



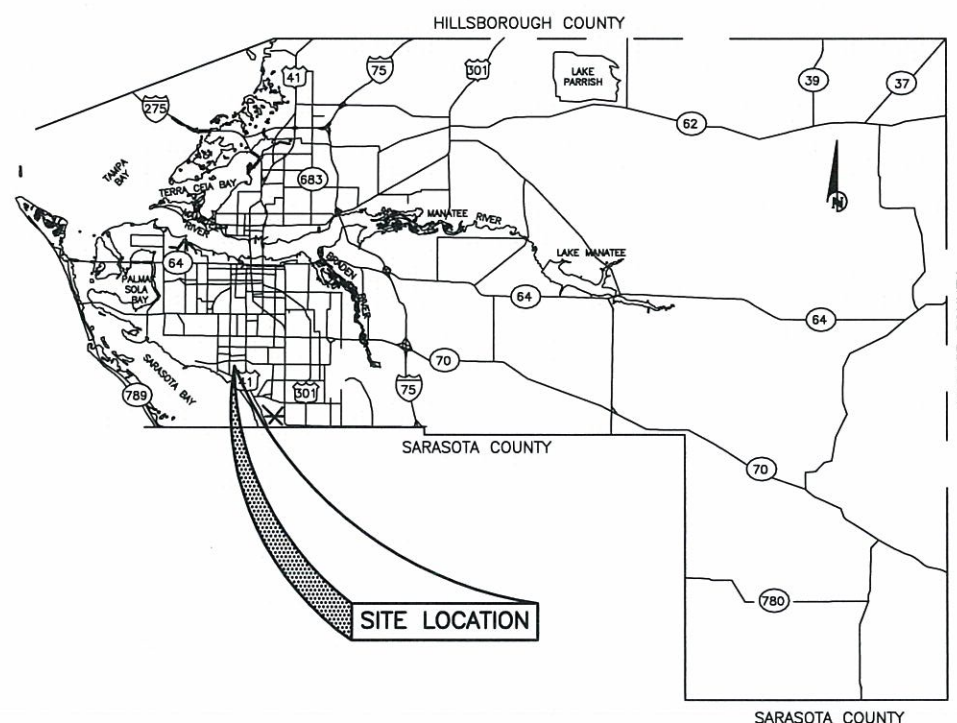
AUGUST 2013



VICINITY MAP
N.T.S.

PROJECT DESCRIPTION

THE REHABILITATION OF THE GRAVITY SEWER SYSTEM VIA REPAIR SLEEVES, JOINT GROUTING, AND PIPE BURSTING.



SITE LOCATION

100% PLANS

NO.	INDEX OF SHEETS
1.	COVER SHEET
2.	GENERAL NOTES & LEGEND
3.	KEY SHEET
4.	FLORIDA AVE & OHIO AVE
5.	FLORIDA AVE & OHIO AVE
6.	INDIANA AVE & MINNESOTA
7.	INDIANA AVE & MINNESOTA
8.	ILLINOIS AVE & IOWA AVE
9.	ILLINOIS AVE & IOWA AVE
10.	MARINA DR (NORTH) PLAN
11.	MARINA DR (SOUTH) PLAN
12.	DETAILS
13.	EROSION CONTROL DETAILS



Know what's below
Call before you dig

NO.	REVISION DESCRIPTION	BY	DATE
	PROJECT #	404-601808 / 601808A	
	SURVEY #	-	
	SEC./TWN./RGE	22/35/17	
	SCALE	SEE PLAN	
		BY	DATE
	SURVEYED	-	-
	DESIGNED	JSS	6/2013
	DRAWN	6/2013	6/2013
	CHECKED	-	-
JOHN S. SHOUN, P.E.			
FLORIDA P.E. # 60923			
 6/22/13			
Signature & Date			
SHEET 1			

TRAILER ESTATES 3 SEWER REHABILITATION COVER

ORIGINAL SIZE: 11x17

SHEET 1

COPYRIGHT 2010 MANATEE COUNTY GOVERNMENT S:\PWD_Engineering_Store\Util_Eng_Design\PROJ\A-SAN_SWR_Pra\Trailer_Estates_Growly_Upgrade\DWG\Active3-Trailer_Estates_Growly_System.dwg, 2 CHL, ULS, 8/22/2013 9:47 AM Shao Shoun, 1:1, Tabloid (11 x 17)

GENERAL

1. ALL CONSTRUCTION ACTIVITIES SHALL BE COORDINATED WITH THE PROJECT MANAGEMENT DIVISION. THE PROJECT MANAGER IS: BRIAN BATES AND CAN BE REACHED AT (941) 708-7450 EXT. 7329
2. SITE VISITS ARE MANDATORY FOR ALL BIDDERS. THESE SITE VISITS CAN BE ARRANGED THROUGH THE PROJECT MANAGER.
3. ALL CONSTRUCTION ON THIS PROJECT SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF MANATEE COUNTY UTILITY AND TRANSPORTATION STANDARDS AND/OR FDOT "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" UNLESS OTHERWISE INDICATED ON THE PLANS.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MEETING ALL CONDITIONS AND REQUIREMENTS OF ALL PERMITS AND ALL GOVERNING FEDERAL, STATE, AND LOCAL AGENCIES. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL REQUIRED PERMITS THAT ARE NOT PROVIDED IN THE BID DOCUMENTS, AT NO ADDITIONAL COST TO THE OWNER.
5. THE INFORMATION PROVIDED IN THESE PLANS IS SOLELY TO ASSIST THE CONTRACTOR IN ASSESSING THE NATURE AND EXTENT OF THE CONDITIONS WHICH MAY BE ENCOUNTERED DURING THE COURSE OF WORK. ALL CONTRACTORS ARE DIRECTED, PRIOR TO BIDDING, TO CONDUCT WHATEVER INVESTIGATION THEY MAY DEEM NECESSARY TO ARRIVE AT THEIR OWN CONCLUSIONS REGARDING THE ACTUAL CONDITIONS THAT WILL BE ENCOUNTERED, AND UPON WHICH THEIR BIDS WILL BE BASED.
6. THE CONTRACTOR SHALL REVIEW AND VERIFY ALL DIMENSIONS ON THE PLANS AND REVIEW ALL FIELD CONDITIONS THAT MAY AFFECT CONSTRUCTION. SHOULD DISCREPANCIES OCCUR, THE CONTRACTOR SHALL NOTIFY THE ENGINEER TO OBTAIN THE ENGINEER'S CLARIFICATION BEFORE COMMENCING WITH CONSTRUCTION.
7. AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION, THE CONTRACTOR SHALL CONTACT SUNSHINE STATE ONE CALL OF FLORIDA AT 1-800-432-4770 OR THE NATIONAL 811 ONE CALL NUMBER WHEN APPLICABLE FOR UTILITY LOCATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH ALL UTILITIES FOR THE POSSIBLE RELOCATION OR THE TEMPORARY MOVEMENT OF ANY EXISTING UTILITIES WITHIN THE RIGHTS-OF-WAY.
8. NO WORK, EXCEPT FOR EMERGENCY TYPE, SHALL BE PERFORMED AFTER 7:00 PM AND BEFORE 7:00 AM. FOR ADDITIONAL PROJECT RESTRAINTS, REFER TO SECTION 01310 OF THE SPECIFICATIONS.

SAFETY

9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE WITH THE FLORIDA TRENCH SAFETY ACT, 90-96, LAWS OF FLORIDA EFFECTIVE OCTOBER 1, 1990 AND THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION EXCAVATION SAFETY STANDARDS, 29 CFR 1926.650, SUBPART P, AS AMENDED. THE CONTRACTOR SHALL INCLUDE IN THE TOTAL BID PRICE ALL COSTS FOR COMPLIANCE WITH THESE REGULATIONS.
10. THE CONTRACTOR SHALL USE SHEET PILING, SHEETING, BRACING, ETC., AS REQUIRED IN ALL EXCAVATION AREAS AND CONFORM TO ALL OSHA REQUIREMENTS.
11. THE CONTRACTOR SHALL USE ALL NECESSARY SAFETY PRECAUTIONS TO AVOID CONTACT WITH OVERHEAD AND UNDERGROUND UTILITIES, POWER LINES, ETC.
12. THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY. THIS EXCLUSION DOES NOT ALLEVIATE THE CONTRACTOR FOR PROVIDING A CONTINUOUS SAFE WORKSPACE.

ENVIRONMENTAL

13. THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL NECESSARY STORM WATER, EROSION, AND SEDIMENTATION CONTROL MEASURES IN ACCORDANCE WITH THE FDP "FLORIDA STORM WATER, EROSION AND SEDIMENTATION CONTROL INSPECTOR'S MANUAL". IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONTROL AND PREVENT EROSION AND TRANSPORT OF SEDIMENT TO SURFACE DRAINS AND TO DITCHES DURING CONSTRUCTION.
14. STOCKPILES SHALL BE PROTECTED AT ALL TIMES BY ON-SITE DRAINAGE CONTROLS WHICH PREVENT EROSION OF THE STOCKPILED MATERIAL. CONTROL OF DUST FROM SUCH STOCKPILES IS REQUIRED, DEPENDING UPON THEIR LOCATION AND THE EXPECTED LENGTH OF TIME THE STOCKPILES WILL BE PRESENT. IN NO CASE SHALL ANY STOCKPILED MATERIAL REMAIN AFTER THIRTY (30) CALENDAR DAYS.
15. STORM WATER INLETS IN THE VICINITY OF THE PROJECT SHALL BE PROTECTED BY SEDIMENT TRAPS SUCH AS SECURED HAY BALES, SOD, STONE, ETC., WHICH SHALL BE MAINTAINED AND MODIFIED AS REQUIRED BY CONSTRUCTION PROGRESS, AND WHICH MUST BE APPROVED BY THE ENGINEER BEFORE INSTALLATION. THIS WILL BE MAINTAINED TO PREVENT DEGRADATION OF THE WATERS OF THE COUNTY AND STATE.
16. SEDIMENT BASINS AND TRAPS, PERIMETER BERMS, SEDIMENT BARRIERS, VEGETATIVE BUFFERS, AND OTHER MEASURES INTENDED TO TRAP SEDIMENT AND/OR PREVENT THE TRANSPORT OF SEDIMENT ONTO ADJACENT PROPERTIES, OR INTO EXISTING BODIES OF WATER, MUST BE INSTALLED, CONSTRUCTED, OR IN THE CASE OF VEGETATIVE BUFFERS, PROTECTED FROM DISTURBANCE, AS A FIRST STEP IN THE LAND ALTERATION PROCESS. SUCH SYSTEMS SHALL BE FULLY OPERATIVE BEFORE ANY OTHER DISTURBANCE OF THE SITE BEGINS. EARTHEN STRUCTURES INCLUDING BUT NOT LIMITED TO BERMS, EARTH FILTERS, DAMS OR DIKES SHALL BE STABILIZED AND PROTECTED FROM DRAINAGE DAMAGE OR EROSION WITHIN ONE (1) WEEK OF INSTALLATION.
17. ALL SWALES, DITCHES, AND CHANNELS LEADING FROM THE SITE SHALL BE PROTECTED FROM SILTATION AND EROSION DURING CONSTRUCTION AND BE SODDED WITHIN THREE (3) DAYS OF EXCAVATION.
18. SOIL DISPLACED BY CONSTRUCTION WILL BE REMOVED. EROSION CONTROL SHALL BE IMPLEMENTED IN AREAS WHICH ARE CONSIDERED ENVIRONMENTALLY SENSITIVE. EROSION CONTROL SYSTEMS SHALL BE REQUIRED FOR ALL WORK WITHIN JURISDICTIONAL AREAS. THESE SYSTEMS MAY INCLUDE STAKED HAY BALES, SILT SCREENS, FILTER FABRIC, AND TURBIDITY SCREENS.
19. ALL EROSION AND POLLUTION CONTROL DEVICES SHALL BE CHECKED REGULARLY, ESPECIALLY AFTER EACH RAINFALL AND SHALL BE CLEANED OUT AND/OR REPAIRED AS REQUIRED.
20. THE CONTRACTOR SHALL NOT ENTER UPON OR IN ANY WAY ALTER WETLAND AREAS THAT MAY BE ON OR NEAR THE CONSTRUCTION SITE. ALL WORK IN THE VICINITY OF OPEN WATER AND/OR WETLANDS IS TO BE PERFORMED IN COMPLIANCE WITH THE ENVIRONMENTAL REGULATIONS AND/OR PERMITS FOR THE SITE. THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY FINES RESULTING FROM HIS VIOLATION OF ANY REGULATIONS OR PERMIT CONDITIONS.
21. FOR MORE INFORMATION, SEE THE EROSION CONTROL DETAIL SHEET INCLUDED IN THE PLANS.

RIGHT-OF-WAY

22. ALL CONSTRUCTION ACTIVITIES SHALL BE LIMITED TO WITHIN THE MANATEE COUNTY/FDOT RIGHT-OF-WAY AND/OR EASEMENTS SHOWN ON THE DRAWINGS.
23. THE CONTRACTOR SHALL EMPLOY A LAND SURVEYOR REGISTERED IN THE STATE OF FLORIDA TO REFERENCE AND RESTORE PROPERTY CORNER MONUMENTS, PINS, AND LANDMARKS THAT MAY BE DISTURBED BY CONSTRUCTION AT NO ADDITIONAL COST TO THE OWNER.
24. THE CONTRACTOR, PRIOR TO CONSTRUCTION AND RESTRICTING ANY TRAFFIC, MUST OBTAIN A RIGHTS-OF-WAY USE PERMIT AND A TRAFFIC CONTROL PLAN. THE CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS FROM OTHER GOVERNMENTAL AGENCIES HAVING RELEVANT JURISDICTION. ALL MAINTENANCE AND PROTECTION OF TRAFFIC SHALL BE IN ACCORDANCE WITH THE APPLICABLE REQUIREMENTS OF THE CURRENT FLORIDA DEPARTMENT OF TRANSPORTATION "MANUAL OF TRAFFIC CONTROL AND SAFE PRACTICES". A TRAFFIC CONTROL PLAN SHALL BE SUPPLIED BY THE CONTRACTOR AT THE PRE-CONSTRUCTION MEETING.
25. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING ALL DAMAGED STORM WATER STRUCTURES, PIPING, ENTRANCE PIPE AND HEADWALLS WHETHER SHOWN ON THE PLANS OR NOT. THE HEADWALLS SHALL BE REPLACED IN ACCORDANCE WITH F.D.O.T. STANDARDS.
26. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ESTABLISH IN THE FIELD THE RIGHT-OF-WAY LINES, BASE LINES, BENCH MARKS (ELEV.), CENTER LINES, AND STATIONING AS REQUIRED TO CONSTRUCT THIS PROJECT.
27. THE CONTRACTOR SHALL COORDINATE THE CUTTING OF DRIVEWAYS WITH THE PROPERTY OWNER PRIOR TO CUT. ALL DRIVEWAYS WILL BE IN PASSABLE CONDITION AT THE END OF THE WORK DAY AND FULLY RESTORED PER SECTION 02575.
28. A RIGHT OF ENTRY AGREEMENT SHALL BE OBTAINED BY THE PROJECT MANAGER FROM THE PROPERTY OWNER BEFORE ANY DRIVEWAY CONSTRUCTION WORK IS DONE OUTSIDE OF THE RIGHT-OF-WAY OR EASEMENT.

UTILITIES

29. LOCATIONS, ELEVATIONS AND DIMENSIONS OF EXISTING UTILITIES, STRUCTURES AND OTHER FEATURES ARE SHOWN TO THE BEST INFORMATION AVAILABLE AT THE TIME OF PREPARATION OF THESE PLANS BUT DO NOT PURPORT TO BE

ABSOLUTELY CORRECT. THERE MAY BE OTHER IMPROVEMENTS, UTILITIES, ETC. WHICH ARE WITHIN THE PROJECT AREA AND WHICH HAVE NOT BEEN LOCATED OR IDENTIFIED, MAY NOT BE IN THE EXACT LOCATION SHOWN OR RELOCATED SINCE THE PREPARATION OF THESE PLANS. THE CONTRACTOR SHALL VERIFY, PRIOR TO CONSTRUCTION, THE LOCATIONS, ELEVATIONS AND DIMENSIONS OF ALL EXISTING UTILITIES STRUCTURES AND OTHER FEATURES (WHETHER OR NOT SHOWN ON THE PLANS) THAT MAY EFFECT HIS WORK. ALL EXISTING UTILITIES TO BE EXTENDED, CROSSED OR CONNECTION POINTS SHALL BE EXPOSED PRIOR TO CONSTRUCTION TO VERIFY LOCATION AND ELEVATION. ANY DISCREPANCIES OR CONFLICTS FOUND SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION FOR RESOLUTION.

30. THE CONTRACTOR SHALL PROTECT ALL EXISTING STRUCTURES, WATER AND SEWER LINES, STORM DRAINS, UTILITIES, DRIVEWAYS, SIDEWALKS, SIGNS, MAIL BOXES, FENCES, TREES, LANDSCAPING, AND ANY OTHER IMPROVEMENT OR FACILITY IN THE CONSTRUCTION AREA. THE CONTRACTOR SHALL REPAIR AND/OR REPLACE ANY DAMAGED ITEM DUE TO HIS CONSTRUCTION ACTIVITIES TO EQUAL OR BETTER THAN PRE-CONSTRUCTION CONDITIONS AT NO ADDITIONAL COST TO THE OWNER.
31. THE CONTRACTOR SHALL USE APPROPRIATE TECHNIQUES, AS APPROVED, RECOMMENDED OR OFFERED BY FLORIDA POWER AND LIGHT TO PREVENT UNDERMINING OF POWER POLES DURING CONSTRUCTION. IF HOLDING OF POWER POLES IS RECOMMENDED OR REQUIRED BY THE UTILITY, THE CONTRACTOR SHALL COORDINATE THIS ACTIVITY WITH THE UTILITY AND BEAR ALL RELATED COSTS.
32. ANY TEMPORARY SHUTDOWNS FOR MODIFICATIONS OF EXISTING UTILITY SYSTEMS THAT MUST REMAIN IN SERVICE DURING CONSTRUCTIONS SHALL BE KEPT TO A MINIMUM AND SHALL BE COORDINATED WITH AND APPROVED BY THE MANATEE COUNTY UTILITY OPERATIONS DEPARTMENT IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. IT IS NOTED THAT TEMPORARY SHUTDOWNS MAY BE RESTRICTED TO CERTAIN HOURS AT ANY TIME OF THE DAY OR NIGHT AND WILL BE COMPLETED AT NO ADDITIONAL COST TO THE OWNER.
33. FOR WORK BEING DONE ON EXISTING SANITARY SEWER LINES, THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE FLOW OF ALL SEWAGE DURING CONSTRUCTION, WHICH MAY REQUIRE BY-PASS PUMPING AND/OR PUMPER TRUCKS. THE CONTRACTOR SHALL SUBMIT A DETAILED BY-PASS PUMPING PLAN PER SECTION 02720.

RESTORATION

34. ALL RESTORATION WORK PERFORMED THROUGHOUT THE PROJECT SHALL CONFORM TO EXISTING LINES AND GRADES UNLESS SHOWN OTHERWISE.
35. ALL DISTURBED GRASSED AREAS SHALL BE SODDED OR SEEDED UNLESS OTHERWISE INDICATED. THE TYPE OF SOD USED TO REPLACE OWNER MAINTAINED AREAS IN RIGHT-OF-WAY SHALL BE COORDINATED WITH THE PROPERTY OWNER.
36. ALL CONCRETE THRUST BLOCKS INSTALLED FOR TESTING PURPOSES AND NOT REQUIRED FOR THE OPERATION OF THE PIPELINE SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR, PRIOR TO FINAL ACCEPTANCE, AT NO ADDITIONAL COST TO THE OWNER.
37. ASPHALT DRIVES THAT ARE CUT SHALL BE RESTORED PER SECTION 02513.
38. CONCRETE DRIVEWAYS OR SIDEWALKS THAT ARE CUT SHALL BE RESTORED TO MATCH EXISTING ACCORDING TO THE CURRENT EDITIONS OF THE F.D.O.T. SPECIFICATIONS FOR ROAD AND BRIDGE DESIGN, SECTION 522, AND SECTION 310 OF THE F.D.O.T. DESIGN STANDARDS.
39. WHENEVER A PERMANENT ROADWAY SURFACE IS NOT PLACED IMMEDIATELY AFTER BACKFILLING AND COMPACTION OF THE NEWLY INSTALLED PIPE LINE IN AREAS WHERE TRAFFIC MUST PASS, THE CONTRACTOR SHALL INSTALL A TEMPORARY SURFACE CONSISTING OF NINE INCHES OF COMPACTED LIME ROCK BASE AND A COAT OF ASPHALT EMULSION. PERMANENT ROADWAY REPAIR SHALL BE PERFORMED A MAXIMUM OF TWENTY-ONE CALENDAR DAYS AFTER THE INITIAL OPEN CUTTING.
40. RESTORATION OF CURBS, DRIVEWAYS, SIDEWALKS, AND PLACEMENT OF SOD SHALL BE COMPLETED WITHIN FORTY-FIVE CALENDAR DAYS OF INITIAL DISTURBANCE, OR TWENTY-ONE CALENDAR DAYS OF SUBSTANTIAL COMPLETION, WHICHEVER OCCURS FIRST.

CONSTRUCTION

41. THE EXHAUST SYSTEM OF ALL GASOLINE AND DIESEL ENGINES SHALL BE EQUIPPED WITH MUFFLERS THAT MEET THE EQUIPMENT MANUFACTURER'S REQUIREMENTS FOR NOISE SUPPRESSION. THE CONTRACTOR SHALL INSTALL NOISE ABATEMENT Baffles POSITIONED TO BREAK LINE-OF-SITE FROM THE NOISE SOURCE TO AFFECTED RESIDENCES, AS APPROVED BY THE ENGINEER.
42. NO MATERIAL SHALL BE STOCKPILED IN ROADWAYS. ALL DIRT AND DEBRIS SHALL BE REMOVED FROM THE JOB SITE DAILY. ROADS SHALL BE SWEEP DAILY AS PART OF DAILY CLEAN UP.
43. THE CONTRACTOR IS TO CONTROL ALL FUGITIVE DUST ORIGINATING ON THIS PROJECT BY WATERING OR OTHER METHODS AS REQUIRED.
44. INGRESS AND EGRESS TO ALL THE PROPERTIES IN THE CONSTRUCTION AREA SHALL BE MAINTAINED AT ALL TIMES.
45. PRIOR APPROVAL WILL BE REQUIRED FOR REMOVAL OF ANY TREE WITHIN THE CONSTRUCTION AREA.
46. THE CONTRACTOR SHALL PROVIDE ALL DEWATERING EQUIPMENT NECESSARY TO KEEP ALL EXCAVATIONS DRY. DEWATERING IS REQUIRED TO 18" BELOW TRENCH BOTTOM.
47. ALL PIPING AND FITTINGS USED ON THIS PROJECT SHALL BE AS NOTED ON THE PLANS AND IN THE CONTRACT DOCUMENT AND SHALL BE INSTALLED TO THE LINES AND GRADES SHOWN ON THE PLANS AND PROFILES.
48. ALL PIPE SHALL BE COLOR CODED TO CONFORM TO MANATEE COUNTY STANDARDS.
49. ALL PIPE AND FITTINGS SHALL BE INSTALLED AS RECOMMENDED BY THE MANUFACTURER AND ALL PIPE JOINTS SHALL BE RESTRAINED WHERE REQUIRED.
50. ALL FITTINGS FOR PRESSURE CLASS-RATED PIPE SHALL BE RESTRAINED DUCTILE IRON. RESTRAINED LENGTHS OF PIPE SHALL ADHERE TO THE REQUIREMENTS AS SHOWN ON THE DETAIL SHEETS.
51. WHERE IT IS NECESSARY TO DEFLECT PIPE EITHER HORIZONTALLY OR VERTICALLY, PIPE DEFLECTION SHALL NOT EXCEED 75% OF THE MANUFACTURER'S MAXIMUM ALLOWABLE RECOMMENDED DEFLECTION.
52. ALL PIPE LENGTHS ARE PLUS OR MINUS AND MAY BE ADJUSTED IN THE FIELD AS REQUIRED. PIPE MEASUREMENTS ARE TO CENTER OF STRUCTURES OR FITTINGS.
53. ALL ROCKS OR STONES LARGER THAN SIX INCH DIAMETER SHALL BE REMOVED FROM THE BACKFILL MATERIAL. BACKFILL MATERIAL PLACED WITHIN ONE FOOT OF PIPING AND APPURTENANCES SHALL NOT CONTAIN ANY STONES LARGER THAN TWO INCH DIAMETER.
54. ONLY MANATEE COUNTY UTILITY OPERATIONS STAFF ARE AUTHORIZED TO OPERATE VALVES ON COUNTY OWNED AND MAINTAINED UTILITY SYSTEMS.
55. ALL PENETRATION OF EXISTING STRUCTURES SHALL BE BY THE MECHANICAL ROTARY CORE BORING METHOD.
56. ALL CONCRETE PENETRATED OR DISTURBED SHALL BE COATED WITH TWO COATS OF EPOXY.

57. THE CONTRACTOR, PRIOR TO ANY TEMPORARY WATER SHUT-OFFS DURING WATER MAIN TIE-IN, ETC., SHALL NOTIFY THE AFFECTED RESIDENTS BY POSTING INFORMATIONAL SIGNS IN THE NEIGHBORHOOD AT LEAST TWO DAYS (48 HRS) PRIOR TO THE WATER SHUT-OFF. REFERENCE SECTION 01580, PARAGRAPH 1.03 OF THE SPECIFICATIONS. WHEN FEASIBLE, "DOOR HANGERS" SHALL BE DELIVERED TO AFFECTED RESIDENCES AT LEAST TWO DAYS (48 HRS) PRIOR TO WATER SHUT-OFF. FOR LARGE PROJECTS WITH HUNDREDS OF HOMES AFFECTED, THE CONTRACTOR SHALL ALSO MAKE EXTENSIVE USE OF THE MEDIA AND SHALL HAVE PRIOR CONTACT WITH HOMEOWNER'S ASSOCIATIONS. WRITTEN NOTIFICATIONS SHALL ALSO BE FAXED TO THE TAMPA TRIBUNE, BRADENTON HERALD, SARASOTA HERALD TRIBUNE, WBRD RADIO, EMERGENCY COMMUNITY CENTERS, INSPECTIONS, WATER TREATMENT PLANT, WATER MANAGER, HELPLINE, CUSTOMER SERVICE, AND THE MANATEE COUNTY UTILITY OPERATIONS DEPARTMENT.

58. ALL NEW PIPE LINES SHALL BE PIG CLEANED (4" AND LARGER), FLUSHED, PRESSURE TESTED, DISINFECTED AND CERTIFIED PRIOR TO TIE-INS TO EXISTING FACILITIES. THE CONTRACTOR WILL BE ALLOWED TO USE TEMPORARY PLUGS FOR PIG CLEANING AND PRESSURE TESTING.
59. ALL TEST POINT PIPING SHALL BE CUT LOOSE FROM THE CORPORATION STOP AND COMPLETELY REMOVED AND DISPOSED OF BY THE CONTRACTOR PRIOR TO FINAL ACCEPTANCE. A CORPORATION STOP PLUG SHALL BE INSTALLED AND THE CORPORATION STOP SHALL REMAIN IN PLACE.
60. ALL EXISTING MAINS THAT ARE BEING REPLACED SHALL BE ABANDONED IN PLACE UPON ACCEPTANCE AND ACTIVATION OF THE NEW MAINS. ABANDONED MAINS SHALL BE CUT, FILLED WITH GROUT, AND CAPPED. REFER TO SECTION 02064 OF THE SPECIFICATIONS FOR GROUTING OF ABANDONED PIPE.

61. WATER MAINS CROSSING OVER OR UNDER SANITARY SEWERS, FORCE MAINS, AND RECLAIMED WATER LINES SHALL BE

LAI D PER CURRENT EDITION OF "10 STATE STANDARDS" AND MANATEE COUNTY UTILITY STANDARDS UNLESS NOTED OTHERWISE ON THE PLANS.

62. FIELD CONDITIONS MAY NECESSITATE MINOR ALIGNMENT AND GRADE DEVIATION OF THE PROPOSED UTILITIES TO AVOID OBSTACLES, AS ORDERED BY THE ENGINEER.

63. CONTRACTOR SHALL PROVIDE RECORD DRAWINGS IN ACCORDANCE WITH SECTION 14 IN THE CURRENT MANATEE COUNTY UTILITY STANDARDS AT NO COST TO THE OWNER. RECORD DRAWINGS SHALL BE SIGNED & SEALED BY A SURVEYOR CURRENTLY LICENSED BY THE STATE OF FLORIDA. ALL RECORD DRAWING INFORMATION REQUIREMENTS IN SECTION 14 SHALL BE STRICTLY ENFORCED. A COPY OF SECTION 14 WILL BE PROVIDED UPON REQUEST.

CONTACTS

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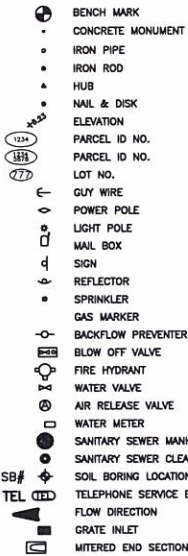
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WACHULA, FL 33873
KENDELL COKER
(863) 767-4660
kendell.coker@preco.coop

EXISTING

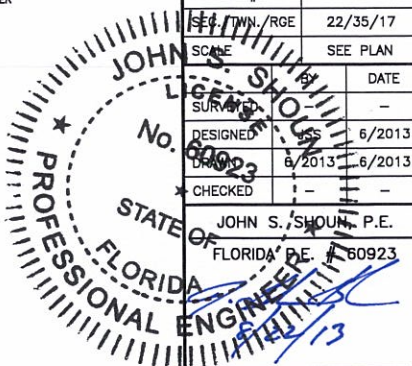
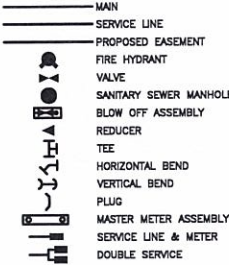


LEGEND

ABBREVIATIONS

R/W	RIGHT OF WAY
CONC	CONCRETE
ASPH	ASPHALT
DRWY	DRIVEWAY
SWK	SIDEWALK
EP	EDGE OF PAVEMENT
BOC	BACK OF CURB

PROPOSED



ORIGINAL SIZE: 11x17

TRAILER ESTATES 3
SEWER REHABILITATION
GENERAL NOTES & LEGEND

DATE	BY	REVISION DESCRIPTION	NO.	PROJECT #	404-6018081 / 6018084
				SURVEY #	-
				SETTOWN/RGE	22/35/17
				SCALE	SEE PLAN
				SURVEY	-
				DESIGNED	6/2013
				CHECKED	6/2013
				JOHN S. SHOUN, P.E.	FLORIDA P.E. #60923
				Signature & Date	
				SHEET 2	

○ APPROX. SEWER CONNECTION LOCATION

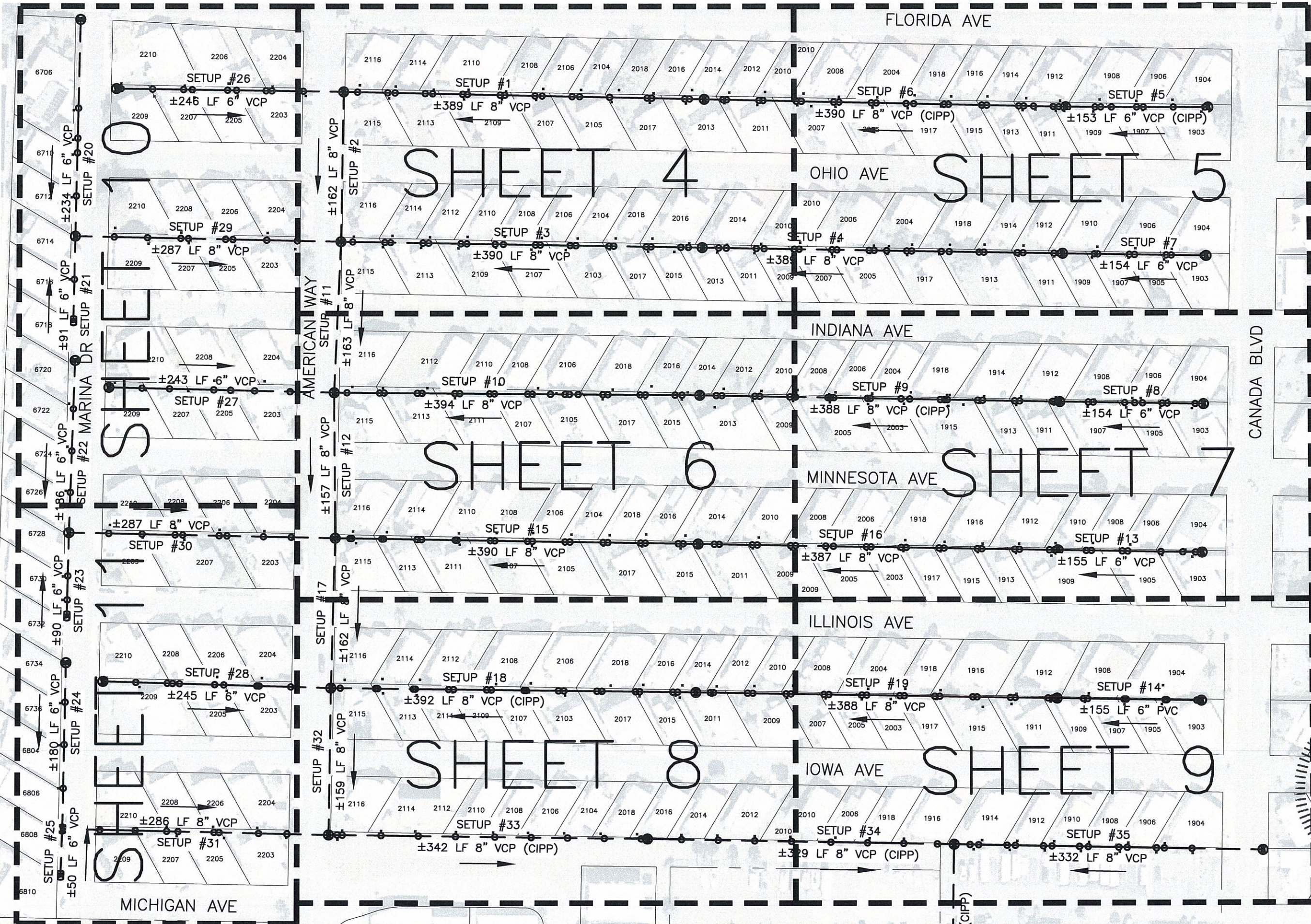
CONTRACTOR SHALL REFERENCE SECTION 14 IN THE
CURRENT MANATEE COUNTY UTILITY STANDARDS FOR
RECORD DRAWING REQUIREMENTS.



ORIGINAL SIZE: 11x17

TRAILER ESTATES 3
SEWER REHABILITATION
KEY SHEET

NO.	REVISION DESCRIPTION	DATE
1	ISSUED FOR PERMIT	6/22/2013
2	DESIGNED	6/22/2013
3	DRAWN	6/22/2013
4	CHECKED	6/22/2013
5	APPROVED	6/22/2013
6	PROJECT	404-6018081
7	SURVEY	6018084
8	SEC. TYP. / RGE	22/35/17
9	SCALE	1"=100'
10	DATE	
11	DESIGNED	JSS 6/22/2013
12	DRAWN	6/22/2013
13	CHECKED	
14	APPROVED	
15	JOHN S. SHOWN, P.E.	60923
16	FLORIDA ENGINEER	
17	SIGNATURE & DATE	
18	SHEET 3	



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1. REPAIR SLEEVES SHALL BE INSTALLED CENTERED ON INDICATED REPAIRS. ALL JOINTS THAT WILL BE COVERED BY A REPAIR SLEEVE SHALL BE GROUT SEALED TO PREVENT WATER INTRUSION.
2. ALL EXISTING MANHOLES LABELED FOR RESTORATION SHALL BE COMPLETELY REHABILITATED FOR STRUCTURAL SOUNDNESS, PREVENT WATER INFILTRATION, AND LINED TO PREVENT FUTURE CORROSION.

3. ALL EXISTING UTILITIES (FPL, VERIZON, ETC) ARE GENERALLY LOCATED BEHIND THE MOBILE HOMES AND ADJACENT TO STREETS. CAUTION SHALL BE USED WHEN DIGGING IN THESE GENERAL AREAS.

CONTRACTOR SHALL REFERENCE SECTION 14 IN THE
CURRENT MANATEE COUNTY UTILITY STANDARDS FOR
RECORD DRAWING REQUIREMENTS.



**TRAILER ESTATES 3
SEWER REHABILITATION
FLORIDA AVE & OHIO AVE (WEST) PLAN**

ORIGINAL SIZE: 11x17

1

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7

PROJECT #	404-60180 / 601805
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SURVEY #	-
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SEC. / TWIN / RGE	22/35/1
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SCALE	SEE PLAN
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BY	DATE
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	SURVEYED	
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DESIGNED	SS	6/2
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DRAWN	6/20/83	6/20/83
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DATE	11/11/11	
CHECKED	11/11/11	

OF	CHECKED	DATE

JOHN S. SHOWN, F.E.

FLORIDA P.E. # 6092

VG 11/11/11

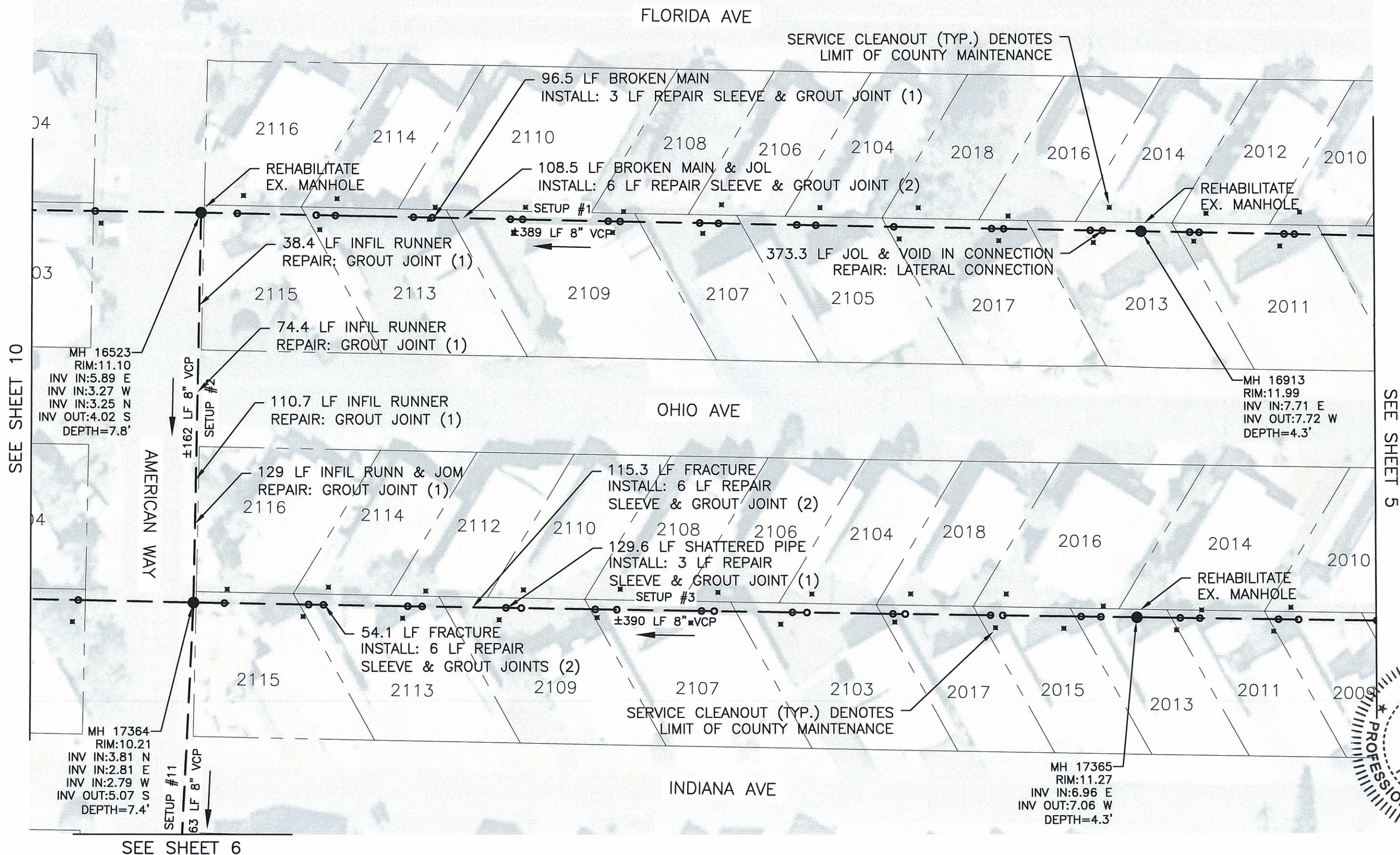
11/11/23

7/29/13

Signature & Date

SHEET 4

	STEEL 4
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1. REPAIR SLEEVE SHALL BE INSTALLED CENTERED ON INDICATED REPAIRS. ALL JOINTS THAT WILL BE COVERED BY A REPAIR SLEEVE SHALL BE GROUT SEALED TO PREVENT WATER INTRUSION.
2. ALL EXISTING MANHOLES LABELED FOR RESTORATION SHALL BE COMPLETELY REHABILITATED FOR STRUCTURAL SOUNDNESS, PREVENT WATER INFILTRATION, AND LINED TO PREVENT FUTURE CORROSION.

3. ALL EXISTING UTILITIES (FPL, VERIZON, ETC) ARE GENERALLY LOCATED BEHIND THE MOBILE HOMES AND ADJACENT TO STREETS. CAUTION SHALL BE USED WHEN DIGGING IN THESE GENERAL AREAS.

CONTRACTOR SHALL REFERENCE SECTION 14 IN THE
CURRENT MANATEE COUNTY UTILITY STANDARDS FOR
RECORD DRAWING REQUIREMENTS.



**TRAILER ESTATES 3
SEWER REHABILITATION
FLORIDA AVE & OHIO AVE (EAST) PLAN**

ORIGINAL SIZE: 11x17

DATE _____

BY _____

REVISION	DESCRIPTION
1	Initial release

No.

PROJECT #	404-6018081 / 6018081
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SURVEY #	-
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SEC./TWN./RGE	22/35/17
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SCALE	SEE PLAN
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BY	DATE
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Survived	7/11	-
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DESIGNED JSS 6/2013

DRAWN 6/20/83 6/2013

CHECKED	DATE	BY
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JOHN S. SHOUN, P.E.

FLORIDA P.E. # 60923

11/11/11

A hand-drawn diagram of a neuron. It shows a central cell body with several branching structures labeled 'Dendrites'. A long, thin structure labeled 'Axon' extends from the cell body, covered by a 'Myelin Sheath'. The axon ends in 'Axon Terminals'.

DA 8/22/53

Signature & Date

SHEET 5

SEE SHEET 4

FLORIDA AVE

MH 16916
 RIM:14.04
 INV IN:9.99 E
 INV OUT:10.04 W
 DEPTH=4.0'

— 116 LF BLOCKED CONNECTION
REPAIR: REMOVE BLOCKAGE

MH 16914
RIM:15.02
INV OUT:11.67 W
DEPTH=3.4'

OHIO AVE

-MH 17520
RIM:13.84
INV IN:9.54 E
INV OUT:9.47 W
DEPTH=4.4'

CANADA BLVD

MH 17519
RIM:14.45
INV OUT:11.05 W
DEPTH=3.4'

INDIANA AVE

SEE SHEET 7

SERVICE CLEANOUT (TYP.) DENOTES
LIMIT OF COUNTY MAINTENANCE

31.8 LF SLUG RESIN IN CONNECTION
REPAIR: REMOVE RESIN

- REHABILITATE
EX. MANHOLE

SERVICE CLEANOUT (TYP.) DENOTES
LIMIT OF COUNTY MAINTENANCE

Copyright 2010 Navate County Government S:\PWO_Engineering_Share\Util_Eng_Design\PROJ\~SAN SWR Proj\Trailer Estates Gravity Upgrades\DWG\active3-Trailer Estates Gravity System.dwg, 5 Plot, 8/22/2013 9:47 AM Sheet Shown, 1:1, Tabloid (11 x 17")

NOTE:

- REPAIR SLEEVE SHALL BE INSTALLED CENTERED ON INDICATED REPAIRS. ALL JOINTS THAT WILL BE COVERED BY A REPAIR SLEEVE SHALL BE GROUT SEALED TO PREVENT WATER INTRUSION.
- ALL EXISTING MANHOLES LABELED FOR RESTORATION SHALL BE COMPLETELY REHABILITATED FOR STRUCTURAL SOUNDNESS, PREVENT WATER INFILTRATION, AND LINED TO PREVENT FUTURE CORROSION.
- ALL EXISTING UTILITIES (FPL, VERIZON, ETC) ARE GENERALLY LOCATED BEHIND THE MOBILE HOMES AND ADJACENT TO STREETS. CAUTION SHALL BE USED WHEN DIGGING IN THESE GENERAL AREAS.

CONTRACTOR SHALL REFERENCE SECTION 14 IN THE CURRENT MANATEE COUNTY UTILITY STANDARDS FOR RECORD DRAWING REQUIREMENTS.



TRAILER ESTATES 3
SEWER REHABILITATION
INDIANA AVE & MINNESOTA AVE (WEST) PLAN

ORIGINAL SIZE: 11x17

DATE

BY

REVISION DESCRIPTION

NO.

PROJECT # 404-6018081

SURVEY # / 6018084

SEC./TWN./RGE 22/35/17

SCALE SEE PLAN

SURVEYED BY DATE

DESIGNED BY DATE

DRAWN BY DATE

CHECKED BY DATE

JOHN S. SHOUN, P.E.

FLORIDA P.E. # 60923

Signature & Date

SHEET 6

SEE SHEET 4

INDIANA AVE

MH 17365
RIM:11.27
INV IN:6.96 E
INV OUT:7.06 W
DEPTH=4.3'

208.3 & 213.3 LF DEFECTIVE TAP

SERVICE CLEANOUT (TYP.) DENOTES
LIMIT OF COUNTY MAINTENANCE

REHABILITATE
EX. MANHOLE

SETUP #10
±394 LF 8" VCP

MH 15300
RIM:10.36
INV IN:6.50 E
INV OUT:6.45 W
DEPTH=3.9'

50.1 LF FRACTURE
INSTALL: 3 LF REPAIR SLEEVE
& GROUT JOINT (1)

MINNESOTA AVE

181 LF HOLE IN PIPE
INSTALL: 3 LF REPAIR SLEEVE & GROUT (1)

155.6 LF INFIL RUNNER
REPAIR: GROUT JOINT (1)

361.3 LF FRACTURE
INSTALL: 5 LF REPAIR
SLEEVE & GROUT JOINTS (2)

REHABILITATE
EX. MANHOLE

SETUP #15
±390 LF 8" VCP

SERVICE CLEANOUT (TYP.) DENOTES
LIMIT OF COUNTY MAINTENANCE

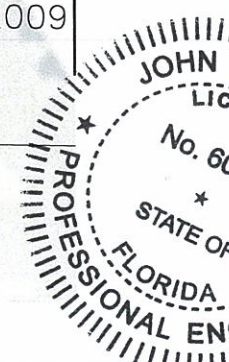
ILLINOIS AVE

MH 15301
RIM:9.51
INV IN:5.65 E
INV OUT:5.60 W
DEPTH=3.9'

171.9 LF INFIL RUNNER IN CONNECTION
REPAIR: GROUT CONNECTION ?

207.4 LF INFIL RUNNER IN CONNECTION
REPAIR: GROUT CONNECTION ?

SEE SHEET 8



- NOTE:
1. REPAIR SLEEVE SHALL BE INSTALLED CENTERED ON INDICATED REPAIRS. ALL JOINTS THAT WILL BE COVERED BY A REPAIR SLEEVE SHALL BE GROUT SEALED TO PREVENT WATER INTRUSION.
 2. ALL EXISTING MANHOLES LABELED FOR RESTORATION SHALL BE COMPLETELY REHABILITATED FOR STRUCTURAL SOUNDNESS, PREVENT WATER INFILTRATION, AND LINED TO PREVENT FUTURE CORROSION.

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CONTRACTOR SHALL REFERENCE SECTION 14 IN THE CURRENT MANATEE COUNTY UTILITY STANDARDS FOR RECORD DRAWING REQUIREMENTS.

SEE SHEET 6

SERVICE CLEANOUT (TYP.) DENOTES
LIMIT OF COUNTY MAINTENANCE

ILLINOIS AVE

207.4 LF INFIL RUNNER IN CONNECTION
REPAIR: GROUT CONNECTION ?

209.8 LF INFIL RUNNER IN CONNECTION
REPAIR: GROUT CONNECTION ?

244.6 LF INFIL RUNNER IN CONNECTION
REPAIR: GROUT CONNECTION ?

326.8 LF INFIL RUNNER IN CONNECTION
REPAIR: GROUT CONNECTION ?

331.6, 367.2, & 372.3 LF
INFIL WEEPER IN CONNECTION
REPAIR: GROUT CONNECTION ?

14.1 LF INFIL WEEPER
REPAIR: GROUT JOINT (1)

15.8 LF INFIL RUNNER
REPAIR: GROUT JOINT (1)

REHABILITATE
EX. MANHOLE

IOWA AVE

SERVICE CLEANOUT (TYP.) DENOTES
LIMIT OF COUNTY MAINTENANCE

96.2 LF INFIL GUSHER FROM
BEHIND LINER @ CONNECTION

±342 LF 8" VCP (CIPP)

217 LF INFIL DRIPPER
IN CONNECTION

INSTALL: ±342 8" HDPE PIPE BURST
& ±10 INSERTA TEE CONNECTION &
RECONNECT EX. SERVICES.

256.4 LF INFIL DRIPPER
IN CONNECTION

252.9 LF INFIL GUSHER FROM
BEHIND LINER @ CONNECTION

231 LF INFIL GUSHER FROM
BEHIND LINER @ CONNECTION

174.5 LF
INFIL GUSHER
FROM BEHIND
LINER @
CONNECTION

MH 17794
RIM:8.45
INV IN:4.55 E
INV OUT:4.56 W
DEPTH=3.9'

MH 17797
RIM:7.55
INV IN:0.26 W
INV OUT:0.11 E
DEPTH=7.4'

MH 15564
RIM:7.55
INV IN:1.22 W
INV IN:0.90 N
INV OUT:0.78 E
DEPTH=6.8'

REHABILITATE
EX. MANHOLE

20-25 LF INFIL DRIPS
FROM TOP OF PIPE

56.8 LF INFIL RUNNER
IN CONNECTION

SETUP #32
±159 LF 8" VCP

SETUP #17
±162 LF 8" VCP

MH 15168
RIM:11.59
INV IN:2.67 E
INV IN:1.45 N
INV IN:2.00 W
INV OUT:1.39 S
DEPTH=10.2'

MH 15166
RIM:9.18
INV IN:1.80 N
INV IN:4.48 E
INV IN:2.09 W
INV OUT:1.67 S
DEPTH=7.5'



TRAILER ESTATES 3
SEWER REHABILITATION
ILLINOIS AVE & IOWA AVE (WEST) PLAN

ORIGINAL SIZE: 11x17

NO.	REVISION DESCRIPTION	BY	DATE
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JOHN S. SHOUN, P.E.
No. 60923
STATE OF FLORIDA
PROFESSIONAL ENGINEER
Signature & Date

NOTE:

1. REPAIR SLEEVE SHALL BE INSTALLED CENTERED ON INDICATED REPAIRS. ALL JOINTS THAT WILL BE COVERED BY A REPAIR SLEEVE SHALL BE GROUT SEALED TO PREVENT WATER INTRUSION.
2. ALL EXISTING MANHOLES LABELED FOR RESTORATION SHALL BE COMPLETELY REHABILITATED FOR STRUCTURAL SOUNDNESS, PREVENT WATER INFILTRATION, AND LINED TO PREVENT FUTURE CORROSION.
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CONTRACTOR SHALL REFERENCE SECTION 14 IN THE CURRENT MANATEE COUNTY UTILITY STANDARDS FOR RECORD DRAWING REQUIREMENTS.



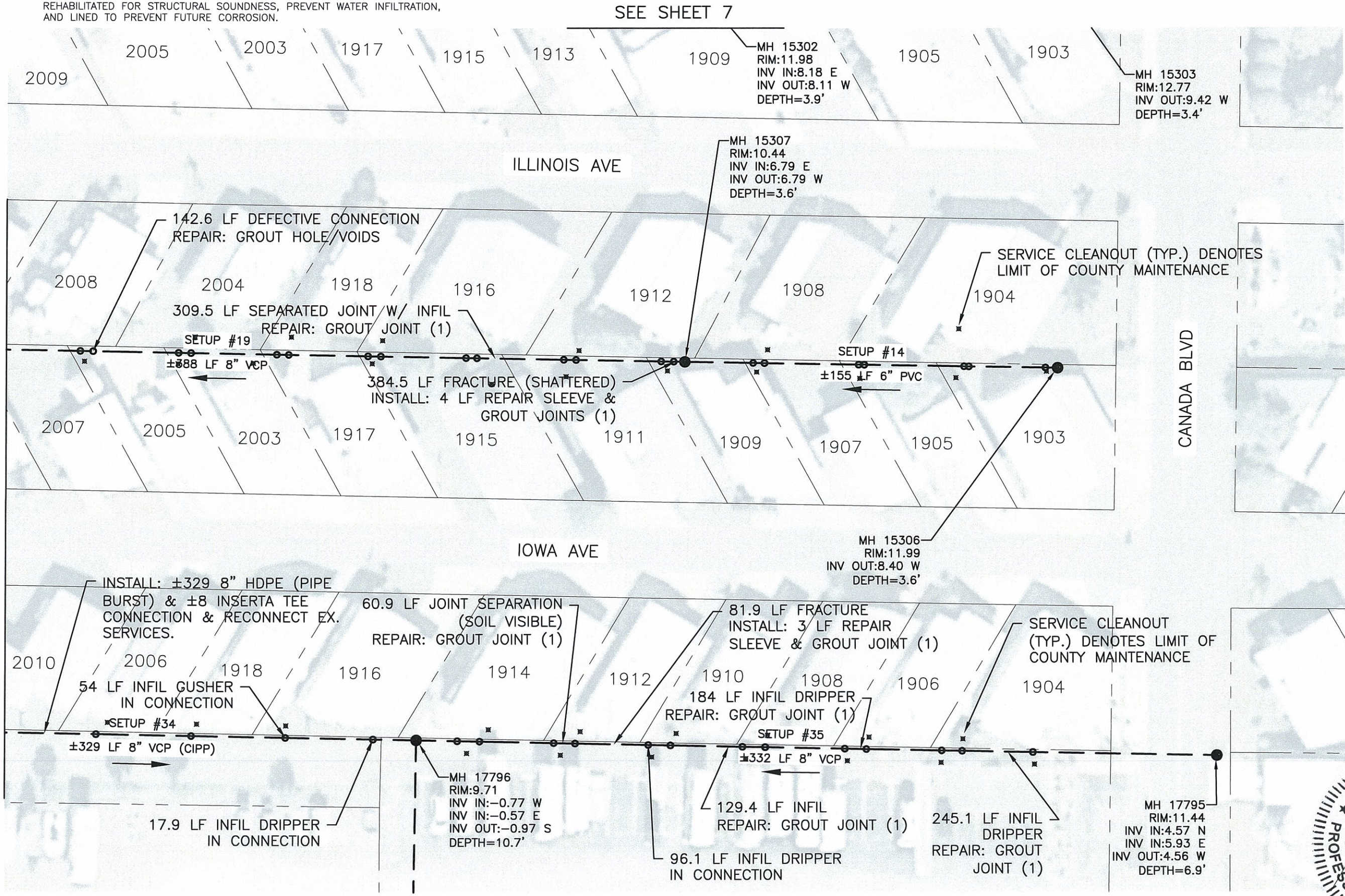
ORIGINAL SIZE: 11x17

TRAILER ESTATES 3

SEWER REHABILITATION

ILLINOIS AVE & IOWA AVE (EAST) PLAN

SEE SHEET 8



NO.	REVISION DESCRIPTION	BY	DATE
PROJECT #	404-6018081		
SURVEY #	6018084		
SEC./TWN./RGE	22/35/17		
SCALE	SEE PLAN		
SURVEYED	BY	DATE	
DESIGNED	JSS	6/2013	
DRAWN	JSS	6/2013	
CHECKED			
JOHN S. SHOUN, P.E.			
FLORIDA P.E. # 60923			
Signature & Date			
SHEET 9			

1. REPAIR SLEEVE SHALL BE INSTALLED CENTERED ON INDICATED REPAIRS. ALL JOINTS THAT WILL BE COVERED BY A REPAIR SLEEVE SHALL BE GROUT SEALED TO PREVENT WATER INTRUSION.

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CONTRACTOR SHALL REFERENCE SECTION 14 IN THE
CURRENT MANATEE COUNTY UTILITY STANDARDS FOR
RECORD DRAWING REQUIREMENTS.

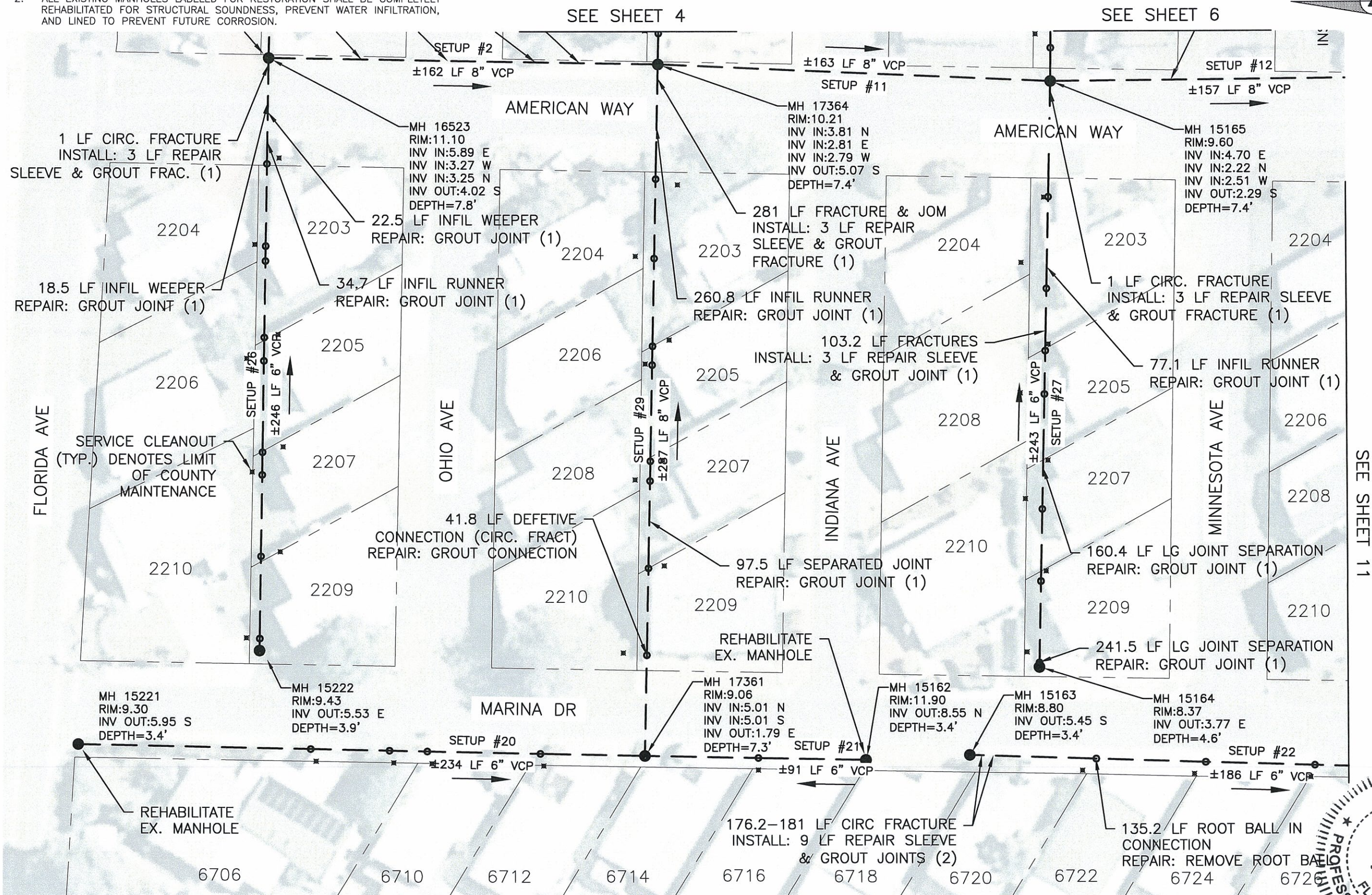


**TRAILER ESTATES 3
SEWER REHABILITATION
MARINA DR (NORTH) PLAN**

ORIGINAL SIZE: 11x17

REVISION DESCRIPTION					BY	DATE
NO.						
PROJECT #					404-801808 / 6018084	
SURVEY #					-	
SEC./TWN./RGE					22/35/17	
SCALE					SEE PLAN	
			BY	DATE		
SURVEYED			-	-		
DESIGNED			JSS	6/2013		
DRAWN			6/2013	6/2013		
CHECKED			-	-		
JOHN S. SHOUN, P.E. FLORIDA P.E. # 60923						
 Signature & Date						
SHEET 10						

SHEET 10



S:\PWD_Engineering_Shore\Util Eng Design\PROJ1--SAN SWR Proj\Trailer Estates Gravity Upgrades\DWGS\active3--Trailer Estates Gravity System.dwg,10 Plan, 8/22/2013 9:47 AM Sheq Shoun, 1:1 Tabloid (11 x 17")

- NOTE:
- REPAIR SLEEVE SHALL BE INSTALLED CENTERED ON INDICATED REPAIRS. ALL JOINTS THAT WILL BE COVERED BY A REPAIR SLEEVE SHALL BE GROUT SEALED TO PREVENT WATER INTRUSION.
 - ALL EXISTING MANHOLES LABELED FOR RESTORATION SHALL BE COMPLETELY

SEE SHEET 6

REHABILITATED FOR STRUCTURAL SOUNDNESS, PREVENT WATER INFILTRATION, AND LINED TO PREVENT FUTURE CORROSION.

- ALL EXISTING UTILITIES (FPL, VERIZON, ETC) ARE GENERALLY LOCATED BEHIND THE MOBILE HOMES AND ADJACENT TO STREETS. CAUTION SHALL BE USED WHEN DIGGING IN THESE GENERAL AREAS.

SEE SHEET 8

CONTRACTOR SHALL REFERENCE SECTION 14 IN THE CURRENT MANATEE COUNTY UTILITY STANDARDS FOR RECORD DRAWING REQUIREMENTS.

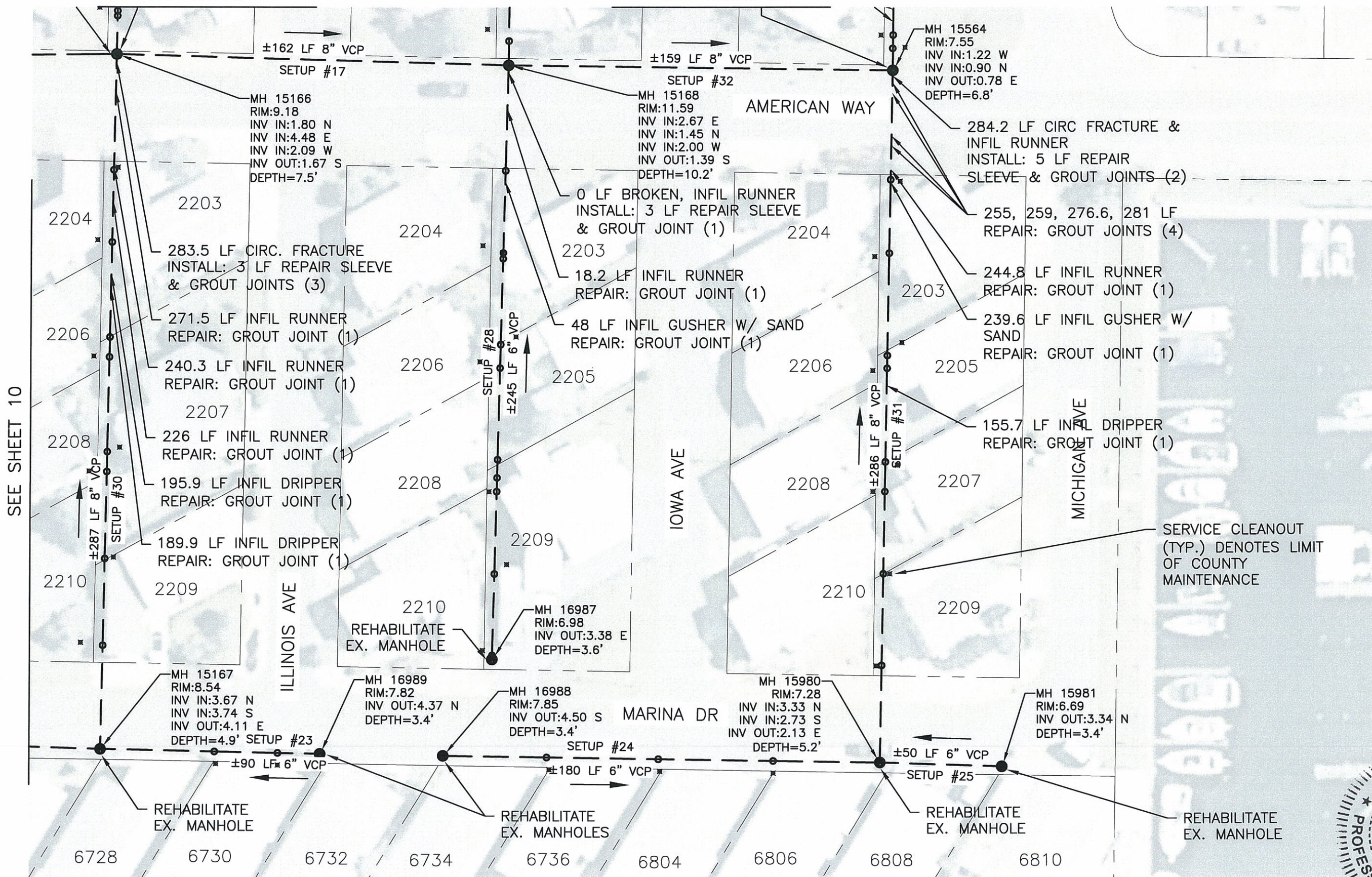
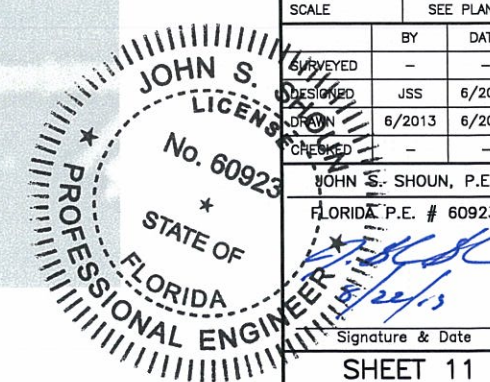


TRAILER ESTATES 3
SEWER REHABILITATION
MARINA DR (SOUTH) PLAN

ORIGINAL SIZE: 11x17

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PROJECT # 404-6018081 / 6018084
SURVEY # -
SEC./TWN./RGE 22/35/17
SCALE SEE PLAN
BY DATE
DESIGNED JSS 6/2013
DRAWN JSS 6/2013
CHECKED -
JOHN S. SHOUN, P.E.
FLORIDA P.E. # 60923
Signature & Date
SHEET 11

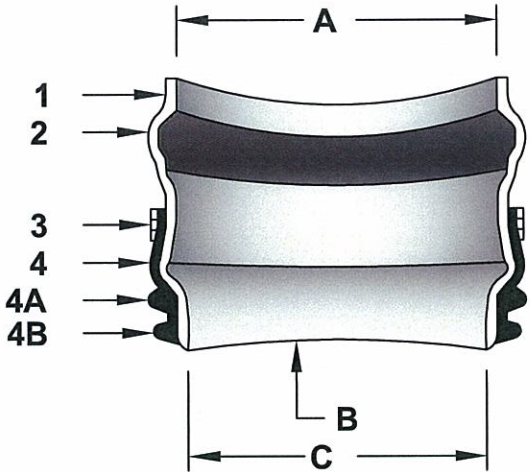


COPYRIGHT 2010 MANATEE COUNTY GOVERNMENT S:\P\W\Engineering_Shoun\Util Eng Design\PROJ\3-SAN SWR Proj\Trailer Estates Grovity Upgrades\DWG5\active3-Trailer Estates Grovity System.dwg, 11:11:17 AM 8/22/2013 8:47 AM Shoun, J.J. 11 x 17"

COPYRIGHT 2010 MANATEE COUNTY GOVERNMENT S:\PMD_Engineering_Shore\Util_Eng_Design\PROJ\SAN_SWR_Proj\Trailer Estates Gravity Upgrades\DWG5\active3-Trailer Estates Gravity System.dwg,12 Details 8/22/2013 9:47 AM Shea Shoun, 1:1, Tablod (11 x 17)

FATBOY, SDR 26, SDR 35 GASKETED BELL GRAVITY APPLICATIONS

- A. BELL END ACCEPTS PIPE WITH SDR 26, SDR 35 AND ASTM D3034 OR EQUIVALENT O.D. SPECIFICATION IN 4" AND 6" SIZES.
- B. CURVATURE VARIES WITH MAINLINE DIAMETERS.
- C. SPIGOT END SDR 26, PVC SDR 35, ASTM D3034 DIAMETERS: 4" AND 6"



PART	PART NAME
1	HUB ADAPTOR
2	RUBBER GASKET
3	SECURING CLAMP*
4	RUBBER SLEEVE (AVAILABLE IN NITRILE AND EPDM BY SPECIAL ORDER)
4A	UPPER SEGMENT**
4B	LOWER SEGMENT***

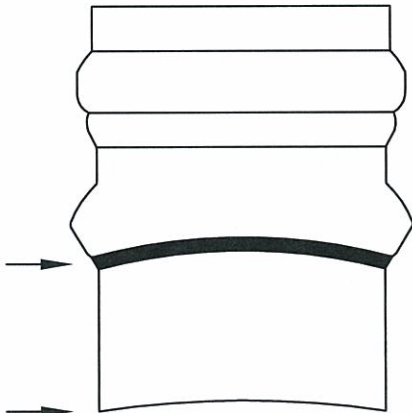
MATERIALS
PVC SDR 26 ASTM D3034
ASTM F477
BAND SS #301
SCREW SS #305
HOUSING SS #301
ASTM F477

* OPTIONAL: #316 STAINLESS STEEL BAND, SCREW AND HOUSING
** DISTANCE BETWEEN 4A AND 4B WILL VARY BY PRODUCT TYPE
*** WILL NOT APPEAR ON RUBBER SLEEVES FOR CONCRETE OR CLAY PIPE

INSERTA TEE SIZE	HOLE DIAMETER
4" (100 mm)	4 1/2" (114 mm)
6" (150 mm)	6 1/2" (165 mm)

BUILT IN STOP
FOLLOWS CONTOUR
OF MAINLINE PIPE
(PATENT PENDING)

CUSTOM MADE TO MATCH
THE INTERIOR RADIUS OF THE
MAINLINE PIPE OR STRUCTURE



NOTE: RECOMMENDED METHOD OF CUTTING HOLE IS WITH HOLE SAW FOR PVC AND OTHER PLASTICS, AND DIAMOND BIT FOR CONCRETES, CLAY, FRP AND D.I. (SEE INSTALLATION INSTRUCTIONS. HOLE SAWS ARE AVAILABLE FOR PURCHASE OR RENT.)



INSERTA TEE | PO BOX 714
CORNELIUS, OR 97113
PH:(503) 357-2110 FAX:(503) 359-5417
SALES@INSERTATEE.COM

FATBOY, SDR 26, SDR 35 GASKETED BELL GRAVITY APPLICATION SPECIFICATIONS	
SCALE:	NTS
DATE:	9/24/2012
DRAWN BY:	KLJ



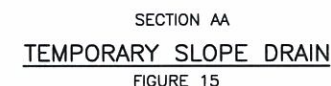
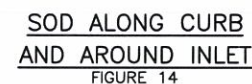
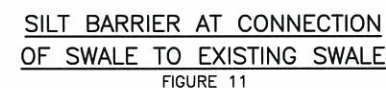
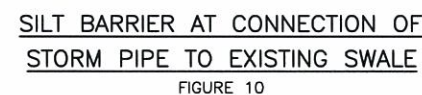
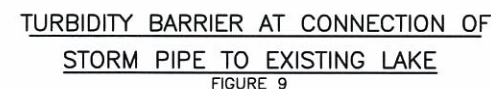
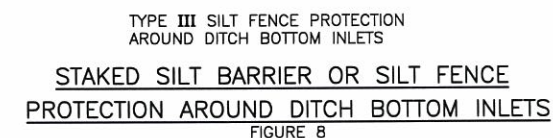
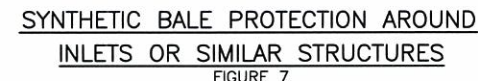
ORIGINAL SIZE: 11x17
TRAILER ESTATES 3
SEWER REHABILITATION
DETAILS

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JOHN S. SHOUN, P.E.
No. 60923
STATE OF FLORIDA
PROFESSIONAL ENGINEER
Signature & Date
SHEET 12



TYPICAL SILT FENCE
FIGURE 2



NOTE:
REFERENCE THE FDOT DESIGN STANDARDS
LATEST EDITION FOR ALL TEMPORARY
EROSION CONTROL MEASURES.

Signature & Date
SHEET 13