CONSTRUCTION PLANS KADMAR PLAZA 14990 STATE ROAD 535, ORLANDO, FL

OWNER/APPLICANT: KADMAR PLAZA, LLC

9027 TAVOLINI TERRACE WINDERMERE, FL 34786 PHONE: 407-421-8971 **CLIENT: MARWAN KADDOURA EMAIL: MARWANKA@AOL.COM**

ARCHITECT: RABITS & ROMANO ARCHITECTURE 5127 S. ORANGE AVENUE, SUITE 110 ORLANDO, FL 32809 PHONE: 407-490-0350 EMAIL: FULVIO@RABITS-ARCHITECT.COM

GEOTECHNICAL: RAAD-TANNOUS ENGINEERING GROUP, INC. 214 N. GOLDENROD ROAD, SUITE A5 ORLANDO, FL 32807 PHONE: 407-382-2415 EMAIL: RTEGINC@AOL.COM

SURVEYOR: ACCURIGHT SURVEYS OF ORLANDO, INC. **2012 EAST ROBINSON STREET ORLANDO, FL 32803 PHONE: 407-894-6314 EMAIL: GERI@ACCURIGHTSURVEYS.NET**

ENVIRONMENTAL BIO-TECH CONSULTING INC. 2002 E ROBINSON STREET ORLANDO, FL 32803 PHONE: 407-894-5969 EMAIL: STEVE@BIO-TECHCONSULTING.COM

PERMITTING AGENCIES ORANGE COUNTY: BUILDING PERMIT ORANGE COUNTY: ENVIRONMENTAL RESOURCE S.F.W.M.D. FDEP: NOI, WATER, SEWER FDOT: DRAINAGE, DRIVEWAY, UTILITY **UTILITY COMPANIES** WATER **ORANGE COUNTY UTILITIES** SEWER **ORANGE COUNTY UTILITIES DUKE ENERGY** ELECTRIC GΔS FLORIDA GAS TRANSMISSION

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GAS		TECO PEOPLES GAS	4(
PHONE	FIBER	AT&T	50
PHONE	FIBER	CENTURYLINK	8'
PHONE	FIBER	CENTRAL FLORIDA EXPRESSWAY AUTHORITY	4(
CABLE		SPECTRUM	4(

PARCEL I.D. No. 34-24-28-5844-00-950 DP-18-06-190

PLAN INDEX



NOT TO SCALE

LEGAL DESCRIPTION:

LOTS 95 AND 96. MUNGER LAND COMPANY'S SUBDIVISION IN SECTIO 4 SOUTH. RANGE 28 EAST. ACCORDING TO THE PLAT RECORDED PLAT BOOK E. PAGE 23. PUBLIC RECORDS OF ORANGE COUNTY, FLORIDA, LESS RIGHT OF WAY OF STATE ROAD 535 AND LESS PART NORTHEAST OF STATE ROAD 535 (FDOT SEC. 75560-2609) AND LESS RIGHT OF WAY OF STATE ROAD 417 (FDO SEC. 97750-2383)

CONTAINS: 207,962 SQUARE FEET OR 4.774 ACRES MORE OR LESS

407-254-9764 407-254-9764 407-905-3321 407-838-7171 07-420-6609 561-997-0240 77-366-8344 07-806-4178 07-532-8509

FEG GROUP

COVER SHEET BOUNDARY, TOPOGRAPHIC & TREE SURVEY LEGEND, NOTES AND SPECIFICATIONS **STORMWATER POLLUTION PREVENTION AND DEMOLITION PLAN STORMWATER POLLUTION PREVENTION PLAN (NOTES AND DETAILS) OVERALL SITE PLAN** SITE GEOMETRY PLAN SITE PAVING, GRADING AND DRAINAGE PLAN SITE UTILITY PLAN **ORANGE COUNTY ASSET TABLE OFFSITE IMPROVEMENTS CROSS SECTIONS CROSS SECTIONS** SITE CONSTRUCTION DETAILS SITE CONSTRUCTION DETAILS **ORANGE COUNTY UTILITIES DETAIL SHEET 1 OF 2 ORANGE COUNTY UTILITIES DETAIL SHEET 2 OF 2 ORANGE COUNTY FIRE TRUCK AUTOTURN PLAN** LIFT STATION SITE LANDSCAPE PLAN AND DETAILS SITE IRRIGATION PLAN **SITE PLAN - PHOTOMETRICS**

NOTE: ANY AND ALL SIGNAGE DEPICTED WITHIN THESE DRAWINGS IS SCHEMATIC NATURE. ANY APPROVAL RECEIVED FOR PERMIT B19902444 DOES NOT CONSTITUTE APPROVAL OF THE CONSTRUCTION OF ANY SIGN/SIGN STRUCTUR COVERED WITHIN ORANGE COUNTY CODE SECTION 31.5 OR ANY APPLICABLE PPROVED SIGN PLAN. ALL PROPOSED SIGNAGE, INCLUDING SIGNAGE TRUCTURES, ARE REQUIRED TO SUBMIT A SEPARATE APPLICATION AND SHAL BE SUBMITTED THROUGH THE BUILDING PERMIT RESIDENTIAL PROCESS FOR REVIEW BY ZONING. BUILDING AND DEVELOPMENT ENGINEERING



5127 S. Orange Avenue, Suite 200 Orlando, FL 32809 Phone: 407-895-0324 Fax: 407-895-0325



www.feg-inc.us

COVER.DWG

	SERVICE AREA NAME: AMERICAN TRAFFIC	UTILITY CO CONTACT: JASON LANG	NTACT LIST PHONE NUMBERS: DAY: 330-696-7252 EMERG: 866-382-8689	UTILITY TYPE: COMMUNICATIONS, ELECTRIC	
	CHARTER COMMUNICATIONS	HELENE HERNANDEZ	DAY: 407-532-8092	CABLE TV, TELEPHONE, FIBER OPTICS	
	FLORIDA HAS TRANSMISSION DAVENPORT	MOLLY CARRIERE	DAY: 713-989-7079 EMERG: 407-397-9230	GAS	(
	DUKE ENERGY		DAY: 800-778-9140		ł
	ORANGE COUNTY UTILITIES WASTE WATER	MARC BROWN	DAY: 407-836-6869 ALT: 321-229-0044	WASTE WATER	
	ORANGE COUNTY PUBLIC WORKS	MATTHEW SHIPLEY	DAY: 407-836-7814 ALT: 321-239-2403	TRAFFIC SIGNALS, FIBER OPTICS	
	CENTRAL FLORIDA EXPRESSWAY AUTHORITY	WILLIAM COLLINS	DAY: 407-832-9626 ALT: 407-690-5056	FIBER OPTICS	
	ORANGE COUNTY UTILITIES	MARC BROWN	DAY: 407-836-6869 ALT: 321-229-0044	WATER	FND 5/8" II LB #676
	ORLANDO TELEPHONE COMPANY, INC.	MICHELLE DANIEL	DAY: 407-996-1183 ALT: 407-998-4611	FIBER OPTICS, TELEPHONE	
	TECO PEOPLES GAS ORLANDO	DEE MACDONALD	DAY: 407-420-6650 ALT: 407-466-7170 EMERG: 877-832-6747	GAS	
	AT&T DISTRIBUTION		DAY: 561-997-0240		
	COMCAST COMMUNICATIONS	USIC DISPATCH	DAY: 800-778-9140 DAY: 800-778-9140	CABLE TV	
	COMMUNICATIONS (ORLANDO) CENTURYLINK WINTER GARDEN	DISPATCH	DAY: 855-742-6062	FIBER OPTICS, TELEPHONE	
					LINE CHART L1 S43°52'44"E 5.97' L2 S09°08'39"E 26.41' L3 S89°50'00"E 3.24'
	TREE CHART 1 - 2-9" PINE 2 - 13" PINE 3 - 11" PINE 4 - 11" PINE 5 - 10" PINE 6 - 8" OAK 7 - 8" OAK 8 - 10" OAK 9 - 8" OAK 10 - 8" OAK 12 - 12" PINE 13 - 12" PINE 13 - 12" PINE 14 - 9" OAK 15 - 13" PINE 16 - 13" PINE 17 - 12" OAK 18 - 12" PINE 19 - 14" PINE 20 - 11" PINE 21 - 15" PINE 22 - 13" PINE 23 - 13" PINE 23 - 13" PINE 24 - 10" PINE 25 - 11" PINE 26 - 20" PINE 27 - 11" PINE 28 - 14" PINE 29 - 12" PINE 30 - 14" PINE 31 - 9" PINE 33 - 11" PINE 33 - 11" PINE 34 - 11" PINE 35 - 8" PINE 35 - 8" PINE 36 - 9" PINE 37 - 12" PINE 38 - 24" PINE 39 - 13" PINE 41 - 15" PINE 41 - 9" PINE	47 - 10" PINE 48 - 12" PINE 50 - 9" PINE 51 - 13" PINE 52 - 12" PINE 53 - 9" PINE 54 - 8" PINE 55 - 12" PINE 56 - 13" PINE 57 - 8" PINE 59 - 25" PINE 60 - 10" PINE 61 - 15" PINE 62 - 15" PINE 63 - 10" PINE 63 - 10" PINE 64 - 13" PINE 65 - 9" PINE 66 - 10" PINE 67 - 9" PINE 68 - 9" PINE 70 - 10" PINE 71 - 11" OAK 72 - 14" PINE 73 - 13" PINE 74 - 13" PINE 75 - 8" PINE 76 - 10" PINE 77 - 9" PINE 78 - 12" PINE 78 - 12" PINE 79 - 12" PINE 79 - 12" PINE 80 - 12" PINE 81 - 13" PINE 72 - 14" PINE 73 - 13" PINE 74 - 13" PINE 75 - 8" PINE 76 - 10" PINE 77 - 9" PINE 78 - 12" PINE 80 - 12" PINE 81 - 13" PINE 81 - 14" PINE	92 - 10" PINE 93 - 10" PINE 94 - 14" PINE 95 - 16" PINE 96 - 13" PINE 97 - 10" PINE 98 - 13" PINE 99 - 14" PINE 100 - 10" PINE 101 - 18" PINE 102 - 8" PINE 103 - 12" PINE 104 - 12" PINE 105 - 8" PINE 106 - 16" PINE 107 - 14" PINE 108 - 8" PINE 109 - 8" PINE 112 - 10" PINE 113 - 10" PINE 114 - 8" PINE 115 - 8" PINE 115 - 8" PINE 115 - 8" PINE 116 - 10" PINE 117 - 10" PINE 118 - 8" PINE 120 - 13" PINE 120 - 13" PINE 121 - 8" PINE 122 - 8" PINE 123 - 8" PINE 124 - 8" PINE 125 - 2-8" PINE 126 - 8" PINE 127 - 8" PINE 128 - 8" PINE 129 - 8" PINE 129 - 8" PINE 130 - 8" PINE 130 - 8" PINE 131 - 8" PINE 132 - 12" PINE 133 - 12" PINE 133 - 12" PINE 134 - 12" PINE 135 - 9" PINE 135 - 9" PINE 136 - 9" PINE 137 - 8" PINE	138 - 8" PINE 139 - 8" PINE 140 - 8" PINE 141 - 8" PINE 142 - 9" PINE 143 - 8" PINE 144 - 12" PINE 145 - 13" PINE 146 - 10" PINE 147 - 8" PINE 148 - 9" PINE 149 - 9" PINE 150 - 9" PINE 150 - 9" PINE 151 - 9" PINE 152 - 8" PINE 153 - 10" PINE 155 - 12" PINE 156 - 12" PINE 157 - 12" PINE 158 - 8" PINE 159 - 9" PINE 160 - 9" PINE 161 - 12" PINE 162 - 12" PINE 163 - 8" PINE 163 - 8" PINE 164 - 8" PINE 165 - 12" PINE 166 - 11" PINE 167 - 8" PINE 168 - 13" OAK 169 - 11" PINE 170 - 8" MAPLE 171 - 8" MAPLE 173 - 21" PINE 174 - 8" PINE 175 - 8" PINE 176 - 8" PINE 177 - 8" PINE 177 - 8" PINE 178 - 8" PINE 179 - 9" PINE 180 - 8" PINE 179 - 9" PINE 182 - 9" PINE	TRACT "A" CONSERVATION AREA WORLD GATEWAY PHASE 2 PB 42, PG 93-95
BB BC BPC CALC C&M A CBW CCC CALC C&M CCP CHW CCF CHW CCF CHW CCF CHW CCF CHW CCF CCP CW D&M DE SC OP CON CON CON CON CON CON CON CON CON CON	- BOTTOM OF BANK DW - D - BACK OF CURB - E - BACK FLOW PREVENTER EN - BLOCK EI - BLOCK EI - BURIED POWER CABLE ESMT - E - CALCULATED FIRM - F - CALCULATED FIRM - F - CALCULATED & MEASURED R - CALCULATED & MEASURED R - CONCRETE BLOCK WALL - FH - F - CONCRETE BLOCK WALL - FH - F - CONCRETE BLOCK WALL - FH - F - CONCRETE FLUME FOC - F - CONCRETE HEAD WALL OFP - F - CONCRETE HEAD WALL OFP - F - CHAIN LINK FENCE -G- G - CONCRETE MONUMENT - G - CONCRETE M	LECGEND RIVEWAY ASEMENT NUMBER LECTRICAL BOX LECTRICAL BOX ASSEMENT NA OCTO ASSEMENT OCTO ASSEMENT OCTO LECTRICAL BOX LECTRICAL BOX LECTRICAL BOX ASSEMENT NA OCTO LECTRICAL BOX LECTRICAL BOX ASSEMENT NA OCTO LECTRICAL BOX ASSEMENT NA OCTO LECTRICAL BOX ASSEMENT NA ASSEMENT ASSEMENT ASSEMENT ASSEMENT ASSEMENT ASSEMENT ASSEMENT ASSEMENT ASSEMENT	 METAL FENCE METAL LID METAL SHED MITERED END SECTION MONITORING WELL NORTH AMERICAN VERTICAL DATUM NOT TO SCALE OVERHEAD ELECTRIC VERTICAL DATUM OVERHEAD ELECTRIC OVERHEAD ELECTRIC OVERHEAD WIRE PLAT BOOK PAGE POINT OF INTERSECTION M PLAT & MEASURED POINT OF REVERSE CURVATURE PAGESIONAL SURVEYOR AND MAPPER POINT OF TANGENCY CURVE RADIUS 	RCP - REINFORCED CONCRETE PIPE RWW - RIGHT OF WAY Image: SANITARY MANHOLE - S -S - SANITARY LINE SDO - SHOWN FOR DIRECTION ONLY SW - SIGN SWF - STOCK WIRE FENCE x00.00 - SPOT ELEVATION -SD- - STORM/DRAIN LINE - SEWER VALVE Image: STORM MANHOLE -T- - UNDERGROUND TELEPHONE Image: STORM INLET - STORM INLET TB - TOP OF BANK Image: TRAFFIC SIGN Image: STORM INLET TB - TOP OF BANK Image: STORM INLEN Image: STORM INLEN Image: STORM INLEN Image: STORM INLEN Image: STOR STORM INLINE Image: STOR STOR	FND 4"X4" CM LB #2108
	ACCUR	GHT	THIS SURVEY ME REQUIRED BY CH SURVEYORS, PUF FLORIDA STATUTE	EETS THE "STANDARDS OF PRACTICE" AS APTER 5J-17 FLORIDA BOARD OF LAND RSUANT TO SECTION 472.027 OF THE S. Digital Signer:IGC CA 1 DN:CN=RONALD K SMITH, OU=A01427E00001661FAA E8A70003AE8, O=Unaffiliated, C=US Date:2018.12.03	

12:07:43 -05:00

RONALD K. SMITH, PSM 5797

"NOT VALID WITHOUT THE ORIGINAL SIGNATURE AND SEAL OF THIS

FLORIDA LICENSED SURVEYOR AND MAPPER." -OR-

AUTHORIZED BY RONALD K. SMITH, PSM 5797.

THE DIGITAL SEAL APPEARING ON THIS DOCUMENT WAS

S:\ORANGE\OCE-23 - MUNGER'S\95 & 96\OCE-23 LOT 95-96-EMAIL.dwg - Dec 03, 2018

ACCURIGHT SURVEYS OF ORLANDO INC., LB 4475

2012 E. Robinson Street, Orlando, Florida 32803

www.AccurightSurveys.net

ACCU@AccurightSurveys.net

PHONE: (407) 894-6314



VICINITY MAP (NOT TO SCALE)

LEGAL DESCRIPTION

LOTS 95 AND 96, MUNGER LAND COMPANY'S SUBDIVISION IN SECTION 34, TOWNSHIP 24 SOUTH, RANGE 28 EAST, ACCORDING TO THE PLAT RECORDED IN PLAT BOOK E, PAGE 23, PUBLIC RECORDS OF ORANGE COUNTY, FLORIDA, LESS RIGHT OF WAY OF STATE ROAD 535 AND LESS PART NORTHEAST OF STATE ROAD 535 (FDOT SEC. 75560-2609) AND LESS RIGHT OF WAY OF STATE ROAD 417 (FDOT SEC. 97750-2383).

CONTAINS: 207,962 SQUARE FEET OR 4.774 ACRES MORE OR LESS.

NOTES

1. BEARING STRUCTURE IS BASED ON THE MONUMENTED EAST LINE OF TRACT "A", WORLD GATEWAY PHASE 2, AS RECORDED IN PLAT BOOK 42, PAGES 93-95, BEING: N01°37'57"E (PER PLAT).

2. THIS SURVEY REFLECTS ONLY MATTERS OF RECORD AS PROVIDED BY THE CLIENT OR CLIENTS REPRESENTATIVE.

3. THIS SURVEY WAS MADE ON THE GROUND. THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AS LOCATED BY SUNSHINE UTILITIES LOCATING SERVICE TICKET NO. 143801863 AND EXISTING DRAWINGS. THE SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH HE DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES.

4. THIS LOT LIES ENTIRLY IN ZONE "A", BASED ON FLOOD INSURANCE RATE MAP NO. 12095C0605F, COMMUNITY NO. 120179, ORANGE COUNTY, FLORIDA, EFFECTIVE SEPTEMBER 25, 2009.

5. ACCORDING TO FLORIDA STATUTES, CHAPTER 472.025, A LAND SURVEYOR SHALL NOT AFFIX HIS SEAL OR NAME TO ANY PLAN OR DRAWING WHICH DEPICTS WORK WHICH HE IS NOT LICENSED TO PERFORM OR WHICH IS BEYOND HIS PROFESSION OR SPECIALTY THEREIN. THEREFORE, WE ARE UNABLE TO CERTIFY AS TO MUNICIPAL ZONING COMPLIANCE, INTERPRETATION OF ZONING CODES OR THE DETERMINATION OF VIOLATIONS THEREOF.

6. THIS SURVEY MADE WITHOUT BENEFIT OF COMMITMENT FOR TITLE.

7. THIS SURVEY IS VALID ONLY FOR THE PARTIES TO WHOM IT IS CERTIFIED.

8. THIS SURVEY EXCEEDS THE ACCURACY REQUIREMENTS SET FORTH IN FLORIDA STATUTES.

9. ELEVATIONS BASED ON NGS (NATIONAL GEODETIC SURVEY) BENCHMARK #D-628 HAVING AN ELEVATION OF 107.93 FEET, (NAVD 88).

10. TREE LOCATIONS SHOWN PER ORANGE COUNTY ORDINANCE 15-301(e).

W -		E O'	GRAPI 20' 40' 1'	HIC S	CALE 80'	120'
	5			14	4-082	
			SHEET N	^{10.} C	-2	
			SHEET	2	оғ 22	
BOU		RY SURV	FY ΠΔΤ	F٠	8-2	24-14
per 5J-1	7.051	(3)(b)3 Florida	Administra	L. tive Co	ode	
DATE:	JOB #		REVISION			BY:
7/25/2018	48477	ADDITIONAL TOP	OGRAPHY IN ARE	A SPECIF	IED BY CLIEN	T AAD
9/13/2018	49734		RESURVEY OF T	REES		AAD
В	OUNI	DARY, TOPOC	GRAPHIC 8	د TREE	E SURVE	ΞY
SCALE: 1" =	40'				IOB #40025	
FIELD DATE:	8-24-14		D LUT 32-30-EIVIA		DRAWN BY: G	ilT
PREPARED F	OR:	MARWAN	KADDUR	A		
LOCATION:	14990 ST	ATE ROAD 535, ORLA	NDO, FLORIDA.		SUBDIVIS	ION NAME: NGERS

Survey.dwg COPYRIGHT © 1986 - 2018, ACCURIGHT SURVEYS

G	ENERAL NOTES:	
<u> </u>	THESE GENERAL NOTES APPLY TO ALL WORK IN THIS SET OF DRAWINGS.	WATER &
2.	IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR(S) TO ENSURE THAT ALL REQUIRED PERMITS ARE OBTAINED AND ARE IN HAND AT THE JOB SITE PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. CONTRACTOR SHALL ABIDE BY ALL CONDITIONS CONTAINED THEREIN.	1. CONTRACTOR SHAL ALL MATERIAL AND
3.	THE SPECIFICATIONS, NOTES, AND PLANS CALL ATTENTION TO CERTAIN REQUIRED FEATURES OF THE CONSTRUCTION BUT DO NOT PURPORT TO COVER ALL DETAILS OF DESIGN AND CONSTRUCTION. HOWEVER, THE CONTRACTOR SHALL FURNISH & INSTALL THE WORK IN ALL DETAILS	INSPECTION AND A 2. CONTRACTOR SHAL
1.	AND READY FOR OPERATION. ALL EQUIPMENT SHALL BE HANDLED, STORED, INSTALLED, TESTED, AND OPERATED IN STRICT ACCORDANCE WITH THE APPLICABLE	WORKING DAYS NO THE BUILDING) ANI TESTS. CONTRACT EXPENSE
5.	ALL WORK SHALL BE ACCOMPLISHED TO THE HIGHEST QUALITY CRAFTSMANSHIP STANDARDS AS APPROVED BY THE ENGINEER.	3. ENGINEER RESERVE (OBSERVED BY EN
5.	ALL WORK SHALL BE ACCOMPLISHED IN STRICT ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL CODES, ORDINANCES AND REGULATIONS.	4. SITE CONTRACTOR
7.	APPARENT ERRORS, DISCREPANCIES, OR OMISSIONS ON THE DRAWINGS SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION BEFORE BIDDING.	6. CONTRACTOR SHALL WATER MAINS, FITT
3.	AFTER COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL PERFORM SITE CLEAN-UP OPERATIONS FOR REMOVAL OF ALL TRASH, DEBRIS, EXCESS MATERIAL, AND EQUIPMENT. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PRESENT THE PROJECT SITE CLEAN AND IN GOOD ORDER AT THE TIME OF FINAL ACCEPTANCE.	 7. SITE UTILITY WORK 8. CONTRACTOR SHAL RECEIVED BY THE
J.	THE CONTRACTOR SHALL COMPLY WITH ALL RULES, REGULATIONS, AND SPECIFICATIONS OF ORANGE COUNTY FOR SHE IMPROVEMENT IN THE ABSENCE OF A PARTICULAR REQUIREMENT.	F.D.E.P. C
0	ANY EXCAVATION IN ANY PUBLIC OR PRIVATE STREET, ALLEY, OR RIGHT-OF-WAY DEDICATED TO THE PUBLIC USE, OR GAS UTILITY EASEMENT WITHOUT FIRST OBTAINING INFORMATION CONCERNING THE POSSIBLE LOCATION OF GAS PIPELINES IN THE AREA OF THE PROPOSED EXCAVATION." THIS INCLUDES ANY OPERATION UTILIZING HAND TOOLS OR POWER TOOLS WHICH MOVES OR REMOVES ANY STRUCTURE, EARTH, ROCK, OR OTHER MASS OF MATERIAL BY SUCH METHODS AS DIGGING, BACKFILLING, DEMOLITION, GRADING, DITCHING, DRILLING, BORING, AND CABLE PLOWING. THE EXCAVATOR MUST NOTIFY THE GAS UTILITY A MINIMUM OF 48 HOURS AND A MAXIMUM OF 5 DAYS PRIOR TO EXCAVATION (EXCLUDING SATURDAYS, SUNDAYS, AND LEGAL HOUDAYS)	UTILITY SEPARATION – 1. NEW OR RELOCATE GRAVITY –OR VACU ABOVE THE OTHER INCLUDED IN THIS
1	. CONTRACTOR SHALL NOTIFY ALL APPROPRIATE UTILITY COMPANIES OF PROPOSED START OF WORK IN ACCORDANCE WITH THEIR STANDARD REQUIREMENTS: INCLUDING BUT NOT LIMITED TO WATER, SEWER, POWER, TELEPHONE, GAS, AND CABLE TV COMPANIES.	FORCE MAIN, OR F BELOW THE OTHER
2	ANY DIFFERING SITE CONDITIONS FROM THAT WHICH IS REPRESENTED HEREON, WHETHER ABOVE, ON, OR BELOW THE SURFACE OF THE GROUND, SHOULD BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ENGINEER AND OWNER IN WRITING. NO CLAIM FOR EXPENSES INCURRED BY THE CONTRACTOR DUE TO DIFFERING SITE CONDITIONS WILL BE ALLOWED IF CONTRACTOR FAILS TO PROVIDE THE REQUIRED WRITTEN NOTIFICATION OF SUCH CONDITIONS FOR REVIEW BY THE ENGINEER AND OWNER.	2. AT THE UTILITY CR THE OTHER PIPELIN SO THAT ALL WATE FORCE MAINS, OR ALL JOINTS IN GR/ REGULATED UNDER
3	THE CONTRACTOR SHALL FURNISH OWNER WITH ACCURATE RECORD DRAWINGS PREPARED BY A LICENSED PROFESSIONAL SURVEYOR SHOWING AS-CONSTRUCTED HORIZONTAL AND VERTICAL DIMENSIONING OF THE WORK. THE SUBMITTAL COPY OF THE RECORD DRAWINGS WILL NOT BE RETURNED. THE RECORD DRAWING OR A REPRODUCIBLE COPY PREPARED BY THE ENGINEER SHALL BE CERTIFIED BY THE CONTRACTOR AS CORRECT. ALL INFORMATION WHICH IS UNCHANGED AND CURRENT SHALL BE NOTED BY CHECKING OFF OR CIRCLING. ALL REVISED INFORMATION SHALL BE CROSSED THROUGH AND NEW DATA ADDED. ADDITIONAL REQUIREMENTS ARE NOTED IN PAVING, GRADING, DRAINAGE, WATER, AND SEWER NOTES.	UTILITY SEPARATION H 1. NEW OR RELOCATE THREE FEET BETWE STORM SEWER, STO HORIZONTAL DISTAN GRAVITY-TYPE SAN
4	ALL PRIVATE AND PUBLIC PROPERTIES AFFECTED BY THIS WORK SHALL BE RESTORED TO A CONDITION EQUAL TO OR BETTER THAN EXISTED UNLESS SPECIFICALLY EXEMPTED BY THE PLANS. THE COST FOR SUCH RESTORATION SHALL BE INCIDENTAL TO OTHER CONSTRUCTION AND NO EXTRA COMPENSATION WILL BE ALLOWED.	OUTSIDE OF ANY <u>INCHES ABOVE THE</u> OUTSIDE OF ANY E NOT REGULATED U WATER MAIN AND ,
5	THE CONTRACTOR SHALL FOLLOW THE GEOTECHNICAL ENGINEER'S RECOMMENDATIONS IN PREPARING THE SITE FOR CONSTRUCTION; THIS INCLUDES REMOVAL OF ANY EXISTING ORGANIC SOILS, DELETERIOUS MATERIAL, VEGETATION, AND/OR DEBRIS FROM WITHIN THE CONSTRUCTION AS IDENTIFIED BY THE GEOTECHNICAL ENGINEER; PROOFROLLING OF THE NATURAL SOILS WHERE REQUIRED; AND OTHER GENERAL SITE PREPARATION REQUIREMENTS. SPECIFIC PROOFROLLING COMPACTION REQUIREMENTS SHOULD BE CONSISTENT WITH THE APPLICABLE DESIGN DOCUMENTS AND GEOTECHNICAL ENGINEER'S RECOMENDATIONS. IF THERE IS A CONFLICT BETWEEN THE GEOTECHNICAL ENGINEER'S RECOMMENDATIONS AND THE DESIGN DOCUMENTS, THE MORE STRINGENT REQUIREMENT SHALL APPLY.	 2. THE CONTRACTOR S WITH THE ORANGE WITH AWWA MANU 3. THE CONTRACTOR APPROVAL THEREO DESENSION UTX TO
G	EOMETRY NOTES:	JOB SITE AT ALL T "DISINFECTING WAT
2.	THESE PLANS ARE BASED ON A SURVEY PREPARED FOR THE OWNER BY ACCURIGHT SURVEYS OF ORLANDO, INC. AND DATED 08/24/2014. REFER TO SHEET C-2 FOR REFERENCED BENCHMARK.	1. THE PERMITTEE SH
3.	CONTRACTOR SHALL STAKE ALL IMPROVEMENTS USING THE GEOMETRIC DATA PROVIDED. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO COMPLETELY STAKE & CHECK ALL IMPROVEMENTS TO ENSURE ADEQUATE POSITIONING, BOTH HORIZONTAL & VERTICAL, PRIOR TO THE INSTALLATION OF ANY IMPROVEMENTS. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IF ANY APPARENT DISCREPANCIES ARE FOUND.	2. POTABLE WATER PI 3. POTABLE PIPES WI RESPECTIVELY.
1. 5.	ALL DIMENSIONS ARE TO THE FACE OF CURB OR EDGE OF PAVEMENT, UNLESS OTHERWISE NOTED. CONTRACTOR SHALL VERIFY THE ACCURACY OF THE BUILDING GEOMETRY SHOWN WITH THAT IN THE FINAL ARCHITECTURAL DRAWINGS, PRIOR TO STAKE-OUT, & SHALL NOTIFY OWNER & ENGINEER IMMEDIATELY OF ANY DISCREPANCIES.	A. POTABLE WATER B. DUCTILE IRON F FLANGED PIPE
Л	<u>ARKING, STRIPING, & SIGNAGE NOTES:</u>	C. PVC (WITH NATI 1. AWWA C900/ 2. AWWA C905
•	ALL MARKINGS MUST COMPLY WITH THE F.D.O.T. ROADWAY & TRAFFIC DESIGN STANDARDS, MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION, AND THE ORANGE COUNTY LAND DEVELOPMENT CODE. PARKING SPACES MAY BE F.D.O.T. RATED PAINT. ALL OTHER MARKINGS MUST BE THERMOPLASTIC.	3. PRESSURE F USED FOR EITH
<u>.</u> .	HANDICAP PARKING SPACES SHALL BE PROPERLY SIGNED AND STRIPED IN ACCORDANCE WITH FLORIDA STATUTE 316, THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND OTHER APPLICABLE STANDARDS. REFER TO F.D.O.T. ROADWAY & TRAFFIC DESIGN STANDARDS INDEX 17355 FOR HANDICAP SYMBOL.	D. POLYETHYLENE E. POLYETHYLENE F. FIRE HYDRANTS
,. P	AVING GRADING & DRAINAGE NOTES.	G. METERS PER AV E. NON-AWWA PVC THE NSF MARK
•	ALL CONSTRUCTION, INCLUDING SIDEWALKS, SHALL BE IN ACCORDANCE WITH ORANGE COUNTY CONSTRUCTION SPECIFICATIONS AND OTHER	CONNECTION TO EX
<u>)</u> .	SPECIFICATIONS FOR ROAD & BRIDGE CONSTRUCTION, UNLESS STATED OTHERWISE IN THE SPECIFICATIONS OR ON THE PLANS. SUBSURFACE INFORMATION PROVIDED WITH THESE DRAWINGS WAS OBTAINED FOR USE IN ESTABLISHING DESIGN CRITERIA FOR THE PROJECT. THE ACCURACY OF THIS INFORMATION IS NOT GUARANTEED AND IS NOT TO BE CONSTRUED AS PART OF THE PLANS GOVERNING	1. IF CONNECTION (20 POUNDS PER A. PRECAUTIONAR
5.	CONSTRUCTION OF THE PROJECT. THE LOCATIONS OF EXISTING UTILITIES AND STORM DRAINAGE SHOWN ON THE PLANS HAVE BEEN DETERMINED FROM THE BEST INFORMATION AVAILABLE AND ARE GIVEN FOR THE CONVENIENCE OF THE CONTRACTOR. ENGINEER ASSUMES NO RESPONSIBILITY FOR INACCURACY. PRIOR	WATER UNLESS WATER QUALITY B. IN CASES OF
	LOCATIONS AND FOR ANY RELOCATIONS OF THE VARIOUS EXISTING UTILITIES WITH THE UTILITY OWNERS, WHICH SHALL BE DONE IN A TIMELY FASHION TO MINIMIZE IMPACT ON THE CONSTRUCTION SCHEDULE. ANY DELAY OR INCONVENIENCE CAUSED THE CONTRACTOR BY THE RELOCATION OF THE VARIOUS UTILITIES SHALL BE INCIDENTAL TO THE CONTRACT AND NO EXTRA COMPENSATION WILL BE ALLOWED.	IN WATER QUAN
	ALL FILL MATERIAL IN GENERAL IMPROVEMENT AREAS SHALL BE COMPACTED TO A MINIMUM OF 95% OF THE SOIL'S MODIFIED PROCTOR MAXIMUM DRY DENSITY AS DETERMINED BY AASHTO T-180. SPECIFIC SITE PREPARATION METHODS, TYPE OF FILL TO BE USED FOR PARKING AND BUILDING AREAS, AND COMPACTION SHALL BE IN ACCORDANCE WITH THE GEOTECHNICAL ENGINEER'S RECOMMENDATIONS (SEE GEOTECHNICAL REPORT PREPARED BY RAAD-TANNOUS ENGINEERING GROUP, INC.; PROJECT NO. 214-1023) REFER TO STRUCTURAL, ARCHITECTURAL, AND GEOTECHNICAL DOCUMENTS FOR ANY WORK RELATED TO BUILDINGS AND OTHER VERTICAL ELEMENTS FOR SPECIFIC SITE IMPROVEMENT AND FILL REQUIREMENTS. THIS PLAN ONLY COVERS SITE RELATED IMPROVEMENTS AND INFRASTRUCTURE. REFER TO PAVEMENT SECTION DETAILS FOR MATERIAL AND COMPACTION REQUIREMENTS OF PAVEMENT SUBGRADE.	MATERIAL PAVING. GRADING.
ò.	ALL UNDERGROUND UTILITIES INCLUDING CONDUIT FOR ELECTRICAL, CABLE TV, AND TELEPHONE SHALL BE INSTALLED PRIOR TO PAVEMENT CONSTRUCTION.	2. STORM DRAINS
). 7.	CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY PROBLEMS REQUIRING DEVIATION FROM THESE PLANS AND SPECIFICATIONS. THE CONTRACTOR SHALL SUBMIT DETAILED SHOP DRAWINGS OF ALL MAJOR ITEMS PROPOSED FOR THIS PROJECT TO THE ENGINEER PRIOR TO ORDERING ANY OF THE EQUIPMENT. UPON THE CONTRACTOR'S RECEIPT OF APPROVED SHOP DRAWINGS FROM THE ENGINEER, THE CONTRACTOR MAY PROCEED WITH THE WORK	3. ALL STORM STRU INLETS IN PAVEL FOUR SIDES. GF
8.	ALL DISTURBED AREAS MUST BE SODDED, UNLESS OTHERWISE NOTED ON THE PLANS. ALL SODDING MUST BE DONE IN ACCORDANCE WITH SECTION 570 OF THE FLORIDA DEPARTMENT OF TRANSPORTATION'S STANDARD SPECIFICATIONS FOR ROAD & BRIDGE CONSTRUCTION, LATEST EDITION.	4. ALL TYPE "P" S
).	PROVIDE HANDICAP ACCESS WHERE SIDEWALKS MEET CURBS.	F.D.O.T.
E	ROSION CONTROL NOTES:	1. ALL WORK PFRF
	ALL EROSION AND SEDIMENT CONTROL WORK SHALL CONFORM WITH ORANGE COUNTY SPECIFICATIONS, SUBJECT TO AUTHORIZED AND	STANDARDS, 201

APPROVED VARIANCES, WAIVERS AND/OR CONDITIONAL CHANGES.

EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE PLACED PRIOR TO OR AS THE FIRST STEP IN CONSTRUCTION. SEDIMENT CONTROL PRACTICES WILL BE APPLIED AS A PERIMETER DEFENSE AGAINST ANY TRANSPORTATION OF SILT OFF THE SITE. CONTRACTOR SHALL SUBMIT AN EROSION CONTROL PLAN AT THE PRE-CONSTRUCTION MEETING. THE CONTRACTOR SHALL USE BEST MANAGEMENT PRACTICES IN CONTROLLING EROSION AND SEDIMENTATION DURING CONSTRUCTION.

. ALL CLEARED AREAS FOR IMPROVEMENT AND/OR CONSTRUCTION SHALL BE WATERED TO PREVENT WIND EROSION.

PRIOR TO LAND CLEARING THE CONTRACTOR SHALL PROVIDE TREE PROTECTION BARRIERS TO MEET THE REQUIREMENTS OF ORANGE COUNTY. THE CONTRACTOR SHALL SELECTIVELY CLEAR ONLY THE AREAS REQUIRED FOR CONSTRUCTION AND STABILIZE ANY POTENTIAL EROSION AREAS IMMEDIATELY FOLLOWING COMPLETION OF CONSTRUCTION.

				CONSTRUCTION PLANS
				KADMAR PLAZA
8/2/2019	2 REVISED PER F.D.O.T. COMMENTS	CPN	GRC	14990 STATE ROAD 535, ORLA
07/29/2019	REVISED PER COUNTY AND SFWMD COMMENTS	CPN	GRC	
DATE	REVISIONS	BY	CHECKED	

SEWER UTILITY NOTES:

L COORDINATE WITH **ORANGE COUNTY UTILITIES** AND FOR CONSTRUCTION OF THE WATER AND SEWER SYSTEMS, RESPEC WORKMANSHIP SHALL CONFORM TO THEIR SPECIFICATIONS AND REQUIREMENTS, AS APPLICABLE AND WILL BE SUBJECT TO THEIR CCEPTANCE.

COORDINATE ALL WATER AND SEWER SYSTEM TEST SCHEDULING TO ALLOW ENGINEER'S ATTENDANCE AND PROVIDE FIVE (5) DTICE OF WATER (PRESSURE TESTING OF WATER AND FIRE LINES FROM POINT OF CONNECTION TO THE EXISTING WATER MAIN TO ID SEWER (LIFT STATION START-UP. LOW PRESSURE AIR TEST OF SEWER LINES FROM BUILDING TO MANHOLE AND LAMPING) TOR'S FAILURE TO PROPERLY NOTIFY ENGINEER MAY RESULT IN RETESTING AT ENGINEER'S OPTION AND AT CONTRACTOR'S

ES THE RIGHT TO WITHHOLD APPROVAL FOR ANY PORTION OF THE WATER OR SEWER PIPE WORK WHICH HAS NOT BEEN TESTED NGINEER) AND REPORTED TO CONFORM TO PROJECT SPECIFICATIONS. SHALL COORDINATE AND VERIFY ALL UTILITY SERVICES WITH FINAL ARCHITECTURAL DRAWINGS AND BUILDING CONTRACTOR.

L VERIFY SIZE AND TYPE OF EXISTING MAIN PRIOR TO ORDERING TAPPING MATERIALS FOR TIE-INS. MAINTAIN A SET OF RECORD DRAWINGS MARKED UP WITH HORIZONTAL AND VERTICAL AS-BUILT INFORMATION ON LOCATION OF

TINGS, AND WATER SERVICES LOCATED FROM CENTERLINE OF NEAREST FIRE HYDRANT OR NEAREST MANHOLE SHALL TERMINATE 5 FEET FROM BUILDINGS UNLESS OTHERWISE STATED.

NOT ACTIVATE WATER SERVICE UNTIL THE FDEP HAS CLEARED THE SYSTEM FOR USE AND THE CLEARANCE LETTER HAS BEEN

CONSTRUCTION NOTES:

VERTICAL CLEARANCE:

ED, UNDERGROUND WATER MAINS THAT ARE INCLUDED IN THIS PROJECT AND THAT WILL CROSS ANY EXISTING OR PROPOSED UUM— TYPE SANITARY SEWER OR STORM SEWER SHALL BE LAID SO THE OUTSIDE OF THE WATER MAIN IS AT LEAST SIX INCHES R PIPELINE OR AT LEAST 12" BELOW THE OTHER PIPELINE; AND NEW OR RELOCATED, UNDERGROUND WATER MAINS THAT ARE PROJECT AND THAT WILL CROSS ANY EXISTING OR PROPOSED PRESSURE-TYPE SANITARY SEWER, WASTEWATER OR STORMWATER PIPELINE CONVEYING RECLAIMED WATER SHALL BE LAID SO THE OUTSIDE OF THE WATER MAIN IS AT LEAST 12 INCHES ABOVE OR PIPFI INF

ROSSINGS DESCRIBED ABOVE, ONE FULL LENGTH OF WATER MAIN PIPE SHALL BE CENTERED ABOVE OR BELOW INE SO THE WATER MAIN JOINTS WILL BE AS FAR AS POSSIBLE FROM THE OTHER PIPELINE <u>OR</u> THE PIPES SHALL BE ARRANGED IER MAIN JOINTS ARE AT LEAST THREE FEET FROM ALL JOINTS IN VACUUM-TYPE SANITARY SEWERS, STORM SEWERS, STORMWATER R PIPELINES CONVEYING RECLAIMED WATER REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C., AND AT LEAST SIX FEET FROM AVITY- OR PRESSURE-TYPE SANITARY SEWERS, WASTEWATER FORCE MAINS, OR PIPELINES CONVEYING RECLAIMED WATER NOT PART III OF CHAPTER 62-610, F.A.C.

HORIZONTAL SEPARATION:

ED, UNDERGROUND WATER MAINS INCLUDED IN THIS PROJECT SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST WEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED VACUUM-TYPE SANITARY SEWER, TORMWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER REGULATED UNDER PART III CHAPTER 62-610, F.A.C.; A ANCE OF AT LEAST SIX FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED IITARY SEWER (OR A HORIZONTAL DISTANCE OF AT LEAST THREE FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE EXISTING OR PROPOSED GRAVITY-TYPE SANITARY SEWER IF THE BOTTOM OF THE WATER MAIN WILL BE LAID AT LEAST (6") SIX <u>HE TOP OF THE SEWER</u>: A HORIZONTAL DISTANCE OF AT LEAST SIX FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE EXISTING OR PROPOSED PRESSURE-TYPE SANITARY SEWER, WASTEWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER UNDER PART III OF CHAPTER 62-610, F.A.C.; AND A HORIZONTAL DISTANCE OF AT LEAST TEN FEET BETWEEN THE OUTSIDE OF THE ALL PARTS OF ANY EXISTING OR PROPOSED "ON-SITE SEWAGE TREATMENT AND DISPOSAL SYSTEM.

SHALL PERFORM HYDROSTATIC TESTING OF ALL NEWLY-INSTALLED WATER DISTRIBUTION SYSTEM IN ACCORDANCE COUNTY UTILITIES & IN ACCORDANCE WITH AWWA STANDARD C600 FOR DUCTILE-IRON PIPE. TESTING SHALL BE IN ACCORDANCE JAL M23 FOR PVC PIPE.

SHALL DISINFECT ALL SECTIONS OF THE WATER DISTRIBUTION SYSTEM IN ACCORDANCE WITH THE F.D.E.P. WATER PERMIT, & RECEIVE F FROM THE LOCAL WATER UTILITY, ENGINEER OF RECORD, & F.D.E.P., PRIOR TO PLACING IN SERVICE. IT IS THE CONTRACTOR'S O OBTAIN COPIES OF THE F.D.E.P. WATER & SEWER PERMITS FROM THE PERMITS FROM THE OWNER & MAINTAIN THEM ON THE TIMES. DISINFECTION OF THE WATER DISTRIBUTION SYSTEM SHALL SYSTEM SHALL BE PERFORMED IN ACCORDANCE WITH AWWA 651 TER MAINS". SHALL BE PERFORMED IN ACCORDANCE WITH AWWA 651 "DISINFECTING WATER MAINS".

HALL BE SEPARATELY RESPONSIBLE FOR APPROPRIATE CONSTRUCTION, DISINFECTION & TESTING BEYOND THE METER TO ASSURE E POINT OF USE.

PIPES WILL BE DISINFECTED IN ACCORDANCE WITH AWWA SPECIFICATIONS C651.

ILL BE HYDROSTATICLY TESTED IN ACCORDANCE WITH SPECIFICATION NUMBERS C600 & C605/M23 FOR DUCTILE IRON & PVC PIPES, PIPES MUST BE MANUFACTURED IN ACCORDANCE WITH THE FOLLOWING AWWA SPECIFICATIONS:

PIPE (3" TO 64") - AWWA C150/AWWA C151; LINING PER AWWA C104, COATING PER AWWA C116, ENCASEMENT PER AWWA C105, PER ÀWWA C115, GASKET JOINTS PER AWWA C111 AND FITTINGS PER AWWA C110 OR AWWA C153.

TIONAL SANITATION FOUNDATION SEAL) /ASTM 1784 (4" TO 12") WITH DR25 MINIMUM; 5 (14" TO 48")

RATED PIPE (SDR SERIES) SHALL BE ASTM D2241, SCHEDULE 40, 80, & 120 PVC PIPES PER ASTM D1785. THE COMPOUNDS HER OF THESE TYPES SHALL BE PER ASTM D1784.

PIPE (1/2" - 3") – AWWA C901 WITH VALVES & FITTINGS (AWWA C800);

PIPE (4" - 63") - AWWA C906.

& VALVES PER AWWA SERIES C500 THROUGH C560.

WWA SERIES C700 THROUGH C710.

PIPES (ALLOWED ONLY FOR SIZES LESS THAN 4 INCHES) MUST HAVE A MINIMUM PRESSURE CLASS OF 200 PSI AND MUST BEAR ON EACH INSTALLED LENGTH

ISTING WATER MAINS:

OF THE PROPOSED ACTIVITY TO THE WATER MAIN WILL RESULT IN DEPRESSURIZATION OF THE EXISTING SYSTEM BELOW SQUARE INCH, ONE OF THE FOLLOWING MUST OCCUR:

RY BOIL WATER NOTICES MUST BE ISSUED IN CASES OF PLANNED DISTRIBUTION INTERRUPTIONS, WHICH DEEMED AN LIC HEALTH THREAT BY THE <u>D.E.P.</u> CENTRAL DISTRICT OR WILL AFFECT BACTERIOLOGICAL QUALITY OF THE DRINKING THE PUBLIC WATER SYSTEM CAN DEMONSTRATE, BY SOUND ENGINEERING JUDGMENT, THAT THE INTEGRITY OF THE ARE EXPECTED TO OCCUR & NOT DEEMED AN IMMINENT PUBLIC HEALTH RISK. BRIEF INTERRUPTION IN SERVICE, ADVISORIES (NOT BOIL WATER NOTICES) SHOULD BE ISSUED IF TEMPORARY CHANGES ALITY ARE EXPECTED TO OCCUR & NOT DEEMED AN IMMINENT PUBLIC HEALTH RISK.

IAINS:

POSED WATER MAINS FROM EXISTING WATER MAINS WILL BE DONE IN ACCORDANCE WITH AWWA SPECIFICATIONS C651.

SPECIFICATIONS:

& DRAINAGE:

ALS SHALL CONFORM WITH F.D.O.T. STANDARDS & SPECIFICATIONS FOR ROAD & BRIDGE CONSTRUCTION, LATEST EDITION. SHALL BE REINFORCED CONCRETE PIPE, PER ASTM C-76 CLASS III, UNLESS OTHERWISE SPECIFIED. LIFTING HOLES ARE

RUCTURES SHALL CONFORM WITH F.D.O.T. STANDARD INDEX DRAWINGS & SPECIFICATIONS EXCEPT THAT DITCH BOTTOM D AREAS SHALL HAVE TRAVERSABLE, TRAFFIC BEARING, GRATES SUPPORTED BY STEEL ANGLE SEATS OR SUPPORTED ON RATES SHALL BE CAST IRON UNLESS BICYCLE TRAFFIC IS ANTICIPATED.

STRUCTURE BOTTOMS SHALL BE ROUND UNLESS OTHERWISE SPECIFIED & SHALL HAVE 4 FEET MINIMUM DIAMETER.

NOTES:

FORMED WITHIN F.D.O.T. RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH THE 2019-20 EDITIONS OF F.D.O.T. DESIGN 19 SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, AND THE 2017 UTILITY ACCOMMODATIONS MANUAL. 2. ALL SIDEWALK CONSTRUCTION IS ADA COMPLIANT

MATERIAL SPECIFICATIONS:

PAVING MATERIALS SHALL CONFORM WITH F.D.O.T. STANDARDS & SPECIFICATIONS FOR ROAD & BRIDGE CONSTRUCTION, LATEST EDITION. STORM DRAINS SHALL BE REINFORCED CONCRETE PIPE, PER ASTM C-76 CLASS III, UNLESS OTHERWISE SPECIFIED. LIFTING HOLES ARE

- PROHIBITED.

WATER MATERIAL:

SPECIAL NOTICE:

ALL WATER MATERIAL USED IN THE CONSTRUCTION OF THE WATER DISTRIBUTION SYSTEM SHALL ADHERE TO THE REQUIREMENTS OUTLINED IN THE ORANGE COUNTY MANUAL OF STANDARDS & SPECIFICATIONS. THE FOLLOWING INFORMATION IS TO PROVIDE GENERAL GUIDANCE IN THE PREPARATION OF CONSTRUCTION PLANS AND SPECIFICATIONS, AND IN NO WAY LIMITS ORANGE COUNTY'S RIGHTS TO APPROVE OR DISAPPROVE PLANS, SPECIFICATIONS, OR INSTALLATIONS.

<u>PVC PIPE</u>

- INCHES MAY BE AWWA STANDARD C900, DR 18 OR PVC PIPE WITH A STANDARD DIMENSION RATIO (SDR) OF 21.
- ANSI/AWWA A21.53/C153.
- C. PVC PIPE SHALL HAVE INTEGRAL BELL PUSH ON TYPE JOINTS CONFORMING TO ASTM D3139.
- DUCTILE IRON PIPE
- DRAWINGS, OR REQUIRED BY THE COUNTY.
- ANSI/AWWA A21.53/C153.
- GREEN FOR RAW WATER AND BLUE FOR FINISHED WATER.
- ASPHALTIC MATERIAL IN ACCORDANCE WITH ANSI/AWWA A21.4/C104.
- ACCORDANCE WITH ANSI/AWWA A21.51/C151.
- SERVICE PIPE, STOPS, FITTINGS, & SERVICE SADDLES
- C901.
- THE METER SIZE AND CONFORM TO THE SPECIFICATIONS IN AWWA C800 AND AWWA C901.
- COMPATIBLE POLYETHYLENE TUBING CONNECTIONS.
- CORROSION RESISTANT ALLOY STEEL.
- STEEL HARDWARE IN AREAS DESIGNATED AS CORROSIVE.

SEWER MATERIAL:

<u>SPECIAL NOTICE:</u>

LL SANITARY SEWER MATERIAL USED IN THE CONSTRUCTION OF THE SANITARY SEWER SYSTEM SHALL ADHERE TO THE REQUIREMENTS OUTLINED IN THE ORANGE COUNTY MANUAL OF STANDARDS & SPECIFICATIONS. THE FOLLOWING INFORMATION IS TO PROVIDE GENERAL GUIDANCE IN THE PREPARATION OF CONSTRUCTION PLANS AND SPECIFICATIONS, AND IN NO WAY LIMITS ORANGE COUNTY'S RIGHTS TO APPROVE OR DISAPPROVE PLANS, SPECIFICATIONS, OR INSTALLATIONS.

- PVC GRAVITY SEWER PIPE
- PIPE ASSOCIATION STANDARD IS UNI-B-4.
- D3212 AND ASTM F477. APPLICABLE UNI-BELL PLASTIC PIPE ASSOCIATION STANDARD IS UNI-B-7.
- HAVE MARKINGS INDICATING THE MINOR AXIS OF THE ELLIPTICAL REINFORCEMENT.
- JOINTS MATERIALS
- A. PVC SEWER PIPE JOINTS SHALL BE FLEXIBLE ELASTOMERIC SEALS PER ASTM D 3212.

<u>FITTINGS</u>

- SHALL BE OF THE SAME MATERIAL AS THE PIPE.

35, ORLANDO, FL



5127 S. Orange Avenue, Suite 200 Orlando, FL 32809 Phone: 407-895-0324 Fax: 407-895-0325

LEGEND, NOTES AND SPECIFICATIONS

DESIGNED BY	DRAWN BY	CHECKED E
CPN	CPN	GRC

ALL STORM STRUCTURES SHALL CONFORM WITH F.D.O.T. STANDARD INDEX DRAWINGS & SPECIFICATIONS EXCEPT THAT DITCH BOTTOM INLETS IN PAVED AREAS SHALL HAVE TRAVERSABLE, TRAFFIC BEARING GRATES SUPPORTED BY STEEL ANGLE SEATS OR SUPPORTED ON FOUR SIDES. GRATES HSALL BE CAST IRON UNLESS BICYCLE TRAFFIC IS ANTICIPATED.

ALL TYPE "P" STRUCTURE BOTTOMS SHALL BE ROUND UNLESS OTHERWISE SPECIFIED AND SHALL HAVE 4 FEET MINIMUM DIAMETER.

A. ALL PVC PIPE OF NOMINAL DIAMETER SIX (6) THROUGH TWELVE (12) INCHES SHALL BE MANUFACTURED IN ACCORDANCE WITH AWWA STANDARD C900, LATEST EDITION. THE PVC SHALL HAVE A MINIMUM WORKING PRESSURE RATING OF 150 PSI AND SHALL HAVE A DIMENSION RATIO (DR) OF 18. PIPE SHALL BE THE SAME O.D. AS DUCTILE IRON PIPE. PVC PIPE OF NOMINAL DIAMETER FOUR (4)

3. ANY FITTINGS REQUIRED SHALL BE MECHANICAL JOINT DUCTILE IRON OR GRAY IRON CONFORMING TO ANSI/AWWA A21.10/C110, 250 PSI MINIMUM PRESSURE RATING, OR DUCTILE IRON COMPACT FITTINGS FOUR (4) THROUGH TWELVE (12) INCHES IN ACCORDANCE WITH

A. ALL DUCTILE IRON PIPE OF NOMINAL DIAMETER FOUR (4) THROUGH FIFTY FOUR (54) INCHES SHALL CONFORM TO ANSI/AWWA A21.51/C151. A MINIMUM OF CLASS 50 PIPE SHALL BE SUPPLIED FOR ALL SIZES OF PIPE UNLESS SPECIFICALLY CALLED OUT IN THE

B. ANY FITTINGS REQUIRED SHALL BE MECHANICAL JOINT DUCTILE IRON OR GRAY IRON CONFORMING TO ANSI/AWWA A21.10/C110, 250 PSI MINIMUM PRESSURE RATING, OR DUCTILE IRON COMPACT FITTINGS FOUR (4) THROUGH TWELVE (12) INCHES IN ACCORDANCE WITH

. JOINTS FOR DUCTILE IRON PIPE AND FITTING JOINTS SHALL BE PUSH-ON OR MECHANICAL JOINTS CONFORMING TO ANSI/AWWA A21.11/C111, WHERE CALLED FOR IN THE PLANS, RESTRAINED OR FLANGED JOINTS SHALL BE PROVIDED. FLANGED JOINTS SHALL CONFORM TO ANSI STANDARD B16.1-125LB. RESTRAINED JOINTS SHALL CONFORM TO SECTIONS 34.3 AND 34.4.

WHERE DUCTILE IRON PIPE AND FITTINGS ARE TO BE BELOW GROUND OR INSTALLED IN A CASING PIPE, THE COATING SHALL BE A MINIMUM 1.0 MIL THICK IN ACCORDANCE WITH ANSI/AWWA A21.51/C151. WHERE DUCTILE IRON PIPE AND FITTINGS ARE TO BE INSTALLED ABOVE GROUND, PIPE FITTINGS AND VALVES SHALL BE THOROUGHLY CLEANED AND GIVE ONE FIELD COAT (MINIMUM 1.5 MILS DRY THICKNESS PRIMER. INTERMEDIATE AND FINISHED FIELD COATS OF ALKYD SHALL ALSO BE APPLIED BY THE CONTRACTOR (MINIMUM 1.5 MILS DRY THICKNESS EACH COAT). PRIMER AND FIELD COASTS SHALL BE APPLIED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. REFER TO COUNTY MANUAL FOR APPROVED MANUFACTURERS. FINAL FIELD COAST SHALL BE

ALL DUCTILE IRON PIPE AND FITTINGS SHALL HAVE AN INTERIOR PROTECTIVE LINING OF CEMENT-MORTAR WITH A SEAL COAT OF

THE PIPE SHALL BE POLYETHYLENE ENCASES (8 MILS) WHERE SHOWN ON THE DRAWINGS OR REQUIRED BY THE COUNTY IN

A. ALL SERVICE LINES SHALL BE 1", 1-1/2", OR 2" POLYETHYLENE TUBING CONFORMING TO SPECIFICATIONS IN AWWA C800 AND AWWA

B. CORPORATION STOPS SHALL BE 1", 1-1/2". OR 2" BRASS, EQUIPPED WITH CONNECTIONS COMPATIBLE WITH THE POLYETHYLENE CURB STOPS SHALL BE SIZE4D TO MATCH ICATIONS IN AWWA C800 AND C901.

. FITTINGS SHALL BE BRASS, CAST, AND MACHINED IN ACCORDANCE WITH SPECIFICATIONS IN AWWA C800 AND AWWA C901, WITH

D. A SERVICE SADDLE SHALL BE USED FOR ALL SERVICE LINE TAPS. SERVICE SADDLES SHALL BE DOUBLE STRAP, ANCHORED BY A MINIMUM FOUR (4) BOLT PATTERN ON A DUCTILE IRON SADDLE BODY. SERVICE SADDLES FOR PVC PIPE SHALL HAVE THE DOUBLE STRAP SIZED EXACTLY TO THE PIPE OUTSIDE DIAMETER. SEALING GASKETS SHALL BE A BUNA-N RUBBER AND STRAPS SHALL BE

E. THE COUNTY MAY REQUIRE A STAINLESS STEEL STRAP AND FUSION EPOXY OR NYLON COATED DUCTILE IRON BODY WITH STAINLESS

A. PVC GRAVITY SEWER PIPE (6"-8"), ASTM D3034, SDR 26. UNIFORM MINIMUM "PIPE STIFFNESS" AT FIVE (5) PERCENT DEFLECTION SHALL BE 46 PSI. THE JOINTS MANUFACTURED IN ACCORDANCE WITH ASTM D3212 AND ASTM F477. APPLICABLE UNI-BELL PLASTIC

B. PVC GRAVITY SEWER PIPE (18"-27"), ASTM F679, SDR35. UNIFORM MINIMUM "PIPE STIFFNESS" AT FIVE (5) PERCENT DEFLECTION SHALL BE 46 PSI. THE JOINTS SHALL BE INTEGRAL BELL ELASTOMERIC GASKET JOINTS MANUFACTURED IN ACCORDANCE WITH ASTM

C. ALL PVC PIPE SHALL BEAR THE NSF-DW SEAL. THE MINIMUM STANDARD LENGTH OF PIPE SHALL BE THIRTEEN (13) FEET.

ALL PIPE SHALL HAVE A HOMING MARK ON THE SPIGOT PROVIDED BY THE MANUFACTURER. ON FIELD CUT PIPE, CONTRACTOR SHALL PROVIDE HOMING MARK ON THE SPIGOT IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS. REINFORCED CONCRETE PIPE SHALL

APPROVED BY

GRC

B. JOINTS BETWEEN PIPES OF DIFFERENT MATERIALS SHALL BE MADE WITH A FLEXIBLE MECHANICAL COMPRESSION COUPLING WITH NO. 304 STAINLESS STEEL BANDS. REFER TO ORANGE COUNTY MANUAL FOR APPROVED MANUFACTURERS' LIST.

A. UNLESS OTHERWISE SPECIFIED, WYE BRANCHES SHALL BE PROVIDED IN THE GRAVITY SEWER MAIN FOR SERVICE LATERAL CONNECTIONS. WYES SHALL BE SIX (6) INCHES INSIDE DIAMETER, UNLESS OTHERWISE APPROVED BY ORANGE COUNTY. ALL FITTINGS

B. PLUGS FOR STUB OUTS SHALL BE OF THE SAME MATERIAL AS THE PIPE, AND GASKETED WITH THE SAME GASKET MATERIAL AS THE PIPE JOINT, OR BE OF MATERIAL APPROVED BY ORANGE COUNTY. THE PLUG SHALL BE SECURED TO WITHSTAND TEST PRESSURES SPECIFIED IN THE ORANGE COUNTY MANUAL OF STANDARDS AND SPECIFICATIONS FOR WASTEWATER CONSTRUCTION.

14-082

NOTED

JULY 29, 2019

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of 22

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		LEGEND
, LATEST EDITION.		
FTING HOLES ARE		PULE SIGN SMALL PYLON SIGN
DITCH ВОТТОМ		LARGE PYLON SIGN
SUPPORTED ON	¥	RIGHT TURN DIRECTIONAL ARROW
LIM DIAMETER	+	STRAIGHT DIRECTIONAL ARROW
	F	LEFT TURN DIRECTIONAL ARROW
	1	STRAIGHT AND LEFT TURN DIRECTIONAL ARROW
	\rightarrow	STRAIGHT AND RIGHT TURN
EMENTS OUTLINED RAL GUIDANCE IN	L.	HANDICAP PARKING SYMBOL
APPROVE OR		F.D.O.T. TYPE "D" CURB
		F.D.O.T. TYPE "F" CURB AND GUTTER
ANCE WITH AWWA		GATE VALVE BOX, WV= WATER, FV=FIRE,
SHALL HAVE A	- <u>×</u> ××	CHAINLINK FENCE
LIER FOUR (4)		DECORATIVE WOOD OR ALUMINUM FENCE
21.10/C110, 250	- 0 * 0 * 0 -	BARB WIRE FENCE
ACCORDANCE WITH		HANDRAIL
		SCREEN/RETAINING WALL, AS NOTED.
		BIKE RACK
	(#)	PARKING COUNT SYMBOL PER ROW
ALLED OUT IN THE		NO 02 DDAINIAOC
21.10/0110 250	GRADII	NG & DRAINAGE
ACCORDANCE WITH		F.D.O.T. TYPE "C" DRAINAGE INLET
		F.D.O.T. TYPE "D" DRAINAGE INLET
ANSI/AWWA IOINTS SHALL		F.D.U.I. TYPE "E" DRAINAGE INLET
		F.U.U.I. ITPE I URAINAGE INLEI F.D.O.T. TYPE "2" DRAINAGE INLET
IG SHALL BE A RE TO BE		F.D.O.T. TYPE "3" DRAINAGE INLET
T (MINIMUM 1.5		F.D.O.T. TYPE "4" DRAINAGE INLET
ACT CHALL DE		F.D.O.T. TYPE "5" DRAINAGE INLET
UAST SHALL BE		F.D.O.T. TYPE "6" DRAINAGE INLET
SEAL COAT OF	SD	STORM DRAINAGE MANHOLE
		MITERED END SECTION
OUNTY IN		STORM DRAINAGE PIPE
	(S-1)	DRAINAGE STRUCTURE BUBBLE
	ELEV. HI ELEV. LO	GRADE ELEVATION
COUD AND AWWA	90	CONTOUR ELEVATION
	- 	EROSION CONTROL SILT FENCE
IZEAD TO MATCH		
C901, WITH		
CHORED BY A		DCDA – DOUBLE CHECK DETECTOR ASSEMBLY
E THE DOUBLE	NIN	DCVA – DOUBLE CHECK
		RPZ – REDUCED PRESSURE
WITH STAINLESS	โพโ	ZONE DEVICE
		IRRIGATION METER
		GATE VALVE
		BLOW-OFF GATE VALVE
KEQUIKEMEN IS /IDE GENERAL		REDUCER
S RIGHTS TO	(W)	WET WELL
) H	11.25° PIPE BEND
	4	22.5° PIPE BEND
UNI-BELL PLASTIC	~	30° PIPE BEND
NT DEFLECTION	<u>~</u>	45° PIPE BEND
DANCE WITH ASTM	۲ .	60° PIPE BEND
3) FEET.	ц	90° PIPE BEND
NTRACTOR SHALL	д	TEE
ICRETE PIPE SHALL	н т і	CROSS
		FIRE HYDRANT ASSEMBLY W/ UNORSTRUCTED AREA
	(\bullet)	CLEARANCES AS REQUIRED BY FIRE MARSHALL
JPLING WITH NO		FIRE DEPARTMENT CONNECTION
	•	CLEAN OUT
		LIFT STATION
	00	GREASE TRAP
DINTI. ALL FITTINGS	()—□	SITE LIGHTING
MATERIAL AS THE	\$	DECORATIVE SITE LIGHTING
EST MRESSURES	ب	UILIII FULE
IIS ITEM HAS BEEN ELECTR SIGNED AND SEALED E	ONICALLY 3Y:	FLORIDA STEINEERING GROUP INC.
GREGORY R. CRAWFORD	0, P.E.	ES: No 51335



GeneralNotes.dwg

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			FND	4"x4" cM N89°47'13"W_236.39' N
				2108 J. N89°50'00"VV 236.75" C
				N89°50'00"V
				CONSTRUCTION
8/2/2019 2 REVISED PER F.D.O.T. COMMENTS		CPN	GRC	KADMAR PL 14990 STATE ROAD 53
07/29/2019 REVISED PER COUNTY AND SFWMD	COMMENTS	CPN BY	GRC CHECKED	



AZA 5, ORLANDO, FL



5127 S. Orange Avenue, Suite 200 Orlando, FL 32809 Phone: 407-895-0324 Fax: 407-895-0325

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STORMWATER POLLUTION PREVENTION SCALE AND DEMOLITION PLAN

DESIGNED BY	DRAWN BY	CHECKED
CPN	CPN	GRC



LICENSE NO. 51335 Plans.dwg

неет 4

EROSION CONTROL SITE DESCRIPTION NOTES:

- 1. THE PROPOSED CONSTRUCTION ACTIVITY WILL ENTAIL THE CLEARING & GRUBBING OF A 4.774 ACRE SITE LOCATED AT 14990 STATE ROAD 535, ORLANDO, FL ITS ASSOCIATED PARKING, DRAINAGE & UTILITIES.
- 2. THE SEQUENCE OF SOILS DISTURBANCE ACTIVITY IS AS FOLLOWS:
- A. INSTALL SILT FENCE AS SHOWN ON THE PLANS & PROVIDE TREE PROTECTION ON SITE, IF APPLICABLE.
- B. ROUGH GRADE PROPOSED POND AREA(S) OR TEMPORARY SEDIMENTATION BASIN(S).
- C. CLEAR & GRUB THE AREA TO BE DISTURBED. ENSURE THAT DRAINAGE FROM SITE DURING CONSTRUCTION IS CONVEYED TO THE POND(S) OR TEMPORARY SEDIMENTATION BASIN(S).
- D. PLACE FILL ON-SITE TO BRING THE SITE UP TO THE PROPOSED GRADES.
- E. BEGIN COMPACTION / STABILIZATION PROCESS.
- 3. THE TOTAL SITE AREA IS 4.774± ACRES & THE AREA TO BE DISTURBED IS 2.92± ACRES.
- 4. THE EXISTING SOIL IS 42-SANIBEL MUCK, 43-SEFFNER FINE SAND, 0 TO 2 PERCENT SLOPES. THE QUALITY OF THE STORMWATER DISCHARGE IS CONSISTENT W/ THE RUNOFF GENERATED BY A COMMERCIAL SITE.
- 5. THE TOTAL DRAINAGE AREA FOR THE PROJECT IS APPROXIMATELY 2.92 ACRES.
- 6. THE LATITUDE & LONGITUDE FOR THE DISCHARGE POINTS IS LAT: 28°21'02" N LONG: 81°29'35" W. THE RECEIVING WATER BODY IS A RETENTION POND DESIGNED TO RECEIVE STORMWATER RUNOFF, THEN EVENTUALLY DISCHARGES TO REEDY CREEK.
- 7. WASTE DISPOSAL SHALL BE IMPLEMENTED IN ACCORDANCE WITH LOCAL, STATE & FEDERAL REGULATIONS. ALL TRUCKS EXITING THE SITE WILL BE HOSED, ITS LOAD COVERED and THE COVER PROPERLY SECURED. THE STORAGE, APPLICATION, GENERATION & MIGRATION OF ALL FERTILIZERS, HERBICIDES, PESTICIDES & TOXIC MATERIAL SHALL BE IN ACCORDANCE W/ LOCAL, STATE & FEDERAL REGULATIONS.
- 8. CONTRACTOR SHALL IDENTIFY THE INDIVIDUAL(S) RESPONSIBLE FOR THE WEEKLY & REQUIRED INSPECTIONS. A REPORTING SYSTEM ENTAILING THE ITEMS TO BE INSPECTED & THEIR CONDITION SHOULD BE DOCUMENTED & PLACED IN A DEDICATED FILING SYSTEM THAT WILL REMAIN ON THE PROJECT SITE. ACCESSIBLE TO THE CONSTRUCTION TEAM & TO THE F.D.E.P. INSPECTORS.
- 9. INSPECTIONS: CONSTRUCTION SITE WILL BE INSPECTED FOR EROSION PROBLEMS DAILY AND AFTER AFTER EACH RAINFALL GREATER THAN 0.5 INCH. A RAIN GAUGE WILL BE ON SITE TO MEASURE THE RAINFALL AMOUNT.

EROSION CONTROL NOTES:

- 1. THE CONTRACTOR SHALL COMPLY WITH ALL FEDERAL, STATE, & LOCAL CODES, ORDINANCES, & REGULATIONS GOVERNING POLLUTION OF THE ENVIRONMENT & SHALL IMPLEMENT ALL MEASURES NEEDED TO ENSURE ADEQUATE EROSION & SEDIMENT CONTROL DURING THE ENTIRE DURATION OF CONSTRUCTION. EROSION & SEDIMENT CONTROL MEASURES SHALL CONFORM TO ORANGE COUNTY, FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION, & FLORIDA DEPARTMENT OF TRANSPORTATION REQUIREMENTS. INSTALLATION OF SILT FENCES & TURBIDITY BARRIERS SHALL BE IN ACCORDANCE WITH F.D.O.T. ROADWAY & TRAFFIC DESIGN STANDARDS & STANDARD SPECIFICATIONS FOR ROAD & BRIDGE CONSTRUCTION, LATEST EDITION.
- 2. EROSION & SEDIMENT CONTROL MEASURES ARE TO BE PLACED PRIOR TO OR AS THE FIRST STEP IN CONSTRUCTION. EROSION & SEDIMENT CONTROL MEASURES ARE TO BE APPLIED AS A PERIMETER DEFENSE AGAINST THE TRANSPORTATION OF SILT & SEDIMENTS OFF THE PROJECT SITE OR INTO ADJACENT WATER BODIES OR WETLANDS.
- 3. THE CONTRACTOR SHALL PREPARE & IMPLEMENT AN EROSION CONTROL PLAN AS PART OF THE SCOPE OF WORK COVERED BY THESE PLANS. THE CONTRACTOR SHALL USE BEST MANAGEMENT PRACTICES IN CONTROLLING EROSION & SEDIMENT TRANSPORT DURING CONSTRUCTION. THE FLORIDA DEVELOPMENT MANUAL "A GUIDE TO SOUND LAND & WATER MANAGEMENT" MAY BE USED AS REFERENCE FOR RECOMMENDED BEST MANAGEMENT PRACTICES RELATED TO EROSION & SEDIMENT CONTROL.
- 4. THE CONTRACTOR SHALL SUBMIT THE EROSION CONTROL PLAN TO THE OWNER FOR APPROVAL PRIOR TO THE PRE-CONSTRUCTION MEETING.
- 5. ALL EROSION & SEDIMENT CONTROL MEASURES WHICH ARE NECESSARY TO LIMIT THE TRANSPORT OF SILTS & SEDIMENTS TO OUTSIDE THE LIMITS OF THE WORK AREA OR TO WATER BODIES OR WETLANDS ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL PROVIDE BEST MANAGEMENT PRACTICES & IMPLEMENT STRUCTURAL MEASURES AS NEEDED TO PREVENT EROSION & SEDIMENT TRANSPORT FROM THE WORK AREAS. THE FOLLOWING ARE MINIMUM RECOMMENDED GUIDELINES TO BE IMPLEMENTED DURING CONSTRUCTION AS PART OF THE EROSION & SEDIMENT CONTROL PLAN:
- A. STOCKPILING OF MATERIAL
- NO EXCAVATED MATERIAL SHALL BE STOCKPILED IN SUCH A MANNER AS TO DIRECT RUNOFF DIRECTLY OFF THE PROJECT SITE OR INTO ANY ADJACENT WATER BODY OR STORMWATER COLLECTION FACILITY.
- B. EXPOSED AREA LIMITATION & PROTECTION THE SURFACE AREA OF OPEN, RAW ERODIBLE SOIL EXPOSED BY CLEARING & GRUBBING OPERATIONS OR EXCAVATION & FILLING OPERATIONS SHALL BE LIMITED AS NEEDED TO MINIMIZE THE POTENTIAL OF OFF-SITE SEDIMENT TRANSPORT. ALL EXPOSED AREAS SHALL BE PROTECTED BY INSTALLING EFFECTIVE EROSION & SEDIMENT CONTROL MEASURES SUCH AS SILT SCREENS, SYNTHETIC BALES, TURBIDITY BARRIERS, SWALES, OR A COMBINATION OF THESE & OTHER MEASURES AS WARRANTED.
- C. INLET PROTECTION
- INLETS & CATCH BASINS SHALL BE PROTECTED DURING CONSTRUCTION FROM SEDIMENT LADEN STORMWATER RUNOFF BY PROVIDING A COMBINATION OF SILT SCREENS, SYNTHETIC BALES, FILTER FABRIC COVERS OR OTHER MEASURES AS NECESSARY TO CONTROL THE TRANSPORT OF SEDIMENT.
- D. TEMPORARY GRASSING

AREAS OPENED BY CONSTRUCTION OPERATIONS THAT ARE NOT ANTICIPATED TO BE DRESSED OR RECEIVE FINAL GRASSING TREATMENT WITHIN THIRTY DAYS SHALL BE SEEDED WITH A QUICK GROWING GRASS SPECIES WHICH WILL PROVIDE AN EARLY COVER DURING THE SEASON IN WHICH IT IS PLANTED. TEMPORARY SEEDING SHALL BE CONTROLLED AS TO NOT ALTER OR COMPETE WITH PERMANENT GRASSING. SLOPES STEEPER THAN 6:1 SHALL ADDITIONALLY RECEIVE MULCHING OF APPROXIMATELY 2 INCHES OF LOOSE MEASURE OF MULCH MATERIAL CUT INTO THE SOIL OF THE SEEDED AREA TO A DEPTH OF 4 INCHES. THE SEEDED OR SEEDED & MULCHED AREAS SHALL BE ROLLED & WATERED AS NEEDED TO ENSURE OPTIMUM GROWING CONDITIONS FOR THE ESTABLISHMENT OF A GOOD GRASS COVER. IF AFTER 14 DAYS, THE TEMPORARY GRASSED AREAS HAVE NOT ATTAINED A MINIMUM OF 75% OF GOOD GRASS COVER, THE AREAS WILL BE REWORKED & ADDITIONAL SEED APPLIED TO ESTABLISH THE DESIRED VEGETATION COVER. REWORKED & ADDITIONAL SEED APPLIED

- E. MAINTENANCE EROSION & SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED DURING THE ENTIRE DURATION OF CONSTRUCTION. THE CONTRACTOR SHALL INSPECT THE EROSION & CONTROL MEASURES ON A WEEKLY BASIS & 24 HOURS FOLLOWING RAINFALL EVENTS (0.5" OR GREATER) & IMMEDIATELY REPAIR ANY OBSERVED DAMAGED CONTROLS. ALL EROSION & SEDIMENT CONTROLS SHALL BE MAINTAINED AS TO FUNCTION PROPERLY WITHOUT THE TRANSPORT OF SEDIMENTS OUTSIDE THE LIMITS OF THE PROJECT.
- 6. AREAS OF SOILS DISTURBANCE IS LIMITED TO THE AREA WITHIN THE SILT FENCE LIMITS AS SHOWN ON THE STORMWATER POLLUTION PREVENTION AND DEMOLITION PLAN (SEE SHEET C-4).
- 7. ALL DISTURBED PERVIOUS AREAS WILL BE SODDED, UNLESS OTHERWISE NOTED.

8. THERE ARE APPROXIMATELY 2.82± ACRES OF CLASS-II WETLAND ON-SITE PER ORANGE COUNTY ENVIRONMENTAL PROTECTION DIVISION CONSERVATION AREA DETERMINATION (CAD 08-081). THERE SHALL BE NO ENCROACHMENT INTO OR IMPACT TO THE ADJACENT CLASS-II WETLANDS UNTIL A CONSERVATION AREA IMPACT PERMIT IS APPROVED BY ORANGE COUNTY.

	A			
8/2/2019 07/29/2019	$\begin{array}{c c} \hline & \\ \hline \\ \hline$	CPN CPN	GRC GRC	14990 STATE RUAD 535
DATE	REVISIONS	BY	CHECKED	







Figure V-19: Illustration of a Soil Tracking Prevention Device



SOIL TRACKING PREVENTION

- 1. A SOIL TRACKING PREVENTION DEVICE (STPD) SHALL BE CONSTRUCTED AT THE LOCATION SHOWN ON THE PLANS. TRAFFIC FROM UNSTABILIZED AREAS OF CONSTRUCTION SHALL BE DIRECTED THRU THE STPD BARRIER. FLAGGING OR OTHER POSITIVE MEANS SHALL BE USED AS REQUIRED TO LIMIT & DIRECT VEHICULAR EGRESS ACROSS THE STPD.
- 2. THE CONTRACTOR MAY PROPOSE AN ALTERNATIVE TECHNIQUE TO MINIMIZE OFFSITE TRACKING OF SEDIMENT. THE ALTERNATIVE MUST BE REVIEWED & APPROVED BY THE ENGINEER &/OR ORANGE COUNTY PRIOR TO ITS USE.
- 3. ALL MATERIALS SPILLED, DROPPED, OR TRACKED ONTO PUBLIC ROADS (INCLUDING THE STPD AGGREGATE & CONSTRUCTION MUD) SHALL BE REMOVED DAILY, OR MORE FREQUENTLY IF SO DIRECTED BY THE ENGINEER &/OR ORANGE COUNTY.
- 4. AGGREGATES SHALL BE AS DESCRIBED IN SECTION 901 EXCLUDING 901-2.3. AGGREGATES SHALL BE FDOT SIZE #1. IF THIS SIZE IS NOT AVAILABLE, THE NEXT AVAILABLE SMALLER SIZE AGGREGATE MAY BE SUBSTITUTED WITH THE APPROVAL OF THE ENGINEER. SIZES CONTAINING EXCESSIVE SMALL AGGREGATE WILL TRACK OFF THE PROJECT & ARE UNSUITABLE.
- 5. THE STPD SHALL BE MAINTAINED IN A CONDITION THAT WILL ALLOW IT TO PERFORM ITS FUNCTION. TO PREVENT OFFSITE TRACKING, THE STPD SHALL BE RINSED (DAILY WHEN IN USE) TO MOVE ACCUMULATED MUD DOWNWARD THRU THE STONE. ADDITIONAL STABILIZATION OF THE VEHICULAR ROUTE LEADING TO THE STPD MAY BE REQUIRED TO LIMIT THE MUD TRACKED.

EROSION CONTROLS FOR NON STORMWATER DISCHARGES: A) WASTE DISPOSAL:

WASTE MATERIAL:

ALL WASTE MATERIAL WILL BE COLLECTED AND STORED IN A METAL DUMPSTER WHICH WILL BE MAINTAINED BY A LICENSED SOLID WASTE MANAGEMENT COMPANY IN ORANGE COUNTY. THE DUMPSTER WILL MEET ALL LOCAL, STATE AND FEDERAL REGULATIONS. ALL TRASH AND CONSTRUCTION DEBRIS FROM THE SITE WILL BE DEPOSITED IN THE DUMPSTER. THE DUMPSTER WILL BE EMPTIED AS OFTEN AS NECESSARY TO NOT CAUSE ON-SITE DISPOSAL OF WASTE. THE TRASH WILL BE HAULED TO A LANDFILL APPROVED BY ORANGE COUNTY. NO CONSTRUCTION WASTE WILL BE BURIED ONSITE. ALL PERSONNEL WILL BE INSTRUCTED REGARDING THE CORRECT PROCEDURE FOR WASTE DISPOSAL. NOTICES STATING THESE PRACTICES WILL BE POSTED AT THE SUPERINTENDENT CONSTRUCTION TRAILER. THE INDIVIDUAL RESPONSIBLE FOR MANAGING THIS TASK WILL BE IDENTIFIED BY THE CONTRACTOR.

HAZARDOUS WASTE:

ALL HAZARDOUS WASTE MATERIALS WILL BE DISPOSED OF IN ACCORDANCE WITH THE APPLICABLE LOCAL, STATE & FEDERAL REGULATIONS. ALL PERSONNEL WILL BE INSTRUCTED REGARDING THE CORRECT PROCEDURE FOR HAZARDOUS WASTE DISPOSAL. NOTICES STATING THESE PRACTICES WILL BE POSTED AT THE SUPERINTENDENT CONSTRUCTION TRAILER. THE INDIVIDUAL RESPONSIBLE FOR MANAGING THIS TASK WILL BE IDENTIFIED BY THE CONTRACTOR.

SANITARY WASTE:

ALL SANITARY WASTE WILL BE COLLECTED FROM THE PORTABLE UNITS A MINIMUM OF THREE TIMES PER WEEK BY A LICENSED SANITARY WASTE MANAGEMENT CONTRACTOR AS REQUIRED BY LOCAL REGULATION.

B) OFFSITE VEHICLE TRACKING:

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

SPECIFIC NOTES

1. DEMOLITION LIMITS FOR SIDEWALKS, CURBS AND OTHER EXISTING IMPROVEMENTS ARE SHOWN BASED ON ENGINEER'S ESTIMATE OF WHAT IS NEEDED TO CONSTRUCT THE IMPROVEMENTS SHOWN. ANY DEMOLITION BEYOND THE LIMITS SHOWN DEEMED NECESSARY BY THE CONTRACTOR SHALL BE VERIFIED DURING THE BID PROCESS AND COORDINATED WITH OWNER AND LOCAL JURISDICTION. RESTORATION OF ALL AREAS IMPACTED BY THE CONSTRUCTION SHALL BE MADE AS PART OF THE BASE BID FOR THE PROJECT TO A CONDITION EQUAL TO OR BETTER THAN EXISTING CONDITIONS.

DUST CONTROL & PREVENTION:

THE SURFACE AREA OF OPEN, RAW ERODIBLE SOILS EXPOSED BY CLEARING & GRUBBING OPERATIONS OR EXCAVATION & FILLING OPERATIONS SHALL BE LIMITED AS NEEDED TO MINIMIZE THE POTENTIAL OF DUST

- PRODUCTION. IN ADDITION. 1. ALL EXPOSED AREAS SHALL BE PROTECTED BY INSTALLING DUST CONTROL CONTROL MEASURES SUCH AS STABLIZING EXPOSED SOILS USING VEGETATION, MULCHING, SPRAY-ON ADHESIVES, CALCIUM CHLORIDE, WET SUPRESSION (WATERING) AND STONE/GRAVEL LAYERING AS APPLICABLE FOR THE PROJECT AND DEEMED NEECESSARY BY THE CONTRACTOR TO CONTROL DUST.
- 2. ONSITE VEHICLE TRAFFIC SHOULD BE LIMITED TO A MAXIMUM 15 MPH SPEED, AND THE NUMBER AND ACTIVITY OF VEHICLES SHOULD BE CONROLLED AT ANY GIVEN TIME.
- 3. A MOBLE UNIT SHOULD BE AVAILABLE TO APPLY WATER TO CONTROL DUST WHEN NEEDED.
- 4. COVERS SHALL BE PROVIDED FOR ALL HAUL TRUCKS TRASPORTING MATERIALS THAT CONTRIBTURE TO DUST.
- 5. IF CHEMICAL STABILIZATION METHOD IS USED, THE CHEMICALS SHOULD BE APPROVED FOR USE BY THE APPROPRIATE REGULATORY AGENCIES AND SHALL NOT CREATE ANY ADVERSE IMPACTS TO STORMWATER, PLANT LIFE, WATER BODIES, GROUNDWATER, OR FISH AND WILDLIFE.

NPDES NOTE

CHECKED

GRC

A NOTICE OF INTENT TO USE GENERIC PERMIT FOR STORMWATER NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NDPES) IS REQUIRED FOR THE PROJECT. UNLESS OBTAINED BY THE OWNER, THE CONTRACTOR SHALL APPLY AND OBTAIN A NOI NPDES PRIOR TO START OF CONSTRUCTION ACTIVITIES.

PREVENTION		PROJECT NO. 14-082	THIS ITEM HAS BEEN ELECTRONICALLY SIGNED AND SEALED BY:	FLORIDA EVENING CALOUS INC.
			ON August 4, 2019 USING A DIGITAL SIGNATURE.	No 51335
		JULY 29, 2019 SHEET NO.	PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE	STATE OF
) BY	GRC	С-5 sheet 5 оf 22	VERIFIED ON ANY ELECTRONIC COPIES.	GREGOR GROCE WHERD, P.E. LICENSE NO. 51335
				Plans.dwg



BOUNDARY SETBACK LINE	SITE DATA PROPERTY LOCATION: PROPERTY FUTURE LAND PROPERTY ZONING:	1499 USE DESIGNATION:	0 STATE ROAD 535 O	RLANDO, FL 32821 ACMU PD
D LINE	EXISTING USE: PROPOSED USE:		VA	CANT/UNDEVELOPED RETAIL
II WETLAND AREA	(USES SHALL BE CONSISTEN PROPOSED GROSS FLOC	T WITH COMP POLICY DR AREA:	1.1.3)	14,948 S.F.
SED WETLAND IMPACTS	CDOSS DD ADEAD			
ARY WETLAND IMPACTS	PARCEL No. 34-24-28-5844- WETLAND AREA:	-00-950 (TRACTS A &	: В)	4.77± ACRES
	WETLANDS (WETLAND W—1 CLA <u>DIRECT WETLAND IMPACTS</u>	SS II PER CAD-08-08	1)	2.82± ACRES - <u>0.97± ACRE</u>
TE WALK	TRACT B (CONSERVATION AREA NET DEVELOPABLE AREA:) (GROSS AREA LESS P	RESERVED CONSERVATION A	1.85± ACRES REA)
LE ZONING A-2	*NET DEVELOPABLE AREA (INCL *NOTE: NET DEVELOPABLE AREA DEVELOPMENT PLAN APPROVAL PERMITS. THE NET DEVELOPABLE TOURIST COMMERCIA BUILDING SETBACKS (R FRONT (NORTHEAST) (SR 535 SIDE (SOUTH) SIDE (NORTH) REAR (WEST) FROM PROPERTY LINE PERIMETER – PD BU PAVING SETBACKS (REO FRONT (NORTHEAST) (SR 535 SIDE (SOUTH) SIDE (SOUTH) SIDE (SOUTH) SIDE (SOUTH) SIDE (SOUTH) SIDE (SOUTH) SIDE (NORTH) REAR (WEST) MAXIMUM ALLOWABLE E 60' (200' FOR HOTEL) BUILDING CONSTRUCTIO III-B PARKING REQUIRED RETAIL TOTAL PARKING REQUIRED SPACES REQUIRED TO BE RESE	LUDING DIRECT WETLANE A IS SUBJECT TO CHAN PROCESS BASED ON LE AREA MAY SLIGHTLY AL STANDARDS EQUIRED) R.O.W.) 60' R.O.W.) 75' 30' 20' ILDING SETBACK 25' QUIRED) R.O.W.) 25' R.O.W.) 25' R.O.W.) 25' 7.5' 5' BUILDING HEIGHT N TYPE 14,948 S.F. ERVED FOR HANDICAP	D IMPACTS) NGE AS PART OF THE FINAL WETLAND IMPACT INCREASE OR DECREASE. BUILDING SETBACC FRONT (NORTHEAST) SIDE (SOUTH) SIDE (SOUTH) REAR (WEST) FROM PROPERTY LINE PERIMETER - PAVING SETBACKS FRONT (NORTHEAST) SIDE (SOUTH) SIDE (SOUTH) SIDE (SOUTH) SIDE (SOUTH) SIDE (NORTH) REAR (WEST) BUILDING HEIGH <45'	2.92± ACRES KS (PROVIDED) (SR 535 R.O.W.) 91.49' (SR 417 R.O.W.) 90.50' >30' >30' >20' PD BUILDING SETBACK 156.82' S (PROVIDED) (SR 535 R.O.W.) 27' (SR 417 R.O.W.) 22' >7.5' >7.5' >5' HT PROPOSED 300 S.F.) 50 SPACES 50 SPACES 2 SPACES
	BICYCLE PARKING REQU 2 BICYCLE SPACES REQ'D FOR FIRST {2 SPACES + (1 SPACE * (5) PARKING PROVIDED PROPOSED STANDARD PARKING PROPOSED HANDICAP PARKING TOTAL PARKING PROVIDED TOTAL PICYCLE PARKING PROVIDED	JIRED 10 REQ'D VEHICULAR SPACES 50–10)/10)} SPACES	S + 1 BICYCLE PER EVERY 10 RE	Q'D SPACES THEREAFTER 6 SPACES 75 SPACES 4 SPACES 79 SPACES 6 SPACES
	SITE AREA CALC BUILDING FOOTPRINT (INCLUDIN PAVING SIDEWALK DUMPSTER IMPERVIOUS AREA PERVIOUS AREA TOTAL SITE AREA MAXIMUM IMPERVIOUS COVER A IMPERVIOUS COVER PROPOSED MINIMUM OPEN SPACE REQUIRE OPEN SPACE PROVIDED MINIMUM OPEN SPACE REQUIRE CATEGORY "A" OPEN SPACE (>100% CATEGORY "A" OPEN SPACE (>100% CATEGORY "B" OPEN SPACE (>100% CATEGORY "C" OPEN SPACE (LIMITED TOTAL OPEN SPACE PROVIDED FLOOD ZONE "A" PER FEMA F.I 100-YEAR FLOOD ELEVATION IS ADJACENT DEVELOPMENT ESTABL FLOOD ELEVATION 88.38 FT. NA SOILS 42-SANIBEL MUCK, 43-SEFFI WETLAND STAT THERE ARE APPROXIMATELY 2. ENVIRONMENTAL PROTECTION IS	CULATIONS G WALKS UNDER ROOF ALLOWED ED OF REQUIRED) NOT COUNTED) D TO 50% REQUIRED OPEN R.M. PANEL 12095C060 ESTIMATED AT ELEVATIO JSHED 100-YEAR FLOOT VD 88). NER FINE SAND, 0 TO EMENT .82± ACRES OF CLASS DIVISION CONSERVATION	(EXISTING / PROP) 16,890 26,945 3,666 273 47,774 160,155 207,929 207,929 207,929 SPACE) 0.60 ACRE 1.80 ACRES 5F DATED: SEPTEMBER 25th, N 88.50 FT. (NAVD 88) BASID D ELEVATION (I.E., RACETRAC 2 PERCENT SLOPES	OSED) S.F. S.F. S.F. S.F. 1.097 AC. 22.99 % S.F. 1.097 AC. 77.01% S.F. 4.774 AC. 100.00 % 70 % 23.10 % 25 % >25 % 1.19 ACRES 1.20 ACRES N/A (50% OF REQUIRED) (37.7%) 2009. THE ED ON AN 100-YEAR ORANGE COUNTY 08-081).
	THERE SHALL BE NO ENCROAT UNTIL A CONSERVATION AREA HAZARDOUS MA DURING CONSTRUCTION, WHEN DEEMED HAZARDOUS BY THE WATER ACCEPTABLE TO THE F LIGHTING SHALL COMPLY WITH COMMERCIAL D THE PROJECT SHALL COMPLY COUNTY LAND DEVELOPMENT CO DUMPSTER SHALL HAVE CO WALL SHALL BE ARCHITECTURA SIGNAGE NOTE BILLBOARDS & POLE SIGNS SI 31.5 OF THE ORANGE COUNTY	CHMENT INTO OR IMPACT IMPACT PERMIT IS APP ATERIALS ST COMBUSTIBLES ARE B FIRE OFFICIAL, ACCESS IRE DEPARTMENT SHALL ORANGE COUNTY LAND ESIGN STAN WITH THE COMMERCIAL CODE. E DPAQUE GATING AND THALLY COMPATIBLE MATER HALL BE PROHIBITED. C 1 LAND DEVELOPMENT (TO THE ADJACENT CLASS ROVED BY ORANGE COUNTY ATEMENT ROUGHT ONTO THE SITE IN ROADS & A SUITABLE TEMI . BE PROVIDED & MAINTAINE DEVELOPMENT CODE. IDARDS NOTE DESIGN STANDARDS SET FO HE WALL SHALL HAVE A DEC RIAL TO THE PRINCIPLE BUI GROUND & FASCIA SIGNS SE CODE.	S-II WETLANDS SUCH QUANTITIES AS PORARY SUPPLY OF ED. ORTH IN THE ORANGE CORATIVE CONCRETE CAP. LDING. HALL BE PER CHAPTER
AN	14-082 THIS I SCALE GI 1' = 40' GI DATE JULY 29, 2019 SHEET NO. ARE I	TEM HAS BEEN ELECTRONICALLY SIGNED AND SEALED BY: REGORY R. CRAWFORD, P.E. ON August 4, 2019 USING A DIGITAL SIGNATURE. ED COPIES OF THIS DOCUMENT NOT CONSIDERED SIGNED AND DIGITAL SIGNATURE MUST BF		No 51335
APPROVED BY GRC	C-6 SHEET 6 OF 22	FIED ON ANY ELECTRONIC COPIES.		GREGORI GROAD AND GREGORI P.E. LICENSE NO1 51335

						S89°12'39"E 99.04' MEAS S89°03'16"E 98.99' CALC
						SECONDARY WETLAND
						CONSERVATION DELINEATION 1 154
						°37'57"E 652.89' C °38'33"E 652.67' N
						CONSERVATION TRACT "B" 1.85±ACRES
						THE PROPERTY OWNER SHALL RETAIN OWNERSHIP / MAINTENANCE RESPONSIBILITIES, AND THE DEVELOPMENT RIGHTS SHALL BE DEDICATED TO ORANGE COUNTY
						CONSERVATION AREA.
						6' FENCE 'ON' TOP OF RETAINING WALL N89°47'13"W 236.39' M N89°50'00"W 236.75' C
						CONSTRUCTION
8/2/2019 07/29/2019 DATE	2 REVISED PER 1 REVISED PER	F.D.O.T. COMMENTS COUNTY AND SFWMD REVISIONS	COMMENTS	CPN CPN BY	GRC GRC CHECKFD	KADMAR PLA 14990 STATE ROAD 535





SITE GEOMETRY PLAN

CPN

CHECKED BY GRC

SITE NOTES

- 1. ALL CURB RADII ARE TO BE 5.0', TYPICAL. UNLESS NOTED OTHERWISE. EXCEPTION: RADII @ ISLANDS ARE TO FIT ISLAND WIDTHS, UNLESS NOTED OTHERWISE.
- LANDSCAPE ISLAND NOSE NOT TO EXCEED THE PARKING STALL DEPTH &/OR PROTRUDE INTO DRIVE ISLES, TYPICAL.
- 3. ALL DIMENSIONS ARE PARALLEL & PERPENDICULAR TO A BEARING OF S 48° 38' 22" W, UNLESS OTHERWISE INDICATED WITH A "*" OR BEARING.
- 4. LOWER CASE TEXT DENOTES SURVEY &/OR EXISTING CONDITION INFORMATION.

♦ SITE STRIPING & SIGNAGE KEYNOTES

S1. PROPERTY BOUNDARY. S2. HANDICAP PARKING STALL TYPICAL. ------C-14 2 C-14 C-14 8 C-14 S3. HANDICAP SIGN TYPICAL. -----S4. R3-5 RIGHT TURN ONLY SIGN TYPICAL. S5. 24" THERMOPLASTIC STOP BAR WITH STOP SIGN R1-1 TYPICAL. -S6. DIRECTIONAL ARROWS PER F.D.O.T. INDEX No. 711-001, TYPICAL. S7. CONSERVATION AREA SIGN (TO BE PLACED EVERY 50' ALONG BUFFER, ON LANDWARD SIDE). $\begin{pmatrix} 1 \\ C-6 \end{pmatrix}$ S8. INSTALL RELOCATED "NO PARKING" SIGN. <u>9</u> C-14 S9. R6-1R ONE WAY SIGN TYPICAL. S10. STREET TERMINATION SIGN "RED" PER F.D.O.T. INDEX 700-109. S11. SPECIAL EMPHASIS CROSSWALK PER F.D.O.T. INDEX 711-001. S12. STANDARD CROSSWALK PER F.D.O.T. INDEX 711-001. S13. 6" WHITE THERMOPLASTIC. S14. INSTALL "FIRE LANE-NO PARKING" SIGN AND "BLUE REFLECTOR" AS DIRECTED BY FIRE INSPECTOR. S15. PAINT "FIRE LANE-NO PARKING" ZONE AS DIRECTED BY FIRE INSPECTOR. S16. "ONLY" STRIPING PER F.D.O.T. INDEX 711-001. **#**<u>SITE CONSTRUCTION KEYNOTES</u> 7C1. HEAD CURB TYPICAL. -----C2. SIDEWALK WITH MONOLITHIC CURB TYPICAL. -----C3. CONCRETE SIDEWALK DETAIL TYPICAL. ----C4. SIDEWALK CURB RAMP TYPICAL. ----C5. CURB RAMP DETECTABLE WARNING TYPICAL. C6. ASPHALT PAVING MEDIUM DUTY TYPICAL. C7. ASPHALT PAVING LIGHT DUTY TYPICAL. ----C8. CONCRETE PAVING SECTION TYPICAL. C9. DUMPSTER PAD TYPICAL. C10. 6' CONCRETE WHEELSTOP PER F.D.O.T. INDEX 520-001 TYPICAL. C11. RETAINING WALL (TO BE DESIGNED AND PERMITTED BY OTHERS). C12. 2' HIGH ALUMINUM PICKET FENCE (STYLE TO BE DETERMINED BY OWNER). 13 C-14 C13. ASPHALT PAVING HEAVY DUTY TYPICAL. ----C14. 5' UNPAVED STABILIZED SHOULDER. C15. 4' PAVED SHOULDER/FRICTION COURSE AT 2.0% MAX. C16. 9'x9' 6" THICK CONCRETE ENERGY DISSIPATER IN SPREADER SWALE SEE SHEET C-12 FOR SECTION. C17. 50' SPREADER SWALE SEE SHEET C-12 FOR SECTION. C18. SEE ARCHITECTURAL/ELECTRICAL PLANS FOR TRANSFORMER LOCATION. C19. SEE ARCHITECTURAL/ELECTRICAL PLANS FOR SITE LIGHTING LOCATION. 18 C-14 C20. INVERTED U BIKE RACK TYPICAL (3 RACKS REQUIRED – 6 SPACES). — C21. 6' HIGH ALUMINUM PICKET FENCE (STYLE TO BE DETERMINED BY OWNER). C22. MONUMENT SIGN TO BE DESIGNED AND PERMITTED BY OTHERS. C23. 5' WIDE STAMPED/COLORED ASPHALT



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	S89°12'39"E 99.04' MEAS S89°03'16"E 87.7 98.99' CALC
	87.4 -
	B. B. B. B. B. CALC CALC CALC B. B. B. B. B. B. B. B. B. B. B. B. B.
	299 9 1 299 1 29 299 1 29 29 29 1 20 20 20 1 20 20 20 20 20 20 20 20 20 20 20 20 20
	T.O.W.=92 B.O.W.=87
	. 86.3
	$ \begin{array}{c} 1 \\ \hline 1 \\ \hline 1 \\ \hline -12 \\ \hline 1 \\ 1 \\ \hline 1 \\ \hline 1 \\ \hline 1 \\ \hline 1 \\ 1 \\ 1 \\ \hline 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\$
	N89°47'13"W 236.39'N N89°50'00"W 236.75"C
8/2/2019 2 REVISED PER F.D.O.T. COMMENTS 07/29/2019 1 REVISED PER COUNTY AND SFWMD COMMENTS	CONSTRUCTION KADMAR PL CPN GRC CPN GRC CPN GRC



ONSTRUCTED AS PART OF NEW	DEVELOPMENTS PROJECTS IN
E METAL MEDALLION INLET MAR SPACED AND READ "NO DUMPII CIAL GRADE STAINLESS STEEL,	RKERS INSTALLED. TEXT ON THE NG, ONLY RAIN IN THE DRAIN". ALUMINUM, BRASS OR BRONZE AND
ET METAL OR CAST. METAL MA GREEN. AQUATIC CREATURE OR T THE SUBDIVISION. MARKERS	RKER COLOR MUST BE SYMBOL SHOWN ON MARKER SHALL MUST BE AFFIXED TO A CLEAN,
DHESIVES, FASTENERS, OR HEA HALL BE ALIGNED WITH THE CE NG MUST BE BETWEEN 0.4 -	T AS RECOMMENDED BY THE ENTER OF DRAINAGE INLETS AT THE 0.5 INCHES AND THE TOTAL
BETWEEN 3.75 – 4.25 INCHES.	
ATION IS ESTIMATED AT ELEVAT ESTABLISHED 100-YEAR FLOO	ION 88.50 FT. (NAVD 88) BASED ON D ELEVATION (I.E., RACETRAC
60.30 FT. NAVD 60J.	r ٦
N 38-1227, ANY VARIATIONS FRO	GRAPHIC SCALE
APPROVED BY THE BCC ARE INV	
	1'' = 40'
	SEE SHEETS C-12 & C-13 FOR CROSS SECTIONS
	<pre> GRADING KEYNOTES </pre>
	G1. SYNTHETIC EROSION CONTROL BARRIER (SEE FIGURE V–3, SHEET C–5 FOR DETAIL).
	DRAINAGE SYSTEM TESTING
	TO BE OBSERVED BY ENGINEER OF RECORD
	FOLLOWING PLACEMENT OF PAVEMENT BASE AND PRIOR TO CONCLUDING DEWATERING OPERATIONS.
	ALL DRAINAGE STRUCTURE INVERTS SHALL BE IN PLACE PER F.D.O.I. INDEX 425-001.
* <u>.</u> 	
	ANSITE DRAINAGE KEYNOTES
	D1 MITERED END SECTION PER ED OT INDEX 430-022 TYPICAL
1 ² / ₂ , ²	D2. TYPE "C" INLET PER F.D.O.T. INDEX 425-052, TYPICAL.
	D3. STORM MANHOLE TIPE P-8 PER F.D.O.T. INDEX 425-001 & 425-010, TIPICAL.
	DRAINAGE STRUCTURE LEGEND
Experies and the second	TYPE "C" INLET TYPE "C" INLET
	TOP ELEV. 91.50 TOP ELEV. 90.60 TOP ELEV. 91.50 INV. ELEV. 85.47 SE INV. ELEV. 85.00 SW INV. ELEV. 84.75 NE INV. ELEV. 84.75 NE
	SD-4 SD-5 SD-6
	TYPE "C" INLET TYPE "C" INLET TYPE "C" INLET PER F.D.O.T. INDEX "425-052" INDEX <td< td=""></td<>
	INV. ELEV. 83.78 NW INV. ELEV. 83.31 NE INV. ELEV. 88.00 SE INV. ELEV. 83.78 SW INV. ELEV. 82.81 SW
	SD-7 STORM MANULOUE TYPE "D 8" TYPE "C" INLET (MODIEIED)
	PER F.D.O.T. INDEX "425-001" PER F.D.O.T. INDEX "425-052" & INDEX "425-010" TOP ELEV. 89.20 INDEX "425-010" INDEX ELEV. 85.61 S
	TOP ELEV. 91.85 INV. ELEV. 85.61 S INV. ELEV. 86.70 NW INV. ELEV. 82.68 NE
	INV. ELEV. 82.18 SW
	MITERED END SECTION MITERED END SECTION PER F.D.O.T. INDEX "430-022" PER F.D.O.T. INDEX "430-022"
	INV. ELEV. 82.00 INV. ELEV. 85.50
14	STORM DRAINAGE PIPE CHART
× 2E	*ADS_HP_STORM_DUAL_WALL_PP_PIPE FROM TO
	DESIGNATION(LINEAR FEET)& TYPESLOPENUMBERNUMBER(T1)SP-114415" HP*0.5%SD-1SD-3
	T1 SP-2 52 15" HP* 0.5% SD-2 SD-3 T1 SP-3 144 15" HP* 0.5% SD-3 SD-4
	T1 SP-4 94 15" HP* 0.5% SD-4 SD-5 T1 SP 5 97 45" HP* 0.5% SD-4 SD-5
	SP-5 Z/ 15 HP* 0.5% SD-5 SD-7 T1 SP-6 260 15" HP* 0.5% SD-6 SD-7
1	T1 SP-7 66 18" HP* 0.27% SD-7 MES-1 T1 SP-8 45 15" RCP 0.25% SD-8 MES-2
•	
F	PROJECT NO. 14-082 THIS ITEM HAS BEEN ELECTRONICALLY SIGNED AND SEALED BY:
	SCALE GREGORY R. CRAWFORD, P.E. <u>1" = 40'</u> DATE No 51335 No 51335
I N	JULY 29, 2019 PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST DE
BY APPROVED BY GRC	C-8 VERIFIED ON ANY ELECTRONIC COPIES. GREGORY PACENWINGRO, P.E.
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UTILITY NOTES

- 1. ALL EXISTING UTILITIES HAVE BEEN FIELD VERIFIED AT ALL POINTS OF CONNECTION & AREAS OF CONFLICT W/ O.C.U. MAINS.
- 2. REFER TO ORANGE COUNTY STANDARD DETAILS FOR ALL UTILITY DESIGN INFORMATION ALL WATER & SANITARY SEWER UTILITY CONSTRUCTION TO BE PER ORANGE COUNTY REQUIREMENTS. PUMPED FIRE LINE CONSTRUCTION & TESTING TO BE PER ORANGE COUNTY & ORANGE COUNTY FIRE RESCUE DIVISION REQUIREMENTS AND OBSERVED BY THE ENGINEER OF RECORD.
- 3. ALL UTILITIES (INCLUDING PUMP STATION IF APPLICABLE) LOCATED OUTSIDE PUBLIC R.O.W. & PUBLIC EASEMENT SHALL BE PRIVATELY OWNED & MAINTAINED.
- 4. CONTRACTOR TO FIELD RE-VERIFY THE LOCATION OF ALL EXISTING UTILITIES @ CONNECTION POINTS, CONFLICTS, & WITHIN DIRECTIONAL DRILLING AREAS PRIOR TO START OF CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT IMMEDIATELY TO THE ATTENTION OF THE ENGINEER OF RECORD. THE ENGINEER SHALL COORDINATE ANY DESIGN CHANGES W/ O.C.P.U.
- 5. CONTRACTOR SHALL MAINTAIN A MINIMUM OF 3' COVER OVER ALL PROPOSED UTILITIES.
- CONTRACTOR SHALL NOTIFY THE ORANGE COUNTY PUBLIC UTILITIES CONSTRUCTION DEPARTMENT 48 HOURS PRIOR TO ANY UTILITIES CONSTRUCTION PH. # 407-254-9798.
- 7. THE CONSTRUCTION OF ALL UTILITIES PROPOSED FOR CONNECTION TO THE O.C. UTILITY SYSTEM SHALL BE IN CONFORMANCE WITH THE ORANGE COUNTY STANDARDS & CONSTRUCTION SPECIFICATIONS MANUAL LATEST EDITION.

CONTRACTOR SHALL ADJUST ANY EXISTING UTILITY APPURTENANCE TO FINAL GRADE.

SANITARY SEWER PIPE CHART										
DESIGNATION	8"P.V.C. LENGTH (LINEAR FEET)	(SDR26) SIZE & TYPE	SLOPE	FROM STRUCTURE NUMBER	TO STRUCTURE NUMBER					
SP-1 12 8" P.V.C. 1.00% SS-1 SS-2										
SANITARY SEWER STRUCTURE LEGEND										

(SS-D)

(SS-2)SANITARY LIFT STATION TOP ELEVATION

SANITARY SEWER MANHOLE TOP ELEVATION 93.00 INVERT ELEVATION N.E. 83.26 INVERT ELEVATION S. 83.36

93.00 INVERT ELEVATION S.W. 83.20

TESTING APPARATUS LOCATION

- PRESSURE TESTING TO BE OBSERVED BY ENGINEER OF RECORD
- T1. GAUGE LOCATION FOR 2 HOUR 150 P.S.I. DOMESTIC WATER SYSTEM TEST.
- T2. GAUGE LOCATION FOR 2 HOUR 150 P.S.I. DOMESTIC WATER SYSTEM TEST.
- T3. GAUGE LOCATION FOR 2 HOUR 200 P.S.I. FIRE LINE WATER SYSTEM TEST.
- T4. GAUGE LOCATION FOR 2 HOUR 100 P.S.I. SANITARY FORCEMAIN SYSTEM TEST.

(#) UTILITY KEYNOTES

U1. SITE LIGHTING. REFER TO SHEET SPP-1 SITE PLAN - PHOTOMETRICS PLAN FOR LOCATION. U2. UTILITY CROSSING DENOTED BY LETTER ARE SHOWN ON THIS SHEET. SEE DIRECTIONAL DRILL PROFILE FOR OFF-SITE CROSSINGS.

⟨**#**⟩SANITARY SEWER UTILITY KEYNOTES

- S1. EXISTING FORCEMAIN.
- S2. EXISTING AIR RELEASE VALVE IN CONCRETE STRUCTURE. ADJUST TO PROPOSED WALK GRADE AS DIRECTED BY ORANGE COUNTY UTILITIES.
- S3. CONTRACTOR SHALL WET TAP EXISTING 4" P.V.C. FORCEMAIN WITH 4"x4" SPLIT TAPPING SLEEVE AND VALVE BY ORANGE COUNTY UTILITIES APPROVED CONTRACTOR.
- S4. 4" GREEN POLYETHYLENE TUBING FORCEMAIN (AWWA C800, SDR 9 AND AWWA C901).
- S5. 4" PLUG VALVE (LOCATE AT RIGHT-OF-WAY).
- S6. 4"x3" REDUCER.
- S7. 3" GREEN POLYETHYLENE TUBING FORCEMAIN (AWWA C800, SDR 9 AND AWWA C901).
- S8. 3" PLUG VALVE.
- S9. LIFT STATION (SEE SHEET C-18 FOR DETAILS).
- S10. 12 LF OF 8" PVC (SDR26) @ 0.50% (SP-1).
- S11. SANITARY MANHOLE (SEE SHEETS C-15 & C-16 FOR DETAILS).
- S12. 25 LF OF 6" PVC LATERAL (SDR26) @ 1.00%.
- S13. 6"x6"x6" WYE. DROP FROM SAMPLE BOX EFFLUENT INVERT EL: 88.20 TO WYE INVERT EL: 83.46.
- S14. 6"x6"x6" WYE. DROP FROM INVERT EL: 84.08 TO WYE INVERT EL: 83.58.
- S15 CLEAN-OUT INVERT EL: 83.60.
- S16. 22 LF OF 6" PVC LATERAL (SDR26) @ 1.00%.
- S17. POINT OF CONNECTION AT BUILDING CLEAN-OUT INV. EL. 84.30 (CONTRACTOR TO VERIFY LOCATION AND SIZE OF PLUMBING CONNECTION PRIOR TO CONSTRUCTION. SEE ARCHITECTURAL/PLUMBING PLANS).
- S18. POINT OF CONNECTION AT BUILDING CLEAN-OUT INV. EL. 88.50 (CONTRACTOR TO VERIFY LOCATION AND
- SIZE OF PLUMBING CONNECTION PRIOR TO CONSTRUCTION. SEE ARCHITECTURAL/PLUMBING PLANS). S19. BUILDING CLEAN-OUT (SEE ARCHITECTURAL/PLUMBING PLANS).
- S20. POINT OF CONNECTION AT BUILDING CLEAN-OUT INV. EL. 88.50 (CONTRACTOR TO VERIFY LOCATION AND SIZE OF PLUMBING CONNECTION PRIOR TO CONSTRUCTION. SEE ARCHITECTURAL/PLUMBING PLANS) (GREASE TRAP INFLUENT INVERT EL: 88.45).
- S21. (2) GREASE TRAPS (1,250 GAL. IN SERIES) ACCESS COVER ELEVATION 93.40.
- S22. GREASE TRAP EFFLUENT INVERT EL: 88.25, 5 LF OF 6" PVC (SDR26) @ 1.00%, SAMPLE BOX INFLUENT INVERT EL: 88.20.
- S23. 42"x42" SAMPLE BOX. ACCESS COVER ELEVATION 93.40.
- S24. SAMPLE BOX EFFLUENT INVERT EL: 88.20.

SEE SHEET C-10 FOR UTILITY ASSET TABLE SITE NOTES:

1. ALL CONSTRUCTION DETAILS ARE CONCEPTUAL AND SUBJECT TO REVIEW AND MODIFICATION DURING THE APPROVAL OF FINAL CONSTRUCTION PLANS.

2. BACKFLOW PREVENTER, POST INDICATOR VALVE AND DOUBLE CHECK DETECTOR VALVES ARE TO BE PAINTED PER DEVELOPERS COLOR CHOICE.

				CONSTRUCTION
				KADMAR PLA
8/2/2019	REVISED PER F.D.O.T. COMMENTS	CPN	GRC	14990 STATE ROAD 535.
07/29/2019	$\begin{array}{c} \hline 1 \\ 1 \\$	CPN	GRC	
DATE	REVISIONS	BY	CHECKED	



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											1				
				MANHOLE										GRE	ASE INTERCEPT
I.D. NUMBER PLAN SHEET EASTING	NORTHING RIM ELEVA	TION INVERT ELEVATION	NORTH INVER	RT ELEVATION SOUTH	INVERT ELE	EVATION EAST	INVERT ELEVATIO	N WEST	MANUFACTU	JRER CON	IMENTS	I.D. NUI	MBER PLAN SHEET	EASTING NORTHING	ELEVATION
			1												
PUN	1P STATION					CLEAN-C	TUC						EASEME	ENT	
I.D. NUMBER PLAN SHEET EASTING	NORTHING ELEVATION	COMMENTS	I.D. N	NUMBER PLAN SHEET	EASTING	NORTHING	ELEVATION	COMME	NTS	I.D. NUMBE	R PLAN SHEET E	ASTING	NORTHING ELEVA	ATION BOUNDARY CORNER TY	YPE COMMENTS
55-2 C-9				C-9 517 C-9 518 C-9 519 C-9						W29 CORNER 1 W29 CORNER 2 W29 CORNER 3 W29 CORNER 4	C-9 C-9 C-9 C-9 C-9			EASEMENT EASEMENT EASEMENT EASEMENT	
	VALVES	<u></u>							НҮ						
I.D. NUMBER PLAN SHEET EASTING	NORTHING ELEVATION	VALVE TYPE	MAIN TYPE	VALVE SIZE	I.D. NUMBER	PLAN SHEET	EASTING NC		ELEVATION	MANUFACTURER	MODEL #		COMMENTS		
W2 C-9			MAIN	8"	W34	C-9									
W24 C-9		REDUCED PRESSURE BFP	SERVICE	8"		0-9									
W28 C-9		DOUBLE DETECTOR CHECK	MAIN	<u> </u>											
W39 C-9		P.I.V.	MAIN	6"											
W41 C-9		CHECK	MAIN	6" 6"											
I.D. NUMBER PLAN SHEET EASTING W12 C-9	METERS NORTHING ELEVATION	MAIN TYPE WATER SERVICE	СОМ	MENTS	I.D. NUMBER	PLAN SHEET	EASTING NC	DRTHING E	EXISTING PIPE I	CROSSING	S crossing elevatio	N EXIS	TING MAIN TYPE STORM	COMMENTS	
W22 C-9		IRRIGATION SERVICE	PE		U2-B	C-9							STORM	TINGS	
I.D. NUMBER PLAN SHEET EASTING	NORTHING ELEVATION	MAIN TYPE TYPE OF	SHOT CON PIPF	ISTRUCTION METHOD	MATERIAL	PRESSURE CL	LASS MANU	UFACTURE	С		I.D. NUMBER PLA	N SHEET	EASTING NORT	HING ELEVATION MAIN TY	PE FITTING TYPE COMMENTS AIN REDUCER
W3 C-9		WATERMAIN SHOT ON	PIPE		PVC	DR11					W6	C-9		WATERM	AIN REDUCER
W5 C-9 W7 C-9		WATERMAIN SHOT ON	PIPE PIPE		HDPE PVC	C-900 DR1 C-900 DR1	18				W8 W9	C-9 C-9		WATERMA	AIN TEE AIN CORP STOP
W10 C-9		WATERMAIN SHOT ON	PIPE		P.E.	C-800 SDR	R9				W11	C-9		WATERM	AIN CURB STOP
W16 C-9		WATERMAIN SHOT ON	PIPE		P.E.	C-800 SDR	89 18				W13 W15	C-9		WATERM/	AIN CURB STOP
W27 C-9		WATERMAIN SHOT ON	PIPE		PVC	C-900 DR1	18				W17	C-9		WATERM/	AIN CURB STOP
W30 C-9		WATERMAIN SHOT ON	PIPE		PVC	C-900 DR1	18				W19	C-9		WATERM	AIN TEE
W32 C-9 W38 C-9		WATERMAIN SHOT ON	PIPE		PVC PVC	C-900 DR1	18				W21 W23	C-9 C-9		WATERM/	AIN CURB STOP
W40 C-9		FIRE LINE SHOT ON	PIPE		PVC	C900 DR14	4				W25	C-9		WATERM	AIN CURB STOP
W43 C-9 W45 C-9		FIRE LINE SHOT ON	PIPE		PVC PVC	C900 DR14 C900 DR14	4 4				W31 W35	$\frac{C-9}{C-9}$		WATERM/ WATERM/	AIN TEE AIN TEE
W47 C-9		FIRE LINE SHOT ON	PIPE		PVC	C900 DR14	4				W36	C-9		WATERM	AIN REDUCER
W49 C-9 W51 C-9		FIRE LINE SHOT ON	PIPE PIPF		PVC	C900 DR14	4				W37 W42	C-9		WATERM/	AIN 90° BEND AIN FDC
W53 C-9		WATERMAIN SHOT ON	PIPE		PVC	C-900 DR1	18				W44	C-9		WATERM/	AIN 45' BEND
W55 C-9		WATERMAIN SHOT ON	PIPE		PVC	C-900 DR1	18				W46	C-9		WATERM	AIN 45° BEND
											W50	C-9		WATERM/	AIN 45° BEND
											W54	C-9		WATERM	AIN REDUCER

													L	1			
						MANHOL	_E									GREAS	SE INTERCEPTO
I.D. NUMBER	PLAN SHEET	EASTING	NORTHING RIM ELEVA	TION INVER	T ELEVATION NORT	H INVERT ELEVATION SO	UTH INVERT	ELEVATION EAST	INVERT ELE	EVATION WEST	MANUFACTU	RER	COMMENTS	I.D. N	UMBER PLAN SHEET	EASTING NORTHING	ELEVATION
														5	21 C-9		
		PUM	IP STATION					CLEAN-	-OUT						EASEME	INT	
I.D. NUMBER	PLAN SHEET	EASTING	NORTHING ELEVATION	COMN	MENTS	I.D. NUMBER PLAN SH	IEET EASTI	NG NORTHING	ELEVATION	СОММ	ENTS	I.D. NU	MBER PLAN SHEET	EASTING	NORTHING ELEVA	TION BOUNDARY CORNER TYPE	COMMENTS
SS-2	C-9					S15 C-9						W29 CORNE	R 1 C-9			EASEMENT	
						S18 C-9						W29 CORNE	R 3 C-9			EASEMENT	
						S19 C-9						W29 CORNE	R 4 C-9			EASEMENT	
				<u></u>			[
		FACTING	VALVES)							HYL			-			
I.D. NUMBER	C-9	EASTING	NORTHING ELEVATION	VALVE TAP	<u>, IYPE MAI</u> PING	N TYPE VALVE SIZE MAIN 8"	I.D. NUM	- C-9	EASTING	NORTHING	ELEVATION	MANUFACIURER	MODE	L #	COMMENTS		
W14	C-9			DOUBLE	CHECK SI	ERVICE 2"	W57	с—9									
W24 W28	C-9 C-9			REDUCED PR	RESSURE BFP SI	ERVICE 8" MAIN 8"											
W33	C-9			GA	ATE	MAIN 6"											
W39	C-9			P.I	I.V.	MAIN 6"											
W56	C-9 C-9			GA	ATE	MAIN 6"											
					L												
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		FACTING	MEIERS)									NGS				
W12	C-9	EASTING	NORTHING ELEVATION	WATER	SERVICE	COMMENTS	1.D. NUM	A C-9	EASTING	NORTHING	EXISTING PIPE E	LEVATION PROPE	SED CROSSING ELEV	ATION EX	STORM	COMMENTS	
W22	C-9			IRRIGATION	N SERVICE		U2-	B C-9							STORM		
																TINICS	
	DIAN SHEET	FASTING		MAIN TYPE	TYPE OF SHOT						CC			PLAN SHEFT			
W1	C-9	LASTING		WATERMAIN	SHOT ON PIPE		DIP		CLASS	MANUTACTOIL	E	XISTING	W4	C-9		WATERMAIN	REDUCER
W3	C-9			WATERMAIN	SHOT ON PIPE		PVC	DR11	24.0				W6	C-9		WATERMAIN	REDUCER
W5 W7	C-9 C-9			WATERMAIN	SHOT ON PIPE			<u> </u>)R18)R18				W8 W9	C-9 C-9		WATERMAIN	CORP STOP
W10	C-9			WATERMAIN	SHOT ON PIPE		P.E	C-800 S	SDR9				W11	C-9		WATERMAIN	CURB STOP
W16	C-9			WATERMAIN	SHOT ON PIPE		P.E	C-800 S	SDR9				W13	C-9		WATERMAIN	CURB STOP
W20 W27	C-9 C-9			WATERMAIN	SHOT ON PIPE		P.E PVC	C-900 L)R18				W15 W17	<u> </u>		WATERMAIN	CURB STOP
W30	C-9			WATERMAIN	SHOT ON PIPE		PVC	C-900 D	DR18				W19	C-9		WATERMAIN	TEE
W32	C-9			WATERMAIN	SHOT ON PIPE		PVC	C-900 D	DR18				W21	C-9		WATERMAIN	CURB STOP
W38 W40	C-9 C-9			FIRE LINE	SHOT ON PIPE		PVC PVC	C900 DF	λκιο R14				W23 W25	C-9 C-9		WATERMAIN WATERMAIN	CURB STOP
W43	C-9			FIRE LINE	SHOT ON PIPE		PVC	C900 DF	२१४				W31	C-9		WATERMAIN	TEE
W45	C-9			FIRE LINE	SHOT ON PIPE			C900 DF	R14				W35	C-9		WATERMAIN	
W47 W49	C-9 C-9			FIRE LINE	SHUT ON PIPE		PVC PVC		₹14 R14				W36 W37	C-9		WATERMAIN WATERMAIN	90° BEND
W51	C-9			FIRE LINE	SHOT ON PIPE		PVC	C900 DF	२१४				W42	C-9		WATERMAIN	F.D.C.
W53	C-9			WATERMAIN	SHOT ON PIPE		PVC	C-900 D)R18				W44	C-9		WATERMAIN	45° BEND
CCW	L C-8			WAIERMAIN	J SHUL UN PIPE			C_900 L	νπιο				W46 W48	C-9 C-9		WATERMAIN WATERMAIN	45° BEND
													W50	C-9		WATERMAIN	45° BEND
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I.D. NUMBER PLAN S	SHEET	FASTING	NORTHING			FI FVATION	NORTH INVERT F	FVATION SOUTH	I INVERT FI	EVATION FAST	INVERT FL		MANUFA	CTURFR	СОММ	IFNTS	I.D. NUMBER P	AN SHEET			
SS-1 C-	-9																S21	C-9			
						[.															
		PUM	P STA	TION						CLEAN-	OUT						E	ASEMEN	١T		
I.D. NUMBER PLAN	SHEET	EASTING	NORTHING	ELEVATION	СОММ	ENTS	I.D. NUME	BER PLAN SHEE	T EASTING	NORTHING	ELEVATION	СОМ	MENTS		I.D. NUMBER	PLAN SHEET EA	STING NORTHI	NG ELEVATIO	DN BOUNDARY CORNER TYPI	E COMMEI	ENTS
SS-2 C-	-9						S15	C-9						W29	9 CORNER 1	C-9			EASEMENT		
							<u>S17</u>	C-9 C-9						W29	9 CORNER 2 9 CORNER 3	<u>C-9</u> <u>C-9</u>			EASEMENT FASEMENT		
							S19	C-9						W29	9 CORNER 4	C-9			EASEMENT		
I.D. NUMBER PLAN S	SHEET	EASTING	NORTHING	VALVES	VALVE	TYPE	MAIN TYPE V	ALVE SIZE	I.D. NUMBE	R PLAN SHEET	EASTING	NORTHING			IT ACTURER	MODEL #	(COMMENTS			
W2 C-	-9				TAPP	PING	MAIN	8"	W34	C-9											
W14 C-	-9 -9				DOUBLE	CHECK		2"	W57	C-9											
W21 C	-9				DOUBLE DETER	CTOR CHECK	MAIN	8"													
W33 C-	-9				GAT	TE	MAIN	6"													
W39 C- W41 C-	_9 _9				P.I. CHE	CK	MAIN	6"													
W56 C-	-9				GAT	TE	MAIN	6"													
I.D. NUMBER PLAN S W12 C- W22 C-	SHEET -9 -9	EASTING	NORTHING	METERS ELEVATION	MAIN WATER S IRRIGATION	TYPE SERVICE SERVICE	COMMEN	TS	I.D. NUMBER U2-A U2-B	R PLAN SHEET C-9 C-9	EASTING	NORTHING	EXISTING PIF	CRC PE ELEVATION	PROPOSED C	ROSSING ELEVATION	I EXISTING MA STORM	IN TYPE A A	COMMENTS		
						PI	PE											FITTI	INGS		
I.D. NUMBER PLAN S	SHEET	EASTING	NORTHING	ELEVATION	MAIN TYPE	TYPE OF SHOT ON	SHOT CONSTRU	JCTION METHOD	MATERIAL	PRESSURE	CLASS	MANUFACTURI	<u> </u>	COMMENTS EXISTING		I.D. NUMBER PLAN	SHEET EASTIN	G NORTHIN	IG ELEVATION MAIN TYPE	FITTING TYPE	COMMENTS
W3 C-	-9				WATERMAIN	SHOT ON	PIPE		PVC	DR11						W6C	C-9		WATERMAIN	REDUCER	
W5 C-	-9					SHOT ON			HDPE	C-900 DF	18]	W8 (2-9		WATERMAIN		
W10 C-	_9 _9				WATERMAIN	SHOT ON	PIPE		PVC P.E.	C-900 DF	R9					W9 0	2-9 2-9		WATERMAIN	I CURP STOP	
W16 C-	-9				WATERMAIN	SHOT ON	PIPE		P.E.	C-800 SI	R9					W13 (C-9		WATERMAIN	I CURB STOP	
W20 C-	-9				WATERMAIN	SHOT ON			P.E.	C-900 DF	218					W15 0	2-9		WATERMAIN	I CURB STOP	
W30 C-	-9 -9				WATERMAIN	SHOT ON	PIPE		PVC PVC	C-900 DF	18					W19 0	2-9 2-9		WATERMAIN	TEE	
W32 C-	-9				WATERMAIN	SHOT ON	PIPE		PVC	C-900 DF	18					W21 (C-9		WATERMAIN	I CURB STOP	
W38 C-	-9				WATERMAIN	SHOT ON			PVC	C-900 DF	18					W23 (<u> </u>		WATERMAIN	I CURB STOP	
W43 C-	-9				FIRE LINE	SHOT ON	PIPE		PVC	C900 DR	14					W31 (C-9		WATERMAIN WATERMAIN	TEE	
W45 C-	-9				FIRE LINE	SHOT ON	PIPE		PVC	C900 DR	14					W35 (C-9		WATERMAIN	I TEE	
W47 C-	-9				FIRE LINE	SHOT ON			PVC	C900 DR	14					W36 (2-9			N REDUCER	
W49 C- W51 C-	-9			+ +	FIRE LINE	SHOT ON	PIPE		PVC PVC	C900 DR	14					W42	C-9		WATERMAIN WATERMAIN	F.D.C.	
W53 C-	-9				WATERMAIN	SHOT ON	PIPE		PVC	C-900 DF	18					W44 (C-9		WATERMAIN	45° BEND	
W55 C-	-9				WATERMAIN	SHOT ON	PIPE		PVC	C-900 DF	18					W46 (2-9			A5° BEND	
																W50 0	C-9		WATERMAIN	A 45° BEND	
																•					

	MANHO	LE			GREASE INTERCEPTO
I.D. NUMBER PLAN SHEET EASTING NORTHING RIM ELE	EVATION INVERT ELEVATION NORTH INVERT ELEVATION SC	OUTH INVERT ELEVATION EAST INVERT ELEVATION WEST MANUI	ACTURER COMMENTS	I.D. NUMBER PLAN SHEET EA	STING NORTHING ELEVATION
SS-1 C-9				S21 C-9	
PUMP STATION		CLEAN-OUT		EASEMENT	-
I.D. NUMBER PLAN SHEET EASTING NORTHING ELEVATION	N COMMENTS I.D. NUMBER PLAN SI	SHEET EASTING NORTHING ELEVATION COMMENTS	I.D. NUMBER PLAN SHEET	EASTING NORTHING ELEVATION	BOUNDARY CORNER TYPE COMMENTS
SS-2 C-9	S15 C-9	9	W29 CORNER 1 C-9		EASEMENT
	S17 C-9 S18 C-9	9	W29 CORNER 2 C-9		EASEMENT
	S19 C-9	9	W29 CORNER 4 C-9		EASEMENT
VALVE	ES		HYDRANT		
U.D. NUMBER PLAN SHEET EASTING NORTHING ELEVATION	N VALVE TYPE MAIN TYPE VALVE SIZE TAPPING MAIN 8"	I.D. NUMBER PLAN SHEET EASTING NORTHING ELEVATION	MANUFACTURER MODE	L # COMMENTS	-
W14 C-9	DOUBLE CHECK SERVICE 2"	W57 C-9			
W24 C-9	REDUCED PRESSURE BFP SERVICE 8" DOUBLE DETECTOR OUEOLE NAIN 8"				
W28 C-9 W33 C-9	GATE MAIN 6"				
W39 C-9	P.I.V. MAIN 6"				
W41 C-9	CHECK MAIN 6"				
W36 C-9	GATE MAIN 6				
METER	RS		CROSSINGS		
I.D. NUMBER PLAN SHEET EASTING NORTHING ELEVATION	N MAIN TYPE COMMENTS	I.D. NUMBER PLAN SHEET EASTING NORTHING EXISTING P	PE ELEVATION PROPOSED CROSSING ELEVA	ATION EXISTING MAIN TYPE	COMMENTS
W12 C-9 W22 C-9	IRRIGATION SERVICE	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		STORM	
	PIPE			FITTIN	IGS
I.D. NUMBER PLAN SHEET EASTING NORTHING ELEVATION	N MAIN TYPE TYPE OF SHOT CONSTRUCTION METH	HOD MATERIAL PRESSURE CLASS MANUFACTURE	COMMENTS I.D. NUMBER I	PLAN SHEET EASTING NORTHING	ELEVATION MAIN TYPE FITTING TYPE COMMENTS
W1 C-9	WATERMAIN SHOT ON PIPE	DIP	EXISTING W4	C-9	WATERMAIN REDUCER
W3 C-9	WATERMAIN SHOT ON PIPE	PVC DR11	W6	C-9 C-9	WATERMAIN REDUCER
W3 C 3 W7 C-9	WATERMAIN SHOT ON PIPE	PVC C-900 DR18		C-9	WATERMAIN CORP STOP
W10 C-9	WATERMAIN SHOT ON PIPE	P.E. C-800 SDR9	W11	C-9	WATERMAIN CURB STOP
W16 C-9 W20 C-9	WATERMAIN SHOT ON PIPE	P.E. C-800 SDR9	W13	C-9 C-9	WATERMAIN CURB STOP
W27 C-9	WATERMAIN SHOT ON PIPE	PVC C-900 DR18	W15 W17	C-9	WATERMAIN CURB STOP
W30 C-9	WATERMAIN SHOT ON PIPE	PVC C-900 DR18	W19	C-9	WATERMAIN TEE
W32 C-9	WATERMAIN SHOT ON PIPE	PVC C-900 DR18	W21	<u>C-9</u>	WATERMAIN CURB STOP
W30 C-9 W40 C-9	FIRE LINE SHOT ON PIPE	PVC C900 DR14	W25	C-9	WATERMAIN CORB STOP
W43 C-9	FIRE LINE SHOT ON PIPE	PVC C900 DR14	W31	C-9	WATERMAIN TEE
W45 C-9	FIRE LINE SHOT ON PIPE	PVC C900 DR14	W35	C-9	WATERMAIN TEE
w4/ C-9 W49 C-9	FIRE LINE SHOT ON PIPE	PVC C900 DR14	W36 W37	C-9	WATERMAIN REDUCER
W51 C-9	FIRE LINE SHOT ON PIPE	PVC C900 DR14	W42	C-9	WATERMAIN F.D.C.
W53 C-9	WATERMAIN SHOT ON PIPE	PVC C-900 DR18	W44	C-9	WATERMAIN 45° BEND
wbb C-9	WAIERMAIN SHUT ON PIPE	PVC C-900 DK18	W46 W48	C-9	WATERMAIN 45° BEND
				C-9	WATERMAIN 45° BEND
			W54	C-9	WATERMAIN REDUCER

NAN-40 F Operation Operation <th< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th>1</th><th></th><th></th><th></th><th></th></th<>												1				
In Unite 1 + 9, NT DEL OPERATION OPERA						MANHOLE									GREAS	E INTERCEPT
	I.D. NUMBER	PLAN SHEET	EASTING NORTHING	RIM ELEVATION INVERT	Γ ELEVATION NOR	TH INVERT ELEVATION SOUTH	INVERT ELE	VATION EAST INVER	RT ELEVATION WEST	MANUFACTURER	СОММЕ	NTS	I.D. NUMBER PLAI	N SHEET	EASTING NORTHING	ELEVATION
UNITE USATION CLEAN-OUT COURT COURT CLEAN-OUT COURT COURT CLEAN-OUT CLEAN-OUT<				I	1		1						321	<u> </u>		
District			PUMP STATI	ON			1	CLEAN-OU	-				ΕA	SEME	NT	
	I.D. NUMBER	PLAN SHEET	EASTING NORTHING	ELEVATION COMM	ENTS	I.D. NUMBER PLAN SHEET	EASTING	NORTHING ELEV	ATION COMMEN	ITS	I.D. NUMBER F	PLAN SHEET EAS	TING NORTHING	ELEVATI	ION BOUNDARY CORNER TYPE	COMMENTS
Image: Normal Section	SS-2	C-9				S15 C-9 S17 C-9				W	V29 CORNER 1 V29 CORNER 2	C-9 C-9			EASEMENT	
VALVES HYDRANT 90% 1 200						S18 C-9				W	29 CORNER 3	C-9			EASEMENT	
						S19 C-9				W	/29 CORNER 4	C-9			EASEMENT	
Number VALVES HYDRANT 200 10.5 10.0																
		[]	V	ALVES						HYDRA	NT					
Image: State in the second in the s	I.D. NUMBER	PLAN SHEET C-9	EASTING NORTHING	ELEVATION VALVE	TYPE M. PING	AIN TYPE VALVE SIZE MAIN 8"	U.D. NUMBER	C-9	TING NORTHING E	ELEVATION MAN	UFACTURER	MODEL #	CO	MMENTS		
Note: Product State Note: Product State Note: Product State P	W14	C-9			CHECK S	SERVICE 2"	W57	C-9								
Bit C = 0 <thc 0<="" =="" th=""> C</thc>	W24 W28	C-9		DOUBLE DETER	CTOR CHECK	MAIN 8"										
No. C. 1 O. O. No. VI No. No. <th< td=""><td>W33 W39</td><td>C-9 C-9</td><td></td><td>GAT P.I.</td><td>TE</td><td>MAIN 6"</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>	W33 W39	C-9 C-9		GAT P.I.	TE	MAIN 6"										
Dot C.1 D.1 D.2 D.4 D.4 <thd.4< th=""> <thd.4< th=""> <thd.4< th=""></thd.4<></thd.4<></thd.4<>	W41	C-9		CHE	ICK	MAIN 6"										
NUMBER NUMBER<	W56	C-9		GA	IE	MAIN 6"										
Image: Note of the state of the st																
j.j. Mindal Markin Vit Comment Markin Vit Comme			М	ETERS						CF	ROSSINGS					
HZ C-0 NOTIFY INSUL (2-3 C-0 NOTIFY INSUL (2-3 C-0 NOTIFY (303) HZ C-0 KROTION SERVEE L2-3 C-0 STORN STORN STORN HZ C-0 KROTION SERVEE L2-3 C-0 STORN STORN STORN STORN LE MAST PRANCE FILTINGS FILTINGS STORN S	I.D. NUMBER	PLAN SHEET	EASTING NORTHING	ELEVATION MAIN	TYPE	COMMENTS	I.D. NUMBER	PLAN SHEET EAS	TING NORTHING E	XISTING PIPE ELEVATIO	N PROPOSED CR	OSSING ELEVATION	EXISTING MAIN	TYPE	COMMENTS	
PIPE Distribution Man tree Description M* 0 Man tree Description Descr	W12 W22	C-9 C-9		IRRIGATION			U2-A U2-B	C-9 C-9					STORM			
Discrete construction Discrete construction Material Pressure class Manufacture Converts u1 C-8 Material And Final And Fi																
D. NUMBER PLAN S-EET ASTING NORTHING ELEVATION MAIN TYPE OF BIOL N1 C+8 ANT PMAN SHOT ON PPE PNO DPC PX05THG PX05THG MAIN TYPE PX10FLOAL SECURED NAME SECURE						-										
U. U. U. defer F. Marine Marine Marine Marine Marine Marine MarineMarine Marine Marin																
W3 C-9 W4TEWAN SHOT 0V PPS PVC OR11 MM MM C-9 MM MM CEUCK MM REDUCK MM ME MM REDUCK MM MM MM REDUCK MM MM MM REDUCK MM	W1	C-9	EASTING NORTHING	WATERMAIN	SHOT ON PIPE	CONSTRUCTION METHOD	DIP	PRESSURE CLASS	MANUFACTURE	EXISTING	<u> </u>	W4 C	-9	NURTHI	WATERMAIN	REDUCER
NO C-9 WALEMANN SHOL ON PPE PPC C-90 WALEMANN SHOL ON PPE PPC C-800 SPR9 W11 C-9 WALEMANN SHOL ON PPE PPC C-800 SPR9 W13 C-9 WALEMANN SHOL ON PPE PPC C-800 SPR9 W13 C-9 WALEMANN SHOL ON PPE PPC C-800 SPR9 W20 C-9 WATEMANN SHOL ON PPE PPC C-800 SPR9 W13 C-9 WATEMANN SHOL ON PPE W15 C-9 WATEMANN CHEMANN SHOL ON PPE PVC C-900 DR18 W17 C-9 WATEMANN CHEMANN SHOL ON PPE PVC C-900 DR18 W11 C-9 WATEMANN CHEMANN SHOL ON PPE PVC C-900 DR18 W17 C-9 WATEMANN CHEMANN SHOL ON PPE PVC C-900 DR14 W13 C-9 WATEMANN CHEMANN SHOL ON P	W3	C-9		WATERMAIN	SHOT ON PIPE	-	PVC	DR11				W6 C	-9		WATERMAIN	REDUCER
W10 C-9 W12 C-9 W12 C-9 W12 C-9 W12 C-9 W12 C-9 W12 C-9 W13 C-9 W13 C-9 W13 C-9 W15 C-9 W16 C-9 <td< td=""><td>W3 W7</td><td>C-9 C-9</td><td></td><td>WATERMAIN</td><td>SHOT ON PIPE</td><td>-</td><td>PVC</td><td>C-900 DR18</td><td></td><td></td><td></td><td>W9 C</td><td><u>-9</u> -9</td><td></td><td>WATERMAIN</td><td>CORP STOP</td></td<>	W3 W7	C-9 C-9		WATERMAIN	SHOT ON PIPE	-	PVC	C-900 DR18				W9 C	<u>-9</u> -9		WATERMAIN	CORP STOP
N10 C-9 WALEMAN SHOT ON PIE P.C. C-90 (C-90 (C-9)	W10	C-9		WATERMAIN	SHOT ON PIPE	-	P.E.	C-800 SDR9				W11 C	-9		WATERMAIN	CURB STOP
W27 C-9 WATERMAIN SHOT ON PIPE PVC C-900 DR18 WATERMAIN SHOT ON PIPE PVC C-900 DR18 W17 C-9 W17 C-9 WATERMAIN CURB STOP W32 C-9 WATERMAIN SHOT ON PIPE PVC C-900 DR18 W19 C-9 W19 C-9 W18 C/B W33 C-9 WATERMAIN SHOT ON PIPE PVC C-900 DR18 W21 C-9 WATERMAIN CURB STOP W40 C-9 WATERMAIN SHOT ON PIPE PVC C-900 DR18 W21 C-9 WATERMAIN CURB STOP W43 C-9 WATERMAIN SHOT ON PIPE PVC C900 DR14 W23 C-9 WATERMAIN CURB STOP W44 C-9 FIRE LINE SHOT ON PIPE PVC C900 DR14 W35 C-9 WATERMAIN REDUCE W47 C-9 FIRE LINE SHOT ON PIPE PVC C900 DR14 W35 C-9 WATERMAIN REDUCE W47 C-9 FIRE LINE SHOT ON PIPE PVC C900 DR14 W35 C-9 <td>W16 W20</td> <td>C-9 C-9</td> <td></td> <td>WATERMAIN</td> <td>SHOT ON PIPE</td> <td></td> <td>P.E. P.E.</td> <td>C-800 SDR9 C-900 DR18</td> <td></td> <td></td> <td></td> <td>W13 C W15 C</td> <td>_9 _9</td> <td></td> <td>WATERMAIN WATERMAIN</td> <td>CURB STOP</td>	W16 W20	C-9 C-9		WATERMAIN	SHOT ON PIPE		P.E. P.E.	C-800 SDR9 C-900 DR18				W13 C W15 C	_9 _9		WATERMAIN WATERMAIN	CURB STOP
W30 C-9 WATERMAN SHOT ON PIPE PVC C-900 DR18 W19 C-9 W19 C-9 WATERMAN CHE MANN SHOT ON PIPE PVC C-900 DR18 W10 C-9 WATERMAN SHOT ON PIPE PVC C-900 DR18 W23 C-9 WATERMAN CURB STOP W40 C-9 FIRE LINE SHOT ON PIPE PVC C900 DR14 W23 C-9 WATERMAN CURB STOP W45 C-9 FIRE LINE SHOT ON PIPE PVC C900 DR14 W31 C-9 WATERMAN CURB STOP W47 C-9 FIRE LINE SHOT ON PIPE PVC C900 DR14 W35 C-9 WATERMAN M2E W47 C-9 FIRE LINE SHOT ON PIPE PVC C900 DR14 W35 C-9 WATERMAN REDUCER REDUCER W35 C-9 WATERMAN PVC PVC C900 DR14 W35 C-9 WATERMAN REDUCER PVC C900 DR14 W35 C-9 WATERMAN PVC PVC C900 DR14 W35 C-9 WATERMAN PVC PVC PVC	W27	C-9		WATERMAIN	SHOT ON PIPE		PVC	C-900 DR18				W17 C	-9		WATERMAIN	CURB STOP
W38C-9WATERMAINSHOT ON PIPEPVCC-900 DR18WATERMAINWATERMAINCURB STOPW40C-9FIRE LINESHOT ON PIPEPVCC900 DR14WATERMAINWATERMAINCURB STOPW43C-9FIRE LINESHOT ON PIPEPVCC900 DR14WATERMAINWATERMAINCUEB STOPW45C-9FIRE LINESHOT ON PIPEPVCC900 DR14WATERMAINTEEW47C-9FIRE LINESHOT ON PIPEPVCC900 DR14WATERMAINTEEW49C-9FIRE LINESHOT ON PIPEPVCC900 DR14WATERMAINWATERMAINREDUCERW51C-9FIRE LINESHOT ON PIPEPVCC900 DR14WATERMAINWATERMAINSHOT ON PIPEW55C-9FIRE LINESHOT ON PIPEPVCC-900 DR18WATERMAINSHOT ON PIPEWATERMAINW55C-9WATERMAINSHOT ON PIPEPVCC-900 DR18WATERMAINSHOT ON PIPEWATERMAINW55C-9WATERMAINSHOT ON PIPEPVCC-900 DR18WATERMAINYATERMAIN45' BENDW55C-9WATERMAINSHOT ON PIPEPVCC-900 DR18WATERMAINYATERMAIN45' BENDW55C-9WATERMAINSHOT ON PIPEPVCC-900 DR18WATERMAINYATERMAIN45' BENDW56C-9WATERMAINSHOT ON PIPEPVCC-900 DR18WATERMAINYATERMAIN45' BENDW56C-9WATERMAIN <t< td=""><td>W30 W32</td><td>C-9 C-9</td><td></td><td>WATERMAIN WATERMAIN</td><td>SHOT ON PIPE</td><td><u>-</u></td><td>PVC PVC</td><td>C-900 DR18 C-900 DR18</td><td></td><td></td><td></td><td>W19 C W21 C</td><td><u>-9</u> -9</td><td></td><td>WATERMAIN WATERMAIN</td><td>CURB_STOP</td></t<>	W30 W32	C-9 C-9		WATERMAIN WATERMAIN	SHOT ON PIPE	<u>-</u>	PVC PVC	C-900 DR18 C-900 DR18				W19 C W21 C	<u>-9</u> -9		WATERMAIN WATERMAIN	CURB_STOP
W40C-9FIRE LINESHOT ON PIPEPVCC900 DR14CW45C-9W45C-9W45C-9W45C-9W45C-9W45C-9W45C-9W45C-9W45C-9W45W45C-9W45W45C-9W45W45C-9W45W45C-9W45W45W45W45C-9W45W45W45C-9W45W46 <td>W38</td> <td>C-9</td> <td></td> <td>WATERMAIN</td> <td>SHOT ON PIPE</td> <td></td> <td>PVC</td> <td>C-900 DR18</td> <td></td> <td></td> <td></td> <td>W23 C</td> <td>-9</td> <td></td> <td>WATERMAIN</td> <td>CURB STOP</td>	W38	C-9		WATERMAIN	SHOT ON PIPE		PVC	C-900 DR18				W23 C	-9		WATERMAIN	CURB STOP
Mit Order O	W40	C-9		FIRE LINE	SHOT ON PIPE	<u> </u>	PVC	C900 DR14				W25 C	-9 -9		WATERMAIN	CURB STOP
W47C-9FIRE LINESHOT ON PIPEPVCC900 DR14C900 DR14MATERMAINC-9MATERMAINWATERMAINREDUCERMATERMAIN90' BENDW51C-9MMFIRE LINESHOT ON PIPEPVCC900 DR14MATERMAINMATERMAIN90' BENDMATERMAIN90' BENDW53C-9MMATERMAINSHOT ON PIPEPVCC900 DR14MATERMAINMATERMAINF.D.C.WATERMAINF.D.C.W53C-9MMATERMAINSHOT ON PIPEPVCC-900 DR18MATERMAINMATERMAIN45' BENDMATERMAIN45' BENDW55C-9MMATERMAINSHOT ON PIPEPVCC-900 DR18MATERMAINMATERMAIN45' BENDMATERMAIN45' BENDW55C-9MMATERMAINSHOT ON PIPEPVCC-900 DR18MATERMAINMATERMAIN45' BENDMATERMAIN45' BENDW55C-9MMATERMAINSHOT ON PIPEPVCC-900 DR18MATERMAINMATERMAIN45' BENDMATERMAIN45' BENDW56C-9MMATERMAINSHOT ON PIPEPVCC-900 DR18MATERMAINMATERMAIN45' BENDMATERMAIN45' BENDW57KKKKKKKKKKKKKKKW58KKKKKKKKKKKKKKKKKKKK <td< td=""><td>W45</td><td>C-9</td><td></td><td>FIRE LINE</td><td>SHOT ON PIPE</td><td></td><td>PVC</td><td>C900 DR14</td><td></td><td></td><td></td><td>W35 C</td><td>-9</td><td></td><td>WATERMAIN</td><td>TEE</td></td<>	W45	C-9		FIRE LINE	SHOT ON PIPE		PVC	C900 DR14				W35 C	-9		WATERMAIN	TEE
W13C - 3INC. LINESHOLON FILEC 000 DR14C 000 DR14C - 9C - 9C - 9C - 9C - 9WATERMAIN90 BEND90 BENDW51C - 9C - 9C - 9C - 900 DR14PVCC - 900 DR14W42C - 9W42<	W47	C-9			SHOT ON PIPE		PVC	C900 DR14				W36 C	-9		WATERMAIN	REDUCER
W53C-9WATERMAINSHOT ON PIPEPVCC-900 DR18W44C-9MMATERMAIN45° BENDW55C-9WATERMAINSHOT ON PIPEPVCC-900 DR18W46C-9W46C-9WATERMAIN45° BENDW48C-9W48C-9WATERMAIN45° BENDWATERMAIN45° BENDWATERMAIN45° BENDW50C-9W51WATERMAIN45° BENDWATERMAIN45° BENDWATERMAIN45° BEND	W51	C-9		FIRE LINE	SHOT ON PIPE	- 	PVC	C900 DR14				<u>W42</u> C	-9		WATERMAIN	F.D.C.
W33 C-9 WATERMAIN SHOT ON PIPE PVC C-900 DR18 W46 C-9 WATERMAIN 45° BEND W48 C-9 WATERMAIN 45° BEND W50 C-9 WATERMAIN 45° BEND W54 C-9 WATERMAIN 45° BEND	W53	C-9		WATERMAIN	SHOT ON PIPE	-	PVC	C-900 DR18				W44 C	-9		WATERMAIN	45° BEND
W50 C-9 WATERMAIN 45° BEND W54 C-0 WATERMAIN DEDUCED	V	L-9		WAIERMAIN	SHUL UN PIPE	<u>-</u>		- C-900 DR18				w46 C W48 C	- 9 -9		WATERMAIN WATERMAIN	45° BEND
												W50 C	-9 -9		WATERMAIN	45° BEND

				CONSTRUCTION
				KADMAR PLA
8/2/2019	2 REVISED PER F.D.O.T. COMMENTS	CPN	GRC	14990 STATE ROAD 535
07/29/2019	\bigwedge REVISED PER COUNTY AND SFWMD COMMENTS	CPN	GRC	
DATE	REVISIONS	BY	CHECKED	

I PLANS _AZA 5, ORLANDO, FL



5127 S. Orange Avenue, Suite 200 Orlando, FL 32809 Phone: 407-895-0324 Fax: 407-895-0325

www.feg-inc.us

ORANGE COUNTY ASS

DESIGNED BY	DRAWN BY
CPN	CPN



	GREASE INTERCEPTOR						
BER	PLAN SHEET	EASTING	NORTHING	ELEVATION	VOLUME (GALLONS)	COMMENTS	
	C-9						

		PROJECT NO. 14-082	THIS ITEM HAS BEEN ELECTRONICALLY	1	FLORIDA STOINEERING GROUP INC.
SET T	ABLE	SCALE 1' = 40'	GREGORY R. CRAWFORD, P.E. ON August 4, 2019 USING A		No 51335
		DATE JULY 29, 2019	PRINTED COPIES OF THIS DOCUMENT		STATE OF
KED BY RC	APPROVED BY GRC	SHEET NO. C-10 SHEET 10 OF 22	ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.		GREGOR CRACE WORD P.E. LICENSE NO. 51335
					AutoTurnPlan.dwg



MENT	ſS	PROJECT NO. 14-082 SCALE 1" = 40' DATE JULY 29, 2019 SHEET NO.	THIS ITEM HAS BEEN ELECTRONICALLY SIGNED AND SEALED BY: GREGORY R. CRAWFORD, P.E. ON August 4, 2019 USING A DIGITAL SIGNATURE. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND	FLORIDA GREINEERING GEOODE INC.
ED BY C	APPROVED BY GRC	C-11 Sheet 11 OF 22	VERIFIED ON ANY ELECTRONIC COPIES.	GREGOR GROCE WHORD, P.E. LICÉNGE NO, 51335
				Plans.dwg



				CONSTRUCTION
				KADMAR PLA
8/2/2019	2 REVISED PER F.D.O.T. COMMENTS	CPN	GRC	14990 STATE ROAD 535
07/29/2019	$\overline{\uparrow}$ REVISED PER COUNTY AND SFWMD COMMENTS	CPN	GRC	
DATE	REVISIONS	BY	CHECKED	

		PROJECT NO. 14-082	THIS ITEM HAS BEEN ELECTRONICALLY SIGNED AND SEALED BY:	FLORIDA STOINEERING GROUP INC.
NS		SCALE AS NOTED	GREGORY R. CRAWFORD, P.E. ON August 4, 2019 USING A	No 51335
		DATE JULY 29, 2019	PRINTED COPIES OF THIS DOCUMENT	STATE OF
		SHEET NO.	ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE	E A A A A
D BY C	APPROVED BY GRC	C-13 SHEET 13 OF 22	VERIFIED ON ANY ELECTRONIC COPIES.	GREGORI GROGIN WORD, P.E. LICENSENO, 51335

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CONSTRUCTION PLANS KADMAR PLAZA	
8/2/2019 2 REVISED PER F.D.O.T. COMMENTS CPN GRC 07/29/2019 1 REVISED PER COUNTY AND SFWMD COMMENTS CPN GRC DATE DATE <td< td=""><td>?7 S. Orange Avenue, Suite 200 Indo, FL 32809</td></td<>	?7 S. Orange Avenue, Suite 200 Indo, FL 32809

SITE CONSTRUCTION

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DESIGNED BY DRAWN BY CPN

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DETAILS		PROJECT NO. 14-082	THIS ITEM HAS BEEN ELECTRONICALLY SIGNED AND SEALED BY:		
		SCALE NOT TO SCALE	GREGORY R. CRAWFORD, P.E. ON August 4, 2019 USING A		IIIII
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D BY	APPROVED BY GRC	SHEET NO. C-14A SHEET 14 OF 22	ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.		11.

				CONSTRUCTION
				KADMAR PL
8/2/2019	2 REVISED PER F.D.O.T. COMMENTS	CPN	GRC	14990 STATE ROAD 53
07/29/2019	REVISED PER COUNTY AND SFWMD COMMENTS	CPN	GRC	
DATE	REVISIONS	BY	CHECKED	
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				CONSTRUCTION
				KADMAR PL
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07/29/2019	REVISED PER COUNTY AND SFWMD COMMENTS	CPN	GRC	
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FLORIDA STORINE ERINGUEROUP INC.
No 51335

GRAPHIC SCALE

1" = 40'

	1		N N BALCO 1/1
-082	THIS ITEM HAS BEEN ELECTRONICALLY SIGNED AND SEALED BY:	FLO	DRIDA SVOINEERING GROUP INC. CERCIFICATE NON BROOCS 95
= 40'	GREGORY R. CRAWFORD, P.E. ON August 4, 2019 USING A		No 51335
, 2019	PRINTED COPIES OF THIS DOCUMENT		STATE OF
17 0F 22	ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.		GREGOR PACEAWARD P.E.
			AutoTurnPlan.dwg

SCOPE: Supply one complete H-20 LP Pre-Fab Lift Station, per design. Pumps shall be capable of pumping domestic & commercial sewage. Complete system shall be supplied by: RILEY & Company, Inc. Sanford, FL 32773 (Ph. 407-265-9963)

NO SUBSTITUTIONS - NO ALTERNATES

The H-20 Load Rated Fiberglass Wetwell Must Be Manufactured By L.F. Manufacturing, Giddings, Texas, Which Includes A Written 20 Yr. Warranty. Certification of the wetwell H-20 load rating must be supplied with submittals. H-20 certification must be signed and sealed by an engineer registered in the State of Florida.

After the H-20 load rated wetwell has been installed, the ASTM Certification Number and Serial Tracking Number must be visible.

PUMPS: (3 YEAR WARRANTY)

Submersible pumps shall be RILEY Model RC20056. The grinder pumps shall be installed in the H-20 GP FRP wetwell utilizing a duel slide rail system. The grinder pumps shall be capable of grinding and pumping materials normally found in domestic and commercial sewage.

Stator winding shall be open type with Class F insulation and shall be heatshrink fitted into the stator housing. The use of pins, bolts, or other fastening devices is not acceptable.

A heat sensor thermostat shall be attached to the top end of the motor winding and shall be connected in series with the magnetic contactor coil in the control panel to stop motor if winding temperature exceeds 140 C., but shall automatically reset when the winding temperature returns to normal. Two heat sensor thermostats shall be used on three phase motors.

The pump motor shaft shall be Series 300SS threaded to take the pumps 300 series stainless steel impeller.

DUPLEX CONTROL PANEL: (3) YEAR WARRANTY

To insure complete unit and warranty responsibility the electrical control panel must be manufactured and built by the pump supplier. The pump supplier must be a TUV (UL508A CERTIFIED) manufacturing facility, with a minuimum of 5 years history in the manufacturing of electrical control panels. The Enclosure shall be NEMA 4X, minimum 30" high x 30" wide x 10" deep Marine Grade Aluminum with 4 point latching system.

The enclosure shall have external mounting feet to allow for wall mounting. The following components shall be mounted through the enclosure:

1- ea. Red Alarm Beacon (Light) 4" x 4" Minimum Diameter

1- ea. Alarm Horn (minimum 95 DCB)

1- ea. Generator Receptacle w/ weatherproof cover(SCM460 -UL 1686)

1- ea. Alarm Silence Pushbutton

The back panel shall be fabricated from .125, 5052-H32 marine alloy aluminum. All components shall be mounted by machined stainless steel screws.

The following components shall be mounted to back panel:

2- ea. Motor Contactors

- 1- ea. Phase Monitor (3 Ph) w/2 N/O & 1 N/C Contacts
- 1- ea. Control Transformer (480 Volt Only) (Min. 500VA)

1- ea. Silence Relay Module

1- ea. Duplex Alternator w/ Pump Selector Switch 1- ea. Model RCBB5AH Battery Back-Up w/ Smart Charger For The High Level Alarm System

20- ea. Terminals For Field Connections

6- ea. Terminals For Motor Connections (Single Phase Only)

7- ea. Grounding Lugs

1- ea. Seal Failure Relay

The inner door shall be fabricated from .080, 5052-H32 marine alloy aluminum. The inner door shall have a continuous aluminum piano hinge.

The following components shall be mounted through the inner door:

- 1- ea. Main Circuit Breaker
- 1- ea. Emergency Circuit Breaker
- 1- ea. Mechanical Interlock For Emergency And Main Breakers (UL Listed) 2- ea. Short Circuit Protectors w/ Auxiliary Contacts
- 1- ea. Control Circuit Breaker 2- ea. Seal Failure Indicator Lights

1- ea. Hand-Off-Auto Selector Switches

- 2- ea. Pump Run Pilot Lights
- 1- ea. Power On Pilot Light
- 2- ea. Elapse Time Meters (Non-Resetable)
- 1- ea. GFI Duplex Convenience Outlet

PUM PRIMARY PUMP CA PRIMARY TDH PUMP MANUFACTU PUMP MODEL # R.P.M. HORSEPOWER ELECTRICAL/ VOLT PUMP DISCHARGE

RILEY & Company, Inc. (H-20 GP) w/ BATTERY BACK-UP FOR AUDIO AND VISUAL ALARMS

P DATA			
PACITY	61 GPM	TOP OF WETWELL	93.00
	61 ' <i>TDH</i>	INLET INVERT	83.20
RER	RILEY	HIGH LEVEL ALARM (HLA)	82.70
	RC20056	2nd PUMP ON (LAG)	82.20
	3450	1st PUMP ON (LEAD)	81.70
	2.50	PUMPS OFF (OFF)	81.20
S/PHASE	230V/3	BOTTOM OF WETWELL	79.20
SIZE	2"	WETWELL DIAMETER	48"

- 1. Water service with hose bibb and reduced pressure backflow preventer to be installed near lift station. (See Electrical Riser Illustration)
- 2. System shall be operated and maintained to provide uninterrupted service as required by DEP Chapter 62-604.500.
- 3. Approved Operation & Maintenance Manual(O&M) shall be kept available for operation and maintenance personnel

PRIVATE

SANITARY SEWER

PUMP STATION

IN CASE OF EMERGENCY CONTACT THE

- 4. A weather resistant emergency contact sign shall be installed at the lift station and made visible to the public. (See Drwg.)
- 5. INSPECTION & TESTING: A factory representative shall be provided for a one (1) time start-up and shall have complete knowledge of the proper operation and maintenance for the complete lift station package.

		99.04' MEAS S89°03'16"E 98.99' CALC		
	TRACT A CONSERVATION AREA WORLD GATEWAY PHASE 2 PLAT BOOK 42, PAGES 93-95			
IRRIGATION LEGEND		NR9°47'13"W 236.39' MEAS N89°47'13"W 236.39' MEAS N89°50'00"W 236.75' CALC		
8/2/2019 2 REVISED PER F.D.O.T. COMMENTS 07/29/2019 1 REVISED PER COUNTY AND SFWMD COMMENTS DATE REVISIONS	CPN GRC CPN GRC BY CHECKED	CONSTRUCTION KADMAR PL/ 990 STATE ROAD 535		

	IR	RIGATION N	IOTES:					
	1.	SPRINKLER LINES & HE SYSTEM SHALL BE CONS	AD LOCATIONS SHOWN STRUCTED WITHIN THE	ARE ESSENTIALL' PROPERTY BOUN	Y DIAGRAMMATIC. THE DARIES.	RRIGATION		
	2.	CONTRACTOR SHALL INS ALL PLANTED & GRASSE SPRINKLER HEADS. PR REQUIRED FOR A COMP	TALL A COMPLETE IRR ED AREAS. HEAD SPA OVIDE ALL PIPING, VAI LETE & OPERATIONAL	RIGATION SYSTEM N CING IS TO BE E LVES, VALVE BOXE IRRIGATION SYSTE	WHICH PROVIDES 100 QUAL TO THE RADIUS S, SPRINKLER HEADS M.	0% COVERAGE OF 5 OF THE GIVEN 5 & WIRING AS		
	3.	ADJUST SPRINKLER HEA TURF & SHRUBS ELIMIN	D RADIUS & PATTERN IATING ANY OVERTHRO'	(WHERE APPLICA W ONTO SIDEWALK	BLE) TO OBTAIN MAX (S, PAVEMENT, OR BI	. COVERAGE FOR UILDING STRUCTURE.		
	4.	ALL IRRIGATION PIPING V SIZES LARGER THAN TH	WHICH IS LOCATED UN E IRRIGATION LINE.	IDER PAVEMENT S	HALL BE ENCASED IN	N A SLEEVE TWO		
1 - 2 - 3 - 4 -	EE CHA · 2-9" PI · 13" PII · 11" PII · 11" PII	CONTRACTOR TO PROVID ADDITION TO AN IRRIGAT CONTRACTOR.	DE A DOUBLE DETECTO TON METER. COORDIN	OR CHECK VALVE NATE LOCATION WI	AT THE POINT OF WAT THE POINT OF WA	ATER SERVICE IN & GENERAL		
5 - 6 - 7 -	10" PII 8" OAI 6. 8" OAI	CONTRACTOR IS RESPON	ISIBLE FOR OBTAINING THE WORK INCLUDED	ANY & ALL PER IN THIS CONTRACT	MITS REQUIRED FOR	THE INSTALLATION		
8 - 9 - 10	- 10" 0/ - 8" OAI 7 .	COORDINATE LOCATION	OF IRRIGATION CONTRO	OLLER WITH OWNE	R & GENERAL CONTF	RACTOR.		
12 13 14	- 12" P - 12" P 8. - 9" 04	PROVIDE A RAIN SWITCH	I EQUIVALENT TO TOR(ON EXPOSED TO NORM) RAIN SWITCH #8 1AL RAINFALL & F	350-74. MOUNT ON PER MFRS. SUGGESTI	I BUILDING IN AN ONS.		
15 16 17	- 13" P - 13" P 9. - 12" C	OBTAIN INSPECTION & A	APPROVAL OF ALL BUP	RIED PIPING PRIOF	TO BACKFILLING.			
18 19 20	- 12" P - 14" P - 11" P	SPRINKLER HEAD MODEI QUALITY MAY BE USED	_ NUMBERS SHOWN R WITH THE APPROVAL (EFLECT TORO SPF DF THE OWNER.	RINKLERS. ANY SPRI	NKLERS OF EQUAL		
21 22 23	- 15" P - 13" P 11. - 13" P	ADJUST DESIGN OF SYS OR UTILITY LINES.	TEM WHERE NECESSAF	RY TO AVOID CON	FLICTS IN THE FIELD	WITH LANDSCAPING		
24 25 26 27 28	- 10" P - 11" P 12. - 20" P - 11" P - 14" P	IRRIGATION CONTROLLER IS HUNTER ET IRRIGATION CONTROLLER WITH SOIL SENSORS. MODEL # ACC- 99D DECODER CONTROLLER AND MODEL # SOLAR-SYNC-WSS-SEN SOIL SENSORS. SENSOR MUST BE PLACED IN FULL SUN PER MANUFACTURER SPECIFICATIONS.						
29 30 31	- 12" P - 14" p 13. - 9" PII	3. PROGRAM IRRIGATION CONTROLLER TO PROVIDE 0.5 INCH OF WATER PER WEEK. SCHEDULE HEADS TO OPERATE DURING MORNING HOURS.						
33 34 35	- 11" P - 11" P 14. - 8" PII	ALL MAINLINE PIPING SHALL BE BURIED TO A MINIMUM DEPTH OF 18" OF COVER. ALL LATERAL PIPING SHALL BE BURIED TO A MINIMUM DEPTH OF 12" OF COVER						
30 37 38	'- 12" P - 24" P - 12" P	ALL POP-UP ROTORS & DO NOT USE FUNNY PI	د SPRAYS SHALL BE I PE.	NSTALLED USING	AN 18" PVC FLEX P	IPE CONNECTION.		
39 40 41) - 16" P 15" P 16.	. THROTTLE ALL VALVES ON SHRUB LINES AS REQUIRED TO PREVENT FOGGING.						
42 43 44	5 - 13" P - 8" 0/ 17.	ALL CONTROL WIRE SPLICES SHALL BE MADE IN VALVE BOXES USING SNAP-TITE CONNECTORS &						
43 46 47 48 49 50	5 - 9" PII 7 - 10" P 18. 8 - 12" P 9 - 9" PII 9 - 9" PII	SEALANT. . THE CONTRACTOR SHALL PREPARE AN AS-BUILT DRAWING ON A REPRODUCIBLE PAPER (SEPIA OR MYLAR) SHOWING ALL IRRIGATION INSTALLATIONS. A MYLAR OR SEPIA OF THE ORIGINAL PLAN MAY BE OBTAINED FROM THE IRRIGATION ARCHITECT FOR A FEE. THE DRAWING SHALL LOCATE ALL VALVES						
51 52 53 54	- 13" P - 12" P - 9" PII 19. - 8" PII	& MAINLINES BY SHOWING EXACT MEASUREMENTS FROM HARD SURFACES OR STRUCTURES.						
55 56 57	- 12" P - 13" P - 8" PII 20	INCLINE FOR CLARNER ONLY ALL LINES SHALL DE INSTALLED UN THE PROPERTY & INSIDE THE IRRIGATIOND AREAS.						
58 59 ⁷ / ₂ 60	- 18" P - 25" P - 10" P	J. ALL WORK SHALL DE GUARANTEED FOR UNE TEAR FROM THE DATE OF FINAL ACCEPTANCE AGAINST ALL DEFECTS IN EQUIPMENT & WORKMANSHIP.						
61 62 63	15" P∠I. 15" P 10" P	21. ELECTRICAL SERVICE TO ALL EQUIPMENT SHALL BE PROVIDED TO A JUNCTION BOX AT THE EQUIPMENT LOCATION BY OTHERS.						
64 65 66	- 13" P 22. - 9" PII - 10" P	3" P 22. ALL IRRIGATION SLEEVES ARE TO HAVE BEEN INSTALLED BY GENERAL CONTRACTOR AT TIME OF UTILITY PII CONSTRUCTION. D" P						
67 68 69	' - 9" PII 5 - 9" PII 9 - 12" P							
70 71 72) - 10" P 11" C 14" P							
73 74 75	- 13" P - 13" P - 8" PII							
76 77	- 10" P - 9" PII							
78 79 80	- 12" P - 12" P - 12" P	SPRINKLER HEADS						
81 82 83	- 13" P - 12" P - 10" P	SYMBOL	MODEL NO.	GPM	RADIUS			
84 85 86	- 13" P - 11" P - 16" P	A	570-4EST	.45	4'x15'			
87 88	' - 14" P - 13" P	В	570-4SST	.90	4'x30'			
89 90 91) - 12" P) - 13" P 14" P	С	570-9SST	1.43	9'x18'			
- ±		D	570-5F	.4	5'			
		E	570-8F	1.00	8'			
		F	570-10F	1.50	10'			
		G	570-12F	2.20	12'			
		Н	570-15F	3.60	15'			
			316-00-02	2.90	21'			
		K	510-00-63	2./2	28			

NOTE: MODEL NUMBERS SHOWN REFLECT TORO SPRINKLER HEADS. ANY HEADS OF EQUAL QUALITY MAY BE USED WITH THE APPROVAL OF THE OWNER.

2.60

1" VALVES

40'

TOTAL IRRIGATED AREA = 27,670 SF REQUIRED IRRIGATION = 0.5"/WEEK TOTAL IRRIGATION DEMAND = 8,622 GAL/WEEK = 1,232 GPD IRRIGATION TO BE PROVIDED THRU 1" IRRIGATION METER

PLAN	J	PROJECT NO. 14-082 SCALE 1" = 40' DATE JULY 29, 2019 SHEET NO.	THIS ITEM HAS BEEN ELECTRONICALLY SIGNED AND SEALED BY: RICK ABT ON August 4, 2019 USING A DIGITAL SIGNATURE. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE	FLORIDA ENGINEERINGIGROUP, INC. BERTIFICATE No. EB 0006595
D BY	APPROVED BY GRC	L-2 SHEET 21 OF 22	VERIFIED ON ANY ELECTRONIC COPIES.	CF * CRICK ABT A LICENSE NO. 1321
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