WHERE THE BOTTOM OF THE WATER MAIN IS LAID AT LEAST SIX (6) INCHES ABOVE THE TOP OF THE SEWER (SPECIAL CASE).
4. NEW OR RELOCATED, UNDERGROUND WATER MAINS CROSSING ANY EXISTING OR PROPOSED GRAVITY OR VACUUM-TYPE SANITARY SEWER OR STORM SEWER SHALL BE LAID SO THE OUTSIDE OF THE WATER MAIN IS AT LEAST SIX (6) INCHES, AND PREFERABLE TWELVE (12) INCHES, ABOVE OR AT LEAST TWELVE (12) INCHES BELOW THE OUTSIDE OF THE OTHER PIPELINE. HOWEVER, IT IS PREFERABLE TO LAY THE WATER MAIN ABOVE THE OTHER PIPELINE.
5. NEW OR RELOCATED, UNDERGROUND WATER MAINS CROSSING ANY EXISTING OR PROPOSED PRESSURE-TYPE SANITARY SEWER, WASTEWATER OR STORMWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER SHALL BE LAID SO THE OUTSIDE OF THE WATER MAIN IS A LEAST TWELVE (12) INCHES ABOVE OR BELOW THE OUTSIDE OF THE OTHER PIPELINE. HOWEVER, IT IS PREFERABLE TO LAY THE WATER MAIN ABOVE THE OTHER PIPELINE.
6. AT THE UTILITY CROSSINGS DESCRIBED IN NOTES 4 AND 5 ABOVE, ONE FULL LENGTH OF WATER MAIN PIPE SHALL BE CENTERED ABOVE OR BELOW THE OTHER PIPELINE SO THE WATER MAIN JOINTS WILL BE AS FAR AS POSSIBLE FROM THE OTHER PIPELINE. ALTERNATIVELY, AT SUCH CROSSINGS, THE PIPES SHALL BE ARRANGED SO THAT ALL WATER MAIN JOINTS ARE AT LEAST THREE (3) FEET FROM ALL JOINTS IN VACUUM-TYPE SANITARY SEWERS, STORM SEWERS, STORMWATER FORCE MAINS, OR PIPELINES CONVEYING RECLAIMED WATER, AND AT LEAST SIX (6) FEET FROM ALL JOINTS IN GRAVITY OR PRESSURE-TYPE SANITARY SEWERS, WASTEWATER FORCE MAINS, OR PIPELINE CONVEYING RECLAIMED WATER.
7. NEW OR RELOCATED FIRE HYDRANTS SHALL BE LOCATED SO THAT THE HYDRANTS ARE AT LEAST THREE (3) FEET FROM ANY EXISTING OR PROPOSED STORM SEWER, STORMWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER; AT LEAST THREE (3) FEET, AND PREFERABLY TEN (10) FEET, FROM ANY EXISTING OR PROPOSED VACUUM-TYPE SANITARY SEWER; AT LEAST SIX (6) FEET, AND PREFERABLY TEN (10) FEET, FROM ANY EXISTING OR PROPOSED GRAVITY OR PRESSURE-TYPE SANITARY SEWER OR WASTEWATER FORCE MAIN.
8. WHERE AN UNDERGROUND WATER MAIN IS BEING LAID LESS THAN THE REQUIRED MINIMUM HORIZONTAL DISTANCE FROM ANOTHER PIPELINE AND WHERE AN UNDERGROUND WATER MAIN IS CROSSING ANOTHER PIPELINE AND JOINTS IN THE WATER MAIN ARE BEING LOCATED LESS THAN THE REQUIRED MINIMUM DISTANCE FROM JOINTS IN THE OTHER PIPELINE, THE CONTRACTOR SHALL CONSULT THE DESIGN ENGINEER TO OBTAIN APPROVAL OF ANY ALTERNATIVE CONSTRUCTION METHODS PRIOR TO CONSTRUCTION.

NOTES ON UTILITY SEPARATION REQUIREMENTS

JANUARY 2023 PLATE W-11

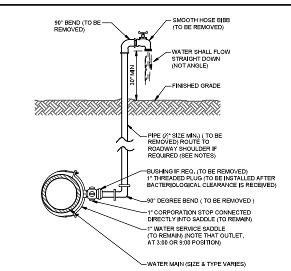


NOTES

1. SEE PLATE W-1 FOR METER LOCATION REQUIREMENTS.
2. SINGLE BAND SADDLES SHALL BE UTILIZED ON NEW 1" WATER SERVICES WHICH ARE INSTALLED ON A DRY 10" SIZE OR SMALLER WATER MAIN (NEW WATER MAIN CONSTRUCTION). FOR WET TAPS OR WATER MAINS 12" SIZE AND LARGER, A DOUBLE BAND SADDLE IS REQUIRED. BRASS SADDLES MAY BE UTILIZED ON NEW 1 INCH AND SMALLER WATER SERVICES WHICH ARE INSTALLED ON A DRY 10 INCH OR SMALLER PVC WATER MAIN.
3. NO OPEN CUT UNDER ROADWAY PAVING ALLOWED UNLESS THE ROADWAY IS BEING RECONSTRUCTED OR IF DIRECTED OTHERWISE BY JEA. CONSTRUCT POLY LINE WITH 24" (MIN.) COVER UNDER ROADWAYS. THE POLY WATER SERVICE LINE SHALL BE SAME SIZE AS THE METER (1" MINIMUM) AND BE INSTALLED PERPENDICULAR TO THE MAIN AND NOT EXCEED 100LF UNLESS APPROVED OTHERWISE BY JEA.
4. INSTALL PVC PLUG IN ALL CURB STOPS IF WATER SERVICE IS "NOT IN USE" (I.E. IF NO METER IS INSTALLED). WATER SERVICES SERVING VACANT LOTS (SERVICE NOT IN USE) SHALL INCLUDE A "W" CUT INTO THE CURB (CLOSEST TO THE METER BOX), AND PAINTED BLUE (PAINTED PURPLE FOR RECLAIMED WATER). IN ADDITION, FOR NEW DEVELOPMENT AREAS WHERE THE WATER SERVICE IS "NOT IN USE", A LANDSCAPE TIMBER OR 3x3 MIN. P.T. POST (TOP PAINTED BLUE OR PURPLE FOR RECLAIMED WATER). THE REMOVAL OR TRANSFER OF A WATER SERVICE SHALL INCLUDE BRASS METER COUPLINGS (HEX ON BARREL TYPE).
5. NO 2" AND SMALLER WATER SERVICE TAPS PERMITTED ON WATER MAINS WHICH ARE 20" AND LARGER SIZE.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR OR REPLACEMENT OF THE METER OR ELECTRONIC DEVICES IF DAMAGED BY THE CONTRACTOR DURING THE CONSTRUCTION PERIOD.
7. METER BOX AND TOP SHALL BE CLEAR OF ALL DEBRIS TO ALLOW FULL ACCESS TO BOX (i.e. NO DIRT, TRASH OR OTHER DEBRIS PLACED ON TOP OF BOX).
8. LOCATE WIRING REQUIRED ON ALL SERVICES 10' OR GREATER IN LENGTH, SEE PLATE W-44.

WATER SERVICE DETAIL- 2" AND SMALLER METER

JANUARY 2023 PLATE W-2



NOTES

1. LOCATION OF SAMPLE POINT BIBB SHALL NOT BE WITHIN THE ROADWAY BUT ROUTED TO THE ROADWAY SHOULDERS (NON-TRAFFIC AREAS).
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL TEMPORARY PIPING & FITTINGS (AS NOTED), AFTER BACTERIOLOGICAL CLEARANCE IS RECEIVED.
3. PIPE AND FITTINGS SHALL BE PVC (SCH. 40) OR GALV. MATERIAL.
4. THE USE OF THE ABOVE CONSTRUCTION FOR A TEMPORARY SAMPLE POINT SHALL BE LIMITED TO AREAS WHERE A SAMPLE TAP BY ALTERNATIVE METHODS (SEE W-24) IS NOT FEASIBLE OR IF DIRECTED OTHERWISE BY JEA.
5. THE CONTRACTOR SHALL COMPLY WITH ALL JEA RULES AND POLICIES AS AS OUTLINED BY JEA'S ENVIRONMENTAL RESPONSE COORDINATOR (ERC) AND OTHER ASSOCIATED JEA STANDARDS.

TEMPORARY SAMPLE TAP

JANUARY 2023 PLATE W-25

HORIZONTAL & VERTICAL SEPARATION REQUIREMENTS

CONFLICTING UTILITY	PROPOSED UTILITY: POTABLE WATER			WASTEWATER GRAVITY AND FORCE MAIN			RECLAIMED WATER			VACUUM SEWERS		
	HORIZ.	VERT.	JOINT SPACING*	HORIZ.	VERT.	JOINT SPACING*	HORIZ.	VERT.	JOINT SPACING*	HORIZ.	VERT.	JOINT SPACING*
POTABLE WATER	3' NOTE 1	12"	3' NOTE 2	6' to 10'	12" NOTE 5	6' NOTE 2	3'	12"	6' NOTE 2	3' to 10'	12"	3' NOTE 2
RECLAIMED WATER	3'	12"	6' NOTE 2	3' NOTE 1	12"	3' NOTE 2	3'	12"	6' NOTE 2	3' NOTE 1	12"	3' NOTE 2
WASTEWATER (GRAVITY AND FORCE MAIN)	6' to 10'	12"	6' NOTE 2	3' NOTE 1	12"	6"	3' NOTE 1	12"	3' NOTE 2	3' NOTE 1	12"	3' NOTE 2
VACUUM SEWERS	3' to 10'	12"	3' NOTE 2	3' NOTE 1	12"	6"	3' NOTE 1	12"	3' NOTE 2	3' NOTE 1	12"	3' NOTE 2
RIGHT OF WAYS	3' NOTE 1	N/A	N/A	3' NOTE 1	N/A	N/A	3' NOTE 1	N/A	N/A	3' NOTE 1	N/A	N/A
PERMANENT STRUCTURES (BUILDINGS, SIGNS, POLES, ETC.)	SEE NOTE 7	N/A	N/A	SEE NOTE 7	N/A	N/A	SEE NOTE 7	N/A	N/A	SEE NOTE 7	N/A	N/A
STORM SEWERS	3' NOTE 1	12"	3' NOTE 2	3' NOTE 1	12"	3' NOTE 2	3' NOTE 1	12"	3' NOTE 2	3' NOTE 1	12"	3' NOTE 2
GAS	3' NOTE 1	12"	3' NOTE 2	3' NOTE 1	12"	3' NOTE 2	3' NOTE 1	12"	3' NOTE 2	3' NOTE 1	12"	3' NOTE 2
TREES	3'-6' NOTE 6	N/A	N/A	3'-6' NOTE 6	N/A	N/A	3'-6' NOTE 6	N/A	N/A	3'-6' NOTE 6	N/A	N/A
ALL OTHER UTILITIES	3' NOTE 1	12"	3' NOTE 2	3' NOTE 1	12"	3' NOTE 2	3' NOTE 1	12"	3' NOTE 2	3' NOTE 1	12"	3' NOTE 2

NOTES:

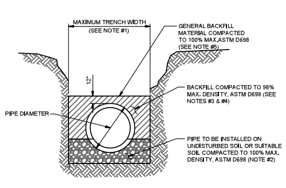
1. THIS SEPARATION REQUIREMENT IS TO PROVIDE ACCESSIBILITY FOR CONSTRUCTION AND MAINTENANCE. THREE FEET OF HORIZONTAL SEPARATION IS THE MINIMUM FOR PIPES WITH THREE FEET OF COVER. FOR PIPES INSTALLED AT GREATER DEPTH, PROVIDE AN ADDITIONAL FOOT OF SEPARATION FOR EACH ADDITIONAL FOOT OF DEPTH.
2. THE MINIMUM JOINT SPACING REQUIRED FROM CROSSING FROM OTHER UTILITIES WHILE STILL MAINTAINING MINIMUM VERTICAL SEPARATION.
3. DISTANCES GIVEN ARE FROM OUTSIDE OF PIPE TO OUTSIDE OF PIPE.
4. NO WATER PIPE SHALL PASS THROUGH OR COME INTO CONTACT WITH ANY PART OF SANITARY OR STORM WATER MANHOLE OR STRUCTURES.
5. WATER MAIN SHOULD CROSS ABOVE OTHER PIPES WHENEVER POSSIBLE. WHEN WATER MAIN MUST BE BELOW OTHER UTILITY PIPING, THE MINIMUM SEPARATION SHALL BE 12 INCHES.
6. REFER TO POTABLE WATER PIPING- SECTION 350, III.4.11.
7. SEE SECTION 350, III.4.10 FOR MINIMUM SEPARATION REQUIREMENTS FROM PIPE TO STRUCTURES.

SEPARATION REQUIREMENTS FOR WATER, WASTEWATER AND RECLAIMED WATER MAINS

JANUARY 2023 PLATE W-10

NOTES

1. TRENCH SIDES SHALL BE APPROXIMATELY VERTICAL BETWEEN AN ELEVATION OF 1 FOOT ABOVE THE TOP OF THE PIPE AND THE CENTER LINE OF THE PIPE. OTHERWISE TRENCH SIDES SHALL BE AS VERTICAL AS POSSIBLE OR AS REQUIRED BY OSHA STANDARDS. REFER TO THE MEASUREMENT AND PAYMENT SECTION (SECTION #801, PARAGRAPH #4)) TO DETERMINE MAXIMUM PAYLINE WIDTHS.
2. BELL HOLE SHALL BE DUG TO PERMIT THE ENTIRE STRAIGHT BARREL OF THE PIPE TO REST ON THE UNDISTURBED TRENCH BOTTOM. BOULDERS OR LOOSE ROCKS LARGER THAN 3/4 INCH IN SIZE WILL NOT BE PERMITTED IN BACKFILL UP TO 1 FOOT ABOVE THE TOP OF THE PIPE.
3. BACK FILL MATERIAL UP TO A LEVEL OF 1 FOOT OVER THE PIPE SHALL CONSIST OF AASHTO CLASS A-3 SOIL (SUITABLE SOIL) AND SHALL EXCLUDE CLAY MATERIALS AND LOOSE ROCKS LARGER THAN 3/4 INCH SIZE.
4. BACKFILL MATERIAL UP TO A LEVEL 1 FOOT OVER THE TOP OF PIPE OR BOTTOM OF STRUCTURES SHALL BE PLACED IN 6 INCH COMPACTED THICKNESS LAYERS AND SHALL BE COMPACTED TO 100% OF IT'S MAXIMUM DENSITY AS DETERMINED BY THE LABORATORY MODIFIED PROCTOR TEST, ASTM D698.
5. SEE "EXCAVATION AND EARTHWORK" SECTION 408 FOR ADDITIONAL REQUIREMENTS AND EXCEPTIONS INCLUDING REMOVAL AND REPLACEMENT OF UNSUITABLE SOILS, DEWATERING, COMPACTION REQUIREMENTS AND DENSITY TESTING OF COMPACTED SOILS.



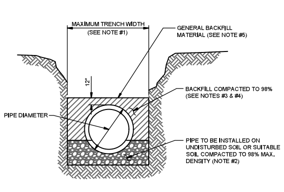
TYPICAL TRENCH

OPEN CUT TRENCH FOR PRESSURE PIPE

JANUARY 2023 IN STATE ROAD RIGHT -OF-WAY PLATE W-42A

NOTES

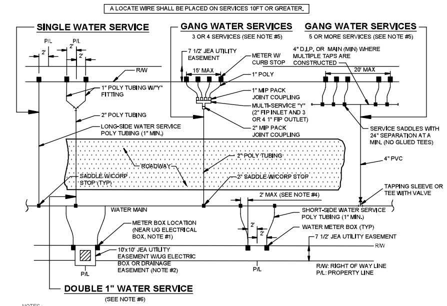
1. TRENCH SIDES SHALL BE APPROXIMATELY VERTICAL BETWEEN AN ELEVATION OF 1 FOOT ABOVE THE TOP OF THE PIPE AND THE CENTER LINE OF THE PIPE. OTHERWISE TRENCH SIDES SHALL BE AS VERTICAL AS POSSIBLE OR AS REQUIRED BY OSHA STANDARDS. REFER TO THE MEASUREMENT AND PAYMENT SECTION (SECTION #801, PARAGRAPH #4)) TO DETERMINE MAXIMUM PAYLINE WIDTHS.
2. BELL HOLE SHALL BE DUG TO PERMIT THE ENTIRE STRAIGHT BARREL OF THE PIPE TO REST ON THE UNDISTURBED TRENCH BOTTOM. BOULDERS OR LOOSE ROCKS LARGER THAN 3/4 INCH IN SIZE WILL NOT BE PERMITTED IN BACKFILL UP TO 1 FOOT ABOVE THE TOP OF THE PIPE.
3. BACK FILL MATERIAL UP TO A LEVEL OF 1 FOOT OVER THE PIPE SHALL CONSIST OF AASHTO CLASS A-3 SOIL (SUITABLE SOIL) AND SHALL EXCLUDE CLAY MATERIALS AND LOOSE ROCKS LARGER THAN 3/4 INCH SIZE.
4. BACKFILL MATERIAL UP TO A LEVEL 1 FOOT OVER THE TOP OF PIPE OR BOTTOM OF STRUCTURES SHALL BE PLACED IN 6 INCH COMPACTED THICKNESS LAYERS AND SHALL BE COMPACTED TO 98% OF IT'S MAXIMUM DENSITY AS DETERMINED BY THE LABORATORY MODIFIED PROCTOR TEST, ASTM D1557.
5. SEE "EXCAVATION AND EARTHWORK" SECTION 408 FOR ADDITIONAL REQUIREMENTS INCLUDING REMOVAL AND REPLACEMENT OF UNSUITABLE SOILS, DEWATERING, COMPACTION REQUIREMENTS AND DENSITY TESTING OF COMPACTED SOILS.



TYPICAL TRENCH

OPEN CUT TRENCH FOR PRESSURE PIPE

JANUARY 2023 IN CITY RIGHT -OF-WAY PLATE W-42

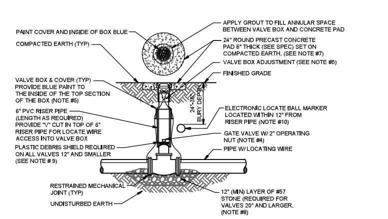


NOTES :

1. THE SKETCHES ABOVE INDICATE TYPICAL WATER SERVICE AND METER BOX LOCATIONS. ACTUAL LOCATIONS OF BOXES MAY VARY SLIGHTLY ACCORDING TO FIELD CONDITIONS ENCOUNTERED. TYPICALLY, THE METER BOX SHALL LOCATED AT THE R/W LINE BUT INSIDE THE 7 1/2' ELECTRIC EASEMENT.
2. UNLESS SPECIFIED OTHERWISE BY THE APPLICABLE COUNTY (NASSAU, CLAY OR ST. JOHNS COUNTY), THE METER BOX SHALL BE LOCATED IN THE JEA 7 1/2' UTILITY EASEMENT, AND TWO FEET INSIDE OF THE PROLONGATION OF ONE OF THE SIDE PROPERTY LINES. IF A CONFLICT EXISTS WITH OTHER UTILITIES, THE METER BOX MAY BE ADJUSTED TO FOUR FEET (MAX.) INSIDE PROPERTY LINES (IN LIEU OF TWO FEET). UNLESS APPROVED OTHERWISE BY JEA, THE WATER METER BOX SHALL BE LOCATED IN NON-TRAFFIC AREAS (NOT IN SIDEWALKS OR DRIVEWAYS). IF THE METER BOX IS APPROVED BY JEA TO BE LOCATED IN A DRIVEWAY OR SIDEWALK, THEN THE CONSTRUCTION SHALL MEET STANDARD DETAIL NUMBERS W-3&4, AT A MINIMUM (SEE W-3 AND W-4 FOR THE REQUIREMENTS OF SPECIAL ORDER POLYMER BOX AND TOP) . SET TOP OF BOX AT FINISHED GRADE. IF AN UNAPPROVED METER BOX IS IDENTIFIED BY JEA, THEN THE CONTRACTOR OR CUSTOMER SHALL BE RESPONSIBLE FOR THE COST OF RELOCATING ANY METER BOX WHICH IS LOCATED IN THE SIDEWALK OR DRIVEWAY OR THE COST TO PROVIDE THE CORRECT METER BOX. JEA SHALL APPROVE ALL DEVIATIONS TO THE ABOVE PRIOR TO CONSTRUCTION.
3. IF DRAINAGE OR OTHER EASEMENT LOCATED BETWEEN LOTS, METER BOXES SHALL BE LOCATED AT THE EASEMENT LINE BUT OUTSIDE THE EASEMENT AREA.
4. FOR SINGLE SERVICES, THE HORIZONTAL DISTANCE (PERPENDICULAR TO THE MAIN)BETWEEN THE SERVICES SADDLE AND THE METER BOX SHALL BE 2 FEET MAXIMUM. FOR DOUBLE 1" SERVICES, THE 2" POLY MAIN SHALL BE LOCATED CENTERED BETWEEN THE TWO METER BOXES. LOCATE WIRE IS REQUIRED ON ALL SERVICES 10' OR GREATER IN LENGTH. IF LOCATE WIRE IS REQUIRED, THE WIRE SHALL RUN FROM THE METER BOX (W/ PIG TAIL) TO THE MAIN (DEAD END SHALL BE TAPED WITH NO CONNECTION TO MAIN WIRE WITH THE LAST 24 INCHES STRIPED OF INSULATION/BARE WIRE AS GROUND). ALL EXCEPTIONS TO THIS REQUIREMENT MUST BE APPROVED BY JEA. THIS WILL ASSIST IN LOCATING EXISTING SERVICE LINES IN THE FUTURE.
5. GANG WATER SERVICES: FOR 3 OR 4 SERVICES IN ONE AREA, A DUCTICLE IRON PIPE (D.I.P.) WATER MAIN EXTENSION W/LOCATE WIRE MAY BE UTILIZED ON EITHER SHORT-SIDE OR LONG SIDE SERVICES WHERE SHOWN ON THE DRAWINGS. LOCATE WIRE SHALL EXTEND FROM ONE METER BOX TO CORP STOP AT WATER MAIN. FOR 5 OR MORE SERVICES IN ONE AREA, A WATER MAIN EXTENSION W/LOCATE WIRE MAY BE UTILIZED ON EITHER SHORT-SIDE OR LONG SIDE SERVICES WHERE SHOWN ON THE DRAWINGS (TAPS STAGGERED AND AT 2 FEET ON CENTER-MIN). FOR WATER SUPPLY HEADERS WHERE 5 OR MORE TAPS ARE CONSTRUCTED, THE HEADER PIPE SHALL BE 4" AT A MINIMUM. EXAMPLE: CONSTRUCT A 4" MAIN PVC CROSSING THE STREET FOR 5 RESIDENTIAL CUSTOMERS, UTILIZING 4" DIP, 4" PIPE, 4"X1" SADDLES AND 1" CORP STOPS (NO GLUED TEE FITTINGS). THE 4" OR LARGER D.I.P. WATER MAIN MUST BE SIZED AND DESIGNED BY THE P.E. ENGINEER.
6. DOUBLE 1" WATER SERVICES IS ALLOWED FOR SHORT SIDE OR LONG SIDE SERVICES AND WHERE SHOWN ON THE DRAWINGS.
7. A 1" IRRIGATION SERVICE MAYBE TAPPED INTO THE (1" MIN) DOMESTIC WATER SERVICE LINE (WHICH SERVES THE SAME CUSTOMER) UTILIZING A 1" BRONZE "Y" FITTING. (IN AREAS WHERE NO RECLAIMED WATER IS AVAILABLE).
8. No 2" AND SMALLER WATER SERVICE TAPS PERMITTED ON WATER MAINS WHICH ARE 20" AND LARGER SIZE.
9. RECLAIMED WATER METER BOXES OR SERVICES SHALL BE CONSTRUCTED SIMILAR TO THE ABOVE AND SHALL BE LOCATED, AT A MIN. OF 10' FROM THE POTABLE WATER SERVICE, AND/OR BOX AND NOT ALLOWED IN CONCRETE OR ASPHALT UNLESS APPROVED OTHERWISE BY JEA.
10. SERVICE SIZE SHALL BE SAME AS THE METER SIZE.

WATER OR RECLAIM SERVICE INSTALLATIONS 2" AND SMALLER METER

JANUARY 2023 PLATE W-1

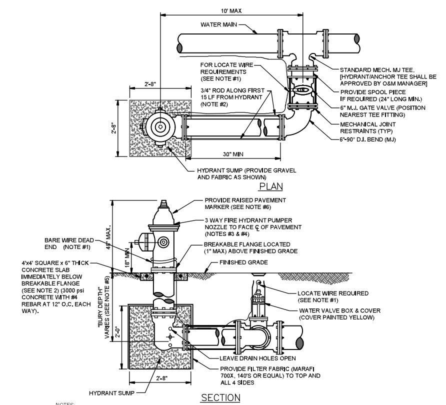


NOTES:

1. FOR UNPAVED LOCATIONS, A PRECAST CONCRETE VALVE PAD SHALL BE PROVIDED AND INSTALLED FLUSH WITH GRADE. CONCRETE PAD IS NOT REQUIRED FOR VALVE LOCATED IN THE ROADWAY, UNLESS SHOWN OR NOTED OTHERWISE.
2. LOCATING WIRE IS REQUIRED ON ALL PRESSURE PIPING (SEE DETAIL W-44).
3. A "V" CUT SHALL BE CARVED IN THE CURB CLOSEST/ADJACENT/(ASPHALT IF NO CURB) TO ALL BELOW GRADE VALVES. THE "V" CUT IS TO BE PAINTED BLUE WATER/PURPLE RECLAIMED.
4. IN PAVED AREAS, INSTALL VALVE AT A DEPTH TO ALLOW A 12" MIN. DISTANCE BETWEEN THE VALVE COVER PLATE AND THE TOP OF THE VALVE OPERATING NUT. OUTSIDE OF PAVED AREAS (GRASS), INSTALL VALVE AT A DEPTH TO ALLOW A 6" MINIMUM DISTANCE BETWEEN THE VALVE COVER AND THE TOP OF THE VALVE OPERATING NUT. OPERATING NUT/STEM EXTENSION SHALL BE PROVIDED (WHERE APPLICABLE) SO THAT THE OPERATING NUT WILL BE NO MORE THAN 30 INCHES BELOW FINISHED GRADE.
5. FOR NEW CONSTRUCTION, THE VALVE BOX SHALL BE ADJUSTED TO MIDRANGE TO ALLOW FOR FUTURE BOX ADJUSTMENTS. ROUTE LOCATE WIRES THRU A "V" CUT IN THE TOP OF THE 6" PVC RISER PIPE FOR LOCATE WIRE ACCESS INTO VALVE BOX. THE LOCATE WIRES WITH A 24" LONG PIG-TAIL AT THE TOP SHALL BE CONNECTED TOGETHER WITH A WIRE NUT.
6. BRASS IDENTIFICATION TAG INDICATING "WATER", VALVE SIZE, DIRECTION AND TURNS TO OPEN & VALVE TYPE. PROVIDE A ¼" HOLE IN BRASS TAG AND ATTACH TAG (TWIST WIRE AROUND TAG) TO THE END OF THE LOCATE WIRE. TAGS ARE NOT REQUIRED ON VALVES INSTALLED ON FIRE HYDRANT BRANCH LINES.
7. IN LIEU OF PRECAST CONCRETE PAD, A 6" THICK X 24" (ROUND OR SQUARE) POURED CONCRETE PAD W/2 - #4 REBAR AROUND PERIMETER, MAY BE USED.
8. GRAVEL SHALL BE PROVIDED UNDER ALL VALVES 20" AND LARGER. THE MINIMUM VERTICAL LIMIT OF GRAVEL IS 12" UNDER THE VALVE UP TO ⅓ THE OVERALL HEIGHT OF THE VALVE.
9. FOR VALVES 12 INCH AND SMALLER, PROVIDE A WHITE OR BLACK PLASTIC DEBRIS SHIELD WHICH INSTALLS BELOW THE OPERATING NUT. THIS SHIELD SHALL CENTER THE RISER PIPE BOX OVER THE OPERATING NUT AND MINIMIZE INFILTRATION. SHIELD SHALL BE BY AFC, BOXLOK OR APPROVED EQUAL.
10. ALL VALVES SHALL BE INSTALLED WITH AN ELECTRIC LOCATE MARKER. MARKER SHALL BE 4" DIA. COLOR CODED BALL MARKER (3M-1403XR FOR WATER AND 1408XR FOR RECLAIMED WATER).

WATER VALVE INSTALLATION DETAIL

JANUARY 2023 PLATE W-18

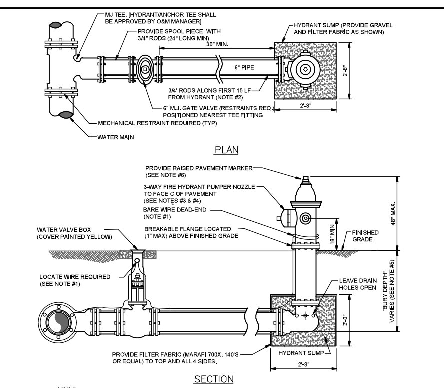


NOTES:

1. LOCATE WIRE SHALL BE ROUTED FROM THE VALVE TO THE HYDRANT AS SHOWN ABOVE LEAVING ENOUGH SLACK TO REACH 4' ABOVE FINAL GRADE. THE END OF THE WIRE SHALL BE SECURED TO THE PIPE MAIN. SEE SECTION 350, LOCATE WIRE INSTALLATION PARAGRAPH.
2. FIRE HYDRANTS SHALL BE INSTALLED BETWEEN BACK OF CURB AND FACE OF SIDEWALK. ALL HYDRANTS SHALL BE LOCATED NO LESS THAN THREE (3) FEET FROM THE EDGE OF PAVEMENT OR BACK OF CURB OF THE ADJACENT ROADWAY AND NO LESS THAN THREE (3) FEET FROM ANY PHYSICAL FEATURE WHICH MAY OBSTRUCT ACCESS OR VIEW OF ANY HYDRANT UNLESS OTHERWISE APPROVED BY THE JEA. THE MAXIMUM DISTANCE (BACK OF CURB) SHALL BE IN COMPLIANCE WITH LOCAL COUNTY FIRE DEPARTMENT RULES AND AS APPROVED BY JEA. FOR OTHER LOCATION LIMITATIONS SEE PLATES W-10 AND W-11. IF PIPING BETWEEN TEE AND HYDRANT IS LONGER THAN 80 LF, AN ADDITIONAL 6" GATE VALVE IS REQUIRED AT THE HYDRANT LOCATION (PROVIDE 30" SEPARATION). ALL PIPING, VALVES AND FITTINGS ALONG THE HYDRANT BRANCH MAIN WHICH IS WITHIN 15 LF OF THE HYDRANT SHALL BE RESTRAINED UTILIZING ONLY TWO 3/4" DIA (THREADED ENDS) STEEL RODS AND EYE BOLTS (NO JOINT RESTRAINT DEVICES REQUIRED). A SPLIT SERRATED RING WITH RESTRAINT EARS (EBAA 15 PF06 or EQUAL) MAYBE USED IN THIS ASSEMBLY. ALL OTHER JOINTS ALONG THE HYDRANT BRANCH MAIN OUTSIDE OF THE FIRST 15 LF SHALL INCLUDE JOINT RESTRAINTS.
3. OPERATION OF THE FIRE HYDRANT SHALL BE EITHER FULL OPEN POSITION OR TOTALLY CLOSED POSITION. THE HYDRANT SHALL NOT BE UTILIZED TO THROTTLE OUTLET FLOW.
4. PRIOR TO PROJECT FINAL INSPECTION, THE HYDRANT AND ALL ABOVE GROUND PIPING SHALL BE RE-OILED, GREASED AND REPAINTED (RUS- KIL ENAMEL-INTERNATIONAL YELLOW OR EQUAL). PRIVATELY OWNED AND MAINTAINED FIRE HYDRANTS SHALL BE PAINTED RED.
5. FIRE HYDRANTS SHALL BE ORDERED WITH PROPER "BURY DEPTH" TO MEET ACTUAL FIELD CONDITIONS. THIS IS ESPECIALLY IMPORTANT FOR BRANCH LINES WHICH TEE-OFF A 12" OR LARGER WATER MAIN. UNLESS APPROVED OTHERWISE BY JEA, THE INSTALLATION OF (45°) BENDS IS NOT ACCEPTABLE WHEN UTILIZED TO CORRECT AN IMPROPERLY FURNISHED HYDRANT. THE USE OF HYDRANT EXTENSIONS SHOULD BE MINIMIZED.
6. BLUE REFLECTIVE MARKERS SHALL BE INSTALLED IN SUCH A MANNER THAT THE REFLECTIVE FACE OF THE MARKER IS PERPENDICULAR TO A LINE PARALLEL TO THE ROADWAY CENTERLINE. THE BLUE REFLECTIVE MARKERS SHALL BE PLACED IN THE CENTER OF THE TRAVEL LANE, DIRECTLY ACROSS FROM AND ADJACENT TO EACH FIRE HYDRANT.

FIRE HYDRANT INSTALLATION LIMITED SPACE

JANUARY 2023 PLATE W-14



NOTES:

1. LOCATE WIRE SHALL BE ROUTED FROM THE VALVE TO THE HYDRANT AS SHOWN ABOVE LEAVING ENOUGH SLACK TO REACH 4' ABOVE FINAL GRADE. THE END OF THE WIRE SHALL BE SECURED TO THE PIPE MAIN. SEE SECTION 350, LOCATE WIRE INSTALLATION PARAGRAPH.
2. FIRE HYDRANTS SHALL BE INSTALLED BETWEEN BACK OF CURB AND FACE OF SIDEWALK AND NOT WITHIN SWALE/DITCH AREAS. THE DISTANCE RANGE FROM EDGE OF ADJACENT PAVEMENT, BACK OF CURB AND FACE OF SIDEWALK SHALL BE IN COMPLIANCE WITH LOCAL COUNTY FIRE DEPARTMENT RULES AND AS APPROVED BY JEA AND APPLICABLE PERMITTING AGENCIES. DISTANCE SHALL BE MEASURED TO THE CLOSEST PART OF THE FIRE HYDRANT (I.E. THE PUMPER NOZZLE). THE MAXIMUM DISTANCE (BACK OF CURB) SHALL BE IN COMPLIANCE WITH LOCAL COUNTY FIRE DEPARTMENT RULES AND AS APPROVED BY JEA. FOR OTHER LOCATION LIMITATIONS SEE PLATES W-10 AND W-11. IF PIPING BETWEEN TEE AND HYDRANT IS LONGER THAN 80 LF, AN ADDITIONAL 6" GATE VALVE IS REQUIRED AT THE HYDRANT LOCATION (PROVIDE 30" SEPARATION). ALL PIPING, VALVES AND FITTINGS ALONG THE HYDRANT BRANCH MAIN WHICH IS WITHIN 15 LF OF THE HYDRANT SHALL BE RESTRAINED UTILIZING ONLY TWO 3/4" DIA (THREADED ENDS) STEEL RODS AND EYE BOLTS (NO JOINT RESTRAINT DEVICES REQUIRED). A SPLIT SERRATED RING WITH RESTRAINT EARS (EBAA 15 PF06 or EQUAL) MAYBE USED IN THIS ASSEMBLY. ALL OTHER JOINTS ALONG THE HYDRANT BRANCH MAIN OUTSIDE OF THE FIRST 15 LF SHALL INCLUDE JOINT RESTRAINTS.
3. OPERATION OF THE FIRE HYDRANT SHALL BE EITHER FULL OPEN POSITION OR TOTALLY CLOSED POSITION. THE HYDRANT SHALL NOT BE UTILIZED TO THROTTLE OUTLET FLOW.
4. PRIOR TO PROJECT FINAL INSPECTION, THE HYDRANT AND ALL ABOVE GROUND PIPING SHALL BE RE-OILED, GREASED AND REPAINTED (RUS- KIL ENAMEL-INTERNATIONAL YELLOW OR EQUAL). PRIVATELY OWNED AND MAINTAINED FIRE HYDRANTS SHALL BE PAINTED RED.
5. FIRE HYDRANTS SHALL BE ORDERED WITH PROPER "BURY DEPTH" TO MEET ACTUAL FIELD CONDITIONS. THIS IS ESPECIALLY IMPORTANT FOR BRANCH LINES WHICH TEE-OFF A 12" OR LARGER WATER MAIN. UNLESS APPROVED OTHERWISE BY JEA, THE INSTALLATION OF (45°) BENDS IS NOT ACCEPTABLE WHEN UTILIZED TO CORRECT AN IMPROPERLY FURNISHED HYDRANT. THE USE OF HYDRANT EXTENSIONS SHOULD BE MINIMIZED.
6. BLUE REFLECTIVE MARKERS SHALL BE INSTALLED IN SUCH A MANNER THAT THE REFLECTIVE FACE OF THE MARKER IS PERPENDICULAR TO A LINE PARALLEL TO THE ROADWAY CENTERLINE. THE BLUE REFLECTIVE MARKERS SHALL BE PLACED IN THE CENTER OF THE TRAVEL LANE, DIRECTLY ACROSS FROM AND ADJACENT TO EACH FIRE HYDRANT.

FIRE HYDRANT INSTALLATION USING MECHANICAL JOINT TEE

JANUARY 2023 PLATE W-13

REVISIONS	DATE	BY	NO.
			1.
			2.
			3.
			4.
			5.
			6.

DESIGN ENGINEER

FLORIDA REGISTRATION NO.

DESIGNER:
DRAWN BY:
DATE:
CHECKED BY:
DATE:

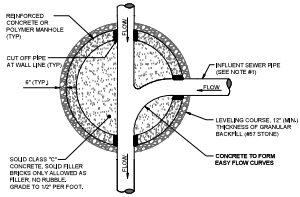
JEA Building Community℠

JEA STANDARD WATER MAIN DETAILS

PROJ. NO. N/A
DATE: N/A
SCALE: AS NOTED
NO. SHEETS N/A
SHEET NO. CD2.0
DRAWING NO. N/A

P:\Engineering\PROJECTS\Z-ONE TIME CLIENTS\22 JOBS\22-0280 New Berlin Gym\5-Civil\Plots\CD2.0-2.01JEA.dwg Current Layout Tab = CD2.0 Tue Jun 20, 2023 - 15:16

Xrefs Attached=



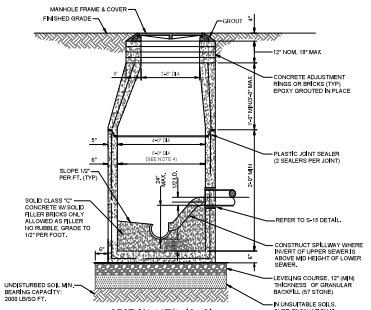
NOTES:

1. THE ANGLE BETWEEN ALL INFLUENT FLOW CHANNELS AND EFFLUENT PIPE SHALL BE BETWEEN 90° - 180° UNLESS OTHERWISE APPROVED BY JEA.

PLAN VIEW (S-3)

(FOR SECTION VIEW SEE S-2, S-2A)

JANUARY 2023 PLATE S-3



SECTION VIEW (S-2)

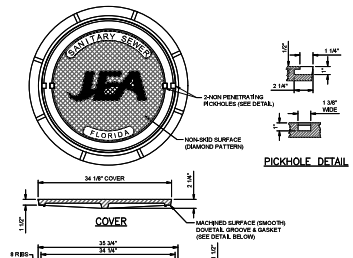
(FOR PLAN VIEW SEE S-3)

NOTES:

1. PRECAST MANHOLE SECTIONS TO BE MANUFACTURED IN ACCORDANCE WITH THE LATEST EDITIONS OF A.S.T.M. C-478 WITH 4000 LB. COND., TYPE II CEMENT. ALL LIFTING HOLES AND OUTSIDE INSERTS SHALL BE FILLED WITH NON-SHRINK GROUT AND COATED WITH BITUMINOUS WATERPROOFING MATERIAL.
2. THE INTERIOR AND EXTERIOR OF MANHOLE AND ADJUSTING RINGS SHALL BE GIVEN TWO COATS OF BITUMINOUS WATERPROOFING MATERIAL.
3. IF SPECIALTY LINER IS TO BE INSTALLED ON INSIDE SURFACE OF MANHOLE, THE BITUMINOUS WATERPROOFING MATERIAL SHALL BE OMITTED ON THE INSIDE.
4. JUNCTION MANHOLE (CLOSEST TO WETWELL) SHALL BE 8' DIA WITH SPECIALTY LINER.
5. ALL MANHOLE JOINTS BELOW THE TOP COVER SECTION SHALL INCLUDE A 6" WIDE (MIN) EXTERIOR JOINT TAPE (WITH PRIMER). TAPE ON THE CONE SECTION IS OPTIONAL. SEE PLATE S-17.
6. IN SILTS, CLAY OR HIGHLY ORGANIC SOILS (FINE-GRAINED SOILS INCLUDING SOIL GROUPS ML, CL, OL, MH, CH, OH AND PT) THE SOILS SHALL BE OVEREXCAVATED AN ADDITIONAL 24" (AT A MIN.) AND BACKFILLED WITH AASHTO CLASS A-3 SOIL (COMPACTED TO 98% ASTM D1557) OR OVER-EXCAVATE AN ADDITIONAL 12" (AT A MIN.) AND BACKFILL WITH GRANULAR BACKFILL (57 STONE).

SANITARY SEWER CONCRETE TYPE "A" MANHOLE 8"-21" SEWERS

JANUARY 2023 PLATES S-2, S-3

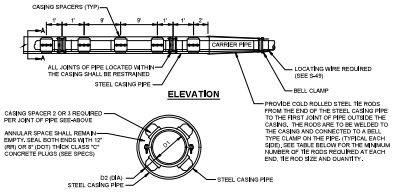


NOTES:

1. MATERIAL: ASTM A-48 CLASS 35B GRAY IRON.
2. RING WEIGHT: 200 LBS APPROX.
3. COVER WEIGHT: 256 LBS. APPROX.
4. ALL DIMENSIONS ARE SHOWN IN INCHES.
5. FOR MANHOLES WHICH WILL BE MAINTAINED BY JEA (INCLUDING UTILITY DEDICATION PROJECTS), THE COVER SHALL INCLUDE THE "JEA" LOGO AND A NEOPRENE GASKET.
6. FOR MANHOLES WHICH WILL BE MAINTAINED BY PARTIES OTHER THAN JEA (SUCH AS PRIVATE SEWER COLLECTION SYSTEMS, PRIVATE FORCE MAIN PUMP OUT BOX AND SYSTEMS NOT MAINTAINED BY JEA) THE COVER SHALL INCLUDE "SANITARY SEWER" GENERIC LETTERING (NO "JEA" LOGO OR NEOPRENE GASKET).

SANITARY SEWER MANHOLE FRAME AND COVER

JANUARY 2023 PLATE S-1



CARRIER TYPE AND CASING PIPE SIZES (MIN) IN INCHES													
CARRIER PIPE NO. DIA. (D_1)	4	6	8	10	12	14	16	18	20	24	30	36	42	48
CASING PIPE NOM. DIA. (D_2)	14	18	20	20	24	30	30	30	36	42	48	54	60	66
WALL THICKNESS RAILROAD-(REC)	0.25	0.28	0.375	0.375	0.375	0.50	0.50	0.50	0.562	0.625	0.625	0.688	0.781	0.781
WALL THICKNESS RAILROAD-(DOT)	0.25	0.281	0.375	0.375	0.375	0.469	0.469	0.469	0.562	0.625	0.688	0.781	0.844	0.938
WALL THICKNESS DOT	0.25	0.25	0.25	0.25	0.25	0.312	0.312	0.312	0.375	0.50	0.50	0.50	0.50	0.50
NUMBER OF TIE RODS (EACH END)	2	2	2	4	4	6	6	8	8	12	14	14	16	16
TIE ROD SIZE (DIA.)	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	1"	1"	1 1/4"	1 1/4"

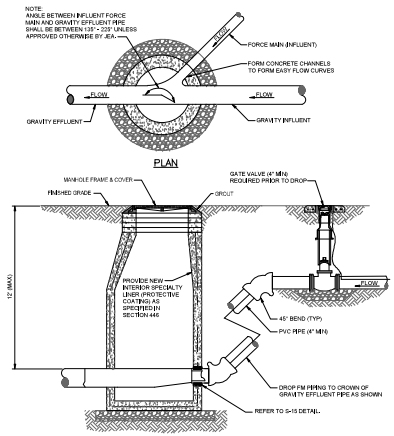
PIPE MAIN CROSSINGS FOR RAILROADS OR HIGHWAYS

NOTES:

1. FILL COVER TO TOP OF CASING. IN FDOT-SR (RAILROAD-SR) TO BASE OF RAIL. (SR FOR SECONDARY OR INDUSTRIAL TRACKS, EXCEPT FOR FJEC. (SEE NOTE 3)
2. THE INSIDE DIAMETER OF THE CASING PIPE SHALL BE A MINIMUM OF 4 INCHES GREATER THAN THE OUTSIDE DIAMETER OF THE CARRIER PIPE BELL OR COUPLING. HOWEVER, A MINIMUM OF 6 INCHES IS REQUIRED FOR FLORIDA EAST COAST RUN CROSSINGS.
3. THE MINIMUM COVER FOR CASING UNDER FLORIDA EAST COAST RAILROAD SHALL BE 5.0 FEET BELOW THE BOTTOM OF TIES FOR ALL TRACKS.
4. ALL JOINTS WITHIN CARRIER PIPE SHALL BE MECHANICAL RESTRAINED JOINTS.
5. FOR STREET USES WHICH ARE NOT DOT OR RAILROAD, USE DOT CASING THICKNESS UNLESS OTHERWISE INDICATED BY ENGINEER.
6. CASING PIPE SHALL BE FURNISHED IN NOMINAL 8 FOOT LENGTHS (MIN.) UNLESS OTHERWISE INDICATED ON THE DRAWING OR APPROVED BY JEA.
7. PIPE TO BE USED AS A CASING SHALL CONFORM TO EITHER ASTM STANDARD A139 FOR "ELECTRIC FUSION (ARC) WELDED STEEL PIPE", WITH A MINIMUM YIELD STRENGTH OF 35,000 PSI OR API SPECIFICATION 5L/ISO, GRADE A-25 WELDED STEEL PIPE.

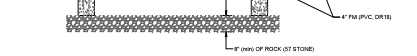
TYPICAL CASING DETAIL - SEWER

JANUARY 2023 PLATE S-25



TYPICAL FORCE MAIN CONNECTION TO MANHOLE

JANUARY 2023 PLATE S-18



NOTES:

1. SEWER PUMP-OUT BOX SHALL BE CONSTRUCTED ON PRIVATE PROPERTY AND LOCATED AT THE R/W LINE. THE PREFERRED CONSTRUCTION LAYOUT IS SHOWN ABOVE.
2. A ASSEMBLY TO BE ENCLOSED WITHIN A 48"x48" MIN 6 PRECAST CONCRETE BOX WITH OPEN BOTTOM WHICH IS TRAFFIC LOADED COVER OR TYPE "C" MANHOLE OPEN BOTTOM WITH FRAME AND COVER (NON-JEA LOGO TYPE COVER).
3. A JEA APPROVED GATE VALVE (4" MIN) SHALL BE PROVIDED AT THE R/W LINE FOR ALL FORCE MAIN PIPING WHICH EXCEEDS 10 LINEAR FEET WITHIN THE CITY R/W AREA. THE GATE VALVE AT THE R/W LINE IS NOT REQUIRED WHERE THE CONNECTION (CONNECTION AT JEA MAINLINE) LOCATED ON THE SAME SIDE OF THE STREET AS THE PUMP-OUT BOX (SHORT SIDE SERVICE) AND CONSIST OF 10 LINEAR FEET OR LESS WITHIN THE CITY R/W AREA.
4. NO CONNECTIONS PERMITTED INTO JEA FORCE MAINS WHICH ARE GREATER THAN 12" WITHOUT PRIOR JEA APPROVAL.
5. QUICK DISCONNECT WITH CAP SHALL BE ALUMINUM AND BE POSITIONED DIRECTLY UNDER MANHOLE LID FOR ACCESS.

PRIVATE PUMP OUT ASSEMBLY

JANUARY 2023 PLATE S-46

NO.	BY	DATE	REVISIONS
5			
4			
3			
2			
1			

REVIEWED BY
DRAWN BY
CHECKED BY
DATE

FIELD VERIFIED

FLORIDA REGISTRATION NO.

JEA Building Community

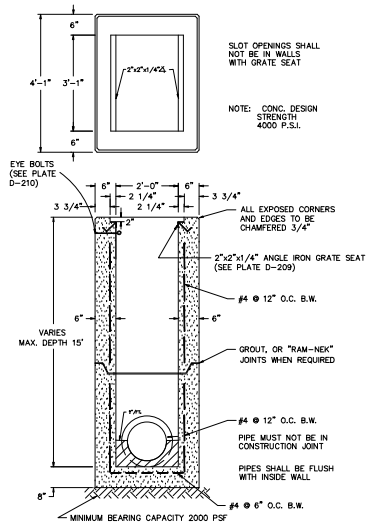
JEA STANDARD
SANITARY SEWER DETAILS

PROJ. NO.: N/A
DATE: N/A
SCALE: AS NOTED

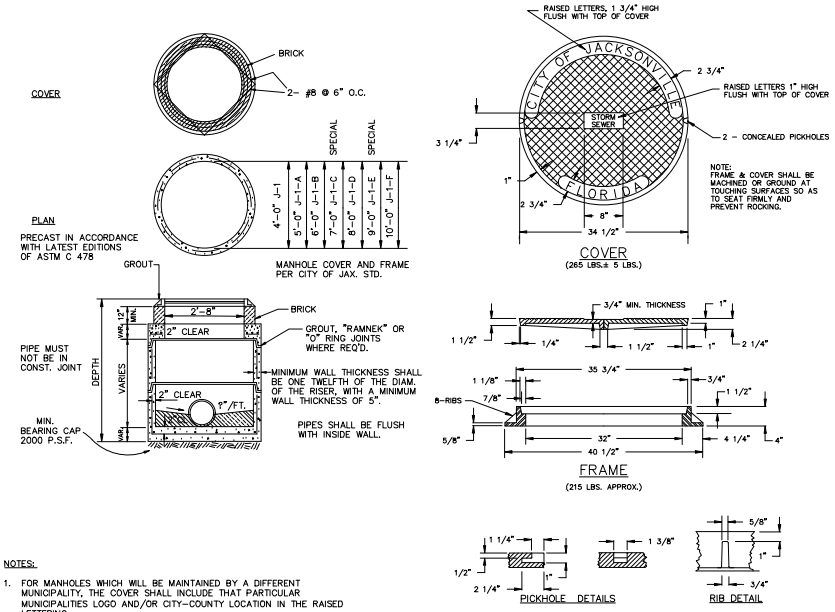
NO. SHEETS N/A
SHEET NO. CD2.01
DRAWING NO. N/A

P:\Engineering\PROJECTS\Z-ONE TIME CLIENTS\Z2 JOBS\Z2-0280 New Berlin Gym\5-Civil\Plots\CD2.0-2.01JEA.dwg Current Layout Tab = CD2.01 Tue Jun 20, 2023 - 15:17

Xrefs Attached=



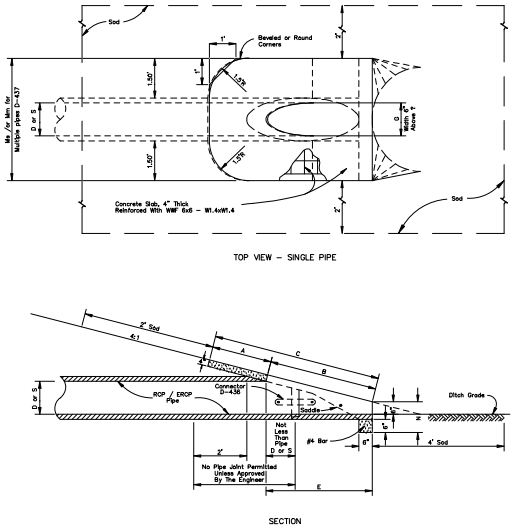
TYPE C INLET (1)



NOTES:

1. FOR MANHOLES WHICH WILL BE MAINTAINED BY A DIFFERENT MUNICIPALITY, THE COVER SHALL INCLUDE THAT PARTICULAR MUNICIPALITIES LOGO AND/OR CITY-COUNTY LOCATION IN THE RAISED LETTERING.

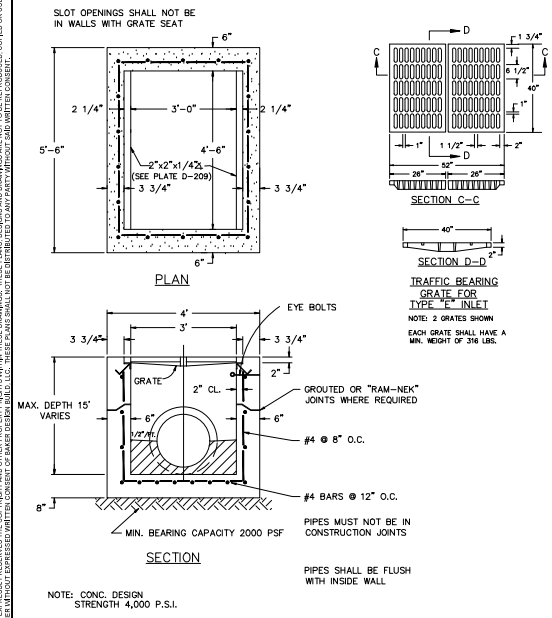
STORM SEWER MANHOLE TYPE J-1 THRU J-1-F (2)



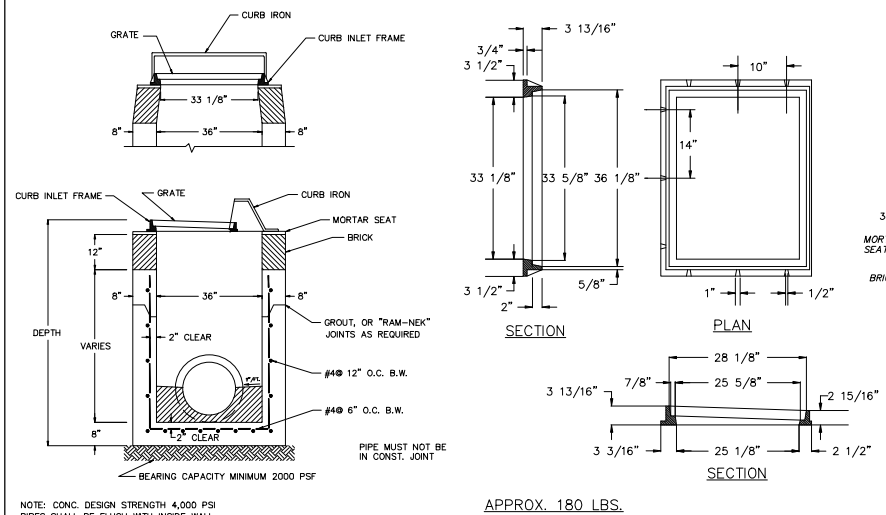
* Slope:
4:1 Miter To ℄ Of Pipe For Pipes 18" & Smaller
2:1 Miter For Pipes 24" & Larger, For RCP.

4:1 Miter To Major Axis For Pipes 24"x 38" & Smaller.
2:1 Miter For Pipes 29"x 45" & Larger, For ERCP.

MITERED END SECTION (3)



TYPE E INLET (4)



STORM SEWER CURB INLET (5)

BAKER Design Build
219 N. Newnan Street, 2nd Floor, Jacksonville FL 32202
p 904 356 8520 f 904 559 2678 bakerdesign.build
C.A No. 32489

Kyle F. Davis, P.E.
FL Reg. 63071

REVISIONS

No.	Date	Revision
1	3-23-23	Permit
2	4-13-23	Permit
3	5-5-23	Permit
4	6-19-23	Permit
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Site Development for:

New Berlin Gym

3549 New Berlin Rd.
Jacksonville, Florida 32226

Project Number
22-0280

Sheet Name
Grading & Drainage Details

Sheet Number
CD3.0

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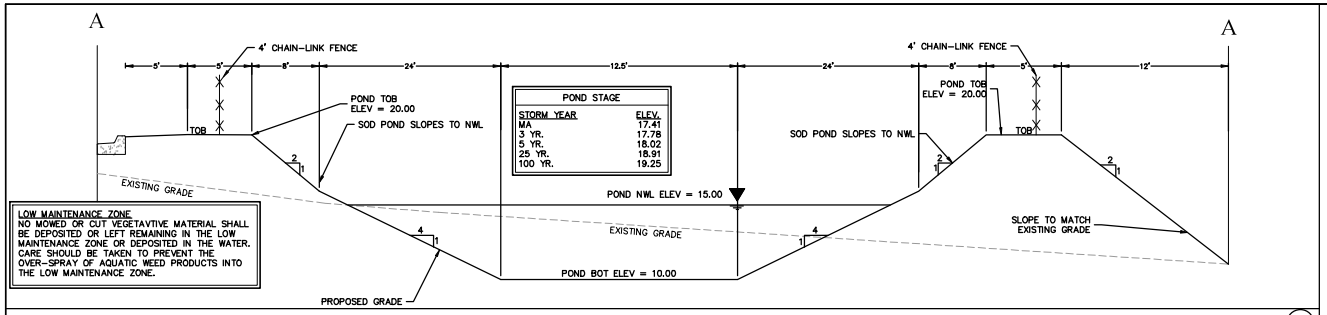
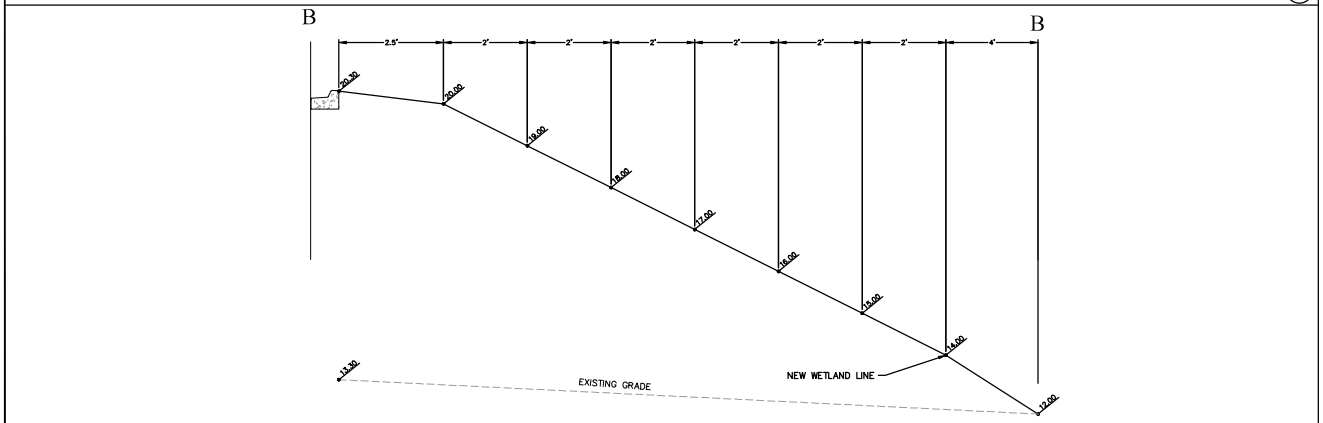
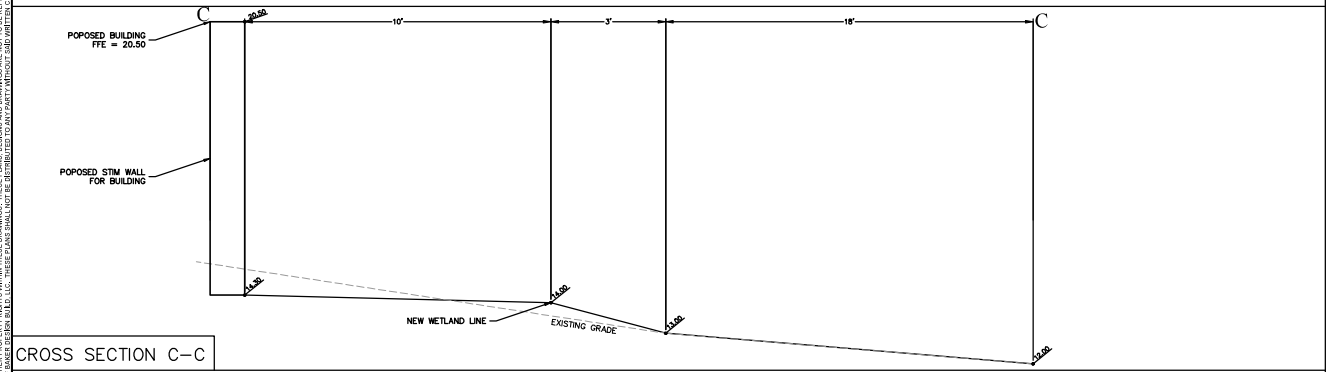


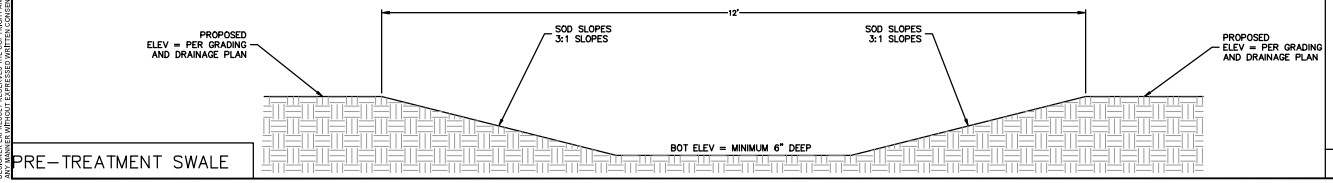
STORMWATER POND CROSS SECTION – SMF-1 (1)



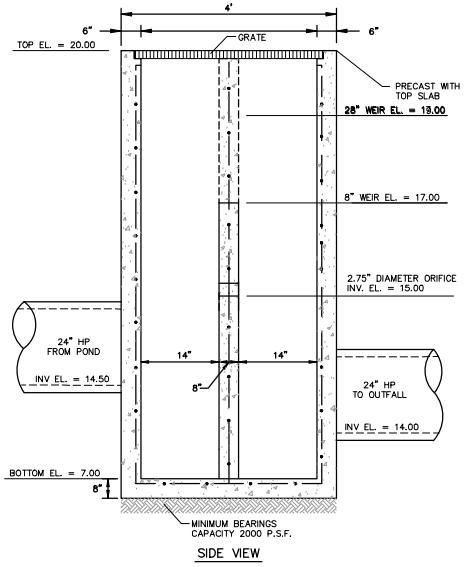
CROSS SECTION B–B



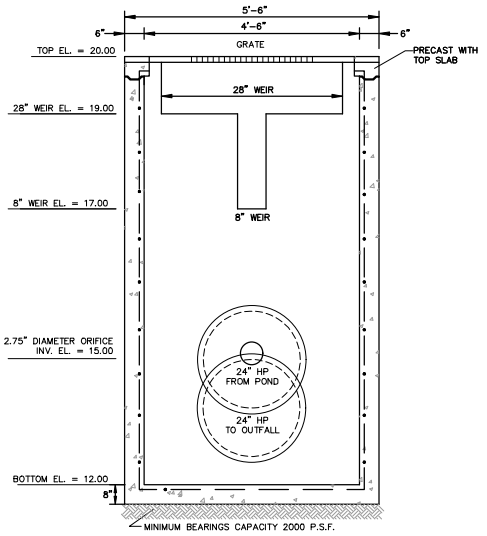
CROSS SECTION C–C



PRE–TREATMENT SWALE



SIDE VIEW



FRONT VIEW
N.T.S.

CONTROL STRUCTURE – MODIFIED TYPE "E" INLET

BAKER Design Build
219 N. Newnan Street, 2nd Floor, Jacksonville FL 32202
p 904 356 8520 f 904 559 2678 bakerdesign.build
C.A No. 32489

Kyle F. Davis, P.E.
FL Reg. 63071

REVISIONS

No.	Date	Revision
1	3-23-23	Permit
2	4-13-23	Permit
3	5-4-23	Permit
4	6-15-23	Permit
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Site Development for:

New Berlin Gym

3549 New Berlin Rd
Jacksonville, Florida 32226

Project Number
22-0280

Sheet Name
Grading & Drainage Details

Sheet Number
CD3.01

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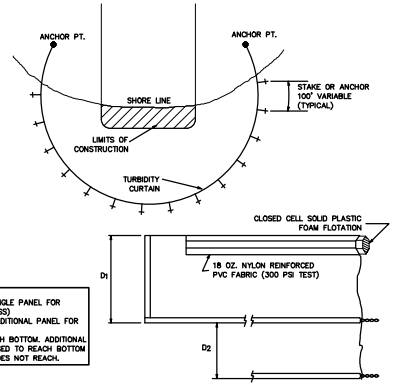
SEDIMENT & EROSION CONTROL NOTES

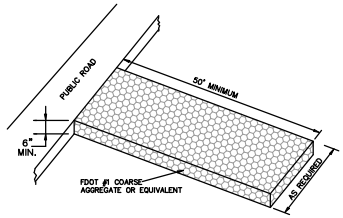
1. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING SILT FROM SITE IF NOT REUSABLE ON-SITE AND ASSURING PLAN ALIGNMENT AND GRADE IN ALL DITCHES AND SWALES AT COMPLETION OF CONSTRUCTION.
2. THE SITE CONTRACTOR IS RESPONSIBLE FOR REMOVING THE TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES AFTER COMPLETION OF CONSTRUCTION AND ONLY WHEN AREAS HAVE BEEN STABILIZED.
3. ADDITIONAL PROTECTION – ON-SITE PROTECTION IN ADDITION TO THE ABOVE MUST BE PROVIDED THAT WILL NOT PERMIT SILT TO LEAVE THE PROJECT CONFINES DUE TO UNSEEN CONDITIONS OR ACCIDENTS.
4. CONTRACTOR SHALL INSURE THAT ALL DRAINAGE STRUCTURES, PIPES, ETC. ARE CLEANED OUT AND WORKING PROPERLY AT TIME OF ACCEPTANCE.
5. WIRE MESH SHALL BE LAID OVER THE DROP INLET SO THAT THE WIRE EXTENDS A MINIMUM OF 1 FOOT BEYOND EACH SIDE OF THE INLET STRUCTURE. HARDWARE CLOTH OR COMPARABLE WIRE MESH WITH 1/2-INCH OPENINGS SHALL BE USED. IF MORE THAN ONE STRIP OF MESH IS NECESSARY, THE STRIPS SHALL BE OVERLAPPED.
6. FDOT NO. 1 COARSE AGGREGATE SHALL BE PLACED OVER THE WIRE MESH AS INDICATED ON SEDIMENT FILTER DETAIL (SEE DETAIL THIS SHEET). THE DEPTH OF STONE SHALL BE AT LEAST 12 INCHES OVER THE ENTIRE INLET OPENING. THE STONE SHALL EXTEND BEYOND THE INLET OPENING AT LEAST 18 INCHES ON ALL SIDES.
7. IF THE STONE FILTER BECOMES CLOGGED WITH SEDIMENT SO THAT IT NO LONGER ADEQUATELY PERFORMS ITS FUNCTION, THE STONES MUST BE PULLED AWAY FROM THE INLET, CLEANED AND REPLACED.
8. SYNTHETIC BALES SHALL BE EITHER WIRE-BOUND OR STRING-TIED WITH THE BINDINGS ORIENTED AROUND THE SIDES RATHER THAN OVER AND UNDER THE BALES.
9. SYNTHETIC BALES SHALL BE PLACED LENGTHWISE IN A SINGLE ROW SURROUNDING THE INLET, WITH THE ENDS OF ADJACENT BALES PRESSED TOGETHER.
10. THE FILTER BARRIER SHALL BE ENTRENCHED AND BACKFILLED. A TRENCH SHALL BE EXCAVATED TO A MINIMUM DEPTH OF 4 INCHES. AFTER THE SYNTHETIC BALES ARE STAKED, THE EXCAVATED SOIL SHALL BE BACKFILLED AND COMPACTED AGAINST THE FILTER BARRIER.
11. EACH SYNTHETIC BALE SHALL BE SECURELY ANCHORED AND HELD IN PLACE BY AT LEAST TWO STAKES OR REBARS DRIVEN THROUGH THE BALE.
12. LOOSE SYNTHETIC STRAW SHOULD BE WEDGED BETWEEN BALES TO PREVENT WATER FROM ENTERING BETWEEN BALES.
13. SYNTHETIC STRAW BALE BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL.
14. CLOSE ATTENTION SHALL BE GIVEN TO THE REPAIR OF DAMAGED SYNTHETIC BALES, END RUNS AND UNDERCUTTING BENEATH SYNTHETIC BALES.
15. NECESSARY REPAIRS TO BARRIERS OR REPLACEMENT OF SYNTHETIC BALES SHALL BE ACCOMPLISHED PROMPTLY.
16. SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH RAINFALL. IT MUST BE REMOVED WHEN THE LEVEL OF DEPOSITION REACHES APPROXIMATELY ONE-HALF THE HEIGHT OF THE BARRIER.
17. ANY SEDIMENT DEPOSITS REMAINING IN PLACE, AFTER THE STRAW BALE OR FILTER BARRIERS, AND OR SILT FENCES ARE NO LONGER REQUIRED, SHALL BE DRESSED TO CONFORM TO THE EXISTING GRADE, PREPARED AND SEEDED.
18. SILT FENCES AND FILTER BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.
19. SHOULD THE FABRIC ON A SILT FENCE OR FILTER BARRIER DECOMPOSE OR BECOME INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE AND THE BARRIER STILL BE NECESSARY, THE FABRIC SHALL BE REPLACED IMMEDIATELY.
20. THE STRUCTURE SHALL BE INSPECTED AFTER EACH RAIN AND REPAIRS MADE AS NEEDED.
21. SEDIMENT SHALL BE REMOVED AND THE TRAP RESTORED TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED TO 1/2 THE DESIGN DEPTH OF THE TRAP. REMOVED SEDIMENT SHALL BE DEPOSITED IN A SUITABLE AREA AND IN SUCH A MANNER THAT IT WILL NOT ERODE.
22. THE CONTRACTOR IS RESPONSIBLE FOR FOLLOWING THE BEST EROSION AND SEDIMENT CONTROL PRACTICES AS OUTLINED IN THE PLANS, SPECIFICATIONS AND ST. JOHNS RIVER WATER MANAGEMENT DISTRICT SPECIFICATIONS AND CRITERIA.
23. FOR ADDITIONAL INFORMATION ON SEDIMENT AND EROSION CONTROL REFER TO "THE FLORIDA DEVELOPMENT MANUAL – A GUIDE TO SOUND LAND AND WATER MANAGEMENT" FROM THE STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION (F.D.E.R.) CHAPTER 6.
24. EROSION AND SEDIMENT CONTROL BARRIERS SHALL BE PLACED ADJACENT TO ALL WETLAND AREAS AND PRESERVATION EASEMENTS WHERE THERE IS POTENTIAL FOR DOWNSTREAM WATER QUALITY DEGRADATION. SEE DETAILS (THIS SHEET) FOR TYPICAL CONSTRUCTION.
25. SOD SHALL BE PLACED IN AREAS WHICH MAY REQUIRE IMMEDIATE EROSION PROTECTION TO ENSURE WATER QUALITY STANDARDS ARE MAINTAINED.
26. ANY DISCHARGE FROM DEWATERING ACTIVITY SHALL BE FILTERED AND CONVEYED TO THE OUTFALL IN A MANNER WHICH PREVENTS EROSION AND TRANSPORTATION OF SUSPENDED SOLIDS TO THE RECEIVING OUTFALL.
27. DEWATERING PUMPS SHALL NOT EXCEED THE CAPACITY OF THAT WHICH REQUIRES A CONSUMPTIVE USE PERMIT FROM THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT.
28. ALL DISTURBED AREAS SHALL BE GRASSED, FERTILIZED AND MULCHED UNTIL A PERMANENT VEGETATIVE COVER IS ESTABLISHED. CONTRACTOR SHALL USE ADDITIONAL MEASURES TO STABILIZE DISTRURBED AREAS THROUGH COMPACTION, SILT SCREENS, HAY BALES, AND GRASSING. ALL FILL SLOPES 3:1 OR STEEPER TO RECEIVE STAKED SOLID SOD.
29. ALL DEWATERING, EROSION, AND SEDIMENT CONTROL SHALL REMAIN IN PLACE UNTIL AFTER COMPLETION OF CONSTRUCTION, AND REMOVED ONLY WHEN AREAS HAVE BEEN STABILIZED.
30. THIS PLAN INDICATES THE MINIMUM EROSION AND SEDIMENT MEASURES REQUIRED FOR THIS PROJECT. THE CONTRACTOR IS RESPONSIBLE FOR MEETING ALL APPLICABLE RULES, REGULATIONS AND WATER QUALITY GUIDELINES AND MAY NEED TO INSTALL ADDITIONAL CONTROLS.
31. THE CONTRACTOR SHALL BE REQUIRED TO RESPOND TO ALL WATER MANAGEMENT DISTRICT INQUIRIES, RELATIVE TO COMPLIANCE OF SJRWMD FOR EROSION AND SEDIMENTATION CONTROL. THE COST OF THIS COMPLIANCE SHALL BE PART OF THE CONTRACT.
32. THE CONTRACTOR IS RESPONSIBLE FOR FOLLOWING THE BEST EROSION AND SEDIMENT CONTROL PRACTICES AS OUTLINED IN THE PLANS AND SPECIFICATIONS AND THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT RULES AND REGULATIONS.
33. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING A PERMANENT STAND OF SOD AND/OR GRASS PER THE CONTRACT DOCUMENTS THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT AND CITY OF JACKSONVILLE STANDARDS AND MEETING THE NPDES FINAL STABILIZATION REQUIREMENTS.
34. THESE PLANS INCLUDING THE POLLUTION PREVENTION PLAN INDICATE THE MINIMUM EROSION & SEDIMENT CONTROL MEASURES REQUIRED FOR THIS PROJECT. FOR ADDITIONAL INFORMATION ON SEDIMENT AND EROSION CONTROL REFER TO "THE FLORIDA DEVELOPMENT MANUAL – A GUIDE TO SOUND LAND AND WATER MANAGEMENT" FROM THE STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (F.D.E.P.) CHAPTER 6. CONTRACTOR SHALL PROVIDE EROSION PROTECTION AND TURBIDITY CONTROL AS REQUIRED TO INSURE CONFORMANCE TO STATE AND FEDERAL WATER QUALITY STANDARDS AND MAY NEED TO INSTALL ADDITIONAL CONTROLS TO CONFORM TO AGENCIES REQUIREMENTS. IF A WATER QUALITY VIOLATION OCCURS, THE CONTRACTOR SHALL BE WHOLLY RESPONSIBLE FOR ALL DAMAGE AND ALL COSTS WHICH MAY RESULT INCLUDING LEGAL FEES, CONSULTANT FEES, CONSTRUCTION COSTS, AND FINES.
35. 48 HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION, THE CONTRACTOR WILL SUBMIT A "NOTICE OF INTENT" TO THE EPA IN ACCORDANCE WITH NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM RULES AND REGULATIONS. (FOR ANY CONSTRUCTION NOT COVERED BY THE OWNER'S "NOTICE OF INTENT" PERMIT).



NOTES:
D1 = 5' STD. (SINGLE PANEL FOR DEPTHS 5' OR LESS)
D2 = 5' STD. (ADDITIONAL PANEL FOR DEPTH >5')
CURTAIN TO REACH BOTTOM. ADDITIONAL PANELS TO BE USED TO REACH BOTTOM IF SINGLE ROW DOES NOT REACH.

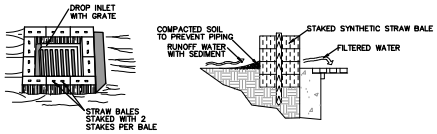
FLOATING TURBIDITY BARRIER

N.T.S.



STABILIZED CONSTRUCTION ENTRANCE

N.T.S.

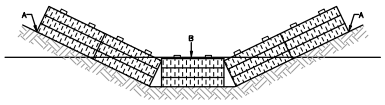


SPECIFIC APPLICATION

THIS METHOD OF INLET PROTECTION IS APPLICABLE WHERE THE INLET DRAINS A RELATIVELY FLAT AREA (SLOPES NO GREATER THAN 5 PERCENT) WHERE SHEET OR OVERLAND FLOWS (NOT EXCEEDING 0.5 cfs) ARE TYPICAL. THE METHOD SHALL NOT APPLY TO INLETS RECEIVING CONCENTRATED FLOWS, SUCH AS IN STREET OR HIGHWAY MEDIANS.

SYNTHETIC STRAW BALE DROP INLET SEDIMENT FILTER

N.T.S.

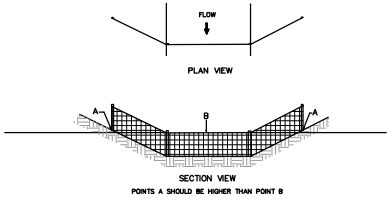


POINTS A SHOULD BE HIGHER THAN POINT B

PROPER PLACEMENT OF SYNTHETIC STRAW BALE

IN A DRAINAGE WAY

N.T.S.

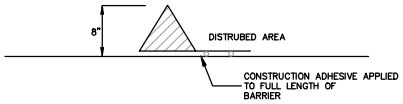


POINTS A SHOULD BE HIGHER THAN POINT B

PROPER PLACEMENT OF A

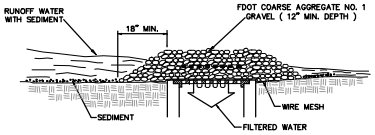
FILTER BARRIER IN DRAINAGE WAY

N.T.S.



8" SILT DIKE

N.T.S.



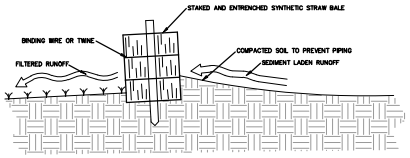
SPECIFIC APPLICATION

THIS METHOD OF INLET PROTECTION IS APPLICABLE WHERE HEAVY CONCENTRATED FLOWS ARE EXPECTED, BUT NOT WHERE PONDING AROUND THE STRUCTURE MIGHT CAUSE EXCESSIVE INCONVENIENCE OR DAMAGE TO ADJACENT STRUCTURES AND UNPROTECTED AREAS.

GRAVEL AND WIRE MESH DROP INLET

SEDIMENT FILTER

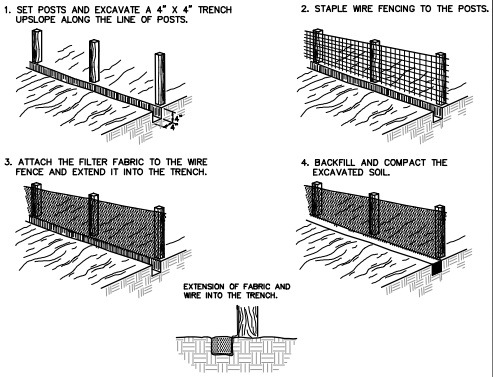
N.T.S.



CROSS-SECTION OF A PROPERLY

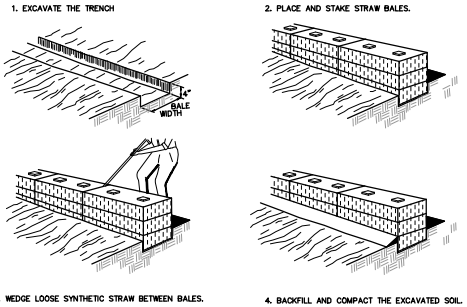
INSTALLED SYNTHETIC STRAW BALE

N.T.S.



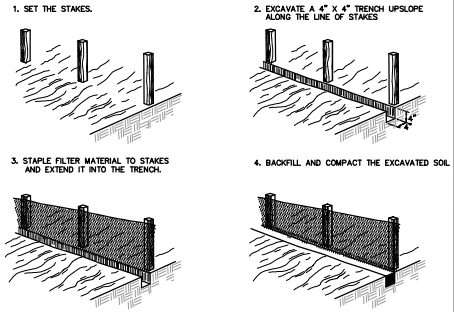
CONSTRUCTION OF SILT FENCE

N.T.S.



CONSTRUCTION OF A SYNTHETIC STRAW BALE BARRIER

N.T.S.



CONSTRUCTION OF A FILTER BARRIER

N.T.S.

BAKER Design Build
219 N. Newnan Street, 2nd Floor, Jacksonville FL 32202
p 904 356 8520 f 904 559 2678 bakerdesign.build
C.A No. 32489

Kyle F. Davis, P.E.
FL Reg. 63071

REVISIONS

No.	Date	Revision
1	3-23-23	Permit
2	4-13-23	Permit
3	5-5-23	Permit
4	6-15-23	Permit
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Site Development for:

New Berlin Gym

3549 New Berlin Rd
Jacksonville, Florida 32226

Project Number
22-0280

Sheet Name
Sediment & Erosion Control Details

Sheet Number
CD4.0

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OWNER'S REQUIREMENTS

SITE DESCRIPTION

PROJECT NAME AND LOCATION:
NEW BERLIN GYM
0 NEW BERLIN RD
JACKSONVILLE, FLORIDA 32226

OWNER NAME AND ADDRESS:
DONALD HEATH WILLIAMS
3372 SHAUNA OAKS CIR E
JACKSONVILLE, FLORIDA

DESCRIPTION: THIS PROJECT WILL CONSIST OF:

SITE CLEARING, DEMO EXISTING CONCRETE FOUNDATION, SIDEWALK, CONSTRUCT NEW 20,072 SF BUILDING WITH ASSOCIATED PARKING, STORMWATER MANAGEMENT FACILITY, WATER AND SANITARY SEWER SERVICE.

SOIL DISTURBING ACTIVITIES WILL INCLUDE:
CLEARING AND GRUBBING; INSTALLING A STABILIZED CONSTRUCTION ENTRANCE, PERIMETER, AND OTHER EROSION AND SEDIMENT CONTROLS; GRADING; EXCAVATION FOR THE SEDIMENTATION POND, STORM SEWER, UTILITIES, AND BUILDING FOUNDATION; CONSTRUCTION OF CURB AND GUTTER, ROAD, AND PARKING AREAS; AND PREPARATION FOR FINAL PLANTING AND SEEDING.

RUNOFF CURVE NUMBERS

1. PRE-CONSTRUCTION = 00
2. DURING CONSTRUCTION = 00
3. POST-CONSTRUCTION = 00

SOILS:
SEE GEOTECHNICAL REPORT FOR SOILS DATA SITE MAPS:

* SEE ATTACHED PAVING AND DRAINAGE SHEET C5.0 FOR ALL GRADES, AREAS OF SOILS, DISTURBANCE, LOCATION OF SURFACE WATERS, WETLANDS, PROTECTED AREAS, MAJOR STRUCTURAL AND NONSTRUCTURAL CONTROLS AND STORM WATER DISCHARGE POINTS.

* SEE ATTACHED SHEET C7.0 FOR LOCATION OF TEMPORARY STABILIZATION PRACTICES AND TURBIDITY BARRIERS.

SITE AREA:
1. TOTAL AREA OF SITE = 0.00 AC.
2. TOTAL AREA TO BE DISTURBED = 0.00 AC.

NAME OF RECEIVING WATERS: --

GENERAL

THE CONTRACTOR SHALL AT A MINIMUM IMPLEMENT THE CONTRACTOR'S REQUIREMENTS OUTLINED BELOW AND THOSE MEASURES SHOWN ON THE EROSION AND TURBIDITY CONTROL PLAN. IN ADDITION THE CONTRACTOR SHALL UNDERTAKE ADDITIONAL MEASURES REQUIRED TO BE IN COMPLIANCE WITH APPLICABLE PERMIT CONDITIONS AND STATE WATER QUALITY STANDARDS. DEPENDING ON THE NATURE OF MATERIALS AND METHODS OF CONSTRUCTION THE CONTRACTOR MAY BE REQUIRED TO ADD FLOCCULANTS TO THE RETENTION SYSTEM PRIOR TO PLACING THE SYSTEM INTO OPERATION.

SEQUENCE OF MAJOR ACTIVITIES:

THE ORDER OF ACTIVITIES WILL BE AS FOLLOWS:

1. INSTALL STABILIZED CONSTRUCTION ENTRANCE
2. INSTALL SILT FENCES AND HAY BALES AS REQUIRED
3. CLEAR AND GRUB FOR DIVERSION SWALES/DIKES AND SEDIMENT BASIN
4. CONSTRUCT SEDIMENTATION BASIN
5. CONTINUE CLEARING AND GRUBBING
6. STOCK PILE TOP SOIL IF REQUIRED
7. PERFORM PRELIMINARY GRADING ON SITE AS REQUIRED
8. STABILIZE DENUDED AREAS AND STOCKPILES AS SOON AS PRACTICABLE
9. INSTALL UTILITIES, STORM SEWER, CURBS & GUTTER.
10. APPLY BASE TO PARKING AREAS
11. COMPLETE GRADING AND INSTALL PERMANENT SEEDING/SOD AND PLANTING
12. COMPLETE FINAL PAVING
13. REMOVE ACCUMULATED SEDIMENT FROM BASINS
14. WHEN ALL CONSTRUCTION ACTIVITY IS COMPLETE AND THE SITE IS STABILIZED, REMOVE ANY TEMPORARY DIVERSION SWALES/DIKES AND RESEED/SOD AS REQUIRED

NOTE: VERTICAL CONSTRUCTION OF THE BUILDING WILL BE TAKING PLACE DURING ALL THE SEQUENCE STEPS LISTED ABOVE

TIMING OF CONTROLS/MEASURES

AS INDICATED IN THE SEQUENCE OF MAJOR ACTIVITIES, THE SILT FENCES AND HAY BALES, STABILIZED CONSTRUCTION ENTRANCE AND SEDIMENT BASIN WILL BE CONSTRUCTED PRIOR TO CLEARING OR GRADING OF ANY OTHER PORTIONS OF THE SITE. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICAL IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED. ONCE CONSTRUCTION ACTIVITY CEASES PERMANENTLY IN AN AREA, THAT AREA WILL BE STABILIZED PERMANENTLY IN ACCORDANCE WITH THE PLANS. AFTER THE ENTIRE SITE IS STABILIZED, THE ACCUMULATED SEDIMENT WILL BE REMOVED FROM THE SEDIMENT TRAPS AND THE EARTH DIKE/SWALES WILL BE REGRADED/REMOVED AND STABILIZED IN ACCORDANCE WITH THE SEDIMENT AND EROSION CONTROL PLAN. (DWG. NO.

CONTROLS

THIS PLAN UTILIZES BEST MANAGEMENT PRACTICES TO CONTROL EROSION AND TURBIDITY CAUSED BY STORM WATER RUN OFF. DRAWING NO. C-540 HAS BEEN PREPARED TO INSTRUCT THE CONTRACTOR ON PLACEMENT OF THESE CONTROLS. IT IS THE CONTRACTORS RESPONSIBILITY TO INSTALL AND MAINTAIN THE CONTROLS AS PER PLAN AS WELL AS ENSURING THE PLAN IS PROVIDING THE PROPER PROTECTION AS REQUIRED BY FEDERAL, STATE AND LOCAL LAWS. REFER TO "CONTRACTORS REQUIREMENTS" FOR A VERBAL DESCRIPTION OF THE CONTROLS THAT MAY BE IMPLEMENTED.

STORM WATER MANAGEMENT

STORM WATER DRAINAGE WILL BE PROVIDED BY CURB AND GUTTER STORM SEWER, CURB INLETS AND CATCH BASINS FOR THE DEVELOPED AREAS. AREAS WHICH ARE NOT DEVELOPED BUT WILL BE REGRADED SHALL BE STABILIZED IMMEDIATELY AFTER GRADING IS COMPLETE. WHEN CONSTRUCTION IS COMPLETE, A TOTAL OF 0.00 ACRES± WILL HAVE BEEN REGRADED WHERE PRACTICAL. THE TEMPORARY SEDIMENT BASIN WILL BE IN THE LOCATION OF THE PERMANENT RETENTION BASIN. WHEN UPSLOPE AREAS ARE STABILIZED, THE ACCUMULATED SEDIMENT WILL BE REMOVED FROM SEDIMENT BASIN, AND THE AREAS ON THE SIDE OF THE BASIN WILL BE PLANTED WITH VEGETATION. THE WET DETENTION SYSTEM IS DESIGNED WITH A 21 DAY MINIMUM RESIDENCE VOLUME. THIS IS IN ACCORDANCE WITH THE REQUIREMENTS SET FORTH BY THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT FOR THIS TYPE OF DEVELOPMENT AT THE TIME OF PERMITTING.

REFER TO " CONTRACTORS REQUIREMENTS" FOR THE TIMING OF CONTROL/MEASURES.

CERTIFICATION OF COMPLIANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS

IN AN EFFORT TO ENSURE COMPLIANCE WITH FEDERAL, STATE AND LOCAL LAWS REGARDING EROSION AND TURBIDITY CONTROLS, THE FOLLOWING PERMITS HAVE BEEN OBTAINED.

D.E.P. DREDGE/FILL PERMIT # ____________
C.O.E. DREDGE/FILL PERMIT # ____________
S.J.R.W.M.D. M.S.S.W. PERMIT # ____________

CITY OF JACKSONVILLE DEVELOPMENT PERMIT # ____________

POLLUTION PREVENTION PLAN CERTIFICATION

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHERED AND EVALUATED THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE 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 KNOWING VIOLATIONS.

SIGNED: ____________________

TITLE: ____________________
CORPORATE OFFICER, GENERAL PARTNER, PROPRIETOR, EXECUTIVE OFFICER, OR RANKING ELECTED OFFICIAL

DATE: ____________________

CONTROLS

IT IS THE CONTRACTORS RESPONSIBILITY TO IMPLEMENT THE EROSION AND TURBIDITY CONTROLS AS SHOWN ON THE SEDIMENT AND EROSION CONTROL PLAN. IT IS ALSO THE CONTRACTORS RESPONSIBILITY TO ENSURE THESE CONTROLS ARE PROPERLY INSTALLED , MAINTAINED AND FUNCTIONING PROPERLY TO PREVENT TURBID OR POLLUTED WATER FROM LEAVING THE PROJECT SITE. THE CONTRACTOR WILL ADJUST THE EROSION AND TURBIDITY CONTROLS SHOWN ON THE SEDIMENT AND EROSION CONTROL PLAN AND ADD ADDITIONAL CONTROL MEASURES, AS REQUIRED,TO ENSURE THE SITE MEETS ALL FEDERAL, STATE AND LOCAL EROSION AND TURBIDITY CONTROL REQUIREMENTS. THE FOLLOWING BEST MANAGEMENT PRACTICES WILL BE IMPLEMENTED BY THE CONTRACTOR AS REQUIRED BY THE EROSION AND SEDIMENT CONTROL PLAN AND AS REQUIRED TO MEET THE SEDIMENT AND TURBIDITY REQUIREMENTS IMPOSED ON THE PROJECT SITE BY THE REGULATORY AGENCIES.

EROSION AND SEDIMENT CONTROLS STABILIZATION PRACTICES

1. STRAW BALE BARRIER: STRAW BALE BARRIERS CAN BE USED BELOW DISTURBED AREAS SUBJECT TO SHEET AND RILL EROSION WITH THE FOLLOWING LIMITATIONS:
   A. WHERE THE MAXIMUM SLOPE BEHIND THE BARRIER IS 33 PERCENT.
   B. IN MINOR SWALES OR DITCH LINES WHERE THE MAXIMUM CONTRIBUTING DRAINAGE AREA IS NO GREATER THAN 2 ACRES.
   C. WHERE EFFECTIVENESS IS REQUIRED FOR LESS THAN 3 MONTHS.
   D. EVERY EFFORT SHOULD BE MADE TO LIMIT THE USE OF STRAW BALE BARRIERS CONSTRUCTED IN LIVE STREAMS OR IN SWALES WHERE THERE IS THE POSSIBILITY OF A WASHOUT. IF NECESSARY, MEASURES SHALL BE TAKEN TO PROPERLY ANCHOR BALES TO INSURE AGAINST WASHOUT.
2. FILTER FABRIC BARRIER: FILTER FABRIC BARRIERS CAN BE USED BELOW DISTURBED AREAS SUBJECT TO SHEET AND RILL EROSION WITH THE FOLLOWING LIMITATIONS:
   A. WHERE THE MAXIMUM SLOPE BEHIND THE BARRIER IS 33 PERCENT.
   B. IN MINOR SWALES OR DITCH LINES WHERE THE MAXIMUM CONTRIBUTING DRAINAGE AREA IS NO GREATER THAN 2 ACRES.
3. BRUSH BARRIER WITH FILTER FABRIC: BRUSH BARRIER MAY BE USED BELOW DISTURBED AREAS SUBJECT TO SHEET AND RILL EROSION WHERE ENOUGH RESIDUE MATERIAL IS AVAILABLE ON SITE.
4. LEVEL SPREADER: A LEVEL SPREADER MAY BE USED WHERE SEDIMENT-FREE STORM RUNOFF IS INTERCEPTED AND DIVERTED AWAY FROM THE GRADED AREAS ONTO UNDISTURBED STABILIZED AREAS. THIS PRACTICE APPLIES ONLY IN THOSE SITUATIONS WHERE THE SPREADER CAN BE CONSTRUCTED ON UNDISTURBED SOIL AND THE AREA BELOW THE LEVEL LIP IS STABILIZED. THE WATER SHOULD NOT BE ALLOWED TO RECONCENTRATE AFTER RELEASE.
5. STOCKPILING MATERIAL: NO EXCAVATED MATERIAL SHALL BE STOCKPILED IN SUCH A MANNER AS TO DIRECT RUNOFF DIRECTLY OFF THE PROJECT SITE INTO ANY ADJACENT WATER BODY OR STORM WATER COLLECTION FACILITY.
6. EXPOSED AREA LIMITATION: THE SURFACE AREA OF OPEN, RAW ERODIBLE SOIL EXPOSED BY CLEARING AND GRUBBING OPERATIONS OR EXCAVATION AND FILLING OPERATIONS SHALL NOT EXCEED 10 ACRES. THIS REQUIREMENT MAY BE WAIVED FOR LARGE PROJECTS WITH AN EROSION CONTROL PLAN WHICH DEMONSTRATES THAT OPENING OF ADDITIONAL AREAS WILL NOT SIGNIFICANTLY AFFECT OFF-SITE DEPOSIT OF SEDIMENTS.
7. INLET PROTECTION: INLETS AND CATCH BASINS WHICH DISCHARGE DIRECTLY OFF-SITE SHALL BE PROTECTED FROM SEDIMENT-LADEN STORM RUNOFF UNTIL THE COMPLETION OF ALL CONSTRUCTION OPERATIONS THAT MAY CONTRIBUTE SEDIMENT TO THE INLET.
8. TEMPORARY SEEDING: AREAS OPENED BY CONSTRUCTION OPERATIONS AND THAT ARE NOT ANTICIPATED TO BE RE-EXCAVATED OR DRESSED AND RECEIVE FINAL GRASSING TREATMENT WITHIN 30 DAYS SHALL BE SEEDED WITH A QUICK GROWING GRASS SPECIES WHICH WILL PROVIDE AN EARLY COVER DURING THE SEASON IN WHICH IT IS PLANTED AND WILL NOT LATER COMPETE WITH THE PERMANENT GRASSING.
9. TEMPORARY SEEDING AND MULCHING: SLOPES STEEPER THAN 6:1 THAT FALL WITHIN THE CATEGORY ESTABLISHED IN PARAGRAPH 8 ABOVE SHALL ADDITIONALLY RECEIVE MULCHING OF APPROXIMATELY 2 INCHES LOOSE MEASURE OF MULCH MATERIAL CUT INTO THE SOIL OF THE SEEDED AREA ADEQUATE TO PREVENT MOVEMENT OF SEED AND MULCH.

CONTRACTOR'S REQUIREMENTS

10. TEMPORARY GRASSING: THE SEEDED OR SEEDED AND MULCHED AREA(S) SHALL BE ROLLED AND WATERED OR HYDROMULCHED OR OTHER SUITABLE METHODS IF REQUIRED TO ASSURE OPTIMUM GROWING CONDITIONS FOR THE ESTABLISHMENT OF A GOOD GRASS COVER.
11. TEMPORARY REGRASSING: IF, AFTER 14 DAYS FROM SEEDING, THE TEMPORARY GRASSED AREAS HAVE NOT ATTAINED A MINIMUM OF 75 PERCENT GOOD GRASS COVER, THE AREA WILL BE REWORKED AND ADDITIONAL SEED APPLIED SUFFICIENT TO ESTABLISH THE DESIRED VEGETATIVE COVER.
12. MAINTENANCE: ALL FEATURES OF THE PROJECT DESIGNED AND CONSTRUCTED TO PREVENT EROSION AND SEDIMENT SHALL BE MAINTAINED DURING THE LIFE OF THE CONSTRUCTION SO AS TO FUNCTION AS THEY WERE ORIGINALLY DESIGNED AND CONSTRUCTED.
13. PERMANENT EROSION CONTROL: THE EROSION CONTROL FACILITIES OF THE PROJECT SHOULD BE DESIGNED TO MINIMIZE THE IMPACT ON THE OFFSITE FACILITIES.
14. PERMANENT SEEDING: ALL AREAS WHICH HAVE BEEN DISTURBED BY CONSTRUCTION WILL, AS A MINIMUM, BE SEEDED. THE SEEDING MIX MUST PROVIDE BOTH LONG-TERM VEGETATION AND RAPID GROWTH SEASONAL VEGETATION. SLOPES STEEPER THAN 4:1 SHALL BE SEEDED AND MULCHED OR SODDED.

STRUCTURAL PRACTICES

1. TEMPORARY DIVERSION DIKE:
TEMPORARY DIVERSION DIKES MAY BE USED TO DIVERT RUNOFF THROUGH A SEDIMENT-TRAPPING FACILITY.
2. TEMPORARY SEDIMENT TRAP:
A SEDIMENT TRAP IS USUALLY INSTALLED IN AN DRAINAGEWAY AT A STORM DRAIN INLET OR AT OTHER POINTS OF DISCHARGE FROM A DISTURBED AREA WITH THE FOLLOWING LIMITATIONS:
   A. THE SEDIMENT TRAP MAY BE CONSTRUCTED EITHER INDEPENDENTLY OR IN CONJUNCTION WITH A TEMPORARY DIVERSION DIKE.
3. OUTLET PROTECTION: APPLICABLE TO THE OUTLETS OF ALL PIPES AND PAVED CHANNEL SECTIONS WHERE THE VELOCITY OF FLOW AT DESIGN CAPACITY OF THE OUTLET WILL EXCEED THE PERMISSIBLE VELOCITY OF THE RECEIVING CHANNEL OR AREA.
4. SEDIMENT BASIN: WILL BE CONSTRUCTED AT THE COMMON DRAINAGE LOCATIONS THAT SERVE AN AREA WITH 10 OR MORE DISTURBED ACRES AT ONE TIME, THE PROPOSED STORM WATER PONDS (OR TEMPORARY PONDS) WILL BE CONSTRUCTED FOR USE AS SEDIMENT BASINS. THESE SEDIMENT BASINS MUST PROVIDE A MINIMUM OF 3,600 CUBIC FEET OF STORAGE PER ACRE DRAINED UNTIL FINAL STABILIZATION OF THE SITE. THE 3,600 CUBIC FEET OF STORAGE AREA PER ACRE DRAINED DOES NOT APPLY TO FLOWS FROM OFFSITE AREAS AND FLOWS FROM ONSITE AREAS THAT ARE EITHER UNDISTURBED OR HAVE UNDERGONE FINAL STABILIZATION WHERE SUCH FLOWS ARE DIVERTED AROUND BOTH THE DISTURBED AREA AND THE SEDIMENT BASIN. ANY TEMPORARY SEDIMENT BASINS CONSTRUCTED MUST BE BACKFILLED AND COMPACTED IN ACCORDANCE WITH THE SPECIFICATIONS FOR STRUCTURAL FILL. ALL SEDIMENT COLLECTED IN PERMANENT OR TEMPORARY SEDIMENT TRAPS MUST BE REMOVED UPON FINAL STABILIZATION.

OTHER CONTROLS

WASTE DISPOSAL

WASTE MATERIALS

ALL WASTE MATERIALS EXCEPT LAND CLEARING DEBRIS SHALL BE COLLECTED AND STORED IN A SECURELY LIDDED METAL DUMPSTER. THE DUMPSTER WILL MEET ALL LOCAL AND STATE SOLID WASTE MANAGEMENT REGULATIONS. THE DUMPSTER WILL BE EMPTIED AS NEEDED AND THE TRASH WILL BE HAULED TO A STATE APPROVED LANDFILL. ALL PERSONNEL WILL BE INSTRUCTED REGARDING THE CORRECT PROCEDURE FOR WASTE DISPOSAL. NOTICES STATING THESE PRACTICES WILL BE POSTED AT THE CONSTRUCTION SITE BY THE CONSTRUCTION SUPERINTENDENT, THE INDIVIDUAL WHO MANAGES THE DAY-TO-DAY SITE OPERATIONS, WILL BE RESPONSIBLE FOR SEEING THAT THESE PROCEDURES ARE FOLLOWED.

HAZARDOUS WASTE

ALL HAZARDOUS WASTE MATERIALS WILL BE DISPOSED OF IN THE MANNER SPECIFIED BY LOCAL OR STATE REGULATION OR BY THE MANUFACTURER. SITE PERSONNEL WILL BE INSTRUCTED IN THESE PRACTICES AND THE SITE SUPERINTENDENT, THE INDIVIDUAL WHO MANAGES DAY-TO-DAY SITE OPERATIONS,WILL BE RESPONSIBLE FOR SEEING THAT THESE PRACTICES ARE FOLLOWED.

SANITARY WASTE

ALL SANITARY WASTE WILL BE COLLECTED FROM THE PORTABLE UNITS AS NEEDED TO PREVENT POSSIBLE SPILLAGE. THE WASTE WILL BE COLLECTED AND DISPOSED OF IN ACCORDANCE WITH STATE AND LOCAL WASTE DISPOSAL REGULATIONS FOR SANITARY SEWER OR SEPTIC SYSTEMS.

OFFSITE VEHICLE TRACKING

A STABILIZED CONSTRUCTION ENTRANCE WILL BE PROVIDED TO HELP REDUCE VEHICLE TRACKING OF SEDIMENTS. THE PAVED STREET ADJACENT TO THE SITE ENTRANCE WILL BE SWEPT DAILY TO REMOVE ANY EXCESS MUD, DIRT OR ROCK TRACKED FROM THE SITE. DUMP TRUCKS HAULING MATERIAL FROM THE CONSTRUCTION SITE WILL BE COVERED WITH A TARPAULIN.

INVENTORY FOR POLLUTION PREVENTION PLAN

THE MATERIALS OR SUBSTANCES LISTED BELOW ARE EXPECTED TO BE PRESENT ONSITE DURING CONSTRUCTION:

Concrete, Fertilizers, Wood, Asphalt, Petroleum Based Products, Masonry Blocks, Tar, Cleaning Solvents, Roofing Materials, Detergents, Paints, Metal Studs

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 WILL BE FOLLOWED ONSITE DURING THE CONSTRUCTION PROJECT.

* AN EFFORT WILL BE MADE TO STORE ONLY ENOUGH PRODUCT REQUIRED TO DO THE JOB.
* ALL MATERIALS STORED ONSITE WILL BE STORED IN A NEAT, ORDERLY MANNER IN THEIR APPROPRIATE CONTAINERS AND, IF POSSIBLE, UNDER A ROOF OR OTHER ENCLOSURE.
* PRODUCTS WILL BE KEPT IN THEIR ORIGINAL CONTAINERS WITH THE ORIGINAL MANUFACTURER'S LABEL.
* SUBSTANCES WILL NOT BE MIXED WITH ONE ANOTHER UNLESS RECOMMENDED BY THE MANUFACTURER.
* WHENEVER POSSIBLE, ALL OF A PRODUCT WILL BE USED UP BEFORE DISPOSING OF THE CONTAINER.
* MANUFACTURER'S RECOMMENDATIONS FOR PROPER USE AND DISPOSAL WILL BE FOLLOWED.
* THE SITE SUPERINTENDENT WILL INSPECT DAILY TO ENSURE MATERIALS ONSITE RECEIVE PROPER USE AND DISPOSAL.

HAZARDOUS PRODUCTS

THESE PRACTICES ARE USED TO REDUCE THE RISKS ASSOCIATED WITH HAZARDOUS MATERIALS.

* PRODUCTS WILL BE KEPT IN ORIGINAL CONTAINERS UNLESS THEY ARE NOT RESEALABLE.
* ORIGINAL LABELS AND MATERIAL SAFETY DATA WILL BE RETAINED; THEY CONTAIN IMPORTANT PRODUCT INFORMATION.
* IF SURPLUS PRODUCT MUST BE DISPOSED OF, MANUFACTURER'S OR LOCAL AND STATE RECOMMENDED METHODS FOR PROPER DISPOSAL WILL BE FOLLOWED.

PRODUCT SPECIFIC PRACTICES

THE FOLLOWING PRODUCT SPECIFIC PRACTICES WILL BE FOLLOWED ONSITE:

PETROLEUM PRODUCTS

ALL ONSITE 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 ONSITE WILL BE APPLIED ACCORDING TO THE MANUFACTURER'S 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 AREA. THE CONTENTS OF 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

CONCRETE TRUCKS WILL NOT BE ALLOWED TO WASH OUT OR DISCHARGE SURPLUS CONCRETE OR DRUM WASH WATER ON THE SITE.

SPILL CONTROL PRACTICES

IN ADDITION TO THE GOOD HOUSEKEEPING AND MATERIAL MANAGEMENT PRACTICES DISCUSSED IN THE PREVIOUS SECTIONS OF THIS PLAN, THE FOLLOWING PRACTICES WILL BE FOLLOWED FOR SPILL PREVENTION AND CLEANUP:

MANUFACTURERS' RECOMMENDED METHODS FOR SPILL CLEANUP WILL BE CLEARLY POSTED ON SITE 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 ONSITE. EQUIPMENT AND MATERIALS WILL INCLUDE BUT NOT BE LIMITED TO BROOMS, DUST PANS, MOPS, RAGS, GLOVES, GOGGLES, LIQUID ABSORBENT (i.e. KITTY LITTER OR EQUAL), SAND, SAWDUST, AND PLASTIC AND METAL TRASH CONTAINERS SPECIFICALLY FOR THIS PURPOSE.

ALL SPILLS WILL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY.

THE SPILL AREA WILL BE KEPT WELL VENTILATED AND PERSONNEL WILL WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT INJURY FROM CONTACT WITH A HAZARDOUS SUBSTANCE.

SPILL OF TOXIC OR HAZARDOUS MATERIAL WILL BE REPORTED TO THE APPROPRIATE STATE OR LOCAL GOVERNMENT AGENCY, REGARDLESS OF THE SIZE OF THE SPILL.

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 COORDINATOR. HE/SHE WILL DESIGNATE AT LEAST ONE OTHER SITE 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 IF APPLICABLE, IN THE OFFICE TRAILER ONSITE.

MAINTENANCE/INSPECTION PROCEDURES

EROSION AND SEDIMENT CONTROL INSPECTION AND MAINTENANCE PRACTICES

THE FOLLOWING ARE INSPECTION AND MAINTENANCE PRACTICES THAT WILL BE USED TO MAINTAIN EROSION AND SEDIMENT CONTROLS.

* NO MORE THAN 10 ACRES OF THE SITE WILL BE DENUDED AT ONE TIME WITHOUT WRITTEN PERMISSION FROM THE ENGINEER.
* ALL CONTROL MEASURES WILL BE INSPECTED BY THE SUPERINTENDENT, THE PERSON RESPONSIBLE FOR THE DAY TO DAY SITE OPERATION OR SOMEONE APPOINTED BY THE SUPERINTENDENT, AT LEAST ONCE A WEEK AND FOLLOWING ANY STORM EVENT OF 0.25 INCHES OR GREATER.
* ALL TURBIDITY CONTROL 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 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 THE 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.
* DIVERSION DIKES/SWALES WILL BE INSPECTED AND ANY BREACHES PROMPTLY REPAIRED.
* TEMPORARY AND PERMANENT SEEDING AND PLANTING WILL BE INSPECTED FOR BARE SPOTS, WASHOUTS, AND HEALTHY GROWTH.
* A MAINTENANCE INSPECTION REPORT WILL BE MADE AFTER EACH INSPECTION. A COPY OF THE REPORT FORM SHALL BE COMPLETED BY THE INSPECTOR

THE REPORTS WILL BE KEPT ON SITE DURING CONSTRUCTION AND AVAILABLE UPON REQUEST TO THE OWNER, ENGINEER OR ANY FEDERAL, STATE OR LOCAL AGENCY APPROVING SEDIMENT AND AND EROSION PLANS, OR STORM WATER MANAGEMENT PLANS.
THE REPORTS SHALL BE MADE AND RETAINED AS PART OF THE STORM WATER POLLUTION PREVENTION PLAN FOR AT LEAST THREE YEARS FROM THE DATE THAT THE SITE IS FINALLY STABILIZED AND THE NOTICE OF TERMINATION IS SUBMITTED. THE REPORTS SHALL IDENTIFY ANY INCIDENTS OF NON-COMPLIANCE.

* THE SITE SUPERINTENDENT WILL SELECT UP TO THREE INDIVIDUALS WHO WILL BE RESPONSIBLE FOR INSPECTIONS, MAINTENANCE AND REPAIR ACTIVITIES, AND FILLING OUT THE INSPECTION AND MAINTENANCE REPORT.
* PERSONNEL SELECTED FOR INSPECTION AND MAINTENANCE RESPONSIBILITIES WILL RECEIVE TRAINING FROM THE SITE. SUPERINTENDENT. THEY WILL BE TRAINED IN ALL THE INSPECTION AND MAINTENANCE PRACTICES NECESSARY FOR KEEPING THE EROSION AND SEDIMENT CONTROLS USED ONSITE 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 WATER LINE FLUSHING
* PAVEMENT WASH WATERS (WHERE NO SPILLS OR LEAKS OF TOXIC OR HAZARDOUS MATERIALS HAVE OCCURRED).
* UNCONTAMINATED GROUNDWATER (FROM DEWATERING EXCAVATION). ALL NON-STORM WATER DISCHARGES WILL BE DIRECTED TO THE SEDIMENT BASIN PRIOR TO DISCHARGE.

CONTRACTOR'S CERTIFICATION

I CERTIFY UNDER PENALTY OF LAW THAT I UNDERSTAND THE TERMS AND CONDITIONS OF THE GENERAL NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT THAT AUTHORIZES THE STORM WATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY FROM THE CONSTRUCTION SITE IDENTIFIED AS PART OF THIS CERTIFICATION.

DEWATERING

PRIOR TO ANY DISCHARGE OF GROUND WATER (DEWATERING) FROM CONSTRUCTION ACTIVITIES ASSOCIATED WITH THIS PROJECT TO WATERS OF THE STATE (INCLUDING, BUT NOT LIMITED TO, WETLANDS, SWALES AND MUNICIPAL STORM SEWERS), THE CONTRACTOR SHALL TEST THE EFFLUENT (WATER TO BE DISCHARGED) IN ACCORDANCE WITH RULE 62-621.300(2), F.A.C. IF THE TEST RESULTS ON THE EFFLUENT ARE BELOW THE SCREENING VALUES OF RULE 62-621.300(2), F.A.C., THE CONTRACTOR SHALL SUBMIT A SUMMARY OF THE PROPOSED CONSTRUCTION ACTIVITY AND THE TEST RESULTS TO THE DEPARTMENT OF ENVIRONMENTAL PROTECTION DISTRICT OFFICE, WITHIN ONE (1) WEEK AFTER DISCHARGE BEGINS. THE CONTRACTOR SHALL CONTINUE TO SAMPLE THE EFFLUENT AS REQUIRED THROUGHOUT THE PROJECT AND COMPLY WITH ALL CONDITIONS OF RULE 62-621.300(2), F.A.C. IF THE GROUND WATER EXCEEDS THE SCREENING VALUES OF RULE 62-621.300(2), F.A.C., THE CONTRACTOR SHALL COMPLY WITH OTHER APPLICABLE RULES AND REGULATIONS PRIOR TO DISCHARGE OF THE EFFLUENT (GROUND WATER) TO SURFACE WATERS OF THE STATE.

SIGNATURE	BUSINESS NAME AND ADDRESS OF CONTRACTOR & ALL SUBS	RESPONSIBLE FOR/DUTIES
		GENERAL CONTRACTOR
		SUB-CONTRACTOR
		SUB-CONTRACTOR
		SUB-CONTRACTOR
		SUB-CONTRACTOR

BAKER Design Build
219 N. Newnan Street, 2nd Floor, Jacksonville FL 32202
p 904 356 8520 f 904 559 2678 bakerdesign.build
C.A No. 32489

Kyle F. Davis, P.E.
FL Reg. 63071

REVISIONS

No.	Date	Revision
1	3-23-23	Permit
2	4-12-23	Permit
3	5-8-23	Permit
4	6-15-23	Permit
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Site Development for:

New Berlin Gym

3549 New Berlin Rd
Jacksonville, Florida 32226

Project Number
22-0280

Sheet Name
Stormwater Pollution Prevention Plan

Sheet Number
C8.0

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STORM WATER POLLUTION PREVENTION PLAN

INSPECTION AND MAINTENANCE REPORT FORM

TO BE COMPLETED EVERY 7 DAYS AND WITHIN 24 HOURS OF A RAINFALL EVENT OF 0.25 INCHES OR MORE

INSPECTOR: _____ DATE: _____

INSPECTOR'S QUALIFICATIONS:

_____

DAYS SINCE LAST RAINFALL: _____ AMOUNT OF LAST RAINFALL _____ INCHES

STABILIZATION MEASURES

INSPECTION AREA (DESCRIPTION OF LOCATION)	DATE SINCE LAST DISTURBED	DATE OF NEXT DISTURBANCE	STABLIZED ? (YES/NO)	STABILIZED WITH	CONDITION

STABILIZATION REQUIRED:

_____

TO BE PERFORMED BY: _____ ON OR BEFORE: _____

PAGE 1 OF 4

STORM WATER POLLUTION PREVENTION PLAN

INSPECTION AND MAINTENANCE REPORT FORM

STRUCTURAL CONTROLS

DATE: _____

EARTH DIKES/SWALES

DIKE OR SWALE	FROM	TO	IS DIKE/SWALE STABILIZED ?	IS THERE EVIDENCE OF WASHOUT OR OVERTOPPING

MAINTENANCE REQUIRED FOR EARTH DIKE/SWALE:

_____

TO BE PERFORMED BY: _____ ON OR BEFORE: _____

CATCH BASIN/CURB INLET/OUTFALL TURBIDITY CONTROLS

STRUCTURE/ OUTFALL	ARE TURBIDITY CONTROLS IN PLACE	ANY EVIDENCE OF CLOGING/WASHOUT OR BYPASSING ?	ARE TURBIDITY CONTROLS IN NEED OF REPLACING	DOES SILT NEED TO BE REMOVED FROM AROUND CONTROL

MAINTENANCE REQUIRED FOR CATCH BASIN/CURB INLETS/OUTFALLS TURBIDITY CONTROLS:

_____

TO BE PERFORMED BY: _____ ON OR BEFORE: _____

PAGE 2 OF 4

STORM WATER POLLUTION PREVENTION PLAN

INSPECTION AND MAINTENANCE REPORT FORM

SEDIMENT BASIN

DEPTH OF SEDIMENT IN BASIN	DEPTH OF SEDIMENT SIDE BASIN	ANY EVIDENCE OF OVERTOPPING OF THE EMBANKMENT ?	CONDITION OF OUTFALL FROM SEDIMENT BASIN

MAINTENANCE REQUIRED FOR SEDIMENT BASIN:

_____

TO BE PERFORMED BY: _____ ON OR BEFORE: _____

OTHER CONTROLS

STABILIZED CONSTRUCTION ENTRANCE

DOES MUCH SEDIMENT GET TRACKED ON TO ROAD ?	IS THE GRAVEL CLEAN OR IS IT FILLED WITH SEDIMENT?	DOES ALL TRAFFIC USE THE STABILIZED ENTRANCE TO LEAVE THE SITE ?	IS THE CULVERT BENEATH THE ENTRANCE WORKING? (IF APPLICABLE)

MAINTENANCE REQUIRED FOR STABILIZED CONSTRUCTION ENTRANCE:

_____

TO BE PERFORMED BY: _____ ON OR BEFORE: _____

PAGE 3 OF 4

STORM WATER POLLUTION PREVENTION PLAN

INSPECTION AND MAINTENANCE REPORT FORM

CHANGES REQUIRED TO THE POLLUTION PREVENTION PLAN:

_____

REASONS FOR CHANGES:

_____

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHERED AND EVALUATED THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE 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 KNOWING VIOLATIONS.

SIGNATURE: _____

DATE: _____

PAGE 4 OF 4

NOTE TO CONTRACTOR:

THIS IS THE CONTRACTORS CERTIFICATION REQUIRED BY THE EPA'S NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES) STORM WATER PROGRAM. THIS DOCUMENT MUST BE KEPT ON SITE AT ALL TIMES DURING CONSTRUCTION. THIS SHEET IS INTENDED TO BE COMPLETED WEEKLY AND AFTER EVERY RAINFALL EVENT. IT IS SUGGESTED THAT THIS SHEET BE REMOVED FROM THE PLAN SET AND DUPLICATED AS NEEDED BY THE CONTRACTOR.

Site Development for:

New Berlin Gym

3549 New Berlin Rd
Jacksonville, Florida 32226

No.	Date	Revision
1	3-24-21	Permit
2	5-13-21	Permit
3	5-24-21	Permit
4	9-29-21	Permit

REVISIONS

Kirk P. Dailey, P.E.
FL Reg. 65071

Project Number
22-0280

Sheet Name
Stormwater Pollution Prevention Forms

Sheet Number
C8.1

BAKER Design Build
219 N. Newnan Street, 2nd Floor, Jacksonville FL 32202
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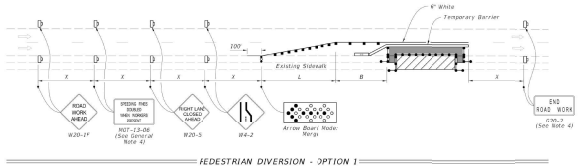
C.A No. 32489



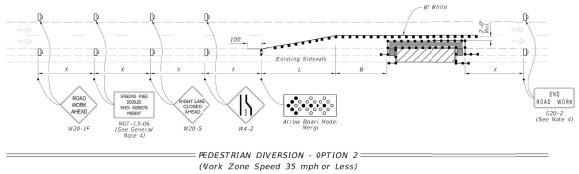
NOTES:

1. L = Taper Length
   B = Buffer Length
   X = Work Zone sign Distance
   See Index 102-600 for "L", "B", "X", channelizing device spacing values.
2. Provide a 5' wide temporary pedestrian way with a maximum cross-slope of 0.02, except where space restrictions warrant a minimum width of 4'. Provide a 5' x 5' passing space for temporary pedestrian ways lessthan 5' in width at intervals not to exceed 200'.
3. When temporary pedestrian ways require curb ramps, meet the requirements of Index 522-002. Detectable warnings are not required for curb ramps diverting pedestrian traffic into a closed lane.
4. The "Speeding Fines Doubled When Workers Present" signs (R07-13-06) and "End Road Work" signs (G20-2), along with associated work zone sign distances, may be omitted when the work operation will be in place for 24 hours or less.
5. Pedestrian Diversion Option 2 may only be used when called for in the Plans or as approved by an Engineer.

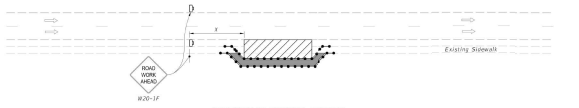
SYMBOLS:

- Work Area
- Temporary Pedestrian Way
- Channelizing Device (See Index 102-600)
- Pedestrian Longitudinal Channelizing Device (LCD)
- Work Zone Sign
- Arrow Board
- Crash Cushion
- Lane Identification and Direction of Traffic

PEDESTRIAN DIVERSION - OPTION 1
(Temporary Barrier Shown, Low Profile Barrier Similar)

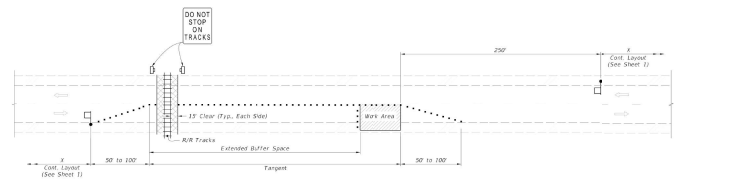


PEDESTRIAN DIVERSION - OPTION 2
(Work Zone Speed 35 mph or Less)

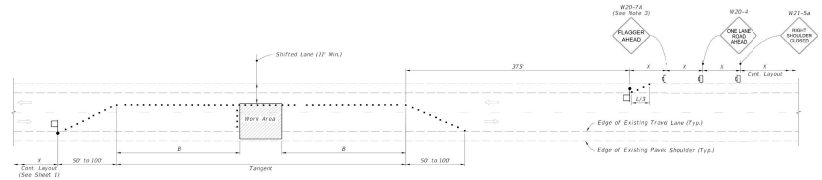


PEDESTRIAN SPECIAL DETOUR

LAST REVISION	DESCRIPTION:				
11/01/21		FDOT FY 2022 23 STANDARD PLANS	SIDEWALK CLOSURE	INDEX 102-660	SHEET 2 of 2



TEMPORARY RAILROAD CROSSING BUFFER SPACE EXTENSION



TEMPORARY LANE SHIFT TO SHOULDER WHEN WORK AREA ENCROACHES ON THE CENTERLINE
(For Work Operations In place 24 Hours or Less)

SYMBOLS:

- Work Area
- Channelizing Device (See Index 102-600)
- Work Zone Sign
- Flagger
- Lane Identification and Direction of Traffic

SPECIAL CONDITIONS

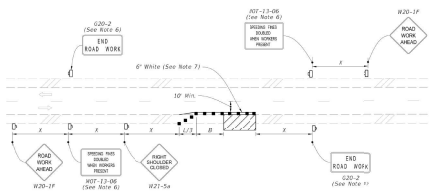
LAST REVISION	DESCRIPTION:				
11/01/21		FDOT FY 2022 23 STANDARD PLANS	TWO-LANE, TWO-WAY WORK WITHIN THE TRAVEL WAY	INDEX 102-603	SHEET 2 of 2

NOTES: (FDOT)

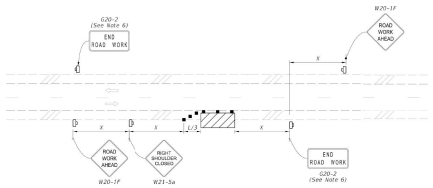
1. NOTIFY THE TRAFFIC ENGINEERING DIVISION (255-7533) A MINIMUM OF 5 WORKING DAYS PRIOR TO IMPLEMENTATION OF THE MOT.
2. THE PROJECT WORK HOURS SHALL BE BETWEEN 7:00 AM AND 7:00 PM ON RESIDENTIAL STREETS AND 9:00 AM AND 4:00 PM ON COLLECTOR OR ARTERIAL STREETS. THERE SHALL BE NO LANE CLOSURE ARE ALLOWED FROM 7:00 AM TO 9:00 AM AND 4:00 PM TO 7:00 PM MONDAY THROUGH FRIDAY.
3. THE CONTRACTOR SHALL CONFIRM THAT EXISTING SIGNAGE WILL NOT POSE A CONFLICT FOR WORK ZONE TRAFFIC CONTROL. THE CONTRACTOR SHALL COVER OR REMOVE ALL SIGNING IN CONFLICT WITH THE TRAFFIC CONTROL DURING CONSTRUCTION OPERATIONS.
4. ACCESS TO SIDE STREETS, PRIVATE AND COMMERCIAL DRIVEWAYS SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION.
5. THIS REVIEW APPROVAL IS FOR CITY OF JACKSONVILLE MAINTAINED RIGHT OF WAY ONLY.

NOTE:

1. This index applies to Two-Lane, Two-Way and Multilane Roadways, including Medians of divided roadways, with work on the shoulder.
2. L = Taper Length
   X = Work Zone Sign Spacing
   B = Buffer Length
   See Index 102-600 for "L", "X", "B", and channelizing device spacing values.
3. Where work activities are between 2' and 15' from the edge of traveled way, the Engineer may omit signs and channelizing devices for work operations 60 minutes or less.
4. When four or more work vehicles enter the through traffic lanes in a one hour period (excluding establishing and terminating the work area), use a flagger or lane closure to accommodate work vehicle ingress and egress.
5. For work less than 2' from the traveled way and work zone speed is greater than 45 MPH, use a lane closure.
6. The "Speeding Fines Doubled When Workers Present" signs (R07-13-06) and "End Road Work" Signs (G20-2) along with the associated work zone sign distances may be omitted when the work operation is in place for 24 hours or less.
7. Temporary pavement markings may be omitted when the work operation is in place for 3 days or less.
8. Omit "Shoulder Closed" signs (W21-5a) along with associated work zone sign spacing distances for work on the median.
9. When there is no paved shoulder, the "Worker" sign (W21-1) may be used instead of the "Shoulder Closed" sign (W21-5a).



TWO-LANE ROADWAY
SHOULDER WORK LESS THAN 2' FROM THE TRAVELED WAY
WITH WORK ZONE SPEED OF 45 MPH OR LESS

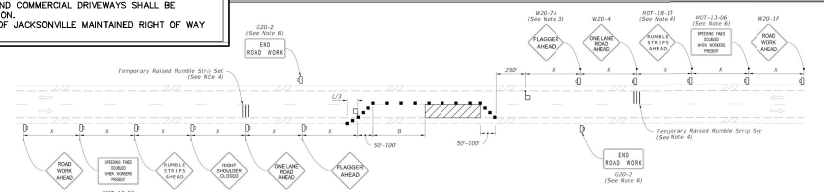


TWO-LANE ROADWAY
SHOULDER WORK BETWEEN 2' AND 15' FROM THE TRAVELED WAY

SYMBOLS:

- Work Area
- Channelizing Device (See Index 102-600)
- Work Zone Sign
- Lane Identification and Direction of Traffic

LAST REVISION	DESCRIPTION:				
11/01/21		FDOT FY 2022 23 STANDARD PLANS	TWO-LANE AND MULTILANE, WORK ON SHOULDER	INDEX 102-602	SHEET 1 of 2



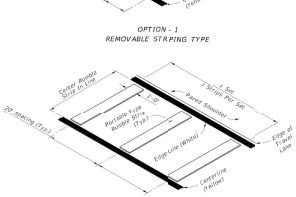
NOTES:

1. This Index applies to Two-Lane, Two-Way Roadways with work within the traveled way.
2. L = Taper Length
   B = Buffer Length
   X = Work Zone Sign Spacing
   See Index 102-600 for "L", "T", "X" and channelizing device spacing values.
3. Optionally, use "Flagger Ahead" sign with symbol (W20-7) instead of "Flagger Ahead" sign with text (W20-7A).
4. Use temporary raised rumble strips when the existing posted speed is 55 mph or greater and the work duration is greater than 60 minutes. If temporary raised rumble strips are not used, omit "Rumble Strips Ahead" signs (R07-18-10) and associated work zone sign spacing.
5. Additional one-way control may be provided by the following means:
   a. Flag-carrying vehicle
   b. Official vehicle
   c. Pilot vehicles
   d. Traffic signals

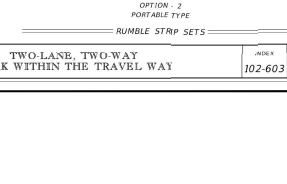
   When flaggers are the sole means of one-way control, the flaggers must be in sight of each other or in direct communication at all times.
6. The "Speeding Fines Doubled When Workers Present" signs (R07-13-06) and "End Road Work" signs (G20-2), along with associated work zone sign spacing, may be omitted when the work operation will be in place for 24 hours or less.
7. Automated Flagger Assistance Devices (AFADs) may be used in accordance with Specification Sections 102, 990 and the APL vendor drawings.
8. Railroad Crossings:
   a. If an active railroad crossing is located closer to the Work Area than the queue length plus 300 feet, extend the Buffer Space as shown on Sheet 2.
   b. If the queuing of vehicles across an active railroad crossing cannot be avoided, provide a uniformed traffic control officer or flagger at the highway-rail grade crossing to prevent vehicles from stopping within the highway-rail grade crossing, even if automatic train warning devices are in place.

SYMBOLS:

- Work Area
- Channelizing Device (See Index 102-600)
- Work Zone Sign
- Flagger
- Lane Identification and Direction of Traffic



OPTION - 1
REMOVABLE STRIPING TYPE



OPTION - 2
PORTABLE TYPE

RUMBLE STRIP SETS

LAST REVISION	DESCRIPTION:				
11/01/21		FDOT FY 2022 23 STANDARD PLANS	TWO-LANE, TWO-WAY WORK WITHIN THE TRAVEL WAY	INDEX 102-603	SHEET 1 of 2

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C.A No. 32489

Kyle F. Davis, P.E.
FL Reg. 63071

REVISIONS

No.	Date	Revision
1	3-23-23	Permit
2	4-13-23	Permit
3	6-6-23	Permit
4	6-15-23	Permit
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Site Development for:

New Berlin Gym

3549 New Berlin Rd
Jacksonville, Florida 32226

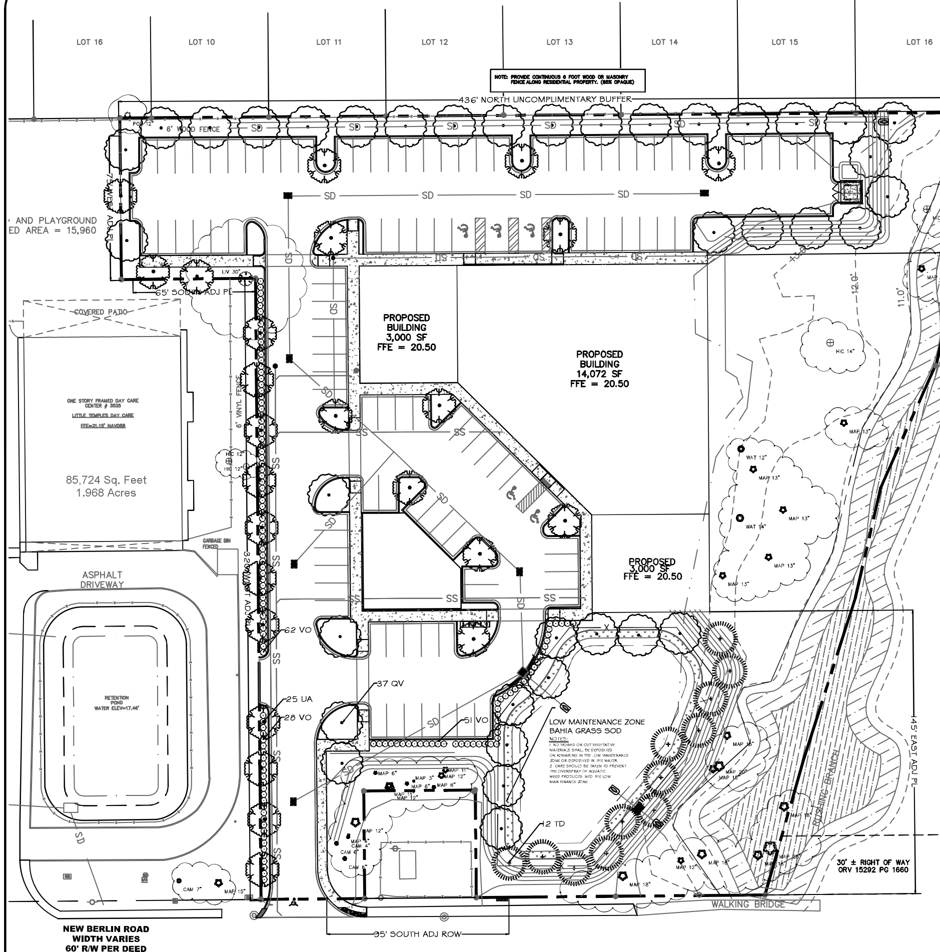
Project Number
22-0280

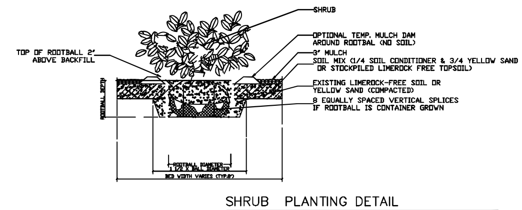
Sheet Name

Maintenance of Traffic Plan

Sheet Number

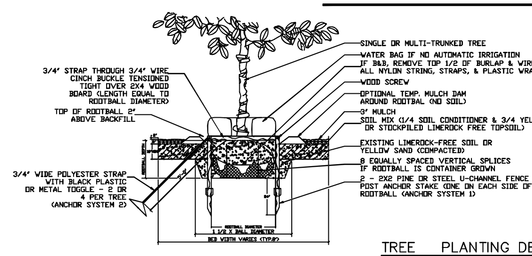
C9.0





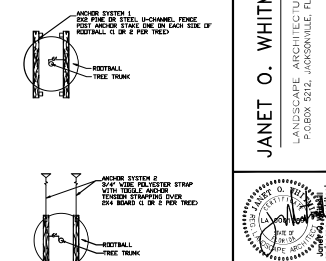
SHRUB PLANTING DETAIL

NOT TO SCALE



TREE PLANTING DETAIL

NOT TO SCALE



LANDSCAPE REQUIREMENTS

PROPERTY	FRONTAGE/ AREA	GREEN AREA REQUIRED SF	GREEN AREA PROV'D SF	TREES REQ'D / SHADE REQ'D	SHRUBS REQ'D
INTERIOR VUA 10%	40,090 SF	4000	4000	10	
4000 x .25 = 1000/9				1/ 4000	110
STREET FRONTAGE 10'					
SOUTH	95 LF	950	950	2	
95 x .75 = 71/3				1/ 50	25
ADJACENT PROPERTY					
SOUTH 5'	65 LF	325	325	2	
WEST 5'	405 LF	2025	2025	8	
EAST 5'	217 LF	1085	1085	4	
				1/ 50	
NORTH-RESIDENTIAL	436 LF	4360	4360	18	FENCE
				1/ 25	
TOTAL		7300	7300	40/20	135

PLANT LIST

QTY	SYM		DESCRIPTION	SIZE	SPACING	INCHES	NOTES*	TOTAL
37	⊙	QV	QUERCUS VIRGINIANA "CATHEDRAL LIVE OAK"	14'-16' X 7'-9', 6" CAL., 6' CT, MATCHED	AS SHOWN	6	N, FYN, FF, WW	222
12	⊙	TD	TAXODIUM DISTICUM "BALD CYPRESS"	14'-16' x 5-6', 6" CAL., 4'CT, MATCHED	AS SHOWN	6	N, FYN, FF, WW	72
25	⊙	UA	ULMUS ALATA "WINGED ELM"	14'-16' X 7'-9', 4.5" CAL., 6' CT, MATCHED	AS SHOWN	4.5	N, FYN, FF, WW	112
74							TOTAL	406
141	⊙	VO	VIBURNUM OBOVATUM "WALTER'S VIBURNUM"	24" x 24", FULL, MATCHED	36" OC.		N, FYN, FF, WW	

SOD PASPALUM NOTATUM "ARGENTINE BAHIA" - TSA FREE (WEED FREE)
SOD ALL 4:1 SLOPES OR GREATER, 10' FROM EOP AND ALL DISTURBED ROW. COORDINATE FURTHER GRASSING WITH GENERAL CONTRACTOR
SELECTED SOD SPECIES MEETS ALL CURRENT LANDSCAPE AND IRRIGATION REQUIREMENTS. ANY VARIABLE WILL REQUIRE GOVERNMENT APPROVAL

*PLANT LIST LEGEND: N-NATIVE, FYN- FLORIDA YARDS & NEIGHBORHOODS 2006, FF- FLORIDA FRIENDLY, WW- WATER WISE 2008,
OHE - JEA OVERHEAD ELECTRIC (ACCEPTABLE PLANT LIST)

48 HOURS BEFORE YOU DIG CALL SUNSHINE 1-800-432-4770 IT'S THE LAW IN FLORIDA

PLANTING NOTES

1. The LANDSCAPE CONTRACTOR is responsible for verifying project site conditions and all quantities indicated on these plans before commencing any work. LANDSCAPE CONTRACTOR shall notify the LANDSCAPE ARCHITECT if soil conditions are poorly drained to determine is substitution of materials is necessary.
2. Soil tests shall be provided to evaluate various areas of the landscape (especially the parking lot islands) for pH, available nutrients, phosphorus content, bulk density, etc. This will serve to ensure proper plant selection according to prevailing soil conditions, what lime/sulphur applications are needed (if any) and long-term survival of plant material.
3. All plant material shall be Florida Grade No. 1 or better nursery grown in accordance to Florida Grades and Standards handbook.
4. All plant material shall be container grown or B&B. B&B materials shall be "hardened off" root pruned during field production and shall be dug at least several weeks before planting is performed.
5. Plants shall be sound, healthy and vigorous, well branched and densely foliated when in leaf. They shall be free of disease, insects, eggs or larvae and shall have healthy, well developed root systems. They shall be free from physical damage or adverse conditions that would prevent thriving growth.
6. All plants shall conform to the varieties indicated in the plant list.
7. Substitution of plant materials will not be permitted unless authorized in writing by the LANDSCAPE ARCHITECT. If proof is submitted that any plant specified in not obtainable, a proposal will be considered for use of the nearest equivalent size or variety with corresponding adjustment of contract price.
8. Plant material locations and bed outlines shall be staked or flagged on site by the CONTRACTOR and shall be adjusted if required to fit actual as-built conditions on site and approved by the owner or owners representative.
9. All proposed tree planting locations shall be staked or flagged before installation by the LANDSCAPE ARCHITECT and approved by the owner or owners representative.
10. The CONTRACTOR shall estimate the depth of the planting hole by measuring the distance between the point where the topmost root emerges from the trunk and the bottom of the root ball. The planting hole shall be slightly shallower than this distance. No more than 2 to 3 inches of the root ball needs to be above the soil unless the site is poorly drained. Poorly drained soil requires planting depths even or higher. Planting holes dug too deep are required to have soil added to the bottom and loosely compacted. If planting holes should fill with water as it is dug, position the bottom of the root ball above the water and mound soil to cover the sides of the ball. The hole shall be at least 1.5 times the diameter of the root ball. Wider holes shall be used for compacted soil and wet sites.
11. The soil shall be freshly tilled and large clods of soil broken up. The growing medium shall be settled and firm at the time of herbicide application. Herbicides may be mechanically incorporated by mixing into top layer at a depth of 1-3 inches.
12. All backfill around plant material shall be worked firmly by slicing a shovel down into the backfill 20 to 30 times around the tree as you add backfill soil. Large clumps shall be broken up. Do not pack the backfill. Only step firmly on backfill soil to stabilize the root ball. The top of the root ball shall remain 1 inch (small trees) to 3 inches (large trees) or approximately 10% above grade. Do not over-pack the loosened soil when wet. Add 10 to 20 gallons of water to the rootball and backfill. Fill in any holes or depressions with backfill soil. Do not attempt to eliminate air pockets by compaction. Water infiltrating the backfill soil will eliminate large air pockets.
13. LANDSCAPE CONTRACTOR shall bear final responsibility for proper surface drainage of planted areas. Any discrepancy in the drawings, obstruction on the site, or prior to work done by any other party, which the CONTRACTOR feels precludes establishing proper drainage shall be brought to the attention of the LANDSCAPE ARCHITECT for correction or relief of said responsibility.
14. When planting on slopes, set tree so top-most root in the ball on the uphill side is even with the soil. The side of the root ball on the downhill side will be well above the surrounding soil. Soil shall cover the sides of the root ball. Mulch shall cover the edge of the rootball and not piled on top.
15. Planting beds shall be cut or edged to form a uniform clean line between beds and lawn areas.
16. After all plant material in a plant bed area has been installed and approved, the areas between plants shall be raked to an even grade to conform to premulching finish grades. All planting beds and plant saucers shall then be uniformly covered with a minimum depth of three (3) inches of #2 grade or better of mini pine bark nuggets with a maximum diameter of two (2) inches. Contractor to provide a sample prior to installation.
17. Before fertilization a soil and/or foliar nutrient analysis shall be performed to determine whether phosphorus fertilizer with 30% slow release nitrogen will be required. All planting bed areas shall be fertilized approximately 4-6 weeks after installation.
18. Plant material soil shall be "native" soil that was removed from the planting hole. If soil is badly contaminated, good quality soil shall be used as replacement after contaminated soil has been completely removed from planting area.
19. After sodding is completed, the entire side areas shall be watered by hand or irrigation system each day for two weeks. After approximately one month of installation, sodded areas shall then be top dressed with a 15-0-15 commercial slow-release fertilizer at a rate of 6.67 pounds per 1,000 square feet of area in an evenly broad-case pattern.
20. The LANDSCAPE CONTRACTOR is responsible for all fine grading preparation for planting. Apply pre-emergent to all beds prior to planting.
21. Rough grades will be established by the owners general contractor at approximately 3 inches below curbs, sidewalks, hardscape amenities, mowing strips and abutments. All materials shall be a minumim 30" from buildings or walks.
22. CONTRACTOR shall coordinate construction of planting areas with installation of irrigation system.
23. Where seeding may be required on the plans, germination rate shall be the maximum percentage required for the variety specified at the rate of application specified.
24. Sod areas shall be SPECIFIED Grass. Grass for sodding shall be freshly cut in squares one foot wide by two feet long. Sod shall be healthy, free of insects and weeds, in naturally flourishing conditions. Dry, brown and unfresh sod will be rejected.
25. Sod shall be laid end to end and side to side in a staggered line to form a uniform layer. All uneven edges shall be squarely trimmed to allow close and firm fitting of each piece.
26. After sodding is completed, the entire sod areas shall be watered by hand or irrigation system each day for two weeks. Sodded areas shall then be top dressed with a commercial fertilizer as directed herein at the rate of 12 pounds per 1000 square feet of area in an evenly broad case pattern.
27. The LANDSCAPE CONTRACTOR is responsible for fully maintaining all plant material on site during and before planting, until the work in accepted by the LANDSCAPE ARCHITECT and/or owner. The LANDSCAPE CONTRACTOR is responsible for removing tree stakes after tree is established.
28. All plants shall be guaranteed by the LANDSCAPE CONTRACTOR to be healthy plants and in flourishing condition of active growth for ninety (90) days from final inspection and acceptance. All trees shall be guaranteed an additional one year from final inspection and acceptance.
29. The LANDSCAPE ARCHITECT, owner or owners representative shall have the right to reject any and all work which in his opinion does not meet with the requirements of the specifications at any stage of the project operation.
30. In general, the work shall proceed as rapidly as the site becomes available. Keep all areas of work clean, neat, and orderly at all times.
31. There will be special care to all existing trees to be retained on site to avoid construction damage.
32. An automatic irrigation system is to be provided and a shop drawing of the layout and design must be submitted to the governmental agency, for review and approval, prior to installation.
33. Irrigation system shall be fully automatic, providing 100% coverage to all planting areas, with all pop up heads in lawn area.
34. Irrigation station shall be set where there will be no mixing of shrub and lawn areas, fixed spray heads with gear driven heads or impacts. Shrub risers shall be minimum 2.5' from eop and all heads minimum 2' from buildings.
35. A double check backflow prevention (or approved equal); equal to a DCA-100; to be mounted in a rectangular valve box (12"x 10") on the service side of the meter and immediately adjacent to the water meter.
36. After the landscape plan is approved by the governmental agency any subsequent changes must be resubmitted for review and approval.
37. Shade trees shall be planted minimum 4' from EOP and 15' from OHE.
38. Do not plant trees below Normal Water Line (NWL) see civil drawings. Sod all 4:1 or greater slopes. Seed all other disturbed areas.

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Janet O. Whitmill Landscape Architect FL 00001289
05.19.2023

NEW BERLIN GYM
NEW HEADQUARTERS
JACKSONVILLE, FLORIDA

LANDSCAPE PLAN
04.12.2023

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REV.	DATE	DESCRIPTION
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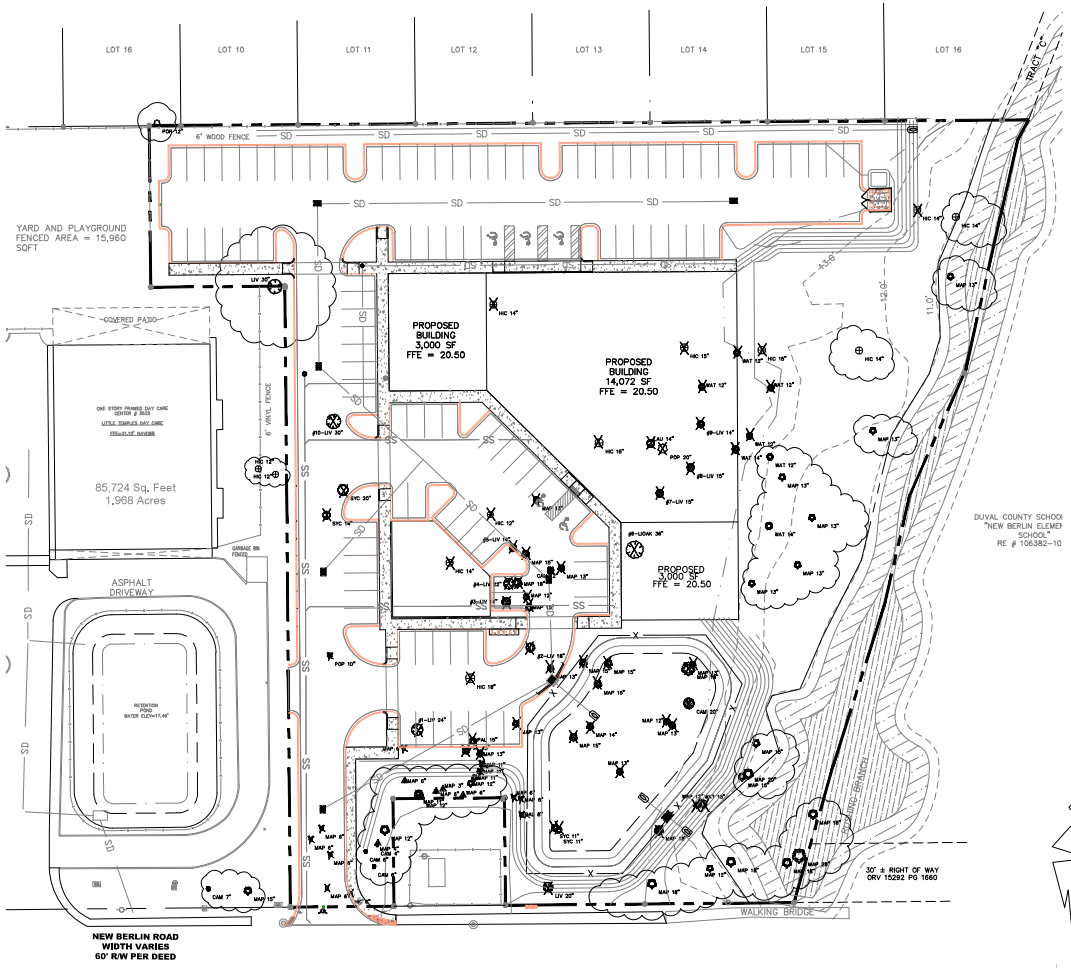


TREES TO BE REMOVED			
TREE QTY	TREE SPECIES	SIZE (INCHES)	SUBTOTAL (INCHES)
2	SYC	11	22
1	HIC	6	6
1	MAP	6	6
			34
2	PALMS	15	30
			30
1	POP	20	20
4	WAT	12	48
1	WAT	14	14
1	WAT	15	15
1	LAU	14	14
1	SYC	14	14
1	SYC	20	20
1	HIC	12	12
3	HIC	14	42
2	HIC	15	30
1	HIC	16	16
1	HIC	18	18
3	MAP	12	36
8	MAP	13	104
1	MAP	14	14
6	MAP	15	90
3	MAP	18	54
			561
3	LIV	14	42
2	LIV	15	30
1	LIV	18	18
1	LIV	20	20
1	LIV	22	22
1	LIV	24	24
1	LIV	30	30
1	LIV	36	36
TOTAL			222

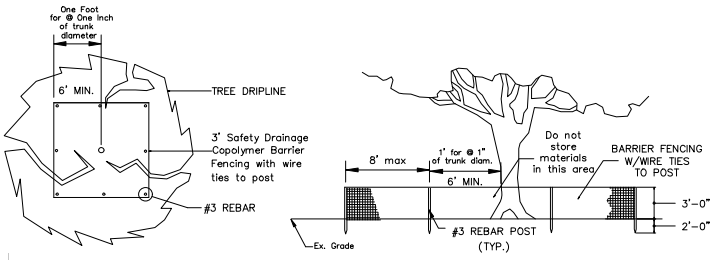
TREES TO BE REMOVED – MITIGATION SUMMARY					
PROTECTED TREES REMOVED	PERMIT INCHES REMOVED	MITIGATION RATIO	MITIGATION REQUIRED	PERMIT TREE CREDITS	PERMIT REPLACEMENT TREES
HARDWOOD TREES 6" TO 11.5" (C)	34	1:3	11	0	0
HARDWOOD TREES 11.5" TO 23.5" (C)	561	1:3	187	25	184
LIVE OAKS (O)	222	1:1	222	0	222
SABAL PALMS (C)	30	1:3	10	0	0
TOTAL			430	25	406

LEGEND

- 8"DBH TREE CREDIT
- 20"DBH NON-PROTECTED TREE TO BE REMOVED
- 14"DBH TREE TO BE REMOVED
- 10"DBH TREE TO BE PRESERVED W/ BARRICADE
- 10"DBH DISEASED TREE PER DAVID HART CERTIFIED ARBORIST #FL-6059A TO BE REMOVED WITHOUT MITIGATION

SURVEY TREE LEGEND	
ABR	SPECIES
MAP	MAPLE
LIV	LIVEOAK
SYC	SYCAMORE
WAT	WATEROAK
LAU	LAURELOAK
hIC	HICORY
POP	POPLAR

TREE CREDITS			
TREE QTY	TREE SPECIES	SIZE (INCHES)	SUBTOTAL (INCHES)
1	MAP	3	3
1	MAP	4	4
3	MAP	6	18
			25



PLAN VIEW

ELEVATION

TREE PROTECTION FENCING DETAIL

NOT TO SCALE

THE TREE PROTECTION BARRICADE SHALL BE AT LEAST THREE (3) FEET HIGH. THE BARRIER SHALL CONSIST OF EITHER WOOD FENCE WITH 2X4 POSTS PLACED A MAXIMUM EIGHT (8) FEET APART, WITH A 2X4 MINIMUM TOPRAIL, OR A TEMPORARY WIRE MESH FENCE, OR OTHER SIMILAR BARRIER WHICH WILL LIMIT ACCESS TO PROTECTED AREA.

THE BARRICADE SHALL BE AT LEAST ONE FOOT IN DIAMETER FOR EACH INCH OF TRUNK DIAMETER. FOR TREES LESS THAN 12" DBH, THE MIMINUM BARRICADE SHALL BE PLACED AT LEAST SIX (6) FEET AWAY FROM THE BASE OF THE TREE.

TREE BARRICADE APPROVAL: OBTAIN CITY APPROVAL OF TREE BARRICADES BEFORE BEGINNING CLEARING OPERATIONS OR ANY SITE DEVELOPMENT.

- My inspection took place on 4/6/2023. Specifically looked for during the site inspection were trees that are "dead or deteriorated as a result of age, insects, disease, storm, fire, lightning or other acts of nature" (as specified in Part 12, Subpart B, Sec. 656.1206 (g) (1) of the Jacksonville, Florida Code of Ordinances). The inspection was a ground-based visual inspection that was limited to deteriorations that can be seen while standing on the ground. There may be deteriorations below ground, in a tree's interior, or in the canopy that were not visible from this perspective. These hidden deteriorations may result in the failure of branches, trunks, roots, or entire trees.
- Only trees shown on the tree survey in green print and one added tree were inspected. No other trees on this property were inspected other than those specifically addressed in this report.
- Locations of added tree and moved trees are approximated.
- Having comments or no comments neither implies nor provides guarantee of future health or performance of trees.

Tree Number	Common Name	Species Name	DBH in inches	D# (orange flag)	Notes
1	Live Oak	Quercus virginiana	24		
2	Live Oak	Quercus virginiana	18		
3	Live Oak	Quercus virginiana	14		
4	Live Oak	Quercus virginiana	22		
5	Live Oak	Quercus virginiana	14		
6	Live Oak	Quercus virginiana	36		Losing some bark/abnormal growth ~2'-6' up on one side, not enough tp recommend exempting.
7	Live Oak	Quercus virginiana	15		Move tree location as shown on map.
8	Live Oak	Quercus virginiana	15		Move tree location as shown on map.
9	Live Oak	Quercus virginiana	14		
10	Live Oak	Quercus virginiana	30		

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JANET O. WHITMILL, R.L.A. LICENSED LANDSCAPE ARCHITECT FL 00001259 05.19.2023

NEW BERLIN GYM
NEW HEADQUARTERS
JACKSONVILLE, FLORIDA

TREE MITIGATION PLAN

04.12.2023

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REV.	DATE	DESCRIPTION
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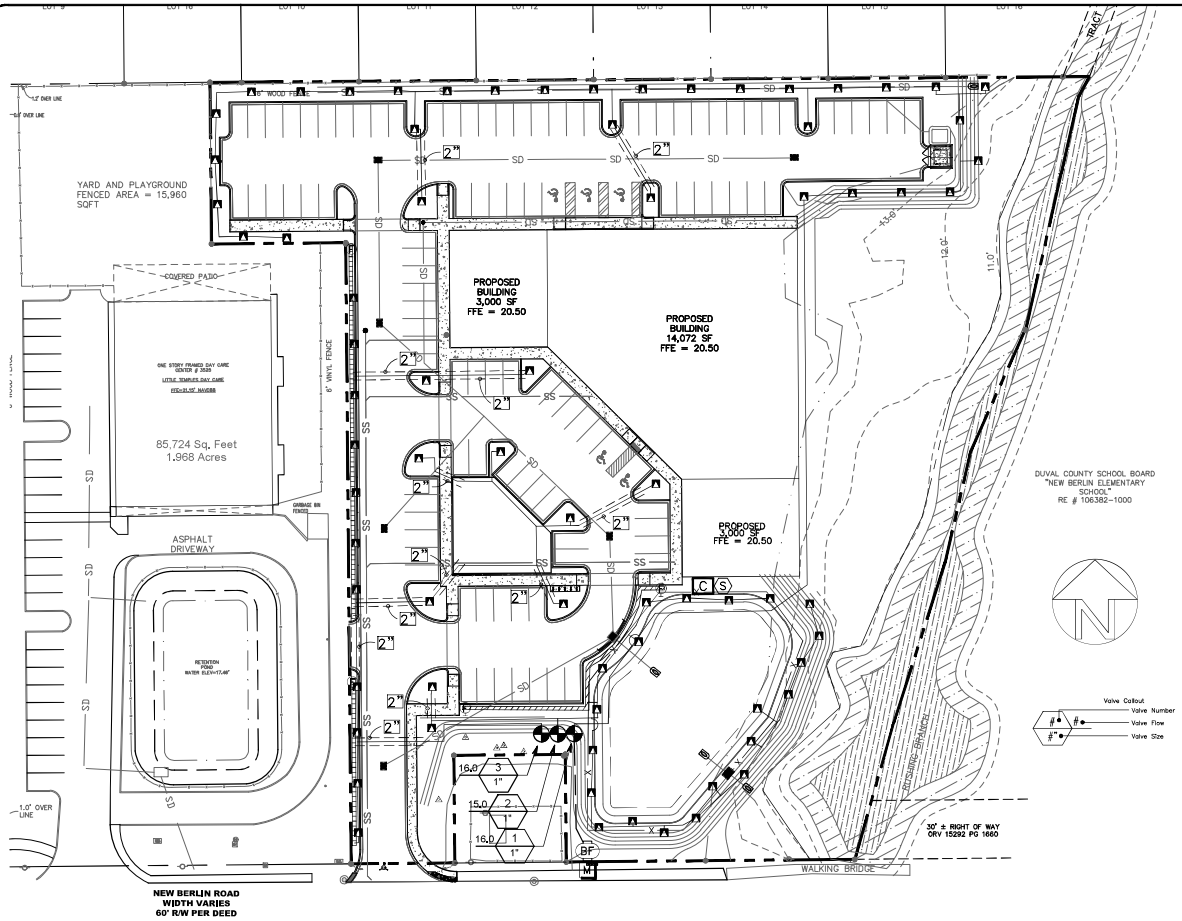

IRRIGATION_SCHEDULE

SYMBOL	MANUFACTURER/MODEL	QTY	ARC	PSI	GPM	RADIUS
	Two Rain Bird 1401 bubbler	74 x2	360	30	2 x.25	3'

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
	Rain Bird 1812 with GPM Irrigation Products GDPN	4
	Area to Receive Dripline Rain Bird XFD-1-10-12 In-Line Pressure Compensating Landscape Dripline with Built-In Check Valve. 1.0GPH emitters at 12.0" O.C. Dripline laterals spaced at 16.0" apart, with emitters offset for triangular pattern. Install dripline on both sides of plant material.	800 s.f.

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
	Rain Bird PEB 100HVF in a 10" Valve Box. Install a Toro PMR pressure regulator and T-ALF51015-S filter prior to valve group.	3
BF	Zurn 975XL 1" Reduced Pressure Backflow device	1
C	Rain Bird ESP4Me 4 Station Controller	1
S	Rain Bird RSD Rain Sensor	1
M	Water Meter 3/4" (see civil plans)	1
	Irrigation Lateral Line: PVC Class 160	2,500 l.f.
	Irrigation Mainline: PVC Class 200 1-1/4"	80 l.f.
	Pipe Sleeve: PVC Schedule 40	

WATERING SCHEDULE

ZONE	GPM	WATER USE	PRECIP. RATE	MAR (2ND SUNDAY) - NOV (1ST SUNDAY) DAYS - MINUTES	NOV (1ST SUNDAY) - MAR (2ND SUNDAY) DAYS - MINUTES
1	16.0	LOW	1.1"/hr	TUES / F - 40 MIN	TUES - 40 MIN
2	15.0	LOW	1.1"/hr	TUES / F - 40 MIN	TUES - 40 MIN
3	16.0	LOW	1.1"/hr	TUES / F - 40 MIN	TUES - 40 MIN

AVERAGE GALLONS PER DAY: 154

ALL IRRIGATION IS LOW WATER USE

NO WATERING TO TAKE PLACE BETWEEN THE HOURS OF 10:00AM - 4:00PM

SEE BULLETIN L-01-09 REGARDING ADDITIONAL REVIEW FOR REVISING HOSEBIB PLAN TO IRRIGATION PLAN

JANET O. WHITMILL, R.L.A., INC.
LANDSCAPE ARCHITECTURE * PLANNING
P.O.BOX 5212, JACKSONVILLE, FL. 32247 (904) 398-7688

05.19.2023

Landscape Architect FL 0000129

NEW BERLIN GYM
NEW HEADQUARTERS
JACKSONVILLE, FLORIDA

IRRIGATION PLAN

04.12.2023

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REV.	DATE	DESCRIPTION
1	05.19.2023	COJ 1.0 SET COMMENTS

JOB NO.	13623
DRAWN:	DHM
CHECKED:	JOW
SCALE:	1:30

IR-1
DRAWING NO.

UNDERGROUND IRRIGATION SPECIFICATIONS

1.0 GENERAL

1.1 SUMMARY: Includes but not limited to:
A. Furnishing and installing sprinkler system as described in Contract Documents complete with accessories necessary for proper functioning.

1.2 SYSTEM DESCRIPTION:
A. Design Requirements:
1. Layout of Irrigation Heads:
a. Location of heads shown on Drawings is approximate. Actual placement may vary slightly as is required to achieve full, even coverage without spraying onto buildings, sidewalks, fences, etc.

1.3 QUALITY ASSURANCE:
A. Regulatory Requirements:
1. Work and materials shall be in accordance with latest rules and regulations, and other applicable state or local laws. Nothing in Contract Documents is to be construed to permit work not conforming to these codes.
B. Pre-Installation Conference:
1. Meet with Owner and Landscape Architect to discuss and clarify all aspects of job requirements prior to commencing work of this Section.
C. System Adjustments:
1. Minor adjustments in system will be permitted to avoid existing fixed obstructions.
2. Mainline, laterals, and valves are shown for clarity purposes only. All irrigation equipment to be with landscape area. Mainline, laterals and valves to be installed as far away from existing and new specimen trees as possible.
D. 1. Documentation and submittal of actual water supply performance prior to commencing installation.

1.4 SUBMITTALS:
A. Record Drawings:
1. Prepare an accurate as-built drawing as installation proceeds to be submitted prior to final inspection. Drawing shall include:
a. Detail and dimension changes made during construction.
b. Significant details and dimensions not shown in original Bidding Documents.
2. Maintain, at job site, one copy of Contract Documents (as defined in General Conditions) and relevant shop drawings.
3. Clearly mark each document "PROJECT RECORD COPY" and maintain in good condition for use of the Landscape Architect and Owner.
4. As-built drawing shall be clearly drawn.
5. Submit product literature for all sprinklers, valves, pipe, wire, wire connectors and controller.
6. Final payment for system will not be authorized until accurate and complete submittals are delivered to the Landscape Architect.
B. Instruction Manual:
1. Provide instruction manual which lists complete instructions for system operation and maintenance.

1.5 PRODUCT STORAGE:
A. During construction and storage, protect materials from damage and prolonged exposure to sunlight.

1.6 WARRANTY:
A. Standard one (1) year warranty stipulated in General Conditions shall include:
1. Completed system including parts and labor.
2. Filling and repairing depressions and replacing plantings due to settlement of irrigation trenches for one (1) year following final acceptance.
3. System adjustment to supply proper coverage to areas to receive water.

1.7 MAINTENANCE:
A. Extra Materials:
1. In addition to installed system, furnish Owner with the following items at close-out:
a. Two sprinkler head bodies of each size and type.
b. Two nozzles for each size and type.
c. Two adjusting keys for each sprinkler head cover type.

2.0 PRODUCTS:

2.1 PIPE, PIPE FITTINGS, AND CONNECTIONS:
A. Pipe shall be continuously and permanently marked with Manufacturer's name, size, schedule, type, and working pressure.
B. Pipe:
1. Pressure Lines: as indicated on plans.
2. Lateral Lines: as indicated on plans.
3. Risers: sch. 80 PVC, gray
C. Fittings:
1. Schedule 40 PVC.
D. Sleeving:
1. Schedule 40 PVC.

2.2 SPRINKLER HEADS:
A. Conform to requirements shown on Drawings as to type, radius of throw, pressure, and discharge.

2.3 AUTOMATIC SPRINKLER SYSTEM:
A. Control valves shall be of size and type indicated on Drawings.
B. Control wire shall be UL listed, color coded copper conductor direct burial size 14. Use 3M-DBY waterproof wire connectors at splices and locate all splices within valve boxes. Use white or gray color for common wire and other colors for all other wire.
C. Install two spare wires from controller with entire mainline.

2.4 VALVES:
A. Electric Valves:
1. Make and model shown on Drawings.
B. Automatic Controller:
1. Make and model shown on Drawings.

2.5 VALVE ACCESSORIES:
A. Valve Boxes:
1. Ametek or Brooks heavy duty valve box with locking lid or Landscape Architect approved equal.
2. Do not install more than one (1) valve in a single box.
3. Valve boxes shall be large enough for easy removal or maintenance of valves.

3.0 EXECUTION:

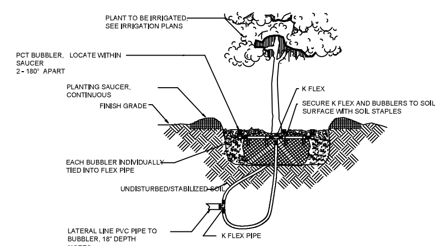
3.1 PREPARATION:
A. Protection:
1. Work of others damaged by this Section during course of its work shall be replaced or repaired by original installer at this Section's expense.

3.2 INSTALLATION:
A. Trenching and Backfilling:
1. Over-excavate trenches by two (2") inches and bring back to indicated depth by filling with fine, rock-free soil or sand.
2. Cover pipe both top and sides with two (2") inches of material specified in paragraph above. In no case shall there be less than two (2") inches of rock-free soil or sand surrounding pipe.
B. Installation of Plastic Pipe:
1. Install plastic pipe in a manner to provide for expansion and contraction as recommended by Manufacturer.
2. Unless otherwise indicated on Drawings, install main lines with a minimum cover of eighteen (18") inches based on finish grade. Install lateral lines with a minimum cover of twelve (12") inches based on finish grade
3. Locate no sprinkler head closer than twelve (12") inches from building foundation. Heads immediately adjacent to mowing strips, walks or curbs shall be one (1") inch below top of mowing strip, walk or curb and have a minimum of one (1") inch clearance between head and mowing strip, walk or curb.
4. Drawings show arrangement of piping. Should local conditions necessitate rearrangement, obtain approval of Landscape Architect prior to proceeding with work.
5. Cut plastic pipe square. Remove burrs at cut ends prior to installation so unobstructed flow will result.
6. Make solvent weld joints in the following manner:
a. Clean mating pipe and fitting with clean, dry cloth and apply one (1) coat of P-70 primer to each.
b. Apply uniform coat of 711 solvent to outside of pipe.
c. Apply solvent to fitting in similar manner.
d. Reapply a light coat of solvent to pipe and quickly insert into fitting.
e. Give pipe or fitting a quarter turn to insure even distribution of solvent and make sure pipe is inserted to full depth of fitting socket.
f. Hold in position for fifteen (15) seconds minimum or long enough to secure joint.
g. Wipe off solvent appearing on outer shoulder of fitting.
h. Do not use an excessive amount of solvent thereby causing an obstruction to form on the inside of pipe.
i. Allow joints to set at least 24 hours before applying pressure to PVC pipe.
7. Tape threaded connection with teflon tape.
C. Control Valves and Controller:
1. Install controller, control wires, and valves in accordance with Manufacturer's recommendations and according to applicable electrical code.
2. Install valves in plastic boxes with reinforced heavy duty plastic covers. Locate valve box tops at finish grade.
3. Install remote control valves in valve boxes positioned over valve so all parts of valve can be reached for service. Set cover of valve box even with finish grade.
4. Install all valve boxes over nine (9") inches of gravel for drainage.
D. Sprinkler Heads:
1. Prior to the installation of sprinkler heads, open control valves and use full head of water to flush out system.
2. Set sprinkler heads perpendicular to finish grade.
3. Set lawn sprinkler heads adjacent to existing walks, curbs, and other paved areas to grade.
E. Dripline:
1. Install RD-12-NP drip zone indicator head next to each control valve with closed nozzle.
2. Stake dripline every eight feet along dripline laterals.

3.3 ADJUSTMENT AND CLEANING:
A. Adjust heads to proper grade when turf is sufficiently established to allow walking on it without appreciable harm. Such lowering or raising of of heads shall be part of the original contract with no additional charge to the Owner.
B. Adjust sprinkler heads for proper distribution and trim to ensure spray does not fall on building.
C. Adjust watering time of valves to provide proper amounts of water to all plants.

3.4 DEMONSTRATION:
A. After system is installed and approved, instruct Owners Representative in complete operation and maintenance.

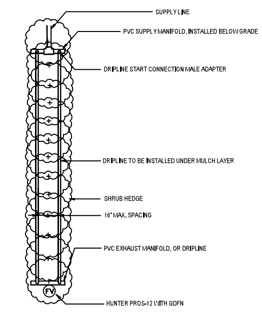
END OF SECTION



NOTES:
1. BUBBLERS SHALL BE PLACED ON THE UPHILL SIDE OF ANY SLOPES & ON THE OPPOSING SIDES OF EACH ROOTBALL WITHIN THE SAUCER
2. BUBBLERS TO BE INSTALLED ADJACENT TO ROOTBALL PERIMETER, DO NOT INSTALL BUBBLER ON TOP OF ROOTBALL OR NEXT TO TRUNK
3. REFER TO PLANS FOR BUBBLER FLOW VOLUME AND BUBBLER QUANTITIES PER TREE OR PALM

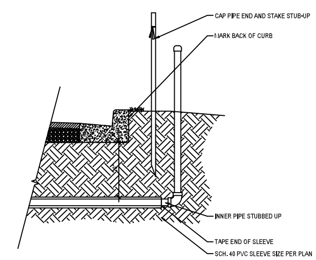
BUBBLER APPLICATION

IRRIGATION DETAIL



DRIPLINE LAYOUT

SCALE: NTS



SLEEVING ROUGH-IN DETAIL

SCALE: NTS

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Janet O. Whitmill Landscape Architect FL 00001289 — 05.19.2023

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1	06.19.2023	COJ 10 SET COMMENTS

JOB NO.	13623
DRAWN:	DHM
CHECKED:	JOW
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IR-2
DRAWING NO.