

ENGINEERING PLANS

FOR

ACE HARDWARE EXPANSION

FOR

STEVE TURNER

ACE/HARDWARE EXPANSION

FOR
STEVE TURNER

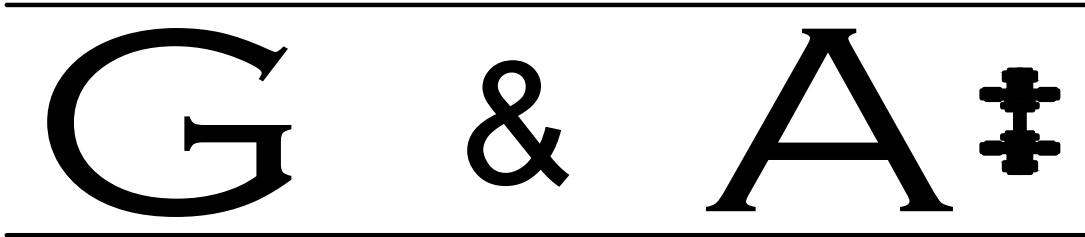
RELEASED FOR CONSTRUCTION BY

GILLETTE & ASSOCIATES, INC.

CIVIL & ENVIRONMENTAL ENGINEERING
MECHANICAL & STRUCTURAL ENGINEERING
PERMITTING & CONSTRUCTION MANAGEMENT

20 SOUTH 4TH STREET AMELIA ISLAND, FLORIDA 32034
PHONE: 904/261-8819

PERMITTING AGENCIES
NASSAU COUNTY, FLORIDA
ST. JOHNS RIVER WATER MANAGEMENT DISTRICT
FLORIDA DEPARTMENT OF TRANSPORTATION

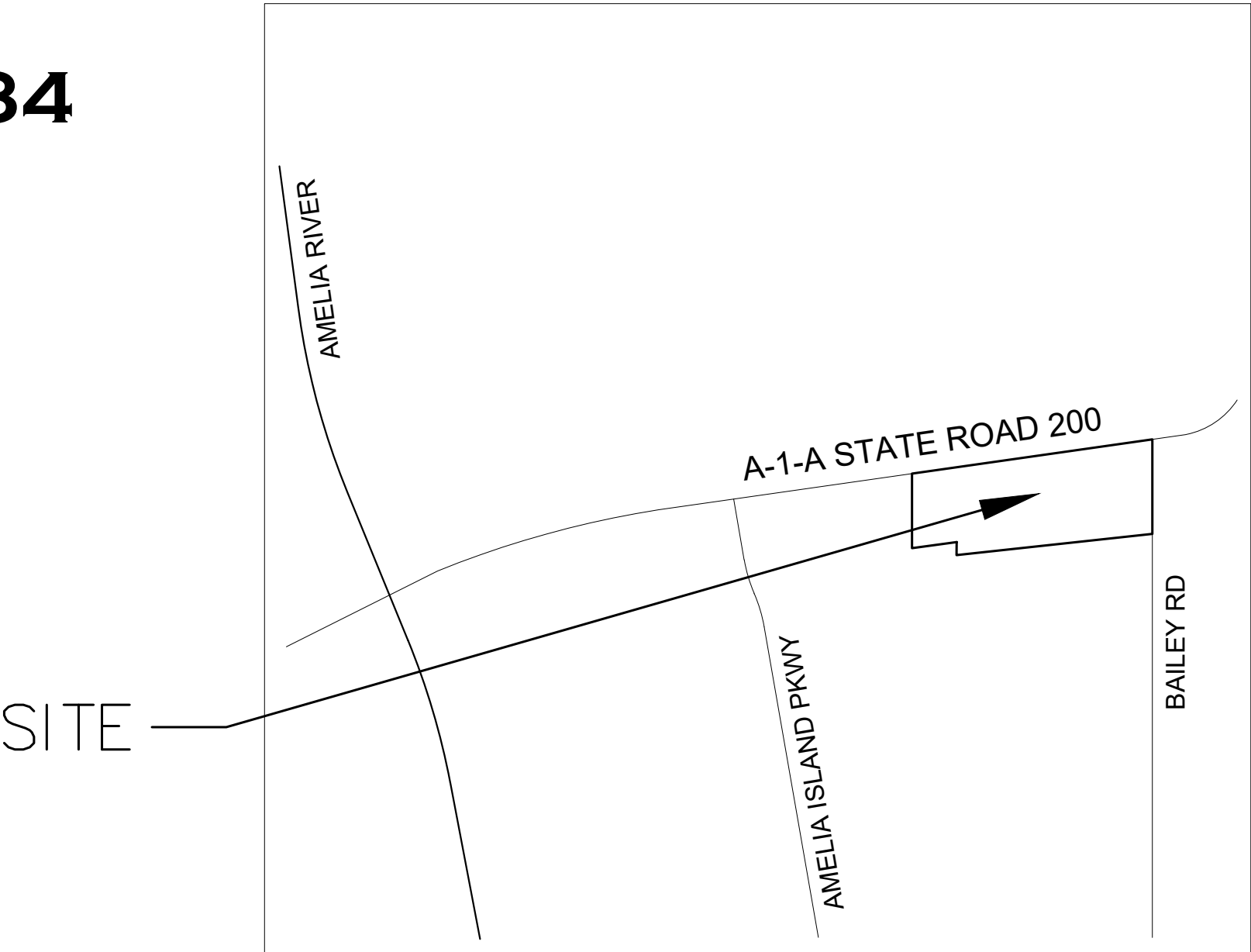


ISSUE DATE: April 1, 2020
REVISION DATE: April 6, 2021

G&A Project
No.: 19-10-16

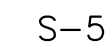
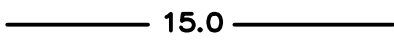
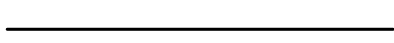
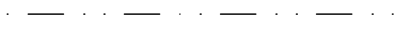
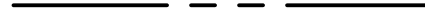


SITE LOCATION MAP

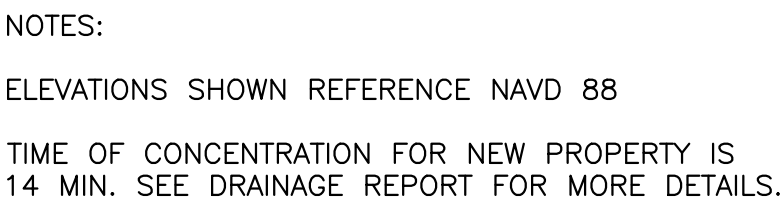
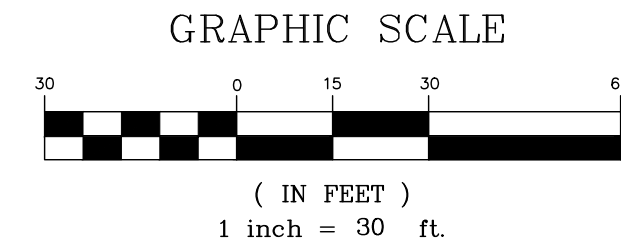
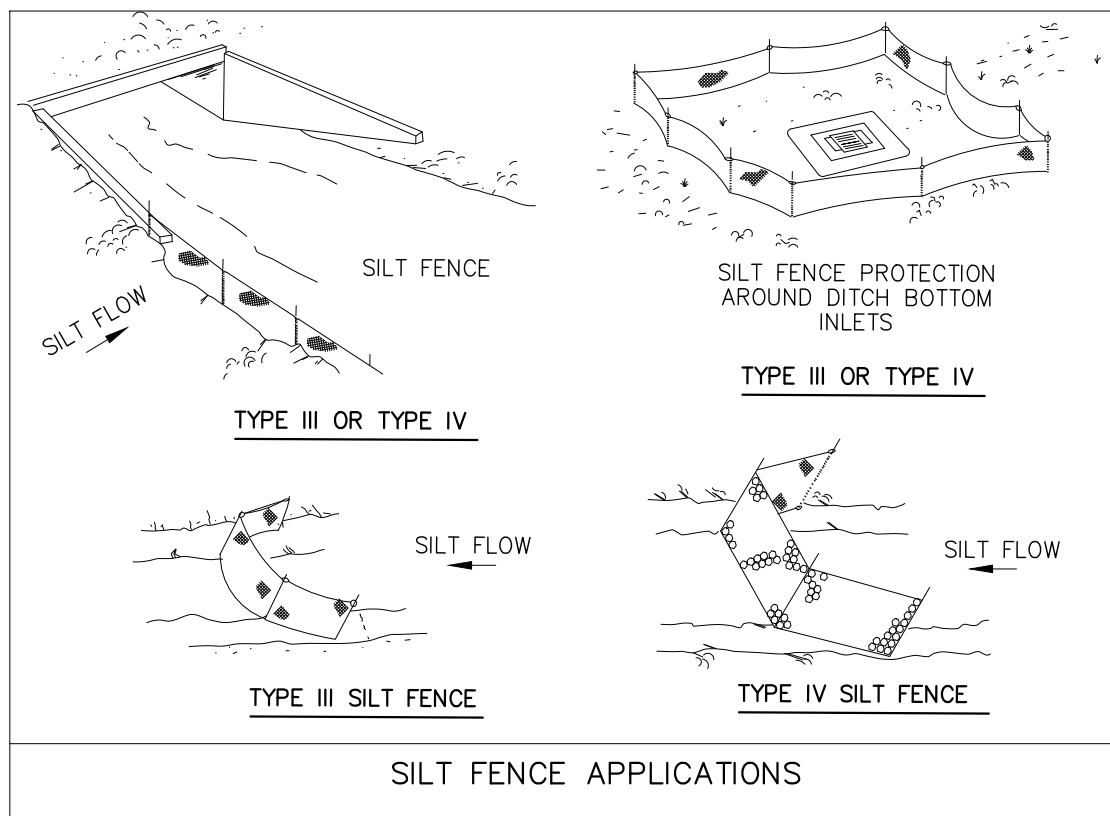


K				Scale: NONE	Gillette & Associates, Inc. 20 South 4th Street Fernandina Beach, FL 32034	 GILLETTE & ASSOCIATES, INC. 20 SOUTH 4TH STREET FERNANDINA BEACH, FL 32034 PHONE: (904) 261-8819	ACE HARDWARE EXPANSION	EXPANSION/WAREHOUSE	COVER SHEET	REGISTERED DESIGN PROFESSIONAL	DATE: 04/06/21
J				Project Mgr: AG							Certificate of Authorization No. 9332
I				Designed by: AG	DO NOT SCALE THIS DRAWING — DIMENSIONS AND NOTES TAKE PREFERENCE. DRAWING IS REDUCED IF LESS THAN 22" x 34"	STATE ROAD 200 (A-1-A) NASSAU, FLORIDA	Page 1 of 11				
H				Drawn by: EC				Project No. 19-10-16			
G				QA/QC: NG							
F	EC	04/06/21	REVISED PER COUNTY FIRE COMMENTS							ASA R. GILLETTE, P.E. FLORIDA P.E. NO. 56177	
E	EC	07/13/20	REMOVABLE END OF ROAD MARKERS								
D	EC	06/18/20	END OF ROAD OBJECT MARKERS ADDED								
C	EC	06/16/20	ISSUE FOR FDOT								
B	EC	05/26/20	REVISED PER NASSAU COUNTY COMMENTS								
A	EC	04/01/20	NASSAU COUNTY ENGINEERING REVIEW								
No.	By	Date	Revision								

SITE / GEOMETRY NOTES			WATER NOTES		INDEX					
1. 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 REGULATIONS AND THE FLORIDA TRENCH SAFETY ACT MUST BE INCLUDED IN THE CONTRACTOR'S PRICE FOR PERFORMING THE WORK. 2. 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 IS URGED TO TAKE COLOR PHOTOGRAPHS ALONG THE ROUTE OF THIS PROJECT TO RECORD EXISTING CONDITIONS PRIOR TO CONSTRUCTION, AND TO AID IN RESOLVING POSSIBLE FUTURE COMPLAINTS THAT MAY OCCUR DUE TO CONSTRUCTION OF THE PROJECT. ALL COSTS ASSOCIATED WITH PRELIMINARY INVESTIGATION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. 3. ALL IMPROVEMENTS SHOWN ARE TO BE WARRANTED BY THE CONTRACTOR TO THE DEVELOPER. 4. ELEVATIONS ARE BASED ON NAVD DATUM OF 1988. 5. TOPOGRAPHIC AND BOUNDARY INFORMATION WAS PROVIDED BY: MANZIE & DRAKE LAND SURVEYING (904-491-5700). 6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY BUILDING, RIGHT-OF-WAY PERMITS NOT PROVIDED AND INSURANCE REQUIRED FOR THE PROJECT. 7. THE CONTRACTOR SHALL COORDINATE THE WORK WITHIN CITY, COUNTY OR STATE RIGHT-OF-WAY WITH THE PROPER AGENCIES FOR MAINTENANCE OF TRAFFIC AND METHOD OF CONSTRUCTION & REPAIR. 8. THE CONTRACTOR SHALL ADVISE THE OWNER'S AUTHORIZED REPRESENTATIVE OF PLANNED WORK SCHEDULE. THE CONTRACTOR SHALL COORDINATE THEIR CONSTRUCTION WITH ALL OTHER CONTRACTORS, IN THE EVENT OF ANY CONFLICT WHATSOEVER, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD, AND THE OWNER PRIOR TO PROCEEDING WITH CONSTRUCTION. 9. "AS-BUILT" DRAWINGS – AS-BUILTS 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. 10. "AS-BUILT" RECORD DATA AND INFORMATION SHALL BE MAINTAINED BY THE CONTRACTOR. RECORD DRAWINGS SHALL BE SUPPLIED TO THE ENGINEER. 11. THE 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. 12. ALL DEBRIS RESULTING FROM ALL ACTIVITIES SHALL BE DISPOSED OF OFF-SITE BY CONTRACTOR ON A DAILY BASIS. 13. ALL EXCESS SUITABLE AND UNSUITABLE MATERIALS SHALL BE REMOVED FROM THE SITE BY THE CONTRACTOR UNLESS DIRECTED OTHERWISE BY THE ENGINEER. 14. ALL EXISTING TREES LISTED TO REMAIN SHALL BE PRESERVED AND PROTECTED. 15. THE LOCATION OF ALL EXISTING UTILITIES, STRUCTURES, AND IMPROVEMENTS ON THE DRAWINGS ARE 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 ACTUAL FIELD LOCATIONS, THE CONTRACTOR SHALL NOTIFY THE OWNER AND ENGINEER OF THE DISCREPANCY. THE DISCREPANCY SHOULD BE RESOLVED PRIOR TO COMMENCING CONSTRUCTION. THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHEN WORKING IN AREAS NEAR EXISTING UTILITY IMPROVEMENTS AND SHALL BE RESPONSIBLE FOR REPAIRS OR PAYMENTS 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 THEY SHALL CONNECT. 16. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE ENGINEER ON ALL MATERIALS, FOR REVIEW AND APPROVAL, PRIOR TO PURCHASE OR CONSTRUCTION OF ANY UTILITY OR STRUCTURE. 17A. UNSUITABLE MATERIALS UNDER WATER, SEWER, OR STORM PIPE AND/OR STRUCTURES SHALL BE REMOVED AND REPLACED WITH SELECTED BACKFILL COMPACTED TO 98% OF ITS MAXIMUM DENSITY AS DETERMINED BY THE MODIFIED PROCTOR TEST (ASTM D1557). 17B. ALL FINISH FLOORS SHOWN ON THE PLANS ARE MINIMUM ELEVATIONS			18. ALL WATER & SEWER CONSTRUCTION SHALL BE ACCOMPLISHED BY AN UNDERGROUND UTILITY CONTRACTOR LICENSED UNDER THE PROVISIONS OF CHAPTER 489 FLORIDA STATUTES. 19. WHEN DEWATERING CAPACITY REQUIRES A PERMIT (CUP), IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN THE PERMIT THROUGH THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT. 20. WATER MAINS SHALL BE LAID AT LEAST 10 FEET HORIZONTALLY FROM ANY EXISTING OR PROPOSED SANITARY HAZARD. THE DISTANCE SHALL BE MEASURED EDGE TO EDGE, WHERE PARALLEL WATER AND SEWER MAINS HAVE LESS THAN 10 FOOT HORIZONTAL SEPARATION, 20 FOOT LENGTHS OF C900 (DR18) WATER QUALITY PIPE SHALL BE USED WITH THE JOINTS STAGGERED AT 10 FOOT INTERVALS. THE PIPES SHALL BE PLACED IN SEPARATE TRENCHES WITH THE WATER MAIN AT LEAST 18 INCHES ABOVE THE SEWER. 21. WATER MAINS CROSSING SANITARY HAZARDS SHALL BE LAID TO PROVIDE A MINIMUM VERTICAL DISTANCE OF 18 INCHES BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF THE SEWER MAIN. WHERE WATER AND SEWER MAINS CROSS WITH BETWEEN 18 INCHES AND 6 INCHES OF VERTICAL CLEARANCE, A 20 FOOT SECTION OF C900 (DR18) WATER QUALITY PIPE SHALL BE CENTERED ON THE POINT OF THE CROSSING. THE CONTRACTOR SHALL FIELD VERIFY THE VERTICAL SEPARATION. THE MINIMUM SEPARATION BETWEEN WATER AND SEWER PIPES IS TO BE 6 INCHES OUTSIDE DIAMETER TO OUTSIDE DIAMETER. 22. NO WATER MAIN PIPE SHALL PASS THROUGH OR COME IN CONTACT WITH ANY PART OF A SEWER MANHOLE. 23. BLANK 24. TRACER WIRE SHALL BE PROVIDED ON ALL WATER MAINS AND FORCE MAINS. TRACER WIRE SHALL BE #10 UF SOLID COPPER WIRE, COATED, AND SUITABLE FOR BURIAL. COATING SHALL BE BLUE FOR WATER AND GREEN FOR SEWER MAIN CONNECTIONS. WIRE SHALL BE ATTACHED DIRECTLY TO TOP OF PIPE AND BROUGHT INTO EACH VALVE BOX AND COILED TO ALLOW FOR EASY ACCESS AND EXTENSION ABOVE FINISHED GRADE FOR ATTACHMENT OF LOCATING EQUIPMENT. 25. ALL PIPE LENGTHS ARE APPROXIMATE DIMENSIONS. ALL DRAINAGE STRUCTURES SHALL BE CONSTRUCTED TO CONFORM WITH TYPICAL SECTIONS AND DETAILS AS SHOWN ON THE MISCELLANEOUS DETAILS SHEET AND IN ACCORDANCE WITH THE SPECIFICATIONS. 26. ALL UNDERGROUND UTILITIES MUST BE INSTALLED PRIOR TO PREPARATION OF SUBGRADE FOR PAVEMENT. 27. GRADES SHOWN ON PLANS ARE EDGE OF PAVEMENT FINISHED GRADES UNLESS OTHERWISE NOTED. 28. SHOULD THE SURFACE OR SUBSURFACE CONDITIONS VARY FROM WHAT IS SHOWN ON THE PLANS, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER. 29. ALL AREAS DISTURBED DURING CONSTRUCTION SHALL BE SEEDED AND MULCHED UNLESS OTHERWISE SPECIFICALLY STATED. ALL DISTURBED AREAS WITHIN THE NASSAU COUNTY RIGHT OF WAY SHALL BE COVERED WITH BERMUDA SOD. 30. THE CONTRACTOR IS RESPONSIBLE FOR THE CONTROL OF SEDIMENT-LADEN RUNOFF RESULTING FROM STORM EVENTS DURING THE CONSTRUCTION PHASE. EROSION CONTROL FACILITIES SHOULD BE INSTALLED EARLY DURING THE CONSTRUCTION PERIOD SO AS TO PREVENT THE TRANSPORT OF SEDIMENT INTO SURFACE WATERS. RE-VEGETATION AND STABILIZATION OF DISTURBED AREAS SHOULD BE ACCOMPLISHED IMMEDIATELY TO REDUCE THE POTENTIAL FOR FURTHER SOIL EROSION. 31. ANY DISCREPANCIES ON THE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER AND COUNTY/CITY BEFORE COMMENCING WORK. 32. MINIMUM COVER OVER PIPES SHALL BE 36" UNLESS OTHERWISE INDICATED. 33. ALL UNDERGROUND UTILITY COMPANIES SHALL BE CONTACTED AT LEAST 48 HOURS PRIOR TO COMMENCING CONSTRUCTION. 34. IN ADDITION TO THE SPECIFICATIONS AND DETAILS PROVIDED FOR THIS CONTRACT, THE NASSAU COUNTY STANDARD DETAILS AND SPECIFICATIONS (LATEST REVISION) SHALL ALSO BE USED FOR ANY ITEMS NOT COVERED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN A SET OF STANDARD DETAILS AND SPECIFICATIONS FROM NASSAU COUNTY. 35. BACKFILL MATERIAL SHALL BE COMPACTED TO 100% (2%) PER CITY OF FB REQUIREMENTS UNDER EXISTING AND PROPOSED ROADWAYS. 36. NO FIELD CHANGES OR DEVIATIONS FROM DESIGN TO BE MADE WITHOUT PRIOR APPROVAL OF THE ENGINEER. 37. STATIONING REFERS TO THE CENTERLINE OF THE ROADWAY EXCEPT AS NOTED ON PLANS, WHERE PAVEMENT SPLITS, THE STATIONING FOLLOWS THE INSIDE EDGE OF PAVEMENT UNTIL ROADWAY TRANSITIONS BACK TO THE TYPICAL ROADWAY SECTION 38. ALL CONSTRUCTION, MATERIAL, AND WORKMANSHIP ARE TO BE IN ACCORDANCE WITH CITY OF FB AND COUNTY STANDARDS		1. WATER MAINS SHALL HAVE A MINIMUM OF 36" COVER UNDER PAVEMENT OR 30" COVER FROM FINISHED GRADE UNLESS OTHERWISE SHOWN. ALL WATER MAINS SHALL BE FLUSHED IN ACCORDANCE WITH, AND UNDER THE DIRECTION OF THE UTILITY COMPANY. 2. THRUST RESTRAINTS ARE REQUIRED IN ACCORDANCE WITH THE UTILITY COMPANY STANDARDS WHERE WATER MAINS ARE TERMINATED AND AT ALL BENDS AND TEES. 3. TIE RODS SHALL BE INSTALLED ON ALL VALVES LOCATED AT FITTINGS. ALL 10" AND LARGER VALVES AND LARGER SHALL REQUIRE (4) TIE RODS. MEGA LUG JOINT RESTRAINTS MAY BE USED IN LIEU OF THRUST BLOCKS OR TIE RODS. 4. UNLESS OTHERWISE NOTED, WATER MAINS ARE TO BE PVC DR18, DR-25, C-900 (BLUE), CLASS 150. 5. ALL WATER MAINS SHALL BE BACTERIOLOGICAL AND PRESSURE TESTED IN ACCORDANCE WITH AWWA C-600. NO CONNECTION TO EXISTING POTABLE WATER SYSTEM SHALL BE ALLOWED UNTIL ALL PROPOSED WATER MAINS HAVE BEEN PRESSURE TESTED, DISINFECTED, AND CLEARED FOR SERVICE. THE UTILITY COMPANY'S AUTHORIZED REPRESENTATIVE MUST BE NOTIFIED 48 HOURS PRIOR TO PERFORMING THE PRESSURE TEST AND MUST BE PRESENT. 6. THE CONTRACTOR SHALL AVOID SERVICE INTERRUPTIONS AND MAINTAIN ANY EXISTING WATER 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. BOIL WATER NOTICES SHALL BE DELIVERED IN ACCORDANCE WITH THE UTILITY COMPANY BOIL WATER NOTICE REQUIREMENTS. 7. ALL MAIN FLUSHING POINTS SHALL BE SAME SIZE AS MAIN UP TO 8 INCH WATER MAINS. FLUSHING POINTS FOR MAINS LARGER THAN 8 INCH SHALL BE REDUCED TO 8 INCH. 8. ALL WATER MAINS SHALL BE DISINFECTED USING LIQUID CHLORINE OR HYPOCHLORITES IN ACCORDANCE TO AWWA C651-86. WATER IN MAIN SHALL MAINTAIN A CHLORINE RESIDUAL OF 50 MG/L FOR A MINIMUM OF 24 HOURS. WATER MAIN SHALL NOT BE PLACED IN SERVICE UNTIL CLEARANCE HAS BEEN PROVIDED BY THE APPROPRIATE REGULATING AGENCY AND CITY OFFERNANDINA BEACH UTILITIES DEPARTMENT. 9. IF SOLVENT CONTAMINATION IS FOUND IN THE PIPE TRENCH, WORK SHALL BE STOPPED AND THE PROPER AUTHORITIES NOTIFIED. BASED ON APPROVAL OF THE PERMITTING AGENCY, DUCTILE IRON PIPE, FITTINGS, AND SOLVENT RESISTANT GASKET MATERIAL SUCH AS FLUOROCARBON SHALL BE USED IN THE CONTAMINATED AREA. THE DUCTILE IRON PIPE SHALL EXTEND AT LEAST 100 FEET BEYOND ANY SOLVENT NOTED. ANY CONTAMINATED SOIL THAT IS EXCAVATED SHALL BE PLACED ON AN IMPERMEABLE MAT AND COVERED WITH A WATER PROOF COVERING. THE PROPER AUTHORITIES WILL BE NOTIFIED AND THE CONTAMINATED SOIL HELD FOR PROPER DISPOSAL. 10. 2" FLUSHING HYDRANTS SHALL BE INSTALLED AT ALL DEAD END LINES AND MAIN LINE STUB-OUTS. 11. A SEPARATE WATER SERVICE SHALL BE REQUIRED FOR EACH UNIT SERVED AND SHALL BE INSTALLED 3 FEET EITHER SIDE OF PROPERTY LINE. ALL WATER SERVICES SHALL BE MARKED WITH A "W" ETCHED ON THE CURB. ALL VALVES SHALL BE MARKED WITH A "V" ETCHED ON THE CURB. 12. ALL BACKFLOW PREVENTION ASSEMBLIES SHALL BE INSTALLED IN ACCORDANCE WITH THE UTILITY COMPANY'S STANDARDS. 13. ALL BACKFLOW PREVENTION ASSEMBLIES SHALL BE INSTALLED AT THE CONSUMER'S METER OR AT THE PROPERTY LINE WHEN A METER IS NOT USED. 14. BACKFLOW PREVENTION ASSEMBLIES SHALL BE TESTED BY A CERTIFIED BACKFLOW TECHNICIAN. TEST RESULTS SHALL BE SUBMITTED TO AND APPROVED BY THE UTILITY COMPANY PRIOR TO ACCEPTANCE OF INSTALLATION. 15. MAXIMUM DEPTH ON WATER SERVICES TO METER TO BE 36".			PAGE #	SHEET	DESCRIPTION
			1	CVR	COVER SHEET					
			2	IN-1	INDEX SHEET					
			3	PRE-1	PREDEVELOPMENT PLAN					
			4	GE-1	GEOMETRY PLAN					
			5	DR-1	DRAINAGE PLAN					
			6	LS-1	TREE PRESERVATION PLAN					
			7	LS-2	LANDSCAPE PLAN					
			8	DT-1	MISCELLANEOUS DETAILS					
			9	DT-2	WATER DETAILS					
			10	DT-3	SEWER DETAILS					
			11	MOT-1	MOT PLAN					
			FIRE NOTES							
			1. WHERE UNDERGROUND WATER MAINS AND HYDRANTS ARE TO BE PROVIDED, THEY SHALL BE INSTALLED, COMPLETED, AND IN SERVICE PRIOR TO COMMENCING CONSTRUCTION WORK ON ANY STRUCTURE. (NFPA 1, 18.4.3.1.3, 2009 EDITION) 2. CLEARANCES OF SEVEN AND ONE HALF FEET (7 FT-6 IN.) IN FRONT OF AND TO THE SIDES OF THE FIRE HYDRANT, WITH A FOUR FOOT CLEARANCE TO THE REAR OF THE HYDRANT. (NFPA 1, 18.3.4.1, 2009) 3. NEW FIRE HYDRANT(S) SHALL BE INSTALLED SO THAT POSITIONED NOT MORE THAN 7 FEET 6 INCHES AWAY FROM CURB OR BERM OF THE ROADWAY.							

LEGEND			SEWER NOTES	
	EXISTING VALVE		PROPOSED SPOT ELEVATION	1. THE CONTRACTOR SHALL PROVIDE, TO THE ENGINEER OF RECORD , A SCHEDULE OF INVERT ELEVATIONS OF ALL SANITARY MANHOLES PRIOR TO THE PLACEMENT OF THE LIME ROCK BASE COURSE. THIS SCHEDULE TO BE PROVIDED BY THE REGISTERED LAND SURVEYOR SUBMITTING THE "AS-BUILT" DRAWINGS FOR THIS PROJECT. 2. SANITARY SEWER SERVICES SHALL BE 6"PVC WITH A MINIMUM SLOPE OF 0.006 FEET PER FOOT AND SHALL BE TERMINATED AT THE RIGHT-OF-WAY LINE WITH A DEPTH OF 24" TO 48" FROM THE FINAL FINISHED GRADE OF THE DEVELOPED LOTS. DEPTHS GREATER THAN 48" FROM FINAL FINISHED GRADE SHALL BE READJUSTED BY THE DEVELOPER AT HIS COST. 3. GRAVITY SEWER TO BE CLEANED & TV TESTED BY DEVELOPER AT DEVELOPER'S EXPENSE 4. ALL MANHOLE FRAMES AND COVERS TO BE ADJUSTED TO FINAL FINISHED GRADE. 5. A SEPARATE SEWER SERVICE (6" MIN.) SHALL BE PROVIDED TO THE RIGHT-OF-WAY FOR EACH LOT BEING SERVED. AN "S" SHALL BE ETCHED INTO THE CURB DIRECTLY OVER EACH SERVICE LINE OR IN THE STREET SIDE OF A SIDEWALK IN LINE WITH THE CLEANOUT. 6. GRAVITY SEWER TO BE GREEN IN COLOR 7. NEW GRAVITY SEWER SYSTEM SHALL BE PLUGGED AT NEAREST EXISTING DOWNSTREAM MANHOLE AND SHALL NOT BE REMOVED WITHOUT AUTHORIZATION FROM THE UTILITY COMPANY. EXISTING MANHOLES TO BE COREBORED AND ARRANGEMENTS MADE TO BE REFURBISHED WITH COMPATIBLE MATERIALS IF THE EXISTING MANHOLE IS ALLOWED TO BE USED. 8. FINISHED FLOOR ELEVATIONS SHALL BE GREATER (HIGHER) THAN THE ELEVATION OF THE MANHOLE NEAREST THE SERVICE LATERAL IN ORDER TO AVOID A POTENTIAL BACKUP OF SEWERAGE IN THE HOUSE OR BUILDING. 9. ALL GRAVITY SEWER PIPE TO A 10 FOOT DEPTH OF COVER SHALL BE SDR-26 PVC PIPE (MINIMUM). GRAVITY SEWER PIPE WITH COVER OF 15 FEET (AND IN EASEMENTS) AND GREATER SHALL BE C900 - DR18. JOINT SHALL BE OF THE BELL AND SPIGOT TYPE AND MEET THE REQUIREMENTS OF THE PIPE REFERRED BEING USED. 10. WHEN A PROPERTY LINE CAN NOT BE DEFINED, THE SEWER CLEANOUT SHALL BE PLACED IN AN UNPAVED AREA AT A DISTANCE NO GREATER THAN 30 FEET FROM THE SEWER MAIN. 11. NOTE: DR-18 TO BE USED ON SEWER LINE CROSSING WHERE STORM DRAIN IS WITHIN 24 INCHES ABOVE GRAVITY ALSO JOINT TO BE CENTERED AT CROSSING 12. ALL MANHOLES TO HAVE MINIMUM 24" HINGED RING AND COVER EAST JORDAN OR APPROVED EQUIVALENT 13. SEWER PLUGS USED DURING THE CONSTRUCTION OR CONNECTION TO A SYSTEM SHALL HAVE THE CONTRACTOR'S NAME PERMANENTLY STAMPED. 14. THE MANHOLE LINER SHALL BE SPECTRA SHIELD OR APPROVED EQUIVALENT. 15. IN ACCORDANCE WITH THE DEPARTMENT OF ENVIRONMENTAL PROTECTION (DEP) REQUIREMENTS, LEAKAGE TESTING SHALL BE PERFORMED ON ALL SEGMENTS OF THE SEWER SYSTEM. TESTING MAY INCLUDE APPROPRIATE WATER OR LOW PRESSURE AIR TESTING. TEST METHODS SHALL TAKE INTO CONSIDERATION THE RANGE IN GROUNDWATER ELEVATIONS DURING THE TEST AND ANTICIPATED DURING THE DESIGNED LIFE OF THE SEWER. NO LEAKAGE ALLOWED IN SYSTEM. 16. ALL FORCE MAIN PIPING TO BE DR-18 GREEN OR BROWN. 17. CONTACT JOHN MANDRICK, COFB UTILITY DIRECTOR AT (904-310-3420) FOR PRE-CONSTRUCTION AND COORDINATION MEETING PRIOR TO WORK COMMENCING.
	EXISTING WATER LINE		DRAINAGE STRUCTURE	
	EXISTING SANITARY SEWER		PIPE	
	EXISTING FIRE HYDRANT		PROPOSED CONTOUR	
	PROPOSED SANITARY SEWER		PROPOSED EDGE OF PAVEMENT	
	PROPOSED WATER LINE		PROPOSED PROPERTY LINE	
	PROPOSED FIRE HYDRANT		PROPOSED R.O.W. LINE	
	EXISTING EDGE OF PAVEMENT		EXISTING CONTOUR	
	EXISTING PROPERTY LINE			

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J				Project Mgr: AG						Sheet
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SITE NOTES

PROPERTY
NEW PROPERTY PARCEL 1: 00-00-30-044B-0096-0020
NEW PROPERTY PARCEL 2: 00-00-30-044B-0096-0040
EXISTING PROPERTY PARCEL: 00-00-30-044B-0095-0010
NEW LOT AREA: 0.65 ACRE
COMBINED LOT AREA: 3.09 ACRES
ZONING: COMMERCIAL INTENSIVE
LAND USE: COMMERCIAL
FLOOD ZONE: X

BUILDINGS
EXIST COMMERCIAL: 14,810 SF
NEW COMMERCIAL: 7,100 SF
+1,520 SF OF WAREHOUSE CONVERSION
EXIST GREENHOUSE: 2,760 SF
NEW GREENHOUSE: 1,380 SF
EXIST WAREHOUSE: 1,520 SF (CONVERT TO COMMERCIAL)
NEW WAREHOUSES: 3,650 SF
EXIST COVERED STORAGE: 1,800 SF
PREVIOUS OUTSIDE DISPLAY: 9,334 SF
NEW OUTSIDE DISPLAY: 9,169 SF

IMPERVIOUS AREA
MAXIMUM IMPERVIOUS SURFACE RATIO: 67%
TOTAL PROPOSED IMPERVIOUS AREA:
PARKING LOT: 39,352 SF
BUILDINGS AND SIDEWALKS: 36,612 SF
RETENTION PONDS AT NWL: 13,397 SF
TOTAL IMPERVIOUS AREA: 89,361 SF = 2.05 ACRES
PROPOSED IMPERVIOUS SURFACE RATIO: 66%

PARKING
ENCLOSED COMMERCIAL: 300 SF/SPACE
(7,100 SF + 16,330 SF)/300 = 78 SPACES
OUTSIDE DISPLAY: 1000 SF/SPACE
AREA: 1,426 SF + 1,840 SF + 7,920 SF = 11,186 SF
PARKING: 11,186 SF/1000 = 11 SPACES
TOTAL PARKING REQUIRED: 89 SPACES

EXISTING PARKING: 92± SPACES
PROPOSED PARKING: 89 SPACES
TOTAL ADA SPACES: 4
TOTAL REGULAR SPACES: 85

PARKING LOT AREA: 39,352 SF = 0.90 ACRE
PARKING RATIO: 29%

BUFFERS BETWEEN CERTAIN USES
(PER NASSAU COUNTY LAND DEVELOPMENT CODE, SECTION 37.06)

NORTH PARCEL: IG
ZONING DISTRICT: ARTERIAL ROADWAY
REQUIRED BUFFER: NONE REQUIRED
LANDSCAPE BUFFER VARIANCE V2020-01 APPROVED 1/23/20
DUE TO INADEQUATE AREA TO PROVIDE BOTH REQUIRED PARKING AND 25-FT LANDSCAPE STRIP RESULTING FROM R/O/W EXPANSION IN THE 1970s.

SOUTH & WEST PARCELS:
ZONING DISTRICTS: COMMERCIAL INTENSIVE
REQUIRED BUFFER: NONE REQUIRED

EAST PARCEL:
ZONING DISTRICT: COLLECTOR ROADWAY
REQUIRED BUFFER: NONE REQUIRED

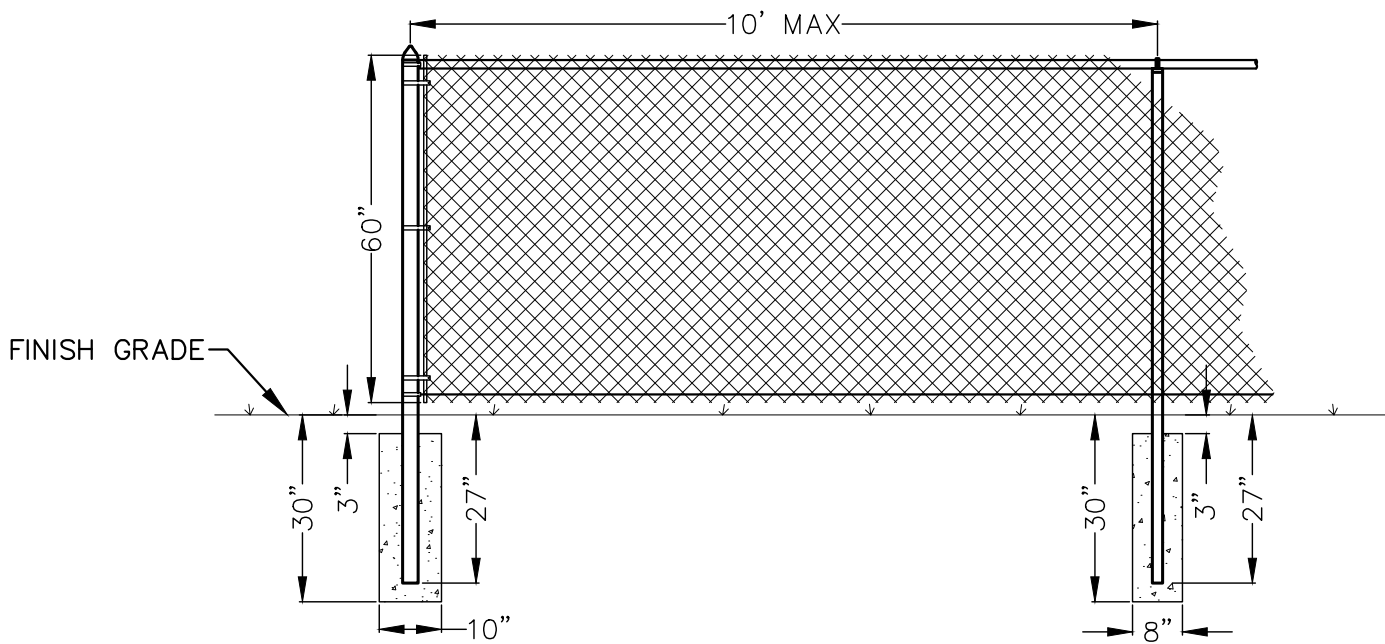
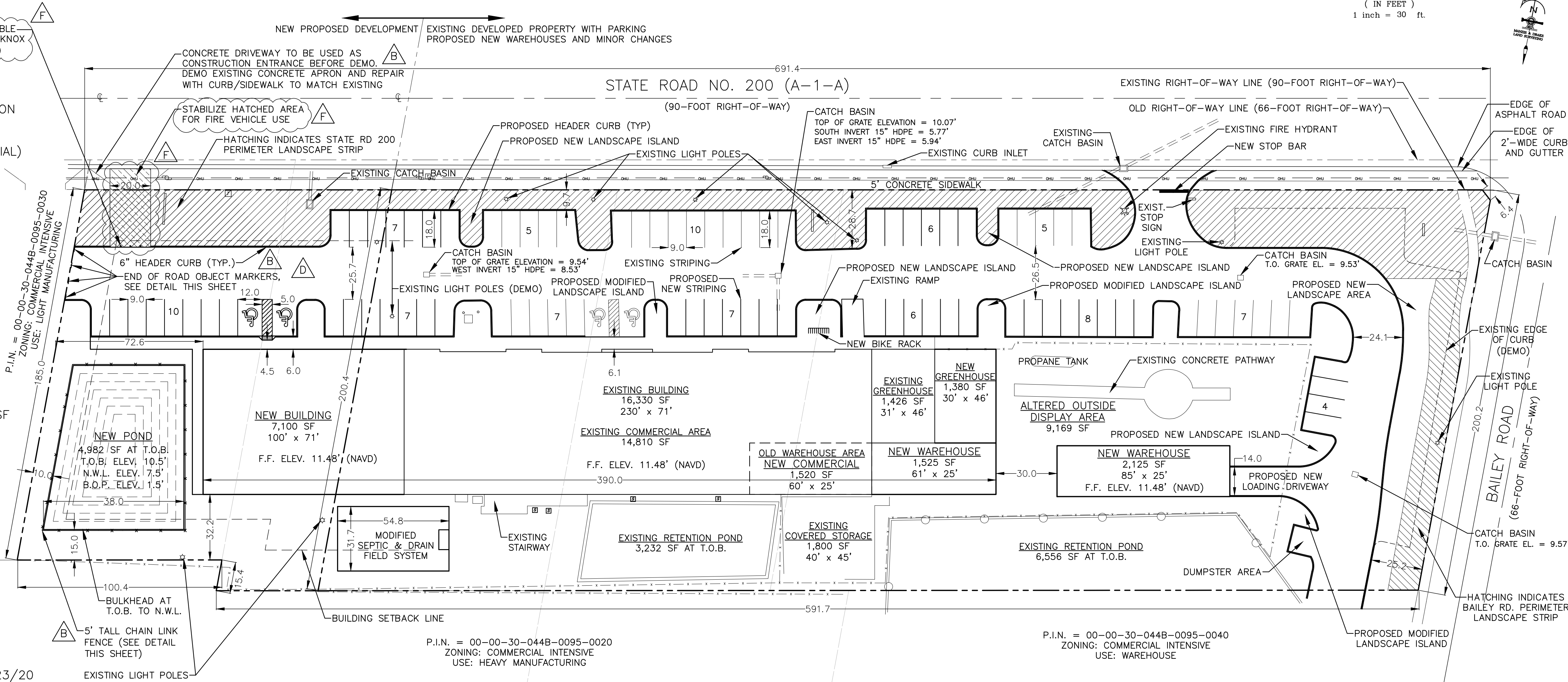
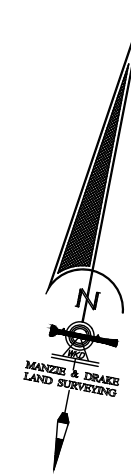
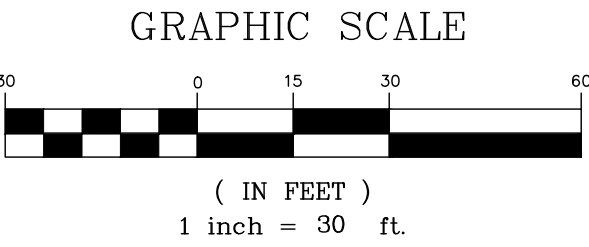
MINIMUM BUILDING SETBACK REQUIREMENTS
FRONT YARD: 25 FT
SIDE YARD: 20 FT
(NO SIDE YARD REQUIRED BETWEEN COMMERCIAL BUILDINGS)
REAR YARD: 20 FT

BUILDING RESTRICTIONS
MAXIMUM BUILDING/STRUCTURE COVERAGE: 70%
PROPOSED BUILDING/STRUCTURE COVERAGE: 25%
MAXIMUM BUILDING HEIGHT: 40 FT
PROPOSED BUILDING HEIGHT: 25 FT

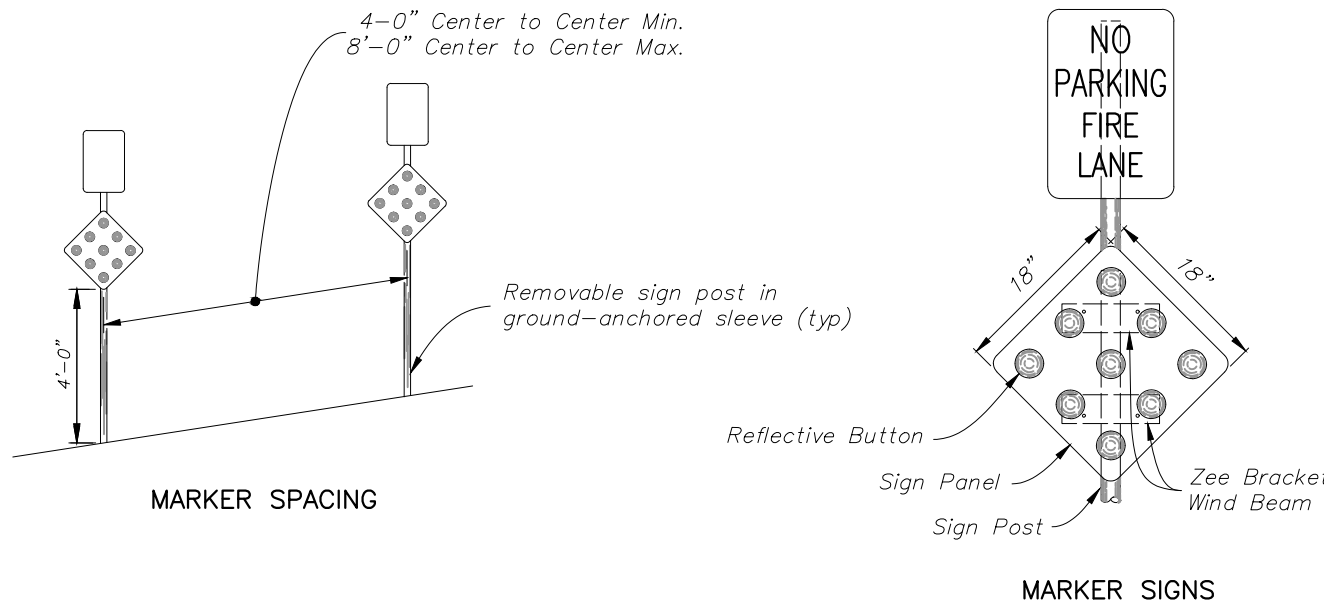
UTILITIES
ELECTRIC: FLORIDA PUBLIC UTILITIES
WATER: CITY OF FERNANDINA BEACH
SEWER: EXISTING SEPTIC AND DRAINFIELD

- NO NEW WATER OR SEWER DEMAND PROPOSED.
- EXISTING BUILDINGS CONTAIN FIRE PROTECTION. NEW BUILDING ADDITION TO CONTAIN FIRE PROTECTION.
- NO WELLS ON SITE OR WITHIN 200 FT OF MODIFIED SEPTIC SYSTEM.
- LIGHTING FOR NEW WORK TO BE BUILDING MOUNTED. EXISTING LIGHTING ON 20 FT AND 30 FT POLES. EXISTING LIGHTING CONSISTS OF DOWN AND SIDE LIGHTING FACING AWAY FROM ROADWAYS WITH NO IMPACT ON NEIGHBORING PROPERTIES.

CONSTRUCTION
A PRE-CONSTRUCTION MEETING WITH NASSAU COUNTY ENGINEERING SERVICES CONSTRUCTION INSPECTOR IS REQUIRED (904-530-6225)



POND FENCE DETAIL
N.T.S.



END OF ROAD OBJECT MARKER DETAILS
N.T.S.

K					
J					
I					
H					
G					
F	EC	04/06/21	REVISED PER COUNTY FIRE COMMENTS		
E	EC	07/13/20	REMOVABLE END OF ROAD MARKERS		
D	EC	06/18/20	END OF ROAD OBJECT MARKERS ADDED		
C	EC	06/16/20	ISSUE FOR FDOT		
B	EC	05/26/20	REVISED PER NASSAU COUNTY COMMENTS		
A	EC	04/01/20	NASSAU COUNTY ENGINEERING REVIEW		
No.	By	Date	Revision		

Scale: 1"=30'
Project Mgr: AG
Designed by: AG
Drawn by: EC
QA/QC: NG

Gillette & Associates, Inc. 20 South 4th Street Fernandina Beach, FL 32034
Certificate of Authorization No. 9332
DO NOT SCALE THIS DRAWING - DIMENSIONS AND NOTES TAKE PRECEDENCE. DRAWING IS REDUCED IF LESS THAN 22" x 34"

G & A
GILLETTE & ASSOCIATES, INC.
20 SOUTH 4TH STREET FERNANDINA BEACH, FL 32034
PHONE: (904) 261-8819

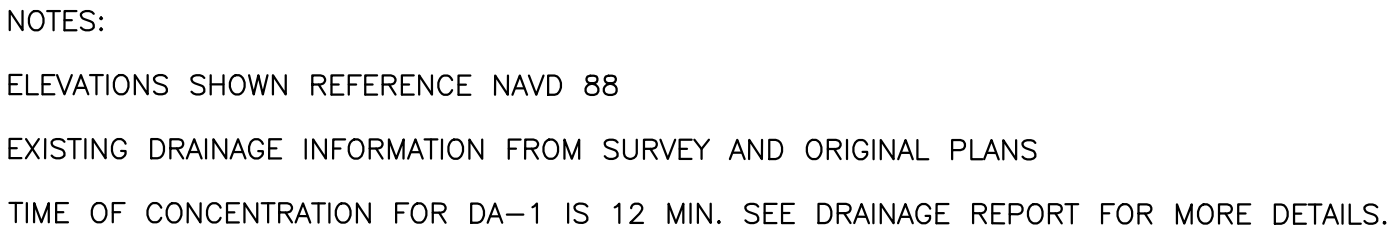
ACE HARDWARE EXPANSION
STATE ROAD 200 (A-1-A)
NASSAU, FLORIDA

EXPANSION/WAREHOUSE

GEOMETRY PLAN

REGISTERED DESIGN PROFESSIONAL	DATE: 04/06/21
Sheet GE-1	
Page 4 of 11	
Project No. 19-10-16	

ASA R. GILLETTE, P.E.
FLORIDA P.E. NO. 56177



NEW PIPE TABLE					
NAME	FROM	TO	SIZE	LENGTH	MATERIAL
P-1	S-1	S-2	24"	74'	HDPE
P-3	S-3	S-4	24"	10'	HDPE
P-DROP-1	S-DROP-1	S-OFF-1	15"	3.5'	HDPE
P-OFF-1	S-OFF-1	S-OFF-2	15"	129'	HDPE
P-OFF-2	S-OFF-2	S-OFF-3	15"	109'	HDPE

EXISTING PIPE TABLE			
NAME	SIZE	LENGTH	MATERIAL
PE-1	15"	174'	HDPE
PE-2	18"	111'	HDPE
PE-3	18"	85'	HDPE
PE-4	18"	7'	HDPE
PE-5	18"	156'	HDPE
PE-6	18"	115'	HDPE
PE-7	18"	153'	HDPE
PE-8	18"	149'	HDPE
PE-9	18"	26'	HDPE
PE-10	12"	210'	HDPE

K				Scale: 1"=30'	Gillette & Associates, Inc. 20 South 4th Street Fernandina Beach, FL 32034	 GILLETTE & ASSOCIATES, INC. 20 SOUTH 4TH STREET FERNANDINA BEACH, FL 32034 PHONE: (904) 261-8819	ACE HARDWARE EXPANSION	EXPANSION/WAREHOUSE	DRAINAGE PLAN	REGISTERED DESIGN PROFESSIONAL ASA R. GILLETTE, P.E. FLORIDA P.E. NO. 56177	DATE: 04/06/21
J				Project Mgr: AG							Certificate of Authorization No. 9332
I				Designed by: AG	DO NOT SCALE THIS DRAWING – DIMENSIONS AND NOTES TAKE PREFERENCE. DRAWING IS REDUCED IF LESS THAN 22" x 34"						Sheet DR-1
H				Drawn by: EC							Page 5 of 11
G				QA/QC: NG							
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No.		Date	Revision								

LANDSCAPE BUFFER REQUIREMENTS

NORTH PROPERTY LINE

ADJACENT RIGHT-OF-WAY: A1A/S.R. 200
REQUIRED BUFFER: 25 FT AVG., 10 FT MIN.
PROPOSED BUFFER: 20 FT AVG., 9 FT MIN.
VARIANCE V2020-01 APPROVED 1/23/20

REQUIRED TREES PER 100 FT OF FRONTAGE:
- 3 CANOPY TREES
- 3 UNDERSTORY TREES
- PLANTED TREES MUST BE A MINIMUM OF 3" CAL
FRONTAGE LENGTH: 691 FT
PROPOSED TREES:
- 18 CANOPY TREES (INCLUDING SAVED TREES)
- 35 UNDERSTORY TREES (MEETS A RATE OF 1

TREE/15' OF FRONTAGE IN LIEU OF NATIVE CANOPY TREES
DUE TO OVERHEAD UTILITY LINES

EAST PROPERTY LINE

ADJACENT RIGHT-OF-WAY: COLLECTOR ROADWAY
REQUIRED BUFFER: 15 FT AVG., 7.5 FT MIN.
PROPOSED BUFFER: 15 FT AVG., 15 FT MIN.
REQUIRED TREES PER 100 FT OF FRONTAGE:
- 3 CANOPY TREES
- 3 UNDERSTORY TREES
- PLANTED TREES MUST BE A MINIMUM OF 3" CAL
FRONTAGE LENGTH: 223 FT
PROPOSED TREES:
- 7 CANOPY TREES (INCLUDING SAVED TREES)
- 7 UNDERSTORY TREES

SOUTH AND WEST PROPERTY LINES

ZONING DISTRICTS: COMMERCIAL INTENSIVE
REQUIRED BUFFER: NONE

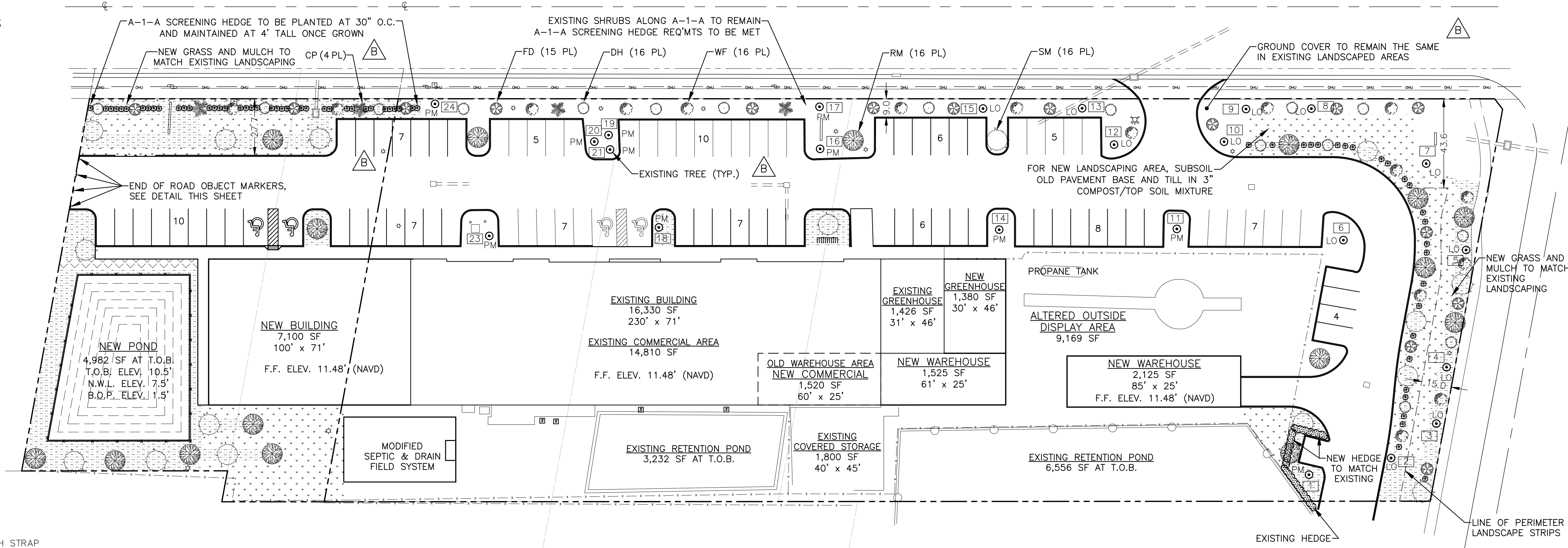
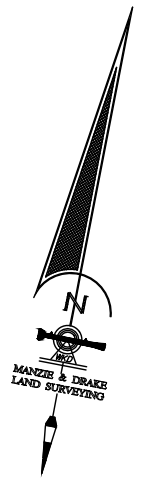
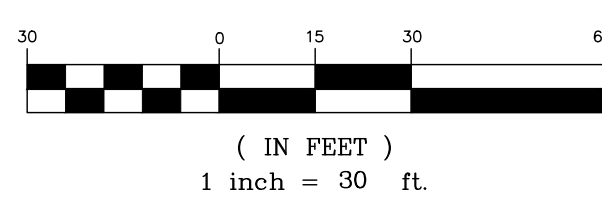
PLANT MATERIAL NOTES

NASSAU COUNTY LAND DEVELOPMENT CODE SECTION 37.05 (B):
ALL INSTALLED TREES, SHRUBS AND GROUNDCOVERS SHALL CONFORM TO THE STANDARDS FOR FLORIDA GRADE #1 OR BETTER ACCORDING TO THE CURRENT EDITION OF "GRADES AND STANDARDS FOR NURSERY PLANTS" PUBLISHED BY THE FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES, DIVISION OF PLANT INDUSTRY. SYNTHETIC OR ARTIFICIAL TREES, SHRUBS, GROUNDCOVERS OR VINES ARE NOT ACCEPTABLE SUBSTITUTES. IN CHOOSING PLANT MATERIALS, CONSIDERATION SHOULD BE GIVEN TO THE AMOUNT OF SUN OR SHADE, THE WETNESS OR DRYNESS OF THE SOIL, THE EFFECTS OF SALT SPRAY (WHERE APPLICABLE), THE AMOUNT OF IRRIGATION REQUIRED AND THE MATURE SIZE AND SPATIAL NEEDS OF PLANTS CHOSEN.

MAINTENANCE REQUIREMENTS

NASSAU COUNTY LAND DEVELOPMENT CODE SECTION 37.05 (J):
THE PROPERTY OWNER IS RESPONSIBLE FOR THE MAINTENANCE OF ALL LANDSCAPE AREAS REQUIRED BY THIS SECTION. MAINTENANCE INCLUDES IRRIGATING, TRIMMING, FERTILIZING AND CARRYING OUT THOSE ACTIVITIES NECESSARY TO KEEP THE PLANT MATERIAL IN A HEALTHY AND GROWING CONDITION, MAINTAIN VISUAL CLEARANCE AND ALLOW PASSAGE OF VEHICLES AND PEDESTRIANS ON PUBLIC ROADS AND NON-EXCLUSIVE EASEMENTS.

GRAPHIC SCALE



TREE PLANTING NOTE

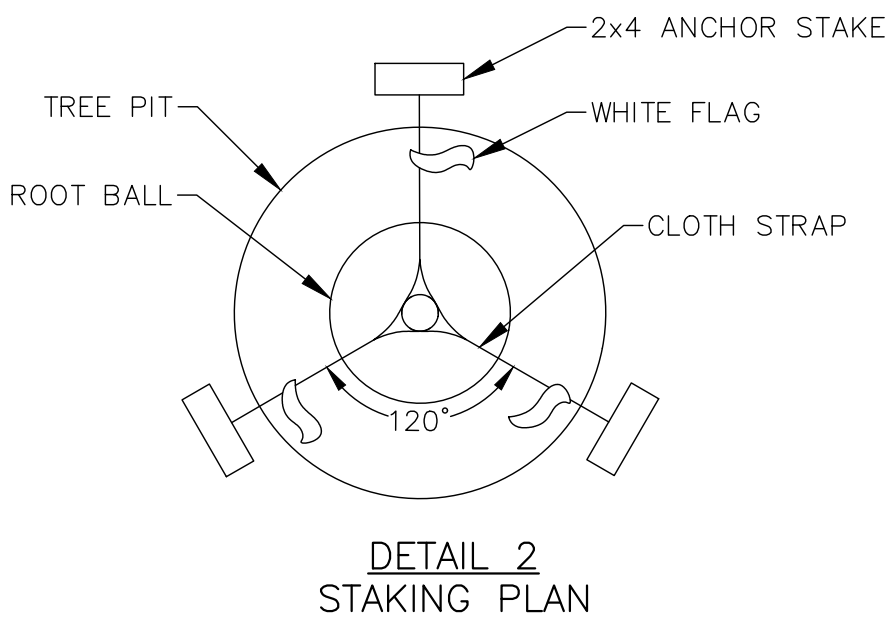
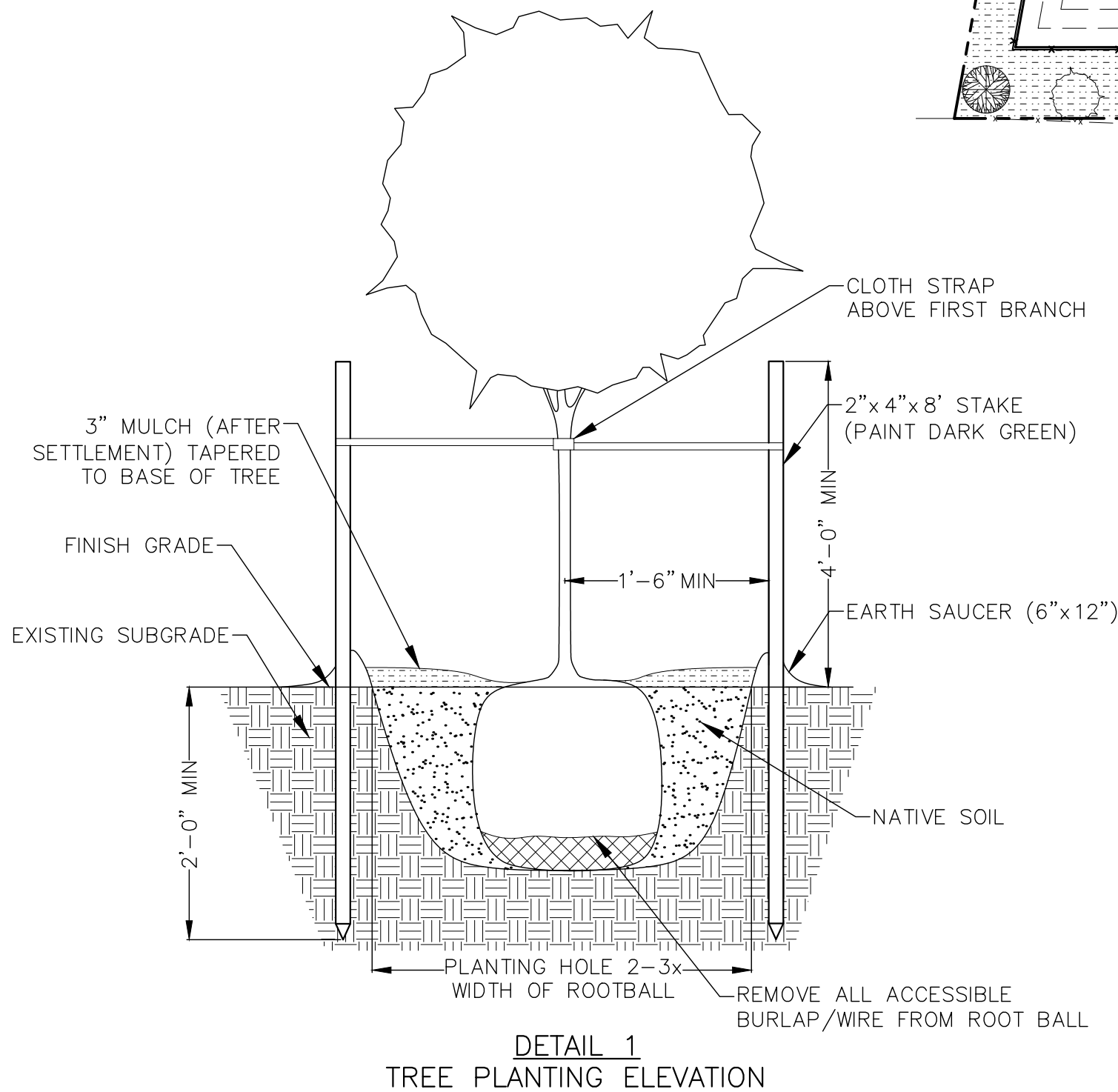
ALL TREES PLANTED SHALL BE STAKED OR GUYED FOR A PERIOD OF AT LEAST SIX (6) MONTHS IN ACCORDANCE WITH THE DETAILS ON THIS SHEET.

NEW PLANT/MATERIAL SCHEDULE

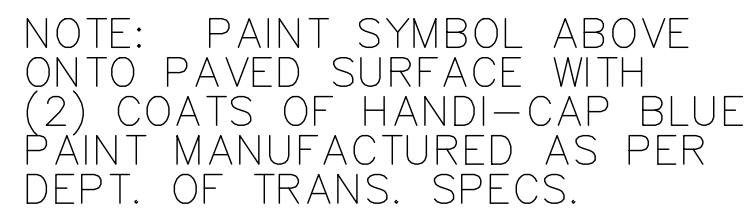
SYMBOL	QTY.	KEY	SPECIES	SIZE/REMARKS
	16	RM	ACER RUBRUM 'OCTOBER GLORY'	3" DBH, 10' HT., 5' SPREAD MIN.
	16	SM	OCTOBER GLORY RED MAPLE	3" DBH, 10' HT., 5' SPREAD MIN.
	4	CP	MAGNOLIA GRANDIFLORA 'LITTLE GEM'	3" DBH, 10' HT., 5' SPREAD MIN.
	15	FD	LITTLE GEM SOUTHERN MAGNOLIA	3" DBH, 10' HT., 5' SPREAD MIN.
	16	DH	SABAL PALMETTO	3" DBH, 10' HT., 5' SPREAD MIN.
	16	WF	CABBAGE PALM	3" DBH, 10' HT., 5' SPREAD MIN.
	~65	IH	CORNUS FLORIDA	3" CAL MIN.
	~18	-	FLOWERING DOGWOOD	3" CAL MIN.
	8,356 SF	-	ILEX CASSINE	3" CAL MIN.
	339 SF	-	DAHOON HOLLY	3" CAL MIN.
	9,993 SF	-	CHIONANTHUS VIRGINICUS	3" CAL MIN.
		-	WHITE FRINGETREE	3" CAL MIN.
		-	RHAPHIOLEPIS INDICA	18" HT. MIN. PLANTED AT 30" O.C. ALONG A-1-A SCREENING HEDGE
		-	INDIAN HAWTHORN	18" HT. MIN. PLANTED AT 24" O.C. ALONG DUMPSTER SCREENING HEDGE
		-	MYRICA CERIFERA	
		-	SOUTHERN WAX MYRTLE	
		-	STENOTAPHRUM SECUNDATUM	
		-	ST. AUGUSTINE GRASS	
		-	MUHLENBERGIA CAPELLARIS	
		-	MUHLY GRASS	
		-	WOODCHIP MULCH	INSTALL VALLEY VIEW IND. ROYAL DIAMOND MODEL RD-60NP OR EQUAL LANDSCAPE EDGING AROUND MULCH TO PREVENT MIGRATION

PERVIOUS GREEN SPACE

TOTAL LOT AREA: 134,600 SF
PERIMETER LANDSCAPE STRIP AREA: 15,761 SF
NON-PERIMETER LOT AREA: 118,839 SF
NON-PERIMETER LANDSCAPED AREA: 11,821 SF
MINIMUM LANDSCAPE RATIO: 10%
PROPOSED LANDSCAPE RATIO: 10%
REQUIRED CANOPY TREES: 1/500 SF OF LANDSCAPING
(11,821 SF)/(500 SF) = 24
PROPOSED CANOPY TREES: 24 (INCLUDING SAVED TREES)



K				Scale: 1"=30'	Gillette & Associates, Inc. 20 South 4th Street Fernandina Beach, FL 32034	G & A GILLETTE & ASSOCIATES, INC 20 SOUTH 4TH STREET FERNANDINA BEACH, FL 32034 PHONE: (904) 261-8819	ACE HARDWARE EXPANSION	EXPANSION/WAREHOUSE	LANDSCAPE PLAN	REGISTERED DESIGN PROFESSIONAL	DATE: 04/06/21
J				Project Mgr: AG							Sheet LS-2
I				Designed by: AG							Page 7 of 11
H				Drawn by: EC							
G				QA/QC: NG							
F	EC	04/06/21	REVISED PER COUNTY FIRE COMMENTS		DO NOT SCALE THIS DRAWING – DIMENSIONS AND NOTES TAKE PREFERENCE. DRAWING IS REDUCED IF LESS THAN 22" x 34"		STATE ROAD 200 (A-1-A)	NASSAU, FLORIDA		ASA R. GILLETTE, P.E. FLORIDA P.E. NO. 56177	Project No. 19-10-16
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NOTE: PROVIDE ADDITIONAL "VAN ACCESSIBLE" SIGNAGE AT ALL LOCATIONS

2.5" GALVANIZED STEEL PIPE

6" DIA. CONCRETE FILLED, STEEL PIPE BOLLARD, PAINTED YELLOW

FINISH PAVING

CONCRETE SURROUND AROUND PIPE COLUMN

84"

48"

1.5' MIN.

2' MIN.

NOTES:

1. ALL SIGNS SHOWN SHALL CONFORM TO FEDERAL ACCESSIBILITY SPECIFICATIONS.
2. ALL SIGNS SHOWN SHALL BE REFLECTORIZED TO SHOW THE SAME COLOR BY NIGHT AS BY DAY.

- NOTES:
1. ALL SIGNS SHOWN SHALL CONFORM TO FEDERAL ACCESSIBILITY SPECIFICATIONS.
 2. ALL SIGNS SHOWN SHALL BE REFLECTORIZED TO SHOW THE SAME COLOR BY NIGHT AS BY DAY.
 3. ALL SIGNS SHALL BE SECURELY MOUNTED ON GALVANIZED STEEL CHANNEL POSTS.
 4. INSTALL QUANTITY AND AT LOCATIONS REQUIRED BY CODE AND/OR AS INDICATED ON DRAWINGS. CONFIRM ALL HANDICAPPED SIGNAGE CODES

3500 PSI CONCRETE
W/ ONE 6X6XW2.4 W.W.M.

$\frac{3}{4}"R$ (TYP)

18"

6"

3'

7"

Diagram illustrating the dimensions and markings for a wheelchair accessible parking space:

- FACE OF CURB OR SIDEWALK**: Indicated by an arrow pointing to the left edge of the parking area.
- 4" STRIPES — PAINT BLUE (15 MM MIN. THICKNESS)**: Indicated by an arrow pointing to the blue diagonal stripes on the right side of the space.
- 12" STRIPES PAINT WHITE**: Indicated by an arrow pointing to the white diagonal stripes on the right side of the space.
- 18'**: Vertical dimension of the parking space.
- 12'**: Horizontal dimension of the main parking space.
- 5'**: Horizontal dimension of the adjacent zone.
- 12"**: Dimension of the diagonal stripes on the right side.
- Wheelchair Symbol**: A standard international symbol for wheelchair accessibility, centered within the 12' x 18' area.

AT ASPHALT PAVEMENT

NOTE:
SOIL ANALYSIS MAY
INDICATE THE NEED FOR
A THICKER BASE COURSE
THAN SHOWN HEREIN. THE
PAVEMENT THICKNESSES
SHOWN HEREIN ARE NOT
INTENDED TO BE
ABSOLUTE, BUT ARE
PRELIMINARY CRITERIA AND
MAY BE MODIFIED TO
ACCOMMODATE THE
BEARING CAPACITIES OF
VARIOUS SUBGRADES.

1 1/2" ASPHALTIC CONCRETE
TYPE SP-9.5

6" COMPACTED LIMEROCK BASE
MIN. LBR 100

12" CONSTRUCTED SUB-BASE
MIN. LBR 40 & 98% COMPACTION

NOTE:
HANDICAP RAMPS MUST BE
6" THICK CONCRETE

Diagram illustrating the dimensions and requirements for ADA parking spaces:

- ADA PARKING SPACES:** The main parking area, with a width of 5'.
- SIDEWALK:** The area adjacent to the parking spaces.
- CURB:** The boundary between the sidewalk and the parking area, with a 6" height.
- Ramp:** The sloped area connecting the sidewalk to the parking space, with a width of 4'.
- YELLOW WET-SET DETECTABLE WARNING MAT:** A mat placed on the ramp, with a width of 2'.
- 6% CURB:** The slope of the curb, indicated as 6%.

The diagram is a cross-section of a pond structure. On the left, a vertical wall is labeled 'S-OFF-1'. To its right is a horizontal pipe labeled 'P-OFF-1'. Further right is a structure labeled 'S-DROP-1'. Above this structure is a 'T.O. BOX ELEV. 9.75\''. To the right of the box is a 'WEIR ELEV. 8.75\''. Above the weir is a 'BULKHEAD'. To the right of the bulkhead is a '100-YEAR D.H.W.L ELEV. 9.25\''. Below the weir is a '6" CAP W/ 2.8" DRILLED ORIFICE W/ INVERT ELEV. 7.75\''. To the right of the orifice is a large rectangular pond. The top of the pond is labeled 'N.W.L. ELEV. 7.50\''. The bottom of the pond is labeled 'B.O. POND ELEV. 1.50\''. The right side of the pond is labeled '4:1 SIDE SLOPE'. The top of the pond is also labeled 'EXIST. GRADE APPROX. 10.50\''. The bottom of the pond is labeled 'T.O. BANK ELEV. 10.50\''. The bottom of the pond is also labeled 'INVERT ELEV. 7.63\''. The diagram is labeled 'E/W SECTION' at the bottom.

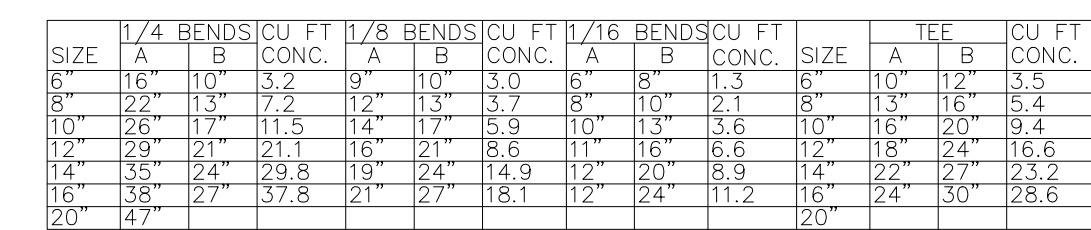
Diagram illustrating a preformed expansion joint material. The material is shown as a cross-section with a width of $\frac{3}{8}$ " and a height of 4". The material is labeled "PREFORMED EXPANSION JOINT MATERIAL". The joint is labeled "EXPANSION JOINT".

The diagram illustrates the required dimensions and components for a sidewalk and utility strip at a street intersection. Key features include:

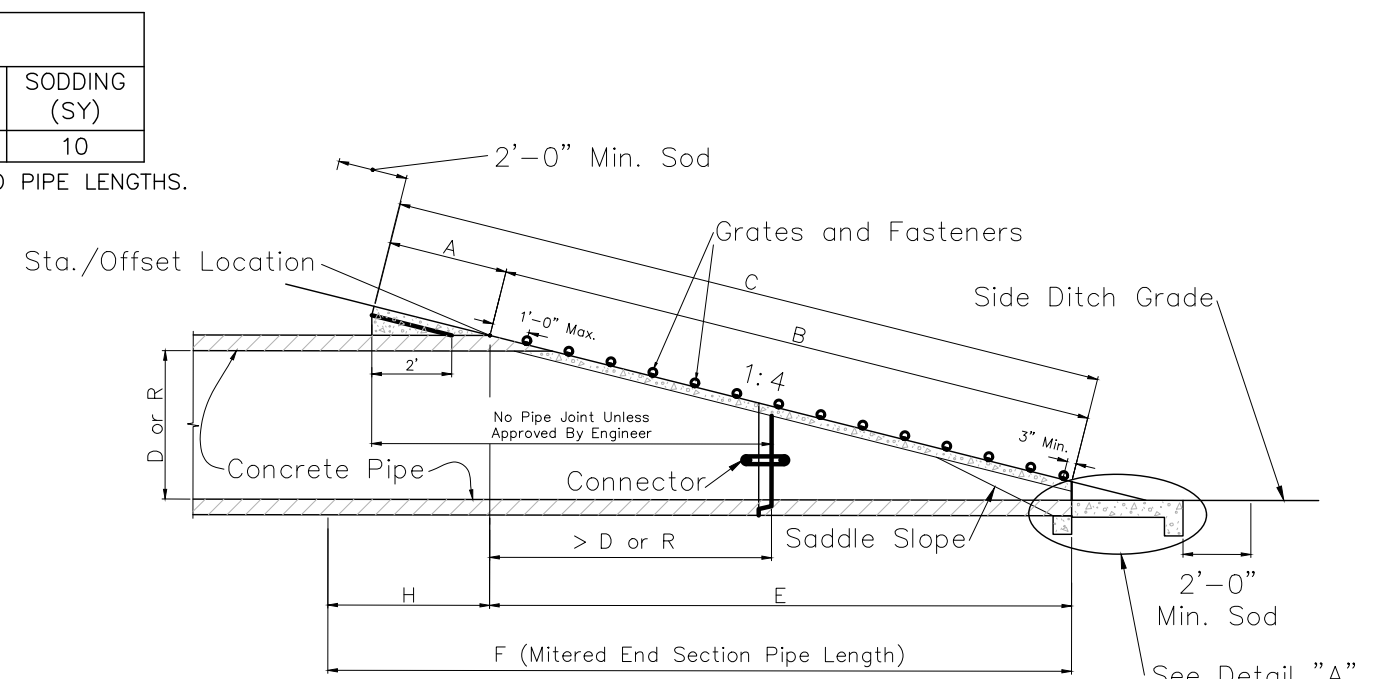
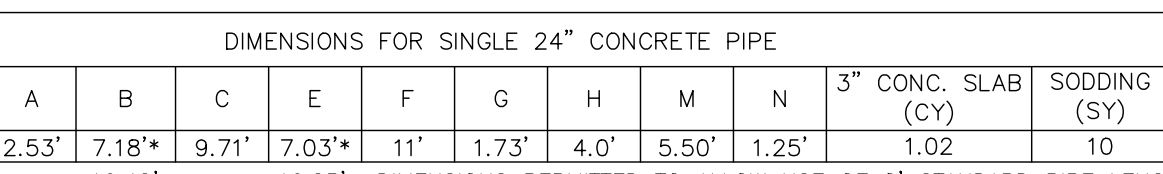
- Utility Strip (Grass Or Pavt.):** The area between the sidewalk and the street.
- Sidewalk:** The pedestrian path, with a width of $4' - 0"$ (Min).
- Sidewalk Curb (Where Necessary):** A curb is shown at the intersection corner.
- Ramp:** A ramp with a slope of $1:12$ is shown for the sidewalk crossing the utility strip.
- Crosswalk:** The crossing area for pedestrians, with a width of $4' - 0"$ (Min).
- Dimensions:** A vertical dimension of $0.02'$ is indicated for the utility strip width, and a horizontal dimension of $4' - 0"$ (Min) is shown for the sidewalk width.

NOTE:
CROSSWALK WIDTH AND CONFIGURATION VARY;
MUST CONFORM TO INDEX 17344 AND 17346
15' RADIUS CURVE SHOWN FOR CR-L.

K				Scale: NONE	Gillette & Associates, Inc. 20 South 4th Street Fernandina Beach, FL 32034	 GILLETTE & ASSOCIATES, INC. 20 SOUTH 4TH STREET FERNANDINA BEACH, FL 32034 PHONE: (904) 261-8819	ACE HARDWARE EXPANSION	EXPANSION/WAREHOUSE	MISCELLANEOUS DETAILS	REGISTERED DESIGN PROFESSIONAL ASA R. GILLETTE, P.E. FLORIDA P.E. NO. 56177	DATE: 04/06/21	
J				Project Mgr: AG							Certificate of Authorization No. 9332	SHEET DT-1
H				Designed by: AG	DO NOT SCALE THIS DRAWING – DIMENSIONS AND NOTES TAKE PREFERENCE. DRAWING IS REDUCED IF LESS THAN 22" x 34"		STATE ROAD 200 (A-1-A) NASSAU, FLORIDA				Page 8 of 11	
G				Drawn by: EC							QA/QC: NG	Project No. 19-10-16
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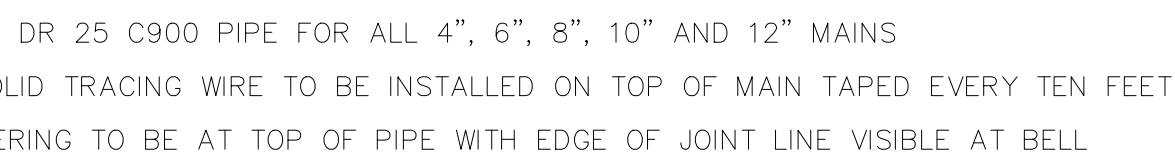
THRUST BLOCKS FOR BENDS & TEE'S



COLOR SCHEME:

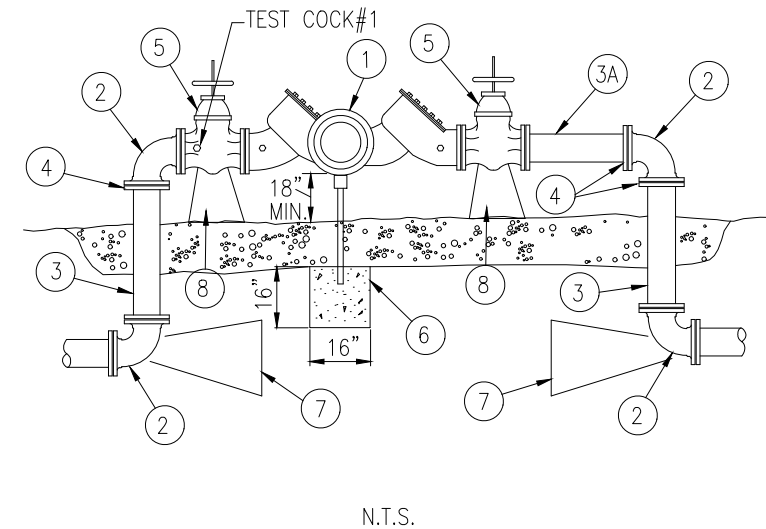
BLUE (SW4079)	1500GPM AND HIGHER
GREEN (SW4085)	1000–1499 GPM
ORANGE (SW4083)	500–999 GPM
RED (SW4081)	LESS THAN 500 GPM

ALL WATER MAINS WILL BE CONSTRUCTED WITH BLUE C900-DR25 PIPE. ALL WATER SERVICES WILL CONSTRUCTED WITH WHITE PVC SCHEDULE 80 PIPE. BLUE SPRAY PAINT WILL BE APPLIED TO THE TOP SURFACE. JOINT RESTRAINERS MAY BE USED IN PLACE OF THRUST BLOCKS ON C900, DR25 PIPE. WITH APPROVAL OF THE CITY UTILITIES DEPARTMENT.

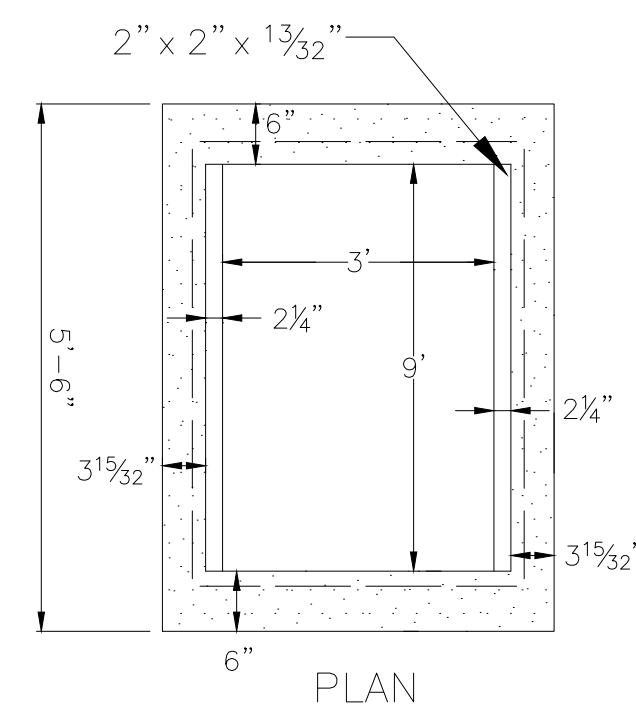


M A T E R I A L S		
ITEM	Q U A N T .	D E S C R I P T I O N
1	1	2.5"-10" VALVE, DOUBLE CHECK OR REDUCED PRESSURE
2	4	2.5"-10" BEND - 90° F-F
3	2	2.5"-10" D.I.P. (48" LONG) F-P-PE
3A	1	2.5"-10" D.I.P. (24" LONG) F-PE (OPT.X)
4	3	2.5"-10" FLANGE, D.I.P.
5	2	2.5"-10" VALVE, GATE, D.I., F-F, OS+Y (RESILIENT SEAT)
6	1	2" IRON PIPE/CONCRETE FOUNDATION
7	2	THRUST BLOCK
8	2	SUPPORT FOUNDATION UNDER VALVES (6" AND LARGER SIZES)

LARGE WATER SERVICE
DOUBLE CHECK AND REDUCED PRESSURE
BACKFLOW PREVENTION
SINGLE SERVICE: 2 1/2" - 10"

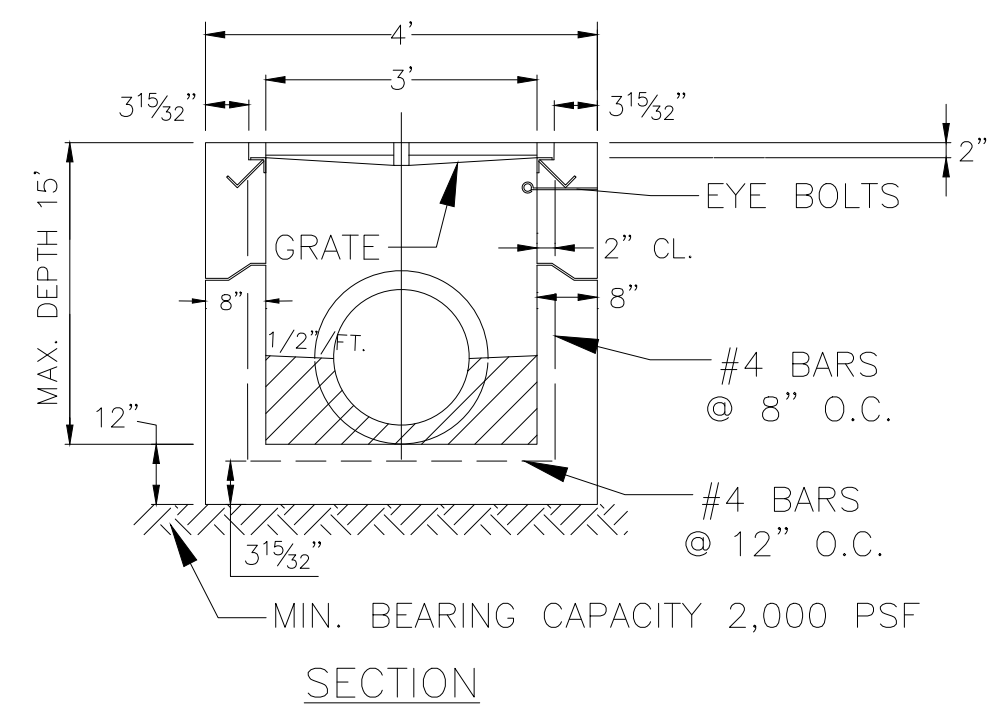


BACKFLOW PREVENTER



NOTES:

1. CONCRETE DESIGN STRENGTH 4,000 PSI
2. PIPES SHALL BE FLUSH WITH INSIDE WALL
3. SLOT OPENING SHALL NOT BE IN WALLS WITH RATE SEAT



TYPE C INLET DETAIL

MINIMUM LENGTH TO BE RESTRAINED ON EACH SIDE OF FITTING (FEET)								
PIPE SIZE	11 1/4	22 1/2	45	90	TEE	VALVE	CAP	REDUCER
4	2	4	7	18	20	39	39	N/A
6	2	5	10	25	20	55	55	28
8	3	6	13	32	20	72	72	30
10	4	8	16	38	20	86	86	29
12	4	9	19	45	20	102	102	50
16	6	11	23	57	20	131	131	30

BELL RESTRAINT REQUIREMENTS

K			
J			
I			
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F	EC	04/06/21	REVISED PER COUNTY FIRE COMMENTS
E	EC	07/13/20	REMOVABLE END OF ROAD MARKERS
D	EC	06/18/20	END OF ROAD OBJECT MARKERS ADDED
C	EC	06/16/20	ISSUE FOR FDOT
B	EC	05/26/20	REVISED PER NASSAU COUNTY COMMENTS
A	EC	04/01/20	NASSAU COUNTY ENGINEERING REVIEW
No.	By	Date	Revision

Scale:	NONE
Project Mgr:	AG
Designed by:	AG
Drawn by:	EC
QA/QC:	NG

Gillette & Associates, Inc.
20 South 4th Street
Fernandina Beach, FL 32034

Certificate of Authorization No. 9332

DO NOT SCALE THIS DRAWING - DIMENSIONS
AND NOTES TAKE PREFERENCE. DRAWING IS
REDUCED IF LESS THAN 22" x 34"

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ACE HARDWARE EXPANSION

STATE ROAD 200 (A-1-A)
NASSAU, FLORIDA

EXPANSION/WAREHOUSE

WATER DETAILS

REGISTERED DESIGN PROFESSIONAL

DATE: 04/06/21

Sheet
DT-2

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Project No. 19-10-16

	NOTE: - DEPTH OF CLEANOUT SHALL BE SET BY DISTANCE TO HOUSE CONNECTION @ 1/4" PER FOOT, PLUS ONE FOOT. - CONTRACTOR TO COORDINATE DEPTH WITH DEVELOPER.	NOTE: - SEWER MAIN SHALL BE ENCASED AS SHOWN ON THE ABOVE DETAIL WHERE LESS THAN 18 INCHES OF VERTICAL CLEARANCE IS MAINTAINED BETWEEN WATER MAIN AND SEWER MAIN. - CLASS 51 STEEL CASING SHALL BE SIZED FOR 2 INCHES PLUS THE OUTSIDE DIAMETER OF THE CARRIER PIPE JOINT. - THE ABOVE DETAIL APPLIES TO WATER MAINS 2 INCH DIAMETER AND LARGER.
BEDDING DETAILS	CLEANOUT	ENCASEMENT AT WATER LINE
	NOTE: - SEWER SERVICE SHALL BE INSTALLED 4'-0" INSIDE PROPERTY LINES. - TEMPORARY 4"x4"x8" POST, PAINTED RED AT TOP, TO BE INSTALLED FOR AIDING IN THE PROTECTION OF SEWER CLEAN OUTS. THE POST SHALL EXTEND 4' ABOVE GRADE. - CONNECTION FROM HOUSE TO UWF SYSTEMS SHALL BE A HARD CONNECTION. FLEXIBLE CONNECTIONS SHALL NOT BE USED.	1. ALL MANHOLES SHALL BE PRECAST CONCRETE AND CONFORM TO ASTM C-478 STANDARDS. MANHOLE CONES AND RISERS SHALL BE CONSTRUCTED OF 4,00 PSI, TYPE II CEMENT WITH RIVER ROCK OR GRANITE AGGREGATE. 2. ALL PIPES SHALL BE CONNECTED TO THE MANHOLE USING A LOCK JOINT FLEXIBLE MANHOLE SLEEVE (ASTM C-923) OR APPROVED EQUAL. 3. THE EXTERIOR AND INTERIOR OF THE MANHOLE SHALL BE COATED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS WITH FABERTITE AS MANUFACTURED BY BRIGGS BITUMINOUS COMPOSITION COMPANY. 4. AN INSIDE PVC DROP MANHOLE (TYPE "B") SHALL BE REQUIRED FOR MANHOLES WHICH HAVE A DISTANCE OF 18 INCHES OR GREATER BETWEEN INFLUENT PIPE INVERT AND EFFLUENT PIPE INVERT. ALL OTHER DROPS SHALL HAVE A SLIDE CONSTRUCTED TO DIRECT THE FLOW INTO THE INVERT CHANNEL. 5. SEWER SERVICES SHALL BE CAST IRON IF 2FEET OF GROUND COVER CANNOT BE MAINTAINED OVER THE SERVICE LINE. 6. ALL DUCTILE IRON SEWER PIPE, WHERE SPECIFIED, SHALL BE CLASS 51 AND COMPLY WITH ANSI/AWWA C150/A21.50 AND ANSI/AWWA C151/A21.51. DUCTILE IRON PIPE SHALL BE PROVIDED WITH A FACTORY APPLIED INTERIOR POLYETHYLENE LINING IN ACCORDANCE WITH ANSI/ASTM D1248. 7. THE MAXIMUM NUMBER OF DIPS IS ONE, 1-INCH DIP PER 135 LF OF PIPE. NO MORE THAN ONE DIP PER 135 LF OF PIPE. A DIP IS DEFINED AS A CHANGE IN ELEVATION OF 0.5" OR GREATER.
C.I. TO PVC COUPLING ADAPTER	TYPICAL SEWER SERVICE	GRAVITY SEWER STANDARD SPECIFICATIONS

K				Scale: NONE	Gillette & Associates, Inc. 20 South 4th Street Fernandina Beach, FL 32034	 GILLETTE & ASSOCIATES, INC. 20 SOUTH 4TH STREET FERNANDINA BEACH, FL 32034 PHONE: (904) 261-8819	ACE HARDWARE EXPANSION	EXPANSION/WAREHOUSE	SEWER DETAILS	REGISTERED DESIGN PROFESSIONAL ASA R. GILLETTE, P.E. FLORIDA P.E. NO. 56177	DATE: 04/06/21	
J				Project Mgr: AG							Certificate of Authorization No. 9332	Sheet DT-3
I				Designed by: AG	DO NOT SCALE THIS DRAWING — DIMENSIONS AND NOTES TAKE PREFERENCE. DRAWING IS REDUCED IF LESS THAN 22" x 34"		STATE ROAD 200 (A-1-A)	NASSAU, FLORIDA			Page 10 of 11	
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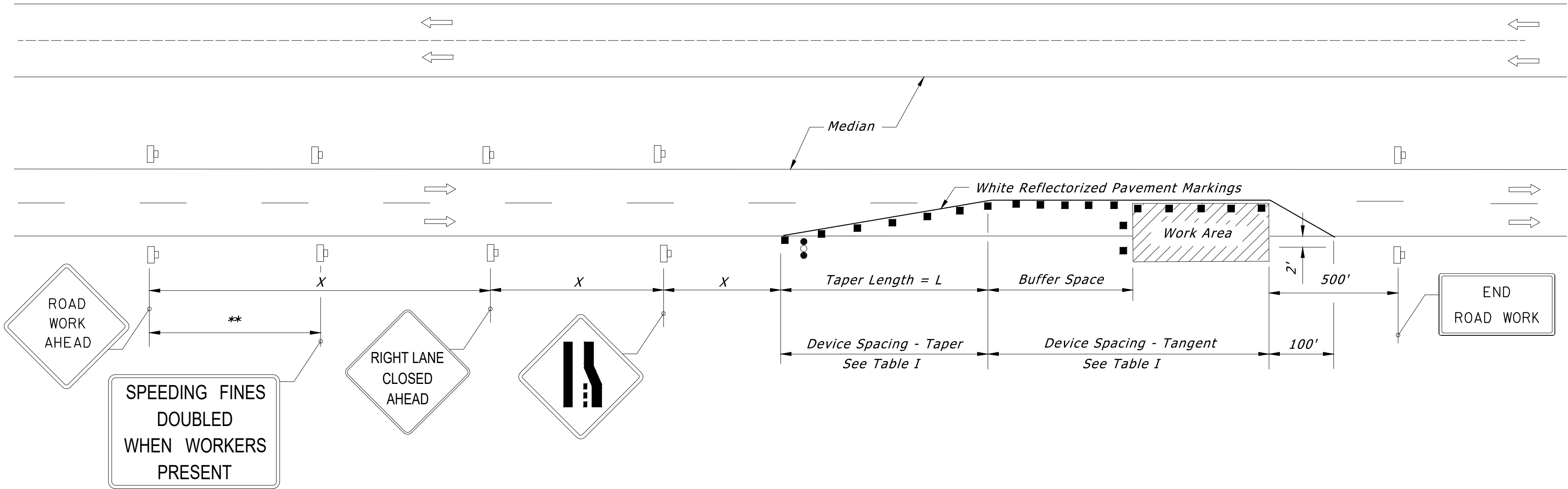


Table I Device Spacing			
Max. Distance Between Devices (ft.)			
Cones or Tubular Markers		Type 1 or Type II Barricades or Vertical Panels or Drums	
Taper	Tangent	Taper	Tangent
25	50	30	50

BUFFER SPACE AND TAPER LENGTH

Buffer Space = 360 ft.
W = Width of lateral transition in feet
S = Posted speed limit (mph) = 45 mph
L = Taper Length = WS = 540 ft. for 12' Lateral Transition

When Buffer Space cannot be attained due to geometric constraints, the greatest attainable length shall be used, but not less than 200 ft.

DURATION NOTES

- Temporary white edgeline may be omitted for work operations less than 3 consecutive calendar days.
- For work operations up to approximately 15 minutes, signs, channelizing devices, arrow board, and buffer space may be omitted if all of the following conditions are met:
 - Speed limit is 45 mph or less.
 - No sight obstructions to vehicles approaching the work area for a distance equal to the buffer space and the taper length combined.
 - Volume and complexity of the roadway has been considered.
 - The closed lane is occupied by a class 5 or larger, medium duty truck(s) with a minimum gross weight vehicle rating (GWVR) of 16,001 lb with high-intensity, rotating, flashing, oscillating, or strobe lights mounted above the cab height and operating.
- For work operations up to 60 minutes, arrow board and buffer space may be omitted if conditions a, b, and c in DURATION NOTE 2 are met, and vehicles in the work area have high-intensity, rotating, flashing, oscillating, or strobe lights operating.

CONDITIONS

WHERE ANY VEHICLE, EQUIPMENT, WORKERS OR THEIR ACTIVITIES ENCROACH ON THE LANE ADJACENT TO EITHER SHOULDER AND THE AREA 2' OUTSIDE THE EDGE OF TRAVEL WAY.

DISTANCE BETWEEN SIGNS

A-1-A Work Zone Speed = 45 mph
X = Sign Spacing = 350 ft.
** = Midway between signs = 175 ft.

GENERAL NOTES

- Work operations shall be confined to one traffic lane, leaving the adjacent lane open to traffic.
- On undivided highways the median signs as shown are to be omitted.
- When work is performed in the median lane on divided highways, the channelizing device plan is inverted and left lane closed and lane ends signs substituted for the right lane closed and lane end signs.

The same applies to undivided highways with the following exceptions:
a. Work shall be confined within on median lane.
b. Additional barricades, cones, or drums shall be placed along the centerline abutting the work area and across the trailing end of the work area.

When work on undivided highways occurs across the centerline so as to encroach on both median lanes, the inverted plan is applied to the approach of both roadway.

- Signs and traffic control devices are to be modified in accordance with INTERMITTENT WORK STOPPAGE details (Index 102-613 sheet 2) when no work is being performed and the highway is open to traffic.
- The two channelizing devices directly in front of the work area may be omitted provided vehicles in the work area have high-intensity rotating, flashing, oscillating, or strobe lights operating.
- When paved shoulders having a width of 8 ft. or more are closed, channelizing devices shall be used to close the shoulder in advance of the merging taper to direct vehicular traffic to remain within the travel way. See Index 102-612 for shoulder taper formulas.
- When a side road intersects the highway within the TTC zone, additional TTC devices shall be placed in accordance with other applicable TCZ Indexes.
- This TCZ plan does not apply when work is being performed in the middle lane(s) of a six or more lane highway. See Index 102-614.
- For general TCZ requirements and additional information, refer to Index 102-600.

SYMBOLS:

- Work Area
- Channelizing Device (See Index 102-600)
- Work Zone Sign
- Advance Warning Arrow Board

	FY 2020-21 STANDARD PLANS	MULTILANE WORK WITHIN TRAVEL WAY MEDIAN OR OUTSIDE LANE	INDEX 102-613
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A-1-A WORK ZONE SPEED 45 MPH

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