

PDF 2024-03-26 09:56
C:\PROJECTS\2024\03\20240326\GREEN COVE MULTITASK\PERMITS\CONSTRUCTION DOCUMENTS\2024 - COVER SHEET.DWG, L1, 3/11/2024, 09:56 PM, 0416, 0416, E. MATTHEWS DESIGN GROUP, INC.

CONSTRUCTION PLANS FOR PRESERVEAT GREEN COVE SPRINGS CITY OF GREEN COVE SPRINGS



Digitally signed
by Alexander R
Acree
Date:
2025.03.11
16:13:51 -04'00'

GENERAL NOTES:

A. TOPOGRAPHIC BOUNDARY SURVEY, INCLUDING PROPERTY LINES, LEGAL DESCRIPTION EXISTING UTILITIES, SITE TOPOGRAPHY WITH SPOT ELEVATIONS, OUTSTANDING PHYSICAL FEATURES AND EXISTING STRUCTURE LOCATIONS WAS PROVIDED BY THE FOLLOWING COMPANY, AS CONTRACTORS TO THE OWNER:

A & J LAND SURVEYORS, INC
5847 LUELLA STREET
JACKSONVILLE, FLORIDA 32207
CONTACT: JONATHAN B. BROWN
PHONE: (904) 346-1736

MATTHEWS DESIGN GROUP, LLC AND ITS ASSOCIATES WILL NOT BE HELD RESPONSIBLE FOR THE ACCURACY OF THE SURVEY OR FOR DESIGN ERRORS OR OMISSIONS RESULTING FROM SURVEY INACCURACIES.

B. ADDITIONAL PROJECT INFORMATION HAS BEEN PROVIDED BY THE FOLLOWING SUB-CONSULTANT AS CONTRACTOR TO THE OWNER:

UNIVERSAL ENGINEERING SCIENCES
TYPE: GEOTECHNICAL
5561 FLORIDA MINING BOULEVARD SOUTH
JACKSONVILLE, FLORIDA 32257-3648
CONTACT: STEPHEN R. WEAVER, P.E.
PHONE: (904) 296-0757

C. THE GENERAL CONTRACTOR SHALL NOTIFY THE OWNER/ENGINEER OF ANY DISCREPANCIES BETWEEN THE SURVEY AND FIELD VERIFICATION OF INFORMATION ABOVE OR BELOW GROUND THAT MAY BE CRITICAL TO THE DESIGN OF THIS PROJECT. THE GENERAL CONTRACTOR WILL BE HELD SOLELY RESPONSIBLE FOR AND SHALL TAKE ALL PRECAUTIONS NECESSARY TO AVOID PROPERTY DAMAGE TO ADJACENT PROPERTIES DURING THE CONSTRUCTION OF THIS PROJECT.

WARRANTY / DISCLAIMER:

THE DESIGNS REPRESENTED IN THESE PLANS ARE IN ACCORDANCE WITH ESTABLISHED PRACTICES OF CIVIL ENGINEERING FOR THE DESIGN FUNCTIONS AND USES INTENDED BY THE OWNER AT THIS TIME. HOWEVER, NEITHER THE ENGINEER NOR ITS PERSONNEL CAN OR DO WARRANT THESE DESIGNS OR PLANS AS CONSTRUCTED EXCEPT IN THE SPECIFIC CASES WHERE THE ENGINEER IS INVOLVED WITH THE PHYSICAL CONSTRUCTION ON AN ONGOING BASIS AT THE SITE.

MATTHEWS DESIGN GROUP (MDG) IS THE PROJECTS ENGINEER OF RECORD (EOR). MDG IS NOT A GENERAL CONTRACTOR, UTILITY CONTRACTOR, SITE CONTRACTOR, OR ANY OTHER TYPE OF CONTRACTOR.

SAFETY NOTICE TO CONTRACTOR:

IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. ANY CONSTRUCTION OBSERVATION BY THE ENGINEER OF THE CONTRACTOR'S PERFORMANCE IS NOT INTENDED TO INCLUDE REVIEW OF THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURES IN, ON OR NEAR THE CONSTRUCTION SITE.

CONSTRUCTION TESTING:

CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COORDINATION, TESTING, LABORATORY ANALYSES, REPORTS, COSTS, ETC., CONCERNING SOILS AND PAVEMENT RELATED DESIGN REQUIREMENTS AND SPECIFICATIONS AS SET FORTH IN THESE PLANS.

AS-BUILT SURVEY NOTE:

UPON COMPLETION OF CONSTRUCTION, CONTRACTOR IS REQUIRED TO PROVIDE OWNER / ENGINEER WITH A SIGNED AND SEALED AS-BUILT SURVEY AND ANY OTHER RELATED CONSTRUCTION DOCUMENTS, IN ACCORDANCE WITH APPLICABLE PERMITTING AGENCY REQUIREMENTS, AS THE BASIS FOR PROJECT CERTIFICATIONS AND CLOSE-OUT.

RIGHT-OF-WAY:

ANY AND ALL WORK CONDUCTED WITHIN THE CITY OF GREEN COVE SPRINGS RIGHT-OF-WAYS MUST BE IN ACCORDANCE WITH THE APPLICABLE LAND DEVELOPMENT CODES.

PRE-CONSTRUCTION MEETING:

IT IS THE RESPONSIBILITY OF THE APPLICANT TO SCHEDULE A PRE-CONSTRUCTION / PRE PERMIT ISSUANCE MEETING WITH CITY OF GREEN COVE SPRINGS STAFF AFTER PLANS HAVE BEEN RELEASED FOR CONSTRUCTION BY THE CITY AND PRIOR TO STARTING ANY SITE ACTIVITIES. THE PRE-CONSTRUCTION MEETING WILL BE HELD IN CONJUNCTION WITH THE CITY MANDATORY PRE-CONSTRUCTION MEETING. HOWEVER, IF THE PROJECT FALLS OUTSIDE OF CITY JURISDICTION, PLEASE CALL CITY OF GREEN COVE SPRINGS TO SCHEDULE MEETING.

J. ALL ELEVATIONS SHOWN HEREIN ARE REFERENCED TO NAVD 88.

FIRE SERVICES

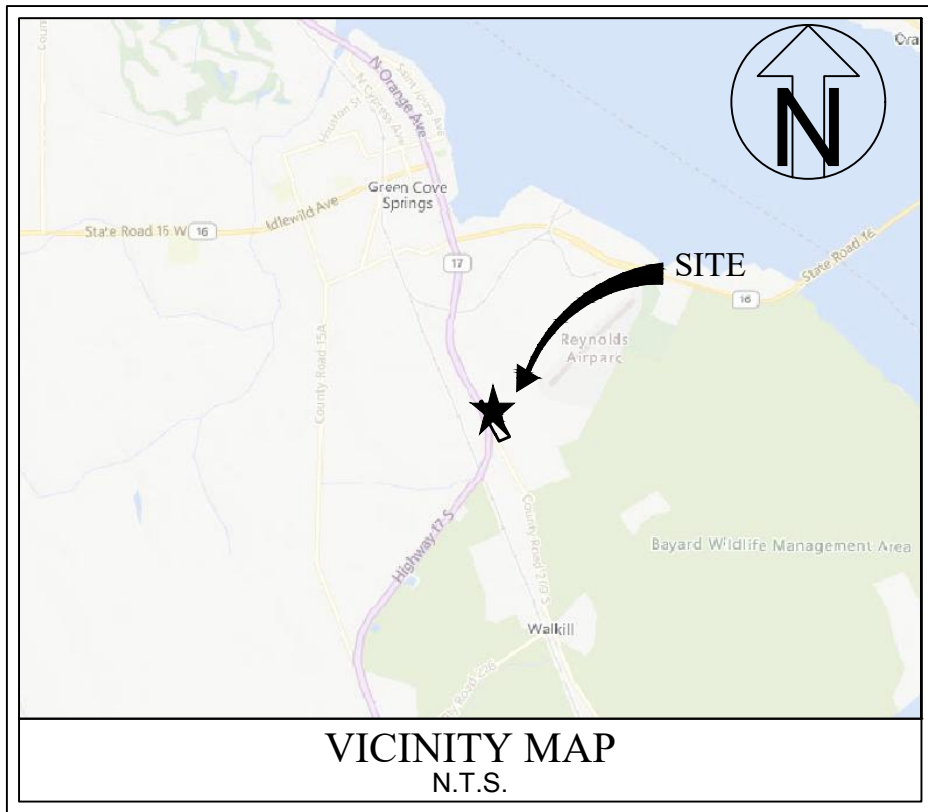
WHEN VERTICAL CONSTRUCTION BEGINS, FIRE DEPT. ACCESS IS REQUIRED

*FIRE DEPT ACCESS ROADS SHALL BE PROVIDED AT THE START OF THE PROJECT AND SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION. (NFPA 1, CHP 16)

*FIRE DEPT ACCESS ROAD SHALL BE UNOBSTRUCTED 20 FEET WIDE, STABILIZED SURFACE TO SUPPORT 80,000 LBS AND PROVIDE TURNAROUND FOR A 50 FOOT FIRE APPARATUS. (NFPA 1, CHP 18)



Know what's below.
Call before you dig.



OWNER:

PC ACQUISITION LLC
3475 PIEDMONT ROAD NE, SUITE 1125
ATLANTA, GA 30305
PHONE: (803) 381-5850
CONTACT: JOHN D. CATTANO

PREPARED BY:

Matthews | **DCCM**

P.O. BOX 3126, 7 WALDO STREET
ST. AUGUSTINE, FL 32084
PHONE: 904.826.1334
mdg.info@dccm.com

PERMITS / APPROVALS

CITY OF GREEN COVE SPRINGS
CLAY COUNTY UTILITY AUTHORITY
ST JOHNS RIVER WATER MANAGEMENT DISTRICT
FDEP - WATER
FDEP - SEWER
FDOT

PERMIT NO.

SUBMITTED

RECEIVED

RESOURCE LIST

CLAY COUNTY UTILITY AUTHORITY	FDOT	SJRWMD - PALATKA HEADQUARTERS
3176 OLD JENNINGS RD	3600 DOT ROAD	PO BOX 1429
MIDDLEBURG, FL 32068	ST. AUGUSTINE, FLORIDA 32084	PALATKA, FL 32178
(904) 272-5999	(904) 825-5026	386-329-4500
CONTACT: NATHAN D. GOTTSCHALK		

FDEP - WATER & SEWER

8800 BAYMEADOWS WAY, SUITE 100
JACKSONVILLE, FLORIDA 32256
(904) 256-1700

FLOOD CERTIFICATION:

THIS SITE IS SHOWN IN FLOOD ZONE "X" AS DESIGNATED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY, FLOOD INSURANCE RATE MAP, COMMUNITY PANEL NUMBER 12109C0257H, FOR CITY OF GREEN COVE SPRINGS, FLORIDA, EFFECTIVE DECEMBER 7, 2018.

COVER SHEET

PRESERVEAT GREEN COVE SPRINGS
CITY OF GREEN COVE SPRINGS

PREPARED FOR

PC ACQUISITION LLC

Matthews | **DCCM**

P.O. BOX 3126, 7 WALDO STREET
ST. AUGUSTINE, FL 32084
PHONE: 904.826.1334 • FAX: 904.826.4547
INFO@MDGINC.COM

REVISIONS

NO.	DATE	DESCRIPTION

DESIGN BY	DTS	22034
DRAWN BY	DTS	
CHECK BY	ARA	
DATE	03-12-25	
JOB NO.		

Matthews | **DCCM**

P.O. BOX 3126, 7 WALDO STREET
ST. AUGUSTINE, FL 32084
PHONE: 904.826.1334 • FAX: 904.826.4547
INFO@MDGINC.COM

SHEET NO.:

1

OF 25

This document is the property of Matthews Design Group, LLC. It is to be used only for the project and location specified on the title block. It is not to be reproduced, stored in a retrieval system, or transmitted in any form or by any means, electronic, mechanical, photocopying, recording, or by any information storage and retrieval system, without the prior written permission of Matthews Design Group, LLC.

MATTHEWS DESIGN GROUP (MDG) IS THE PROJECTS ENGINEER OF RECORD (EOR). MDG IS NOT A GENERAL CONTRACTOR, UTILITY CONTRACTOR, SITE CONTRACTOR, OR ANY OTHER TYPE OF CONTRACTOR.

2. ALL WORK AND MATERIALS SHALL BE IN COMPLETE ACCORDANCE WITH ALL RELEVANT SECTIONS OF CITY OF GREEN COVE SPRINGS LAND DEVELOPMENT CODE, (LATEST REVISION) AND ALL CITY STANDARD DETAILS.

3. ALL WORK SHALL BE PERFORMED IN A SAFE MANNER. ALL SAFETY RULES AND GUIDELINES OF OSHA SHALL BE FOLLOWED. THE CONTRACTOR SHALL BE WHOLLY RESPONSIBLE FOR ANY INJURIES OF THEIR EMPLOYEES, AND FOR ANY DAMAGE TO PRIVATE PROPERTY OR PERSONS DURING THE COURSE OF THIS PROJECT. ALL COSTS ASSOCIATED WITH ANY LIABILITY TO OSHA REGULATIONS AND THE FLORIDA TRENCH SAFETY ACT MUST BE INCLUDED IN THE CONTRACTORS BID.

4. PRIOR TO CONSTRUCTION, THE SITE CONTRACTOR SHALL VERIFY ALL SURVEY CONTROL POINTS AS PROVIDED IN THE BOUNDARY SURVEY. THE CONTRACTOR SHALL NOTIFY THE OWNER AND ENGINEER OF ANY DISCREPANCIES.

5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VISITING THE JOB SITE PRIOR TO PREPARING THE BID FOR THE PURPOSE OF FAMILIARIZING THEMSELVES WITH THE NATURE AND THE EXTENT OF THE WORK AND LOCAL CONDITIONS, EITHER SURFACE OR SUB-SURFACE, 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 ANY DEFICIENCY IN PERFORMANCE UNDER THE CONSTRUCTION CONTRACT. THE CONTRACTOR IS ALSO URGED TO TAKE COLOR PHOTOGRAPHS ALONG THE ROUTE OF OR WITHIN THE PROJECT TO RECORD EXISTING CONDITIONS PRIOR TO CONSTRUCTION, AND TO AID IN RESOLVING POSSIBLE FUTURE ISSUES THAT MAY OCCUR DUE TO THE CONSTRUCTION OF THE PROJECT.

6. 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 REPLACEMENT. THE AMOUNT OF SITE BORROW THAT WILL BE REQUIRED. FAILURE OF THE CONTRACTOR TO IDENTIFY/QUANTIFY THE AMOUNT OF UNSUITABLE MATERIAL TO BE REMOVED AND REPLACED DURING THE BID PROCESS WILL NOT RELIEVE THE CONTRACTOR OF COMPLETE PERFORMANCE UNDER THE CONSTRUCTION CONTRACT.

7. ALL IMPROVEMENTS SHOWN ARE TO BE WARRANTED BY THE CONTRACTOR TO THE DEVELOPER AND CITY OF GREEN COVE SPRINGS FOR A PERIOD OF ONE YEAR FROM DATE OF ACCEPTANCE BY THE OWNER AND CITY OF GREEN COVE SPRINGS.

8. FOR BOUNDARY, ROADWAY, AND BUILDING GEOMETRY INFORMATION SEE ENGINEERING SITE PLAN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE BUILDING DIMENSIONS SHOWN ON THE ENGINEERING 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.

9. UNLESS DIRECTED OTHERWISE BY THE OWNER OR THE ENGINEER, THE CONTRACTOR WILL CONTRACT WITH AN INDEPENDENT TESTING LABORATORY TO PERFORM MATERIAL TESTING AND SOIL TESTING IN ACCORDANCE WITH THE REQUIREMENTS OF THE AMOUNT OF THE TYPE OF BORROW THAT WILL BE REQUIRED. MATERIALS TO BE TESTED ARE LOCATED IN PAVEMENT AREAS, CONCRETE TESTING AND ALL OTHER MATERIAL TESTING. PRIOR TO LIME/CEMENT PLACEMENT, THE PROJECT GEOTECHNICAL ENGINEER SHALL MAKE RECOMMENDATION FOR UNDERDRAIN PLACEMENT.

10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND INSURANCE REQUIRED FOR THE PROJECT INCLUDING CITY OF GREEN COVE SPRINGS RIGHT-OF-WAY PERMITS FOR WORK IN THE CITY RIGHT-OF-WAY OR EASEMENT.

11. 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.

12. THE LOCATION OF ALL EXISTING UTILITIES, STRUCTURES AND IMPROVEMENTS SHOWN ON THE DRAWINGS IS BASED ON LIMITED TO FIELD OBSERVATION 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 DIFFERENT FROM THE ACTUAL LOCATIONS, THE CONTRACTOR SHALL NOTIFY THE OWNER AND ENGINEER OF THE DISCREPANCY. THIS DISCREPANCY SHOULD BE RESOLVED PRIOR TO COMMENCING CONSTRUCTION. THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHEN WORKING IN AREAS NEAR EXISTING UTILITIES AND IMPROVEMENTS AND SHALL BE RESPONSIBLE FOR AND SHALL REPAIR OR PAY FOR ALL DAMAGE MADE TO EXISTING UTILITIES OR OTHER IMPROVEMENTS. PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION, THE CONTRACTOR SHALL VERIFY ALL GRADES, INVERTS AND TYPE OF MATERIAL OF EXISTING UTILITIES TO WHICH THEY SHALL CONNECT, AND NOTIFY THE OWNER AND ENGINEER OF ANY DISCREPANCIES.

13. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE CIVIL ENGINEER TO DETERMINE IF THIS PROJECT IS WITHIN THE CITY'S JURISDICTION FOR INSPECTION. IF SO, THEN IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE CITY FOR A PRE-CON MEETING FOR INSPECTIONS.

14. DUE TO THE PROXIMITY TO EXISTING RESIDENTIAL HOMES THE APPLICANT SHOULD LIMIT HOURS OF OPERATION TO DAYTIME HOURS AND PROVIDE MITIGATION TO NOISE FROM PUMPS & 24 HOUR DEWATERING ACTIVITIES ARE REQUIRED.

15. THE BUILDING FOOTPRINTS SHOWN HEREON ARE APPROXIMATE. SEE ARCHITECTURAL PLANS FOR EXACT BUILDING DIMENSIONS.

16. ALL STOP SIGNS SHALL BE FINISHED WITH DIAMOND GRADE HIGH REFLECTIVITY SURFACE.

17. ALL STOP BARS SHALL BE THERMO-PLASTIC MATERIAL.

PAVING & DRAINAGE NOTES:

1. "AS-BUILT" DRAWINGS-- DRAINAGE AS-BUILTS PROVIDED TO CITY OF GREEN COVE SPRINGS AND THE ST. JOHNS COUNTY WATER MANAGEMENT DISTRICT SHALL 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 GREEN COVE SPRINGS STANDARDS AND SPECIFICATIONS AND THE STATE OF FLORIDA. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROCESS THE "AS-BUILT" DRAWINGS FOR APPROVAL BY CITY OF GREEN COVE SPRINGS. IN ADDITION TO THE DRAINAGE SYSTEM THE "AS-BUILTS" SHALL SHOW THE ELEVATIONS AND LOCATION OF THE TOP OF BANK, WATER LEVEL, ANY POINTS OF CHANGE IN SLOPE, TOE OF SLOPE AND POND BOTTOM AT 10' MAXIMUM INTERVALS. ALSO POND BANK FOR ALL POND CONSTRUCTION. ALL DIMENSIONS AND ELEVATIONS ON THE CONTROL STRUCTURE DETAILS SHALL BE SHOWN ON AS-BUILT DRAWINGS.

2. ALL AREAS SHOWN TO BE FILLED SHALL BE CLEARED AND GRUBBED IN ACCORDANCE WITH CITY OF GREEN COVE SPRINGS STANDARDS AND SHALL BE FILLED WITH CLEAN STRUCTURAL FILL COMPACTED AND TESTED IN ACCORDANCE WITH THE GEOTECHNICAL INVESTIGATION REPORT.

3. 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.

4. ALL DEBRIS RESULTING FROM ALL ACTIVITIES SHALL BE DISPOSED OF OFF-SITE BY CONTRACTOR.

5. ALL EXCESS SUITABLE AND UNSUITABLE MATERIAL SHALL BE REMOVED FROM THE SITE BY THE CONTRACTOR AT HIS EXPENSE UNLESS DIRECTED OTHERWISE BY ENGINEER OR OWNER.

6. ALL EXISTING TREES TO REMAIN SHALL BE PRESERVED AND PROTECTED.

7. BURNING OF TREES, BRUSH, AND OTHER MATERIAL SHALL BE APPROVED, PERMITTED, AND COORDINATED WITH CITY OF GREEN COVE SPRINGS FIRE MARSHAL.

8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING A PERMANENT STAND OF SOD AND/OR GRASS PER CITY OF GREEN COVE SPRINGS STANDARDS AND MEETING THE NPDES FINAL STABILIZATION REQUIREMENTS.

9. UNSUITABLE MATERIALS UNDER WATER PIPE, SEWER PIPE, STORM PIPE, OR STRUCTURES SHALL BE REMOVED AND REPLACED WITH SELECTED BACKFILL, PROPERLY COMPACTED AT CONTRACTOR'S EXPENSE.

10. 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 AND REPAIR.

11. ALL CLEARING AND GRUBBING REQUIRED FOR ALL ROADWAY, UTILITIES, DITCHES, BERMS, AND BUILDINGS INCLUDED IN THIS PROJECT AND THE CLEARING AND GRUBBING OF ALL RIGHT-OF-WAY OR EASEMENTS SHALL BE CONSIDERED AS PART OF THIS PROJECT.

12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING A DEWATERING PERMIT FROM THE SJRWMD.

13. 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, CREEKS, SWALES AND MUNICIPAL STORM SEWERS), THE CONTRACTOR SHALL TEST THE EFFLUENT (WATER TO BE DISCHARGED) IN ACCORDANCE WITH RULE 62-261.300(2), F.A.C. IF THE TEST RESULTS ON THE EFFLUENT ARE BELOW THE SCREENING VALUES OF RULE 62-261.300(2), F.A.C., THE CONTRACTOR'S RESPONSIBILITY TO PROCESS 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 62-261.300(2), F.A.C. IF THE GROUND WATER EXCEEDS THE SCREENING VALUES OF RULE 62-261.300(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.

14. ALL PIPE LENGTHS ARE SCALED DIMENSIONS, MEASURED FROM CENTER OF STRUCTURE TO END OF MITERED END SECTIONS. STRUCTURES WITHIN FOOT RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH FOOT STANDARDS. ALL DRAINAGE STRUCTURES SHALL BE CONSTRUCTED TO CONFORM WITH CITY REQUIREMENTS AND SHALL BE CONSTRUCTED TO CONFORM WITH CURBING, PROPERTY LINES, AND LOW POINTS AS SHOWN ON THE PLANS.

15. CONTRACTOR SHALL INSURE THAT ALL DRAINAGE STRUCTURES, PIPES, ETC. ARE CLEAN AND FUNCTIONING PROPERLY AT TIME OF ACCEPTANCE.

- ### GENERAL SIGNING & MARKING NOTES:
1. ALL STRIPPING SHALL CONFORM TO CITY OF GREEN COVE SPRINGS AND/OR FDOT SPECIFICATIONS.
 2. MATCH EXISTING PAVEMENT MARKINGS AT THE BEGINNING AND ENDING OF PROJECT AND ALL SIDE STREETS.
 3. SIGNS SHALL BE PLACED IN ACCORDANCE WITH INDEX NO. 700-010, AND 700-101.
 4. SIGN ASSEMBLY LOCATIONS SHOWN ON PLANS WHICH ARE IN CONFLICT WITH LIGHTING, UTILITIES, DRIVEWAYS, CURB CUTS, ETC. SHALL BE ADJUSTED AS DIRECTED BY ENGINEER.
 5. EXISTING SIGNS TO BE REMOVED SHALL BE DELIVERED AND STOCKPILED ON SITE IN THE MATERIALS STORAGE AREA AND RETURNED TO THE OWNER.
 6. COST FOR SIGNING AND MARKING, IF ANY, SHALL BE INCLUDED IN THE COSTS FOR PAVEMENT.

1. ALL STRIPING SHALL CONFORM TO CITY OF GREEN COVE SPRINGS AND/OR FDOT SPECIFICATIONS

2. MATCH EXISTING PAVEMENT MARKINGS AT THE BEGINNING AND ENDING OF PROJECT AND ALL SIDE STREETS.
3. SIGNS SHALL BE PLACED IN ACCORDANCE WITH INDEX NO. 700-010, AND 700-101.
4. SIGN ASSEMBLY LOCATIONS SHOWN ON PLANS WHICH ARE IN CONFLICT WITH LIGHTING, UTILITIES, DRIVEWAYS, CURB CUTS, ETC. SHALL BE ADJUSTED AS DIRECTED BY ENGINEER.
5. EXISTING SIGNS TO BE REMOVED SHALL BE DELIVERED AND STOCKPILED ON SITE IN THE MATERIALS STORAGE AREA AND RETURNED TO THE OWNER.
6. COST FOR SIGNING AND MARKING, IF ANY, SHALL BE INCLUDED IN THE COSTS FOR PAVEMENT.

1. SEE SHEET 5 FOR THE TALLY OF TREES TO BE REMOVED

2. ALL UTILITIES SHALL REMAIN IN PLACE AND UNHARMED UNLESS SPECIFICALLY INDICATED OTHERWISE BY THE EROSION CONTROL & DEMOLITION PLAN (SHEET 5).
 3. THE CONTRACTOR IS RESPONSIBLE FOR PROPERLY ABANDONING WELLS OR SEPTIC SYSTEMS FOUND DURING CONSTRUCTION. ABANDONMENT SHALL BE IN ACCORDANCE WITH ALL CITY, STATE REGULATIONS, PER THE REQUIREMENTS SET FORTH IN THE F.A.C.
- WATER AND SEWER NOTES:**
1. REFER TO WATER & SEWER NOTES ON 3.

1. NO CONSTRUCTION ACTIVITY INVOLVING EXCAVATION, DENUDING OR DEMOLITION OF ANY SITE SURFACE OR STOCKPILING OF ANY EARTHEN OR AUDIBLE MATERIALS SHALL BEGIN WITHOUT AN APPROVED PLAN AND/OR WRITTEN CONSENT BY THE CITY OF GREEN COVE SPRINGS PUBLIC WORKS.
2. THE CONTRACTOR SHALL ESTABLISH ALL EROSION CONTROL MEASURES PRIOR TO EXCAVATION, DENUDING OR DEMOLITION OF ANY SITE SURFACE OR STOCKPILING OF ANY EARTHEN OR ERODIBLE MATERIALS.
3. THE CONTRACTOR SHALL MAINTAIN ALL EROSION CONTROL MEASURES THROUGHOUT THE DEVELOPMENT OF THE PROJECT AND SHALL NOT REMOVE ANY EROSION CONTROL MEASURE UNTIL ALL CONTRIBUTING SITE SURFACES AND VEGETATION HAVE BEEN ESTABLISHED AND STABILIZED.

1. NO CONSTRUCTION ACTIVITY INVOLVING EXCAVATION, DENUDING OR DEMOLITION OF ANY SITE SURFACE OR STOCKPILING OF ANY EARTHEN OR AUDIBLE MATERIALS SHALL BEGIN WITHOUT AN APPROVED PLAN AND/OR WRITTEN CONSENT BY THE CITY OF GREEN COVE SPRINGS PUBLIC WORKS.
2. THE CONTRACTOR SHALL ESTABLISH ALL EROSION CONTROL MEASURES PRIOR TO EXCAVATION, DENUDING OR DEMOLITION OF ANY SITE SURFACE OR STOCKPILING OF ANY EARTHEN OR ERODIBLE MATERIALS.
3. THE CONTRACTOR SHALL MAINTAIN ALL EROSION CONTROL MEASURES THROUGHOUT THE DEVELOPMENT OF THE PROJECT AND SHALL NOT REMOVE ANY EROSION CONTROL MEASURE UNTIL ALL CONTRIBUTING SITE SURFACES AND VEGETATION HAVE BEEN ESTABLISHED AND STABILIZED.
4. THE CONTRACTOR SHALL PERFORM DAILY CLEAN UP OF ALL SEDIMENT AND DEBRIS WHICH LEAVES THE PROJECT SITE(S).
5. THE CONTRACTOR IS RESPONSIBLE FOR CLEANING ALL CITY STORM DRAIN SYSTEMS WHICH RECEIVE SEDIMENT OR DEBRIS AS A RESULT OF CONSTRUCTION, STOCKPILING OR DISPOSAL ACTIVITIES. CLEANING OF THE STORM DRAIN WILL OCCUR FROM THE POINT OF INTERCEPT TO THE OUTFALL OF THE SYSTEM OR TO A POINT WITHIN THE SYSTEM WHERE SEDIMENT OR DEBRIS IS NO LONGER PRESENT.
6. RAIN DAYS CLAIMED BY THE CONTRACTOR, DO NOT EXCUSE THE CONTRACTOR OF DAILY INSPECTION AND MAINTENANCE OF ALL SITE EROSION CONTROL MEASURES AND CLEANUP.
7. ALL SEDIMENT COLLECTION SYSTEMS MUST BE MUCKED OUT WHEN 1/3 FULL, MUCKED SEDIMENT MUST BE PROPERLY CONTAINED AND DISPOSED.

1. LOCATE ALL UTILITIES AND SITE LIGHTING CONDUITS BEFORE LANDSCAPE CONSTRUCTION BEGINS.
2. NOTIFY LANDSCAPE ARCHITECT OR DESIGNATED REPRESENTATIVE OF ANY LAYOUT DISCREPANCIES PRIOR TO ANY PLANTING.
3. FERTILIZE ALL PLANTS AT THE TIME OF PLANTING WITH TIME RELEASE FERTILIZER.

1. LOCATE ALL UTILITIES AND SITE LIGHTING CONDUITS BEFORE LANDSCAPE CONSTRUCTION BEGINS.
2. NOTIFY LANDSCAPE ARCHITECT OR DESIGNATED REPRESENTATIVE OF ANY LAYOUT DISCREPANCIES PRIOR TO ANY PLANTING.
3. FERTILIZE ALL PLANTS AT THE TIME OF PLANTING WITH TIME RELEASE FERTILIZER.
4. PLANT MATERIAL SHALL CONFORM TO THE STANDARDS FOR GRADE #1 OR BETTER AS GIVEN IN THE LATEST "GRADES AND STANDARDS FOR NURSERY PLANTS, PARTS I AND II, FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES OR TO THE STANDARDS AS GIVEN IN THE LATEST "AMERICAN STANDARD FOR NURSERY STOCK", AMERICAN NATIONAL STANDARDS INSTITUTE.
5. REMOVE ALL DEAD WOOD AND PRUNE TREES ACCORDING TO THE PRUNING GUIDELINES BY THE INTERNATIONAL SOCIETY OF ARBORICULTURE, 1995 EDITION. IF ARBORIST BELIEVES A LIMB SHOULD NOT BE REMOVED THE ARBORIST SHALL CONTACT THE LANDSCAPE DESIGNER. REMOVE ALL DEBRIS FROM THE SITE TO AN APPROVED OFF-SITE LOCATION. FOLLOW THE "AMERICAN NATIONAL STANDARDS FOR TREE CARE OPERATIONS" AND ANSI Z33.1 GUIDELINES.
6. TREES SHALL HAVE A MINIMUM HEIGHTS OF (8) EIGHT TO (10) TEN FEET AND (2) TWO INCHES OF CALIPER.
7. ALL DISTURBED AREAS MUST BE STABILIZED BY MEANS OF MULCH, SEEDING, OR SOO AS CALLED OUT ON THIS PLAN. IF DISTURBED AREA IS OUTSIDE OF THE LIMITS OF THIS PLAN, AREAS MUST BE STABILIZED WITH EXISTING MATERIAL OR BETTER. I.E. SEEDING OR SODDING.
8. VEGETATION THAT EXCEEDS TWENTY-FIVE (25) FEET IN HEIGHT AT MATURITY SHOULD NOT BE PLANTED CLOSER THAN TEN (10) FEET OF THE VERTICAL PLANE OF AN EXISTING POWER LINE, EXCLUDING SERVICE WIRES.

9. BALLED AND BURLAPPED STRAPPING WIRE, AND ANY SYNTHETIC MATERIAL SHALL BE REMOVED PRIOR TO FINAL INSPECTION. WIRE BASKETS SHOULD BE PULLED AWAY FROM THE TRUNKS. WIRE BASKETS SHOULD BE CUT AWAY FROM THE TOP 1/3 OF THE ROOT BALL.
10. TREES SHALL NOT BE PLANTED CLOSER THAN TEN (10) FEET FROM OTHER TREES UNLESS APPROVED BY THE CITY ADMINISTRATOR. CROWNED TREES SHOULD BE SPACED A MINIMUM OF 20' TO 30'.
11. A MULCH RING OR PINE STRAW OR PINE BARK SHALL BE PROVIDED AT LEAST FIVE (5) FEET IN DIAMETER AND NOT CLOSER THAN SIX (6) INCHES FROM THE TREE TRUNK, FOR ALL NEWLY PLANTED TREES.
12. PINE STRAW OR PINE BARK MULCH SHALL BE PROVIDED A MINIMUM OF FOUR (4) INCHES OF DEPTH AROUND ALL NEWLY PLANTED LANDSCAPING.
13. SHRUB LINES ARE TO BE PLANTED AT THE REQUIRED MINIMUM HEIGHT, NOT BY A CONTAINER SIZE.
14. SOIL IN TREE ISLANDS SHALL HAVE AT LEAST 12" OF SUITABLE SOIL FOR TREE PLANTINGS, AND BE VOID OF ANY CONSTRUCTION DEBRIS OR UNSUITABLE MATERIAL.
15. IRRIGATION SHALL BE PROVIDED WITH AN AUTOMATIC IRRIGATION SYSTEM FOR ALL NEWLY PLANTED MATERIAL, UNLESS AN ALTERNATE MEANS IS APPROVED. ALL TREES SHALL BE IRRIGATED BY BUBBLER TYPE EMITTERS.
16. TREES SHALL NOT BE PLANTED CLOSER THAN 7.5' FROM THE CENTERLINE OF UNDERGROUND UTILITIES.
17. UNLESS OTHERWISE SPECIFIED, NO HIGH VOLUME IRRIGATION IS PROPOSED ON THESE PLANS.
18. UNLESS OTHERWISE SPECIFIED, ALL SOIL SHALL BE BAHIA.

1. ALL EXISTING UTILITIES ARE TO BE ADJUSTED TO FINAL GRADE

2. CONTRACTOR SHALL REVEAL ANY CONFLICTING STRIPING.
- ST JOHNS COUNTY NOTES:**
1. SUBMITTAL OF AS-BUILT SITE SURVEY, INCLUDING BENCHMARKS, IS REQUIRED IN COMPLIANCE WITH SECTION 15.04.00 OF THE LAND DEVELOPMENT AND LAND DEVELOPMENT CODE AND SECTION 15 (AS-BUILTS) OF THE DEVELOPMENT REVIEW MANUAL PRIOR TO SCHEDULING A FINAL INSPECTION OF THE WORK.
2. ST. JOHNS COUNTY DEVELOPMENT REVIEW INSPECTOR SHALL BE CONTACTED 24 HOURS PRIOR TO ALL NECESSARY SITE WORK INSPECTIONS AND 5 DAYS PRIOR TO FINAL INSPECTION.
3. THERE ARE TWO PAVEMENT REQUIREMENTS: LDC 6.04 07 0.3 (ROAD CONSTRUCTION) & LDC 6.04 08 (BORING)
4. ALL SUBDIVISION PLANS APPROVED AFTER 5/28/08 ARE SUBJECT TO THE TWO LIFT PAVING REQUIREMENTS AS DETAILED IN THE ABOVE LAND DEVELOPMENT CODE SECTIONS. IN SUMMARY, THE FINAL WEARING SURFACE LAYER IS NOT TO BE LAYED UNTIL THE BASE COURSE HAS BEEN INSPECTED AND THE IMPROVEMENTS HAVE BEEN INSPECTED AND ACCEPTED BY THE COUNTY. UNTIL THE FINAL SURFACE HAS BEEN APPLIED AND ACCEPTED, BONDING FOR THIS WORK IS TO REMAIN IN PLACE.
5. ALL DRAINAGE PIPES INSTALLED WITHIN ROADWAY RIGHT-OF-WAYS/EASEMENTS (PUBLIC OR PRIVATE) SHALL BE TELEVIEWED BY A COMPANY OR INDIVIDUAL CERTIFIED TO PERFORM SUCH WORK PER LDC 6.04 07 1.5G. THIS REQUIREMENT MAY ONLY BE WAIVED ON COMMERCIAL SITES IF THE ENGINEER OR RECORD CERTIFIES BY LETTER THAT THERE IS NO OTHER DOOR OR RECEIVING RAINING WATER INTO THE JOINS COUNTY RIGHT OF WAYS. IF THERE IS NO CONNECTION OR RELATIONSHIP BETWEEN THE PROJECT SITE AND A COUNTY OWNED OR MAINTAINED DITCH, POND OR STRUCTURE, IT SHALL BE REQUIRED. THIS TELEVIEWING OF THE DRAINAGE LINE SHALL BE DONE IN COLOR AND THE VIDEO TAPE SHOULD BE PROVIDED TO THE COUNTY PRIOR TO THE PROPER CONSTRUCTION OF ALL JOINTS AND PIPE ALIGNMENT. A VIDEO TAPE SHALL BE PROVIDED TO THE COUNTY UPON COMPLETION. THE TELEVIEWING OF THE DRAINAGE LINES SHALL BE PERFORMED AFTER THE PLACEMENT OF THE BASE MATERIAL AND PRIOR TO THE FINAL WEARING SURFACE OF THE ROADWAY. THE APPROVAL, BY THE COUNTY, OF THE TELEVIEWING SHALL BE REQUIRED PRIOR TO THE PLACEMENT OF THE FINAL WEARING SURFACE OF THE ROADWAY. TELEVIEWED RECORD SHALL BE REVIEWED AND CERTIFIED BY THE ENGINEER OF RECORD (EOR).
6. IT IS THE RESPONSIBILITY OF THE APPLICANT TO SCHEDULE A PRE-CONSTRUCTION / PRE-PERMIT ISSUANCE MEETING WITH SJC STAFF AFTER PLANS HAVE BEEN RELEASED FOR CONSTRUCTION BY THE COUNTY, AND PRIOR TO STARTING ANY SITE ACTIVITIES. THE PRE-CONSTRUCTION MEETING WILL BE HELD IN CONJUNCTION WITH THE COUNTY ENGINEER. THE MEETING SHOULD BE HELD WITHIN 10 BUSINESS DAYS OF THE PROJECT FALLS OUTSIDE OF SJCUD JURISDICTION. PLEASE CALL CARL COLE TO SCHEDULE MEETING.

1. ALL WORK PERFORMED WITHIN THE DEPARTMENT RIGHT-OF-WAY SHALL CONFORM TO THE MOST CURRENT EDITION OF THE FOLLOWING PUBLICATIONS:

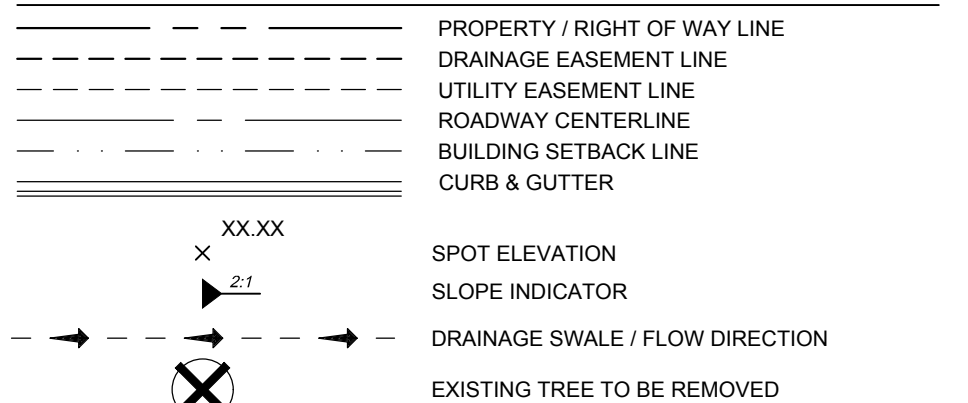
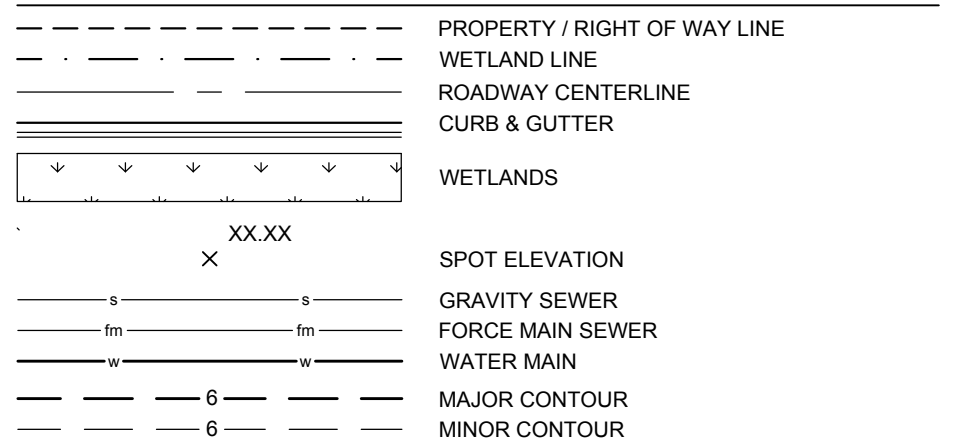
- A. STANDARD PLANS
 - B. STANDARD SPECIFICATIONS
 - C. FDOT DESIGN MANUAL
 - D. FDOT FLEXIBLE PAVEMENT DESIGN MANUAL
 - E. FDOT UTILITY ACCOMMODATION MANUAL
- (SHOULD A CONFLICT ARISE BETWEEN THE DETAILS SHOWN IN THE PLANS AND THE DEPARTMENT OF TRANSPORTATION STANDARDS THE ENGINEER/APPLICANT SHALL IMMEDIATELY CONFER WITH THE DEPARTMENT'S ENGINEER IN ORDER TO RESOLVE THE DISCREPANCY)
2. ALL TRAFFIC STRIPING AND MARKINGS ARE TO BE LEAD-FREE, NON-SOLVENT BASE THERMO PLASTIC.
 3. REMOVAL OF EXISTING STRIPING SHALL BE ACCOMPLISHED USING THE "HYDRO-BLAST" METHOD. IF THIS PROCESS DAMAGES / SCARS PAVEMENT, THEN THE PAVEMENT SHALL BE MILLED AND RESURFACED PER FDOT STANDARDS.
 4. ALL DIRECTIONAL ARROWS SHALL BE PLACED AS ONE SEGMENT.
 5. ALIGNMENT OF PROPOSED PAVEMENT MARKINGS SHALL MATCH EXISTING PAVEMENT MARKINGS AT PAVEMENT MARKING LIMITS OF CONSTRUCTION.
 6. ALL CURB AND GUTTER AND SIDEWALK, WILL BE REMOVED AND REPLACED JOINT TO JOINT.
 7. ALL BROKEN / CRACKED DRIVEWAYS MUST BE FULLY REMOVED AND REPLACED.
 8. ALL DISTURBED AREAS WITHIN THE DEPARTMENT'S RIGHT-OF-WAY WILL BE RESTORED TO ORIGINAL OR BETTER CONDITION BY GRADING AND SODDING THE AREA DISTURBED (BERMUDA IN URBAN, BAHIA IN RURAL).
 9. BURNING OF ANY MATERIAL OR DEBRIS IS PROHIBITED IN FDOT RIGHT OF WAY.
 10. ALL LANES MUST BE OPENED FOR TRAFFIC DURING AN EVACUATION NOTICE OF A HURRICANE OR OTHER CATASTROPHIC EVENT AND SHALL REMAIN OPEN FOR THE DURATION OF THE EVACUATION OR EVENT.

1. FIRE PROTECTION FOR THE PURPOSE OF THESE PLANS IS ANY UNDERGROUND WATER LINE NOT OWNED AND MAINTAINED BY A PUBLIC UTILITY AS WELL AS ANY PRIVATE FIRE SERVICE MAIN AND PIPE AND ITS APPURTENANCES OR Riser. (1) BETWEEN A SOURCE OF WATER AND THE BASE OF THE SYSTEM RISER FOR WATER-BASED FIRE PROTECTION SYSTEMS, (2) BETWEEN A SOURCE OF WATER AND INLETS TO FOAM-MAKING SYSTEMS, (3) BETWEEN A SOURCE OF WATER AND THE BASE OF ELONG OF PRIVATE HYDRANTS OR MONITOR NOZZLES, AND (4) USED AS FIRE PUMP SUCTION AND DISCHARGE PIPING, (5) BEGINNING AT THE INLET SIDE OF THE CHECK VALVE ON A GRAVITY OR PRESSURE TANK.
2. THIS SHALL ALSO APPLY TO COMBINED SERVICE MAINS USED TO CARRY WATER FOR FIRE SERVICE AND OTHER USES, I.E. DOMESTIC.
3. STANDARDS TO BE REFERENCED ARE TO BE THE MOST CURRENT AS ADOPTED BY THE FLORIDA FIRE PREVENTION CODE:
 - NFPA 24, INSTALLATION OF PRIVATE FIRE SERVICE MAINS & THEIR APPURTENANCES
 - NFPA 20, STANDARD FOR INSTALLATION OF STATIONARY PUMPS FOR FIRE PROTECTION
 - NFPA 22, STANDARD FOR WATER TANKS FOR FIRE PROTECTION
 - NFPA 16, STANDARD ON DELUGE FOAM-WATER SPRINKLER & FOAM-WATER SPRAY SYSTEMS
 - NFPA 1963 STANDARD FOR FIRE HOSE CONNECTIONS
4. ITEMS ON THE CONSTRUCTION PLANS SHALL INCLUDE BUT NOT LIMITED TO SCALE DRAWINGS AND DETAILS AND TO INCLUDE THE FOLLOWING ITEMS WHEN THEY ARE APPLICABLE TO THE SYSTEM BEING INSTALLED:
 - A. NAME OF OWNER AND OCCUPANT.
 - B. LOCATION, INCLUDING STREET ADDRESS.
 - C. POINT OF COMPASS.
 - D. A GRAPHIC REPRESENTATION OF THE SCALE USED ON ALL PLANS.
 - E. NAME AND ADDRESS OF CONTRACTOR.
 - F. SIZE AND LOCATION OF ALL WATER SUPPLIES.
 - G. SIZE AND LOCATION OF ALL PIPING, INDICATING, WHERE POSSIBLE, THE CLASS AND TYPE AND DEPTH OF EXISTING PIPE, THE CLASS AND TYPE OF NEW PIPE TO BE INSTALLED, AND THE DEPTH TO WHICH IT IS TO BE BURIED.
 - H. SIZE, TYPE, AND LOCATION OF VALVES. INDICATE IF FIRE IS LOCATED IN PIT OR IF OPERATION IS BY STOP INDICATOR OR KEY WRENCH THROUGH A CURB BOX.
 - I. LOCATION OF FIRE DEPARTMENT CONNECTIONS, IF PART OF PRIVATE FIRE SERVICE MAIN SYSTEM, INCLUDING DETAIL OF CONNECTIONS.
 - J. SPRINKLER AND STANDPIPE RISERS AND MONITOR NOZZLES TO BE SUPPLIED BY THE SYSTEM.
 - K. LOCATION OF FIRE DEPARTMENT CONNECTIONS, IF PART OF PRIVATE FIRE SERVICE MAIN SYSTEM,

ALL FIRE HYDRANTS INSTALLED IN ST. JOHNS COUNTY MUST HAVE A SINGLE 4.5 INCH HOSE OUTLET, AND TWO (2.5) INCH HOUSE OUTLETS, ALL WITH MALE NH STANDARD THREADS, IN ACCORDANCE WITH NFPA 1963

5. A COPY THESE APPROVED ENGINEERED PLANS SHALL ACCOMPANY A REQUIRED FIRE MARSHAL UNDERGROUND PERMIT SUBMITTED BY A CERTIFIED CONTRACTOR. THIS UNDERGROUND PERMIT WILL REQUIRE ADDITIONAL DETAILS AND SPECS AT THE TIME OF SUBMITTAL TO THE FIRE MARSHAL'S OFFICE.
6. CONTRACTORS INSTALLING THE UNDERGROUND PIPING IN ACCORDANCE WITH THE ABOVE REFERENCE STANDARDS FOR A FIRE PROTECTION SYSTEM USING WATER AS THE EXTINGUISHING AGENT BEGINNING AT THE POINT AT WHICH THE PIPING IS USED EXCLUSIVELY FOR FIRE PROTECTION AND ENDING NO MORE THAN 1 FOOT ABOVE THE FLOOR OF THE ROOM OR ENCLOSURE TO WHICH IT IS BEING INSTALLED. CONTRACTORS ARE PURSUANT TO CHAPTER 633, FLORIDA STATUTES, GENERAL CONTRACTORS ARE REMINDED THAT THEY ARE RESPONSIBLE FOR VERIFYING THAT THEIR SUBCONTRACTORS HOLD THE REQUIRED LICENSES. CONTRACTORS FOUND TO BE VIOLATING THIS REQUIREMENT MAY BE REPORTED TO THE DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION AND/OR THE STATE FIRE MARSHAL'S REGULATORY LICENSING SECTION.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING A PERMIT FROM THE FIRE MARSHAL'S OFFICE PRIOR TO THE START OF SITE CONSTRUCTION IN ACCORDANCE WITH THE ABOVE REFERENCED STANDARDS.
8. NOTE: MINIMUM WORKING PRESSURE OF THE UNDERGROUND PIPING SHALL BE 150 PSI. NFPA 24 REQUIRES SPECIFIC PVC PIPING TO MEET TABLE C-900 WITH MANUFACTURING LISTING FOR FIRE PROTECTION.

9. ALL FIRE LINES MUST BE INSPECTED BY THE FIRE MARSHAL'S OFFICE PRIOR TO BACKFILL. THE CODE REQUIRES ALL JOINTS EXPOSED FOR INSPECTION WITH FILL IN-BETWEEN JOINTS. ALL PIPING AND ATTACHED APPURTENANCES SUBJECTED TO SYSTEM WORKING PRESSURE SHALL BE HYDROSTATICALLY TESTED AT 200 PSI OR 50 PSI IN EXCESS OF THE SYSTEM WORKING PRESSURE, WHICHEVER IS GREATER, AND SHALL MAINTAIN THAT PRESSURE WITHOUT LOSS FOR 2 HOURS.



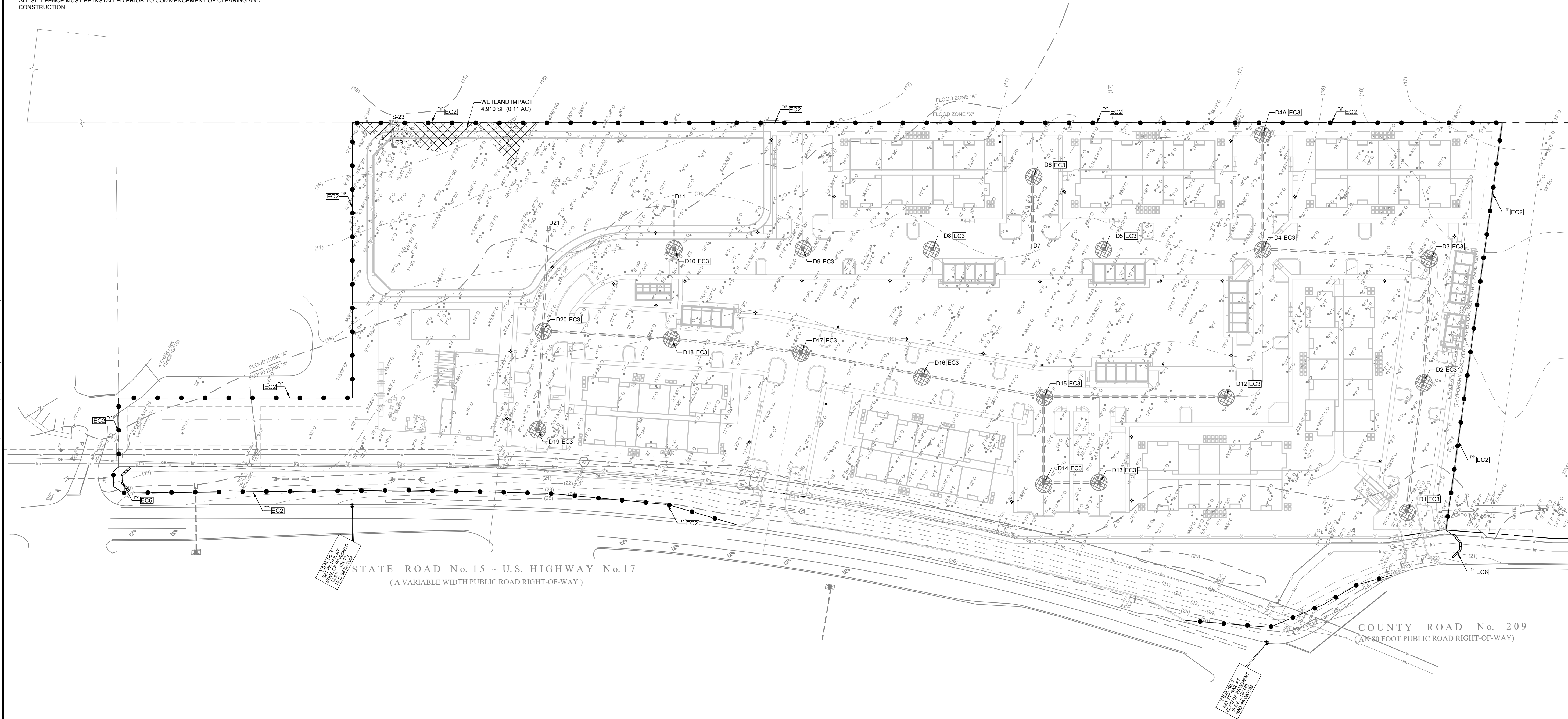
ABBREVIATIONS	
ABBREVIATION	DESCRIPTION
A	ARC
AC	ACRE
BOC	BACK OF CURB
BFP	BACK FLOW PREVENTER
BLDG	BUILDING
BM	BENCHMARK
BOTT	BOTTOM
CI	CURB INLET
CO	CLEANOUT
CB	CHORD BEARING
CH	CHORD
CMP	CORRUGATED METAL PIPE
CONC	CONCRETE
CONSTR	CONSTRUCT
CONT	CONTINUATION
COORD	COORDINATE
DBL CI	DOUBLE CURB INLET
DE	DRAINAGE EASEMENT
DH	DESIGN HIGH WATER
DIP	DUCTILE IRON PIPE
Δ	DELTA
E	EAST
EOP	EDGE OF PAVEMENT
EL	ELEVATION
ERP	ELLIPTICAL REINFORCED CONCRETE PIPE
ESMT	EASEMENT
EXIST	EXISTING
FF	FINISH FLOOR
FH	FIRE HYDRANT
FL	FLOW LINE
FM	FORCE MAIN
FP	FIRE PROTECTION MAIN
FV	FLUSHING VALVE
GV	GATE VALVE
HDPE	HIGH DENSITY POLYETHYLENE
HDWL	HEADWALL
HWL	HIGH WATER LEVEL
INV	INVERT
L	LENGTH
L F	LINEAR FEET
MES	MITERED END SECTION
MAX	MAXIMUM
H	MANHOLE
MIN	MINIMUM
N	NORTH
NIC	NOT IN CONTRACT
NG	NATURAL GRADE
NTS	NOT TO SCALE
NWL	NORMAL WATER LEVEL
PC	POINT OF CURVATURE
PCB	POINT OF COMPOUND CURVE
PI	POINT OF INTERSECTION
PBB	POINT OF BEGINNING
PRC	POINT OF REVERSE CURVE
PT	POINT OF TANGENCY
PVC	POINT OF VERTICAL CURVATURE
PVI	POINT OF VERTICAL INFLECTION
PVT	POINT OF VERTICAL TANGENCY
PVMT	PAVEMENT
PvC	POLYVINYL CHLORIDE PIPE
R	RADIUS
RP	RADIUS POINT
RW	RIGHT OF WAY
RCW	REINFORCED CONCRETE PIPE
REDUCER	REDUCER
RPZBFP	REDUCED PRESSURE BACKFLOW PREVENTER
S	SOUTH
SAN	SANITARY
SEP	SEPARATION
SL	SLOPE
SP	SAMPLE POINT
SHT	SHEET
STA	STATION
SWMF	STORM WATER MANAGEMENT FACILITY
TOB	TOP OF BANK
SWR	SEWER
TOC	TOP OF CURB
TRI CI	TRIPLE CURB INLET
TYP	TYPICAL
UDAE	UNOBSTRUCTED DRAINAGE & ACCESS EASEMENT
UDE	UNOBSTRUCTED DRAINAGE EASEMENT
UE	UTILITY EASEMENT
VC	VERTICAL CURVE
W	WEST
WM	WATER MAIN

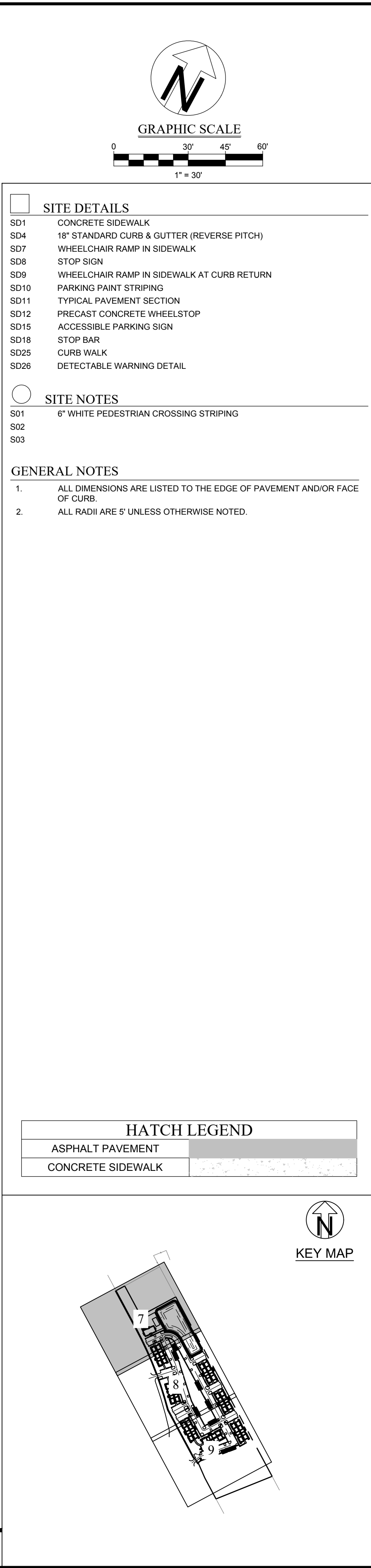
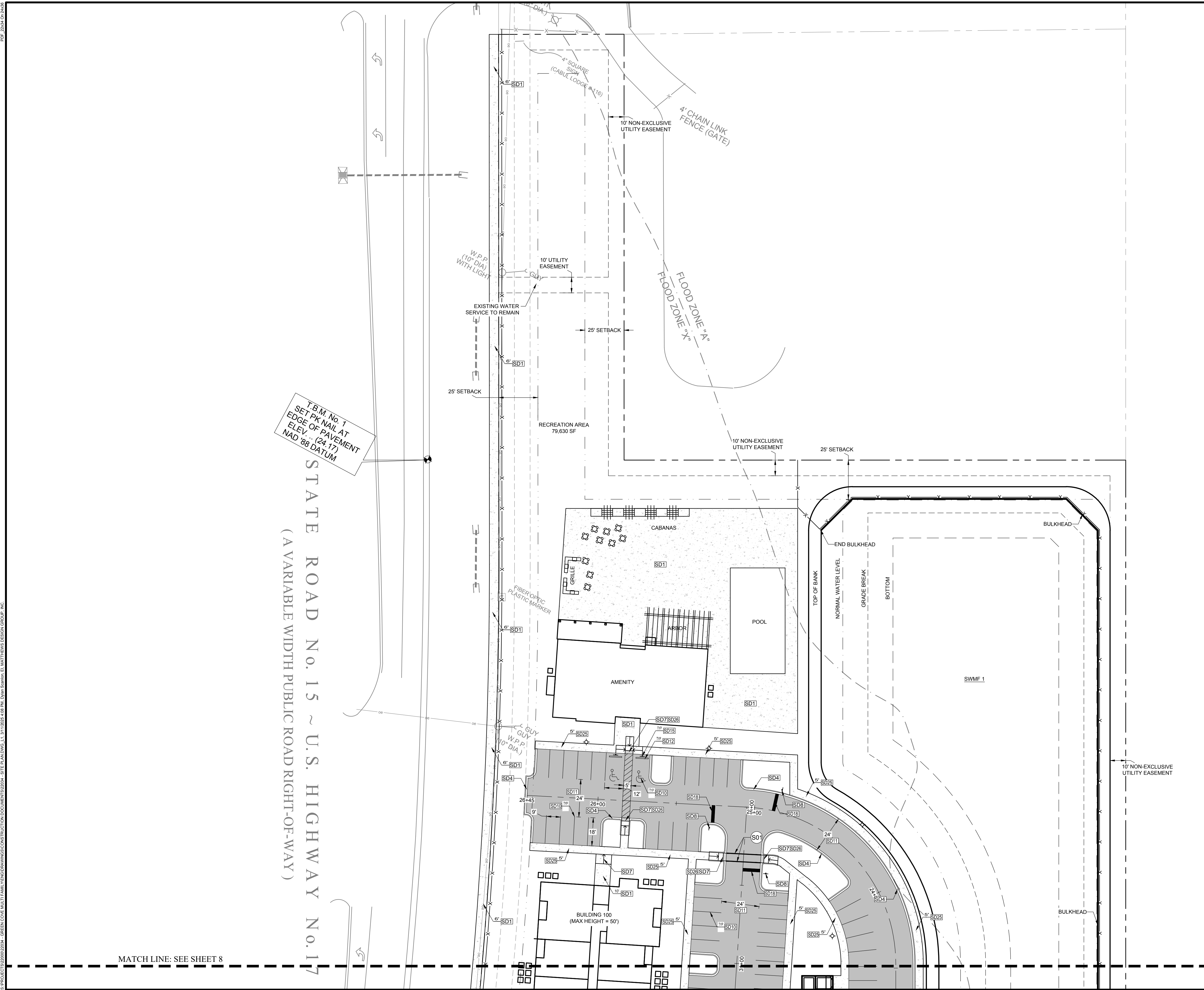
M:\CAD Files\Green Cove Springs\9605191\Standard Utility Detail\11-01-2017\SPECIE D.dwg, 11/17/2017 11:57:22 AM

OUTLINE SPECIFICATIONS FOR CONSTRUCTION OF SEWAGE COLLECTION SYSTEM										GENERAL NOTES									
<p>01. INTENTION. It is the declared and acknowledged intention to secure a new sewerage system, complete, in accordance with the plans, specifications, and contract documents. All new work shall be in accordance with the City of Green Cove Springs Specifications Manual and C.G.C.S.'s Approved Materials Manual and C.G.C.S. Public Works Department Details and Specifications and any other Government Regulatory Agency. All work shall conform to the above whether or not specifically called out or noted on the plans.</p> <p>02. GENERAL. All materials shall be of those listed in the C.G.C.S. Approved Materials Manual. The installation shall be warranted by the Contractor as to materials, workmanship and accuracy of the As-built drawings for a period of two years from the date of completion of the work or beneficial use of the facilities. Workmanship shall be of good quality; i.e., sewers shall be laid true to line and grade, fittings shall be properly installed and restrained, trenches shall be properly excavated and backfilled, manholes shall be installed at locations and to elevations shown on the plans.</p> <p>02.1. CONTRACTOR LICENSE AND APPROVAL. Utility reserves the right to approve or deny approval of contractor prior to construction of any on-site or off-site utility facilities. Contractor must hold a State Of Florida Under Ground Utility Contractors license, that named contracting company being the one doing the work on project, and demonstrate acceptable experience in the field of utility construction.</p> <p>03. SURVEYS. The Utility Contractor shall provide all surveys necessary for the layout and construction of the work of his contract.</p> <p>04. EARTHWORK. Earthwork shall include all excavation, fill and backfill (hand/machine), compaction and rough grading of materials encountered. No unsuitable materials like, muck, or peat, removed from pipe trenches are to be used for backfill. All fill or backfill shall be either sand or sandy clay, free of roots, trash or other debris. All backfill alongside of and to a height twenty-four inches above all pipe shall be free of clay or organic material. The first of which shall be to the spring line of the pipe by either hand or machine operation carefully to 98%. All other backfill shall be compacted by either hand or machine operation carefully to 95% (outside of paving), 98% (under paving) of its optimum moisture content as determined by ASTM D698, latest. Copies of compaction density test reports from a licensed testing agency shall be made available to C.G.C.S. if requested.</p> <p>05. MANHOLES. Manhole bases, sections and cones shall conform to the requirements of ASTM C478, Specifications for Precast Reinforced Concrete Manhole Sections. Cement shall meet the requirements of ASTM C150, Specifications for Portland Cement, Type II. Concrete shall meet the minimum requirements for Class "A" Concrete Work. Minimum wall thickness shall be 1/12 the inside diameter in inches plus one (1) inch. Bases for manholes shall be cast integrally with the manhole bottom. Rubber gasket, or RAB, preformed plastic joint and sharp castings; they shall be exactly parallel with a 2 degree slope and nominal 1/16 inch clearance with the tongue equipped with a proper recess for the installation of an O-ring rubber gasket, conforming to ASTM C443, joints for circular concrete pipe. The gasket shall be a PVC material and shall be installed with a maximum of 45 degrees (see Standard Sewer System Cleanout detail) utilizing the proper fittings for the type of pipe specified.</p> <p>05.1. CAST IRON MANHOLE FRAMES AND COVERS. Cast iron manhole frames and covers shall be as detailed on drawings. Castings shall meet the requirements of ASTM A48, Specifications for Gray Iron Castings, Class No. 30, or Grade 65-45-12, Ductile Iron meeting the requirements of ASTM A536, Standard Specification for Ductile Iron Castings. In either case, manhole frame and cover shall be</p>										<p>designed to withstand on HS20-44 loading defined in the AASHTO Specifications. Frames and covers shall be machined or ground at touching surfaces so as to seat firmly and prevent rocking.</p> <p>05.2. FLEXIBLE MANHOLE CONNECTOR. All connections between sewer pipe and pre-cast concrete manholes shall be accomplished by a Flexible Connector, "Kor-N-Seal", as manufactured by National Pollution Control Systems, Inc. or approved equal.</p> <p>05.3. FLOW CHANNELS. Flow channels in manhole base shall be formed of D.O.T. Class I, Type II cement grout with brick or rubble and trowel to a smooth surface finish. Grout surface shall be 1" min. thickness over brick or rubble. While the manholes are under construction, cut off pipes at inside face of the manhole and construct the invert to the shape and sizes of pipe indicated. All inverts shall provide a constant gradient from influent pipe to effluent pipe through manhole. Changes in direction of the sewer and entering branch or branches shall be laid out in smooth curves of the longest possible radius which is tangent to the center lines of adjoining pipelines.</p> <p>05.4. DROP INLETS. Where shown on the drawings, drop inlets to the manholes shall be constructed as shown on the drawings and specified herein.</p> <p>06. POLYVINYL CHLORIDE PIPE. Polyvinyl Chloride Sewer Pipe shall conform to the requirements of ASTM D-3034, SDR 26. The PVC compound conforming to ASTM D-1784. Pipe shall be clearly marked in 5 Ft. intervals or less, indicating manufacturers name, nominal size, cell classification and legend. Joints shall be push-on rubber gasketed, conforming to ASTM D-3034. All sanitary service laterals shall be installed in accordance with recommended practice ASTM D-2321. Maximum depth of gravity sewer without prior approval shall be 15 feet. Sewers over 15' in depth shall be DR-18 P.V.C. pipe and shall have C.G.C.S. approval prior to design or installation of said sewer.</p> <p>07. PIPE BETWEEN MANHOLES. All piping installed between manholes shall be the same material and class. No dissimilar pipe material will be allowed anywhere within a single run of pipe.</p> <p>08. SANITARY SERVICE LATERALS. Sanitary service laterals shall be Polyvinyl Chloride Pipe conforming to the requirements of ASTM D-3034, SDR 26 where cover over top of pipe is 36 inches or greater. Where cover over top of pipe is less than 36 inches, specific construction conditions shall be directed by the City of Green Cove Springs. All sanitary service laterals shall be a minimum of 4'-0" deep at the right-of-way line to top of pipe. Any sanitary service lateral which must be more than 5'-0" deep shall not be installed prior to obtaining permission from the C.G.C.S. field inspector to install the lateral. All sanitary service laterals shall be 6-inch diameter from the main to the right-of-way line with a minimum slope of 0.60% (0.6 feet per hundred feet). In single family residential developments, services shall reduce to 4" in size and terminated at the property line with a 45 degree elbow. A PVC water service lateral shall be installed with a minimum of 45 degrees (see Standard Sewer System Cleanout detail) utilizing the proper fittings for the type of pipe specified.</p> <p>09. FORCE MAINS. Force mains shall be C900 DR-18 PVC and conform to the requirements of ASTM D-1784, D-2241, D-3139 and F-477. Pipe shall be color coded and marked "FORCE MAIN" on at least two sides and every 12' along the barrel of the pipe. Ductile Iron pipe for force main service shall be polylined. Ductile Iron pipe is not to be used without prior approval of the Clay County Utility Authority. Fittings shall be C110 gray iron and shall be polylined. Force mains less than 3" shall be SCH-80 PVC. All force mains shall be installed with tracer wire per C.G.C.S. standard location wire details.</p> <p>09.1. LIFT STATION VALVES. Plug valves shall be Dezurik, Clow or M&H, with full port opening. Check valves shall be M&H, Mueller or American Darling.</p> <p>09.2. FORCE MAIN VALVE. Gate valve, resilient seated, same as specified in Water Distribution System Specifications Section 12 below. Except valve bodies shall be gray iron. Valve box shall have the word "SEWER" cast into the cover.</p> <p>09.3. FORCE MAIN JOINT RESTRAINT. All fittings shall be properly and adequately restrained against lateral movement at all force main tees, crosses, valves and bends. Restrainors shall be Uni-Flange Series 1300, 1350 or approved equal installed per manufacturer's recommendations and C.G.C.S. standard details and specifications.</p>									
<p>01. INTENTION. It is the declared and acknowledged intention to secure a new water distribution system, complete, in accordance with the plans and specifications, and contract documents. All new work shall be in accordance with C.G.C.S. Specifications and Details and Approved Materials Manual and C.G.C.S. Public Works Department Details and Specifications and any other Government Regulatory Agency. All work shall conform to the above whether or not specifically called out or noted on the plans.</p> <p>02.1. CONTRACTOR LICENSE AND APPROVAL. Utility reserves the right to approve or deny approval of contractor prior to construction of any on-site or off-site utility facilities. Contractor must hold a State Of Florida Under Ground Utility Contractors license, that named contracting company being the one doing the work on project, and demonstrate acceptable experience in the field of utility construction.</p> <p>02. GENERAL. All materials shall be of those listed in the C.G.C.S. Approved Materials Manual. All materials shall be warranted by the Contractor as to materials, workmanship and accuracy of As-built drawings for a period of two years from the date of completion of the work or beneficial use of the facilities. Workmanship shall be of good quality; i.e., mains shall be laid in a uniform alignment, fittings shall be properly restrained, trenches shall be properly excavated and backfilled, manholes shall be installed at locations and to elevations shown on the plans. All water mains shall be installed with tracer wire per C.G.C.S. standard location wire details.</p> <p>03. SURVEYS. The Utility Contractor shall provide all surveys necessary for the layout and construction of the work of his contract.</p> <p>04. EARTHWORK. Earthwork shall include all excavation, fill and backfill (hand/machine), compaction and rough grading of materials encountered. No unsuitable materials like, muck, or peat, removed from pipe trenches are to be used for backfill. All fill or backfill shall be either sand or sandy clay, free of roots, trash or other debris. All backfill alongside of and to a height twenty-four inches above all pipe shall be free of clay or organic material, compacted by either hand or machine operation carefully to 98%. All other backfill shall be compacted by either hand or machine operation carefully to 95% (outside of paving), 98% (under paving) of its optimum moisture content as determined by ASTM D698, latest. Copies of compaction density test reports from a licensed testing agency shall be made available to C.G.C.S. if requested.</p> <p>05. JOINT RESTRAINT. All fittings shall be properly and adequately restrained against lateral movement at all water main tees, crosses, valves bends and hydrants. Restrainers shall be Uni-Flange Series 1300, 1350, or approved equal installed per manufacturer's recommendations and C.G.C.S. Details and Specifications.</p> <p>06. DUCTILE IRON PIPE. Ductile iron pipe shall conform to ANSI Specification A21.50 (AWWA C150) latest, "Thickness Design of Ductile Iron Pipe", Table 50.5, laying condition Type 2, internal operating pressure of 250 psi, for an 8'-foot depth of cover, Class 51 minimum and shall be ANSI A21.51 (AWWA C151), latest centrifugally cast pipe. Laying lengths shall each length clearly marked with pressure rating, thickness be 20 feet or less, class, height of pipe without lining, length, and manufacturer. Ductile iron pipe for water service shall be furnished with cement lining per AWWA C1110, C115 and C151. The pipe shall have design values of 60,000 P.S.I. minimum tensile strength, and 42,000 P.S.I. minimum yield strength. Ductile iron pipe for water service lines shall be used in any easement, right-of-way, between lots, and any instance where a building foundation or other permanent appearance is within 10' of the water main or a service line larger than 3".</p> <p>07. DUCTILE IRON FITTINGS shall be C153 cement lined and suitable for the type and class of pipe to which connected. Gaskets shall be suitable for potable, domestic water service. Minimum working pressure shall be 150 P.S.I.</p> <p>08. POLYVINYL CHLORIDE PIPE. Polyvinyl chloride pipe for water mains 4 inch in diameter and larger, shall be P.V.C. C900, DR-18, conforming to ASTM D-1784, D-2241, D-3139 and F-477, latest, and shall bear the seal of the National Sanitation Foundation. Pipe shall be color coded and marked on at least 2 sides with the word "WATER" and at every 12' along the barrel of the pipe. Couplings shall be rubber gasketed, push-on type conforming to ASTM D-2122. DR-18 shall be used for fire mains.</p>										<p>09.4. FORCE MAIN PIPE FLUSHING. All force main piping shall be flushed clean with water utilizing full pipe diameter flushing for all piping up to and including 8" diameter.</p> <p>10. INSTALLATION. All sewer lines, manholes, and appurtenances shall be constructed to the dimensions and elevations indicated on the drawings. Trenches shall be excavated to a width approximately twelve inches greater than the outside diameter of the pipe. Machine excavation shall be to a depth one-fourth pipe diameter above proposed pipe grade; the remaining depth shall be hand excavated and shaped to give full support to the lower one-fourth of each pipe. Each smooth surface finish shall be 1" min. thickness over brick or rubble and trowel to a smooth surface finish. Grout surface shall be 1" min. thickness over brick or rubble. While the manholes are under construction, cut off pipes at inside face of the manhole and construct the invert to the shape and sizes of pipe indicated. All inverts shall provide a constant gradient from influent pipe to effluent pipe through manhole. Changes in direction of the sewer and entering branch or branches shall be laid out in smooth curves of the longest possible radius which is tangent to the center lines of adjoining pipelines.</p> <p>11. INSPECTIONS. Each section of the completed sewer system shall be inspected for proper alignment. Inspection shall consist of "tamping" from manhole to manhole. Any section of the sewer system which does not display true, concentric alignment shall be reinstated at no additional expense to the Owner. A written log of inspection shall be kept indicating location of test, potential problems in sewer, dips and depth of water, service locations, and other irregularities in the pipe lines. A video tape in VCR format shall be made of the television inspection and submitted to the Engineer and the City of GCS. Copies of compaction density test reports from a licensed testing agency shall be made available to City of GCS if requested.</p> <p>11.1. Television inspection will be required on all new gravity sewers constructed. This service shall be provided by the Contractor as a part of this Contract. The newly constructed sewers shall be televised the presence of the Inspector of the City of GCS. A full report as to the condition of pipe type, depth, location of services, length, type, joint and distance between manholes, etc. shall be furnished to the City of GCS inspector prior to the final acceptance of the system. Any pipe found to be cracked, leaking or otherwise defective shall be removed and replaced with new pipe at no additional costs to the Owner. Deflection testing with 7.5% mandrel also required. Any section not passing the mandrel test shall be corrected. Sewer mains shall be televised after curb and lime rock are in place but prior to paving. Curb and linerrock shall be installed, finish graded prior to televising the gravity sewer. Limerock priming and paving operations shall not take place until the City of GCS inspector has reviewed the television tape and approves the gravity sewer system. This will be strictly enforced. All gravity sewers must be flushed no sooner than 4 hours prior to any television inspection. Force main lines shall be pressure tested and approved prior to installation, but not prior to subgrade mixing operation and limerock installation, finish graded and compacted. Sewer services shall be viewed by a camera capable of viewing into service lateral connections. Adequate water must be placed within the upstream manhole to flow through the downstream manhole before inspecting with the camera. All work must be accomplished in the presence of the City of GCS inspector and a 48 hour notice must be provided. Contractor shall provide City of GCS with a 48 hr. notice of intent to televise and inspect sewer main. City of GCS inspector shall report to job site at the time specified by contractor at the time of the call-in. City of GCS inspectors will walk the job site no more than one hour for the televising to begin before leaving the job site. Contractor shall reschedule televising giving City of GCS 48 hrs. notice if the above occurs.</p> <p>11.2. TEST, INFILTRATION: After completion, the sewers or sections thereof, shall be tested and gauged for infiltration. To check the amount of infiltration, the Contractor, at no added compensation other than the contract price for the sewer, shall furnish, install and maintain a V-notch sharp crested weir in a wood frame on the main sewers as directed by the Engineer. Maximum allowable infiltration shall be 50 gallons per mile, per inch of dia. of sewer per 24 hour day at any time.</p> <p>11.3. TEST, EXFILTRATION: In areas where ground water is not encountered in sewer construction, or it is desired to run exfiltration tests, the Contractor shall furnish and install all necessary materials, equipments, shall supply water, etc., and shall run exfiltration tests to determine acceptance of the sewer. The maximum allowable exfiltration shall be 50 gallons per mile per inch of diameter of sewer per 24 hour day at any time based on two foot minimum internal head.</p>									
<p>09. STEEL CASING PIPE. Steel casing pipe shall be of size indicated on the Drawings and shall conform to ASTM A139, with a minimum yield strength of 35,000 p.s.i.</p> <p>10. POLYETHYLENE PIPE shall be SDR 9, AWWA C901, ASTM D2737, PE 3408, colored blue, NSF Seal, with Type 316 stainless steel inserts. Fittings shall be suitable for type of installation required. All piping smaller than 4" shall be Polyethylene.</p> <p>11. GATE VALVES AND BOXES. Gate valves shall be non-rising stem type and shall be suitable for a 200 p.s.i. non-shock working pressure. Gate valves shall be mechanical joint, flanged or screwed. Gate valves shall have a 2" operating nut and open left. Gate valves shall have joints suitable for the type of main on which installed. Valves 2" & 3" shall be iron body, bronze fitted (distribution mains only). Valves 4" and larger shall be iron body, bronze fitted with resilient seat. Valves shall be of domestic (American) manufacture and shall be A.F.C., M&H, Mueller or approved equal. Valves 16" and larger shall be AWWA C-509, M&H Valve Co. Valve boxes with screw extensions shall be provided for all gate valves. Boxes shall be of cast iron construction, 7/32" minimum wall thickness and shall be nontacky tar enamel coated. The word "WATER" shall be cast in the cover. Other ball valves 2" and smaller shall be Ford Ball Valve or Mueller with F.I.P.T.</p> <p>12. WATER METER BOXES. Meter boxes for flushing hydrants and 3/4" meters shall be DWV Plastic shall be DWV1730C-12-3T, DWV1730C-12-3T, 17 meters shall be DWV Plastics, Inc., model DW1730C-12-3T. Meter boxes for 1-1/2" and 2" meters shall be DWV Plastics, Inc., model DW1730C-12-3T. Developer shall be responsible for installation of meter boxes on all water services as part of the water main installation. Curb stops shall be adjusted to proper elevation and shall be accessible for the installation of the water meter. The contractor shall be required to open all boxes for the C.G.C.S. inspector at the final inspection. A treated 6'-8" fence post marker shall be pointed blue for identification.</p> <p>13. CURB STOPS. Curb stops shall be cast bronze, inverted key stop, roadway, with check, lock wing type, for locking in the closed position. Curb stops shall be Ford Ball Valve or Mueller.</p> <p>14. CORP STOPS. Corp stops shall be cast bronze, inverted key stop, roadway, with check, lock wing type, for locking in the closed position. Corp stops shall be Ford Ball Valve or Mueller.</p> <p>15. FIRE HYDRANTS. Fire hydrants shall be traffic type, 150 pound working pressure, AWWA Standard C502, latest revisions, with two 2 1/2" nozzles, one 4 1/2" nozzle and 5 1/4" main valve. Fire hydrant shall be by compression type with breakable coupling and mechanical joint. Fire hydrant shall be mechanical joint. American Flow Control, AFB B-84-B, painted red w/white bonnets and with 1 1/2" penta nuts, opening left.</p> <p>16. INSTALLATION. The minimum cover over top of potable water main shall be 36" minimum. All water lines and appurtenances shall be thoroughly cleaned of all foreign matter before being lowered into the trench and shall be kept clean during laying operations by means of plugs and other approved methods. All pipe shall be checked for defects before being lowered into the trench. Defective pipe shall not be used. Pipe found to be defective, after installation, shall be removed and replaced with sound pipe at no additional expense to the Owner. The full length of each section of pipe shall rest solidly upon the pipe bed, with recesses excavated to accommodate the bells and joints. All pipe that has the grade or joint disturbed after laying shall be taken up and reinstated. The pipe shall not be laid in water, or, when trench or weather conditions are unsuitable for the work. All joints shall be cleaned of all foreign matter before making the joint. Fittings at bends in the pipe shall be properly restrained with joint restrainers adequately sized to prevent movement and dislocating or blowing off when the line is under pressure. Service laterals shall terminate at the point noted in the details.</p> <p>17. TESTS. After the pipe is laid, the joints completed, and the trench backfilled, the newly laid pipe and appurtenances shall be subjected to a Hydrostatic and Leakage test of 150 pounds per square inch for a</p>										<p>AS-BUILT DRAWINGS AND ASSOCIATED COSTS. All cost records pertaining to the cost of water, reclaim and sewer facilities donated to the utility shall be provided to the Utility by applicant. Prior to acceptance of any extension to the Utility's system that is completed by a licensed underground utility contractor, the Utility will require that the applicant's contractor provide the Utility, to retain for its permanent records, all field as-built data. During the daily progress of the work, the contractor's job superintendent shall record on his field set of drawings all work installed. All manholes, gravity sewers, force mains, laterals, valves, fittings, fire hydrants, etc. shall be located in the direction of flow and be referenced perpendicular to the right-of-way lines and/or property lines (preferably both) or existing permanent utility structures are acceptable (i.e. manholes, catch basins, fire hydrants, head/end walls, etc.). No power/utility poles may be used for reference. Elevations of manhole inverts and center of cover shall be shown to the nearest hundredth of a foot. Size, type, class and slope of sewer main shall be shown (i.e. 8" PVC, SDR-35). The top elevation of each manhole may be determined by measuring from a surveyed pipe invert to the final adjusted manhole top. Size, type and class of water mains, valves, fittings, fire hydrants, etc. shall be shown (i.e., 8" D.I.P., 6" gate valve). All locations where the top of the water main is less than 36" deep or more than 50" deep shall be noted on the as-builts. Water as-builts, sewer as-builts and reclaim water as-builts shall be on separate sheets. AS-BUILTS SHALL BE IN NAD 1983 FL EASE-FOOT---STATE PLANE COORDINATES AND REFERENCE THE BM USED FOR THE PROJECT.</p> <p>Each page of the as-built drawings shall bear the name, date and original signature of the general contractor responsible for the Work and the name, date, original signature and seal of the registered land surveyor or registered professional engineer who provided the horizontal and vertical dimensions and elevations on the as-built drawing. The signatures shall certify that the as-built drawings do, in fact, reflect the true as-built conditions as located under the direct supervision of the registered surveyor and/or professional engineer.</p> <p>The as-builts shall be at the contractor's expense. A copy of the AutoCAD® ASBUILT DATA SHALL BE FURNISHED ON COMPACT DISK (CD) PLUS (2) SIGNED FULL SIZE PRINTED SET PLUS (1) MYLAR SET by either the design engineer or the applicant's contractor.</p> <p>2. CONSTRUCTION WARRANTY AND WARRANTY SECURITY PERIOD. Developer shall warranty Utility against defects in the design and workmanship for the portion of the utility system to be owned by the Utility. Developer shall secure from its Contractor a written and fully assignable warranty that the system installed will be and remain free from all defects, latent or otherwise with respect to workmanship, materials, installation, and accuracy of his as-built drawings in accordance with the Utility approved plans and specifications for a period of two years from the date of the system acceptance by the Utility and immediately assign the same and the right to enforce the same to Utility on or before the date of the Utility's acceptance of the system for ownership and maintenance.</p> <p>3. CLEAN-UP. All surplus materials of construction shall be removed from the site and disposed of by the Contractor as part of his contract with the owner.</p> <p>4. RESTORATION. New Sanitary Sewer and Water Main Construction in earthen areas shall be seeded and mulched in accordance with Section 670 of Standard Specifications of the Florida Dept. of Transportation (latest edition). In locations where existing grassed (sodded) areas are disturbed, sod shall be replaced to preconstruction condition and to limits of construction or where directed by the engineer.</p> <p>5. PERMITS. The Contractor shall be responsible for obtaining all permits required for performing work under this contract, except that the F.D.E.P. permits, and wetland permits, if required, will be secured by the owner or developer.</p> <p>6. PIPE BEDDING. In the event unsuitable or unstable bedding material is encountered at or below the limits of the excavation required for installation, such material shall be removed and replaced with suitable compacted backfill material specified by the design engineer and approved by the C.G.C.S. so as to provide a stable trench bedding surface suitable for proper pipe installation.</p> <p>6-A. Pipe Bedding (Rock Bedding Material) Rock material used for pipe bedding shall be #57 stone or crushed concrete (crush-crete) in a #57 size. Rock bedding material shall be completely wrapped in a heavy filter fabric material, overlapped a minimum of one foot, rock bedding shall be installed to the correct grade and compacted to a density which will prevent any settlement, either mechanical tamping or vibration, of the rock used in compacting the rock used in the backhoe bucket. The compaction shall be approved by C.G.C.S. inspector. The contractor shall be required to have submittal approved by design engineer and C.G.C.S. prior to use of such rock bedding material.</p> <p>7. DEWATERING. The contractor shall at all time during construction provide ample means and equipment with which to promptly remove and dispose of all water encountered in the trench and structure excavations and shall keep said excavations acceptably dry until the piping and / or structures to be built therein are completed. All water pumped or drained from the work area shall be disposed of in a manner as to not damage sewer, water, electrical or any other piping, structures or property. No pipe shall be laid in water above and no water shall be allowed to rise above the bottom of any pipe while it is being jointed, except as may be approved in writing by the C.G.C.S.</p> <p>8. HYDROSTATIC TESTING. After all pressure pipes (water mains, services, and force mains) are laid, the joints completed, and the trench backfilled, the newly laid pipe and appurtenances shall be subjected to a hydrostatic test of 150 P.S.I. for a period of at least two hours. The engineer and the C.G.C.S. Public Works Department shall be notified 48 hours before a test is to be performed. Test shall be as set forth in AWWA Standard C600. Any leaks detected shall be corrected and the section of pipeline retested. The two hour test period shall begin when all joints have been determined to be water tight. Leakage shall be limited to that allowance set forth in Section 4 of AWWA Standard C600-87. Hydrostatic and leakage test and blow-down (scrapping off spags) must occur before sampling for bacteriological test. The maximum allowable pressure loss is 5 P.S.I. regardless of the length of pipe.</p> <p>9. REPORTS. Reports of hydrostatic and leakage tests and sterilization of the newly completed systems shall be submitted to the C.G.C.S. prior to requesting acceptance of the system.</p> <p>10. DENSITY TESTING. In-place density tests are required at intervals not to exceed 150' along pipelines for every other lift. A minimum of one test between manholes is required for every other lift regardless of the distance between sanitary sewer manholes.</p> <p>11. CONCRETE. All Portland Cement concrete shall be of Type II Portland Cement, 2,500 P.S.I. minimum, ready minimum concrete shall be placed before the initial set has taken place. State or retempered concrete shall not be used.</p> <p>12. GATE VALVES AND BOXES. Gate valves shall have a 2" operating nut and open left. Gate valves shall have joints suitable for the type main on which installed. Valves 2" and 3" shall be iron body, bronze fitted. Valves 4" and larger shall be iron body, bronze fitted with resilient seat. The word "WATER" on water boxes and "SEWER" on force main boxes shall be cast in the covers.</p> <p>13. SEPARATION OF WATER AND SEWER MAINS. Horizontal and vertical separation between potable water system mains and or appurtenances and sanitary or storm sewers, wastewater or storm water force mains, and reclaimed water mains shall be in accordance with Rule 92-855.314 F.A.C.</p> <p>(a) New or relocated, underground water mains shall be laid to provide a horizontal distance of at least three feet between the outside of the water main and the outside of any existing or proposed storm sewer, storm water force main, reclaimed water main regulated under Part III of Chapter 62-610, F.A.C. or proposed vacuum-type sanitary sewer.</p> <p>(b) New or relocated, underground water mains shall be laid to provide a horizontal distance of at least six feet, and preferably ten 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 not regulated under Part III of Chapter 62-610, F.A.C. The minimum horizontal separation distance between water mains and gravity-type sanitary sewers shall be reduced to three feet where the bottom of the water main is laid at least six inches above the top of the sewer.</p> <p>(c) 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 inches, and preferably 12 inches, above or at least 12 inches below the outside of the other pipeline. However, it is preferable to lay the water main above the other pipeline.</p> <p>(d) New or relocated, underground water mains crossing any existing or proposed pressure-type sanitary sewer, wastewater or storm water force main, or pipeline conveying reclaimed water shall be laid so the outside of the water main is at least 12 inches above or below the outside of the other pipeline. However, it is preferable to lay the water main above the other pipeline.</p> <p>(e) At the utility crossings described in paragraphs (c) and (d) 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 mains and storm sewer joints shall be located at joints in vacuum-type sanitary sewers, storm sewers, storm water force mains, or pipelines conveying reclaimed water regulated under Part III of Chapter 62-610, F.A.C., and at least six feet from all joints in gravity- or pressure-type sanitary sewers, wastewater force mains, or pipelines conveying reclaimed water not regulated under Part III of Chapter 62-610, F.A.C.</p>									
<p>12. NEW CONNECTION TO EXISTING MAIN. New connection to existing main in service shall be accomplished by the "wet tap" method utilizing full circle stainless steel tapping sleeve and mechanical joint tapping valve. Tapping sleeve shall be rated at 200 P.S.I., non-shock working pressure conforming to AWWA Standard C110, latest revision. Stainless steel tapping sleeves shall be used for all tapping. Pipe used for tapping shall be mechanical joint. The tapping mechanical joint one end and standard flanged joint on other end. Valve shall conform to Section 12 of these specifications.</p> <p>15. JOBSITE SAFETY. While on the job site, the contractor shall at all times observe all Federal, State and local safety rules, regulations and laws. This includes, but not limited to, confined spaces and excavation protection systems as per O.S.H.A. standards.</p>										<p>CLOSE OUT / COMPLETION. Minimum items required for Close Out / Completion for submittal to the City of Green Cove Springs will include:</p> <p>(a) Construction Warranty from Developer in the form of a Bond, Letter of Credit or Cashier's Check for a two-year period.</p> <p>(b) Warranty Certificate for a two-year warranty from the contractor to the Developer and assignment of same to the City of Green Cove Springs (C.G.C.S.).</p> <p>(c) Developer's Affidavit certifying there is no outstanding debt against utility assets to be deemed to C.G.C.S.</p> <p>(d) Value of Acceptance Report showing value of assets to be deemed to the C.G.C.S.</p> <p>(e) Bill of Sale to C.G.C.S.</p> <p>(f) Bacteriological Test(s)</p> <p>(g) Pressure Test(s)</p> <p>(h) Television Reports and Tapes</p> <p>(i) Density Reports</p> <p>(j) PROPER Final As-Built Drawings and disks</p> <p>17. C.G.C.S. Shop Drawing and Submittal Process. A signed acknowledgment by the Contractor and the Material Supplier, on the "Shop Drawings and C.G.C.S.'s Approved Materials List Form", that all materials will be in accordance with C.G.C.S.'s Specifications, C.G.C.S.'s Details and C.G.C.S.'s Approved Materials Manual, is the only submittal C.G.C.S. will require for each item of materials with the following exception: any alternate materials requested by the Engineer; any materials not listed in the C.G.C.S. Materials Manual; and materials associated with pumping stations and plant installations. Those exceptions shall have an individual shop drawing submitted for C.G.C.S.'s review and approval prior to any installation of said materials.</p> <p>This is C.G.C.S.'s procedure and it does not preclude the design engineer from requiring additional submittals and shop drawings as he deems necessary for the project.</p> <p>18. PUMP STATIONS (TEMPORARY OR PERMANENT). All pump stations shall be constructed in accordance with C.G.C.S. standards, rules and regulations and be approved by C.G.C.S. All work and materials shall meet the requirements of C.G.C.S. Standard Pump Station Details and Specifications or the plans, details and specifications for that specific pump station. A driveway shall be provided from the street (roadway) to within 2 feet of the pump station wellhead, minimum 10 feet wide x 5 inches thick 3,000 P.S.I. concrete. Submersible pump stations shall be fenced completely about the perimeter of the pump station site (location of the pump station site as noted on the plans), including gates and all other items required to make a completely fenced installation. The entire pump station site within the fenced area shall be covered with #57 stone, 6 inch thick minimum, placed over 8 mil visqueen.</p> <p>19. Information shown on the Drawings as to the location of existing utilities has been prepared from the most reliable data available to the Engineer. The Contractor shall be responsible for requesting utility location information and shall assist the utility companies, by every means possible to determine said locations and the locations of recent additions to the systems not shown. Extreme caution shall be exercised to eliminate any possibility of any damage to utilities resulting from Contractor's activities. The locations of all overhead utilities shall also be verified by the Contractor. The Engineer shall be notified of any conflict that may occur. The Contractor shall be responsible for determining which poles will need shoring during excavation and shall provide such shoring and support as required.</p> <p>20. C.G.C.S. details and specifications (latest available copy) shall be included in all plans submitted for work within the C.G.C.S. utility system. No person shall modify, change, omit, replace any portion of those details and specifications without the express written consent of C.G.C.S.. In any instance where the design engineer has included his written specifications or details in the plans then the more stringent of the two shall govern.</p> <p>21. All materials to be used for any project within C.G.C.S.'s utility system shall conform to those materials listed in the C.G.C.S. approved material manual in effect at the time final plans for that project are approved by C.G.C.S.</p> <p>22. Under no circumstance shall any trees be planted within a C.G.C.S. utility easement without:</p> <p>a.) C.G.C.S. approving landscape and irrigation plans.</p> <p>b.) C.G.C.S. being notified prior to the planting of trees and giving approval.</p> <p>c.) C.G.C.S. inspection and approval of the work. The Engineer shall be notified of any conflict which are closer than 10' to any C.G.C.S. utility line) as shown in C.G.C.S. approved material manual and C.G.C.S. roadway cross section details, whether or not shown on the plans.</p> <p>23. At all Jack & Bore locations a C.G.C.S. inspector shall inspect the casing spacers to verify they are the correct size and have been installed correctly on the pipe prior to the pipe being installed into the pipe casing. The pipe casing shall be clean and free of all dirt, and shall be cleaned with a Vac-Con if necessary. A C.G.C.S. inspector shall be present at all time during this work.</p>									
PROJECT: CITY OF GREEN COVE SPRINGS 321 WALNUT STREET GREEN COVE SPRINGS, FLORIDA 32043										STANDARD WATER AND SEWER SYSTEM TECHNICAL SPECIFICATIONS									
ACAD FILE NAME SPECIFIC_D.DWG SHEET NO.										1 OF 1									

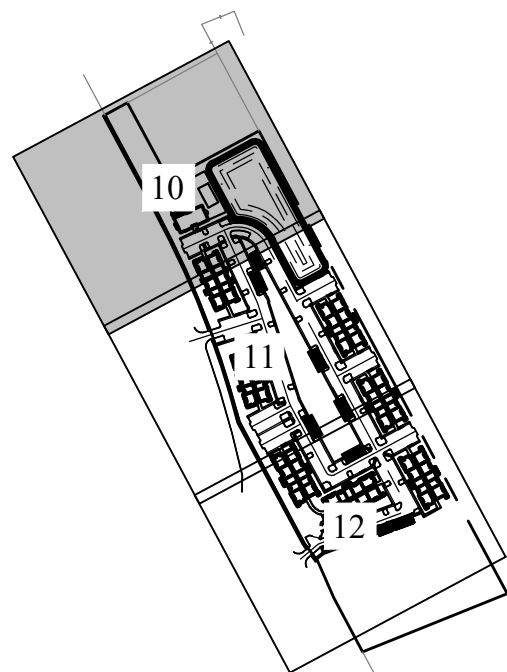
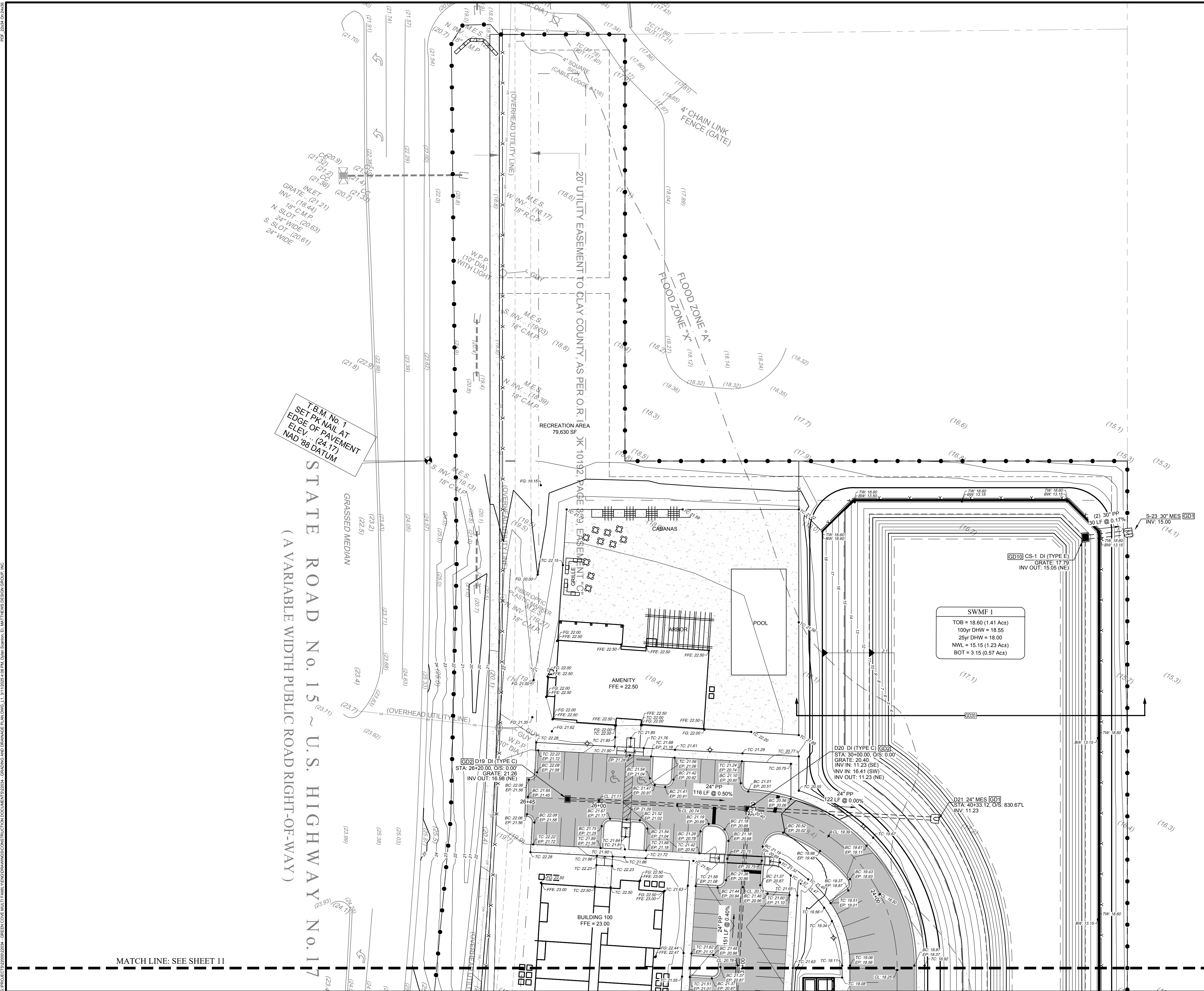
This sheet was created using AutoCAD LT 2017. The sheet was created by the user and the program must be updated to the latest version of the software.

EC1	STABILIZED CONSTRUCTION ENTRANCE
EC2	TYPE III SILT FENCE
EC3	WATTLE INLET PROTECTION
EC6	HAY BALE BARRIER CONSTRUCTION DETAILS





SHEET No.:	<div> <div>SITE PLAN</div> <div> <div>PRESERVE/AT GREEN COVE SPRINGS</div> <div>CITY OF GREEN COVE SPRINGS</div> <div>PREPARED FOR</div> <div>PC ACQUISITION LLC</div> </div> </div>	<div> <div>Matthews</div> <div> <div>P.O. BOX 3126, 7 WALDO STREET</div> <div>ST. AUGUSTINE, FL 32084</div> <div>PHONE: 904.826.1334 • FAX: 904.826.4547</div> <div>INFO@GMDINC.COM</div> </div> </div>	<div> <div>BCCM</div> </div>	DESIGNED BY		DTS	REVISED	
				DRAWN BY	DTS	NO.	DATE	DESCRIPTION
7	OF 25			CHK BY:	ARA			
				DATE:	03-12-25			
				JOB NO.:	22034			
				<div> <div>REGISTERED ENGINEER</div> <div>ALEX R. ACREE, P.E.</div> <div>CMP#26535 FL #73155</div> </div>				



GRAPHIC SCALE

0 30' 45' 60'

1" = 30'

GRADING & DRAINAGE DETAILS

- | | |
|------|---|
| GD1 | MITERED END SECTION |
| GD2 | PRECAST TYPE "C" INLET |
| GD5 | STANDARD MANHOLE |
| GD9 | PRECAST TYPE "E" INLET |
| GD10 | OUTFALL CONTROL STRUCTURE CS-1 (TYPE H) |
| GD14 | DOWNSPOUT COLLECTOR |
| GD20 | POND CROSS SECTION |
| GD33 | RIP-RAP APRON |

GRADING & DRAINAGE NOTES

- | | |
|-----|--|
| G01 | |
| G02 | |
| G03 | |

GRADING & DRAINAGE PLAN

PRESERVEAT GREEN COVE SPRINGS
CITY OF GREEN COVE SPRINGS

PREPARED FOR

Matthews | **DCCM**

P.O. BOX 3126, 7 WALDO STREET
ST. AUGUSTINE, FL 32084
PHONE: 904.826.1334 • FAX: 904.826.4547
INFO@MDGINC.COM

04.820.1334 - FAX: 904.820.1334
 INFO@MDGINC.COM

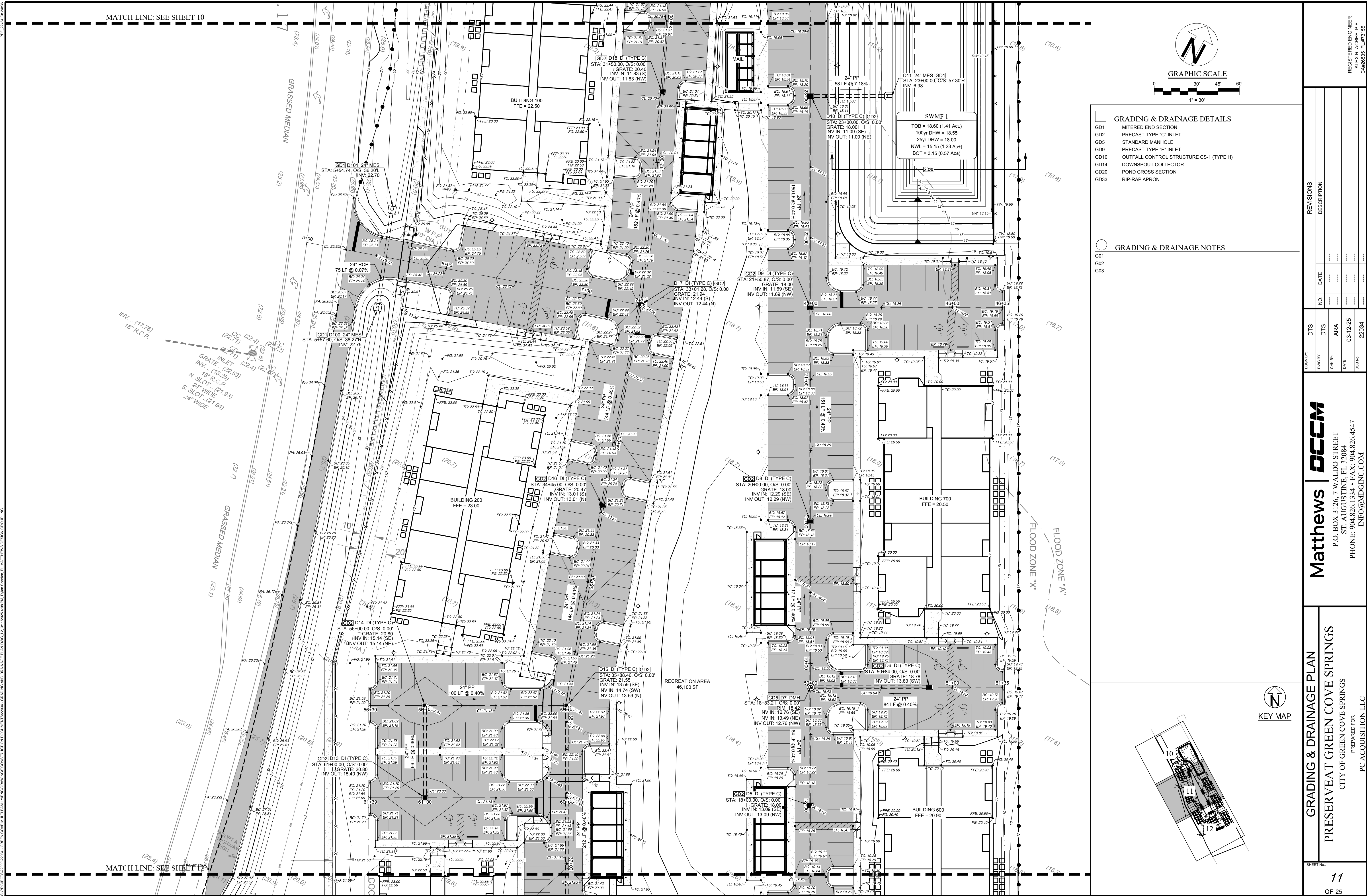
DSGN BY:	DTS
DWG BY:	DTS
CHK BY:	ARA
DATE:	03-12-2
JOB No.:	22034

REVISIONS			DESCRIPTION
NO.	DATE		
001-00-00	00-00-00		00-00-00
001-00-00	00-00-00		00-00-00
001-00-00	00-00-00		00-00-00
001-00-00	00-00-00		00-00-00
001-00-00	00-00-00		00-00-00

REGISTERED ENGINEER
ALEX R. ACREE, P.E.
CA#26535 FI #73155

This item has been digitally signed and sealed by ALEX R. ACREE, P.E. on the date adjacent to the seal.

GREEN COVE MULTI-FAMILY RESIDENCE CONSTRUCTION DOCUMENTS 2024 GRADING AND DRAINAGE PLAN (SHEET 11) 11/20/2024 10:21 AM Drawn By: E. Matthews Design Group, Inc.



GRAPHIC SCALE

0 30' 45' 60'

1" = 30'

GRADING & DRAINAGE DETAILS

GD1

MITERED END SECTION

GD2

PRECAST TYPE "C" INLET

GD5

STANDARD MANHOLE

GD9

PRECAST TYPE "E" INLET

GD10

OUTFALL CONTROL STRUCTURE CS-1 (TYPE H)

GD14

DOWNSPOUT COLLECTOR

GD20

POND CROSS SECTION

GD33

RIP-RAP APRON

GRADING & DRAINAGE NOTES

GD1

MITERED END SECTION

GD2

PRECAST TYPE "C" INLET

GD5

STANDARD MANHOLE

GD9

PRECAST TYPE "E" INLET

GD10

OUTFALL CONTROL STRUCTURE CS-1 (TYPE H)

GD14

DOWNSPOUT COLLECTOR

GD20

POND CROSS SECTION

GD33

RIP-RAP APRON

REVISIONS

NO.	DATE	DESCRIPTION
1	11/20/2024	ISSUED FOR PERMIT

DESIGN BY

DRAWN BY

CHECK BY

DATE

JOB NO.

DTS

DTS

APA

03-12-25

22034

Matthews

PCACM

P.O. BOX 3126, 7 WALDO STREET

ST. AUGUSTINE, FL 32084

PHONE: 904.826.1334 • FAX: 904.826.4547

INFO@MDGNC.COM

GRADING & DRAINAGE PLAN

PRESERVEAT GREEN COVE SPRINGS

CITY OF GREEN COVE SPRINGS

PREPARED FOR

PC ACQUISITION LLC

SHEET NO.

11

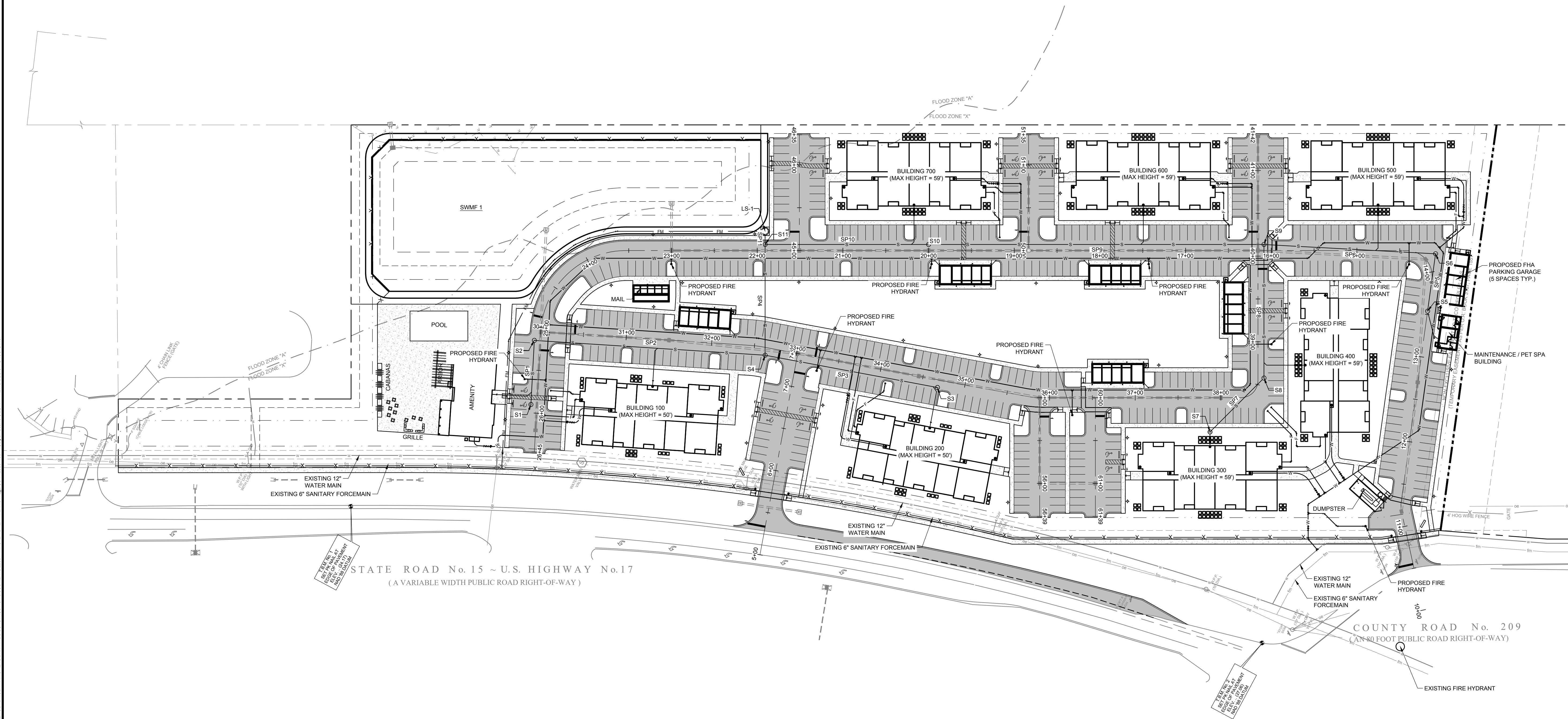
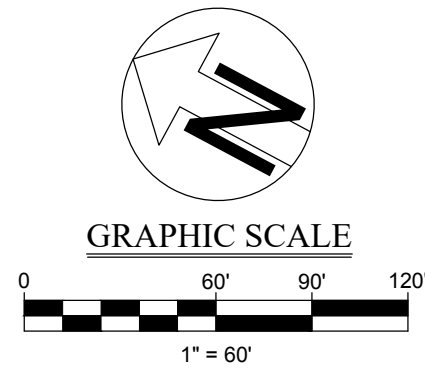
OF 25

This drawing was prepared by E. Matthews Design Group, Inc. (EMDG) under contract to the City of Green Cove Springs, Florida. EMDG is not responsible for the accuracy of the information provided by the City of Green Cove Springs. The City of Green Cove Springs is not responsible for the accuracy of the information provided by EMDG. The City of Green Cove Springs is not responsible for the accuracy of the information provided by EMDG. The City of Green Cove Springs is not responsible for the accuracy of the information provided by EMDG.



STRUCTURE TABLE				
STRUCTURE	TYPE	RM	INV IN	INV OUT
LS-1	Wet Well	18.77	10.58 (SW)	
S1	San Concrete Manhole (With Cone)	21.11		14.65 (NE)
S2	San Concrete Manhole (With Cone)	20.55	14.35 (SW)	14.25 (SE)
S3	San Concrete Manhole (With Cone)	20.74		14.90 (N)
S4	San Concrete Manhole (With Cone)	21.65	13.17 (NW) 14.08 (S)	13.07 (NE)
S5	San Concrete Manhole (With Cone)	20.83		15.30 (E)
S6	San Concrete Manhole (With Cone)	20.17	15.03 (W)	14.93 (NW)
S7	San Concrete Manhole (With Cone)	21.30		14.35 (E)
S8	San Concrete Manhole (With Cone)	20.42	13.99 (W)	13.89 (NE)
S9	San Concrete Manhole (With Cone)	19.97	13.27 (SW) 14.13 (SE)	13.17 (NW)
S10	San Concrete Manhole (With Cone)	18.07	11.60 (SE)	11.50 (NW)
S11	San Concrete Manhole (With Cone)	18.27	12.55 (SW) 10.74 (SE)	10.84 (NE)

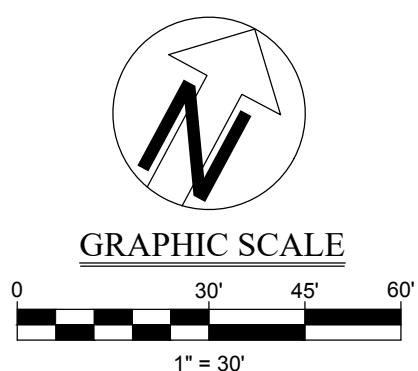
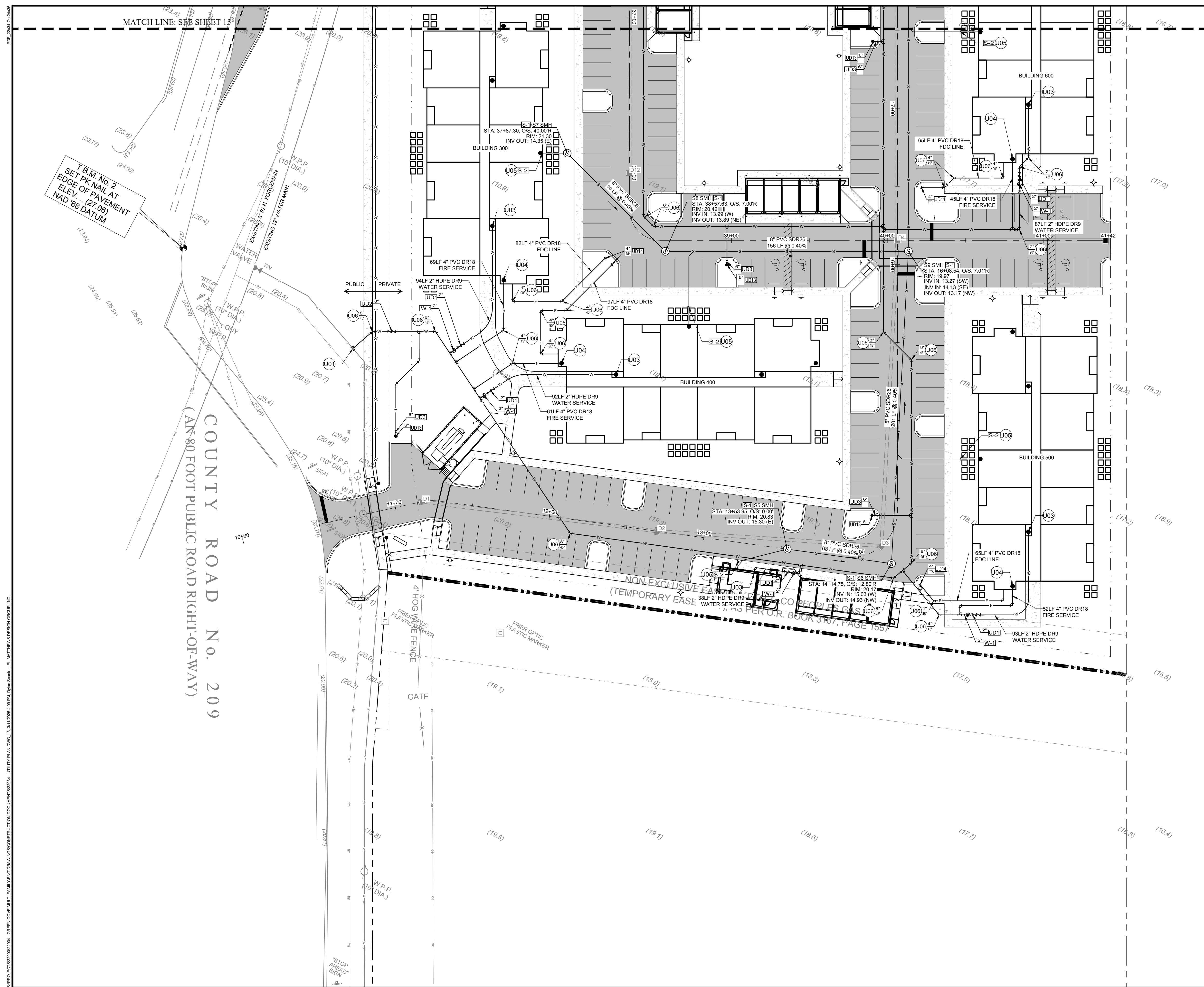
PIPE TABLE				
PIPE	SIZE	MATERIAL	LENGTH	SLOPE
SP1	8"	PVC SDR26	7'6"	0.40%
SP2	8"	PVC SDR26	270'	0.40%
SP3	8"	PVC SDR26	205'	0.40%
SP4	8"	PVC SDR26	130'	0.40%
SP5	8"	PVC SDR26	68'	0.40%
SP6	8"	PVC SDR26	201'	0.40%
SP7	8"	PVC SDR26	90'	0.40%
SP8	8"	PVC SDR26	156'	0.40%
SP9	8"	PVC SDR26	392'	0.40%
SP10	8"	PVC SDR26	191'	0.40%
SP11	8"	PVC SDR26	16'	0.40%



DESIGN BY		DTS		REVISIONS	
DWG BY:		DWG BY:		NO.	DATE
CHK BY:		CHK BY:			
DATE:	03-12-25	DATE:			
APP NO.:	22034	APP NO.:			

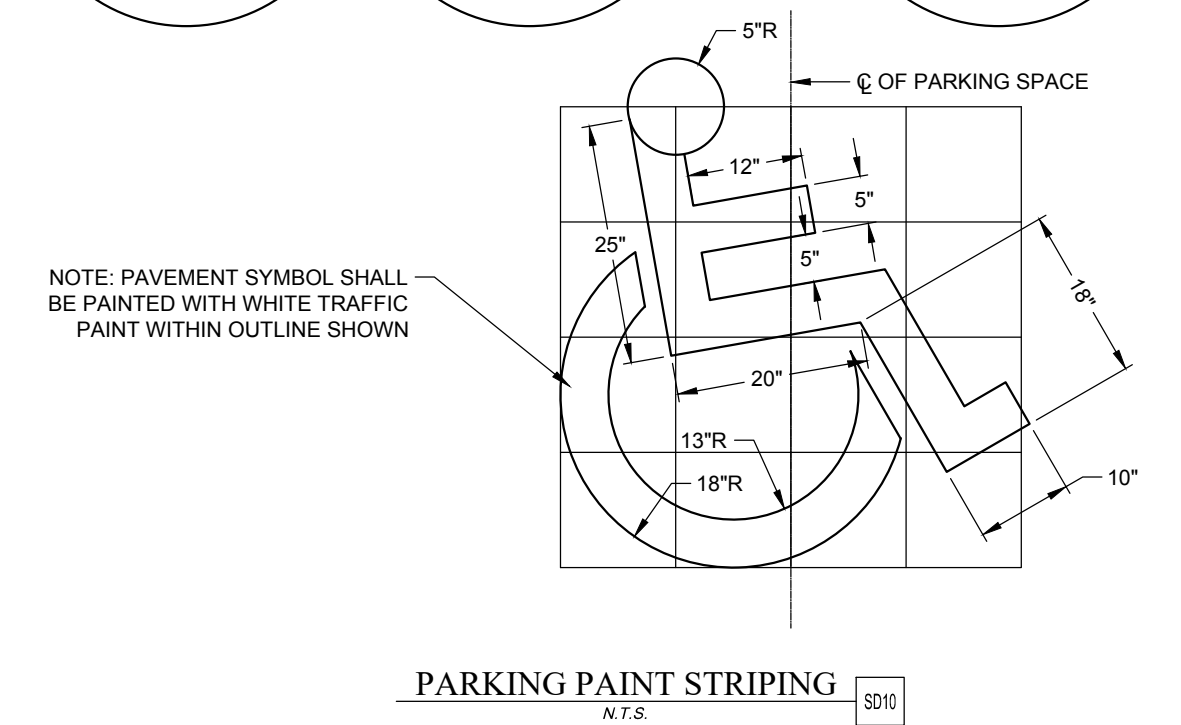
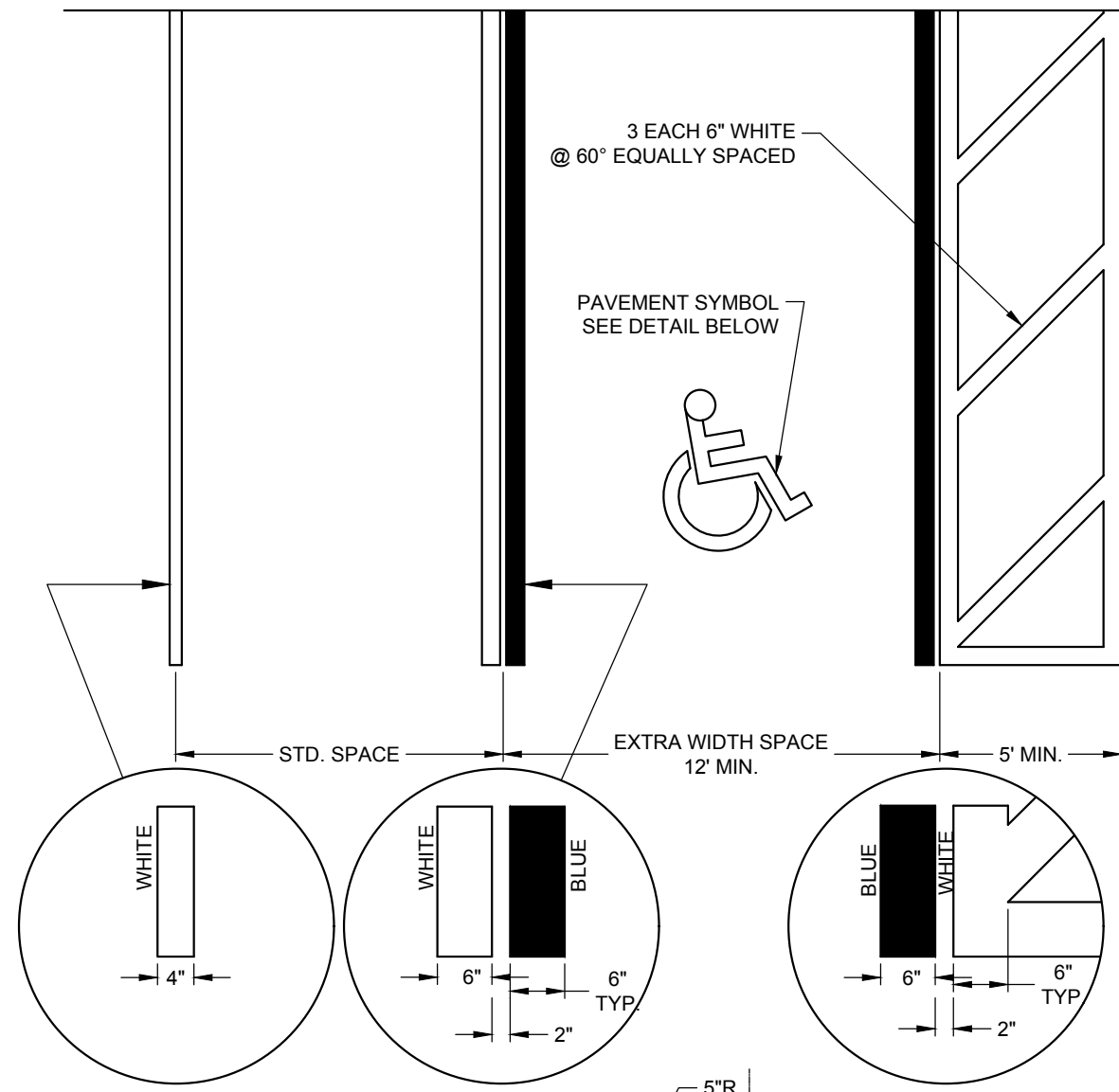
Matthews | **DCCM**
P.O. BOX 3126, 7 WALDO STREET
ST. AUGUSTINE, FL 32084
PHONE: 904.826.1334 • FAX: 904.826.4547
INFO@MDMGINC.COM

MASTER UTILITY PLAN
PRESERVE/AT GREEN COVE SPRINGS
CITY OF GREEN COVE SPRINGS
PREPARED FOR
PC ACQUISITION LLC

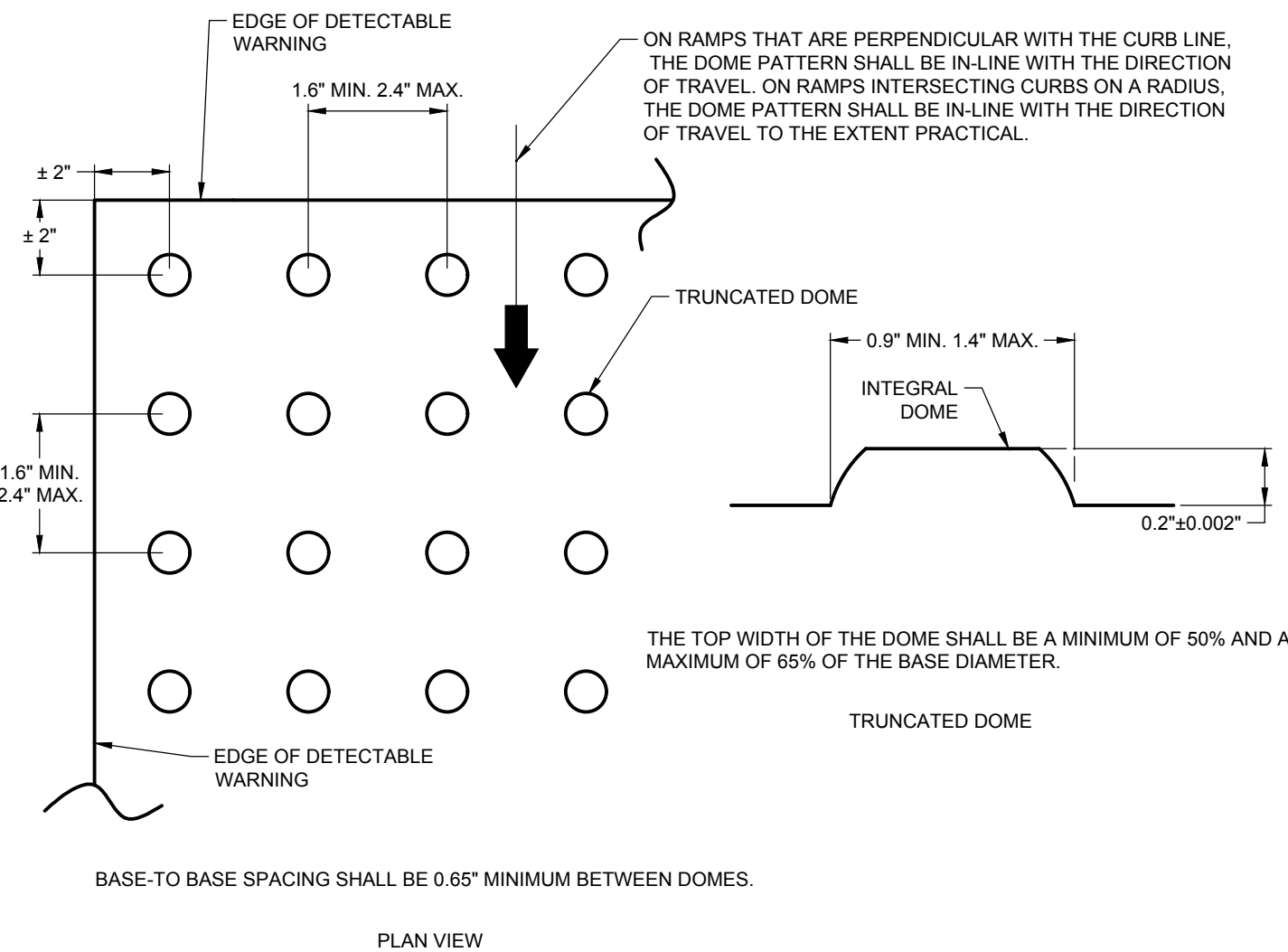


REVISIONS	
NO	DATE
1	10-1-2010
2	10-1-2010
3	10-1-2010
4	10-1-2010
5	10-1-2010
6	10-1-2010
7	10-1-2010
8	10-1-2010
9	10-1-2010
10	10-1-2010
11	10-1-2010
12	10-1-2010
13	10-1-2010
14	10-1-2010
15	10-1-2010
16	10-1-2010
17	10-1-2010
18	10-1-2010
19	10-1-2010
20	10-1-2010
21	10-1-2010
22	10-1-2010
23	10-1-2010
24	10-1-2010
25	10-1-2010
26	10-1-2010
27	10-1-2010
28	10-1-2010
29	10-1-2010
30	10-1-2010
31	10-1-2010
32	10-1-2010
33	10-1-2010
34	10-1-2010
35	10-1-2010
36	10-1-2010
37	10-1-2010
38	10-1-2010
39	10-1-2010
40	10-1-2010
41	10-1-2010
42	10-1-2010
43	10-1-2010
44	10-1-2010
45	10-1-2010
46	10-1-2010
47	10-1-2010
48	10-1-2010
49	10-1-2010
50	10-1-2010
51	10-1-2010
52	10-1-2010
53	10-1-2010
54	10-1-2010
55	10-1-2010
56	10-1-2010
57	10-1-2010
58	10-1-2010
59	10-1-2010
60	10-1-2010
61	10-1-2010
62	10-1-2010
63	10-1-2010
64	10-1-2010
65	10-1-2010
66	10-1-2010
67	10-1-2010
68	10-1-2010
69	10-1-2010
70	10-1-2010
71	10-1-2010
72	10-1-2010
73	10-1-2010
74	10-1-2010
75	10-1-2010
76	10-1-2010
77	10-1-2010
78	10-1-2010
79	10-1-2010
80	10-1-2010
81	10-1-2010
82	10-1-2010
83	10-1-2010
84	10-1-2010
85	10-1-2010
86	10-1-2010
87	10-1-2010
88	10-1-2010
89	10-1-2010
90	10-1-2010
91	10-1-2010
92	10-1-2010
93	10-1-2010
94	10-1-2010
95	10-1-2010
96	10-1-2010
97	10-1-2010
98	10-1-2010
99	10-1-2010
100	10-1-2010

GREEN COVE MULTI-FAMILY RESIDUALS CONSTRUCTION DOCUMENTS 2024 - CONSTRUCTION DETAIL DWG. 11 - 3/1/2024 LGS PA, CHW, SHAWK, EL, MATTHEWS DESIGN GROUP, INC.



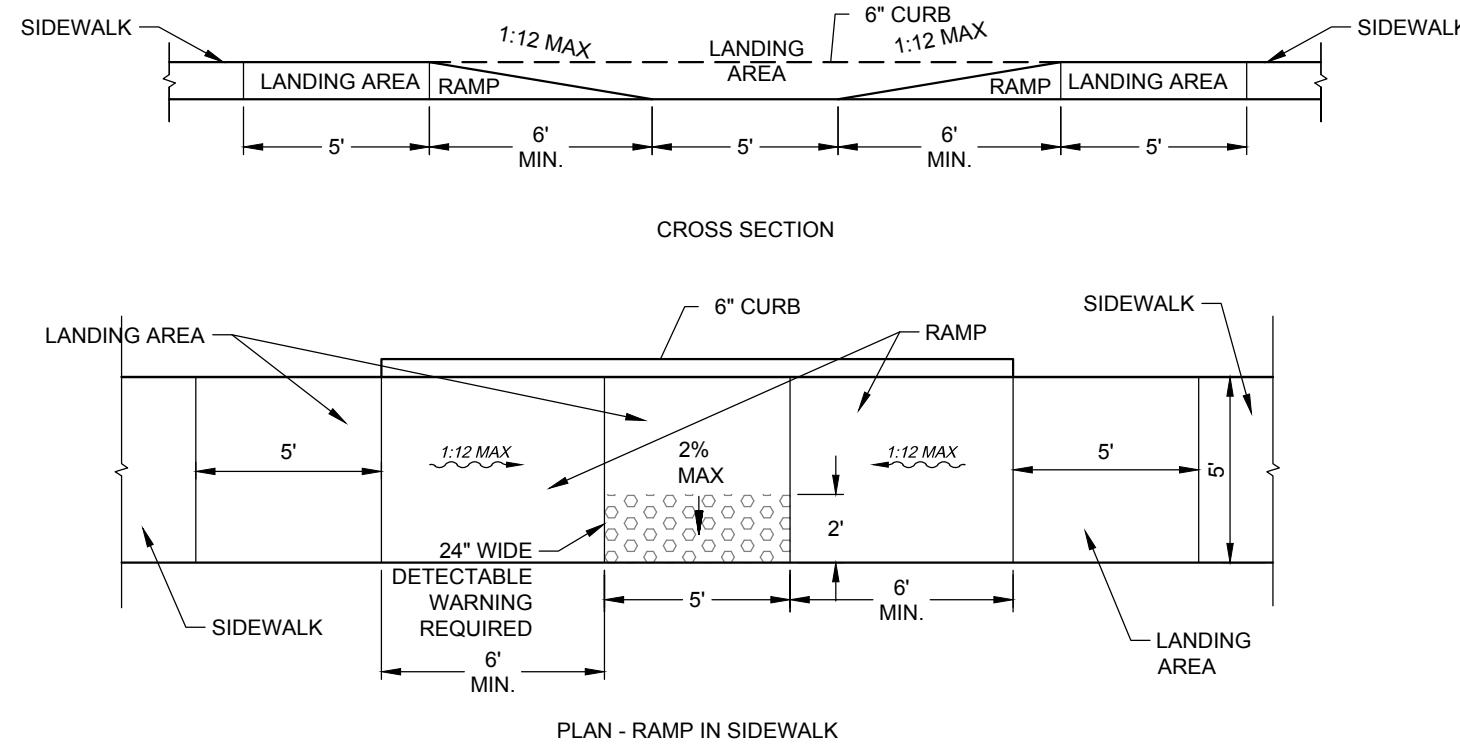
PARKING PAINT STRIPING
N.T.S. SD01



NOTES:

- ALL SIDEWALK CURB RAMPS SHALL HAVE DETECTABLE WARNING SURFACES THAT EXTEND THE FULL WIDTH OF THE RAMP AND IN THE DIRECTION OF TRAVEL 24 INCHES FROM THE BACK OF CURB.
- SEE FDOT STANDARD INDEX 522-002, LATEST EDITION FOR MORE DETAILS.
- DETECTABLE WARNING SURFACE SHALL BE "SAFETY YELLOW" COMPOSITE MATERIAL ANCHORED IN THE RAMP. WARNING SURFACE SHALL BE SET INTO THE CONCRETE AND BE FLUSH WITH CONCRETE SURFACE ALONG ALL FOUR SIDES.
- DETECTABLE WARNING SURFACE TO BE CAST IN PLACE COMPOSITE TACTILE BY ADA SOLUTIONS, INC. OR CAST IN PLACE DETECTABLE WARNING PANEL BY ARMORCAST.

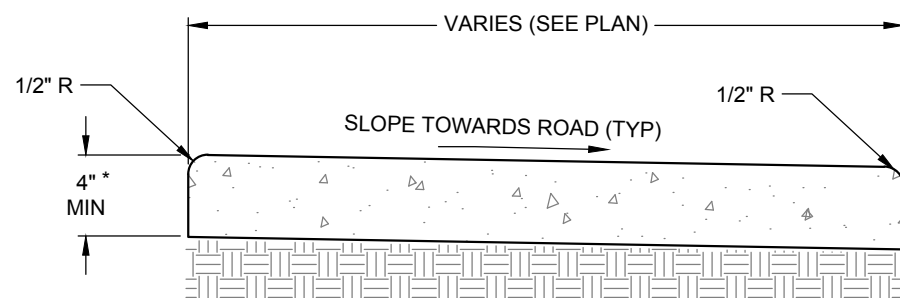
DETECTABLE WARNING DETAIL
N.T.S. SD08



NOTES:

- THE SURFACE OF RAMP SHALL HAVE A TRANSVERSE BROOMED SURFACE TEXTURE ROUGHER THAN THE SURROUNDING SIDEWALK.
- RAMP SIDE SLOPE VARIES UNIFORMLY FROM A MAXIMUM OF UP TO 8% AT CURB TO CONFORM WITH LONGITUDINAL SIDEWALK SLOPE ADJACENT TO TOP OF THE RAMP.
- CONSTRUCT PER A.D.A. STANDARDS.
- DETECTABLE WARNING SURFACE SHALL BE "SAFETY YELLOW" COMPOSITE MATERIAL ANCHORED IN THE RAMP. WARNING SURFACE SHALL BE SET INTO THE CONCRETE AND BE FLUSH WITH CONCRETE SURFACE ALONG ALL FOUR SIDES.
- DETECTABLE WARNING SURFACE TO BE CAST IN PLACE COMPOSITE TACTILE BY ADA SOLUTIONS, INC. OR CAST IN PLACE DETECTABLE WARNING PANEL BY ARMORCAST.
- DETECTABLE WARNING AREA SHALL CONFORM TO FDOT STANDARD INDEX 522-002 AND 28 CFR PART 36 APPENDIX A, LATEST REVISION.

WHEELCHAIR RAMP IN SIDEWALK
N.T.S. SD07



NOTES:

- DISTANCE BETWEEN SCORE LINE NOT TO EXCEED 5' IN LONGITUDINAL & TRAVERSE DIRECTION IN SIDEWALK.
- SIDEWALK IS TO BE CONCRETE WITH A MINIMUM STRENGTH OF 3,000 PSI.
- MAX 2% CROSS SLOPE PER ADA

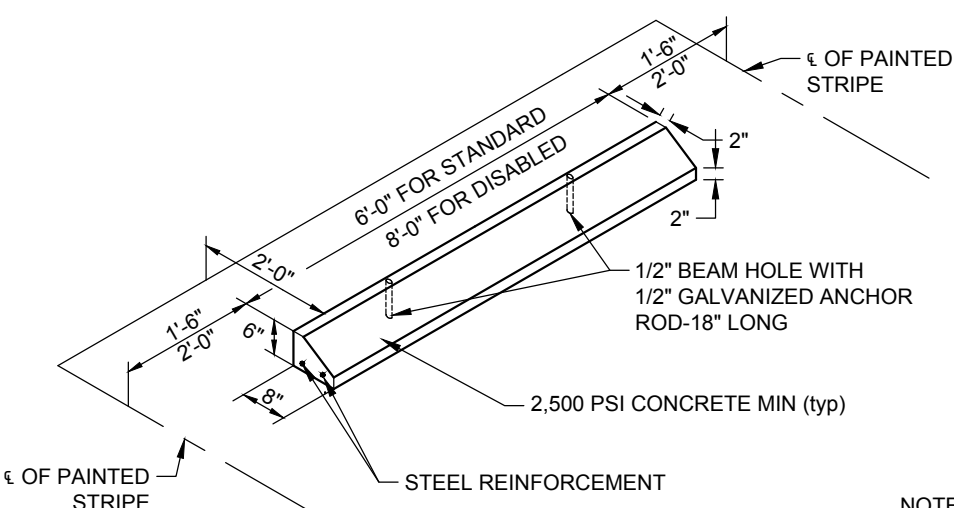
* SIDEWALK SHALL BE 6\"/>

CONCRETE SIDEWALK DETAIL
N.T.S. SD09

SUB-CONSULTANT
TYPE: (EX. GEOTECHNICAL)
ADDRESS LINE 1
CITY, STATE ZIP
CONTACT:
PHONE:

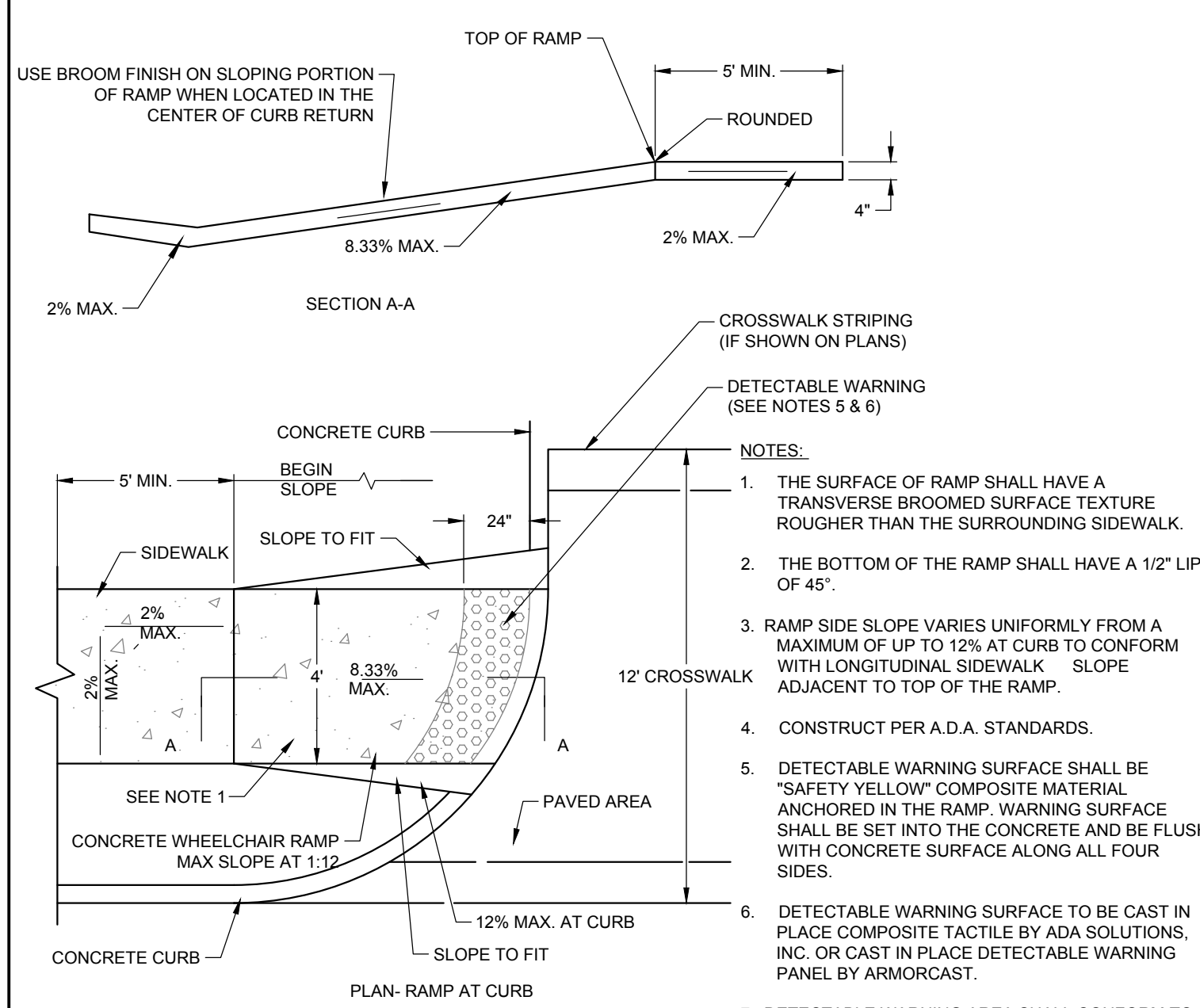
SUB-CONSULTANT
TYPE:
ADDRESS LINE 1
CITY, STATE ZIP
CONTACT:
PHONE:

TYPICAL PAVEMENT
SECTION
N.T.S. SD01

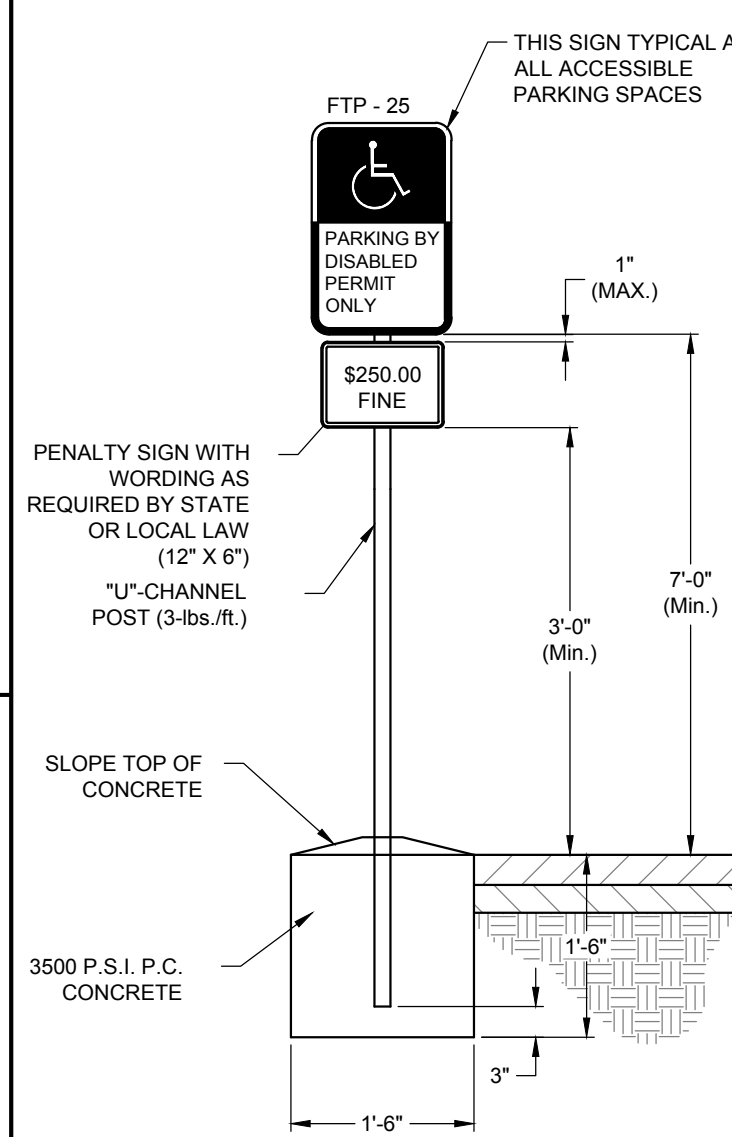


NOTE:
WHEEL STOP SHOULD BE PAINTED
CONTRASTING COLOR TO
SURROUNDING PAVEMENT.

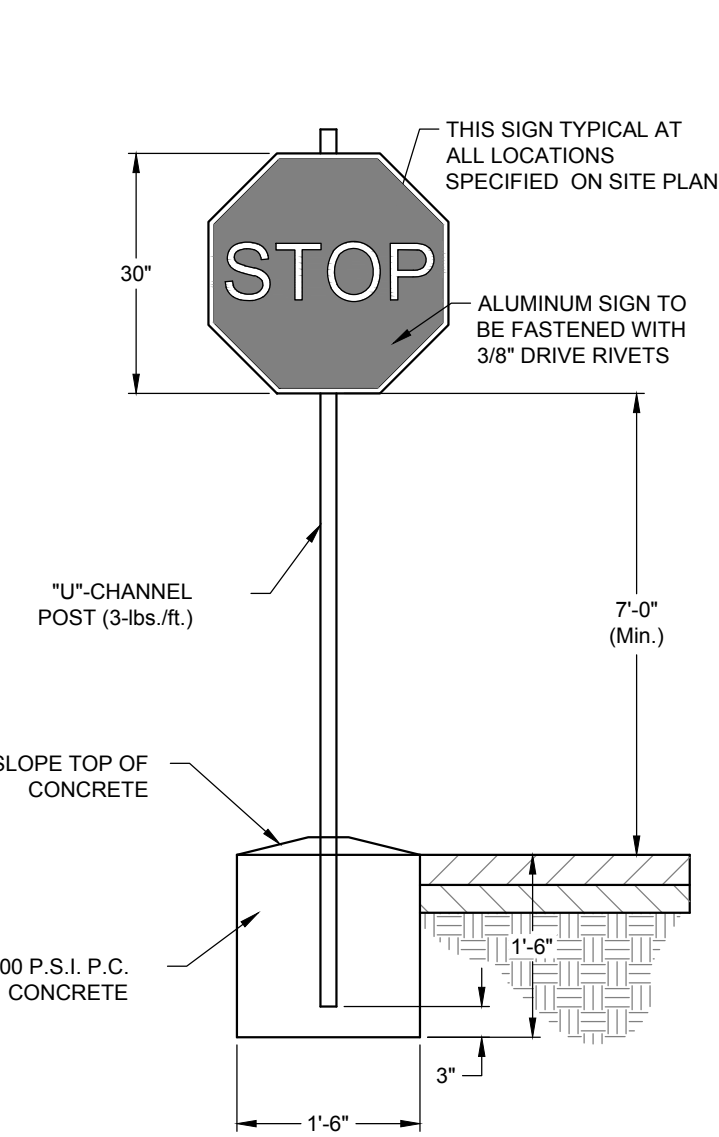
PRECAST CONCRETE
WHEELSTOP
N.T.S. SD12



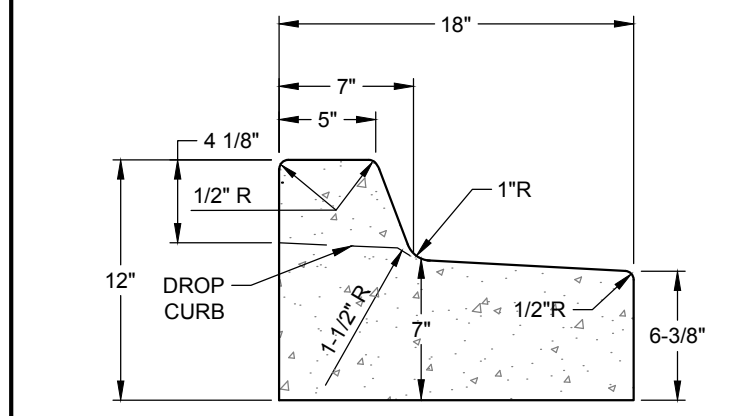
WHEELCHAIR RAMP IN SIDEWALK AT CURB RETURN
N.T.S. SD08



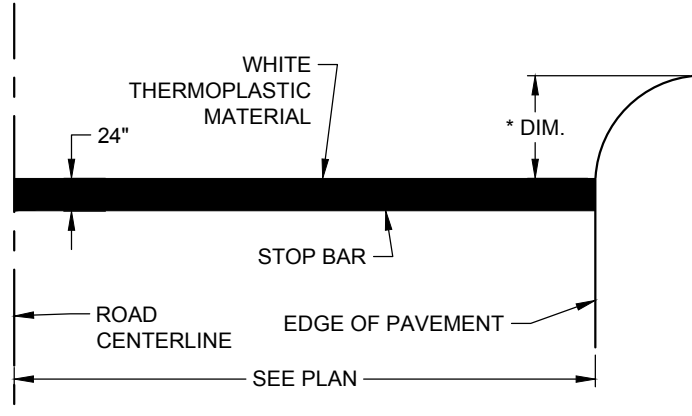
ACCESSIBLE PARKING SIGN
N.T.S. SD15



STOP SIGN
N.T.S. SD8

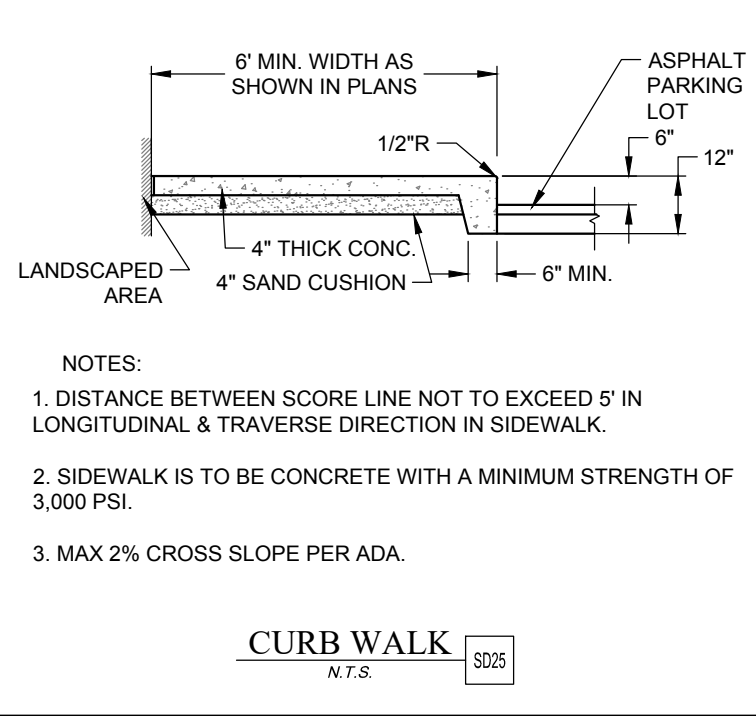


18\"/>



* "STOP BAR" TO BE 10' BACK FROM EDGE
LINE OR 4' BACK FROM ANY SIDEWALK. SEE
CONSTRUCTION PLANS FOR EXACT
LOCATION OF STOP BAR.

STOP BAR
N.T.S. SD18



NOTES:

- DISTANCE BETWEEN SCORE LINE NOT TO EXCEED 5' IN LONGITUDINAL & TRAVERSE DIRECTION IN SIDEWALK.
- SIDEWALK IS TO BE CONCRETE WITH A MINIMUM STRENGTH OF 3,000 PSI.
- MAX 2% CROSS SLOPE PER ADA.

CURB WALK
N.T.S. SD05

CONSTRUCTION DETAILS

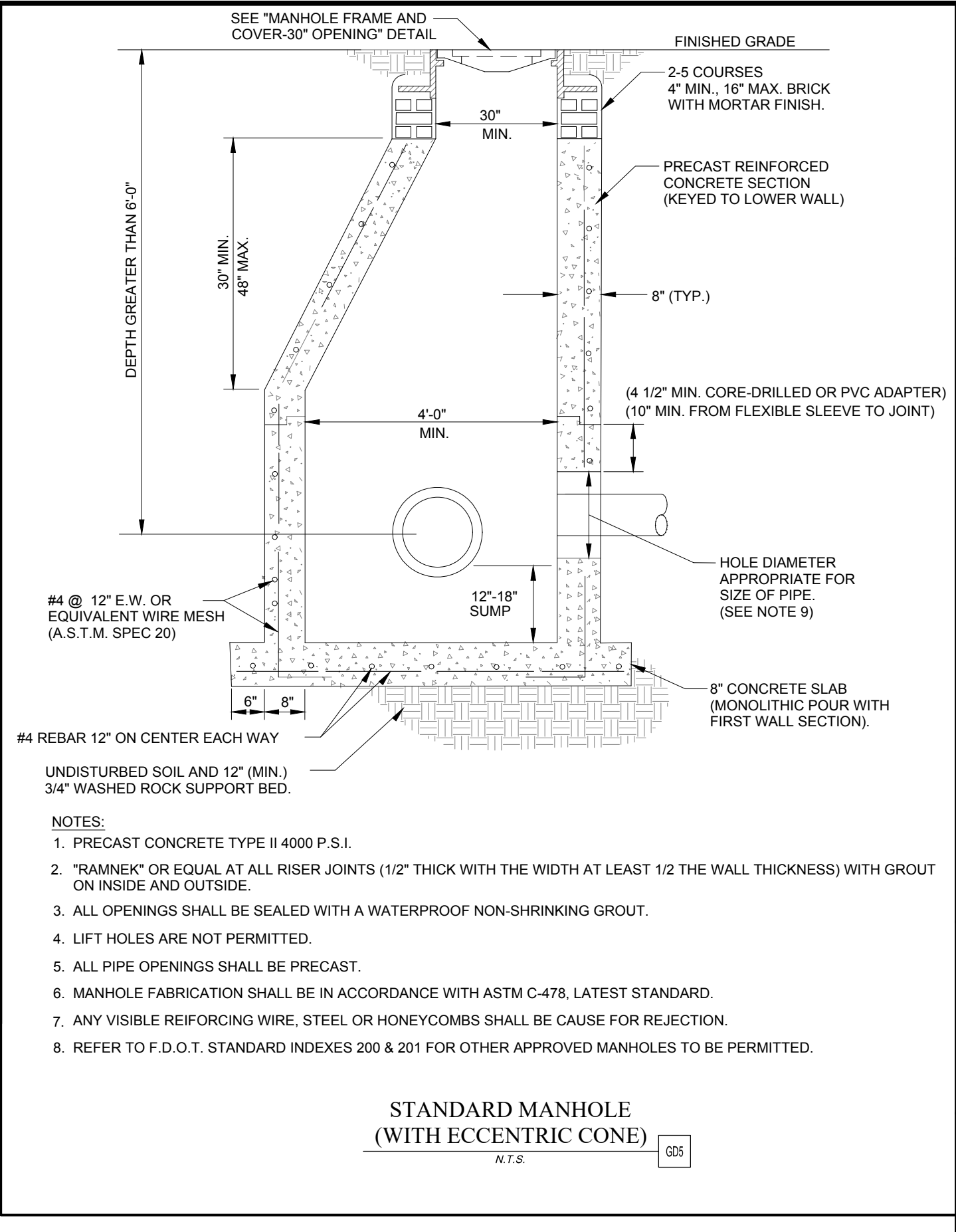
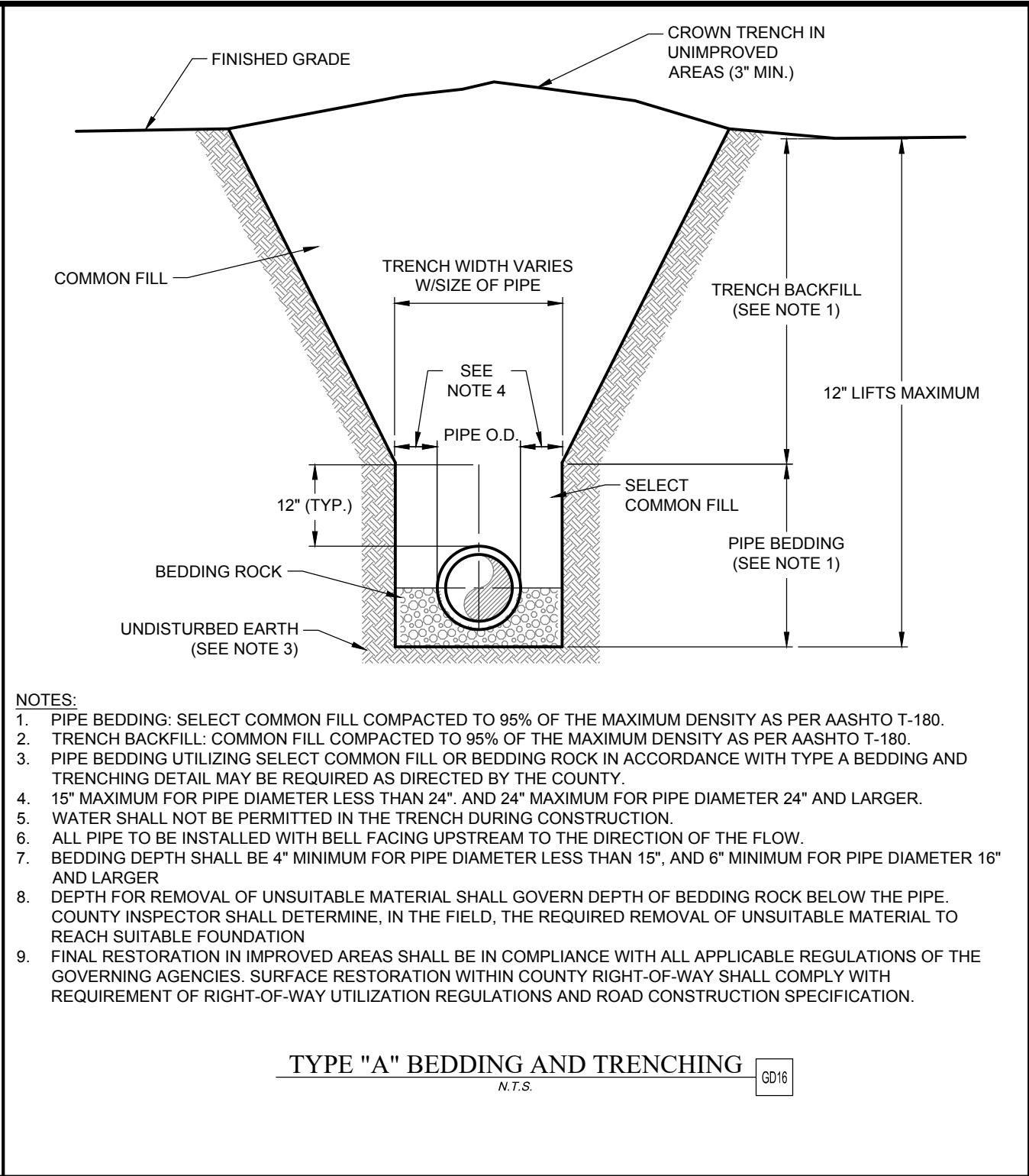
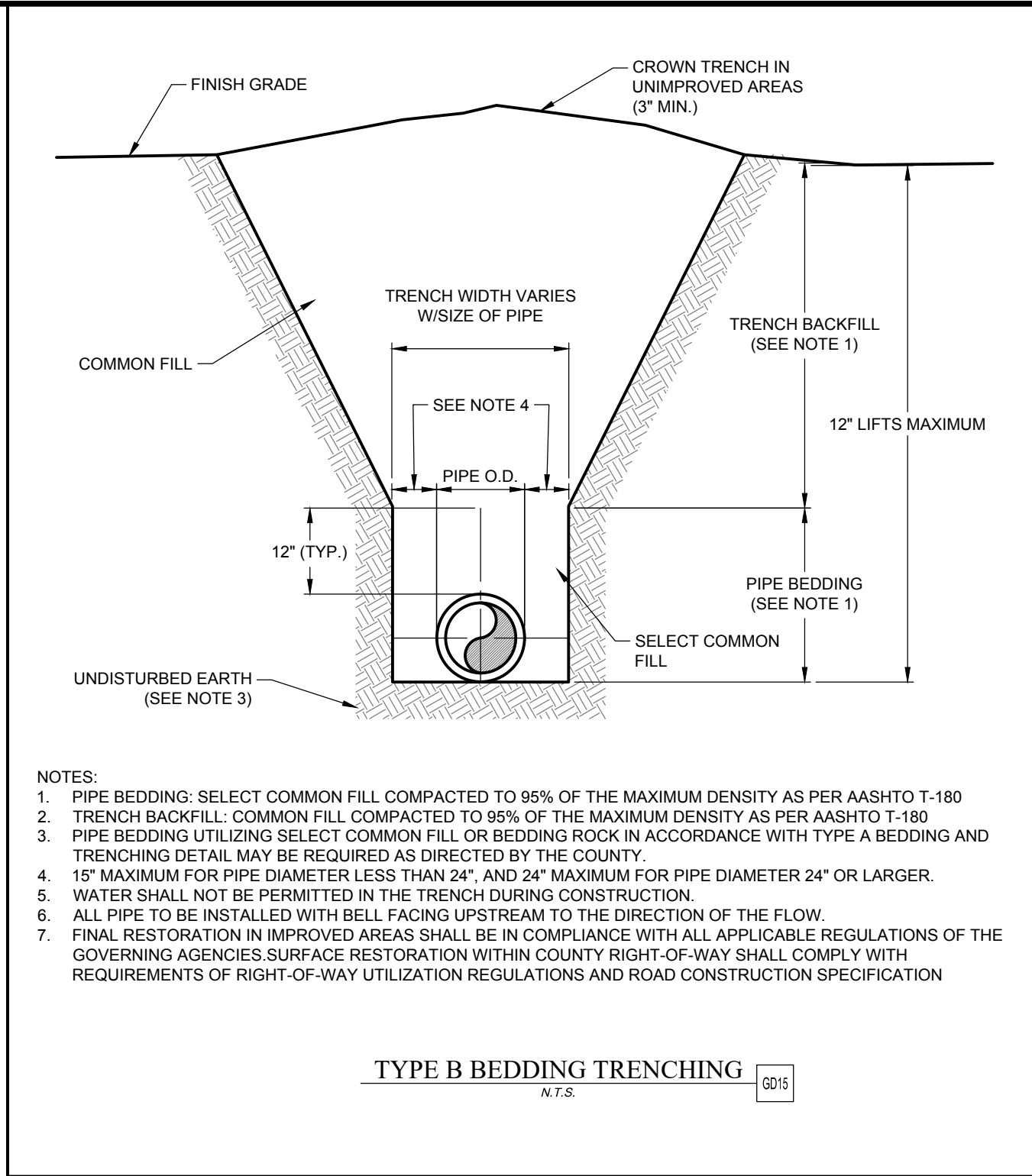
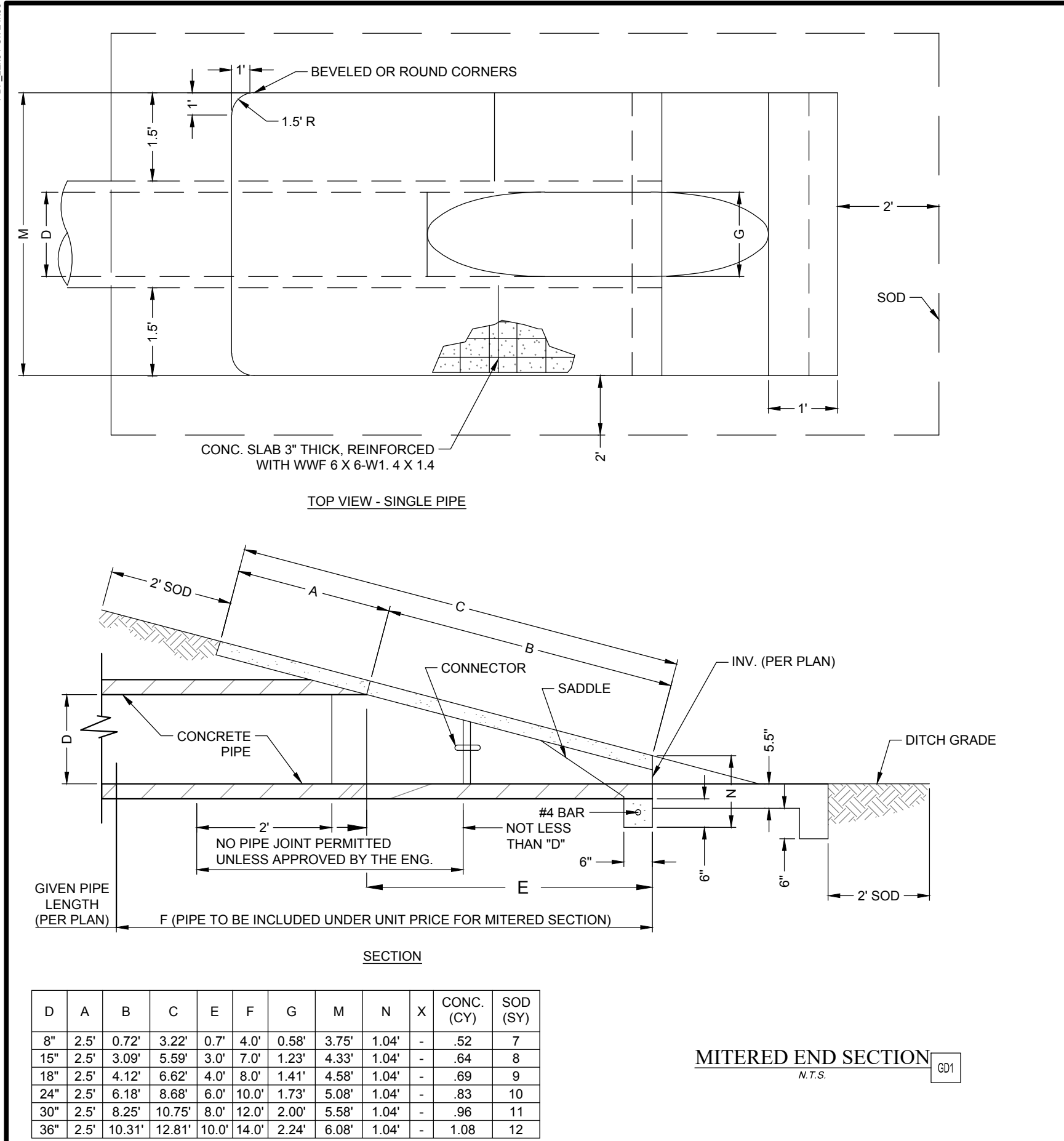
PRESERVEAT GREEN COVE SPRINGS
CITY OF GREEN COVE SPRINGS
PREPARED FOR
PC ACQUISITION LLC

Matthews | **DCCM**
P.O. BOX 3126, 7 WALDO STREET
ST. AUGUSTINE, FL 32084
PHONE: 904.826.1334 • FAX: 904.826.4547
INFO@MDGINC.COM

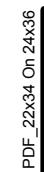
DESIGN BY	DTS	DATE	NO.	REVISIONS
DWY BY	DTS	DATE	NO.	DESCRIPTION
CHK BY	ARA	DATE	NO.	
DATE	03-12-25			
JOB NO.	22034			

REGISTERED ENGINEER
J. E. MATTHEWS
CAP6553, FL #75155

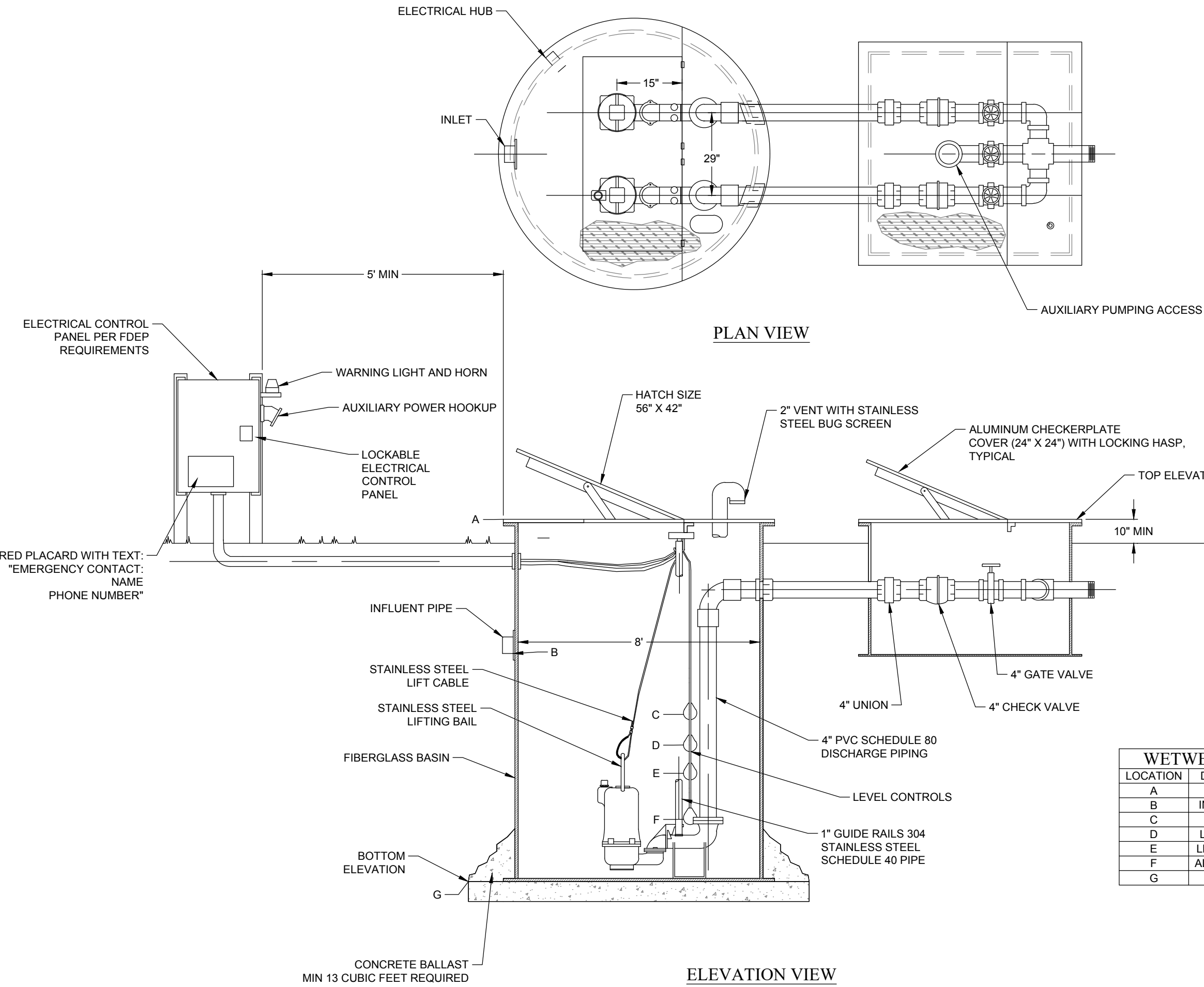
© 2020 MDC GROUP, INC. ALL RIGHTS RESERVED. THIS DOCUMENT IS THE PROPERTY OF MDC GROUP, INC. AND IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, WITHOUT PERMISSION IN WRITING FROM MDC GROUP, INC. THE INFORMATION CONTAINED HEREIN IS FOR INFORMATIONAL PURPOSES ONLY AND IS NOT TO BE USED FOR ANY OTHER PURPOSE. THE INFORMATION CONTAINED HEREIN IS NOT TO BE USED FOR ANY OTHER PURPOSE. THE INFORMATION CONTAINED HEREIN IS NOT TO BE USED FOR ANY OTHER PURPOSE.



REVISIONS		DATE		DESCRIPTION	
NO.	DATE	NO.	DATE	NO.	DATE
1		2		3	
4		5		6	
7		8		9	
10		11		12	
13		14		15	
16		17		18	
19		20		21	
22		23		24	
25		26		27	
28		29		30	
31		32		33	
34		35		36	
37		38		39	
40		41		42	
43		44		45	
46		47		48	
49		50		51	
52		53		54	
55		56		57	
58		59		60	
61		62		63	
64		65		66	
67		68		69	
70		71		72	
73		74		75	
76		77		78	
79		80		81	
82		83		84	
85		86		87	
88		89		90	
91		92		93	
94		95		96	
97		98		99	
100		101		102	
103		104		105	
106		107		108	
109		110		111	
112		113		114	
115		116		117	
118		119		120	
121		122		123	
124		125		126	
127		128		129	
130		131		132	
133		134		135	
136		137		138	
139		140		141	
142		143		144	
145		146		147	
148		149		150	
151		152		153	
154		155		156	
157		158		159	
160		161		162	
163		164		165	
166		167		168	
169		170		171	
172		173		174	
175		176		177	
178		179		180	
181		182		183	
184		185		186	
187		188		189	
190		191		192	
193		194		195	
196		197		198	
199		200		201	
202		203		204	
205		206		207	
208		209		210	
211		212		213	
214		215		216	
217		218		219	
220		221		222	
223		224		225	
226		227		228	
229		230		231	
232		233		234	
235		236		237	
238		239		240	
241		242		243	
244		245		246	
247		248		249	
250		251		252	
253		254		255	
256		257		258	
259		260		261	
262		263		264	
265		266		267	
268		269		270	
271		272		273	
274		275		276	
277		278		279	
280		281		282	
283		284		285	
286		287		288	
289		290		291	
292		293		294	
295		296		297	
298		299		300	
301		302		303	
304		305		306	
307		308		309	
310		311		312	
313		314		315	
316		317		318	
319		320		321	
322		323		324	
325		326		327	
328		329		330	
331		332		333	
334		335		336	
337		338		339	
340		341		342	
343		344		345	
346		347		348	
349		350		351	
352		353		354	
355		356		357	
358		359		360	
361		362		363	
364		365		366	
367		368		369	
370		371		372	
373		374		375	
376		377		378	
379		380		381	
382		383		384	
385		386		387	
388		389		390	
391		392		393	
394		395		396	
397		398		399	
400		401		402	
403		404		405	
406		407		408	
409		410		411	
412		413		414	
415		416		417	
418		419		420	
421		422		423	
424		425		426	
427		428		429	
430		431		432	
433		434		435	
436		437		438	
439		440		441	
442		443		444	
445		446		447	
448		449		450	
451		452		453	
454		455		456	
457		458		459	
460		461		462	
463		464		465	
466		467		468	
469		470		471	
472		473		474	
475		476		477	
478		479		480	
481		482		483	
484		485		486	
487		488		489	
490		491		492	
493		494		495	
496		497		498	
499		500		501	
502		503		504	
505		506		507	
508		509		510	
511		512		513	
514		515		516	
517		518		519	
520		521		522	
523		524		525	
526		527		528	
529		530		531	
532		533		534	
535		536		537	
538		539		540	
541		542		543	
544		545		546	
547		548		549	
550		551		552	
553		554		555	
556		557		558	
559		560		561	
562		563		564	
565		566		567	
568		569		570	
571		572		573	
574		575		576	
577		578		579	
580		581		582	
583		584		585	
586		587		588	
589		590		591	
592		593		594	
595		596		597	
598		599		600	
601		602		603	
604		605		606	
607		608		609	
610		611		612	
613		614		615	
616		617		618	
619		620		621	
622		623		624	
625		626		627	
628		629		630	
631		632		633	
634		635		636	
637		638		639	
640		641		642	
643		644		645	
646		647		648	
649		650		651	
652		653		654	
655		656		657	
658		659		660	
661		662		663	
664		665		666	
667		668		669	
670		671		672	
673		674		675	
676		677		678	
679		680		681	
682		683		684	
685		686		687	
688		689		690	
691		692		693	
694		695		696	
697		698		699	
700		701		702	
703		704		705	
706		707		708	
709		710		711	
712		713		714	
715		716		717	
718		719		720	
721		722		723	
724		725		726	
727		728		729	
730		731		732	
733		734		735	
736		737		738	
739		740		741	
742		743		744	
745		746		747	
748		749		750	
751		752		753	
754		755		756	
757		758		759	
760		761		762	
763		764		765	
766		767		768	
769		770		771	
772		773		774	
775		776		777	
778		779		780	
781		782		783	
784		785		786	
787		788		789	
790		791		792	
793		794		795	
796		797		798	
799		800		801	
802		803		804	
805		806		807	
808		809		810	
811		812		813	
814		815		816	
817		818		819	
820		821		822	
823		824		825	



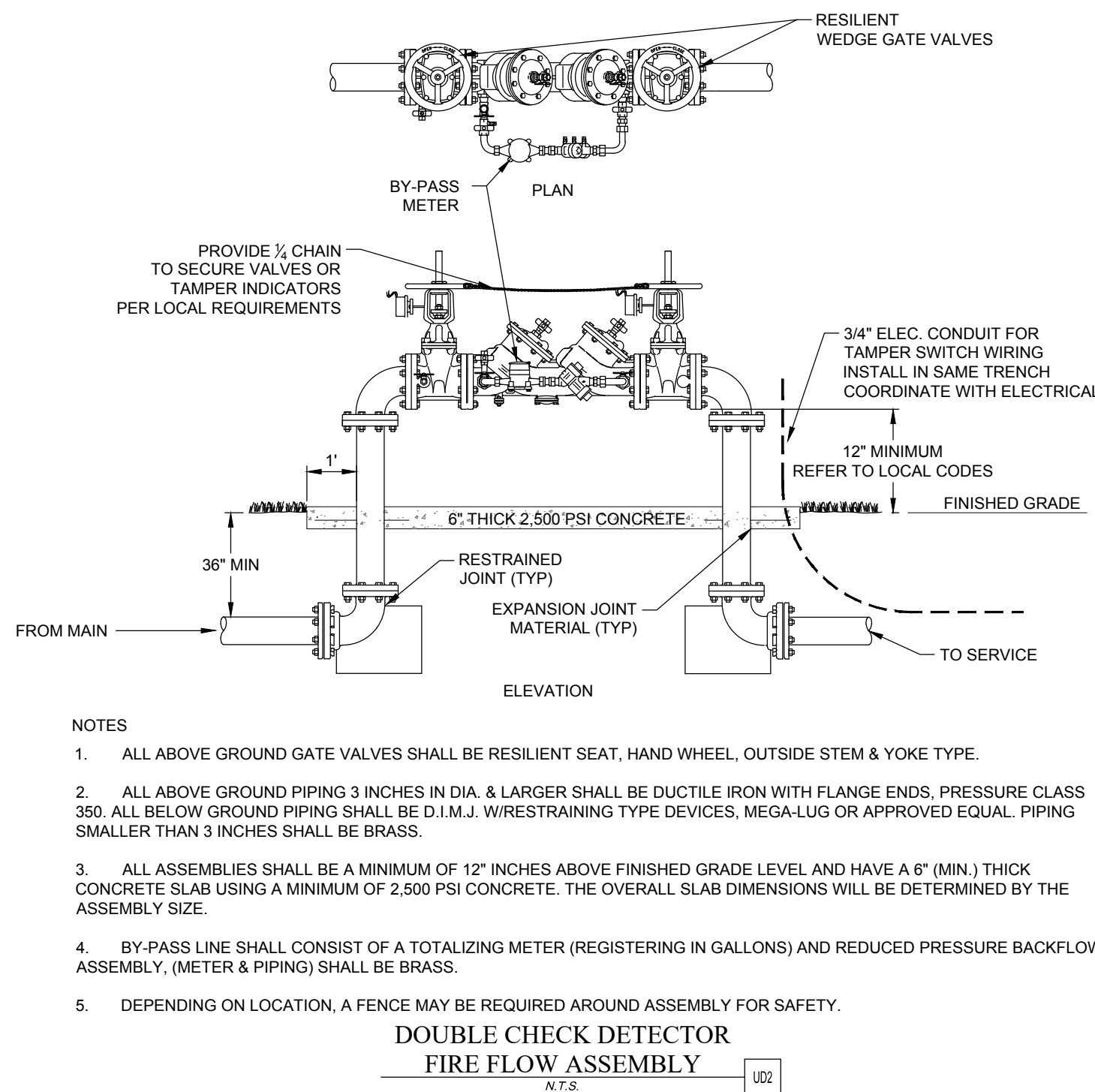
PPF 2024-02-26-05
GREEN COVE MULTI-FAMILY RESIDENTIAL CONSTRUCTION DOCUMENTS 2024 - CONSTRUCTION DETAIL DWG. 15 - 2/1/2025 4:05 PM, 0246 SCHWAB, E.I. MATTHEWS DESIGN GROUP, INC.
GREEN COVE MULTI-FAMILY RESIDENTIAL CONSTRUCTION DOCUMENTS 2024 - CONSTRUCTION DETAIL DWG. 15 - 2/1/2025 4:05 PM, 0246 SCHWAB, E.I. MATTHEWS DESIGN GROUP, INC.



PUMP SPECIFICATIONS	
PUMPS REQUIRED	2
MANUFACTURER	FLYGT
MODEL NUMBER	3127 SH 3
IMPELLER DIAMETER	5.7500
MOTOR HP REQUIRED	11
SPEED (RPM)	3505
VOLTAGE / PHASE	230 / 3
RUN OUT DESIGN POINT	375 GPM @ 51.69 TDH
MANIFOLD DESIGN POINT	190 GPM @ 90.38 TDH

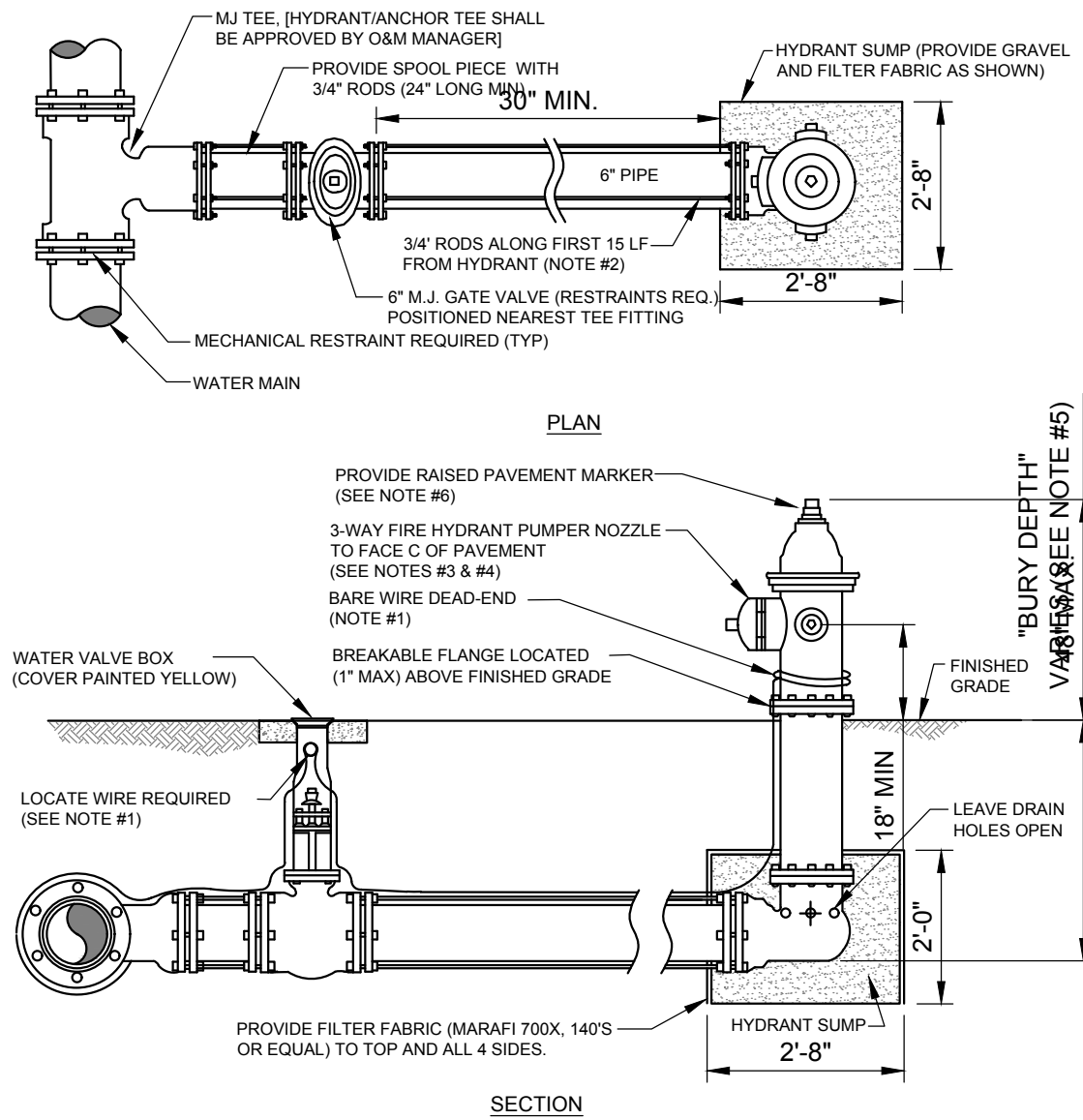
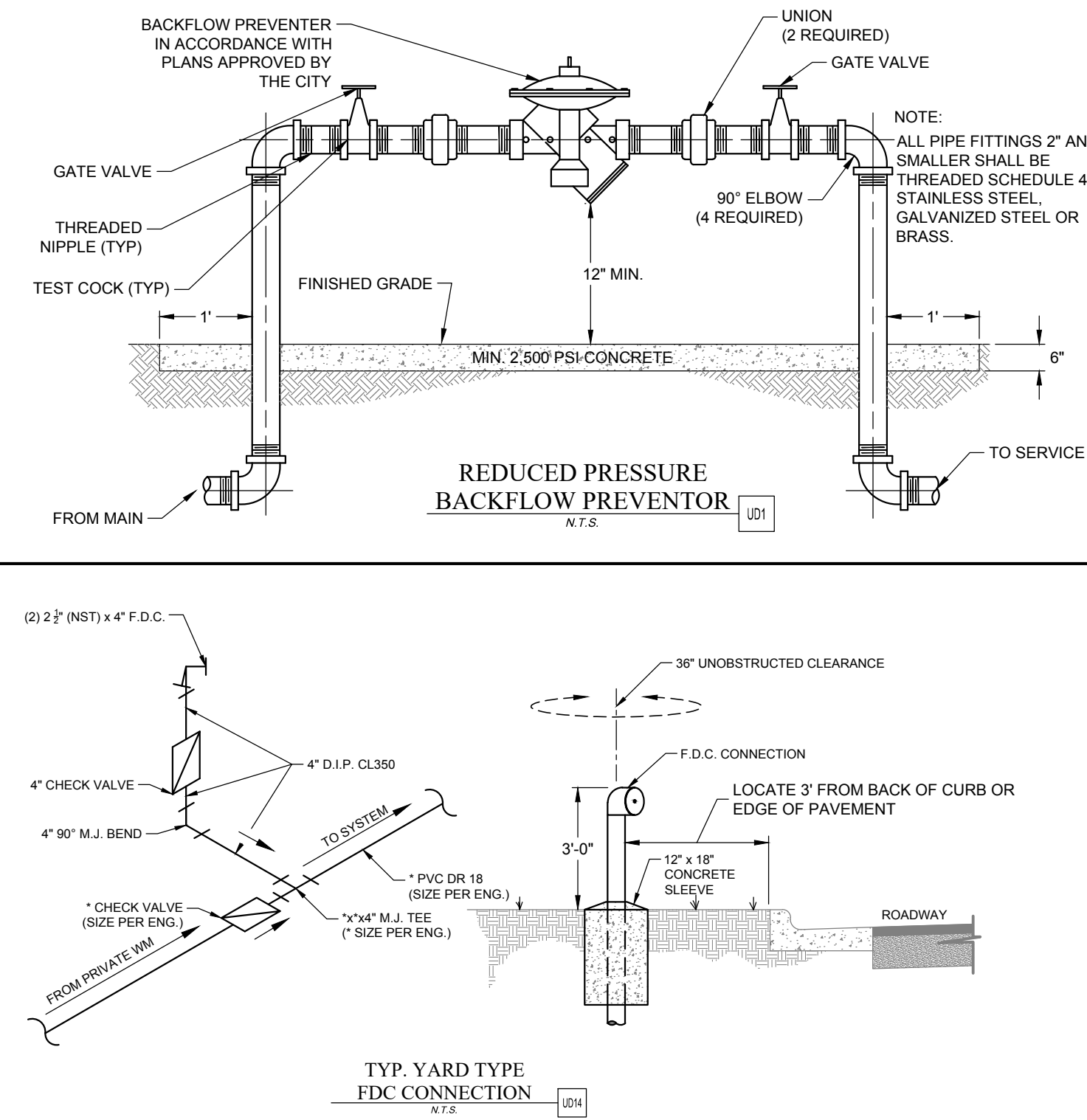
LOCATION	DESCRIPTION	ELEVATION
A	TOP	19.60
B	INFLUENT INV.	10.58
C	ALARM	10.08
D	LAG PUMP ON	9.58
E	LEAD PUMP ON	9.08
F	ALL PUMPS OFF	7.08
G	BOTTOM	5.08

PRIVATE DUPLEX LIFT STATION WITH FIBERGLASS TANK
N.T.S. U01



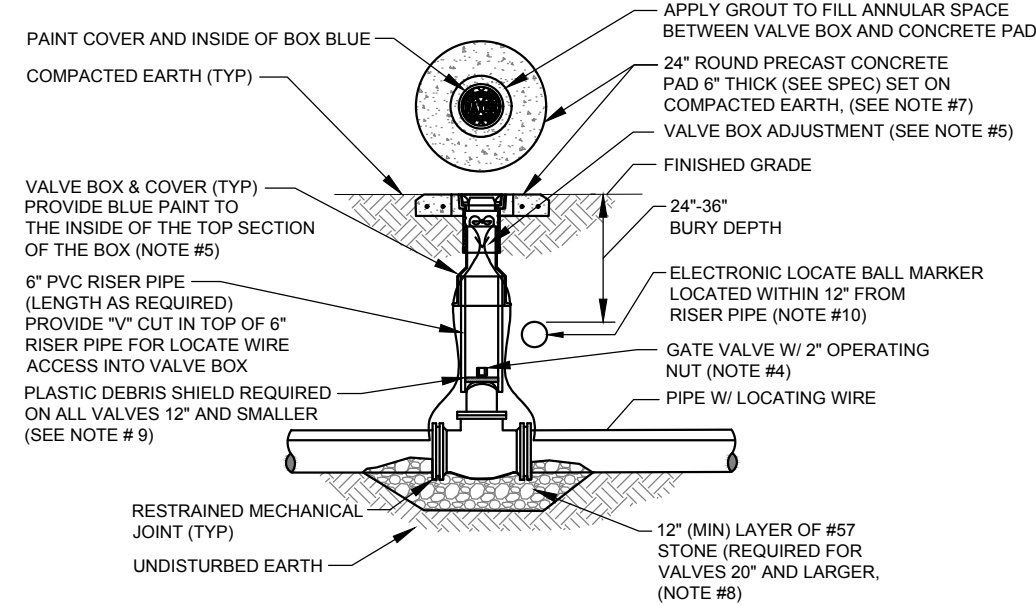
- NOTES
- ALL ABOVE GROUND GATE VALVES SHALL BE RESILIENT SEAT, HAND WHEEL, OUTSIDE STEM & YOKE TYPE.
 - ALL ABOVE GROUND PIPING 3 INCHES IN DIA. & LARGER SHALL BE DUCTILE IRON WITH FLANGE ENDS, PRESSURE CLASS 350. ALL BELOW GROUND PIPING SHALL BE D.I.M.J. WIRESTRAPPING TYPE DEVICES, MEGA-LUG OR APPROVED EQUAL. PIPING SMALLER THAN 3 INCHES SHALL BE BRASS.
 - ALL ASSEMBLIES SHALL BE A MINIMUM OF 12" INCHES ABOVE FINISHED GRADE LEVEL AND HAVE A 6" (MIN.) THICK CONCRETE SLAB USING A MINIMUM OF 2,500 PSI CONCRETE. THE OVERALL SLAB DIMENSIONS WILL BE DETERMINED BY THE ASSEMBLY SIZE.
 - BY-PASS LINE SHALL CONSIST OF A TOTALIZING METER (REGISTERING IN GALLONS) AND REDUCED PRESSURE BACKFLOW ASSEMBLY. (METER & PIPING) SHALL BE BRASS.
 - DEPENDING ON LOCATION, A FENCE MAY BE REQUIRED AROUND ASSEMBLY FOR SAFETY.

DOUBLE CHECK DETECTOR
FIRE FLOW ASSEMBLY
N.T.S. U02



- NOTES
- 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.
 - FIRE HYDRANTS SHALL BE INSTALLED BETWEEN BACK OF CURB AND FACE OF SIDEWALK AND NOT WITHIN SWALEDITCH 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' L.F., AN ADDITIONAL 4" 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' L.F. 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 (EISA 15 PFG OR EQUAL) MAYBE USED IN THIS ASSEMBLY. ALL OTHER JOINTS ALONG THE HYDRANT BRANCH MAIN OUTSIDE OF THE FIRST 15' L.F. SHALL INCLUDE JOINT RESTRAINTS.
 - 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.
 - 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.
 - 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.
 - 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
N.T.S. U03



- NOTES
- 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.
 - LOCATING WIRE IS REQUIRED ON ALL PRESSURE PIPING (SEE DETAIL W-44).
 - A "Y" CUT SHALL BE CARVED IN THE CURB CLOSEST ADJACENT/ASPHALT IF NO CURB) TO ALL BELOW GRADE VALVES. THE "Y" CUT IS TO BE PAINTED BLUE WATERPURPLE RECLAIMED.
 - 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.
 - FOR NEW CONSTRUCTION, THE VALVE BOX SHALL BE ADJUSTED TO MIDRANGE TO ALLOW FOR FUTURE BOX ADJUSTMENTS. ROUTE LOCATE WIRES THRU A "Y" CUT IN THE TOP OF THE 6" PVC RISER PIPE FOR LOCATE WIRE ACCESS INTO VALVE BOX. THE LOCATE WIRES WITH A 3/4" LONG PIG-TAIL AT THE TOP SHALL BE CONNECTED TOGETHER WITH A WIRE NUT.
 - BRASS IDENTIFICATION TAG INDICATING "WATER", VALVE SIZE, DIRECTION AND TURNS TO OPEN & VALVE TYPE. PROVIDE A 2" 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.
 - 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.
 - GRAVEL SHALL BE PROVIDED UNDER ALL VALVES 20" AND LARGER. THE MINIMUM VERTICAL LIMIT OF GRAVEL IS 12" UNDER THE VALVE UP TO THE OVERALL HEIGHT OF THE VALVE.
 - 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 ATC, BOXLOK OR APPROVED EQUAL.
 - ALL VALVES SHALL BE INSTALLED WITH AN ELECTRIC LOCATE MARKER. MARKER SHALL BE 4" DIA. COLOR CODED BALL MARKER (3M-14030R FOR WATER AND 1408XR FOR RECLAIMED WATER).

GATE VALVE INSTALLATION
N.T.S. U04

CONSTRUCTION DETAILS

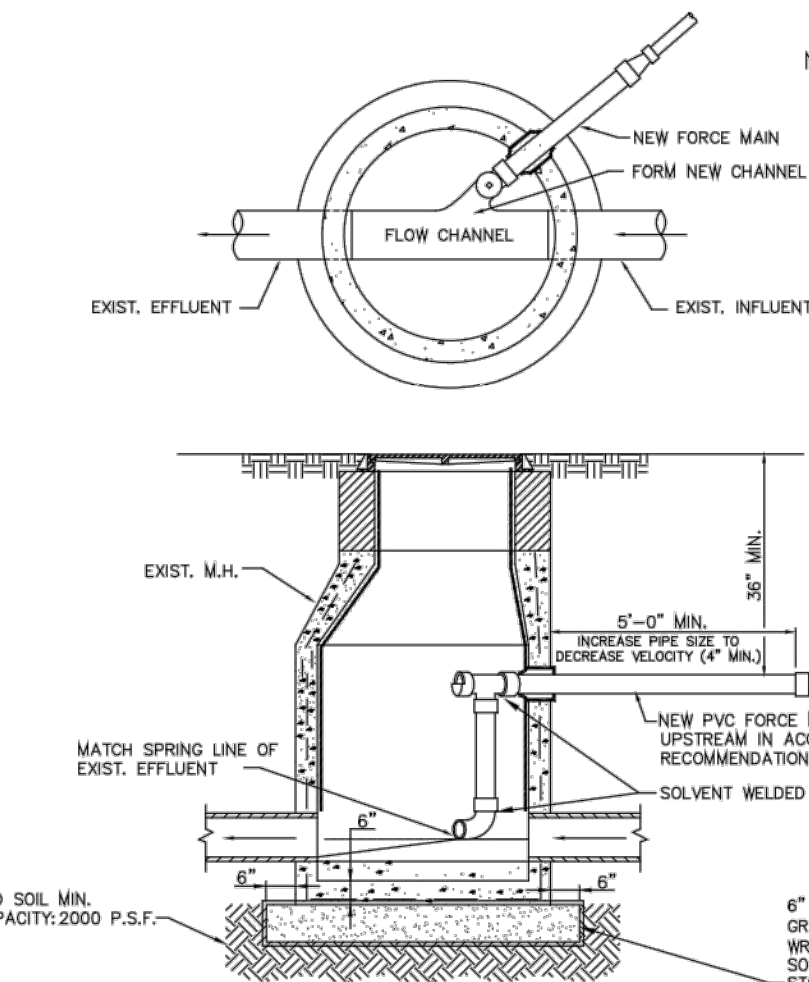
PRESERVEAT GREEN COVE SPRINGS
CITY OF GREEN COVE SPRINGS
PREPARED FOR
PC ACQUISITION LLC

Matthews | **DCCM**
P.O. BOX 3126, 7 WALDO STREET
ST. AUGUSTINE, FL 32084
PHONE: 904.826.1334 • FAX: 904.826.4547
INFO@MDGINC.COM

DESIGN BY		DTS		DATE	
DWG BY	DTS	DTS		NO	
CHK BY	AFR			DESCRIPTION	
DATE	03-12-25				
JOB NO.	22034				

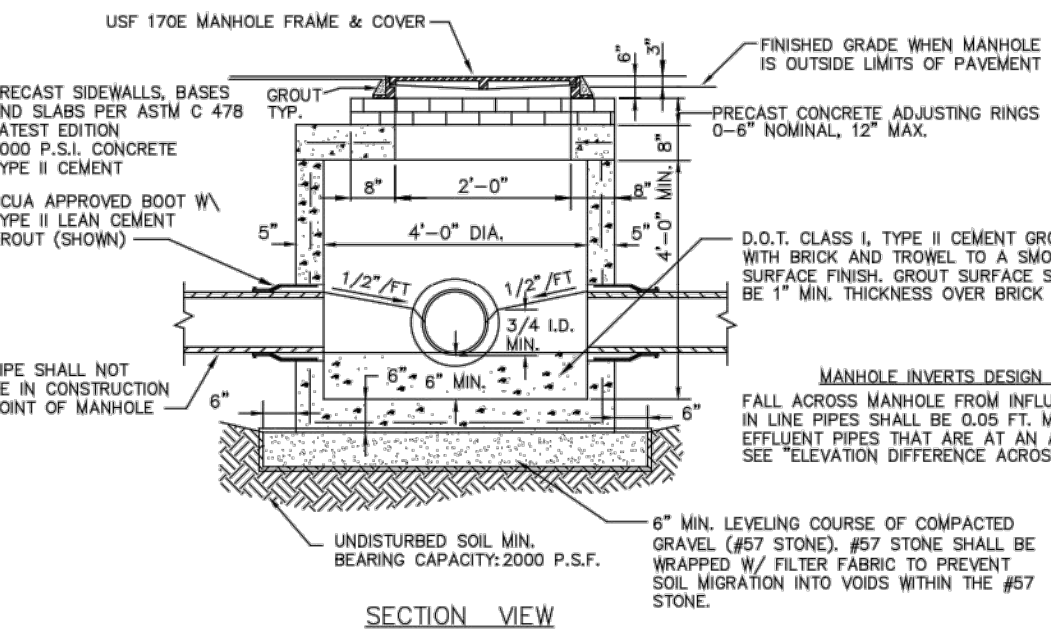
REGISTERED ENGINEER
E. I. MATTHEWS
CAP#5535, FL #7535

M:\CAD Files\Green Cove Springs\8005191\Standard Utility Details\11-01-2017\SEWSTANDDETAILS.dwg, 11/2017 12:00:13 PM

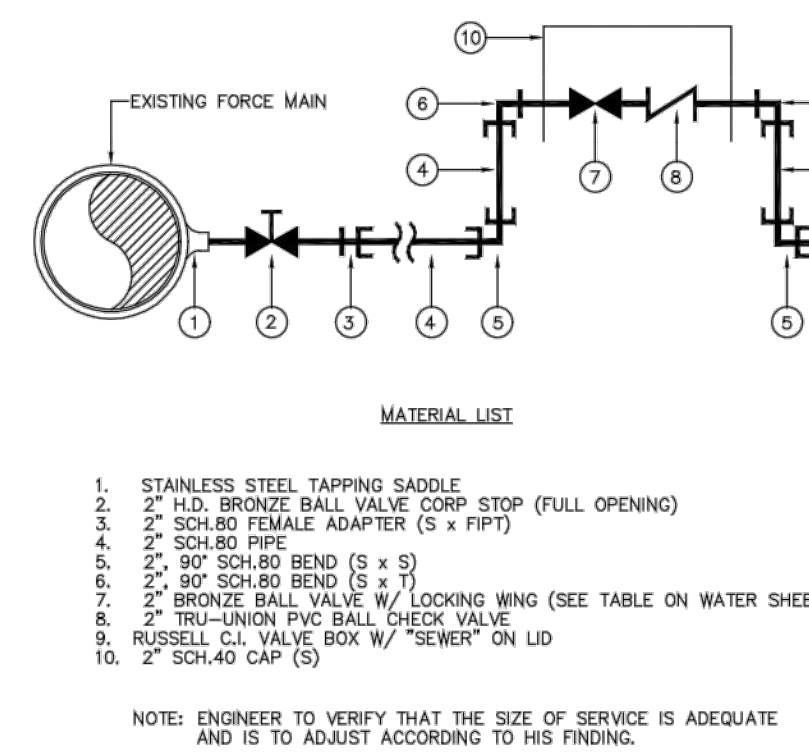


TYP. FORCE MAIN CONNECTION TO MANHOLE

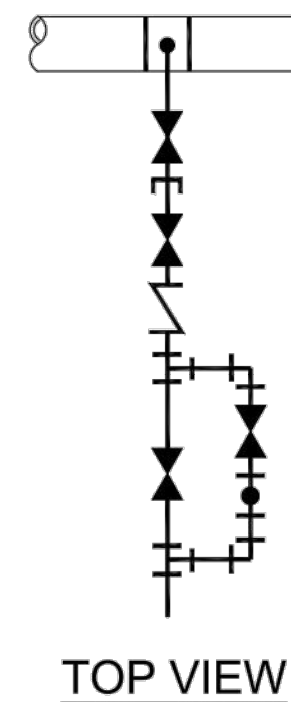
- NOTE: 1. THIS MANHOLE AND THE NEXT TWO MANHOLES DOWNSTREAM (AS REQUIRED BY UTILITY) ARE TO HAVE POLYETHYLENE LINER AS MANUFACTURED BY STANDARD PRECAST CO. (AGRI SURE CRP) OR APPROVED EQUAL.
2. IF CONNECTION IS BEING MADE TO AN EXISTING MANHOLE, THAT MANHOLE AND THE NEXT TWO MANHOLES DOWNSTREAM (AS REQUIRED BY UTILITY), SHALL BE LINED WITH "SPRETRASHED" OR APPROVED EQUAL.
3. SIZE OF DROP PIPE CONNECTION TO MANHOLE SHALL BE DESIGNED BY THE PROJECT ENGINEER. MINIMUM SIZE SHALL BE 4\"/>



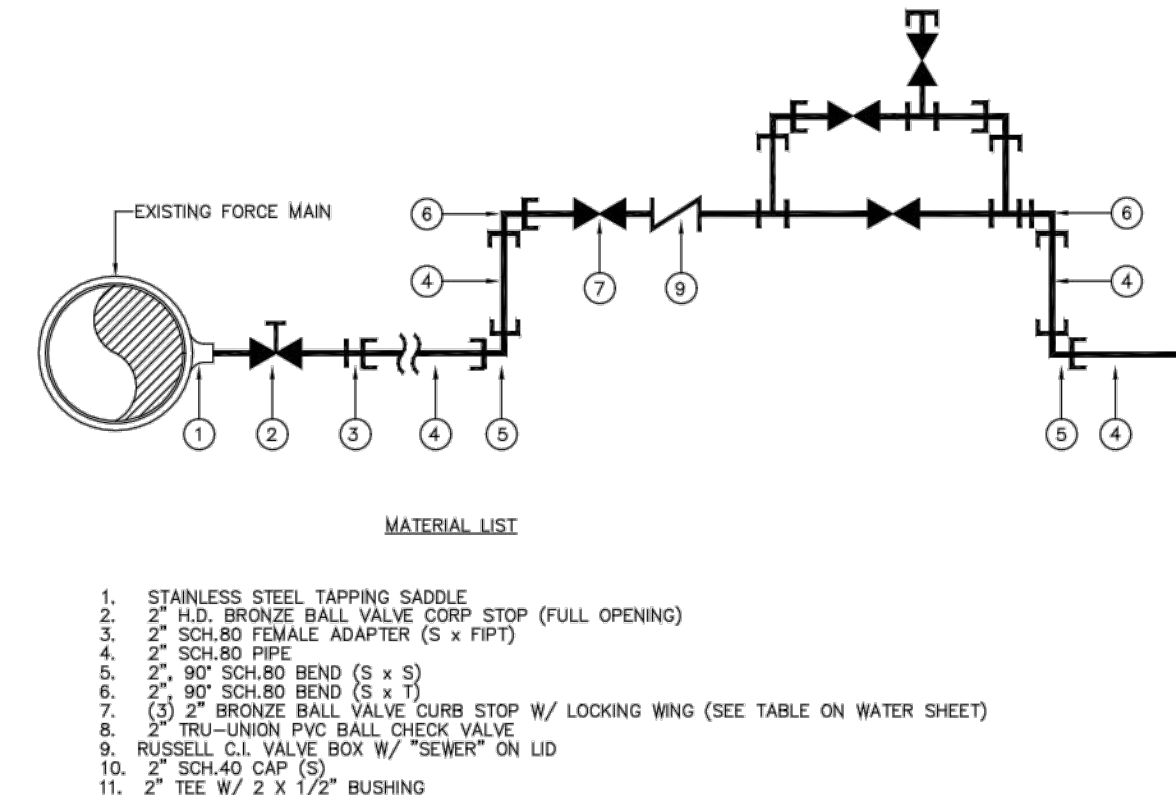
SHALLOW SANITARY SEWER MANHOLE



2\"/>

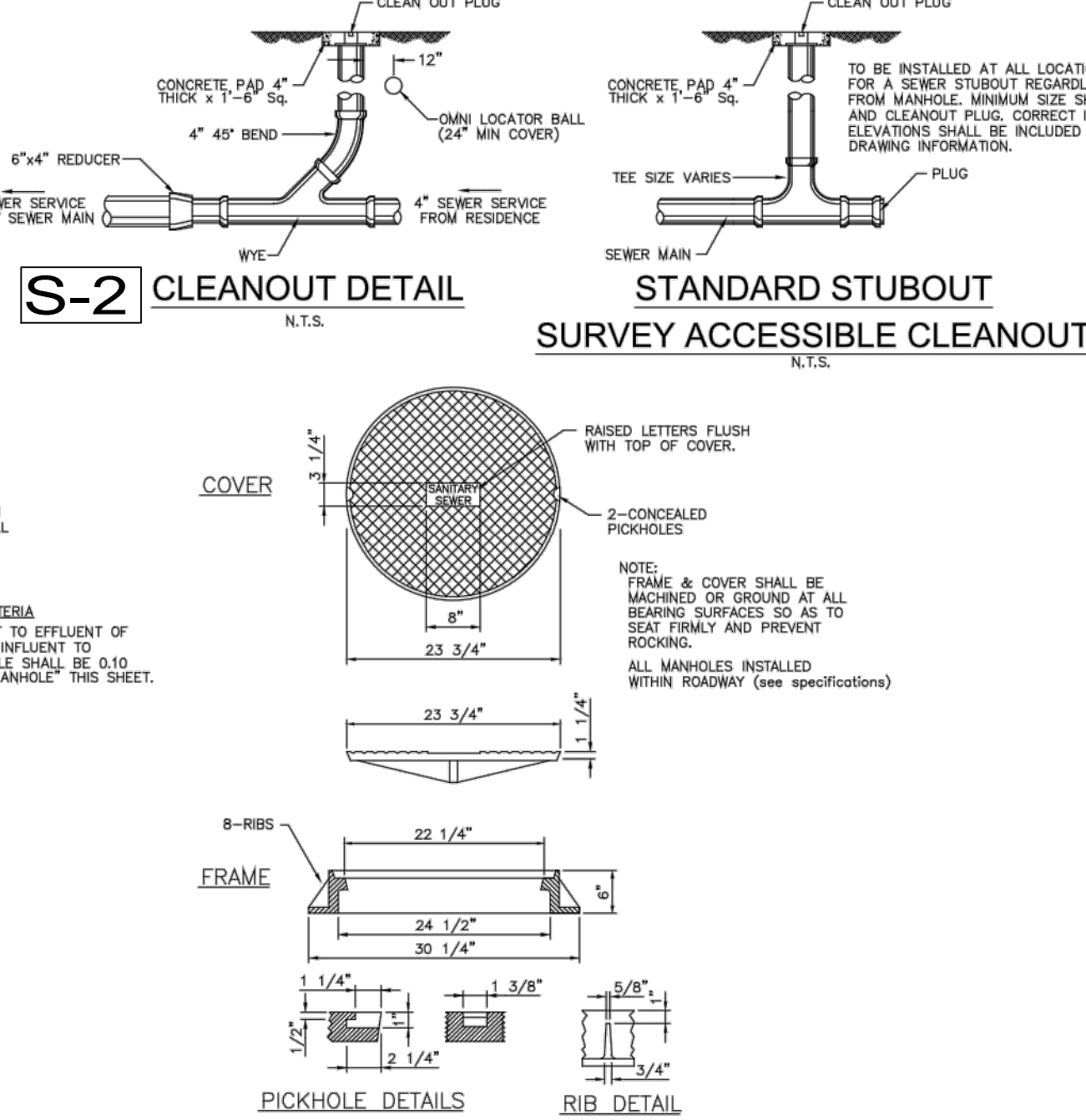


TOP VIEW



" SEWAGE FORCE MAIN MANIFOLD SERVICE CONNECTION / WITH PRESSURE GAUGE FITTING / FOR LOW PRESSURE RECEIVING SYSTEMS FOR CREATING ARTIFICIAL HEAD PRESSURE

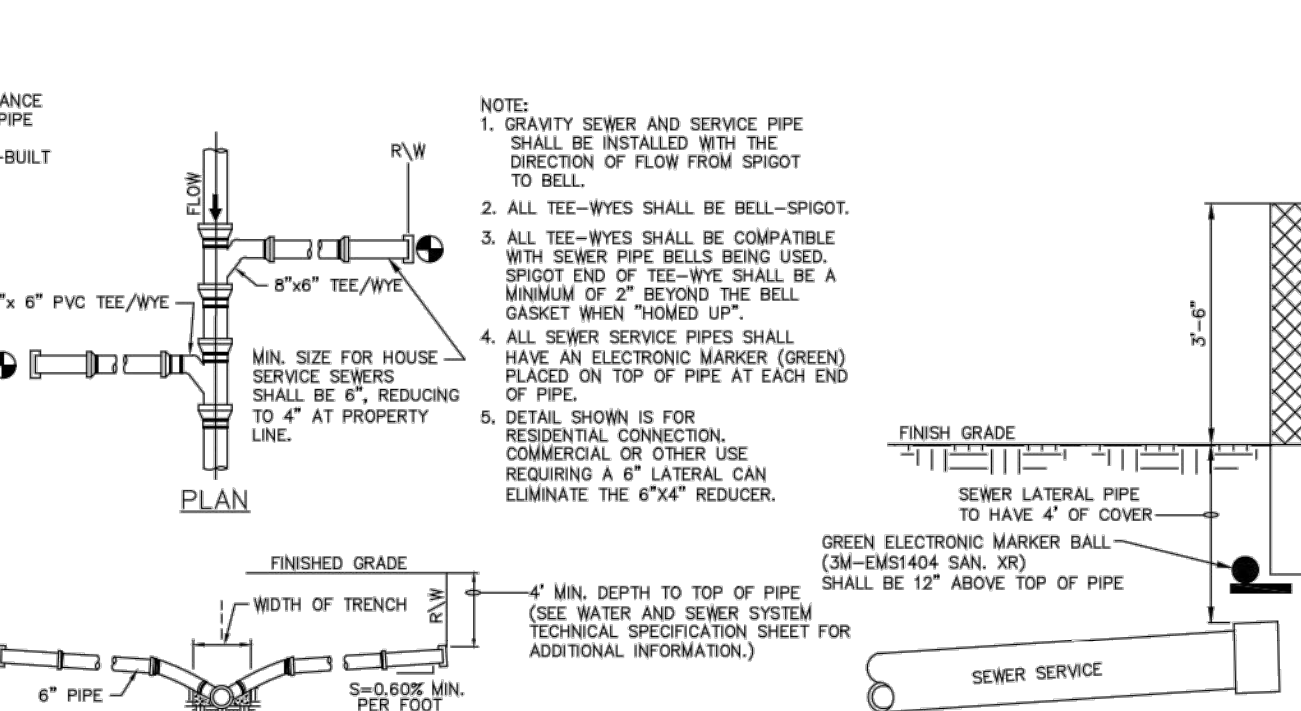
S-1 SANITARY SEWER MANHOLE



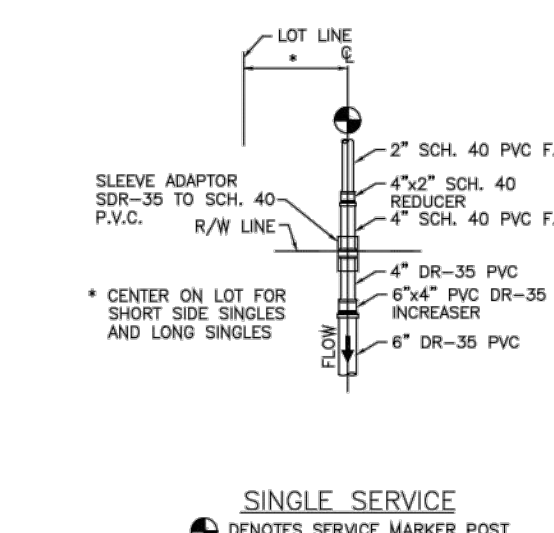
SANITARY SEWER MANHOLE FRAME & COVER

CONCRETE CAP FOR SEWER PIPES

STORM CONFLICT MANHOLE

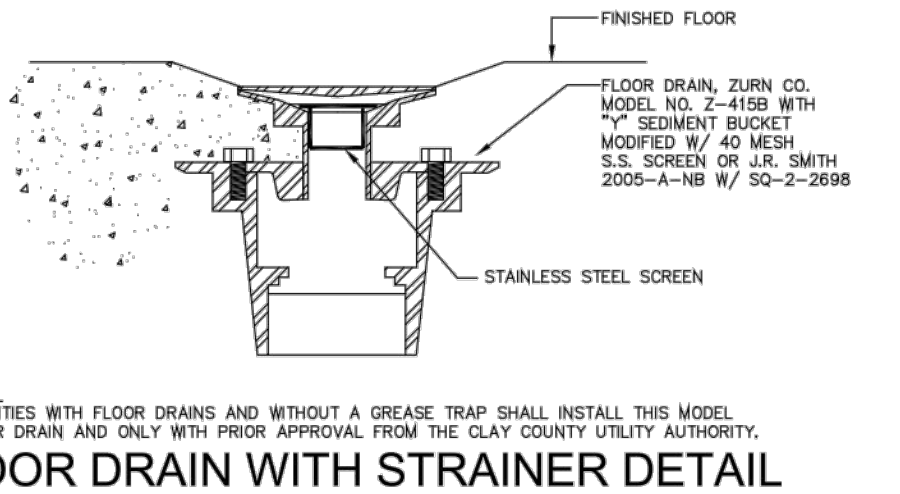


STANDARD SINGLE SEWER SERVICE LATERALS

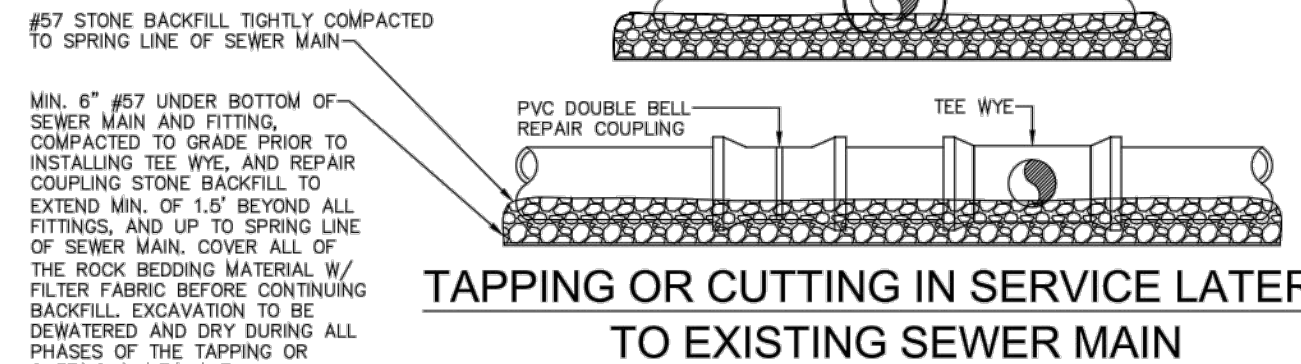


GRINDER PUMP STATION FORCE MAIN CONNECTION TO SINGLE GRAVITY SERVICE

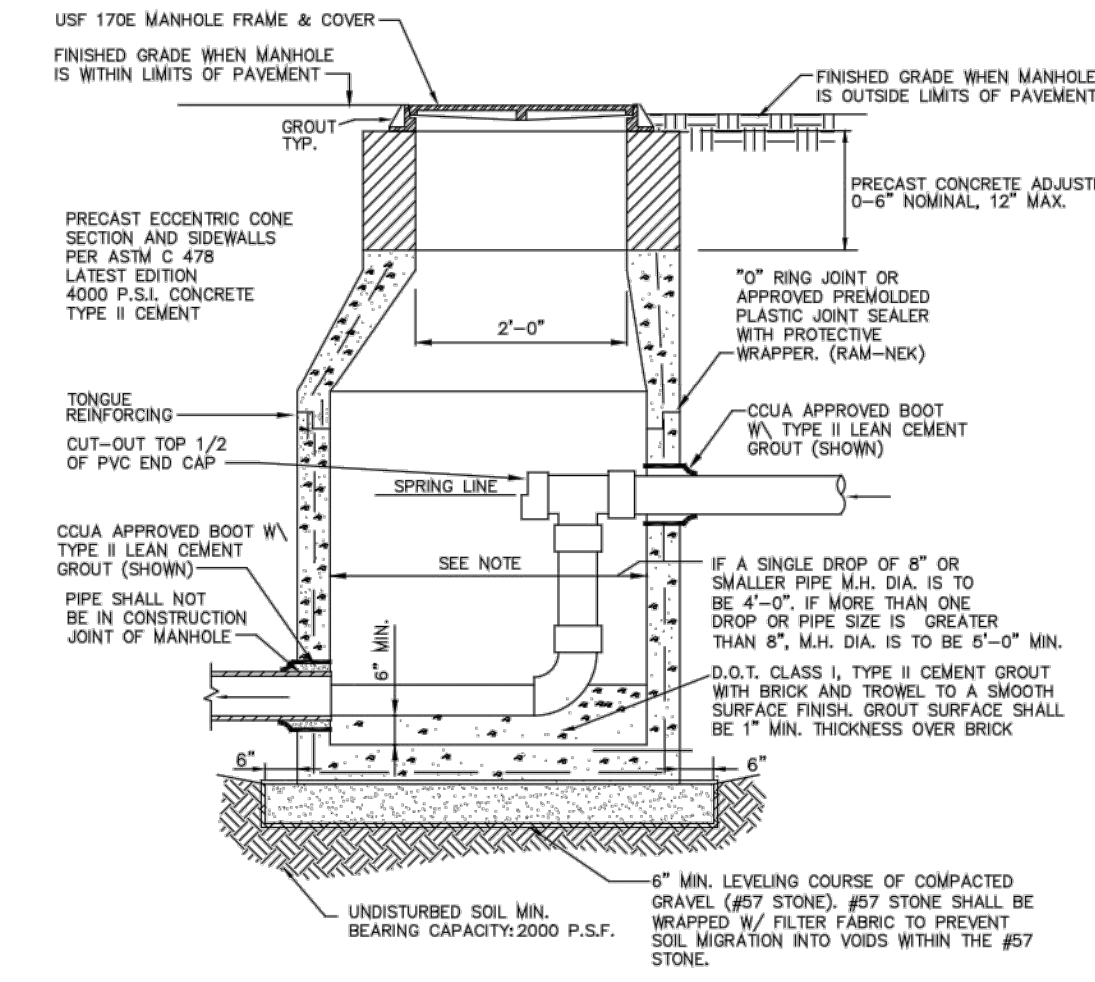
ELEVATION DIFFERENCE ACROSS MANHOLE



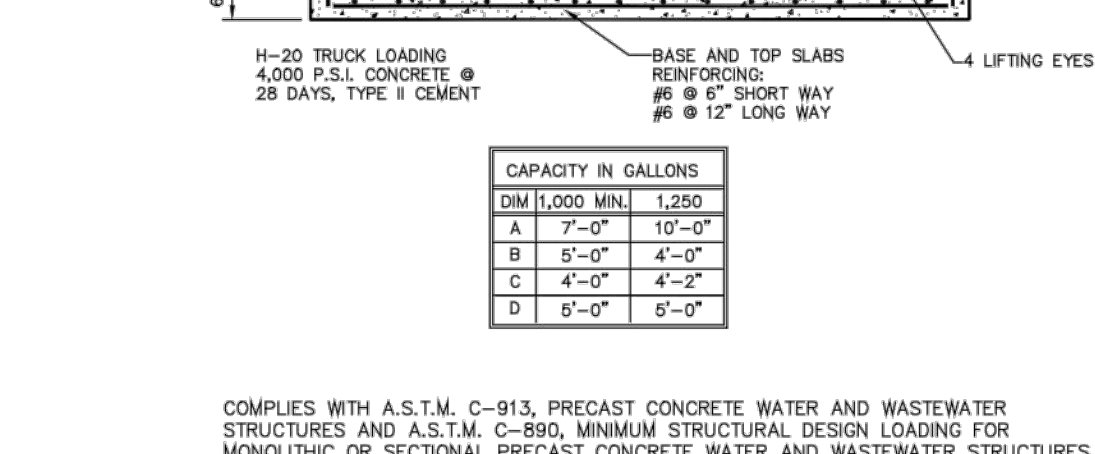
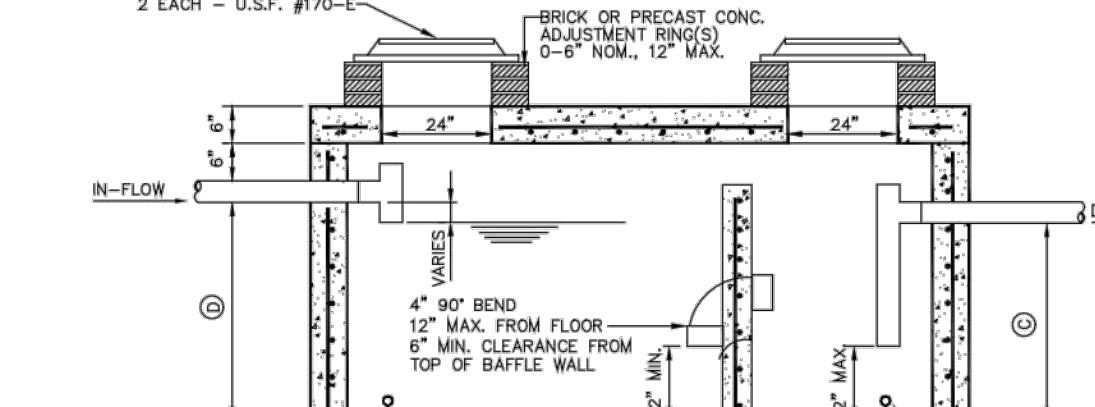
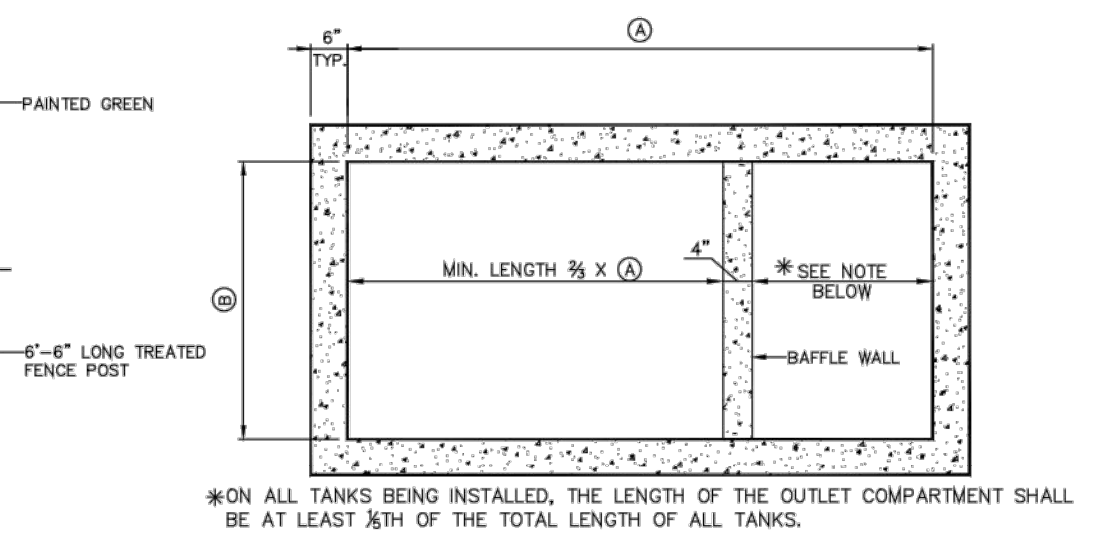
FLOOR DRAIN WITH STRAINER DETAIL



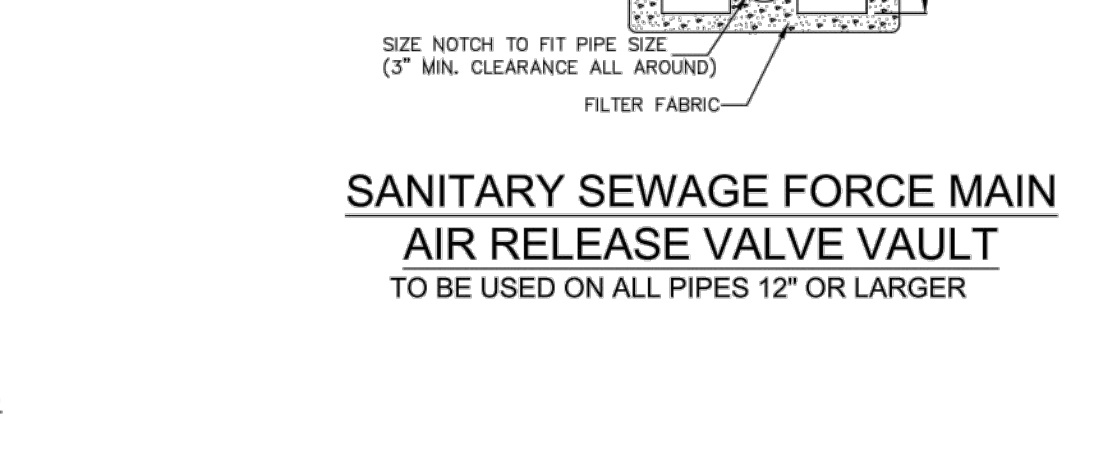
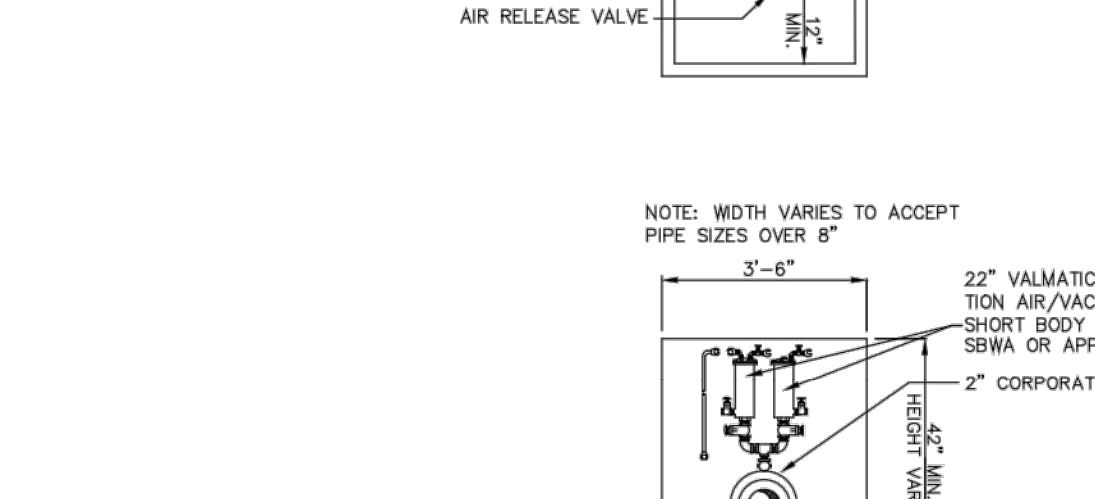
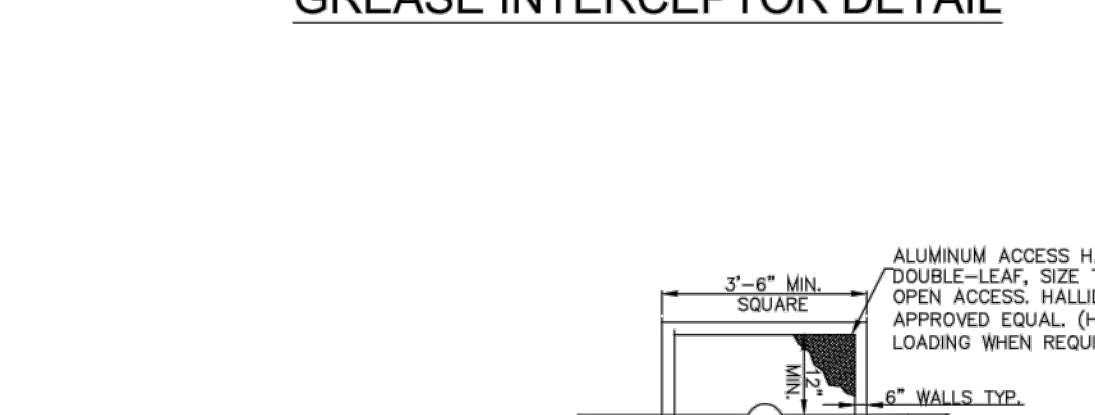
TAPPING OR CUTTING IN SERVICE LATERAL TO EXISTING SEWER MAIN



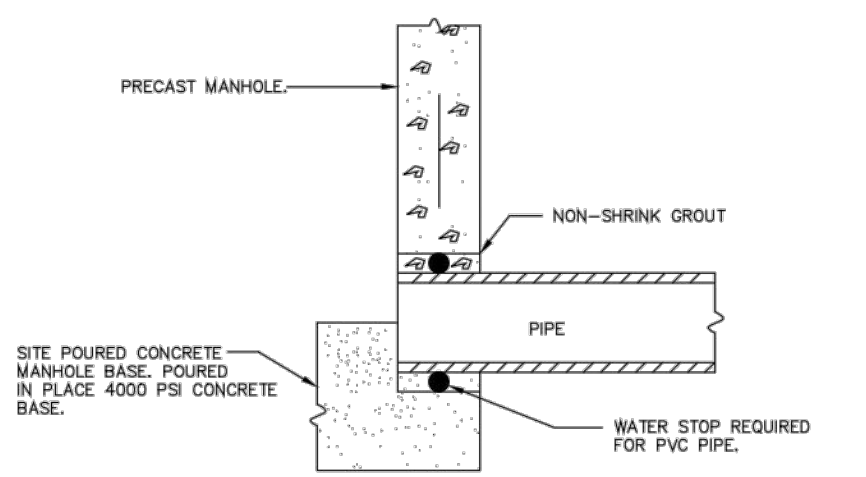
TYPICAL GRAVITY SEWER DROP PIPE CONNECTION TO MANHOLE



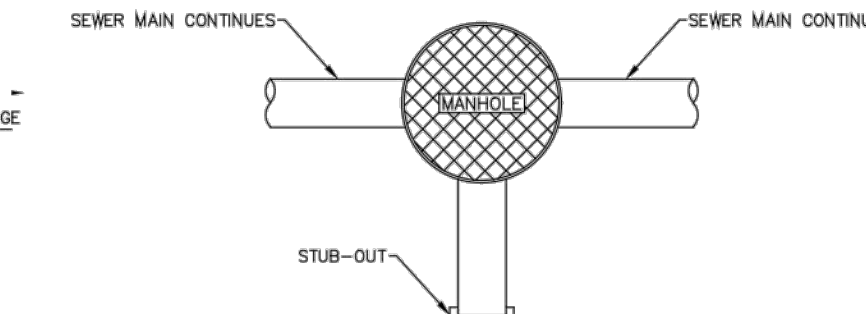
GREASE INTERCEPTOR DETAIL



SADDLE MANHOLE DETAIL THIS DETAIL IS ONLY TO BE USED WITH SPECIFIC APPROVAL BY CITY OF GCS.

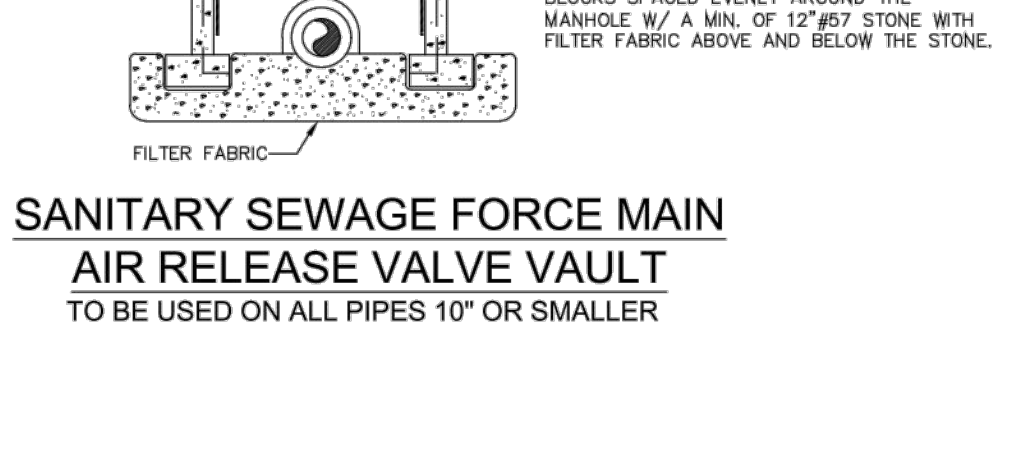
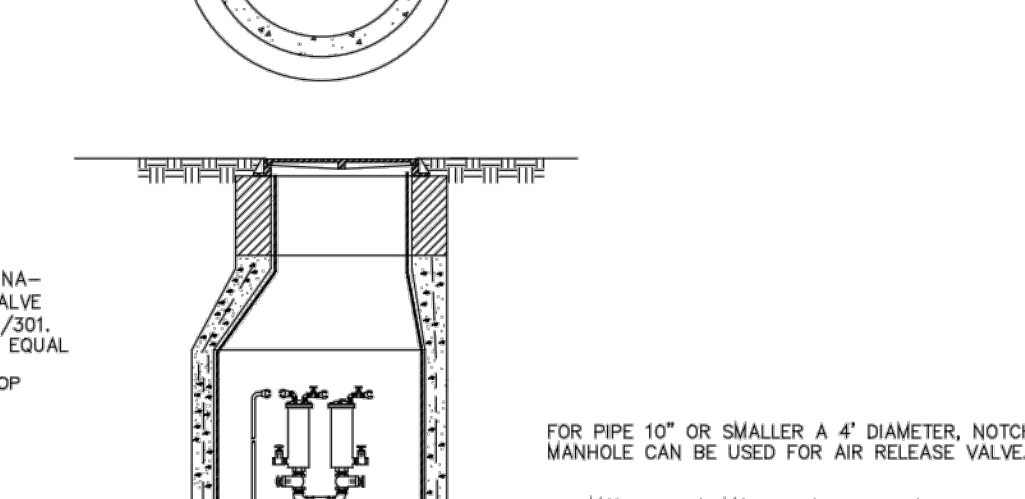
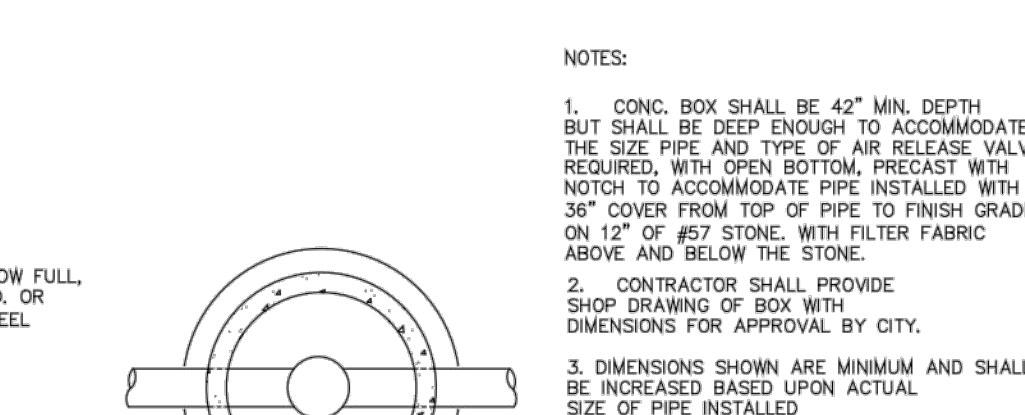


SADDLE MANHOLE DETAIL SECTION

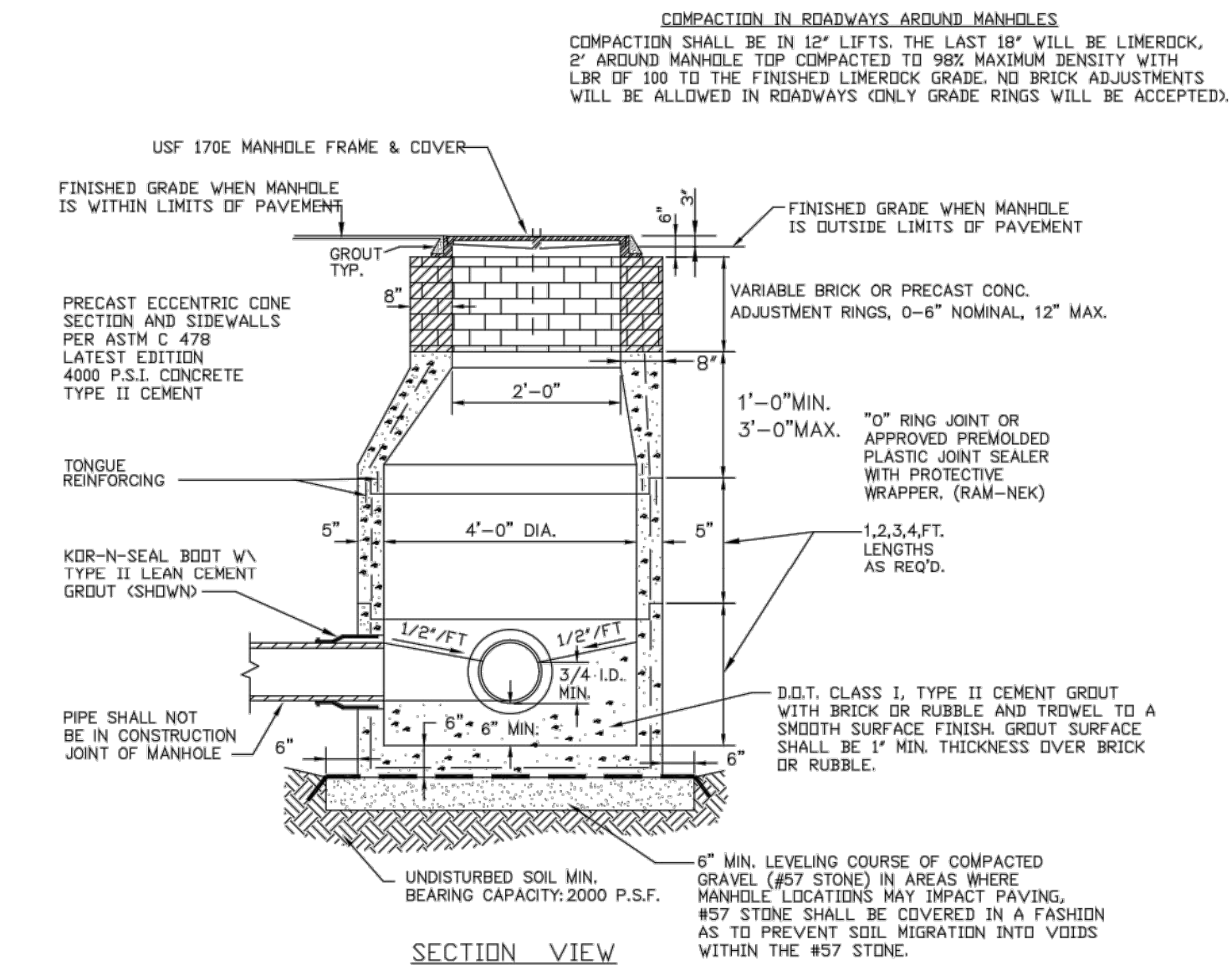


PROCEDURES FOR CONNECTING TO A GRAVITY STUB

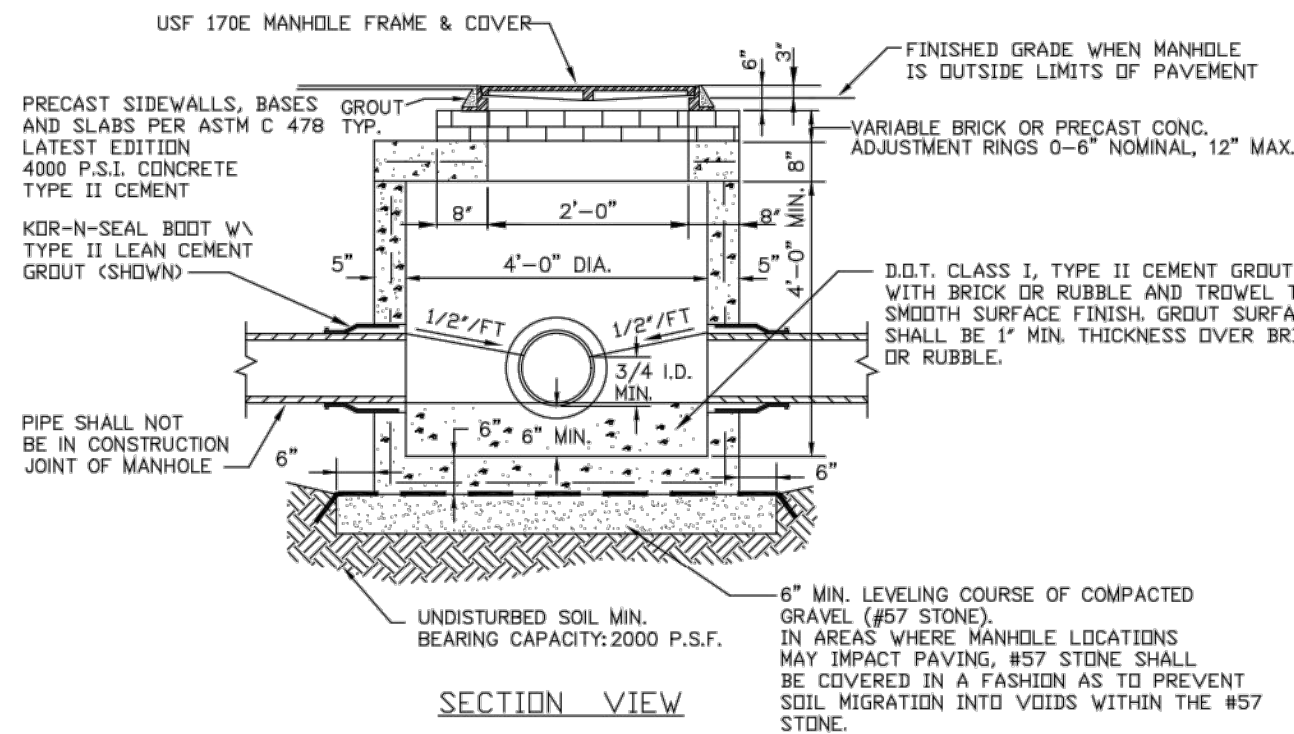
- NOTE: BEFORE CONNECTING TO ANY GRAVITY STUB, EXCAVATE AND SHOOT THE ELEVATION OF THE STUB INVERT AND THE ELEVATION OF THE INVERT OF THE SAME PIPE COMING OUT OF THE IMMEDIATE DOWNSTREAM MANHOLE. MEASURE THE DISTANCE FROM THE MANHOLE TO THE STUB, CALCULATE THE PIPE GRADE. IF THE GRADE ON THE PIPE IS LESS THAN PLAN DESIGN THEN CONTACT THE C.G.C.S. PUBLIC WORKS DEPARTMENT AND THE PROJECT ENGINEER BEFORE PROCEEDING FURTHER. THE PROJECT ENGINEER AND THE C.G.C.S. PUBLIC WORKS DEPARTMENT WILL MAKE THE DECISION ON HOW TO RESOLVE THE DISCREPANCY BEFORE THE CONTRACTOR CAN PROCEED FURTHER.
- NO WORK WILL BE ALLOWED ON A GRAVITY LINE UPSTREAM OF THE CONNECTION POINT TO THE C.G.C.S. SYSTEM WITHOUT PRIOR APPROVAL OF THE C.G.C.S. PUBLIC WORKS DEPARTMENT..



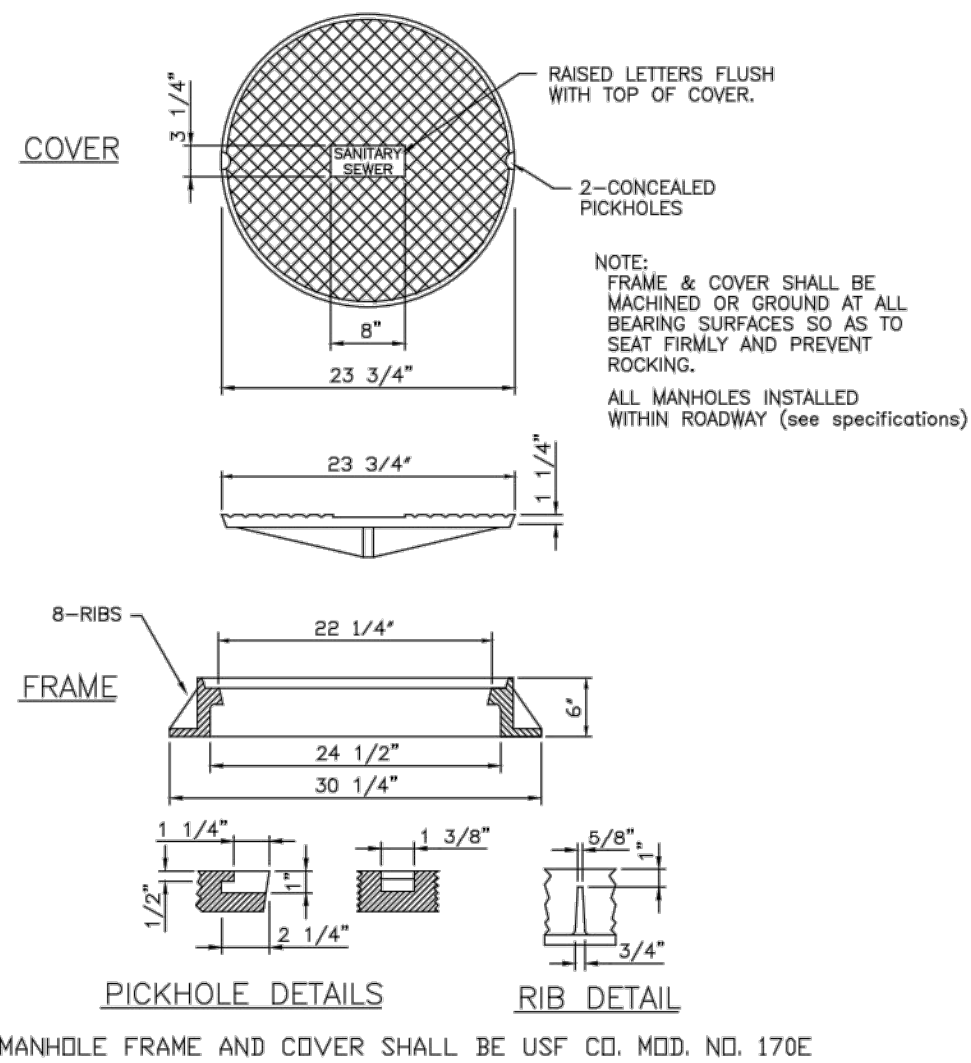
M:\CAD Files\Green Cove Springs\890519\Standard Utility Details\11-01-2017\SEWDETAILS.dwg, 11/7/2017 1:16:02 PM



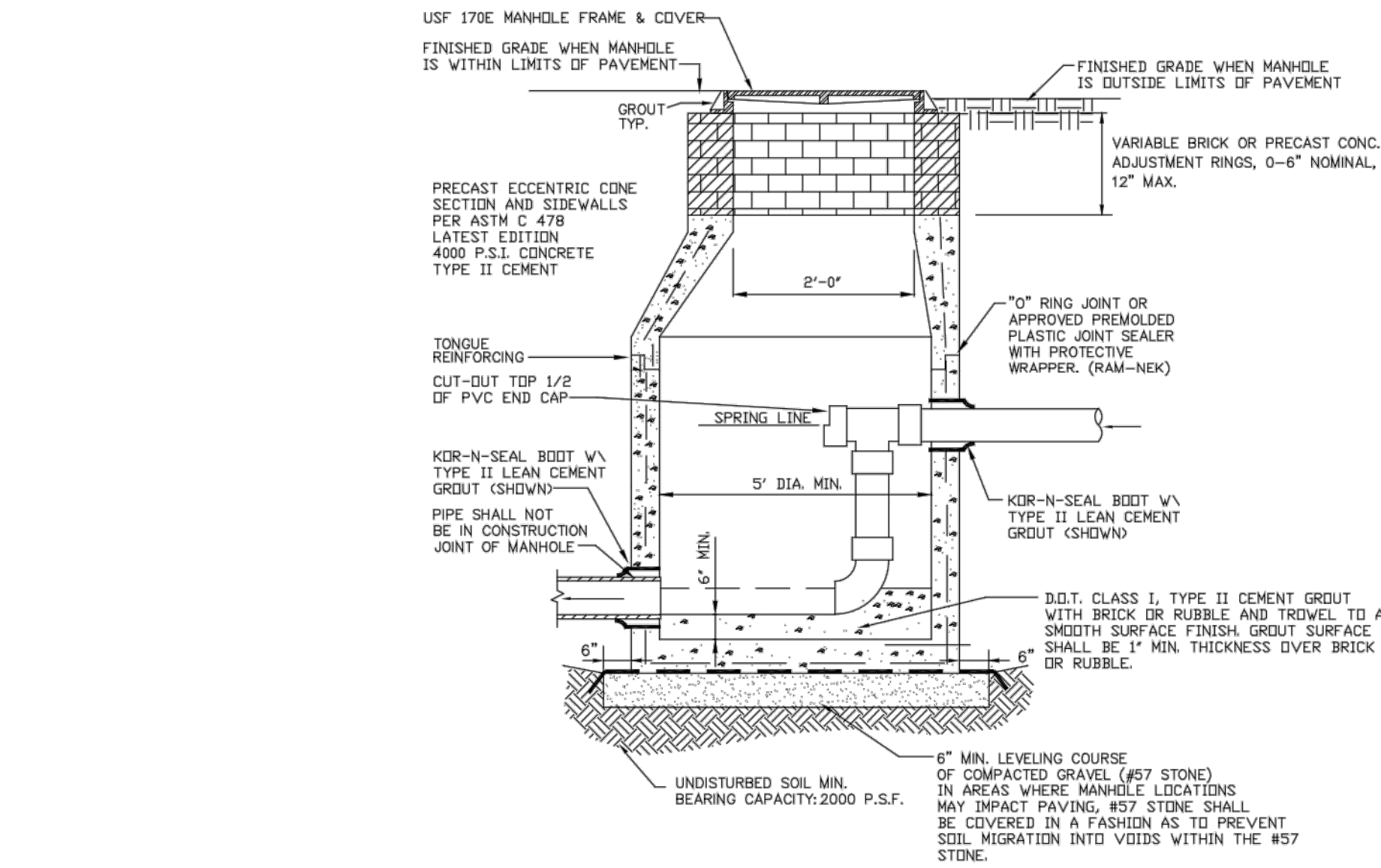
SANITARY SEWER MANHOLE



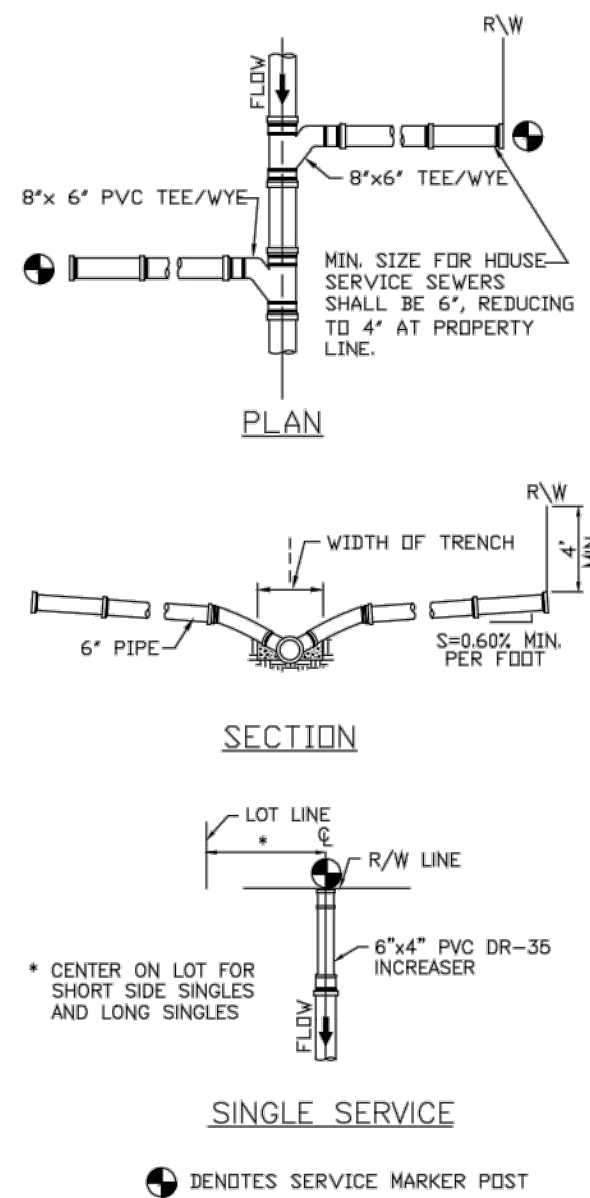
SHALLOW SANITARY SEWER MANHOLE



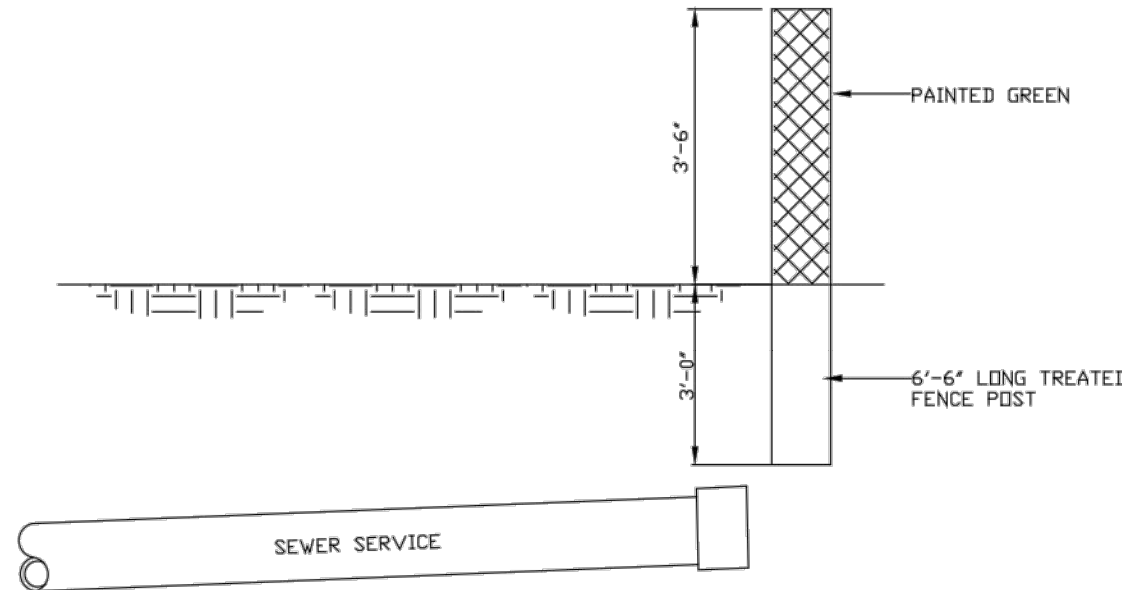
SANITARY SEWER MANHOLE FRAME + COVER



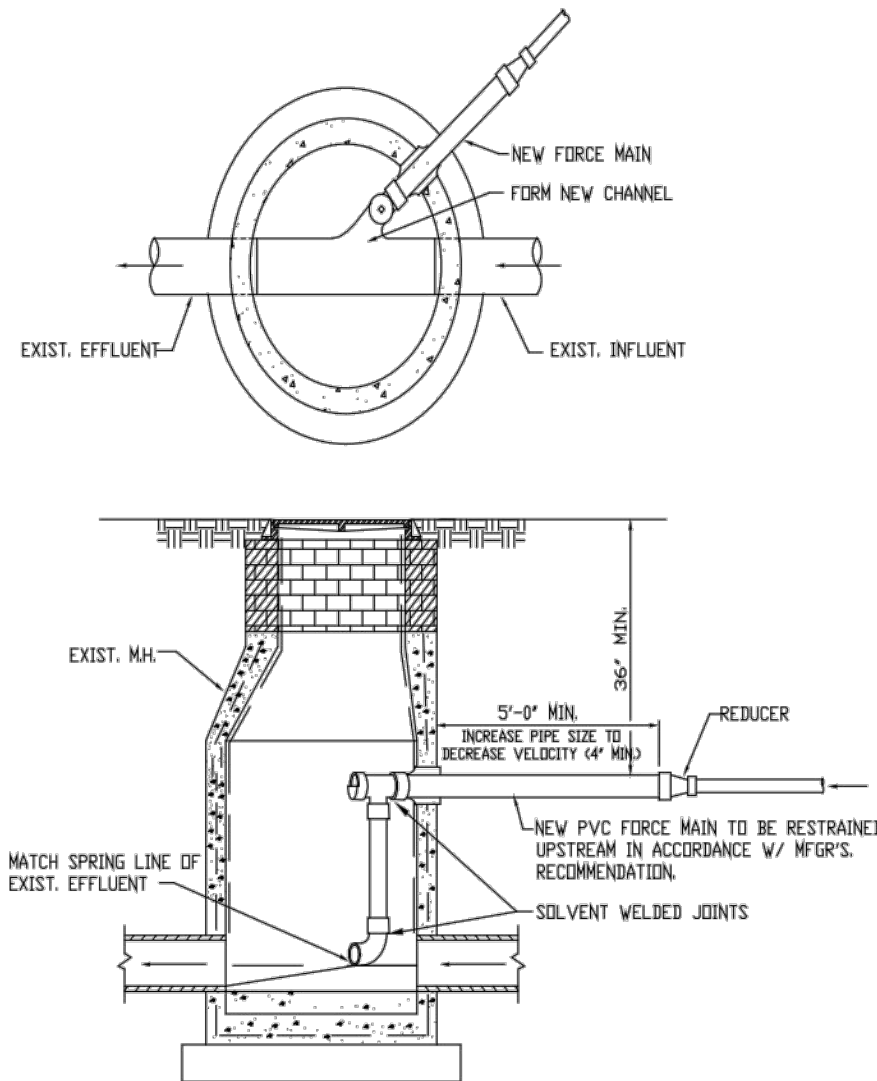
TYPICAL GRAVITY SEWER DROP PIPE CONNECTION TO MANHOLE



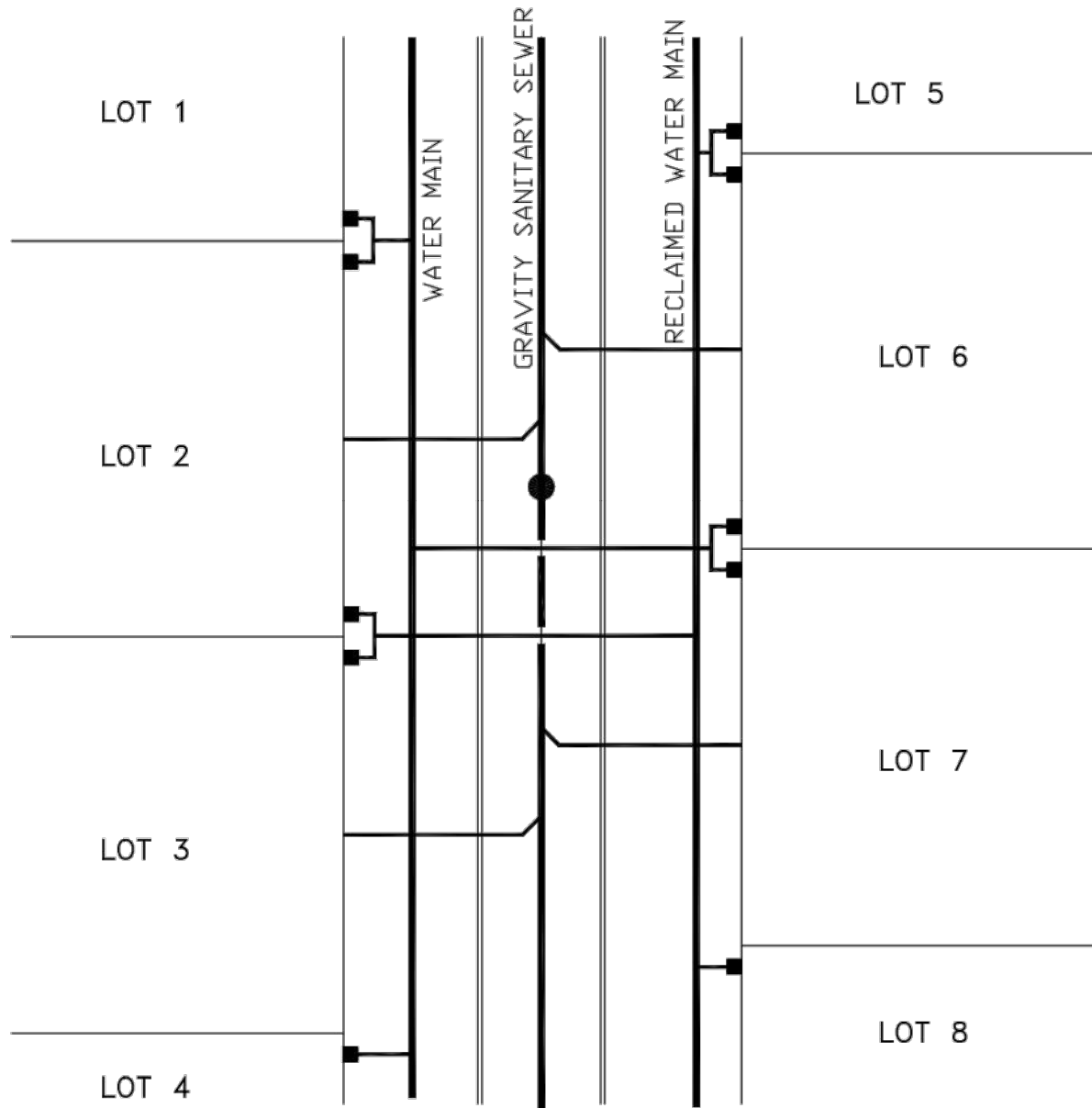
STANDARD SINGLE SEWER SERVICE LATERALS



SEWER SERVICE MARKER POST

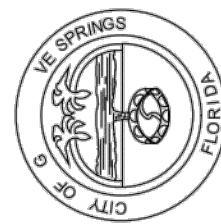


TYP. FORCE MAIN CONNECTION TO MANHOLE



TYPICAL WATER AND SEWER SERVICE LOCATION PLAN

- 1.) ALL WATER AND REUSE DOUBLE SERVICES ON PROPERTY LINE.
- 2.) ANY SINGLE WATER OR REUSE SERVICE LINES ON LOT LINE.
- 3.) ALL SEWER SERVICES ARE TO CENTER OF LOTS.



ACAD FILE NAME
SERVICES.DWG
SHEET NO.

GRAVITY SEWER SERVICE DETAILS

CITY OF
GREEN COVE SPRINGS
321 WALNUT STREET
GREEN COVE SPRINGS, FLORIDA 32043

REVISION	DESCRIPTION
1	GENERAL UPDATES

DATE	BY
1 FEB 2016	SS

NO	DATE
1	1 FEB 2016

DRWN	CHKD	APRV	DATE

CONTRACTOR'S REQUIREMENTS

OWNER'S REQUIREMENTS		CONTRACTOR'S REQUIREMENTS	
<div><div>SITE DESCRIPTION</div><div>PROJECT NAME</div><div>LOCATION</div><div>LATITUDE</div><div>LONGITUDE</div><div>OWNER NAME AND ADDRESS</div><div>DESCRIPTION</div><div>SOL DISTURBING ACTIVITIES WILL INCLUDE</div><div>RUNOFF CURVE NUMBERS</div><div>EXISTING SOILS TYPE/ ESTIMATED SHWLS</div><div>SITE MAPS</div><div>SITE AREA</div><div>NAME OF RECEIVING WATERS</div><div>OUTFALL 1</div><div>OUTFALL 2</div><div>CONTROLS</div></div>	<div><div>GENERAL</div><div>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 FLOCCULENTS TO THE RETENTION SYSTEM PRIOR TO PLACING THE SYSTEM INTO OPERATION.</div><div>SEQUENCE OF MAJOR ACTIVITIES</div><div>THE ORDER OF ACTIVITIES WILL BE AS FOLLOWS:</div><div>TIMING OF CONTROLS/MEASURES</div><div>CONTROLS</div></div>	<div><div>CONSTRUCTED ON UNDISTURBED SOIL AND THE AREA BELOW THE LEVEL LIP IS STABILIZED. THE WATER SHOULD NOT BE ALLOWED TO RECONCENTRATE AFTER RELEASE. LEVEL SPREADER SHALL BE CONSTRUCTED IN ACCORDANCE TO THE DETAILS.</div><div>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.</div><div>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.</div><div>7. INLET PROTECTION: INLETS AND CATCH BASINS WHICH DISCHARGE DIRECTLY OFF-SITE SHALL BE PROTECTED FROM SEDIMENT-LOADED STORM RUNOFF UNTIL THE COMPLETION OF ALL CONSTRUCTION OPERATIONS THAT MAY CONTRIBUTE SEDIMENT TO THE INLET.</div><div>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 TEMPORARY DIVERSION SWALES/DIKES AND RESEED SOON AS REQUIRED</div><div>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.</div><div>10. TEMPORARY GRASSING: THE SEEDED OR SEEDED AND MULCHED AREA(S) SHALL BE ROLLED AND WATERED OR HYDRO MULCHED OR OTHER SUITABLE METHODS IF REQUIRED TO ASSURE OPTIMUM GROWING CONDITIONS FOR THE ESTABLISHMENT OF A GOOD GRASS COVER. TEMPORARY GRASSING SHALL BE THE SAME MIX & AMOUNT REQUIRED FOR PERMANENT GRASSING IN THE CONTRACT SPECIFICATIONS.</div><div>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.</div><div>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.</div><div>13. PERMANENT EROSION CONTROL: THE EROSION CONTROL FACILITIES OF THE PROJECT SHOULD BE DESIGNED TO MINIMIZE THE IMPACT ON THE OFFSITE FACILITIES.</div><div>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 SODED.</div><div>15. TEMPORARY FLOATING TURBIDITY BARRIER: FLOATING TURBIDITY BARRIER MAY BE USED IN ALL PERMANENT BOARDS OF WATER REGARDLESS OF WATER DEPTH. FILTER CURTAIN SHALL REACH THE BOTTOM UP TO DEPTHS OF 10 FEET.</div><div>STRUCTURAL PRACTICES</div></div>	<div><div>HAZARDOUS PRODUCTS</div><div>HAZARDOUS PRODUCTS ARE USED TO REDUCE THE RISKS ASSOCIATED WITH HAZARDOUS MATERIALS.</div><div>PRODUCTS WILL BE KEPT IN ORIGINAL CONTAINERS UNLESS THEY ARE NOT RESEALABLE.</div><div>ORIGINAL LABELS AND MATERIAL SAFETY DATA WILL BE RETAINED; THEY CONTAIN IMPORTANT PRODUCT INFORMATION.</div><div>IF SURPLUS PRODUCT MUST BE DISPOSED OF, MANUFACTURER'S OR LOCAL AND STATE RECOMMENDED METHODS FOR PROPER DISPOSAL WILL BE FOLLOWED.</div><div>PRODUCT SPECIFIC PRACTICES</div><div>THE FOLLOWING PRODUCT SPECIFIC PRACTICES WILL BE FOLLOWED ONSITE:</div><div>PETROLEUM PRODUCTS</div><div>FERTILIZERS</div><div>PAINTS</div><div>CONCRETE TRUCKS</div><div>SPILL CONTROL PRACTICES</div><div>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.</div><div>MATERIALS & 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, SAND/SLUT, AND PLASTIC AND METAL TRASH CONTAINERS SPECIFICALLY FOR THIS PURPOSE.</div><div>ALL SPILLS WILL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY.</div><div>THE SPILL AREA WILL BE KEPT WELL VENTILATED AND PERSONNEL WILL WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT INJURY FROM CONTACT WITH A HAZARDOUS SUBSTANCE.</div><div>SPILL OF TOXIC OR HAZARDOUS MATERIAL WILL BE REPORTED TO THE APPROPRIATE STATE OR LOCAL GOVERNMENT AGENCY, REGARDLESS OF THE SIZE OF THE SPILL.</div><div>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.</div><div>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.</div><div>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.</div><div>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.</div><div>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.</div><div>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.</div><div>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.</div><div>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.</div><div>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.</div><div>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.</div><div>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.</div><div>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.</div><div>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.</div><div>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.</div><div>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.</div><div>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.</div><div>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.</div><div>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.</div><div>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.</div><div>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.</div><div>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.</div><div>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.</div><div>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.</div><div>THE SITE SUPERINTENDENT RESPONSIBLE FOR THE DAY-TO-DAY SITE OPERATIONS</div></div>

<https://www.epa.gov/npdes/construction-general-permit-resources-tools-and-templates#inspection>