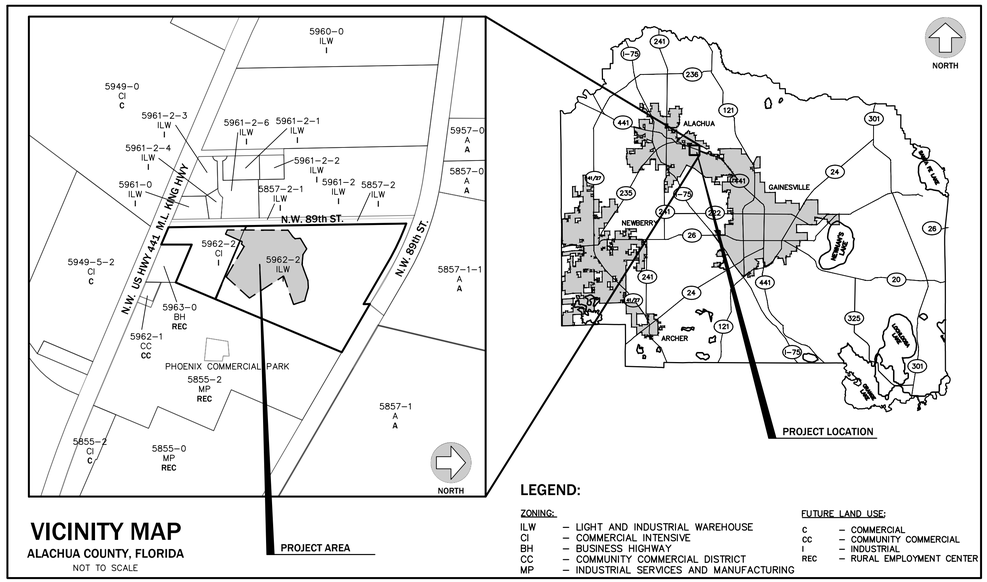
SAN FELASCO TECH CITY - PHASE 2

CITY OF ALACHUA, FLORIDA

DEVELOPMENT INFORMATION		
1.	PROJECT OWNER:	LASER INVESTMENT GROUP, LLC 3201 SW 42ND STR, SUITE 2 GAINESVILLE, FLORIDA 32608
2.	NAME OF PROJECT:	SAN FELASCO TECH CITY – PHASE 2
3.	PROJECT DESCRIPTION:	CONSTRUCTION OF A 6,000 S.F. OFFICE BUILDING AND TWO 30,100 S.F. BUILDINGS FOR R&D AND STORAGE WAREHOUSE USE, AND ASSOCIATED INFRASTRUCTURE IMPROVEMENTS
4.	PROJECT ADDRESS:	13025 AND 13051 NW US HWY 441
5.	TAX PARCEL NUMBER:	05962-002-000 (PORTION OF)
6.	SECTION/TOWNSHIP/RANGE:	SECTION 20, TOWNSHIP 08 SOUTH, RANGE 19 EAST
7.	ZONING:	COMMERCIAL INTENSIVE, LIGHT AND INDUSTRIAL WAREHOUSE
8.	FUTURE LAND USE DESIGNATION:	COMMERCIAL, INDUSTRIAL
9.	A FLOOD PLAIN IS LOCATED WITHIN THE PARCEL, BUT NO IMPACT IS PROPOSED WITH THIS PHASE OF THE PROJECT.	
10.	IRRIGATION SYSTEM IS PROVIDED FOR LANDSCAPED AREAS	
11.	THE PROJECT SITE WILL MEET ALL NPDES CRITERIA DURING AND AFTER CONSTRUCTION.	



VICINITY MAP
ALACHUA COUNTY, FLORIDA
NOT TO SCALE

LEGEND:

ZONING:
- ILW – LIGHT AND INDUSTRIAL WAREHOUSE
- CI – COMMERCIAL INTENSIVE
- BH – BUSINESS HIGHWAY
- CC – COMMUNITY COMMERCIAL DISTRICT
- MP – INDUSTRIAL SERVICES AND MANUFACTURING

FUTURE LAND USE:
- C – COMMERCIAL
- CC – COMMUNITY COMMERCIAL
- I – INDUSTRIAL
- REC – RURAL EMPLOYMENT CENTER

LEGAL DESCRIPTION

LEGAL DESCRIPTION: (PER OFFICIAL RECORDS BOOK 3842, PAGE 1386)

A PARCEL OF LAND LOCATED IN SECTION 20, TOWNSHIP 8 SOUTH, RANGE 19 EAST, ALACHUA COUNTY, FLORIDA AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCE AT A FOUND IRON PIN MARKING THE SOUTHEAST CORNER OF SECTION 20, TOWNSHIP 8 SOUTH, RANGE 19 EAST, ALACHUA COUNTY, FLORIDA; THENCE WEST A DISTANCE OF 1313.40 FEET TO A POINT; THENCE NORTH A DISTANCE OF 218.99 FEET TO A FOUND 3/4" IRON PIN MARKING A POINT ON THE NORTH RIGHT-OF-WAY LINE OF U. S. HIGHWAY NO. 441 (200 FOOT RIGHT-OF-WAY); THENCE ALONG SAID NORTH RIGHT-OF-WAY LINE; NORTH 72 DEG. 51 MIN. 49 SEC. WEST A DISTANCE OF 171.11 FEET TO A FOUND 5/8 INCH IRON PIN (FLORIDA D.O.T.) MARKING THE POINT OF CURVATURE OF A CURVE CONCAVE TO THE NORTHEAST, HAVING A DELTA OF 06 DEG. 52 MIN. 05 SEC., A RADIUS OF 11424.66 FEET AND A CHORD BEARING NORTH 69 DEG. 24 MIN. 13 SEC. WEST, 1368.62 FEET; THENCE ALONG THE ARC OF SAID CURVE A DISTANCE OF 1369.44 FEET TO A FOUND 6" X 6" CONCRETE MONUMENT (FLORIDA D.O.T.); THENCE NORTH 65 DEG. 59 MIN. 42 SEC. WEST A DISTANCE OF 1385.74 FEET TO A FOUND 5/8 INCH REBAR AND CAP (#3524); THENCE DEPARTING SAID NORTH RIGHT-OF-WAY LINE, NORTH 22 DEG. 09 MIN. 10 SEC. EAST A DISTANCE OF 159.44 FEET TO A FOUND 5/8 INCH REBAR AND CAP (#3524); THENCE NORTH 66 DEG. 13 MIN. 12 SEC. WEST A DISTANCE OF 229.98 FEET TO A FOUND 5/8 INCH REBAR AND CAP (#3524); THENCE NORTH 01 DEG. 33 MIN. 25 SEC. EAST A DISTANCE OF 169.02 FEET TO A FOUND 4" X 4" CONCRETE MONUMENT (PLS #940) MARKING THE POINT OF BEGINNING; THENCE NORTH 23 DEG. 50 MIN. 23 SEC. EAST A DISTANCE OF 2014.63 FEET TO A SET 5/8 INCH REBAR AND CAP (#3524) MARKING A POINT ON THE SOUTH RIGHT-OF-WAY LINE OF SEABOARD COAST LINE RAILROAD(200 FOOT RIGHT-OF-WAY); THENCE ALONG SAID SOUTH RIGHT-OF-WAY LINE OF SEABOARD COAST LINE RAILROAD, NORTH 58 DEG. 44 MIN. 53 SEC. WEST A DISTANCE OF 624.24 FEET TO A FOUND 5/8 INCH REBAR AND CAP (#3524); THENCE DEPARTING SAID SOUTH RIGHT-OF-WAY LINE, SOUTH 00 DEG. 37 MIN. 49 SEC. EAST A DISTANCE OF 70.65 FEET TO A FOUND 5/8 INCH REBAR AND CAP (#3524); THENCE NORTH 58 DEG. 44 MIN. 53 SEC. WEST A DISTANCE OF 547.93 FEET TO A FOUND 5/8 INCH REBAR AND CAP (#3524) MARKING THE POINT OF CURVATURE OF A CURVE CONCAVE TO THE SOUTHWEST, HAVING A DELTA OF 10 DEG. 00 MIN. 21 SEC., A RADIUS OF 2712.57 FEET AND A CHORD BEARING NORTH 63 DEG. 45 MIN. 03 SEC. WEST, 473.11 FEET; THENCE ALONG THE ARC OF SAID CURVE A DISTANCE OF 473.71 FEET TO A FOUND 5/8 INCH REBAR AND CAP (#3524); THENCE SOUTH 00 DEG. 08 MIN. 45 SEC. WEST A DISTANCE OF 2657.79 FEET TO A FOUND 5/8 INCH REBAR AND CAP (#3524) MARKING A POINT ON SAID NORTH RIGHT-OF-WAY LINE OF U. S. HIGHWAY NO. 441; THENCE ALONG SAID NORTH RIGHT-OF-WAY LINE, SOUTH 66 DEG 00 MIN. 09 SEC. EAST A DISTANCE OF 209.40 FEET TO A FOUND 4" X 4" CONCRETE MONUMENT; THENCE DEPARTING SAID NORTH RIGHT-OF-WAY LINE, NORTH 01 DEG. 07 MIN. 22 SEC. EAST A DISTANCE OF 340.98 FEET TO A FOUND 4" X 4" CONCRETE MONUMENT; THENCE SOUTH 65 DEG. 57 MIN. 03 SEC. EAST A DISTANCE OF 460.08 FEET TO THE POINT OF BEGINNING.

TOGETHER WITH A PERPETUAL, NON-EXCLUSIVE AND UNRESTRICTED EASEMENT OVER, UNDER AND ACROSS THE FOLLOWING TWO PARCELS OF REAL PROPERTY.

EASEMENT PARCEL #1

COMMENCE AT THE HALF MILE CORNER OR THE NORTH LINE OF SECTION 19, TOWNSHIP 8 SOUTH, RANGE 19 EAST, AND RUN SOUTH 499.11 FEET TO THE SOUTHERLY RIGHT-OF-WAY LINE OF THE SEABOARD COASTLINE RAILROAD; THENCE RUN, SOUTH 81 DEG. 45' 10" EAST ALONG SAID SOUTHERLY RIGHT-OF-WAY LINE 2797.03 FEET TO THE P.C. OF A CURVE CONCAVE TO THE SOUTHWEST AND HAVING A RADIUS AT 2764.93 FEET; THENCE RUN SOUTHEASTERLY ALONG SAID SOUTHERLY RIGHT-OF-WAY LINE AN ARC DISTANCE OF 498.99 FEET TO A CONCRETE MONUMENT AT THE NORTHWEST CORNER OF GENERAL ELECTRIC CO. PROPERTY, SAID POINT BEING THE P.O.B.; THENCE CONTINUE SOUTHEASTERLY ALONG SAID RIGHT-OF-WAY AN ARC DISTANCE OF 31.68 FEET AND A CHORD BEARING AND DISTANCE OF SOUTH 7L DEG. 06' 52" EAST 31.68 FEET; THENCE RUN SOUTH 00 DEG. 08'45" WEST PARALLEL WITH AND 30 FEET FROM THE WEST LINE OF SAID GENERAL ELECTRIC CO. PROPERTY, 2718.29 FEET TO THE NORTHERLY RIGHT-OF-WAY LINE AT U.S. HIGHWAY NO. 441 (STATE ROAD NO. 25); THENCE RUN NORTH 66 DEG. 00' 06" WEST ALONG SAID RIGHT-OF-WAY LINE 32.8 FEET TO THE SOUTHWEST CORNER OF SAID PROPERTY, BEING A CONCRETE MONUMENT; THENCE RUN NORTH 00 DEG. 08' 45" EAST ALONG THE WEST LINE AT SAID PROPERTY 2715.11 FEET TO THE P.O.B., BEING AND LYING IN SECTION 30, TOWNSHIP 8 SOUTH, RANGE 19 EAST, ALACHUA COUNTY, FLORIDA.

EASEMENT PARCEL #1

COMMENCE AT THE HALF MILE CORNER ON THE NORTH LINE OR SECTION 19, TOWNSHIP 8 SOUTH, RANGE 19 EAST AND RUN SOUTH 499.11 FEET TO THE SOUTHERLY RIGHT-OF-WAY LINE OF THE SEABOARD COASTLINE RAILROAD; THENCE RUN SOUTH 81 DEG. 45' 18" EAST ALONG SAID SOUTHERLY RIGHT-OF-WAY LINE 2797.03 FEET TO THE P.C. OF A CURVE CONCAVE TO THE SOUTHWEST AND HAVING A RADIUS OF 2764.93 FEET; THENCE RUN SOUTHEASTERLY ALONG SAID SOUTHERLY RIGHT-OF-WAY LINE AN ARC DISTANCE OF 498.99 FEET TO A CONCRETE MONUMENT AT THE NORTHWEST CORNER OF GENERAL ELECTRIC CO. PROPERTY; THENCE CONTINUE SOUTHEASTERLY ALONG SAID SOUTHERLY RIGHT-OF-WAY LINE AN ARC DISTANCE OF 31.68 FEET AND A CHORD BEARING AND DISTANCE OF SOUTH 71 DEG. 06' 52" EAST 31.68 FEET TO THE P.O.B.; THENCE CONTINUE SOUTHEASTERLY ALONG SAID SOUTHERLY RIGHT-OF-WAY LINE AN ARC DISTANCE OF 582.25 FEET AND A CHORD BEARING AND DISTANCE OF SOUTH 64 DEG. 45' 10" EAST 581.11 FEET TO THE P.T. OF SAID CURVE; THENCE CONTINUE ALONG SAID RIGHT-OF-WAY LINE SOUTH 58 DEG. 43' 12" EAST 510.61 FEET; THENCE RUN SOUTH 00 DEG. 37' 54" EAST 70.68 FEET; THENCE RUN NORTH 58 DEG. 43' 12" WEST PARALLEL WITH AND 60 FEET FROM THE SOUTHERLY RIGHT-OF-WAY LINE OF SAID RAILROAD, 547.97 FEET TO THE P.C. OF A CURVE CONCAVE TO THE SOUTHWEST AND HAVING A RADIUS AT 2704.93 FEET; THENCE RUN NORTHWESTERLY ALONG SAID CURVE AN ARC DISTANCE OF 484.91 FEET AND A CHORD BEARING AND DISTANCE OF NORTH 63 DEG. 51' 21" WEST 484.26 FEET; THENCE RUN SOUTH 08 DEG. 08' 45" WEST PARALLEL WITH AND 90 FEET EAST OF THE WEST LINE OF SAID G. E. PROPERTY 2659.10 FEET TO THE NORTH RIGHT-OF-WAY LINE OF U.S. HIGHWAY NO. 441 (STATE ROAD NO. 25); THENCE RUN NORTH 66 DEG. 00' 06" WEST ALONG SAID RIGHT-OF-WAY LINE 65.6 FEET; THENCE RUN NORTH 00 DEG. 08' 45" EAST 2718.2 FEET TO THE P.O.B. BEING AND LYING IN SECTION 20, TOWNSHIP 8 SOUTH, RANGE 19 EAST, ALACHUA COUNTY, FLORIDA.

PROJECT AREA IMPERVIOUS AREA CALCULATIONS

#	DESCRIPTION	SQUARE FOOTAGE (S.F.)	ACREAGE (AC.)	PERCENTAGE (%)
1.	TOTAL PROJECT AREA:	554,717 S.F.	12.73 AC.	100.00%
2.	PROPOSED BUILDING COVERAGE:	66,200 S.F.	1.52 AC.	11.64%
3.	PAVEMENT AND SIDEWALK AREA:	109,062 S.F.	2.50 AC.	19.64%
4.	TOTAL IMPERVIOUS AREA:	175,226 S.F.	4.02 AC.	31.58%
5.	OPEN AREA:	379,491 S.F.	8.71 AC.	68.42%
6.	FLOOR TO AREA RATIO:	65,300 BUILDING AREA SF: 554,717 PROJECT AREA SF=0.12		

TOTAL SITE IMPERVIOUS AREA CALCULATIONS

#	DESCRIPTION	SQUARE FOOTAGE (S.F.)	ACREAGE (AC.)	PERCENTAGE (%)
1.	TOTAL SITE AREA:	2,411,418 S.F.	55.36 AC.	100.00%
2.	TOTAL BUILDING COVERAGE:	126,400 S.F.	2.90 AC.	5.24%
3.	TOTAL PAVEMENT AND SIDEWALK AREA:	228,228 S.F.	5.24 AC.	9.47%
4.	TOTAL IMPERVIOUS AREA:	354,592 S.F.	8.14 AC.	14.70%

PARKING CALCULATIONS

#	DESCRIPTION	CRITERIA	REQUIRED (MIN.)	REQUIRED (MAX.)	PROVIDED
1.)	VEHICULAR PARKING				
	OFFICE BUILDING	1 PARKING SPACE PER 330 SF OFFICE X 6,000 S.F.	18	23	SEE TOTAL BELOW
	BUILDING C	1 PARKING SPACE PER 350 SF AREA OFFICES, LABORATORIES, AND SPACES SUPPORTING OFFICES AND LABORATORIES X 25,500 S.F.	73	91	SEE TOTAL BELOW
		1 PARKING SPACE PER 1,000 SF LIGHT MANUFACTURING X 4,600 S.F.	5	6	SEE TOTAL BELOW
	BUILDING D	1 PARKING SPACE PER 350 SF AREA OFFICES, LABORATORIES, AND SPACES SUPPORTING OFFICES AND LABORATORIES X 25,500 S.F.	73	91	SEE TOTAL BELOW
		1 PARKING SPACE PER 1,000 SF LIGHT MANUFACTURING X 4,600 S.F.	5	6	SEE TOTAL BELOW
		TOTAL	174	217	175 INCLUDING 8 HANDICAP SPACES
2.)	BICYCLE PARKING	10% OF REQUIRED NUMBER OF VEHICLE PARKING	174 SPACES X 0.10= 17 SPACES	N/A	20 SPACES & 10 RACKS
3.)	MOTORCYCLE PARKING	N/A	N/A	N/A	N/A

TRIP GENERATION

SOURCE: ITE TRIP GENERATION, 10TH EDITION

ITE 770 – BUSINESS PARK

				TRIP DISTRBUTION		PROJECTED TRIPS	
66,200	SF						
PERIOD	RATE	PER UNIT	TRIPS	ENTER	EXIT	IN	OUT
AM	0.40	66.20	26	0.61	0.39	16	10
PM	0.42	66.20	28	0.46	0.54	13	15
AVG	12.44	66.20	824	0.50	0.50	412	412

ROADWAY LEVEL OF SERVICE (LOS) ANALYSIS

SEGMENT ID:	SEGMENT LIMITS:	LOS-D		EXISTING	RES'VD	PROJECTED TRIPS	AVAILABLE
U.S. HWY 441 (3/4)	FROM NW 126TH AVE TO SR 235	AADT	45,700	18,579	1,746	412	24,963
		PEAK HOUR	4,110	1,765	250	16	2,079

SOURCE: CITY OF ALACHUA PLANNING DEPARTMENT AS OF MARCH 2019

DRAWING INDEX

engineers • surveyors • planners
EB 2389
2404 N.W. 43rd ST, GAINESVILLE, FLORIDA 32606-6602
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No.	Date	Comment

Professional Engineer of Record:
SERGIO J. REYES LICENSED No. 47311 STATE OF FLORIDA PROFESSIONAL ENGINEER
Sergio J. Reyes, P.E. 47311
Engineer Certificate No.

Project No: 18-162

Project phase: CITY SUBMITTAL

Project title: SAN FELASCO TECH CITY PHASE 2 CITY OF ALACHUA, FLORIDA

Sheet title: COVER SHEET

Designed: DJM
Drawn: JAB/MAB
Checked: SJR
Date: 03/26/19

Sheet No.: C001

EXISTING SYMBOLS & ABBREVIATIONS

C/L	=	CENTERLINE
cmp	=	CORRUGATED METAL PIPE
CONC	=	CONCRETE
COR	=	CORNER
D	=	DELTA (CENTRAL) ANGLE
R	=	RADIUS
A	=	ARC
T	=	TANGENT
CB	=	CHORD BEARING
CD	=	CHORD DISTANCE
dip	=	DUCTILE IRON PIPE
ELEV	=	ELEVATION
ecmp	=	ELLIPTICAL CORRUGATED METAL PIPE
ercp	=	ELLIPTICAL REINFORCED CONCRETE PIPE
ID.	=	IDENTIFICATION
inv	=	INVERT
F.D.O.T.	=	FLORIDA DEPARTMENT OF TRANSPORTATION
F.F.	=	FINISHED FLOOR
M.E.S.	=	MITERED END SECTION
No.	=	NUMBER
O.R.	=	OFFICIAL RECORDS BOOK
PGS.	=	PAGES
PVC	=	POLY-VINYL CHLORIDE
RCP	=	REINFORCED CONCRETE PIPE
R/W	=	RIGHT OF WAY
SEC 28-9-19	=	SECTION 28, TOWNSHIP 9 SOUTH, RANGE 19 EAST
TRAN	=	ELECTRICAL TRANSFORMER PAD
w/	=	WITH
ANCH	=	GUY ANCHOR
BO	=	WATER BLOW OFF
CO	=	SANITARY CLEAN-OUT
	=	FOUND CONCRETE MONUMENT (size, ID)
	=	FOUND DRILL HOLE
	=	FOUND IRON PIPE (size, ID)
	=	FOUND NAIL & DISK (ID)
	=	FOUND REBAR & CAP (size, ID)
	=	FOUND SPIKE
GM	=	GAS METER
GV	=	GAS VALVE
GP	=	GUY POLE
HH	=	ELECTRICAL HANDHOLE
FH	=	FIRE HYDRANT
IRRIG VLV	=	IRRIGATION VALVE
LT PL	=	LIGHT POLE
MBOX	=	MAIL BOX
	=	MANHOLE
PP	=	POWER POLE
	=	SET 5/8" REBAR & CAP (LB 2389)
	=	SET CONCRETE MONUMENT (PRM LB 2389)
	=	SET NAIL & DISC (PRM LB 2389)
	=	SET SPIKE
	=	SHRUB
	=	SIGN
TELBX	=	TELEPHONE RISER
TVBOX	=	CABLE TELEVISION RISER
WM	=	WATER METER
WV	=	WATER VALVE
80	=	ELEVATION CONTOUR LINE
X X	=	FENCE LINE
OHGW	=	OVERHEAD GUY WIRE
OHPL	=	OVERHEAD POWER LINE
OHTL	=	OVERHEAD TELEPHONE LINE
OHTV	=	OVERHEAD TELEVISION LINE
SS	=	SANITARY SEWER LINE
UCE	=	UNDERGROUND ELECTRIC LINE
GAS	=	UNDERGROUND GAS LINE
UGT	=	UNDERGROUND TELEPHONE LINE
UGTV	=	UNDERGROUND CABLE TELEVISION LINE
WL	=	UNDERGROUND WATER LINE
88.95 X	=	SPOT ELEVATION

TREE LEGEND

THE ONLY TREES LOCATED FOR THIS SURVEY WERE HARDWOODS 8" AND GREATER AND PINES 12" AND GREATER (DIAMETER MEASURED AT BREAST HEIGHT)

LOCATION / SPECIES / DIAMETER AT BREAST HEIGHT IN INCHES

		SIZE/COMMON NAME
ba10.	=	10" BAY
cb11.	=	11" CHINABERRY
ce11.	=	11" CEDAR
ch12.	=	12" CHERRY
cht10.	=	10" CHINESE TALLOW
hi11.	=	11" HICKORY
lao12.	=	12" LAUREL OAK
lo15.	=	15" LIVE OAK
mb12.	=	12" MULBERRY
mg18.	=	18" MAGNOLIA
pa18.	=	18" PALM
pi14.	=	14" PINE
po9.	=	9" POST OAK
sb11.	=	11" SUGARBERRY
sg17.	=	17" SWEETGUM
tko11.	=	11" TURKEY OAK
tree18.	=	18" UNIDENTIFIED TREE
wo14.	=	14" WATER OAK

LEGEND

	TREE BARRICADE
	SILT FENCE
(TBR)	EXISTING FEATURES TO BE REMOVED (TBR)
	LIMITS OF EXISTING ASPHALT PAVEMENT, CONCRETE AND/OR BUILDING TO BE REMOVED
	LIMITS OF ASPHALT PAVEMENT
	LIMITS OF CONCRETE PAVEMENT AND SIDEWALKS
	PEDESTRIAN WALKWAY (SEE SHEET C2.10 FOR DETAILS, MATERIAL AND INSTALLATION)
pi20	EXISTING TREE TO REMAIN
X pi20	EXISTING TREE TO BE REMOVED
180.00	EXISTING SPOT ELEVATION
180.00	PROPOSED SPOT ELEVATION
183.25	PROPOSED CONTOUR ELEVATION
183	EXISTING CONTOUR ELEVATION

PROPOSED UTILITY SYMBOLS

WM	WATER MAIN, PROPOSED
WM	WATER MAIN, EXISTING
WW	WASTEWATER GRAVITY MAIN, PROPOSED
	PLUG END AND CAP
	BLOW-OFF ASSEMBLY
	GATE VALVE & BOX
	BUTTERFLY VALVE
	PLUG VALVE
	SWING CHECK VALVE
	BACK FLOW PREVENTER
RP	REDUCED PRESSURE ZONE BFP
DC	DOUBLE CHECK BFP
	DUAL CHECK VALVE
ARV	AIR RELEASE VALVE
	REDUCER FITTING
R	PRESSURE REGULATOR
	POST INDICATOR VALVE
	CLEAN OUT OR ROOF DRAIN LATERAL
	FITTING W/ THRUST BLOCK
	FIRE HYDRANT W/ THRUST BLOCK
	FIRE HYDRANT ASSEMBLY
	POTABLE WATER METER
	SINGLE SERVICE WATER METER
	DUAL SERVICE WATER METER
	GANG WATER METER ASSEMBLY
TX	ELECTRIC TRANSFORMER
	RECLAIMED WATER METER ASSEMBLY
RCW	RECLAIMED WATER MAIN, PROPOSED
RCW	PLUG END AND CAP
RCW	BLOW-OFF ASSEMBLY
RCW	GATE VALVE & BOX
RCW	REDUCER FITTING
FM	WASTEWATER (PRESSURE) MAIN, PROPOSED
SS	SANITARY SEWER MAIN, PROPOSED
SS	SANITARY SEWER MAIN, EXISTING
SS	SANITARY SEWER MANHOLE, PROPOSED
SS	SANITARY SEWER MANHOLE, EXISTING
	SANITARY SEWER PLUG
	PLUG VALVE
	SEWER LATERAL, SINGLE SERVICE
	GATE VALVE
	CHECK VALVE
A. R.	AIR RELEASE VALVE

GENERAL NOTES

1. LOCATIONS, ELEVATIONS, AND DIMENSIONS OF EXISTING UTILITIES, STRUCTURES AND OTHER FEATURES ARE SHOWN ACCORDING TO THE BEST INFORMATION AVAILABLE AT THE TIME OF PREPARATION OF THESE PLANS. THE CONTRACTOR SHALL VERIFY THE LOCATIONS, ELEVATIONS, AND DIMENSIONS OF ALL EXISTING UTILITIES, STRUCTURES AND OTHER FEATURES, AFFECTING THIS WORK, PRIOR TO CONSTRUCTION.
2. PRIOR TO THE INITIATION OF SITE CONSTRUCTION, THE CONTRACTOR SHALL VERIFY ANY EXISTING UTILITIES INCLUDING GAS, WATER, ELECTRIC, CABLE TV, COMMUNICATIONS, SANITARY SEWERS AND STORM DRAINAGE SYSTEMS, ON AND/OR ADJACENT TO THE SITE. REMOVE OR CAP AS NECESSARY. CONTACT ENGINEER OF RECORD IMMEDIATELY WITH ANY DISCREPANCIES.
3. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY DAMAGE TO EXISTING FACILITIES, ABOVE OR BELOW GROUND, THAT MAY OCCUR AS A RESULT OF THE WORK PERFORMED, BY THE CONTRACTOR OR SUB-CONTRACTORS, AS CALLED FOR IN THESE CONTRACT DOCUMENTS.
4. CONTRACTOR TO COORDINATE WITH UTILITY COMPANIES FOR THE RELOCATION OF EXISTING UTILITIES. UTILITIES NEEDING TO BE REMOVED OR RELOCATED SHALL BE COORDINATED WITH THE AFFECTED UTILITY COMPANY. ADEQUATE TIME SHALL BE PROVIDED FOR RELOCATION, AND CLOSE COORDINATION WITH THE UTILITY COMPANY IS NECESSARY TO PROVIDE A SMOOTH TRANSITION IN UTILITY SERVICE. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANY CONCERNING PORTIONS OF THE WORK WHICH MAY BE PERFORMED BY THE UTILITY COMPANY'S FORCES AND ANY FEES WHICH ARE TO BE PAID TO THE UTILITY COMPANY FOR THEIR SERVICES. THE CONTRACTOR IS RESPONSIBLE FOR PAYING ALL FEES AND CHARGES.
5. IT IS THE CONTRACTOR'S RESPONSIBILITY TO BECOME FAMILIAR WITH THE PERMIT AND INSPECTION REQUIREMENTS SPECIFIED BY THE VARIOUS GOVERNMENTAL AGENCIES AND THE ENGINEER. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS PRIOR TO CONSTRUCTION, AND SCHEDULE INSPECTIONS ACCORDING TO AGENCY INSTRUCTION/REQUIREMENTS.
6. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS, ON ALL PRECAST AND MANUFACTURED ITEMS, TO THE OWNER'S ENGINEER FOR REVIEW. FAILURE TO OBTAIN APPROVAL BEFORE INSTALLATION MAY RESULT IN REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE.
7. SAFETY:
   A. DURING THE CONSTRUCTION AND/OR MAINTENANCE OF THIS PROJECT, ALL SAFETY REGULATIONS ARE TO BE ENFORCED. THE CONTRACTOR OR HIS REPRESENTATIVE SHALL BE RESPONSIBLE FOR THE CONTROL AND SAFETY OF THE TRAVELING PUBLIC AND THE SAFETY OF HIS/HER PERSONNEL.
   B. LABOR SAFETY REGULATIONS SHALL CONFORM TO THE PROVISIONS SET FORTH BY OSHA.
   C. THE MINIMUM STANDARDS AS SET FORTH IN THE CURRENT EDITION OF "THE STATE OF FLORIDA, MANUAL ON TRAFFIC CONTROL AND SAFE PRACTICES FOR STREET AND HIGHWAY CONSTRUCTION, MAINTENANCE AND UTILITY OPERATIONS" SHALL BE FOLLOWED IN THE DESIGN, APPLICATION, INSTALLATION, MAINTENANCE AND REMOVAL OF ALL TRAFFIC CONTROL DEVICES, WARNING DEVICES AND BARRIERS NECESSARY TO PROTECT THE PUBLIC AND CONSTRUCTION PERSONNEL FROM HAZARDS WITHIN THE PROJECT LIMITS.
   D. ALL TRAFFIC CONTROL MARKINGS AND DEVICES SHALL CONFORM TO THE PROVISIONS SET FORTH IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES PREPARED BY THE U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION.
   E. ALL SUBSURFACE CONSTRUCTION SHALL COMPLY WITH THE "TRENCH SAFETY ACT". THE CONTRACTOR SHALL INSURE THAT THE METHOD OF TRENCH PROTECTION AND CONSTRUCTION IS IN COMPLIANCE WITH THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) REGULATIONS.
   F. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO COMPLY AND ENFORCE ALL APPLICABLE SAFETY REGULATIONS. THE ABOVE INFORMATION HAS BEEN PROVIDED FOR THE CONTRACTOR'S INFORMATION ONLY AND DOES NOT IMPLY THAT THE OWNER OR ENGINEER WILL INSPECT AND/OR ENFORCE SAFETY REGULATIONS.
8. ALL UNDERGROUND UTILITIES MUST BE IN-PLACE, TESTED AND INSPECTED PRIOR TO BASE AND SURFACE CONSTRUCTION.
9. CONTRACTOR IS REQUIRED TO SECURE A FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP) "NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM" (NPDES) PERMIT BEFORE BEGINNING CONSTRUCTION.
10. A COMPLETE SET OF PERMITTED DRAWINGS AND SPECIFICATIONS MUST BE MAINTAINED ON SITE AT ALL TIMES THAT THE CONTRACTOR IS PERFORMING WORK. THESE DRAWINGS SHALL BE MADE AVAILABLE UPON REQUEST.
11. ALL EROSION AND SEDIMENT CONTROL DEVICES SHALL BE CONSTRUCTED SIMULTANEOUSLY WITH THE DISTURBANCE OF THE LAND AND SHALL REMAIN FUNCTIONAL UNTIL THE CONTRIBUTING DISTURBED AREAS ARE STABILIZED. SILT BARRIERS WILL BE INSTALLED AS NECESSARY TO PREVENT EXCESSIVE SEDIMENTATION OF DOWNSTREAM AREAS.
12. CONTRACTOR SHALL PROVIDE CITY AS-BUILT PLANS (IF REQUIRED BY THE CITY AND/OR ANY OTHER AGENCY), SIGNED AND SEALED BY A FLORIDA REGISTERED ENGINEER OR SURVEYOR AND A CERTIFIED PAPER COPY WITH ELECTRONIC COPY IN AUTOCAD FORMAT PRIOR TO FINAL ACCEPTANCE.
13. THE CONTRACTOR SHALL CONSTRUCT GRAVITY SEWER LATERALS, MANHOLES GRAVITY SEWER LINES AND DOMESTIC WATER AND FIRE PROTECTION SYSTEM AS SHOWN ON THESE PLANS. THE CONTRACTOR SHALL FURNISH ALL NECESSARY MATERIALS, EQUIPMENT, MACHINERY, TOOLS, MEANS OF TRANSPORTATION AND LABOR NECESSARY TO COMPLETE THE WORK IN FULL AND COMPLETE ACCORDANCE WITH THE SHOWN, DESCRIBED AND REASONABLY INTENDED REQUIREMENTS OF THE CONTRACT DOCUMENTS AND JURISDICTIONAL AGENCY REQUIREMENTS. IN THE EVENT THAT THE CONTRACT DOCUMENTS AND THE JURISDICTIONAL AGENCY REQUIREMENTS ARE NOT IN AGREEMENT, THE MOST STRINGENT SHALL GOVERN.
14. CONTRACTOR TO FOLLOW ALL CRITERIA SET FORTH BY THE CITY OF ALACHUA REQUIREMENTS FOR POTABLE WATER, RECLAIMED WATER, AND WASTEWATER.

DEMOLITION NOTES

1. ALL MATERIAL REMOVED FROM THIS SITE BY THE CONTRACTOR SHALL BE DISPOSED OF BY THE CONTRACTOR IN A LEGAL MANNER.
2. REFER TO THE TOPOGRAPHIC SURVEY FOR ADDITIONAL DETAILS OF EXISTING STRUCTURES, ETC., LOCATED WITHIN THE PROJECT SITE. UNLESS OTHERWISE NOTED, ALL EXISTING BUILDINGS, STRUCTURES, SLABS, CONCRETE, ASPHALT, DEBRIS PILES, SIGNS, AND ALL APPURTENANCES ARE TO BE REMOVED FROM THE SITE BY THE CONTRACTOR AND PROPERLY DISPOSED OF IN A LEGAL MANNER AS PART OF THIS CONTRACT. SOME ITEMS TO BE REMOVED MAY NOT BE DEPICTED ON THE TOPOGRAPHIC SURVEY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VISIT THE SITE AND DETERMINE THE FULL EXTENT OF ITEMS TO BE REMOVED. IF ANY ITEMS ARE IN QUESTION, THE CONTRACTOR SHALL CONTACT THE OWNER PRIOR TO REMOVAL OF SAID ITEMS.
3. THE CONTRACTOR SHALL REFER TO THE DEMOLITION PLAN FOR DEMOLITION / PRESERVATION OF EXISTING TREES. ALL TREES NOT SPECIFICALLY SHOWN TO BE PRESERVED OR RELOCATED SHALL BE REMOVED AS A PART OF THIS CONTRACT. TREE PROTECTION FENCING SHALL BE INSTALLED PRIOR TO ANY DEMOLITION.
4. CONTRACTOR SHALL SUBMIT DEMOLITION SCHEDULE TO OWNER PRIOR TO PROCEEDING WITH DEMOLITION ACTIVITIES.
5. CONDUCT SITE DEMOLITION OPERATIONS TO ENSURE MINIMUM INTERFERENCE WITH ROADS, STREETS, WALKS, AND OTHER ADJACENT OCCUPIED OR USED FACILITIES. DO NOT CLOSE OR OBSTRUCT STREETS, WALKS, OR OTHER OCCUPIED OR USED FACILITIES WITHOUT PERMISSION FROM AUTHORITIES HAVING JURISDICTION. CLOSURE OF THESE FACILITIES MAY REQUIRE A MAINTENANCE OF TRAFFIC PLAN PREPARED BY A REGISTERED PROFESSIONAL AT THE CONTRACTORS EXPENSE.
6. PROVIDE PROTECTION AS NECESSARY TO PREVENT DAMAGE TO EXISTING IMPROVEMENTS SHOWN IN THE PLANS TO REMAIN.
7. LOCATE EXISTING ABOVE GROUND AND UNDERGROUND UTILITIES IN AREAS OF WORK. IF UTILITIES ARE TO REMAIN IN PLACE, PROVIDE ADEQUATE MEANS OF SUPPORT AND PROTECTION DURING DEMOLITION AND CONSTRUCTION OPERATIONS.
8. CONTRACTOR SHALL COORDINATE WITH APPLICABLE UTILITY COMPANIES FOR THE TERMINATION, CAPPING-OFF AND REMOVAL OF ALL EXISTING UNDERGROUND AND ABOVE GROUND UTILITY SERVICES UNLESS DIRECTED TO OTHERWISE.

CONSTRUCTION NOTES

1. SIGNS AND BARRICADES SHALL BE IN ACCORDANCE WITH THE U.S. DEPARTMENT OF TRANSPORTATION'S "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES", AND THE FLORIDA DEPARTMENT OF TRANSPORTATION'S "ROADWAY AND TRAFFIC DESIGN STANDARDS" INDEXES 600 THROUGH 685 (LATEST EDITIONS).
2. SAFE PEDESTRIAN TRAFFIC IS TO BE MAINTAINED AT ALL TIMES.
3. ANY SIDEWALK WHICH BECOMES UNDERMINED MUST BE REMOVED AND REPLACED. SIDEWALKS ARE TO BE RECONSTRUCTED WITHIN THREE (3) DAYS AFTER REMOVAL. WHEN EXISTING SIDEWALK IS REMOVED, IT IS TO BE REMOVED TO THE NEAREST JOINT.
4. DISTURBED AREA WITHIN THE R-O-W WILL BE COMPACTED TO 98% OF MAXIMUM DENSITY AND SODDED.
5. STOCKPILING OF MATERIAL IS NOT ALLOWED ON ROADWAYS OR SIDEWALKS. ALL DIRT AND DEBRIS WILL BE REMOVED FROM JOB SITE DAILY. ROADS AND SIDEWALKS ARE TO BE SWEPT DAILY AS PART OF DAILY CLEANUP.
6. ANY PORTION OF ROADWAYS OR SIDEWALKS THAT SUSTAIN EXCESSIVE CONSTRUCTION RELATED DAMAGE, IN THE OPINION OF APPLICABLE AGENCIES, SHALL BE REPAIRED AT CONTRACTOR EXPENSE IN A MANNER SPECIFIED BY THAT PARTICULAR AGENCY.
7. CONSTRUCTION MUST BE PER THE APPROVED SITE PLAN OF THE DRC (OR EQUIVALENT). DEVIATIONS IN ROADWAY, UTILITY OR DRAINAGE CONSTRUCTION WILL REQUIRE PRIOR WRITTEN APPROVAL OF THE CITY ENGINEER OR THE DIRECTOR OF PUBLIC SERVICES (OR EQUIVALENT). NOTE: SIGNIFICANT CHANGES FROM THE DRC APPROVED PLAN MAY REQUIRE THE OWNER/DEVELOPER TO SUBMIT A REVISED SITE PLAN FOR REVIEW THROUGH THE DRC AND MAY CAUSE PROJECT DELAYS.
8. OFF-SITE OR ROADWAY R-O-W CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL CONDITIONS OF THE APPROVED R-O-W PERMIT(S). A COPY OF THE APPROVED R-O-W PERMIT MUST BE KEPT ON-SITE AND READILY AVAILABLE DURING ALL CONSTRUCTION ACTIVITIES WITHIN THE R-O-W.
9. DURING THE CONSTRUCTION AND/OR MAINTENANCE OF THIS PROJECT, ALL SAFETY REGULATIONS ARE TO BE ENFORCED. THE CONTRACTOR OR HIS REPRESENTATIVE SHALL BE RESPONSIBLE FOR THE CONTROL AND SAFETY OF THE TRAVELING PUBLIC AND THE SAFETY OF HIS/HER PERSONNEL.
10. ALL CONSTRUCTION, MATERIALS AND WORKMANSHIP ARE TO BE IN ACCORDANCE WITH FLORIDA DEPARTMENT OF TRANSPORTATION SPECIFICATIONS AND STANDARDS.
11. CONTRACTOR IS RESPONSIBLE FOR CHECKING ACTUAL SITE CONDITIONS BEFORE STARTING CONSTRUCTION.
12. ANY DISCREPANCIES ON THE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE COMMENCING WORK.
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED CONSTRUCTION PERMITS AND BONDS IF REQUIRED PRIOR TO CONSTRUCTION.
14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING TO THE ENGINEER A CERTIFIED RECORD SURVEY SIGNED AND SEALED BY A PROFESSIONAL LAND SURVEYOR REGISTERED IN THE STATE OF FLORIDA DEPICTING THE ACTUAL FIELD LOCATION OF ALL CONSTRUCTED IMPROVEMENTS THAT ARE REQUIRED BY THE JURISDICTIONAL AGENCIES FOR THE CERTIFICATION PROCESS. ALL SURVEY COSTS WILL BE THE CONTRACTORS RESPONSIBILITY. BOTH PAPER AND AUTOCAD FILES SHALL BE PROVIDED.
15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DOCUMENTING AND MAINTAINING AS-BUILT INFORMATION WHICH SHALL BE RECORDED AS CONSTRUCTION PROGRESSES OR AT THE COMPLETION OF APPROPRIATE CONSTRUCTION INTERVALS AND SHALL BE RESPONSIBLE FOR PROVIDING AS-BUILT DRAWINGS TO THE OWNER FOR THE PURPOSE OF CERTIFICATION TO JURISDICTIONAL AGENCIES AS REQUIRED. BOTH PAPER AND AUTOCAD SHALL BE PROVIDED.

EROSION CONTROL NOTES

1. THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) IS COMPRISED OF THE EROSION CONTROL PLAN, THE STANDARD DETAILS, THE PLAN NARRATIVE, ATTACHMENTS REFERENCED BY THE SWPPP, PLUS THE PERMIT AND ALL SUBSEQUENT REPORTS AND RELATED DOCUMENTS.
2. ALL CONTRACTORS AND SUBCONTRACTORS INVOLVED WITH STORM WATER POLLUTION PREVENTION SHALL OBTAIN A COPY OF THE STORM WATER POLLUTION PREVENTION PLAN AND THE STATE OF FLORIDA NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM GENERAL PERMIT (NPDES PERMIT) AND BECOME FAMILIAR WITH THEIR CONTENTS.
3. THE CONTRACTOR SHALL IMPLEMENT BEST MANAGEMENT PRACTICES AS REQUIRED BY THE SWPPP. ADDITIONAL BEST MANAGEMENT PRACTICES SHALL BE IMPLEMENTED AS DICTATED BY CONDITIONS AT NO ADDITIONAL COST TO THE OWNER THROUGHOUT ALL PHASES OF CONSTRUCTION.
4. PERMITS FOR ANY CONSTRUCTION ACTIVITY IMPACTING STATE WATERS OR REGULATED WETLANDS MUST BE MAINTAINED ON SITE AT ALL TIMES.
5. ALL WASH WATER (CONCRETE TRUCKS, VEHICLE CLEANING, EQUIPMENT CLEANING, ETC.) SHALL BE DETAINED AND PROPERLY TREATED OR DISPOSED.
6. SUFFICIENT OIL AND GREASE ABSORBING MATERIALS AND FLOTATION BOOMS SHALL BE MAINTAINED ON SITE OR READILY AVAILABLE TO CONTAIN AND CLEAN-UP FUEL OR CHEMICAL SPILLS AND LEAKS.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DUST CONTROL ON SITE. THE USE OF MOTOR OILS AND OTHER PETROLEUM BASED OR TOXIC LIQUIDS FOR DUST SUPPRESSION OPERATIONS IS PROHIBITED.
8. RUBBISH, TRASH, GARBAGE, LITTER, OR OTHER SUCH MATERIALS SHALL BE DEPOSITED INTO SEALED CONTAINERS. MATERIALS SHALL BE PREVENTED FROM LEAVING THE PREMISES THROUGH THE ACTION OF WIND OR STORM WATER RUNOFF.
9. ALL STORM WATER POLLUTION PREVENTION MEASURES PRESENTED ON THE PLAN SHALL BE INITIATED AS SOON AS PRACTICABLE.
10. DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY HAS PERMANENTLY STOPPED SHALL BE PERMANENTLY SEEDED. THESE AREAS SHALL BE SEEDED NO LATER THAN 7 DAYS AFTER THE LAST CONSTRUCTION ACTIVITY OCCURRED IN THESE AREAS.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING SEDIMENT IN THE DETENTION POND AND ANY SEDIMENT THAT MAY HAVE COLLECTED IN THE STORM DRAINS IN CONJUNCTION WITH THE STABILIZATION OF THE SITE.
12. ON-SITE & OFF SITE SOIL STOCKPILE AND BORROW AREAS SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION THROUGH IMPLEMENTATION OF BEST MANAGEMENT PRACTICES. STOCKPILE AND BORROW AREA LOCATIONS SHALL BE NOTED ON THE EROSION CONTROL PLAN BY THE CONTRACTOR AND PERMITTED IN ACCORDANCE WITH GENERAL PERMIT REQUIREMENTS.
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING THE EROSION CONTROL MEASURES (SILT FENCES, STABILIZATION, SEDIMENT BASINS, ETC.) AS NEEDED FOR EACH STAGE OF SITE WORK / GRADING.
14. NO GRADING, CUTTING, OR FILLING SHALL COMMENCE UNTIL SUCH TIME AS APPROPRIATE EROSION AND SEDIMENTATION CONTROL DEVICES HAVE BEEN INSTALLED BETWEEN ALL DISTURBED AREAS AND WATER BODIES, WATERCOURSES OR WETLANDS AND ANY CONVEYANCES SUCH AS DRAINAGE DITCHES, STORM DRAINS, AND INLETS.
15. ALL EROSION AND SEDIMENT CONTROL DEVICES SHALL BE INSTALLED PRECEEDING ANY DISTURBANCE OF THE LAND AND SHALL REMAIN FUNCTIONAL UNTIL THE CONTRIBUTING DISTURBED AREAS ARE STABILIZED. THE CONTRACTOR SHALL INSTALL ALL EROSION AND PREVENTION STRUCTURES SHOWN ON THE PLANS AT A MINIMUM AND IN FULL CONFORMANCE WITH ALL APPLICABLE WATER MANAGEMENT DISTRICT PERMITS AND REGULATIONS.
16. ALL CONTROL STRUCTURE AND OUTFALL CULVERT INSTALLATIONS SHALL BE PROTECTED WITH SEDIMENT BARRIERS AT A MINIMUM.
17. ALL DISTURBED AREAS (ABOVE NORMAL WATER LEVELS) UNLESS OTHERWISE NOTED HEREIN, SHALL BE SEEDED AND MULCHED WITHIN 7 DAYS OF FINAL GRADING. UNLESS OTHERWISE NOTED, ALL SLOPES STEEPER THAN 4:1 SHALL BE SODDED.

PAVING, GRADING, AND DRAINAGE NOTES

1. TRAFFIC CONTROL ON ALL FDOT, LOCAL AND COUNTY RIGHTS-OF-WAY SHALL MEET THE REQUIREMENTS OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (U.S. DOT/FHA) AND THE REQUIREMENTS OF THE STATE AND ANY LOCAL AGENCY HAVING JURISDICTION. IN THE EVENT THAT THE CONTRACT DOCUMENTS AND THE JURISDICTIONAL AGENCY REQUIREMENTS ARE NOT IN AGREEMENT, THE MOST STRINGENT SHALL GOVERN.
2. ALL OPEN AREAS WITHIN THE PROJECT SITE SHALL BE SODDED UNLESS INDICATED OTHERWISE ON THE LANDSCAPE PLAN.
3. THE CONTRACTOR SHALL INSTALL FILTER FABRIC OVER ALL DRAINAGE STRUCTURES FOR THE DURATION OF CONSTRUCTION AND UNTIL ACCEPTANCE OF THE PROJECT BY THE OWNER. ALL DRAINAGE STRUCTURES SHALL BE CLEANED OF DEBRIS AS REQUIRED DURING AND AT THE END OF CONSTRUCTION TO PROVIDE POSITIVE DRAINAGE FLOWS.
4. IF DEWATERING IS REQUIRED, THE CONTRACTOR SHALL OBTAIN ANY APPLICABLE REQUIRED PERMITS. THE CONTRACTOR IS TO COORDINATE WITH THE OWNER AND THE DESIGN ENGINEER PRIOR TO ANY EXCAVATION.
5. THE CONTRACTOR MUST REVIEW AND MAINTAIN A COPY OF THE ENVIRONMENTAL RESOURCE PERMIT COMPLETE WITH ALL CONDITIONS, ATTACHMENTS, EXHIBITS, AND PERMIT MODIFICATIONS IN GOOD CONDITION AT THE CONSTRUCTION SITE. THE COMPLETE PERMIT MUST BE AVAILABLE FOR REVIEW UPON REQUEST BY WATER MANAGEMENT DISTRICT REPRESENTATIVES.
6. THE CONTRACTOR SHALL ENSURE THAT ISLAND PLANTING AREAS AND OTHER PLANTING AREAS ARE NOT COMPACTED AND DO NOT CONTAIN ROAD BASE MATERIALS. THE CONTRACTOR SHALL ALSO EXCAVATE AND REMOVE ALL UNDESIRABLE MATERIAL FROM ALL AREAS ON THE SITE TO BE PLANTED AND PROPERLY DISPOSED OF IN A LEGAL MANNER.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING EXCAVATIONS AGAINST COLLAPSE AND WILL PROVIDE BRACING, SHEETING OR SHORING AS NECESSARY. DE-WATERING METHODS SHALL BE USED AS REQUIRED TO KEEP TRENCHES DRY WHILE PIPE AND APPURTENANCES ARE BEING PLACED.
8. THE CONTRACTOR WILL STABILIZE BY SEED AND MULCH, SOD, OR OTHER APPROVED MATERIALS ANY DISTURBED AREAS WITHIN ONE WEEK FOLLOWING CONSTRUCTION OF THE UTILITY SYSTEMS AND PAVEMENT AREAS. CONTRACTOR SHALL MAINTAIN SUCH AREAS UNTIL FINAL ACCEPTANCE BY OWNER. CONTRACTOR TO COORDINATE WITH OWNER REGARDING TYPE OF MATERIAL, LANDSCAPING AND IRRIGATION IMPROVEMENTS TO FOLLOW.
9. SITE GRADING, PAVING AND DRAINAGE MATERIALS AND CONSTRUCTION SHALL CONFORM TO FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
10. IMMEDIATELY AT ONSET OF CONSTRUCTION, CONTRACTOR SHALL FIELD VERIFY HORIZONTAL AND VERTICAL LOCATIONS OF ALL EXISTING UTILITIES CRITICAL TO COMPLETING THE PROJECT (INCLUDING WATER, SEWER, POWER, TELEPHONE, GAS, AND CABLE TV) AND SHALL EVALUATE POTENTIAL CONFLICTS. ALL SUCH CONFLICTS SHALL BE REPORTED TO ENGINEER/OWNER IMMEDIATELY UPON DISCOVERY.
11. PRIOR TO CONSTRUCTION, CONTRACTOR SHALL FIELD STAKE AND ROPE OFF CONSERVATION AREA LINES. OWNER RESERVES THE RIGHTS TO CHECK THE STAKING AND ROPING AND REQUIRE IT TO BE RELOCATED IF NECESSARY. IT SHALL REMAIN IN PLACE UNTIL ADJACENT CONSTRUCTION IS COMPLETE.
12. CONTRACTOR SHALL BE EXTREMELY CAUTIOUS WHEN WORKING NEAR TREES WHICH ARE TO BE SAVED, WHETHER SHOWN IN THE PLANS OR DESIGNATED IN THE FIELD.
13. ALL SIGNAGE, PAVEMENT MARKING AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH FDOT "ROADWAY AND TRAFFIC DESIGN STANDARDS" AND FHWA "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES".
14. REGULATORY SIGNS (STOP, ETC.) SHALL BE PAID FOR BY THE CONTRACTOR AND IN PLACE PRIOR TO FINAL INSPECTION OF PAVING AND DRAINAGE IMPROVEMENTS.
15. BLUE REFLECTIVE PAVEMENT MARKERS SHALL BE PLACED OPPOSITE FIRE HYDRANTS IN THE CENTER OF THE NEAREST TRAVELED LANE TO MARK THEIR LOCATIONS.
16. CONTRACTOR IS RESPONSIBLE FOR GRADING ALL PAVEMENTS TO DRAIN POSITIVELY. INTERSECTIONS SHALL BE TRANSITIONED TO PROVIDE SMOOTH DRIVING SURFACE WHILE MAINTAINING POSITIVE DRAINAGE. SHOULD AREAS OF POOR DRAINAGE BE OBSERVED, CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO PLACEMENT OF CURBS OR PAVEMENT COURSES, SO THAT RECOMMENDATIONS FOR CORRECTION MAY BE MADE.
17. PROPOSED AND EXISTING SIDEWALKS SHALL BE RAMPED FLUSH WITH PAVEMENT. RAMPS SHALL NOT EXCEED SLOPES OF 14 HORIZONTAL TO 1 VERTICAL.
18. FINISHED FLOOR ELEVATIONS ARE MINIMUM ELEVATIONS REQUIRED TO SATISFY DRAINAGE AND/OR 100-FLOODPLAIN REQUIREMENTS. PAD ELEVATIONS, IMMEDIATELY OUTSIDE OF BUILDING WALLS, SHALL BE NO MORE THAN 8 INCHES BELOW THE FINISHED FLOOR ELEVATIONS SHOWN.
19. CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING AND DISPOSING ALL WASTE MATERIALS CONSISTENT WITH ALL RULES AND REGULATIONS APPLICABLE TO THE SPECIFIC MATERIAL FOUND. ALL DELETERIOUS SUBSURFACE MATERIAL (I.E. MUCK, PEAT, BURIED DEBRIS, ETC.) IS TO BE EXCAVATED AND REPLACED WITH SUITABLE/COMPACTED SOILS, AS DIRECTED BY THE OWNER, THE OWNERS ENGINEERS, OR OWNERS SOILS TESTING COMPANY. DELETERIOUS MATERIAL IS TO BE STOCKPILED OR REMOVED FROM THE SITE AS DIRECTED BY THE OWNER. EXCAVATED AREAS ARE TO BE BACKFILLED WITH APPROVED MATERIALS AND COMPACTED AS SHOWN ON THESE PLANS. CONTRACTOR IS RESPONSIBLE FOR ACQUIRING ANY PERMITS THAT ARE NECESSARY FOR REMOVING DELETERIOUS MATERIAL FROM THE SITE.
20. ALL NECESSARY FILL AND EMBANKMENT THAT IS PLACED DURING CONSTRUCTION SHALL CONSIST OF MATERIAL SPECIFIED BY THE OWNER'S SOILS TESTING COMPANY OR ENGINEER AND BE PLACED AND COMPACTED ACCORDING TO THESE PLANS.
21. PROPOSED SPOT ELEVATIONS REPRESENT FINISHED PAVEMENT, SIDEWALK, OR GROUND SURFACE GRADES, UNLESS OTHERWISE NOTED.
22. CURBING SHALL BE PLACED AT THE EDGES OF ALL PAVEMENT, UNLESS OTHERWISE NOTED. REFER TO THE LATEST EDITION OF F.D.O.T. "ROADWAY AND TRAFFIC DESIGN STANDARDS" FOR DETAILS AND SPECIFICATIONS OF ALL FDOT TYPE CURB AND GUTTERS CALLED FOR IN THESE PLANS.
23. THE CONTRACTOR SHALL RESTORE OFF-SITE CONSTRUCTION AREAS TO EQUAL AND/OR BETTER CONDITION THAN EXISTING PRIOR TO START OF CONSTRUCTION.
24. UNLESS OTHERWISE NOTED, GRADE TO MEET EXISTING ELEVATION AT PROPERTY LINES.
25. SURVEY MONUMENTS OR BENCHMARKS, WHICH HAVE TO BE DISTURBED BY THIS WORK, SHALL BE REPLACED UPON COMPLETION OF WORK BY A REGISTERED LAND SURVEYOR. ALL SURVEY COSTS WILL BE CONTRACTORS RESPONSIBILITY.
26. FINAL GRADES SHOWN INCLUDE SOD HEIGHT. ALL AREAS SHALL BE GRADED TO DRAIN AWAY FROM THE BUILDINGS.
27. IF WORK IS SUSPENDED OR DELAYED FOR 14 DAYS, THE CONTRACTOR SHALL TEMPORARILY STABILIZE THE DISTURBED AREAS AT NO ADDITIONAL COST TO THE OWNER.
28. STORM DRAINS SHALL BE REINFORCED CONCRETE PIPE, PER ASTM C-76 CLASS III, UNLESS OTHERWISE SPECIFIED. LIFTING HOLES ARE PROHIBITED.
29. ALL STORM STRUCTURES SHALL CONFORM WITH FDOT STANDARD INDEX DRAWINGS AND 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 SHALL BE CAST IRON UNLESS OTHERWISE SPECIFIED OR APPROVED.
30. ALL CONCRETE CURBS, SIDEWALKS, INLET TOPS, ETC. SHALL BE 3000 PSI MINIMUM, UNLESS OTHERWISE SPECIFIED.
31. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING APPLICABLE TESTING WITH THE SOILS ENGINEER. TESTS WILL BE REQUIRED PURSUANT WITH THE SOILS REPORT. UPON COMPLETION OF WORK THE SOILS ENGINEER WILL SUBMIT CERTIFICATIONS TO THE OWNER AND OWNER'S ENGINEER STATING THAT ALL REQUIREMENTS HAVE BEEN MET.
32. A QUALIFIED TESTING LABORATORY SHALL PERFORM ALL TESTING NECESSARY TO ASSURE COMPLIANCE OF THE IN-PLACE MATERIALS AS REQUIRED BY THESE PLANS, THE VARIOUS AGENCIES AND PERMIT CONDITIONS. SHOULD ANY RETESTING BE REQUIRED DUE TO THE FAILURE OF ANY TESTS TO MEET THE REQUIREMENTS, THE CONTRACTOR WILL BEAR ALL COSTS OF SAID RETESTING
33. THE STORM DRAINAGE PIPING SYSTEM SHALL BE SUBJECT TO A VISUAL INSPECTION BY THE OWNER'S ENGINEER PRIOR TO THE PLACEMENT OF BACKFILL. CONTRACTOR TO NOTIFY THE ENGINEER 48 HOURS IN ADVANCE TO SCHEDULE INSPECTION.
34. THE CONTRACTOR SHALL MAINTAIN AND PROTECT FROM MUD, DIRT, DEBRIS, ETC. THE STORM DRAINAGE SYSTEM UNTIL FINAL ACCEPTANCE OF THE PROJECT. THE STORM SYSTEM WILL BE RE-INSPECTED BY THE OWNER'S ENGINEER PRIOR TO APPROVAL FOR CERTIFICATE OF OCCUPANCY PURPOSES. THE CONTRACTOR MAY BE REQUIRED TO RE-CLEAN PIPES AND INLETS FOR THESE PURPOSES.

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47311 — Certificate No.

Project No: 18-162

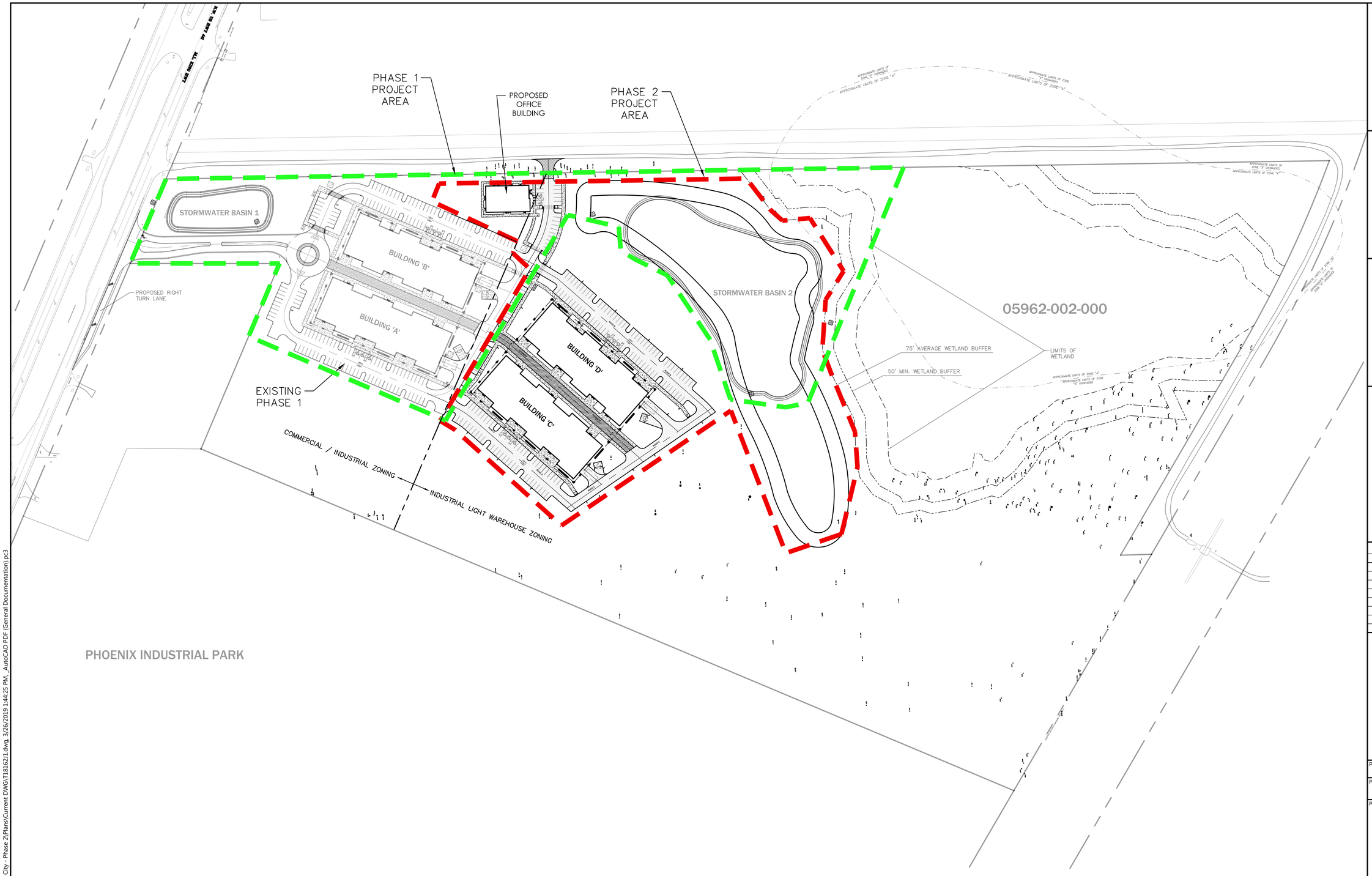
Project phase: CITY SUBMITTAL

Project title: SAN FELASCO TECH CITY PHASE 2 CITY OF ALACHUA, FLORIDA

Sheet title: LEGEND, SYMBOLS, AND GENERAL NOTES

Designed: DJM
Drawn: JAB/MAB
Checked: SJR
Date: 03/26/19

Sheet No.: C005



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SCALE: 1" = 100'

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GRAPHIC SCALE

No.	Date	Comment

Professional Engineer of Record:

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Project No: 18-162

Project phase: CITY SUBMITTAL

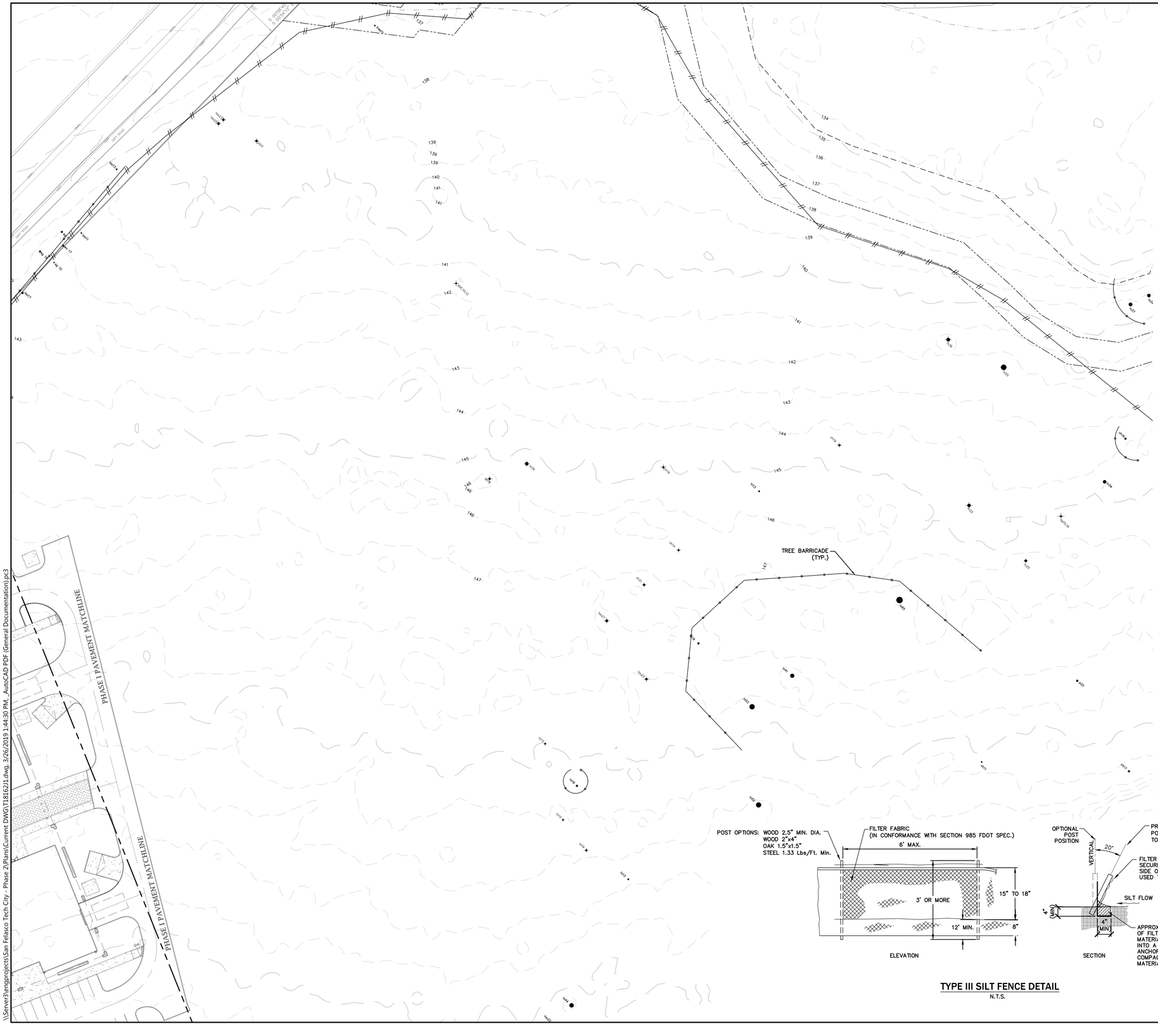
Project title:

SAN FELASCO TECH CITY
PHASE 2
CITY OF ALACHUA,
FLORIDA

Sheet title:

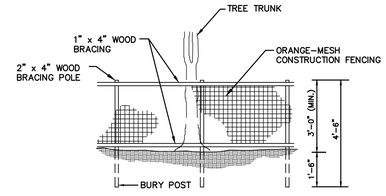
OVERALL DEVELOPMENT PLAN

Designed: DJM	Sheet No.: C010
Drawn: JAB/MAB	
Checked: SJR	
Date: 03/26/19	



DEMOLITION NOTES

1. ALL MATERIAL REMOVED FROM THIS SITE BY THE CONTRACTOR SHALL BE DISPOSED OF BY THE CONTRACTOR IN A LEGAL MANNER.
2. REFER TO THE TOPOGRAPHIC SURVEY FOR ADDITIONAL DETAILS OF EXISTING STRUCTURES, ETC., LOCATED WITHIN THE PROJECT SITE. UNLESS OTHERWISE NOTED, ALL EXISTING BUILDINGS, STRUCTURES, SLABS, CONCRETE, ASPHALT, DEBRIS PILES, SIGNS, AND ALL APPURTENANCES ARE TO BE REMOVED FROM THE SITE BY THE CONTRACTOR AND PROPERLY DISPOSED OF IN A LEGAL MANNER AS PART OF THIS CONTRACT. SOME ITEMS TO BE REMOVED MAY NOT BE DEPICTED ON THE TOPOGRAPHIC SURVEY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VISIT THE SITE AND DETERMINE THE FULL EXTENT OF ITEMS TO BE REMOVED. IF ANY ITEMS ARE IN QUESTION, THE CONTRACTOR SHALL CONTACT THE OWNER PRIOR TO REMOVAL OF SAID ITEMS.
3. THE CONTRACTOR SHALL REFER TO THE DEMOLITION PLAN FOR DEMOLITION / PRESERVATION OF EXISTING TREES. ALL TREES NOT SPECIFICALLY SHOWN TO BE PRESERVED OR RELOCATED SHALL BE REMOVED AS A PART OF THIS CONTRACT. TREE PROTECTION FENCING SHALL BE INSTALLED PRIOR TO ANY DEMOLITION.
4. CONTRACTOR SHALL SUBMIT DEMOLITION SCHEDULE TO OWNER PRIOR TO PROCEEDING WITH DEMOLITION ACTIVITIES.
5. CONDUCT SITE DEMOLITION OPERATIONS TO ENSURE MINIMUM INTERFERENCE WITH ROADS, STREETS, WALKS, AND OTHER ADJACENT OCCUPIED OR USED FACILITIES. DO NOT CLOSE OR OBSTRUCT STREETS, WALKS, OR OTHER OCCUPIED OR USED FACILITIES WITHOUT PERMISSION FROM AUTHORITIES HAVING JURISDICTION. CLOSURE OF THESE FACILITIES MAY REQUIRE A MAINTENANCE OF TRAFFIC PLAN PREPARED BY A REGISTERED PROFESSIONAL AT THE CONTRACTORS EXPENSE.
6. PROVIDE PROTECTION AS NECESSARY TO PREVENT DAMAGE TO EXISTING IMPROVEMENTS SHOWN IN THE PLANS TO REMAIN.
7. LOCATE EXISTING ABOVE GROUND AND UNDERGROUND UTILITIES IN AREAS OF WORK. IF UTILITIES ARE TO REMAIN IN PLACE, PROVIDE ADEQUATE MEANS OF SUPPORT AND PROTECTION DURING DEMOLITION AND CONSTRUCTION OPERATIONS.
8. CONTRACTOR SHALL COORDINATE WITH APPLICABLE UTILITY COMPANIES FOR THE TERMINATION, CAPPING-OFF AND REMOVAL OF ALL EXISTING UNDERGROUND AND ABOVE GROUND UTILITY SERVICES UNLESS DIRECTED TO OTHERWISE.
9. EROSION CONTROLS ARE TO BE INSTALLED AND INSPECTED PRIOR TO BEGINNING DEMOLITION WORK.
10. IN AREAS WHERE PROPOSED CURBING IS TO BE PLACED, THE ASPHALT PAVEMENT SHALL BE REMOVED TO THE FACE OF CURB TO ALLOW PLACEMENT OF 6" STANDARD CONCRETE CURBING.
11. IN AREAS OF PROPOSED LANDSCAPE AREA THE PAVEMENT, LIMEROCK BASE, AND 12" OF THE STABILIZED SUBGRADE SHALL BE REMOVED. COORDINATE WITH LANDSCAPE ARCHITECT TO DETERMINE IF ADDITIONAL REMOVAL IS REQUIRED TO MAKE AREA SUITABLE FOR LANDSCAPE PURPOSES. THE REMOVED LIMEROCK BASE SHALL NOT BE USED IN THE BASE FOR THE NEW PAVEMENT (PER FDOT SECTION 200), BUT THE REMOVED BASE CAN BE USED IN THE STABILIZATION OF SUBGRADE. SEE GRADING PLAN FOR BACKFILL REQUIREMENTS.
12. ALL CONSTRUCTION DEBRIS, LIMEROCK, EXCESS OF BUILDER'S SAND, CONCRETE AND MORTAR DEBRIS, EXISTING WEEDS AND GRASSES, ALL FOREIGN MATERIALS IN THE PLANTING BED AND SOD AREAS SHALL BE REMOVED AND 36" OF CLEAN FILL OF PH 5.5 – 6.5 SHALL BE INSTALLED PRIOR TO ANY INSTALLATION OF PLANTS OR TREES.
13. SEE DIMENSION PLAN FOR DIMENSIONING OF PROPOSED LANDSCAPE AREAS.
14. CONTRACTOR IS RESPONSIBLE FOR PROTECTION OF EXISTING UTILITIES TO REMAIN AS SHOWN IN THE UTILITY PLAN. ANY EXISTING UTILITIES TO BE REMOVED SHALL BE COORDINATED WITH THE ASSOCIATED UTILITY COMPANY, AND PERFORMED IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS.
15. SEE ELECTRICAL AND IRRIGATION PLANS FOR COORDINATION OF PAVEMENT CUTS FOR ASSOCIATED CONDUITS.



ELEVATION

NOTES:

1. TREE BARRICADES WILL BE BUILT BEFORE ANY SITE WORK IS UNDERTAKEN AND WILL REMAIN IN PLACE UNTIL THE LANDSCAPING IS PLANTED.
2. EACH BARRICADE MUST BE AT LEAST 3 FEET TALL, WITH CORNER POSTS OF 2" X 4" WOOD INSERTED AT LEAST ONE AND A HALF (1-1/2) FEET DEEP. THE TWO ROWS OF SIDE SLATS MUST BE 1" X 4" AND BE MARKED WITH PLASTIC RIBBONS OR MESH FENCING FOR VISIBILITY.
3. NO GRADING WITHIN FENCING. ANY ROOTS GREATER THAN 1" IN DIAMETER THAT ARE DAMAGED OR EXPOSED SHALL BE CLEANLY CUT AND COVERED OVER WITH SOIL.
4. NO CONSTRUCTION MATERIALS OR EQUIPMENT SHALL BE PERMITTED WITHIN CONSTRUCTION FENCING OR BEYOND THE CONSTRUCTION LIMITS.
5. THE AREA ENCLOSED MUST BE AT OR OUTSIDE THE DRIPLINE FOR ALL HERITAGE AND CHAMPION TREES AND ALL REGULATED PINE AND PALM TREES, OR EQUAL TO 2/3 OF THE DRIPLINE OF THE TREE CANOPY FOR ALL OTHER REGULATED SPECIES, OR AT THE TREE ROOT PLATE WHERE ALLOWED BY CONSTRUCTION LIMITS.

TREE BARRICADE FENCING DETAIL

N.T.S.

TYPE III SILT FENCE DETAIL

N.T.S.

TREE LEGEND

THE ONLY TREES LOCATED FOR THIS SURVEY WERE HARDWOODS 8" AND GREATER AND PINES 12" AND GREATER (DIAMETER MEASURED AT BREAST HEIGHT)

LOCATION	SPECIES	DIAMETER AT BREAST HEIGHT IN INCHES		SIZE/COMMON NAME
•	ba10.		=	10" BAY
•	cb11.		=	11" CHINABERRY
•	ce11.		=	11" CEDAR
•	ch12.		=	12" CHERRY
•	cht10.		=	10" CHINESE TALLOW
•	hi11.		=	11" HICKORY
•	lap12.		=	12" LAUREL OAK
•	lo15.		=	15" LIVE OAK
•	mb12.		=	12" MULBERRY
•	mg18.		=	18" MAGNOLIA
•	pa18.		=	18" PALM
•	pi14.		=	14" PINE
•	po9.		=	9" POST OAK
•	sb11.		=	11" SUGARBERRY
•	sg17.		=	17" SWEETGUM
•	tko11.		=	11" TURKEY OAK
•	tree18.		=	18" UNIDENTIFIED TREE
•	wo14.		=	14" WATER OAK
X	pi20		=	EXISTING TREE TO BE REMOVED
			=	TREE BARRICADE
			=	SILT FENCE

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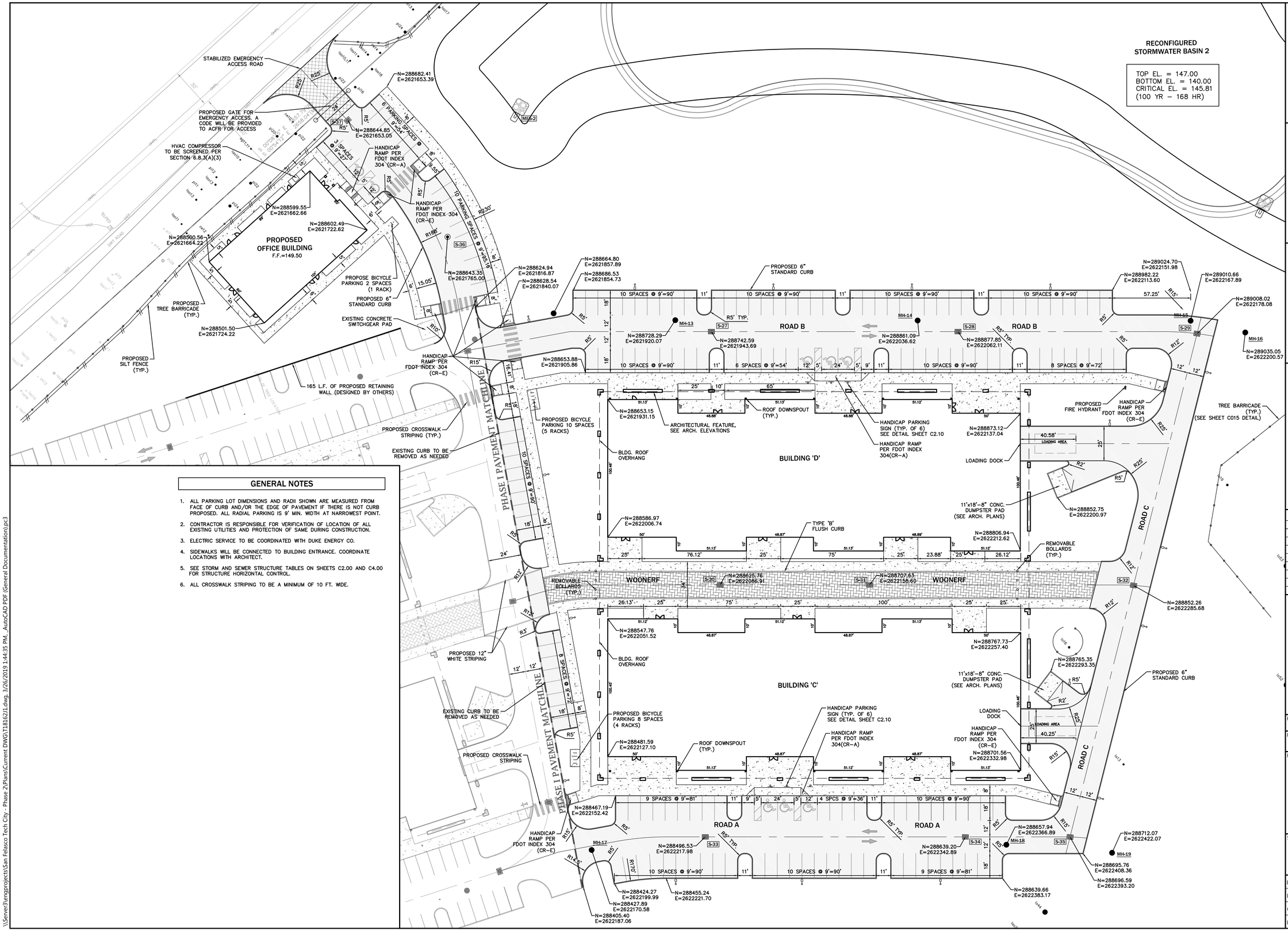
NORTH
SCALE: 1" = 40'
0 20 40 80
GRAPHIC SCALE

No.	Date	Comment

Professional Engineer of Record:
SERGIO J. REYES LICENSE No. 47311 STATE OF FLORIDA PROFESSIONAL ENGINEER
Sergio J. Reyes, P.E. 47311
Engineer Certificate No.

Project No: 18-162
Project phase: CITY SUBMITTAL
Project title: SAN FELASCO TECH CITY PHASE 2 CITY OF ALACHUA, FLORIDA
Sheet title: TREE CLEARING PLAN

Designed: DJM
Drawn: JAB/MAB
Checked: SJR
Date: 03/26/19
Sheet No.: C015



GENERAL NOTES

1. ALL PARKING LOT DIMENSIONS AND RADII SHOWN ARE MEASURED FROM FACE OF CURB AND/OR THE EDGE OF PAVEMENT IF THERE IS NOT CURB PROPOSED. ALL RADIAL PARKING IS 9' MIN. WIDTH AT NARROWEST POINT.
2. CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF LOCATION OF ALL EXISTING UTILITIES AND PROTECTION OF SAME DURING CONSTRUCTION.
3. ELECTRIC SERVICE TO BE COORDINATED WITH DUKE ENERGY CO.
4. SIDEWALKS WILL BE CONNECTED TO BUILDING ENTRANCE. COORDINATE LOCATIONS WITH ARCHITECT.
5. SEE STORM AND SEWER STRUCTURE TABLES ON SHEETS C2.00 AND C4.00 FOR STRUCTURE HORIZONTAL CONTROL.
6. ALL CROSSWALK STRIPING TO BE A MINIMUM OF 10 FT. WIDE.

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NORTH
SCALE: 1" = 30'
0 15 30 60
GRAPHIC SCALE

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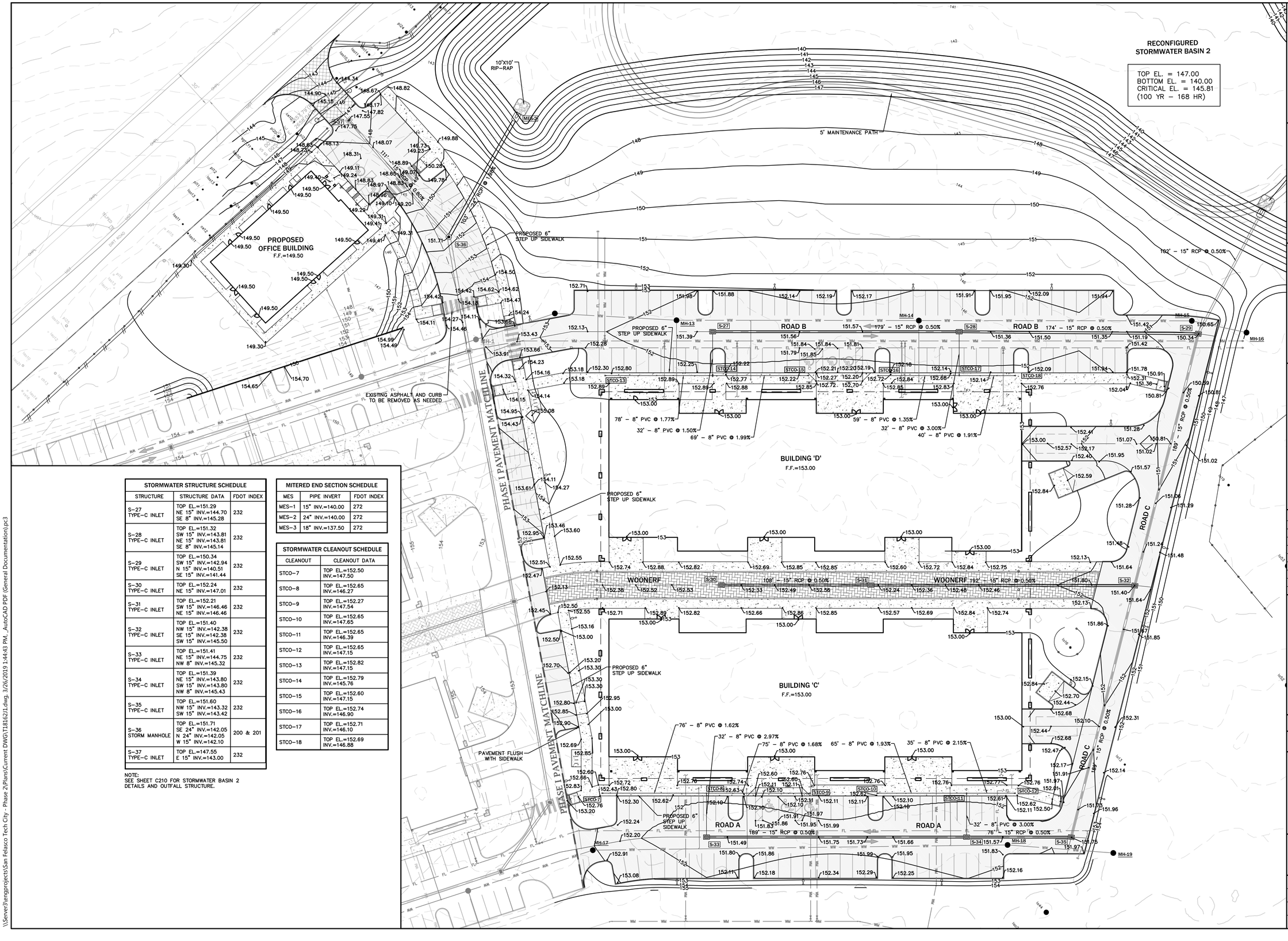
Sergio J. Reyes, P.E. 47311
Engineer Certificate No.

Project No: 18-162
Project phase: CITY SUBMITTAL
Project title: SAN FELASCO TECH CITY PHASE 2 CITY OF ALACHUA, FLORIDA
Sheet title: DIMENSION PLAN

Designed: DJM
Drawn: JAB/MAB
Checked: SJR
Date: 03/26/19
Sheet No.: C101



STORMWATER STRUCTURE SCHEDULE		
STRUCTURE	STRUCTURE DATA	FDOT INDEX
S-27 TYPE-C INLET	TOP EL.=151.29 NE 15" INV.=144.70 SE 8" INV.=145.28	232
S-28 TYPE-C INLET	TOP EL.=151.32 SW 15" INV.=143.81 NE 15" INV.=143.81 SE 8" INV.=145.14	232
S-29 TYPE-C INLET	TOP EL.=150.34 SW 15" INV.=142.94 N 15" INV.=140.51 SE 15" INV.=141.44	232
S-30 TYPE-C INLET	TOP EL.=152.24 NE 15" INV.=147.01	232
S-31 TYPE-C INLET	TOP EL.=152.21 SW 15" INV.=146.46 NE 15" INV.=146.46	232
S-32 TYPE-C INLET	TOP EL.=151.40 NW 15" INV.=142.38 SE 15" INV.=142.38 SW 15" INV.=145.50	232
S-33 TYPE-C INLET	TOP EL.=151.41 NE 15" INV.=144.75 NW 8" INV.=145.32	232
S-34 TYPE-C INLET	TOP EL.=151.39 NE 15" INV.=143.80 SW 15" INV.=143.80 NW 8" INV.=145.43	232
S-35 TYPE-C INLET	TOP EL.=151.60 NW 15" INV.=143.32 SW 15" INV.=143.42	232
S-36 STORM MANHOLE	TOP EL.=151.71 SE 24" INV.=142.05 N 24" INV.=142.05 W 15" INV.=142.10	200 & 201
S-37 TYPE-C INLET	TOP EL.=147.55 E 15" INV.=143.00	232

MITERED END SECTION SCHEDULE		
MES	PIPE INVERT	FDOT INDEX
MES-1	15" INV.=140.00	272
MES-2	24" INV.=140.00	272
MES-3	18" INV.=137.50	272

STORMWATER CLEANOUT SCHEDULE	
CLEANOUT	CLEANOUT DATA
STCO-7	TOP EL.=152.50 INV.=147.50
STCO-8	TOP EL.=152.65 INV.=146.27
STCO-9	TOP EL.=152.27 INV.=147.54
STCO-10	TOP EL.=152.65 INV.=147.65
STCO-11	TOP EL.=152.65 INV.=146.39
STCO-12	TOP EL.=152.65 INV.=147.15
STCO-13	TOP EL.=152.82 INV.=147.15
STCO-14	TOP EL.=152.79 INV.=145.76
STCO-15	TOP EL.=152.60 INV.=147.15
STCO-16	TOP EL.=152.74 INV.=146.90
STCO-17	TOP EL.=152.71 INV.=146.10
STCO-18	TOP EL.=152.69 INV.=146.88

NOTE:
SEE SHEET C210 FOR STORMWATER BASIN 2 DETAILS AND OUTFALL STRUCTURE.

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0 15 30 60
GRAPHIC SCALE

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Sergio J. Reyes, P.E. 47311
Engineer Certificate No.

Project No: 18-162

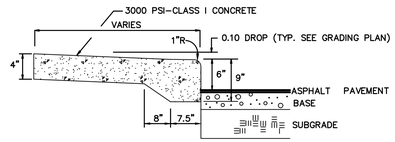
Project phase: CITY SUBMITTAL

Project title:
SAN FELASCO TECH CITY
PHASE 2
CITY OF ALACHUA,
FLORIDA

Sheet title:
PAVING, GRADING, AND DRAINAGE PLAN

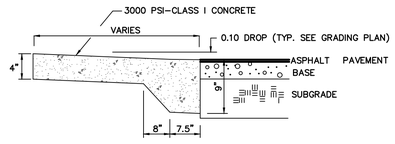
Designed: DJM
Drawn: JAB/MAB
Checked: SJR
Date: 03/26/19

Sheet No.:
C201



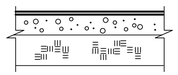
TYPICAL STEPUP SIDEWALK

N.T.S.



TYPICAL FLUSH SIDEWALK DETAIL

N.T.S.



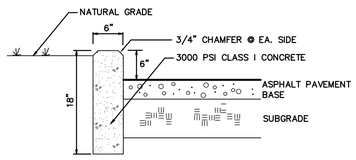
2" TYPE SP–9.5, ASPHALTIC CONCRETE (2 LIFTS OF 1" EACH)

6" LIMEROCK BASE, COMPACTED TO 98% OF MODIFIED PROCTOR DENSITY

12" SUBGRADE, LBR 40, COMP. TO 98% MODIFIED PROCTOR DENSITY

TYPICAL ASPHALT PAVEMENT DETAIL

N.T.S.



6" STANDARD CURB DETAIL

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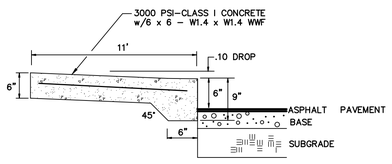

CONCRETE DUMPSTER PAD DETAIL

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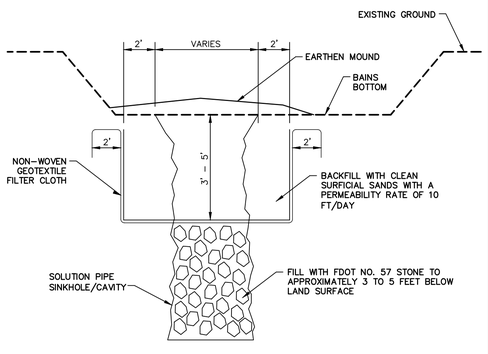
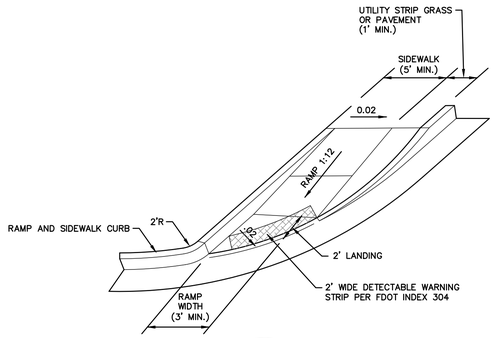


IF A SOLUTION PIPE SINKHOLE DOES FORM IN THE STORMWATER BASIN THEN THE SINKHOLE SHALL BE REPAIRED BY BACKFILLING WITH NO. 57 STONE TO APPROXIMATELY 3 TO 5 FEET BELOW LAND SURFACE. AN AREA AT LEAST 6' BEYOND THE EDGES OF THE CHIMNEY SHOULD BE EXCAVATED TO THE TOP OF THE GRAVEL. A NON–WOVEN GEOTEXTILE FILTER CLOTH SHOULD BE PLACED AT THE BOTTOM OF THE EXCAVATION AND THE EXCAVATION SHOULD BE BACKFILLED WITH CLEAN SAND HAVING A VERTICAL COEFFICIENT OF PERMEABILITY OF 10 FEET PER DAY. THE MATERIAL SHALL BE COMPACTED AND THE SINKHOLE REPAIR SHOULD BRING THE SURFACE BACK TO AN ELEVATION WHICH IS SLIGHTLY ABOVE THE ORIGINAL BOTTOM, CREATING A SMALL MOUND.

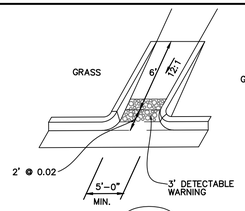
SOLUTION PIPE/CHIMNEY REPAIR DETAIL

N.T.S.



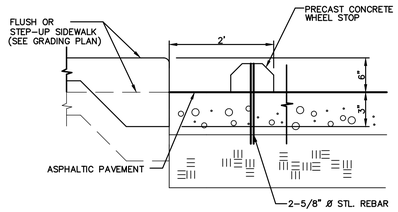
SIDEWALK CURB RAMPS-FDOT INDEX 304

N.T.S.



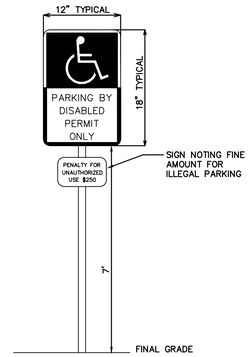
CURB RAMP (TYP.)

N.T.S.



SIDEWALK W/ PREFAB WHEEL STOP

N.T.S.

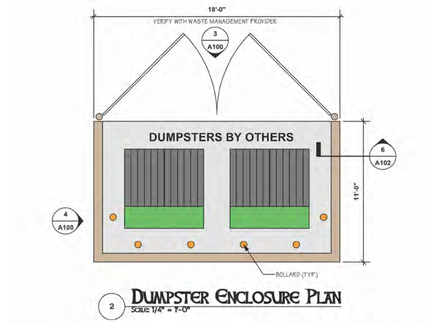


SIGN NOTES:

1. SIGN TO BE MADE OF 0.063" STEEL PAINTED WITH TRAFFIC PAINT
2. HANDICAP SIGN TO BE AS SHOWN ABOVE OR AS REQUIRED BY LOCAL CODE PAINT SIGN BLUE AND WHITE

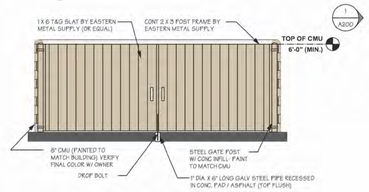
HANDICAP PARKING SIGN DETAIL

N.T.S.



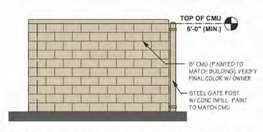
DUMPSTER ENCLOSURE PLAN

2 SCALE 1/4" = 1'-0"



DUMPSTER ENCLOSURE ELEVATION

3 SCALE 1/4" = 1'-0"

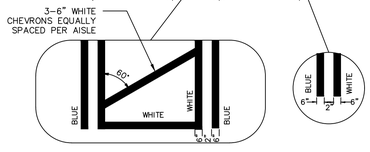


DUMPSTER ENCLOSURE ELEVATION

4 SCALE 1/4" = 1'-0"

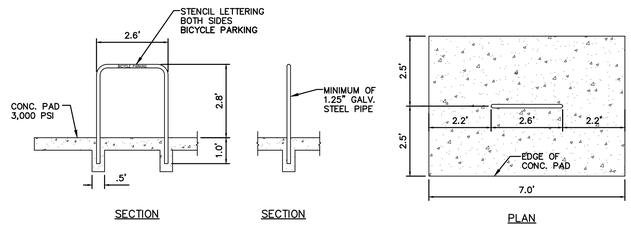
DUMPSTER SCREENING FENCE DETAIL (BY OTHERS)

NTS



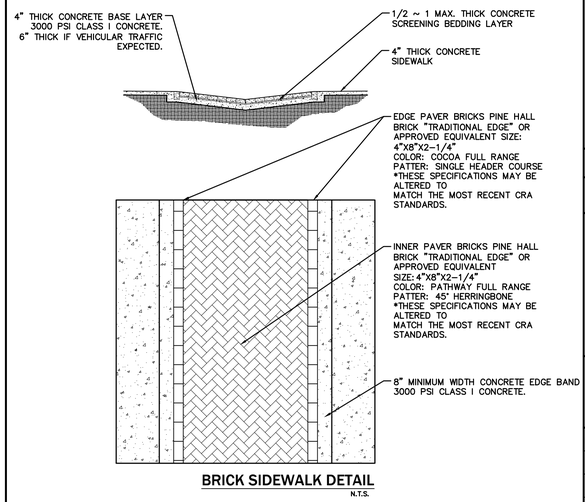
HANDICAP STRIPING DETAIL

N.T.S.



BIKE RACK DETAIL

N.T.S.



BRICK SIDEWALK DETAIL

N.T.S.

PAVING, GRADING AND DRAINAGE SPECIFICATIONS

1. GENERAL: ALL ROADWAY AND DRAINAGE CONSTRUCTION, INCLUDING MATERIALS, CONSTRUCTION TECHNIQUES, AND TECHNICAL STANDARDS, SHALL BE IN ACCORDANCE WITH THE LATEST F.D.O.T. STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, AND THE LATEST F.D.O.T. ROADWAY AND TRAFFIC DESIGN STANDARDS.
2. ALL AREAS OF NEW CONSTRUCTION SHALL BE PREPARED AFTER SITE DEMOLITION. TOP SOIL REMAINING ONSITE MAY BE STOCKPILED FOR FINE GRADING IN LANDSCAPED AREAS, IF SUITABLE. THE CONTRACTOR SHALL FURNISH ALL FILL REQUIRED AND DISPOSE OF ALL EXCESS OR UNSUITABLE MATERIAL OFFSITE IN ACCORDANCE WITH ALL REGULATORY REQUIREMENTS.
3. ALL NEW ASPHALT PAVEMENT CONSTRUCTION SHALL CONFORM TO THE FOLLOWING SPECIFICATIONS:
   A. EARTHWORK: FILL MATERIALS SHALL CONFORM TO AASHTO SOIL GROUPS A–1, A–3, OR A–2–4 AND SHALL BE PLACED IN 6"–12" LOOSE LIFTS AND COMPACTED TO 98% DENSITY USING MODIFIED PROCTOR METHOD (AASHTO T–180).
   B. SUBSOIL EXCAVATION: WHERE SUBSOIL EXCAVATION IS REQUIRED, UNSUITABLE MATERIALS SHALL BE REMOVED TO A DEPTH OF 18" BELOW THE LIMEROCK BASE AND BACKFILLED WITH CLEAN FILL.
   C. STABILIZED SUBGRADE: ALL STABILIZED MATERIAL SHALL BE TYPE 'B' CONFORMING TO SECTION 914–3 AND PLACED ACCORDING TO SECTION 160 IN ONE 12" MINIMUM COMPACTED LIFT. SUBGRADE SHALL BE STABILIZED TO A MINIMUM LBR VALUES AND DENSITIES AS SHOWN IN THE TYPICAL SECTIONS.
   D. BASE COURSE: ALL MATERIAL SHALL BE LIMEROCK CONFORMING TO SECTION 911 AND PLACED ACCORDING TO SECTION 200 IN ONE 6" MINIMUM COMPACTED LIFT OR DOUBLE COMPACTED LIFT. ALL BASE MATERIAL SHALL BE COMPACTED TO 98% DENSITY BY MODIFIED PROCTOR METHOD (AASHTO T–180). THE PRIME COAT SHALL CONFORM TO SECTION 300.
   E. ASPHALTIC CONCRETE: ALL ASPHALTIC CONCRETE MATERIAL SHALL BE AS PER DESIGN SECTIONS AND SHALL CONFORM TO SECTION 334. ALL ASPHALTIC CONCRETE CONSTRUCTION SHALL CONFORM TO SECTION 330. ASPHALT PAVEMENT SHALL BE SUPERPAVE SP–PG 67–22 ASPHALT BINDER.
4. ALL CONCRETE USED FOR CONSTRUCTION OF DRAINAGE STRUCTURES, SIDEWALKS, AND CURBING SHALL BE CLASS I CONFORMING TO SECTION 346.
5. REINFORCED CONCRETE PIPE SHALL CONFORM TO SECTION 430.
6. ALL PAVEMENT MARKINGS REQUIRED IN THE R/W SHALL BE THERMOPLASTIC AND INCLUDE RAISED PAVEMENT MARKERS, WHERE REQUIRED CONFORMING TO SECTION 711.
7. ALL PAVEMENT MARKING, SYMBOLS AND STRIPING WITHIN THE SITE SHALL MEET THE LATEST FLORIDA HANDICAP ACCESSIBILITY CODE. PAVEMENT MARKING SHALL BE 4" BLUE/WHITE (HANDICAP) OR WHITE (REGULAR) AND SHALL CONFORM TO THE LATEST F.D.O.T. AND M.U.T.C.D. STANDARDS.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING A GEOTECHNICAL CONSULTANT TO PROVIDE A FIELD INVESTIGATION REPORT DELINEATING RECOMMENDATIONS FOR UNDERCUTTING AND/OR UNDERDRAINS. A COPY OF THIS REPORT SHALL BE FORWARDED TO THE OWNER AND ENGINEER FOR REVIEW AND APPROVAL PRIOR TO UNDERCUTTING OR INSTALLING UNDERDRAIN. UNIT PRICES SHALL BE PROVIDED FOR UNDERDRAIN AND UNDERCUTTING. THE CONTRACTOR SHALL NOT CONSTRUCT BASE COURSE UNTIL THE REPORT IS REVIEWED AND APPROVED BY THE OWNER AND THE ENGINEER.
9. SOIL TESTING RESULTS SHALL BE PROVIDED FOR THE PAVEMENT CONSTRUCTION. TESTING RESULTS SHALL BE SUBMITTED FOR THE SUBGRADE AND BASE COURSE, IN ACCORDANCE WITH THE DESIGN SECTION. A MINIMUM OF 5 TEST LOCATIONS SHALL BE PROVIDED ONSITE. THE TESTING REPORT SHALL DENOTE THE TEST LOCATIONS. THE CONTRACTOR SHALL NOT PROCEED TO THE SUBSEQUENT PAVEMENT SECTION UNTIL TESTING –RESULTS ARE APPROVED FOR PREVIOUS SECTION. ALL TESTING REQUIRED WITHIN THE COUNTY R/W SHALL BE COORDINATED WITH THE COUNTY INSPECTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TESTING COST.
10. LANDSCAPING: FINAL GRADING IN OPEN AREAS AND LANDSCAPE ISLANDS SHALL BE COORDINATED WITH THE LANDSCAPE CONTRACTOR AND THE OWNER. THE CONTRACTOR SHALL ALSO COORDINATE THE PLACEMENT OF ANY IRRIGATION AND ELECTRICAL CONDUIT SLEEVES DURING CONSTRUCTION.
11. ROOF RUNOFF WILL BE DIRECTED TO THE STORMWATER SYSTEM IF A GUTTER COLLECTION SYSTEM IS NOT SHOWN IN THE PLANS. RUNOFF COLLECTION SHALL BE COORDINATED WITH THE ARCHITECT.
12. REMOVAL OF ALL CONSTRUCTION DEBRIS, LIMEROCK, EXCESS OF BUILDERS SAND, CONCRETE AND MORTAR DEBRIS, EXISTING WEEDS AND GRASSES, AND ALL FOREIGN MATERIALS IN THE PLANTING BED AND SOD AREAS IS THE RESPONSIBILITY OF THE SITE WORK CONTRACTOR. SOIL IN AREAS TO BE LANDSCAPED SHALL BE UNCOMPACTED, SUITABLE FOR ROOT GROWTH WITH APPROPRIATE AMOUNTS OF ORGANIC MATTER, AND OF pH 5.5–6.5.
13. TREE BARRICADES MUST REMAIN IN PLACE AND IN THE DIMENSIONS SHOWN ON THE PLAN UNTIL LANDSCAPING BEGINS. SEE NOTE ON SHEET C0.20 AND THE DETAIL ON THE LANDSCAPE PLAN.

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SCALES:
AS SHOWN

No.	Date	Comment

Professional Engineer of Record:

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Sergio J. Reyes, P.E. 47311
Engineer Certificate No.

Project No: 18-162

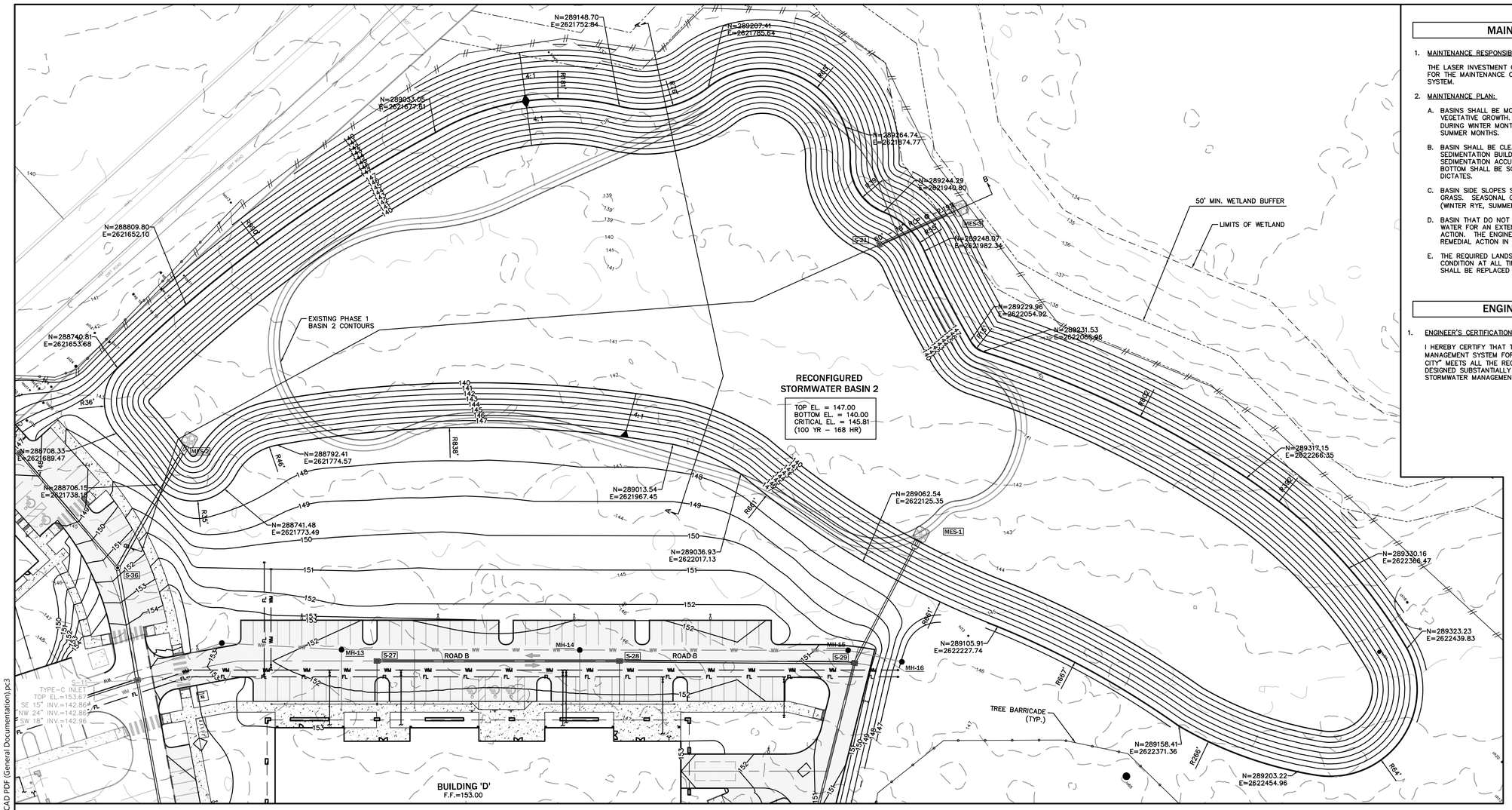
Project phase: CITY SUBMITTAL

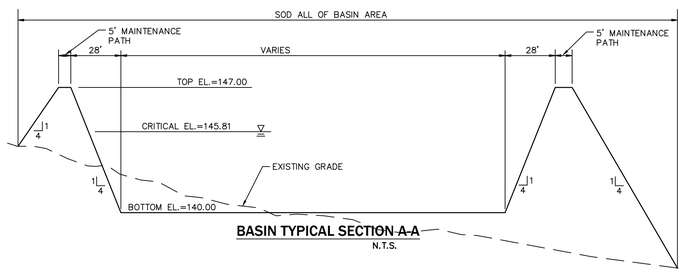
Project title: SAN FELASCO TECH CITY PHASE 2 CITY OF ALACHUA, FLORIDA

Sheet title: PAVING, GRADING, AND DRAINAGE DETAILS

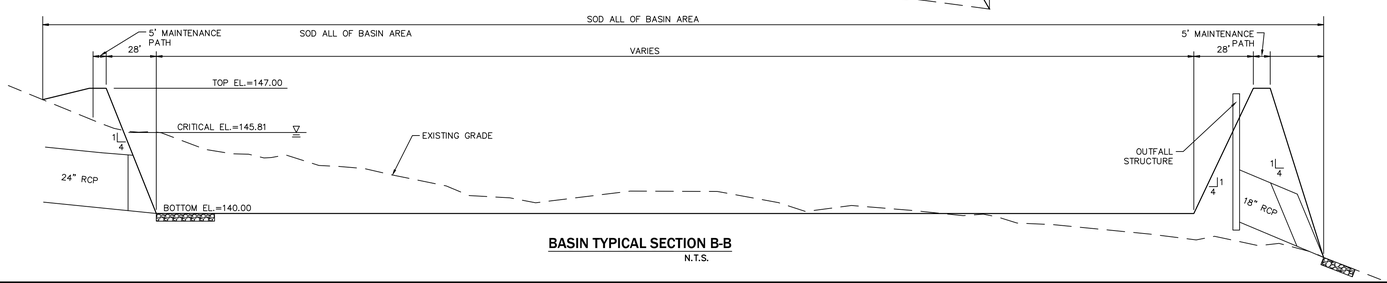
Designed: DJM
Drawn: JAB/MAB
Checked: SJR
Date: 03/26/19

Sheet No.: C205

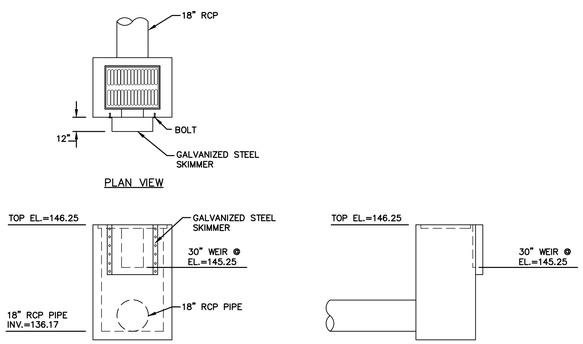




BASIN TYPICAL SECTION A-A
N.T.S.



BASIN TYPICAL SECTION B-B
N.T.S.



BASIN 2 OUTFALL S-21 DETAIL
N.T.S.

MAINTENANCE NOTES

1. MAINTENANCE RESPONSIBILITY:

   THE LASER INVESTMENT GROUP, LLC WILL BE THE ENTITY RESPONSIBLE FOR THE MAINTENANCE OF THE PROPOSED STORMWATER MANAGEMENT SYSTEM.

2. MAINTENANCE PLAN:

   A. BASINS SHALL BE MOWED REGULARLY TO AVOID EXCESSIVE VEGETATIVE GROWTH. MOWING SCHEDULE SHOULD BE MONTHLY DURING WINTER MONTHS AND MORE FREQUENTLY (BIWEEKLY) DURING SUMMER MONTHS.

   B. BASIN SHALL BE CLEANED OUT ANNUALLY OF ANY ACCUMULATED SEDIMENTATION BUILDUP. IF THE BASINS ARE SHOWING EXCESSIVE SEDIMENTATION ACCUMULATION AT THE BASIN BOTTOM, THE BASIN BOTTOM SHALL BE SCRAPED CLEAN MORE OFTEN AS THE CONDITION DICTATES.

   C. BASIN SIDE SLOPES SHALL BE MAINTAINED WITH A GOOD STAND OF GRASS. SEASONAL GRASSES SHALL BE PLANTED TO AVOID EROSION (WINTER RYE, SUMMER MILLET).

   D. BASIN THAT DO NOT DRAWDOWN PROPERLY AND MAINTAIN STANDING WATER FOR AN EXTENDED PERIOD OF TIME MAY REQUIRE REMEDIAL ACTION. THE ENGINEER SHALL BE NOTIFIED TO HELP COORDINATE REMEDIAL ACTION IN THE EVENT THIS OCCURS.

   E. THE REQUIRED LANDSCAPING SHALL BE MAINTAINED IN A SOUND CONDITION AT ALL TIMES. ANY DEAD LANDSCAPING MATERIALS SHALL BE REPLACED IMMEDIATELY TO ASSURE PUBLIC SAFETY.

ENGINEER'S CERTIFICATION

1. ENGINEER'S CERTIFICATION:

   I HEREBY CERTIFY THAT THE DESIGN OF THE STORMWATER MANAGEMENT SYSTEM FOR THE PROJECT KNOWN AS "SAN FELASCO TECH CITY" MEETS ALL THE REQUIREMENTS AND HAS BEEN DESIGNED SUBSTANTIALLY IN ACCORDANCE WITH THE CITY OF ALACHUA STORMWATER MANAGEMENT ORDINANCE.

SERGIO REYES, P.E.

MITERED END SECTION SCHEDULE		
MES	PIPE INVERT	FDOT INDEX
MES-1	15" INV.=140.00	272
MES-2	24" INV.=140.00	272
MES-3	18" INV.=137.50	272

engineers • surveyors • planners
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TEL. (352) 373-3541 FAX. (352) 373-7249
www.edafl.com mail@edafl.com

NORTH
SCALE: 1" = 40'
0 20 40 80
GRAPHIC SCALE

No.	Date	Comment

Professional Engineer of Record:
SERGIO J. REYES, P.E. LICENSE No. 47311 STATE OF FLORIDA
Sergio J. Reyes, P.E. 47311
Engineer Certificate No.

Project No: 18-162

Project phase: CITY SUBMITTAL

Project title: SAN FELASCO TECH CITY PHASE 2 CITY OF ALACHUA, FLORIDA

Sheet title: RECONFIGURED BASIN 2 DETAIL

Designed: DJM
Drawn: JAB/MAB
Checked: SJR
Date: 03/26/19

Sheet No.: C210

THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) MAY BE MODIFIED AND UPDATED DURING CONSTRUCTION AS A RESULT OF WEATHER, UNPREDICTABLE EVENTS AND SITE INSPECTIONS.

THIS DOCUMENT WAS PREPARED IN ORDER TO BE IN COMPLIANCE WITH CHAPTER 62-621.300 (4) OF THE FLORIDA ADMINISTRATIVE CODE, WHICH PERTAINS TO THE GENERIC PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES. THE ADMINISTRATIVE CODE GRANTS THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP) THE AUTHORITY TO REGULATE POINT SOURCE DISCHARGES OF STORM-WATER FROM CONSTRUCTION SITES. THIS DOCUMENT ESTABLISHES A STORMWATER POLLUTION PREVENTION PLAN FOR THE SITE AND IS ORGANIZED TO CORRESPOND TO PART V OF DEP DOCUMENT No. 62-621.300 (4) (A) FDEP FORM 62-261.300 (4) (B) IS TO BE SUBMITTED IN CONJUNCTION WITH THIS DOCUMENT.

I. PROJECT INFORMATION:

PROJECT: SAN FELASCO TECH CITY – BUILDING C AND D
COUNTY: ALACHUA FLORIDA
SECTION/TOWNSHIP/RANGE: S 20 , T 08 SOUTH, R 19 EAST
COUNTY PARCEL NO.: 05962-002-000
LATITUDE AND LONGITUDE:
STREET ADDRESS: 1300 BLOCK OF US HWY 441
PROJECT AREA: 12.06 Ac.
APPROXIMATE AREA TO BE DISTURBED BY CONSTRUCTION: 12.06 Ac.

II. SITE DESCRIPTION:

1. THE PROPOSED DEVELOPMENT WILL CONSIST OF THE CONSTRUCTION OF TWO 30,100 SF BUILDINGS WITH ASSOCIATED PAVING, DRAINAGE AND UTILITY IMPROVEMENTS.

   THE PROPOSED STORMWATER SYSTEM IS A MODIFICATION TO AN EXISTING STORMWATER BASIN.

2. THE SOIL CONDITIONS WERE INVESTIGATED AND SUMMARIZED IN THE SOILS REPORT PREPARED BY UNIVERSAL ENGINEERING SCIENCES. THE PROPOSED DRAINAGE PLAN WILL CONSIST OF (3) DRAINAGE AREA(S). AREA (1): 3.00 ACRES OF RUNOFF WILL BE ATTENUATED BY BASIN No. 1 WHICH DISCHARGES INTO THE EXISTING STORMWATER SYSTEM ALONG THE RIGHT-OF-WAY OF US HWY 441. AREA (2) 22.80 ACRES OF RUNOFF WILL BE ATTENUATED BY BASIN No. 2 WHICH DISCHARGES INTO THE EXISTING WETLAND AT THE NORTHERN END OF THE PROJECT SITE. AREA (3): 13.56 ACRES OF RUNOFF WILL SHEET FLOW INTO THE EXISTING WETLAND AS IN EXISTING CONDITIONS.
3. EXISTING AND FUTURE DRAINAGE PATTERNS ARE SHOWN ON THE DRAINAGE PLAN FOR PRE-DEVELOPMENT CONDITIONS AND POST-DEVELOPMENT CONDITIONS. OUTFALLS, AND STORMWATER BASINS ARE SHOWN IN THE DRAINAGE PLAN AND THE DETAIL PLAN.
4. SEQUENCE OF CONSTRUCTION:
   A. PRIOR TO CONSTRUCTION, SILT FENCING AND TREE PROTECTION BARRICADES SHALL BE INSTALLED AND ALL EXISTING DRAINAGE STRUCTURES SHALL BE PROTECTED IN ACCORDANCE WITH THE FDOT FLORIDA EROSION AND SEDIMENTATION CONTROL MANUAL.
   B. THE CONSTRUCTION ENTRANCE(S) WILL BE STABILIZED TO MINIMIZE THE CREATION OF DUST AND OFF SITE TRACKING OF SEDIMENTS.
   C. THE SITE SHALL BE CLEARED AND GRUBBED OF UNDESIRABLE VEGETATION.
   D. THE UNDERGROUND UTILITIES AND STORMWATER PIPING WILL BE INSTALLED AND CONNECTED TO EXISTING STRUCTURES.
   E. THE SITE WILL BE ROUGHLY GRADED. IF SUITABLE, THE EXCAVATED MATERIAL MAY BE USED AS FILL FOR ON-SITE GRADING. THE ROADWAYS SHALL BE GRADED. (THE BASIN AREA SHALL BE STABILIZED AS SPECIFIED IN THE PLANS.)
   F. ROADWAYS AND PARKING LOTS WILL BE COMPACTED AND A LIMEROCK BASE WILL BE ESTABLISHED FOLLOWED BY AN OVERLAY OF ASPHALTIC CONCRETE. BUILDINGS SHALL BE CONSTRUCTED.
   G. UPON SIGNIFICANT COMPLETION OF CONSTRUCTION, THE STORMWATER SYSTEM SHALL BE FLUSHED OUT TO REMOVE ACCUMULATED DEBRIS AND SEDIMENT.
   H. EXISTING STORMWATER BASINS WILL BE SCRAPED CLEAN OF ACCUMULATED SEDIMENT.
   I. ALL DISTURBED AREAS WITHIN THE CONSTRUCTION AREA SHALL BE COMPLETELY GRASSED AND/OR LANDSCAPED. EVIDENCE OF GROWTH MUST BE PRESENT PRIOR TO REMOVAL OF SILT FENCING AND OTHER EROSION CONTROL APPLICATIONS.

III. CONTROLS:

THE CONTROLS SHALL BE IMPLEMENTED AND MAINTAINED DURING THE ENTIRE CONSTRUCTION OF THE PROJECT. IF SITE CONDITIONS ARE SUCH THAT ADDITIONAL CONTROL MEASURES ARE REQUIRED THAN WHAT IS SPECIFIED IN THE EROSION AND SEDIMENTATION CONTROL PLAN, THEN THE CONTRACTOR SHALL IMPLEMENT ADDITIONAL BEST MANAGEMENT PRACTICES NECESSARY.

1. THE CONSTRUCTION ACCESS SHALL BE STABILIZED WITH GRAVEL AND TEMPORARY VEGETATION TO PREVENT SILT LEAVING THE SITE.
2. TREE BARRICADES SHALL BE IMPLEMENTED BEFORE CLEARING AND GRUBBING OF ANY OF THE WORK AREAS.
3. BEFORE CLEARING, SILT FENCES SHALL BE INSTALLED AROUND THE PERIMETER OF THE CONSTRUCTION AND AROUND THE WETLAND(S) AND/OR BASIN(S) AS SHOWN IN THE PLANS. ALL EXISTING STORM DRAINAGE SWALES AND INLETS SHALL BE PROTECTED PER THE FDOT FLORIDA EROSION AND SEDIMENTATION CONTROL MANUAL.
4. AFTER CLEARING BUT BEFORE EXCAVATION AND GRADING, TEMPORARY BERMS AND SWALES SHALL BE CONSTRUCTED AS REQUIRED TO DIVERT THE FLOW INTO THE CORRESPONDING STORMWATER BASIN.
5. THE BASIN (ALL BASIN) AREA(S) SHALL BE PROTECTED AS INDICATED ON THE PLANS.
6. THE STORMWATER BASIN(S) SHALL BE ROUGH GRADED TO WITHIN 6" OF THE DESIGNED BASIN BOTTOM. THE BASIN SIDE SLOPES SHALL BE STABILIZED AS SHOWN IN THE PLANS BY SEEDING, MULCHING AND/OR SODDING TO PREVENT EXCESSIVE EROSION.
7. DURING CONSTRUCTION OF PAVING AND BUILDINGS, EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE INSTALLED AS REQUIRED.
8. ALL DISTURBED AREAS WITHIN THE CONSTRUCTION SITE SHALL BE COMPLETELY LANDSCAPED AND/OR GRASSED. FINAL STABILIZATION (INCLUDING SEEDING, MULCHING, SODDING OR RIPRAP) SHALL BE INSTALLED AS REQUIRED. GRASS SEEDING RATES AND MIXTURES SHALL BE PER FDOT INDEX 104. EVIDENCE OF GROWTH MUST BE PRESENT PRIOR TO REMOVAL OF SILT FENCING AND OTHER EROSION CONTROL APPLICATIONS AND PRIOR TO FINAL RELEASE.

IV. EROSION AND SEDIMENTATION CONTROLS:

STABILIZATION PRACTICES

1. ALL ENTRANCES TO THE SITE SHALL BE STABILIZED BEFORE CONSTRUCTION AND FURTHER DISTURBANCE BEGINS. GRAVEL PAD SHALL PROVIDE STABILIZATION AND MINIMIZE THE AMOUNT OF SEDIMENT LEAVING THE SITE. MAINTENANCE OF THE ENTRANCE SHALL INCLUDE SWEEPING OF THE AREA ADJACENT TO THE ENTRANCE. STONE AND GRAVEL MIGHT NEED TO BE PERIODICALLY ADDED TO MAINTAIN THE EFFECTIVENESS OF THE ENTRANCE(S).
2. TREE BARRICADES SHALL BE INSTALLED AROUND THE TREES AS SHOWN IN THE DETAIL PLAN TO PROTECT THE EXISTING VEGETATION.
3. MULCH SHALL BE PLACED IN THE AREAS REQUIRED TO PREVENT EROSION FROM STORMWATER RUNOFF AND THE AREAS SHOWN ON THE PLANS. MULCH SHALL BE ANCHORED TO RESIST WIND DISPLACEMENT AND SHALL BE INSPECTED AFTER EVERY RAINSTORM TO IDENTIFY AREAS WHERE MULCH HAS BEEN WASHED OUT OR LOOSENED. THESE AREAS SHALL HAVE MULCH COVER REPLACEMENT.
4. SEEDING SHALL BE STARTED AFTER GRADING HAS BEEN FINISHED ON THE AREAS SHOWN IN THE PLANS. SEEDED AREAS SHOULD BE INSPECTED FOR FAILURE TO ESTABLISH, AND NECESSARY REPAIRS AND RESEEDING SHOULD BE MADE AS SOON AS POSSIBLE. ADDITIONAL SEEDING AND MULCH MAY BE REQUIRED AS NECESSARY TO PREVENT EROSION DURING OR AFTER CONSTRUCTION HAS FINISHED.
5. SOD SHALL BE INSTALLED IN THE AREAS SHOWN IN THE PLANS. SOD SHALL BE PEGGED IF INSTALLED ON SLOPES GREATER THAN 3:1. SODDED AREAS SHALL BE MAINTAINED AND INSPECTED TO ENSURE SUCCESSFUL ESTABLISHMENT.

SEDIMENTATION PRACTICES

1. SILT FENCES SHALL BE INSTALLED IN THE AREAS SHOWN IN THE PLANS AND AS REQUIRED TO PREVENT SEDIMENT FROM LEAVING THE CONSTRUCTION AREA. SILT FENCES SHALL BE INSPECTED AFTER EACH RAINFALL EVENT TO ENSURE THAT THERE ARE NO GAPS OR TEARS. IF GAPS OR TEARS ARE FOUND THE FABRIC SHOULD BE REPAIRED OR REPLACED. SEDIMENT REMOVAL SHALL BE PART OF THE REGULAR MAINTENANCE. SILT FENCES SHALL REMAIN IN PLACE UNTIL CONSTRUCTION HAS FINISHED AND DISTURBED AREAS ARE PERMANENTLY STABILIZED.
2. DIVERSION SWALES, IF REQUIRED, SHALL BE CONSTRUCTED BEFORE MAJOR LAND DISTURBANCE OF THE RECEIVING BASIN. DIVERSION SWALES SHALL BE STABILIZED AFTER CONSTRUCTION TO MAINTAIN ITS EFFICIENCY.
3. INLETS SHOULD BE TEMPORARILY PROTECTED TO PREVENT SEDIMENT ENTERING THE INLET. BARRIERS WILL CATCH SOIL, DEBRIS AND SEDIMENT AT THE ENTRANCE OF THE INLET.
4. OUTFALL STRUCTURES SHALL HAVE SILT FENCES TO PREVENT SILT FROM ENTERING THE STORMWATER BASINS AND SHALL BE STABILIZED AS REQUIRED TO PREVENT EROSION FROM WASHOUTS.

V. STORMWATER MANAGEMENT:

1. THE PROPOSED PROJECT OBTAINED AN ENVIRONMENTAL RESOURCE PERMIT FROM SUWANNEE RIVER WATER MANAGEMENT DISTRICT (SRWMD) FOR THE CONSTRUCTION AND OPERATION OF A STORMWATER TREATMENT SYSTEM AND CONTROLS. THE PROPOSED SYSTEM (AS SHOWN ON THE PLANS) INCLUDED THE USE OF THE BEST MANAGEMENT PRACTICES (BMP) CONSISTENT WITH THE APPLICABLE REQUIREMENTS OF RULE 40C-42 OF THE DISTRICT. THE OWNER AND/OR THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE OPERATION AND MAINTENANCE OF THE STORMWATER TREATMENT SYSTEM AND CONTROLS UNTIL CONSTRUCTION ACTIVITIES ARE COMPLETED AND FINAL STABILIZATION HAS BEEN ACCOMPLISHED. HOWEVER, THE OWNER AND/OR AN ENTITY SIMILAR TO A HOMEOWNERS ASSOCIATION SHALL BE RESPONSIBLE FOR THE OPERATION AND MAINTENANCE OF THE STORMWATER SYSTEM IN PERPETUITY, IN ACCORDANCE WITH THE REQUIREMENTS OF THE ENVIRONMENTAL RESOURCE PERMIT.
2. TO TREAT AND CONTROL THE STORMWATER PRODUCED BY THE PROPOSED DEVELOPMENT, THE PROJECT REQUIRES THE INSTALLATION AND CONSTRUCTION OF THE FOLLOWING BMP'S: 2 DRY RETENTION BASINS WITH ALL GRADING ASSOCIATED WITH THE CONSTRUCTION. THE BASIN SYSTEM HAS BEEN DESIGNED TO CONTAIN AND ATTENUATE THE STORMS AND DISCHARGE AT PRE-DEVELOPMENT CONDITIONS, WHILE PROVIDING TREATMENT TO THE RUNOFF AS REQUIRED BY THE DISTRICT AND STATE RULES USING THE GUIDELINES CONTAINED IN THE SRWMD HANDBOOK.
3. AREA 1 WILL HAVE A DRY RETENTION BASIN THAT DISCHARGES TO THE EXISTING STORMWATER SYSTEM ALONG THE RIGHT-OF-WAY OF US HWY 441. AREA 2 WILL HAVE A DRY RETENTION BASIN THAT DISCHARGES TO THE EXISTING WETLAND.

VI. CONTROLS FOR OTHER POTENTIAL POLLUTANTS:

1. WASTE DISPOSAL: NO SOLID MATERIALS, INCLUDING CONSTRUCTION MATERIALS, SHALL BE DISCHARGED TO SURFACE WATERS AND ARE NOT AUTHORIZED UNDER THE ISSUED ENVIRONMENTAL RESOURCE PERMIT.
2. THE USE OF GRAVEL AND CONTINUING SWEEPING ACTIVITIES AT THE ENTRANCE OF THE SITE WILL CONTROL THE TRACKING OF SEDIMENT AND DUST LEAVING THE SITE.
3. THE PROPOSED DEVELOPMENT WILL PROVIDE WATER AND SEWER SYSTEM BY CONNECTING INTO THE CENTRAL MUNICIPAL SYSTEM OF GAINESVILLE REGIONAL UTILITIES.
4. ANY APPLICATION OF FERTILIZERS AND PESTICIDES NECESSARY TO ESTABLISH AND MAINTENANCE OF VEGETATION DURING CONSTRUCTION AND THROUGH PERPETUITY MAINTENANCE SHALL FOLLOW THE MANUFACTURERS RECOMMENDATIONS AND THE APPLICABLE RULES OF THE STATE OF FLORIDA.
5. ANY TOXIC MATERIALS REQUIRED DURING CONSTRUCTION SHALL BE PROPERLY STORED, DISPOSED OF AND CONTRACTOR AND/OR OWNER SHALL PROVIDE THE APPROPRIATE PERMITS FROM THE LOCAL OR STATE AGENCIES.

VII. APPROVED STATE OR LOCAL PLANS:

1. ALL THE SEDIMENT AND EROSION CONTROLS THAT ARE LISTED IN THE SITE PLAN AS APPROVED BY THE SRWMD ARE INCLUDED IN THIS STORMWATER POLLUTION PREVENTION PLAN (SEE ITEM III AND IV).
2. THIS STORMWATER POLLUTION PREVENTION PLAN SHALL BE AMENDED IF REQUIRED BY ANY LOCAL OR STATE AGENCY OR AS REQUIRED BY UNFORESEEABLE CONDITIONS AND THE OWNER SHALL SUBMIT A RE-CERTIFICATION TO THE NPDES STATE OFFICE THAT THE PLAN HAS BEEN AMENDED TO ADDRESS THOSE CHANGES.

VIII. MAINTENANCE:

THE CONTRACTOR IS RESPONSIBLE FOR THE MAINTENANCE, INSPECTION SCHEDULE, AND REPAIRS OUTLINED IN THIS PLAN. MAINTENANCE SHALL CONTINUE THROUGHOUT THE PROJECT UNTIL WORK IS COMPLETE. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES AFTER CONSTRUCTION IS COMPLETE.

IN ADDITION TO THE ITEMS MENTIONED IN THE PREVIOUS SECTIONS, THE CONTRACTOR SHALL INITIATE ANY REPAIRS WITHIN 24 HOURS OF BEING REPORTED. IN THE EVENT THAT THE BASINS DO NOT PERFORM PROPERLY OR IF A SINKHOLE DEVELOPS, THE PROJECT ENGINEER SHALL BE NOTIFIED TO ASSIST IN COORDINATING REMEDIAL ACTION.

1. MAINTENANCE WOULD BE DIVIDED IN ROUTINE MAINTENANCE AND REPAIR MAINTENANCE. ALL STORMWATER BMP'S SHOULD BE INSPECTED FOR CONTINUED EFFECTIVENESS AND STRUCTURAL INTEGRITY ON A REGULAR BASIS. THE SYSTEMS SHOULD BE CHECKED AFTER EACH STORM EVENT IN ADDITION TO REGULARLY SCHEDULED INSPECTIONS.
2. ROUTINE MAINTENANCE REQUIREMENTS SHOULD BE INCLUDED IN THE INSPECTOR CHECKLIST TO AID THE INSPECTOR IN DETERMINING WHETHER A BMP'S MAINTENANCE IS ADEQUATE OR NEEDS A REVISION. INSPECTORS SHALL KEEP RECORD OF MAINTENANCE, ROUTINE OR REPAIR, TO PROVIDE EVIDENCE OF AN EFFICIENT INSPECTION AND MAINTENANCE.
3. SIDE ENTRANCES: MAINTENANCE SHALL INCLUDE REPLACEMENT OF GRAVEL AND CLEANING THE SOIL THAT IS TRACKED OFFSITE FOR PROPER DISPOSAL.
4. TREE BARRICADES: MAINTENANCE SHALL INCLUDE INSPECTION OF MESH AND POSTS AND REPAIR OR REPLACEMENT OF DAMAGED VEGETATION.
5. SILT FENCES: MAINTENANCE SHALL INCLUDE SEDIMENT REMOVAL AND INSPECTION TO ENSURE PROPER ANCHORING AND THAT NO TEARING OR GAPS HAVE OCCURRED. ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT HAS REACHED ONE-THIRD THE HEIGHT OF SILT FENCE.
6. DIVERSION SWALES: MAINTENANCE SHALL INCLUDE INSPECTION AFTER EVERY RAINFALL EVENT AND ONCE EVERY TWO WEEKS BEFORE FINAL STABILIZATION. THEY SHOULD BE CLEARED OF SEDIMENT AND MAINTAIN VEGETATIVE COVER.
7. TEMPORARY BERMS: MAINTENANCE SHALL INCLUDE REMOVAL OF DEBRIS, TRASH SEDIMENT AND LEAVES. SIDES OF THE BERM SHALL BE INSPECTED FOR EROSION AFTER EACH STORM EVENT.
8. MULCHING: ROUTINE MAINTENANCE SHALL INCLUDE REPLACEMENT PERIODICALLY.
9. SEEDING: ROUTINE MAINTENANCE SHALL INCLUDE RESEEDING OF AREAS THAT FAILED TO ESTABLISH.
10. SODDING: ROUTINE MAINTENANCE SHALL INCLUDE WATERING AND MOWING. REPLACEMENT OF GRASS MAY BE NECESSARY IF COVER IS NOT FULLY ESTABLISHED.
11. INLETS: ROUTINE MAINTENANCE SHALL INCLUDE INSPECTION AFTER EVERY STORM EVENT AND MIGHT INCLUDE REMOVAL OF ACCUMULATED SEDIMENT.
12. OUTFALL STRUCTURES: ROUTINE MAINTENANCE SHALL INCLUDE INSPECTION AFTER EVERY STORM EVENT TO ASSURE NO EROSION OR SCOUR HAS OCCURRED.
13. DRY RETENTION BASINS: ROUTINE MAINTENANCE SHALL INCLUDE MONITORING FOR SEDIMENT ACCUMULATION, CLEAN AND REMOVE DEBRIS FROM INLETS AND OUTLETS, MOW SIDE SLOPES AND INSPECT FOR DAMAGE OF BERMS AND REPAIR UNDERCUT OR ERODED AREAS AS NECESSARY.
14. WET DETENTION BASINS: ROUTINE MAINTENANCE SHALL INCLUDE MONITORING FOR SEDIMENT ACCUMULATION, CLEAN AND REMOVE DEBRIS FROM INLETS AND OUTLETS, MOW SIDE SLOPES AND INSPECT FOR DAMAGE OF BERMS AND REPAIR UNDERCUT OR ERODED AREAS AS NECESSARY.

IX. INSPECTIONS:

1. THE OWNER AND /OR CONTRACTOR SHALL PROVIDE QUALIFIED PERSONNEL TO INSPECT ALL POINTS OF POTENTIAL DISCHARGE FROM THE PROJECT SITE FOR DISTURBED AREAS, THE EROSION AND SEDIMENTATION CONTROLS AND BMP'S AS LISTED IN THIS PLAN. THE INSPECTION SHALL BE PERFORMED DURING CONSTRUCTION AND BEFORE FINAL STABILIZATION, ONCE EVERY SEVEN-CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM THAT IS GREATER THAN 0.50 INCHES. AFTER FINAL STABILIZATION AND BEFORE FINISH OF CONSTRUCTION THE INSPECTION SHALL BE CONDUCTED ONCE EVERY MONTH.
2. THE CONTRACTOR SHALL INSTALL A RAIN GAUGE AT THE SITE TO MONITOR AND DOCUMENT RAINFALL EVENTS IN EXCESS OF 0.50 INCHES.
3. ALL DISTURBED AREAS AND AREAS USED FOR MATERIALS STORAGE SHALL BE INSPECTED FOR POLLUTANTS ENTERING THE STORMWATER SYSTEM. THE STORMWATER MANAGEMENT SYSTEM AND EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN SHALL BE INSPECTED TO ENSURE THEY ARE OPERATING CORRECTLY. LOCATIONS WHERE VEHICLES ENTER AND LEAVE THE SITE SHALL BE INSPECTED FOR EVIDENCE OF OFFSITE SEDIMENT TRACKING.
4. REPAIR OR MAINTENANCE NEEDED TO ASSURE PROPER OPERATION OF THE STORMWATER POLLUTION PREVENTION PLAN SHALL BE DONE IN A TIMELY MANNER BUT NO LATER THAN 7 CALENDAR DAYS FOLLOWING THE INSPECTION.
5. A REPORT SHALL BE KEPT OF EACH INSPECTION FOR THREE YEARS AFTER FINAL STABILIZATION AND SHALL INCLUDE THE DATES OF EACH INSPECTION, THE SCOPE OF THE INSPECTION, MAJOR OBSERVATIONS, ANY REPAIR AND/OR MAINTENANCE REQUIRED AND ANY INCIDENT OF NON-COMPLIANCE. IF THE REPORT DOES NOT CONTAIN ANY INCIDENTS OF NON-COMPLIANCE, THE REPORT SHALL CONTAIN A CERTIFICATION THAT THE FACILITY HAS BEEN IN COMPLIANCE WITH THE STORMWATER POLLUTION PREVENTION PLAN AND THE NPDES PERMIT. THE REPORT SHALL INCLUDE THE NAME AND QUALIFICATIONS OF THE INSPECTOR AND SHALL BE SIGNED IN ACCORDANCE TO FDEP RULE 62-621.300, PART VII.C. A COPY OF THE CONSTRUCTION INSPECTION FORM IS INCLUDED ON THIS STORMWATER POLLUTION PREVENTION PLAN SHEET. A COPY SHALL BE RETAINED AT THE CONSTRUCTION SITE FROM THE DATE OF PROJECT INITIATION TO THE DATE OF FINAL STABILIZATION.

X. NON-STORMWATER DISCHARGES:

1. THE FOLLOWNG NON-STORMWATER DISCHARGES MIGHT BE COMBINED WITH STORMWATER AND WOULD BE AUTHORIZED AS PART OF THIS PERMIT: FIRE HYDRANT FLUSHING, CONTROL OF DUST, POTABLE WATER FLUSHING AND IRRIGATION DRAINAGE. BECAUSE OF THE NATURE OF THESE DISCHARGES, THE EROSION, STABILIZATION AND TREATMENT SYSTEMS TO BE IMPLEMENTED, AS PART OF THIS PLAN WOULD BE APPROPRIATE TO PREVENT AND TREAT ANY POLLUTION RELATED TO THESE NON-STORMWATER DISCHARGES.
2. DISCHARGES FROM DEWATERING ACTIVITIES ASSOCIATED WITH SITE CONSTRUCTION ARE NOT AUTHORIZED AND REQUIRED CONSTRUCTION OF TEMPORARY SEDIMENTATION BASINS AND USE OF APPROPRIATE FLOCCULATING AGENTS TO ENHANCE PARTICLE SEGREGATION AND SPEED UP SETTLING OF PARTICLES.

XI. CONTRACTORS:

1. ALL CONTRACTORS AND/OR SUBCONTRACTORS RESPONSIBLE FOR IMPLEMENTING THE PLAN SHALL SIGN THE CERTIFICATION STATEMENT BEFORE STARTING CONSTRUCTION ACTIVITIES OF THE PROJECT. THE CERTIFICATION MUST INCLUDE THE NAME AND TITLE OF THE PERSON PROVIDING THE SIGNATURE, THE NAME, ADDRESS AND TELEPHONE NUMBER OF THE CONTRACTING FIRM, THE ADDRESS OF THE SITE AND THE DATE THE CERTIFICATION IS MADE. THE OWNER SHALL KEEP THESE CERTIFICATIONS AS PART OF THIS POLLUTION PLAN. MULTIPLE COPIES OF THE CERTIFICATION STATEMENT MAY BE NECESSARY DEPENDING UPON THE NUMBER OF SUBCONTRACTORS ASSOCIATED WITH THE PROJECT.

CERTIFICATION STATEMENT

"I CERTIFY UNDER PENALTY OF LAW THAT I UNDERSTAND AND SHALL COMPLY WITH THE TERMS AND CONDITIONS OF THE STATE OF FLORIDA GENERIC PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES AND THIS STORMWATER POLLUTION PREVENTION PLAN PREPARED THEREUNDER."

CONTRACTING FIRM: _____

ADDRESS: _____

CITY, STATE, ZIP CODE: _____

TELEPHONE: _____

FAX: _____

PROJECT NAME: SAN FELASCO TECH CITY – BUILDING C AND D

PROJECT ADDRESS: _____

PROJECT ADDRESS: _____

CITY, STATE, ZIP CODE: , FLORIDA.

NAME: _____ SIGNATURE: _____

DATE: _____

STORMWATER POLLUTION PREVENTION PLAN INSPECTION REPORT FORM

Inspections must occur at least once a week and within 24 hours of the end of a storm event that is 0.50 inches or greater.

PROJECT NAME: **SAN FELASCO TECH CITY PHASE 2** FDEP NPDES STORMWATER IDENTIFICATION NO.: FLR10 _____

OWNER: _____ CONTRACTOR: _____

CONSTRUCTION MANAGER: _____

Date of Inspection	Location	Rain data	Type of control (see below)	Date installed / modified	Current Condition (see below)	Observations or Corrective Action / Other Remarks	Inspected By

CONDITION CODE: G = Good; C = Needs to be cleaned; M = Marginal, needs maintenance or replacement soon; P = Poor, needs immediate maintenance or replacement; O = Other

CONTROL TYPE CODES

1. Silt Fence	10. Storm drain inlet protection	19. Reinforced soil retaining system	28. Tree protection
2. Earth dikes	11. Vegetative buffer strip	20. Gabion	29. Detention pond
3. Structural diversion	12. Vegetative preservation area	21. Sediment Basin	30. Retention pond
4. Swale	13. Retention Pond	22. Temporary seed / sod	31. Waste disposal / housekeeping
5. Sediment Trap	14. Construction entrance stabilization	23. Permanent seed / sod	32. Dam
6. Check dam	15. Perimeter ditch	24. Mulch	33. Sand Bag
7. Subsurface drain	16. Curb and gutter	25. Hay Bales	34. Other
8. Pipe slope drain	17. Paved road surface	26. Geotextile	
9. Level spreaders	18. Rock outlet protection	27. Rip-rap	

INSPECTOR INFORMATION:

_____ Name _____ Qualification _____ Date

The above signature also shall certify that this facility is in compliance with the Stormwater Pollution Prevention Plan and the State of Florida Generic Permit for Stormwater Discharge from Large and Small Construction Activities if there are not any incidents of non compliance identified above.

* * * * * *

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

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No.	Date	Comment

Professional Engineer of Record:
SERGIO J. REYES, P.E. LICENSE No. 47311 STATE OF FLORIDA
Sergio J. Reyes, P.E. 47311
Engineer Certificate No.

Project No: 18-162

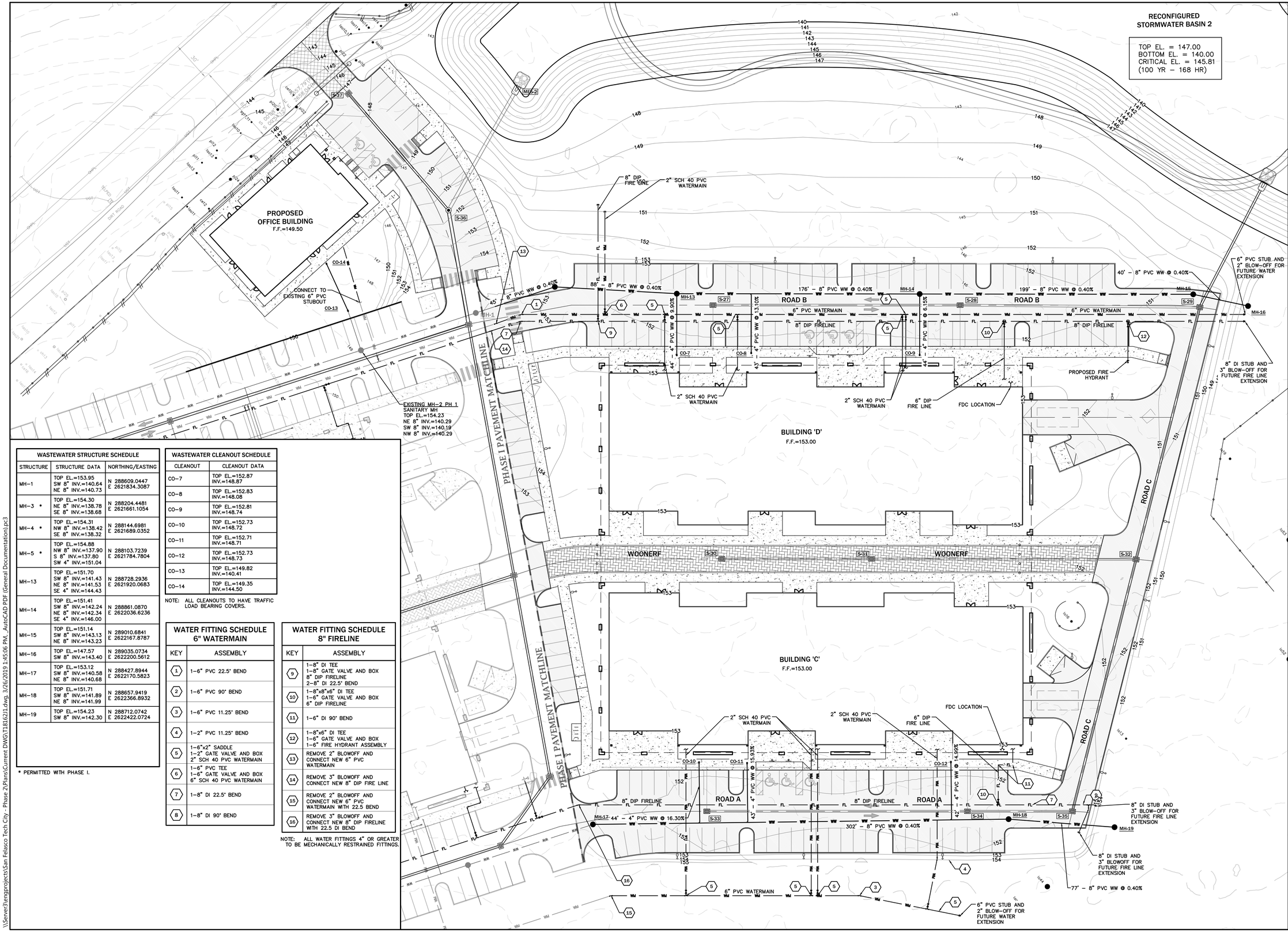
Project phase: CITY SUBMITTAL

Project title: SAN FELASCO TECH CITY PHASE 2 CITY OF ALACHUA, FLORIDA

Sheet title: STORMWATER POLLUTION PREVENTION PLAN

Designed: DJM
Drawn: JAB/MAB
Checked: SJR
Date: 03/26/19

Sheet No.: C215



WASTEWATER STRUCTURE SCHEDULE

STRUCTURE	STRUCTURE DATA	NORTHING/EASTING
MH-1	TOP EL.=153.95 SW 8" INV.=140.64 NE 8" INV.=140.73	N 288609.0447 E 2621834.3087
MH-3 *	TOP EL.=154.30 NE 8" INV.=138.78 SE 8" INV.=138.68	N 288204.4481 E 2621661.1054
MH-4 *	TOP EL.=154.31 NW 8" INV.=138.42 SE 8" INV.=138.32	N 288144.6981 E 2621689.0352
MH-5 *	TOP EL.=154.88 NW 8" INV.=137.90 S 8" INV.=137.80 SW 4" INV.=151.04	N 288103.7239 E 2621784.7804
MH-13	TOP EL.=151.70 SW 8" INV.=141.43 NE 8" INV.=141.53 SE 4" INV.=144.43	N 288728.2936 E 2621920.0683
MH-14	TOP EL.=151.41 SW 8" INV.=142.24 NE 8" INV.=142.34 SE 4" INV.=146.00	N 288861.0870 E 2622036.6236
MH-15	TOP EL.=151.14 SW 8" INV.=143.13 NE 8" INV.=143.23	N 289010.6841 E 2622167.8787
MH-16	TOP EL.=147.57 SW 8" INV.=143.40	N 289035.0734 E 2622200.5612
MH-17	TOP EL.=153.12 SW 8" INV.=140.58 NE 8" INV.=140.68	N 288427.8944 E 2622170.5823
MH-18	TOP EL.=151.71 SW 8" INV.=141.89 NE 8" INV.=141.99	N 288657.9419 E 2622366.8932
MH-19	TOP EL.=154.23 SW 8" INV.=142.30	N 288712.0742 E 2622422.0724

* PERMITTED WITH PHASE I.

WASTEWATER CLEANOUT SCHEDULE

CLEANOUT	CLEANOUT DATA
CO-7	TOP EL.=152.87 INV.=148.87
CO-8	TOP EL.=152.83 INV.=148.08
CO-9	TOP EL.=152.81 INV.=148.74
CO-10	TOP EL.=152.73 INV.=148.72
CO-11	TOP EL.=152.71 INV.=148.71
CO-12	TOP EL.=152.73 INV.=148.73
CO-13	TOP EL.=149.82 INV.=140.41
CO-14	TOP EL.=149.35 INV.=144.50

NOTE: ALL CLEANOUTS TO HAVE TRAFFIC LOAD BEARING COVERS.

WATER FITTING SCHEDULE 6" WATERMAIN

KEY	ASSEMBLY
1	1–6" PVC 22.5° BEND
2	1–6" PVC 90° BEND
3	1–6" PVC 11.25° BEND
4	1–2" PVC 11.25° BEND
5	1–6"x2" SADDLE 1–2" GATE VALVE AND BOX 2" SCH 40 PVC WATERMAIN
6	1–6" PVC TEE 1–6" GATE VALVE AND BOX 6" SCH 40 PVC WATERMAIN
7	1–8" DI 22.5° BEND
8	1–8" DI 90° BEND

WATER FITTING SCHEDULE 8" FIRELINE

KEY	ASSEMBLY
9	1–8" DI TEE 1–8" GATE VALVE AND BOX 8" DIP FIRELINE 2–8" DI 22.5° BEND
10	1–8"x8"x6" DI TEE 1–6" GATE VALVE AND BOX 6" DIP FIRELINE
11	1–6" DI 90° BEND
12	1–8"x6" DI TEE 1–6" GATE VALVE AND BOX 1–6" FIRE HYDRANT ASSEMBLY
13	REMOVE 2" BLOWOFF AND CONNECT NEW 6" PVC WATERMAIN
14	REMOVE 3" BLOWOFF AND CONNECT NEW 8" DIP FIRE LINE
15	REMOVE 2" BLOWOFF AND CONNECT NEW 6" PVC WATERMAIN WITH 22.5 BEND
16	REMOVE 3" BLOWOFF AND CONNECT NEW 8" DIP FIRELINE WITH 22.5 DI BEND

NOTE: ALL WATER FITTINGS 4" OR GREATER TO BE MECHANICALLY RESTRAINED FITTINGS.

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NORTH
SCALE: 1" = 30'
0 15 30 60
GRAPHIC SCALE

No.	Date	Comment

Professional Engineer of Record:
SERGIO J. REYES
LICENSE
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STATE OF
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PROFESSIONAL ENGINEER
Sergio J. Reyes, P.E. 47311
Engineer Certificate No.

Project No: 18-162

Project phase: CITY SUBMITTAL

Project title:
SAN FELASCO TECH CITY
PHASE 2
CITY OF ALACHUA,
FLORIDA

Sheet title: UTILITY PLAN

Designed: DJM
Drawn: JAB/MAB
Checked: SJR
Date: 03/26/19

Sheet No.: C301

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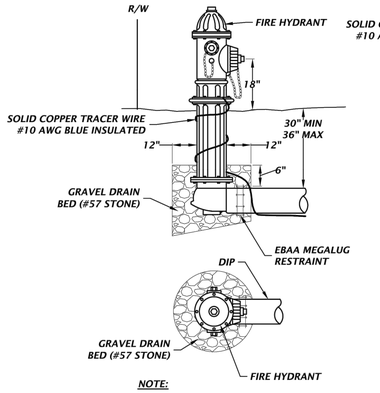
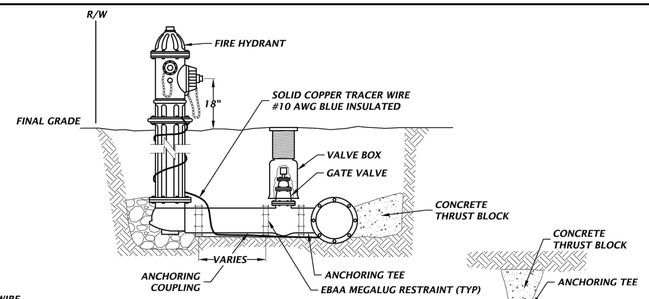


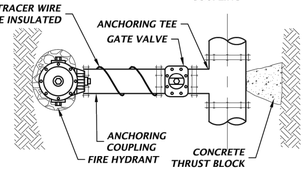
NOTE:

RESTRAIN MINIMUM OF 58' OF PIPE.

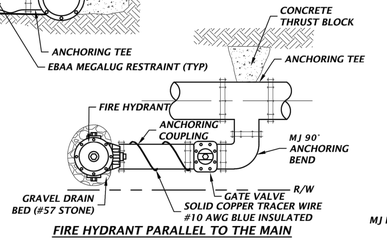
FIRE HYDRANT (DEAD END)

NTS





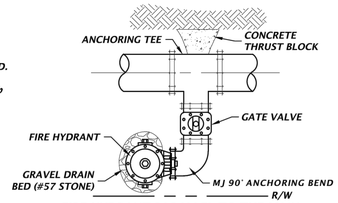
FIRE HYDRANT PERPENDICULAR TO THE MAIN



FIRE HYDRANT PARALLEL TO THE MAIN

NOTES:

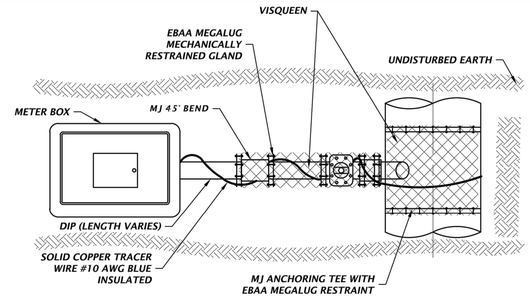
1. *SEE THRUST BLOCK DETAILS FOR BEARING AREA REQUIRED.*
2. *A NONPOROUS MATERIAL 8 MILS (MIN) VISQUEEN OR 15 lb (MIN) FELT SHOULD BE PLACED BETWEEN THE CONCRETE AND THE ENTIRE FITTING.*

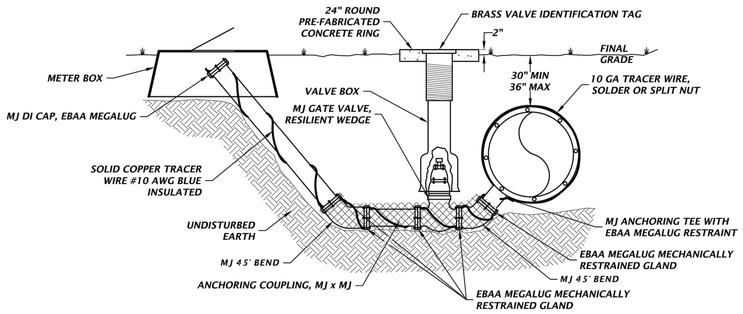


FIRE HYDRANT PARALLEL TO THE MAIN

FIRE HYDRANT (PERPENDICULAR/PARALLEL TO MAIN)

NTS



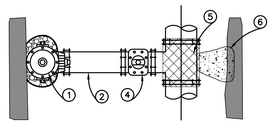


2" AND 3" BLOW-OFF ASSEMBLY

NTS

GENERAL UTILITY NOTES

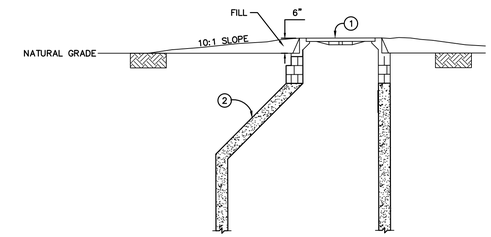
1. CONTRACTOR IS RESPONSIBLE FOR PROTECTION AND VERIFICATION OF EXISTING UTILITIES. ANY EXISTING UTILITY TO BE MODIFIED SHALL BE COORDINATED WITH THE APPROPRIATE UTILITY PROVIDER.
2. WATER METER ASSEMBLIES SHALL BE INSTALLED BY CONTRACTOR.
3. ELECTRIC SERVICE TO BE COORDINATED WITH THE CITY OF ALACHUA PUBLIC SERVICES DEPARTMENT.
4. UTILITY INSTALLATION SHALL NOT TAKE PLACE WITHIN TREE BARRICADE AREA AS SHOWN ON THE PAVING, GRADING AND DRAINAGE PLAN.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DISPOSAL OF UNSUITABLE MATERIALS OFF-SITE AND FURNISH APPROVED MATERIAL PER CITY OF GAINESVILLE FOR SANITARY SEWER LINES BACKFILL AT NO ADDITIONAL COST TO THE OWNER. THE CONTRACTOR MAY DISPOSE OF UNSUITABLE MATERIAL ON-SITE BY APPROVAL OF THE OWNER.
6. NO PERMANENT STRUCTURE SHALL BE CONSTRUCTED WITHIN 10 FEET OF ANY WATER LINE OR 15 FEET OF ANY SEWER LINE.
7. CONTRACTOR SHALL PROTECT LANDSCAPE AND ANY DISTURBED AREAS SHALL BE RESTORED AS EXISTING.



MATERIALS	
ITEM	DESCRIPTION
1	FIRE HYDRANT
2	ANCHORING COUPLING
3	VALVE BOX
4	GATE VALVE
5	ANCHORING TEE
6	CONCRETE THRUST BLOCK (2500 psi)
7	GRAVEL DRAIN BED
8	TRACER WIRE
9	ANCHORING, 90° BEND. M.J.

NOTES:

1. A NONPOROUS MATERIAL 8 MILS (MIN.) VISQUEEN OR 15 lb FELT SHOULD BE PLACED BETWEEN THE CONCRETE AND ENTIRE FITTINGS.



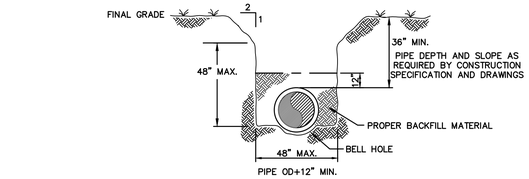
NOTE: WHEN MANHOLE IS OUTSIDE PAVEMENT, THE RIM ELEVATION SHALL BE 6" ABOVE NATURAL GRADE. WITH FILL ADDED FOR A 10:1 SLOPE TO NATURAL GRADE.

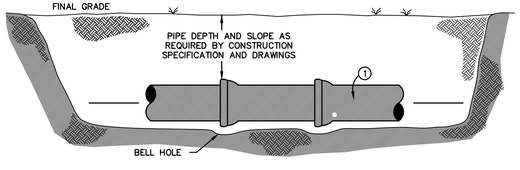
MATERIALS	
ITEM	DESCRIPTION
1	MANHOLE RING & COVER
2	ECCENTRIC CONE

NOTE: IN LOCATIONS WHERE STORMWATER INFILTRATION MAY BE POSSIBLE, A MANHOLE PAN WILL BE REQUIRED.

MANHOLE OUTSIDE OF PAVEMENT

N.T.S.





MATERIALS	
ITEM	DESCRIPTION
1	GRAVITY MAIN PIPE

NOTES:

1. GRAVITY MAIN PIPE SHALL BE INSTALLED AT THE LINE AND GRADE AS SHOWN ON THE PROFILES.

WASTEWATER GRAVITY MAIN CONSTRUCTION

N.T.S.

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SCALES:
AS SHOWN

No.	Date	Comment

Professional Engineer of Record:

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Sergio J. Reyes, P.E. 47311
Engineer Certificate No.

Project No: 18-162

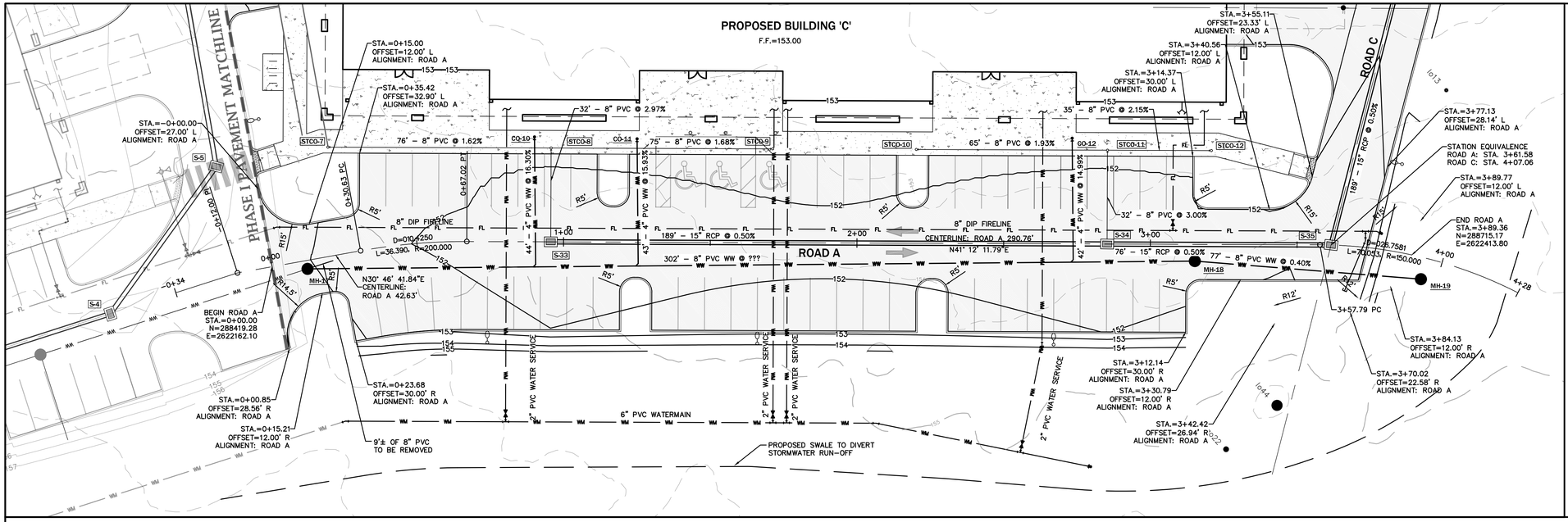
Project phase: CITY SUBMITTAL

Project title: SAN FELASCO TECH CITY PHASE 2 CITY OF ALACHUA, FLORIDA

Sheet title: UTILITY DETAILS

Designed: DJM
Drawn: JAB/MAB
Checked: SJR
Date: 03/26/19

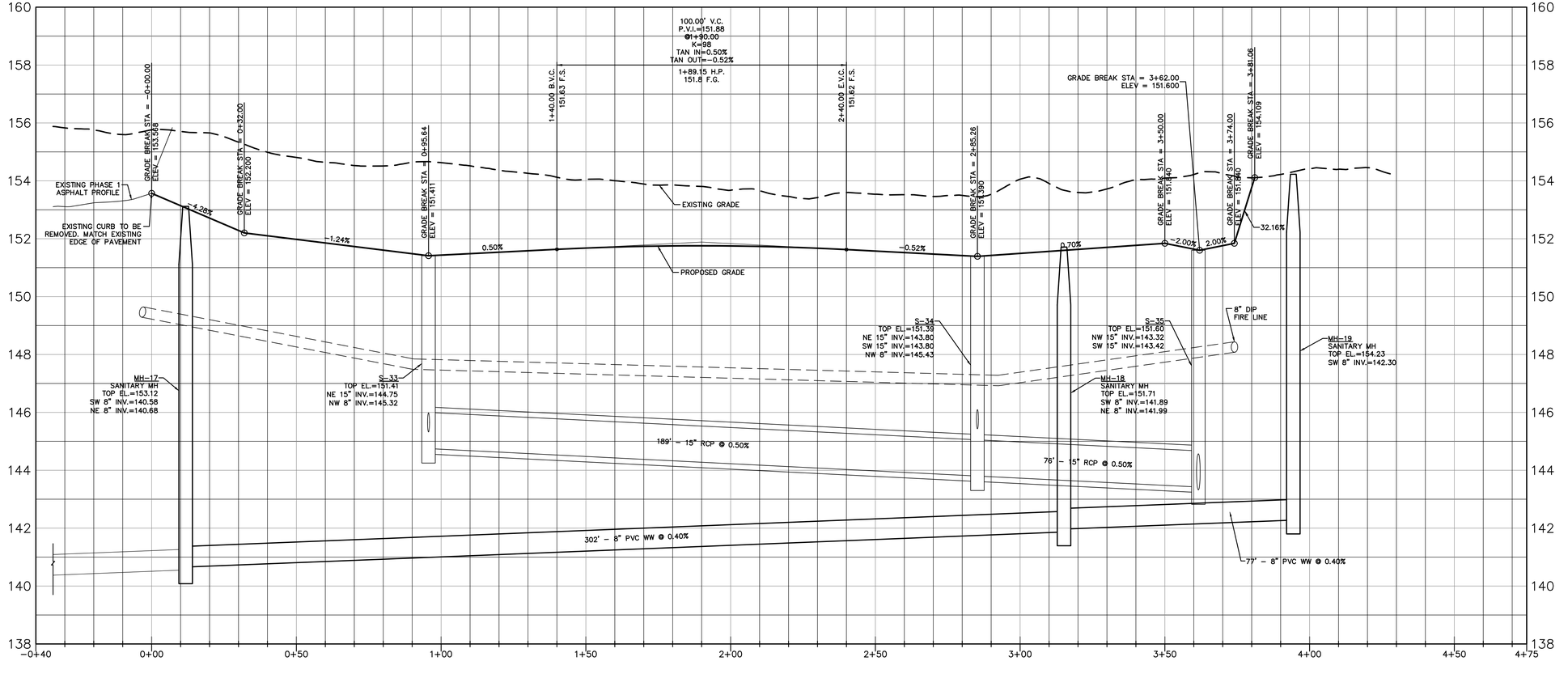
Sheet No.: C305



WASTEWATER CLEANOUT SCHEDULE	
CLEANOUT	CLEANOUT DATA
CO-10	TOP EL.=152.73 INV.=148.72
CO-11	TOP EL.=152.71 INV.=148.71
CO-12	TOP EL.=152.73 INV.=148.73

STORMWATER CLEANOUT SCHEDULE	
CLEANOUT	CLEANOUT DATA
STCO-7	TOP EL.=152.50 INV.=147.50
STCO-8	TOP EL.=152.65 INV.=146.27
STCO-9	TOP EL.=152.27 INV.=147.54
STCO-10	TOP EL.=152.65 INV.=147.65
STCO-11	TOP EL.=152.65 INV.=146.39
STCO-12	TOP EL.=152.65 INV.=147.15

ROAD A PROFILE



PROFILE SCALES:
HORIZONTAL: 1"= 20'
VERTICAL: 1" = 2'

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SCALE: 1" = 20'
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GRAPHIC SCALE

No.	Date	Comment

Professional Engineer of Record:
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Sergio J. Reyes, P.E. 47311
Engineer Certificate No.

Project No:
18-162

Project phase:
CITY SUBMITTAL

Project title:
SAN FELASCO TECH CITY
PHASE 2
CITY OF ALACHUA,
FLORIDA

Sheet title:
ROAD A PLAN & PROFILE

Designed: DJM	Sheet No.:
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Checked: SJR	
Date: 03/26/19	

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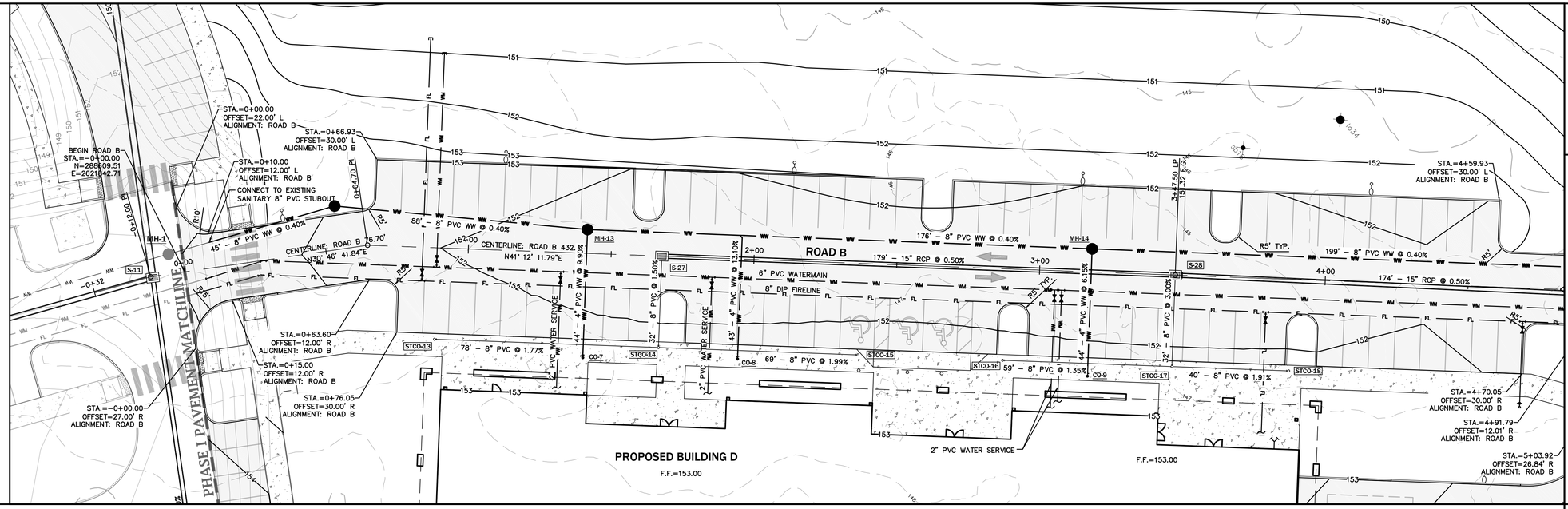
WASTEWATER CLEANOUT SCHEDULE	
CLEANOUT	CLEANOUT DATA
CO-7	TOP EL.=152.87 INV.=148.87
CO-8	TOP EL.=152.83 INV.=148.08
CO-9	TOP EL.=152.81 INV.=148.74

STORMWATER CLEANOUT SCHEDULE	
CLEANOUT	CLEANOUT DATA
STCO-13	TOP EL.=152.82 INV.=147.15
STCO-14	TOP EL.=152.79 INV.=145.76
STCO-15	TOP EL.=152.60 INV.=147.15
STCO-16	TOP EL.=152.74 INV.=146.90
STCO-17	TOP EL.=152.71 INV.=146.10
STCO-18	TOP EL.=152.69 INV.=146.88



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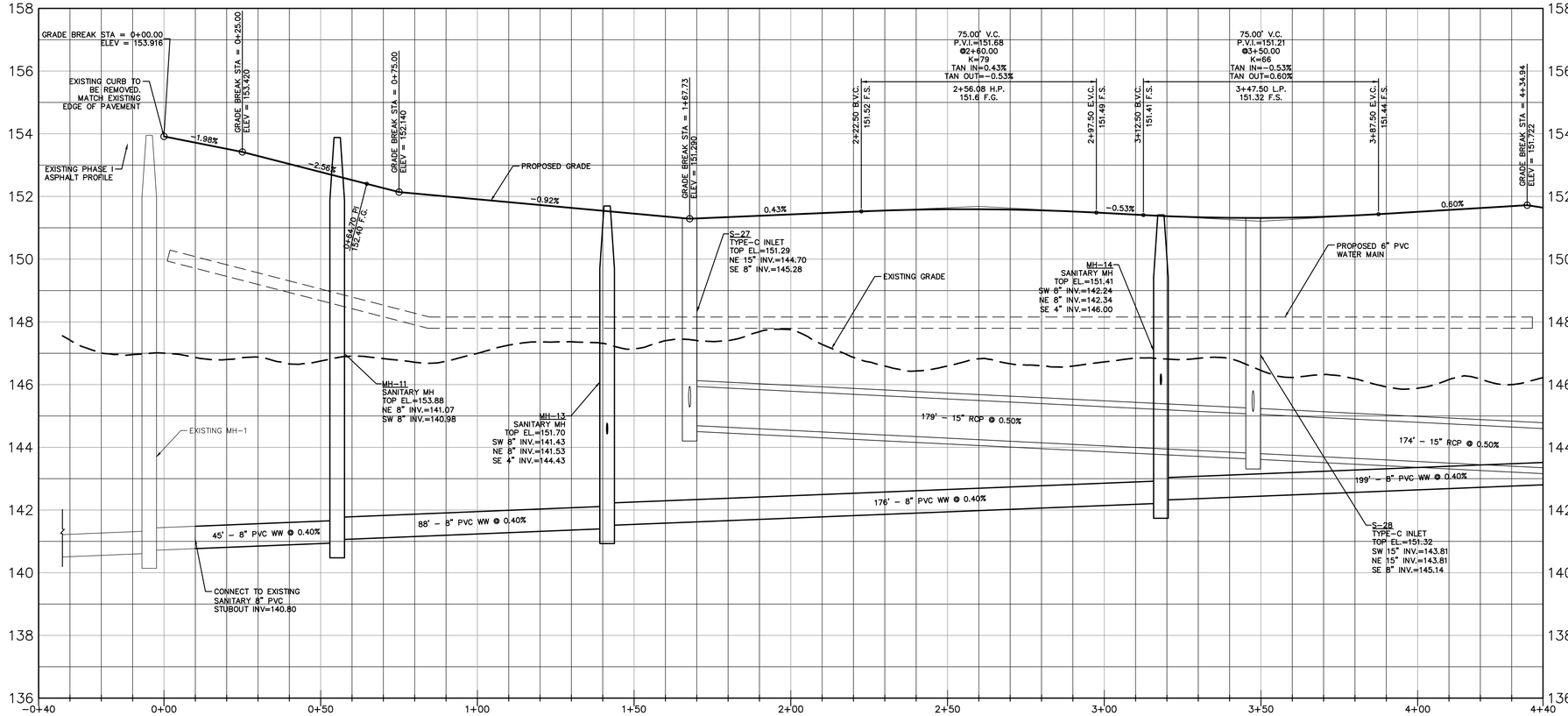

PROFILE SCALES:
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VERTICAL: 1" = 2'

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NORTH
SCALE: 1" = 20'
0 10 20 40
GRAPHIC SCALE

No.	Date	Comment

Professional Engineer of Record:
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Sergio J. Reyes, P.E. 47311
Engineer Certificate No.

Project No: 18-162

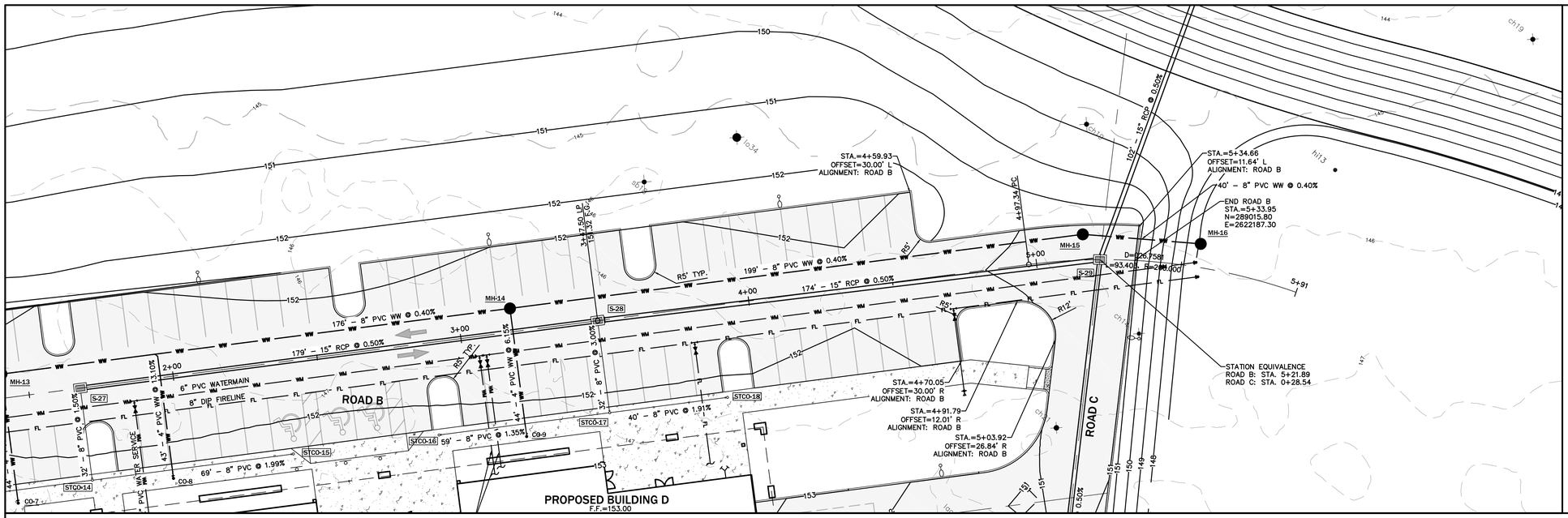
Project phase: CITY SUBMITTAL

Project title: SAN FELASCO TECH CITY PHASE 2 CITY OF ALACHUA, FLORIDA

Sheet title: ROAD B PLAN & PROFILE - 1

Designed: DJM
Drawn: JAB/MAB
Checked: SJR
Date: 03/26/19

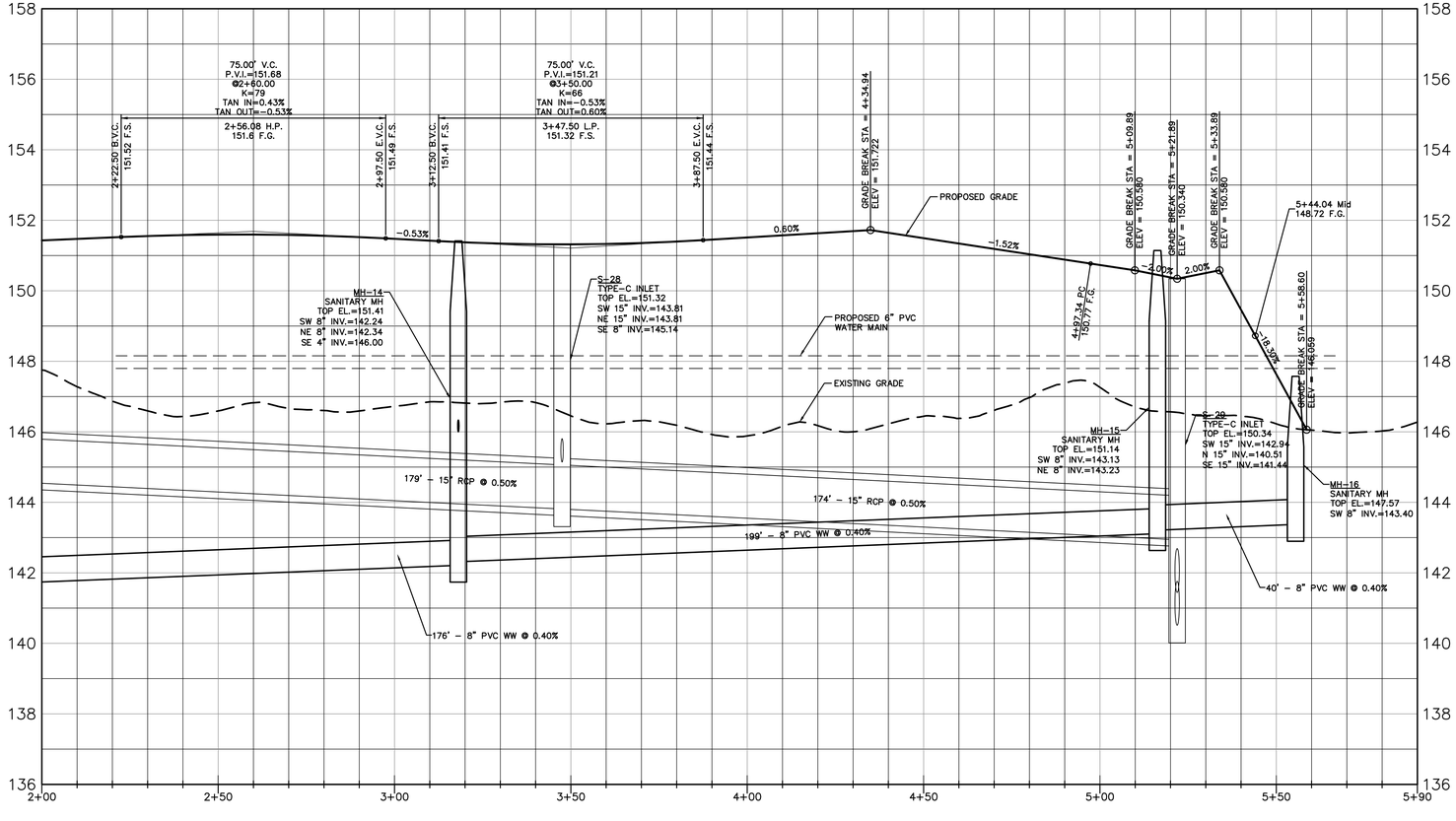
Sheet No.: C410



WASTEWATER CLEANOUT SCHEDULE	
CLEANOUT	CLEANOUT DATA
CO-7	TOP EL.=152.87 INV.=148.87
CO-8	TOP EL.=152.83 INV.=148.08
CO-9	TOP EL.=152.81 INV.=148.74

STORMWATER CLEANOUT SCHEDULE	
CLEANOUT	CLEANOUT DATA
STCO-13	TOP EL.=152.82 INV.=147.15
STCO-14	TOP EL.=152.79 INV.=145.76
STCO-15	TOP EL.=152.60 INV.=147.15
STCO-16	TOP EL.=152.74 INV.=146.90
STCO-17	TOP EL.=152.71 INV.=146.10
STCO-18	TOP EL.=152.69 INV.=146.88

ROAD B PROFILE



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VERTICAL: 1" = 2

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NORTH
SCALE: 1" = 20'
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GRAPHIC SCALE

No.	Date	Comment

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SERGIO J. REYES PROFESSIONAL ENGINEER LICENSED No. 47311 STATE OF FLORIDA
Sergio J. Reyes, P.E. 47311
Engineer Certificate No.

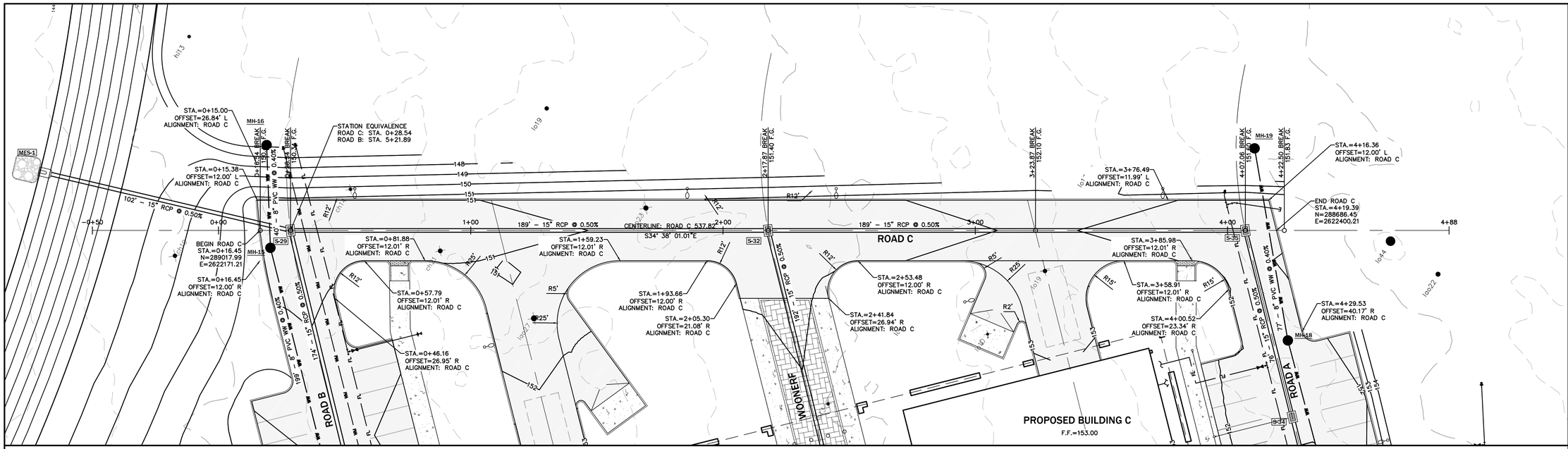
Project No: 18-162

Project phase: CITY SUBMITTAL

Project title:
SAN FELASCO TECH CITY PHASE 2
CITY OF ALACHUA, FLORIDA

Sheet title: ROAD B PLAN & PROFILE - 2

Designed: DJM	Sheet No.: C415
Drawn: JAB/MAB	
Checked: SJR	
Date: 03/26/19	



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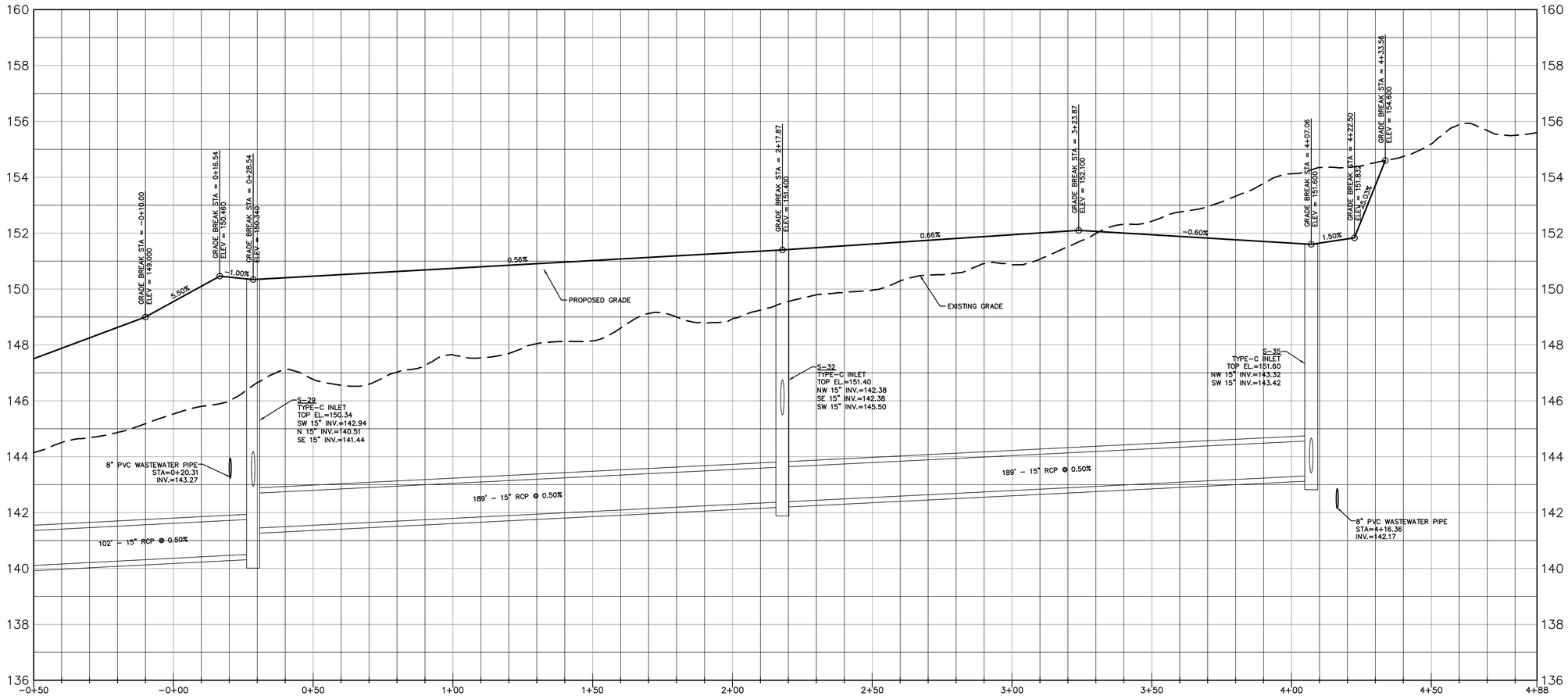

PROFILE SCALES:
HORIZONTAL: 1"= 20'
VERTICAL: 1" = 2'

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NORTH
SCALE: 1" = 20'
0 10 20 40
GRAPHIC SCALE

No.	Date	Comment

Professional Engineer of Record:
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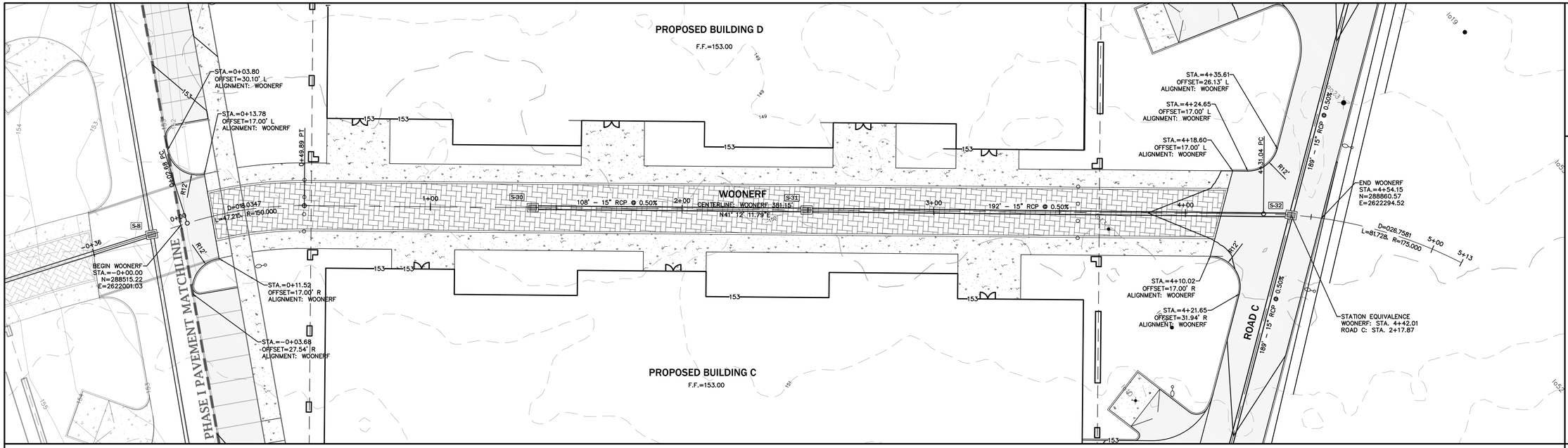
PROFESSIONAL ENGINEER
LICENSE
No. 47311
STATE OF
FLORIDA
Sergio J. Reyes, P.E. 47311
Engineer Certificate No.

Project No: 18-162
Project phase: CITY SUBMITTAL
Project title: SAN FELASCO TECH CITY PHASE 2 CITY OF ALACHUA, FLORIDA
Sheet title: ROAD C PLAN & PROFILE

Designed: DJM
Drawn: JAB/MAB
Checked: SJR
Date: 03/26/19
Sheet No.: C420



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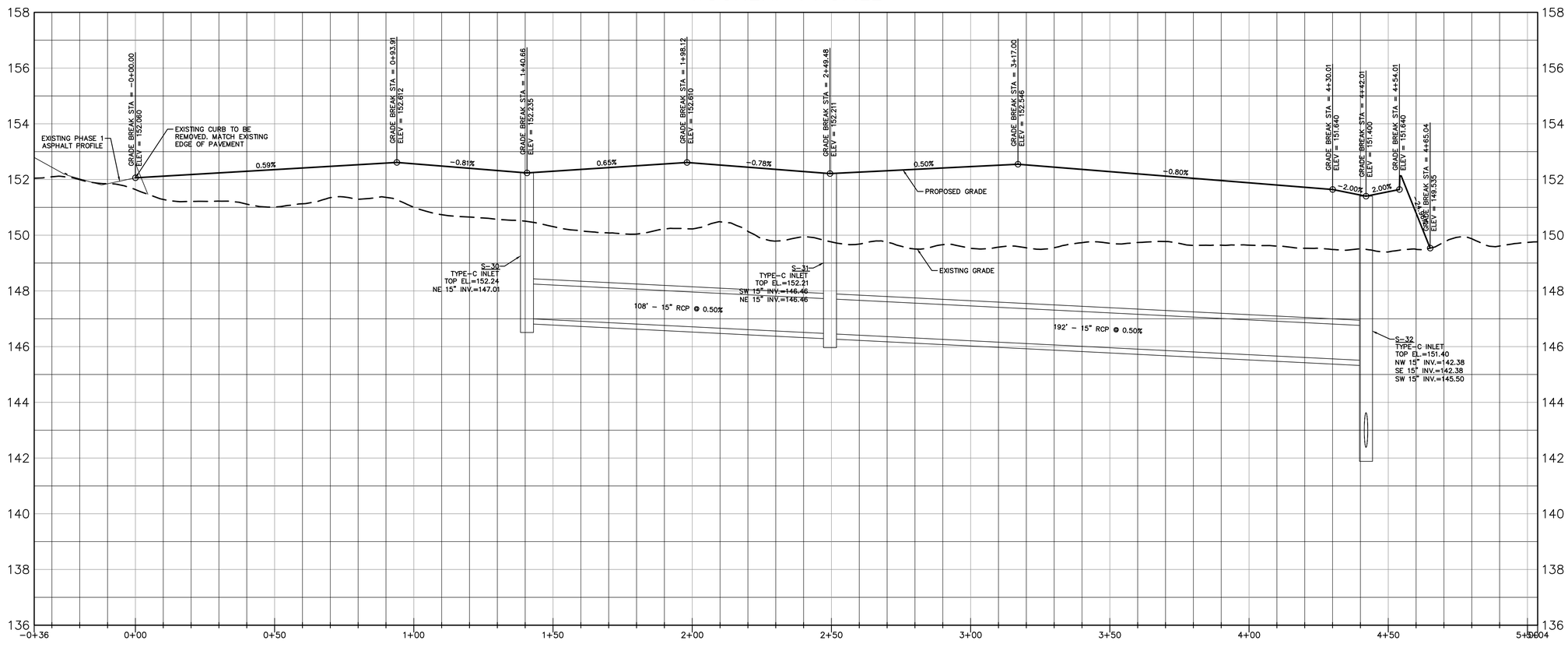

PROFILE SCALES:
HORIZONTAL: 1"= 20'
VERTICAL: 1" = 2'

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NORTH
SCALE: 1" = 20'
0 10 20 40
GRAPHIC SCALE

No.	Date	Comment

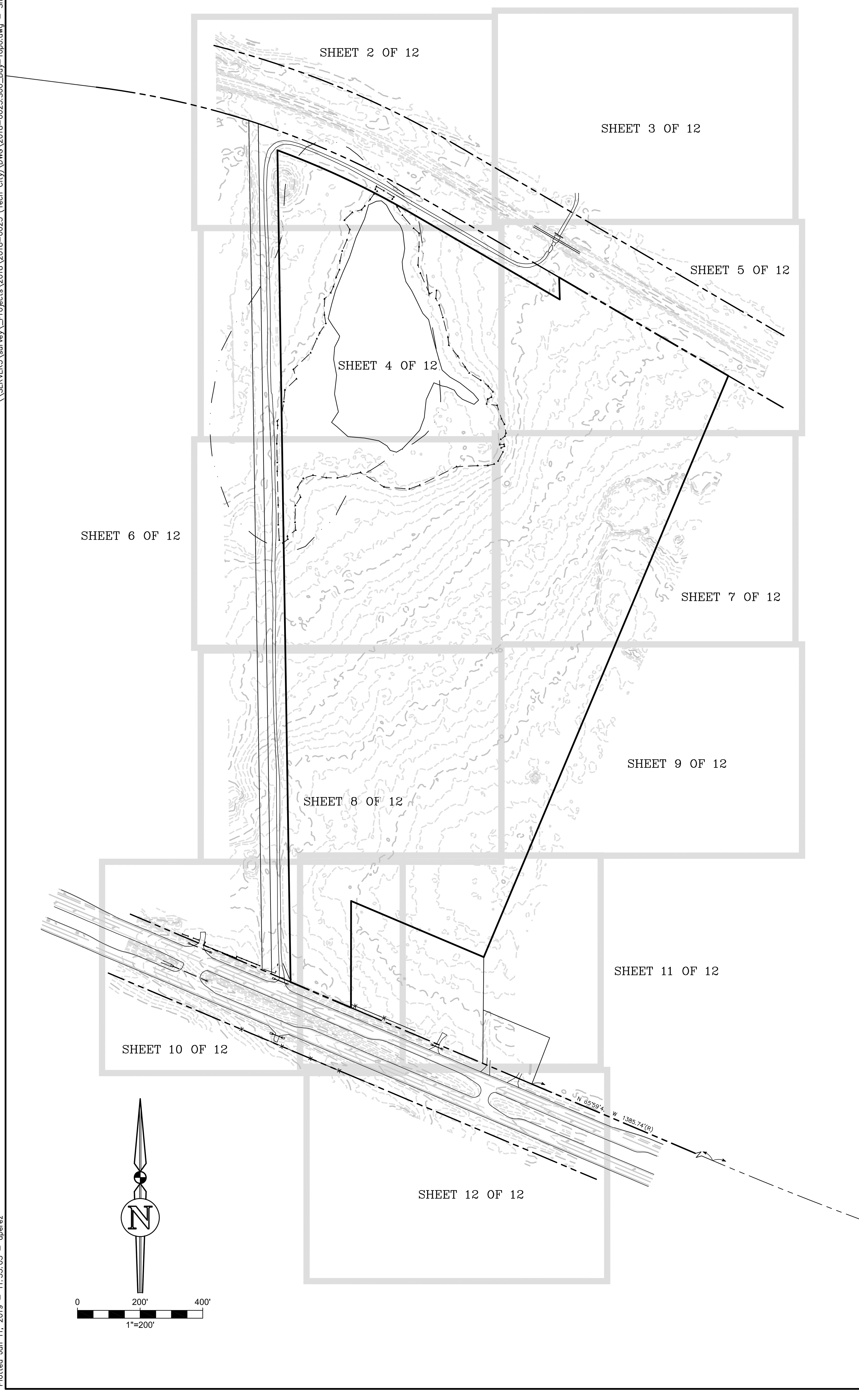
Professional Engineer of Record:
SERGIO J. REYES LICENSE No. 47311 STATE OF FLORIDA PROFESSIONAL ENGINEER
Sergio J. Reyes, P.E. 47311
Engineer Certificate No.

Project No: 18-162
Project phase: CITY SUBMITTAL
Project title: SAN FELASCO TECH CITY PHASE 2 CITY OF ALACHUA, FLORIDA
Sheet title: INTERNAL DRIVE PLAN & PROFILE

Designed: DJM
Drawn: JAB/MAB
Checked: SJR
Date: 03/26/19
Sheet No.: C430

BOUNDARY AND TOPOGRAPHIC SURVEY

IN
SECTION 20, TOWNSHIP 8 SOUTH, RANGE 19 EAST,
CITY OF ALACHUA, ALACHUA COUNTY, FLORIDA
FOR
MITCH GLAESER



LEGAL DESCRIPTION: (PER OFFICIAL RECORDS BOOK 3842, PAGE 1386)

A parcel of land located in Section 20, Township 8 South, Range 19 East, Alachua County, Florida and being more particularly described as follows:

Commence at a found iron pin marking the Southeast corner of Section 20, Township 8 South, Range 19 East, Alachua County, Florida; thence West a distance of 1313.40 feet to a point; thence North a distance of 218.99 feet to a found 3/4" iron pin marking a point on the North right-of-way line of U. S. Highway No. 441 (200 foot right-of-way); thence along said North right-of-way line; North 72 deg. 51 min. 49 sec. West a distance of 171.11 feet to a found 5/8 inch iron pin (Florida D.O.T.) marking the point of curvature of a curve concave to the Northeast, having a delta of 06 deg. 52 min. 05 sec., a radius of 11424.66 feet and a chord bearing North 69 deg. 24 min. 13 sec. West, 1368.62 feet; thence along the arc of said curve a distance of 1369.44 feet to a found 6" x 6" concrete monument (Florida D.O.T.); thence North 65 deg. 59 min. 42 sec. West a distance of 1385.74 feet to a found 5/8 inch rebar and cap (#3524); thence departing said North right-of-way line, North 22 deg. 09 min. 10 sec. East a distance of 158.44 feet to a found 5/8 inch rebar and cap (#3524); thence North 66 deg. 13 min. 12 sec. West a distance of 229.98 feet to a found 5/8 inch rebar and cap (#3524); thence North 01 deg. 33 min. 26 sec. East a distance of 169.02 feet to a found 4" x 4" concrete monument (PLS #940) marking the Point of Beginning; thence North 23 deg. 50 min. 23 sec. East a distance of 2014.63 feet to a set 5/8 inch rebar and cap (#3524) marking a point on the South right-of-way line of Seaboard Coast Line Railroad(200 foot right-of-way); thence along said South right-of-way line of Seaboard Coast Line Railroad, North 58 deg. 44 min. 53 sec. West a distance of 624.24 feet to a found 5/8 inch rebar and cap (#3524); thence departing said South right-of-way line, South 00 deg. 37 min. 49 sec. East a distance of 70.66 feet to a found 5/8 inch rebar and cap (#3524); thence North 58 deg. 44 min. 53 sec. West a distance of 547.93 feet to a found 5/8 inch rebar and cap (#3524) marking the point of curvature of a curve concave to the Southwest, having a delta of 10 deg. 00 min. 21 sec., a radius of 2712.57 feet and a chord bearing North 63 deg. 45 min. 03 sec. West, 473.11 feet; thence along the arc of said curve a distance of 473.71 feet to a found 5/8 inch rebar and cap (#3524); thence South 00 deg. 08 min. 45 sec. West a distance of 2657.79 feet to a found 5/8 inch rebar and cap (#3524) marking a point on said North right-of-way line of U. S. Highway No. 441; thence along said North right-of-way line, South 66 deg 00 min. 09 sec. East a distance of 209.40 feet to a found 4" x 4" concrete monument; thence departing said North right-of-way line, North 01 deg. 07 min. 22 sec. East a distance of 340.98 feet to a found 4" x 4" concrete monument; thence South 65 deg. 57 min. 03 sec. East a distance of 460.08 feet to the Point of Beginning.

Together with a perpetual, non-exclusive and unrestricted easement over, under and across the following two parcels of real property.

Easement Parcel #1

Commence at the Half Mile corner on the North line of Section 19, Township 8 South, Range 19 East, and run South 499.11 feet to the Southerly riqht-of-way line of the Seaboard Coastline Railroad; thence run, South 81 deg. 45' 10" East along said Southerly right-of-way line 2797.03 feet to the P.C. of a curve concave to the Southwest and having a radius at 2764.93 feet; thence run Southeasterly along said Southerly riqht-of-way line an arc distance of 498.99 feet to a concrete monument at the Northwest corner of General Electric Co. property, said point being the P.O.B.; thence continue Southeasterly along said right-of-way an arc distance of 31.68 feet and a chord bearing and distance of South 71 deg. 06' 52" East 31.68 feet; thence run South 00 deg. 08'45" West parallel with and 30 feet from the West line of said General Electric Co. property, 2718.20 feet to the Northerly right-of-way line of U.S. Highway No. 441 (State Road No. 25); thence run North 66 deg. 00' 06" West along said right-of-way line 32.8 feet to the southwest corner of said property, being a concrete monument; thence run North 00 deg. 08' 45" East along the West line of said property 2715.11 feet to the P.O.B., being and lying in Section 20, Township 8 South, Range 19 East, Alachua county, Florida.

Easement Parcel #2

Commence at the Half Mile corner on the North line of Section 19, Township 8 South, Range 19 East and run South 499.11 feet to the Southerly right-of-way line of the Seaboard Coastline Railroad; thence run South 81 deg. 45' 10" East along said Southerly right-of-way line 2797.03 feet to the P.C. of a curve concave to the Southwest and having a radius of 2764.93 feet; thence run Southeasterly along said Southerly right-of-way line an arc distance of 498.99 feet to a concrete monument at the Northwest corner of General Electric Co. property; thence continue Southeasterly along said Southerly right-of-way line an arc distance of 31.68 feet and a chord bearing and distance of South 71 deg. 06' 52" East 31.68 feet to the P.O.B.; thence continue Southeasterly along said Southerly right-of-way line an arc distance of 582.25 feet and a chord bearing and distance of South 64 deg. 45' 10" East 581.17 feet to the P.T. of said curve; thence continue along said right-of-way line South 58 deg. 43' 12" East 510.61 feet; thence run South 00 deg. 37' 54" East 70.68 feet; thence run North 58 deg. 43' 12" West parallel with and 60 feet from the Southerly right-of-way line of said railroad, 547.97 feet to the P.C. of a curve concave to the Southwest and having a radius of 2704.93 feet; thence run Northwesterly along said curve an arc distance of 484.91 feet and a chord bearing and distance of North 63 deg. 51' 21" West 484.26 feet; thence run South 00 deg. 08' 45" West parallel with and 90 feet East of the West line of said G. E. property 2659.10 feet to the North right-of-way line of U.S. Highway No. 441 (State Road No. 25); thence run North 66 deg. 00' 06" West along said right-of-way line 65.6 feet; thence run North 00 deg. 08' 45" East 2718.2 feet to the P.O.B. Being and lying in Section 20, Township 8 South, Range 19 East, Alachua County, Florida.

TREE LEGEND:

ONLY TREES WITH A DIAMETER 10" AND GREATER WERE LOCATED FOR THIS SURVEY. (DIAMETER MEASURED 4.5' ABOVE GRADE)

LOCATION / SPECIES / DIAMETER AT 4.5' ABOVE GRADE

Code		SIZE/COMMON NAME *Genus species*
ce23	=	23" SOUTHERN REDCEDAR *Juniperus silicicola*
ch25	=	25" BLACK CHERRY *Prunus serotina*
lao17	=	17" LAUREL OAK *Quercus hemisphaerica*
lo15	=	15" LIVE OAK *Quercus virginiana*
pa12	=	12" PALM *Sabal palmetto*
pi16	=	16" PINE *Pinus sp.*
tree12	=	12" UNIDENTIFIED TREE
wo12	=	12" WATER OAK *Quercus nigra*
mma12	=	12" MIMOSA *Albizia julibrissin*
sb12	=	12" SUGARBERRY *Celtis laevigata*
sg16	=	16" SWEETGUM *Liquidambar straciflua*

NOTES:

1) THE ELEVATIONS SHOWN HEREON ARE NAVD 1988 DATUM. ELEVATIONS SHOWN HEREON WERE BASED ON AN ELEVATION OF 157.834 FEET (NGVD 1929 DATUM) ON FLORIDA DEPARTMENT OF TRANSPORTATION BENCHMARK "BM4", BEING A CONCRETE MONUMENT WITH BRASS DISK STAMPED "2602006 BM-26-97-A-0" AT THE APPROXIMATE SOUTH RIGHT-OF-WAY LINE OF US 441 AND +/- 1,200 SOUTHEAST OF THE CENTERLINE OF SW 89TH ST. FOR THE PURPOSES OF THIS SURVEY, THIS ELEVATION WAS CONVERTED TO 157.04 FEET (NAVD 1988 DATUM) WITH CORPSCON v6.0.1, U.S. ARMY CORPS OF ENGINEERS.

2) BEARINGS AS SHOWN HEREON ARE BASED ON STATE PLANE COORDINATES (NORTH AMERICAN DATUM OF 1983, FLORIDA NORTH ZONE) WITH A MEASURED BEARING OF SOUTH 67°01'06" EAST ON THE NORTH RIGHT OF WAY LINE OF STATE ROAD No.s 20 & 25, U.S. HIGHWAY No. 441.

3) ONLY TREES 10" IN DIAMETER AND GREATER WERE LOCATED AS A PART OF THIS SURVEY. THE SCIENTIFIC NAMES SHOWN HEREON ARE TO THE BEST ABILITY OF THIS SURVEYOR, BUT THIS SURVEYOR DOES NOT PURPORT TO BE A CERTIFIED ARBORIST. THE LOCATION OF THE TREES SHOWN HEREON IS THE APPROXIMATE CENTER OF THE TREE AT GROUND LEVEL AND THE DIAMETER WAS MEASURED AT BREAST HEIGHT - THE EXTENT OF THE TREE CANOPY OR ROOT SYSTEM WAS NOT DETERMINED BY THIS SURVEYOR. IF THE LOCATION OF TREES IN RELATION TO NEARBY PROPERTY LINES IS CRITICAL A MORE DETAILED SURVEY MAY BE REQUIRED.

4) THIS SURVEY CONSISTS OF 12 SHEETS AND IS NOT VALID WITHOUT ALL SHEETS.

5) NO SEARCH OF THE PUBLIC RECORDS WAS MADE BY THE SURVEYOR, THEREFORE, THERE MAY BE RESTRICTIONS OTHER THAN THOSE SHOWN HEREON WHICH MAY BE FOUND IN THE PUBLIC RECORDS OF ALACHUA COUNTY, FLORIDA. EASEMENTS AND BUILDING SETBACK REQUIREMENTS, OTHER THAN THOSE SHOWN, WERE NOT PROVIDED TO THIS SURVEYOR.

6) THE WETLAND FLAGS SHOWN HEREON WERE PLACED BY PETE WALLACE OF ECOSYSTEM RESEARCH CORPORATION (386-462-5005) ON OR AROUND FEBRUARY 10, 2018. THIS SURVEYOR IS NOT A WETLANDS DELINEATOR.

7) PARCELS 1 AND 2 SHOWN HEREON WERE DEDICATED BY EASEMENT AND ROADWAY AGREEMENT RECORDED IN O.R. 1558, PAGE 1383 AND ACKNOWLEDGED BY AGREEMENTS RECORDED IN O.R. 4290, PAGE 2224, O.R. 4290, PAGE 2229, AND O.R. 4290, PAGE 2234 ALL OF THE PUBLIC RECORDS OF ALACHUA COUNTY, FLORIDA.

8) ONLY TREES IN THE HATCHED AREAS SHOWN HEREON WERE LOCATED AT THE TIME OF THIS SURVEY. TREES SOUTH OF THE SURVEY LIMITS WERE NOT VERIFIED AND MAY HAVE BEEN REMOVED AS THERE WAS CONSTRUCTION UNDER WAY AT THE TIME OF SURVEY.

9) BOUNDARY AND/OR TOPOGRAPHIC INFORMATION WAS NOT UPDATED AT THE TIME OF THIS SURVEY.

UTILITY LOCATION NOTE:

THE LOCATIONS OF UNDERGROUND UTILITIES SHOWN WERE BASED ON ABOVE GROUND FIXTURES, UTILITY COMPANY MAPS AVAILABLE TO THE SURVEYOR, AND ELECTRONIC DETECTION METHODS. UNLESS NOTED OTHERWISE ON THE GRAPHIC PORTION OF THIS SURVEY, NO UTILITIES WERE UNCOVERED TO VERIFY THEIR LOCATION.

NO GUARANTEE IS EITHER EXPRESSED OR IMPLIED BY THE SURVEYOR THAT THE LOCATIONS SHOWN REPRESENT THE ACTUAL LOCATIONS OF THOSE UTILITIES, THE UTILITY TYPE, OR THAT NO OTHER UTILITIES EXIST ON THE SITE.

PRIOR TO THE DESIGN OF UTILITY CONNECTIONS, THE PROPOSED CONNECTION POINTS SHOULD BE EXCAVATED AS NECESSARY TO CONFIRM THEIR EXACT LOCATION, DEPTH AND CHARACTERISTICS.

IN ACCORDANCE WITH FLORIDA STATUTE CHAPTER 556, PRIOR TO ANY EXCAVATION, THE EXCAVATOR SHALL CONTACT SUNSHINE STATE ONE CALL OF FLORIDA AT 1-800-432-4770.

LEGEND OF SYMBOLS & ABBREVIATIONS:

Symbol		Meaning
cmp	=	CORRUGATED METAL PIPE
CONC	=	CONCRETE
D	=	DELTA (CENTRAL) ANGLE
R	=	RADIUS
A	=	ARC
T	=	TANGENT
CB	=	CHORD BEARING
CD	=	CHORD DISTANCE
DIP	=	DUCTILE IRON PIPE
EJB	=	ELECTRICAL JUNCTION BOX
ELEV	=	ELEVATION
F.D.O.T.	=	FLORIDA DEPARTMENT OF TRANSPORTATION
FOCJB	=	FIBER OPTIC CABLE JUNCTION BOX
ID.	=	IDENTIFICATION
inv	=	INVERT
(M)	=	MEASURED DIMENSION
(R)	=	RECORD DIMENSION
M.E.S.	=	MITERED END SECTION
No.	=	NUMBER
O.R.	=	OFFICIAL RECORDS BOOK
PGS.	=	PAGES
PVC	=	POLY-VINYL CHLORIDE
RCP	=	REINFORCED CONCRETE PIPE
R/W	=	RIGHT OF WAY
SECTION 20-8-19	=	SECTION 20, TOWNSHIP 8 SOUTH, RANGE 19 EAST
ANCH ←	=	GUY ANCHOR
◊ FOCMRK	=	FIBER OPTIC CABLE MARKER
■	=	FOUND CONCRETE MONUMENT (size, ID)
●	=	FOUND REBAR & CAP (size, ID)
◊ MBOX	=	MAIL BOX
○ PP	=	POWER POLE
◊ REFL	=	REFLECTOR
(sign symbol)	=	SIGN
○ TP	=	TELEPHONE POLE
T TELPED	=	TELEPHONE PEDESTAL
◊ TELMRK	=	TELEPHONE LINE MARKER
T CTVPED	=	CABLE TELEVISION PEDESTAL
△ WF(ID)	=	WETLANDS FLAG (ID)
80	=	ELEVATION CONTOUR LINE
—x—x—	=	FENCE LINE
—OHPL—	=	OVERHEAD POWER LINE
—OHTL—	=	OVERHEAD TELEPHONE LINE
— — FOC — —	=	FIBER OPTIC CABLE LINE
— — FM — —	=	SANITARY SEWER FORCE MAIN
— — UGE — —	=	UNDERGROUND ELECTRIC LINE
— — GAS — —	=	UNDERGROUND GAS LINE
— — UGT — —	=	UNDERGROUND TELEPHONE LINE
— — UGTV — —	=	UNDERGROUND CABLE TELEVISION LINE
— — RWL — —	=	UNDERGROUND RECLAIMED WATER LINE
— — WL — —	=	UNDERGROUND WATER LINE
(6" PVC)	=	SIZE AND/OR MATERIAL AS PROVIDED BY UTILITY COMPANY
88.95 ×	=	SPOT ELEVATION
(shaded box)	=	APPROXIMATE LIMITS OF TREE LOCATIONS FOR THIS SURVEY

FLOOD INSURANCE RATE MAP STATEMENT

THE REAL PROPERTY SHOWN HEREON LIES WITHIN ZONE(s) A & X (UNSHADED) AS DESIGNATED ON THE FLOOD INSURANCE RATE MAP NUMBER 12001C0140D & 12001C0145D; COMMUNITY NUMBER: 120664; PANEL: 0140D 0145D; EFFECTIVE DATE: 06/16/06. SAID MAP DESCRIBES ZONE(s) 'A' AS BEING "SPECIAL FLOOD HAZARD AREAS (SFHAs) SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD, NO BASE FLOOD ELEVATIONS DETERMINED" AND ZONE 'X' (UNSHADED) AS BEING "AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN."

No.	Date	Comment
4	01/11/19	ADDED TREES FOR NORTHERN PORTION
3	08/29/18	ADDED CERTIFICATION
2	06/20/18	REVISED LEGAL DESCRIPTION
1	06/11/18	REVISED BOUNDARY DIMENSIONS/ ADDED CERTIFICATIONS

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Corporate Authorization No. LB 2389
BY: ALEJANDRO PEREZ P.S.M. 6839

Project No.	Drawn	Check
2018-0023 S00	AL/AP	A.P.

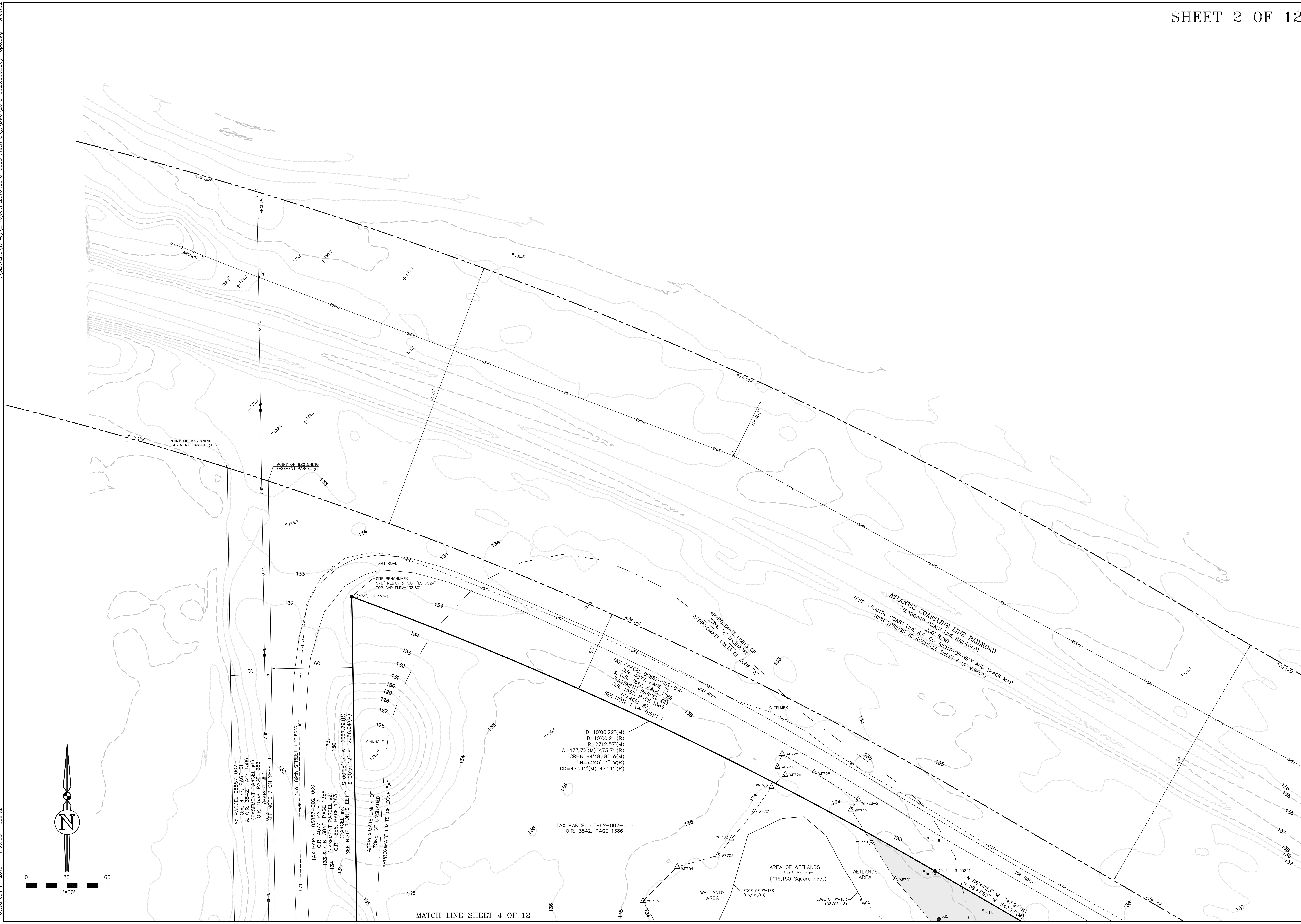
Fieldbook	Page	Survey Date	Drawing Completed	Revised
978	4-34 72-79	04/19/18	04/20/18	01/11/19

PREPARED FOR: 1) THE LASER INVESTMENT GROUP, LLC.
2) OLD REPUBLIC NATIONAL TITLE INSURANCE COMPANY
3) JAMES F. GRAY, P.A.
4) FLORIDA CREDIT UNION

THIS SURVEY MEETS THE STANDARDS OF PRACTICE AS SET FORTH BY THE FLORIDA BOARD OF PROFESSIONAL SURVEYORS AND MAPPERS IN CHAPTER 5J-17, FLORIDA ADMINISTRATIVE CODE, PURSUANT TO SECTION 472.027 (2017), FLORIDA STATUTES. THIS SURVEY DEPICTS THE SITE CONDITIONS AS OF 01/10/19

Sheet No.: V-001

\\SERVER3\survey_Projects\2018\2018-0023 (Tech City)\DWG\2018-0023.S00_Bdy-Topo.dwg - Sheet01
Plotted Jan 11, 2019 - 11:33:03 - aperez



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SEE SHEET 1 OF 12 FOR ORIGINAL SIGNATURE AND RAISED SEAL

Fieldbook	Page	Survey Date	Drawing Completed	Revised
978	4-34 72-79	04/19/18	04/20/18	01/11/19

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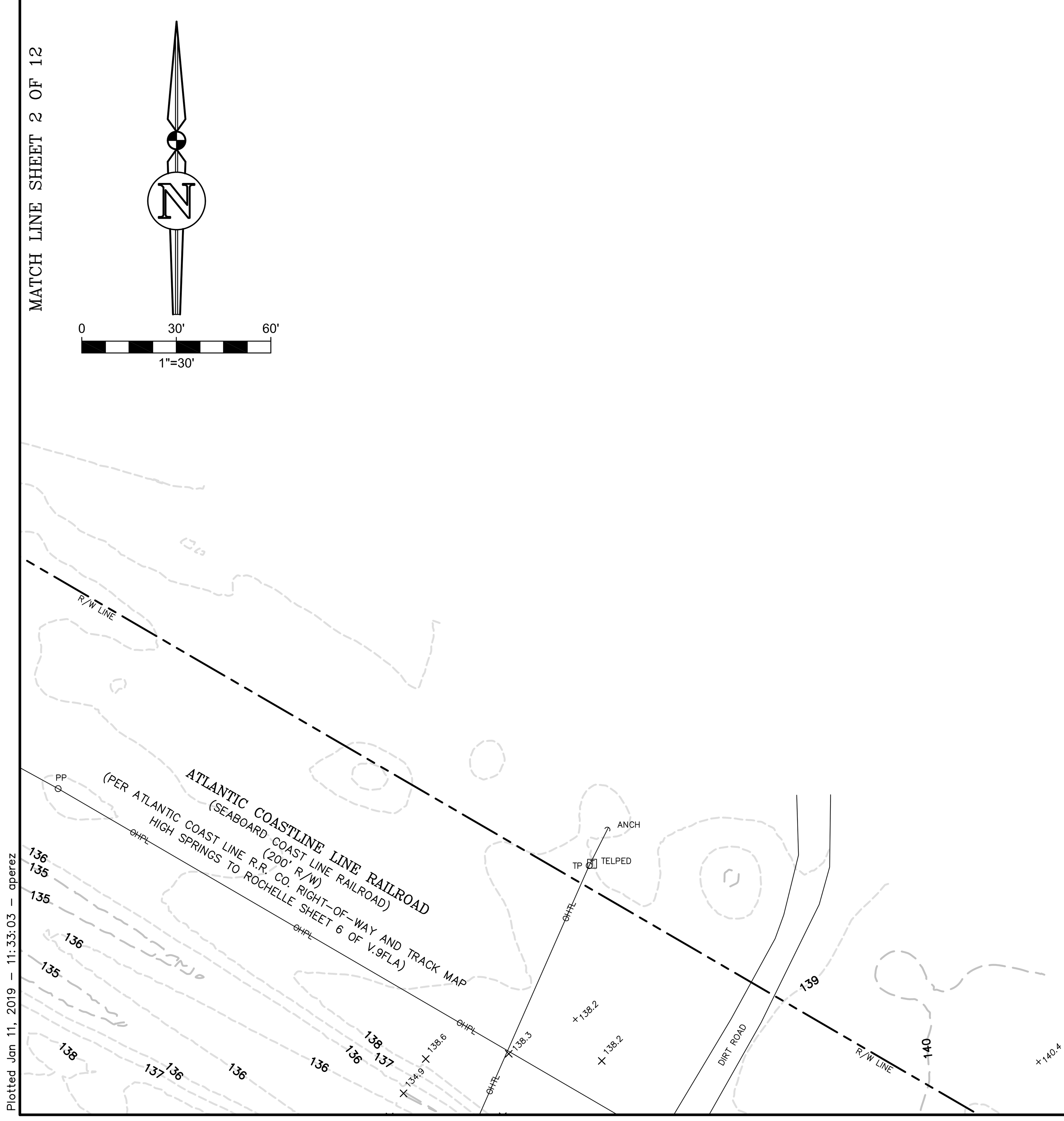
Sheet No.: V-002

MATCH LINE SHEET 2 OF 12



MATCH LINE SHEET 5 OF 12

No.	Date	Comment
4	01/11/19	ADDED TREES FOR NORTHERN PORTION
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2	06/20/18	REVISED LEGAL DESCRIPTION
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Check	A.P.

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BY: ALEJANDRO PEREZ P.S.M. 6839
SEE SHEET 1 OF 12 FOR ORIGINAL SIGNATURE AND RAISED SEAL

NOT VALID WITHOUT THE ORIGINAL SIGNATURE AND THE RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER.

978	4-34 72-79	04/19/18	04/20/18	01/11/19
Fieldbook	Page	Survey Date	Drawing Completed	Revised

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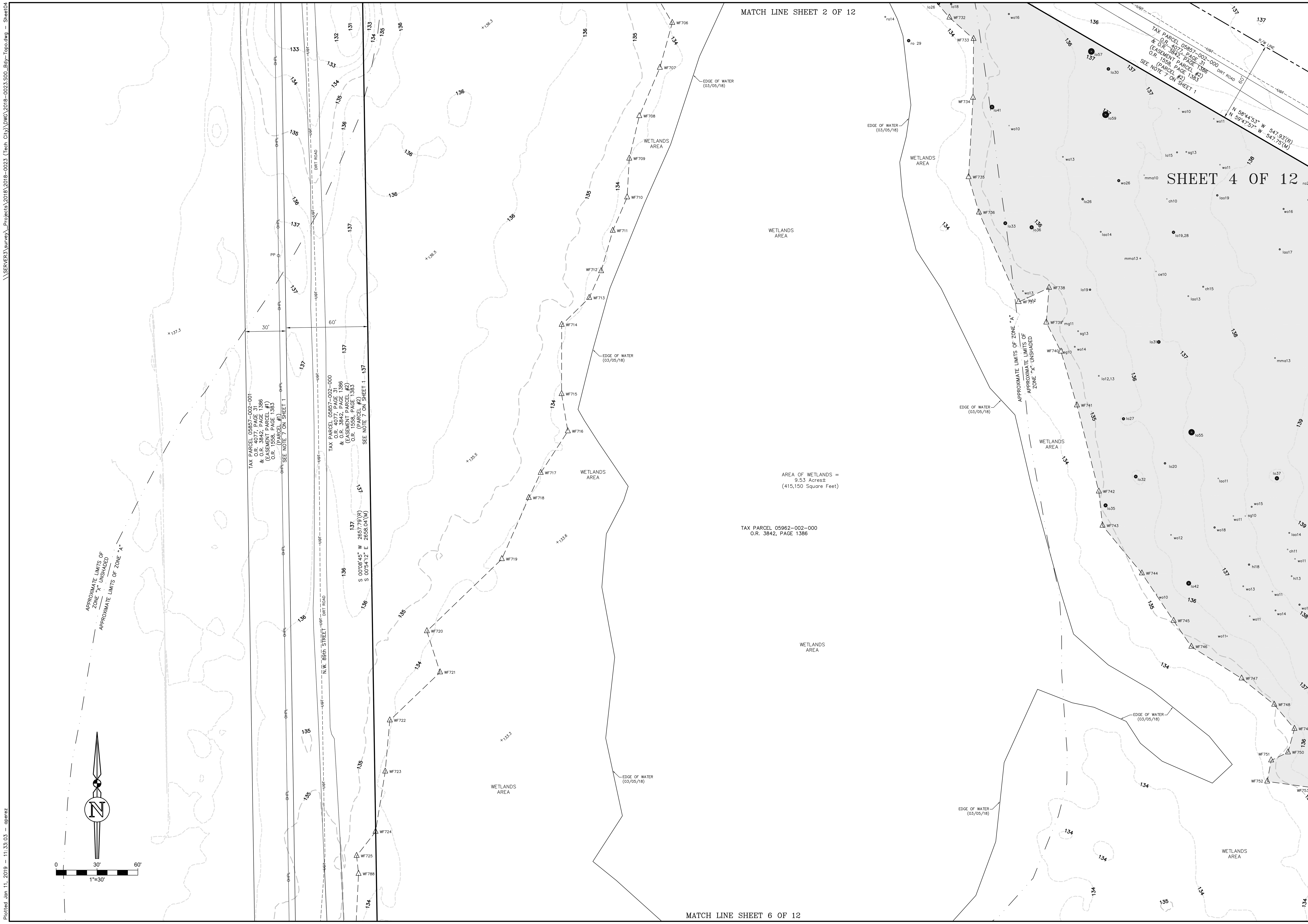
Sheet No.: V-003

\\SERVER3\survey_Projects\2018\2018-0023 (Tech City)\DWG\2018-0023.S00_Bdy-Topo.dwg - Sheet04



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Project No. 2018-0023 S00	eda engineers-surveyors-planners, inc. Corporate Authorization No. LB 2389
Drawn AL/AP	BY: ALEJANDRO PEREZ P.S.M. 6839
Check A.P.	SEE SHEET 1 OF 12 FOR ORIGINAL SIGNATURE AND RAISED SEAL

NOT VALID WITHOUT THE ORIGINAL SIGNATURE AND THE RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER.

Fieldbook	Page	Survey Date	Drawing Completed	Revised
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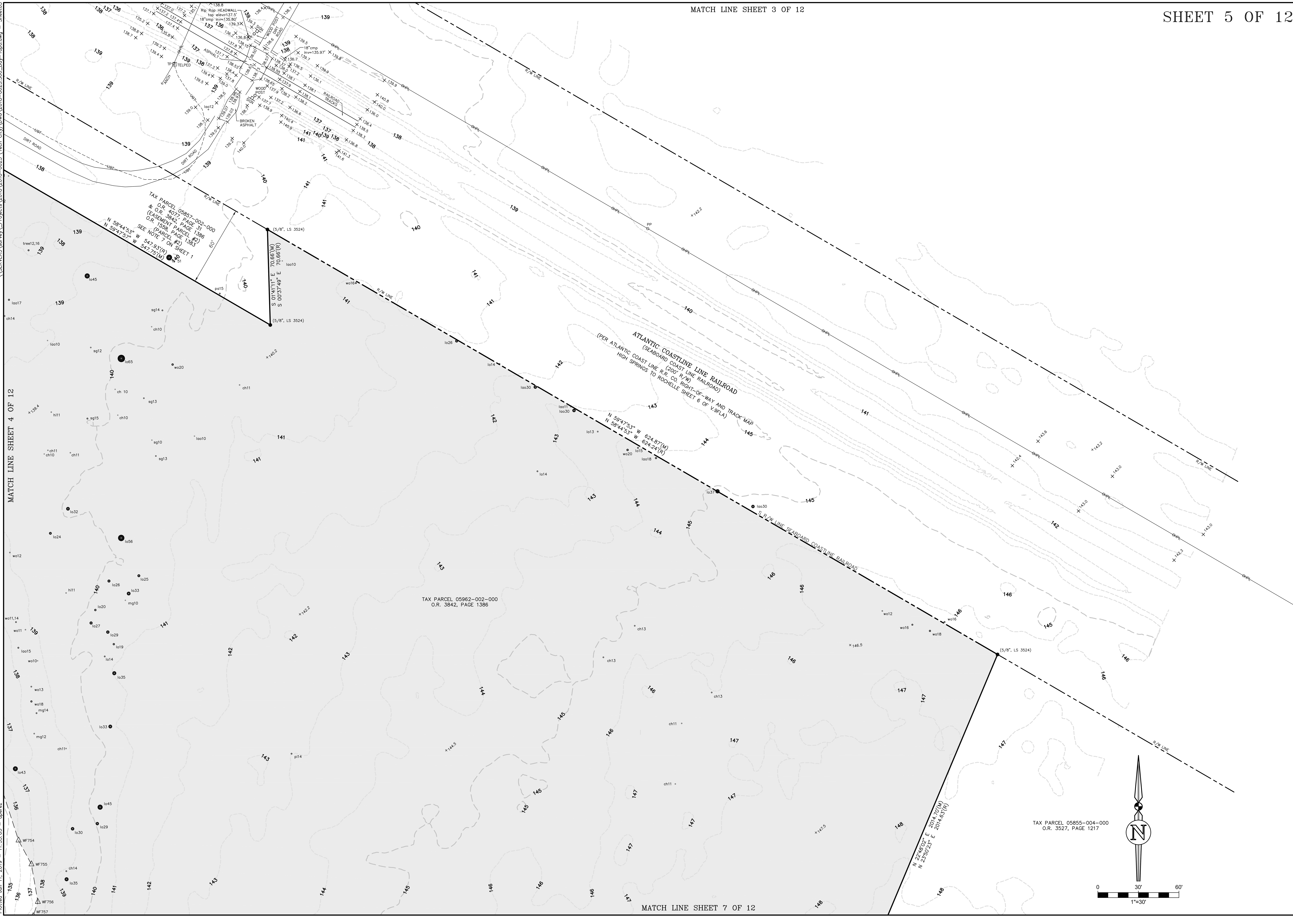
Sheet No.:

V-004



FLOOD INSURANCE RATE MAP STATEMENT

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No.	Date	Comment
4	01/11/19	ADDED TREES FOR NORTHERN PORTION
3	08/29/18	ADDED CERTIFICATION
2	06/20/18	REVISED LEGAL DESCRIPTION
1	06/11/18	REVISED BOUNDARY DIMENSIONS/ ADDED CERTIFICATIONS

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Corporate Authorization No. LB 2389
BY: ALEJANDRO PEREZ P.S.M. 6839
SEE SHEET 1 OF 12 FOR ORIGINAL SIGNATURE AND RAISED SEAL

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Fieldbook	Page	Survey Date	Drawing Completed	Revised
978	4-34 72-79	04/19/18	04/20/18	01/11/19

PREPARED FOR:
1) THE LASER INVESTMENT GROUP, LLC.
2) OLD REPUBLIC NATIONAL TITLE INSURANCE COMPANY
3) JAMES F. GRAY, P.A.
4) FLORIDA CREDIT UNION

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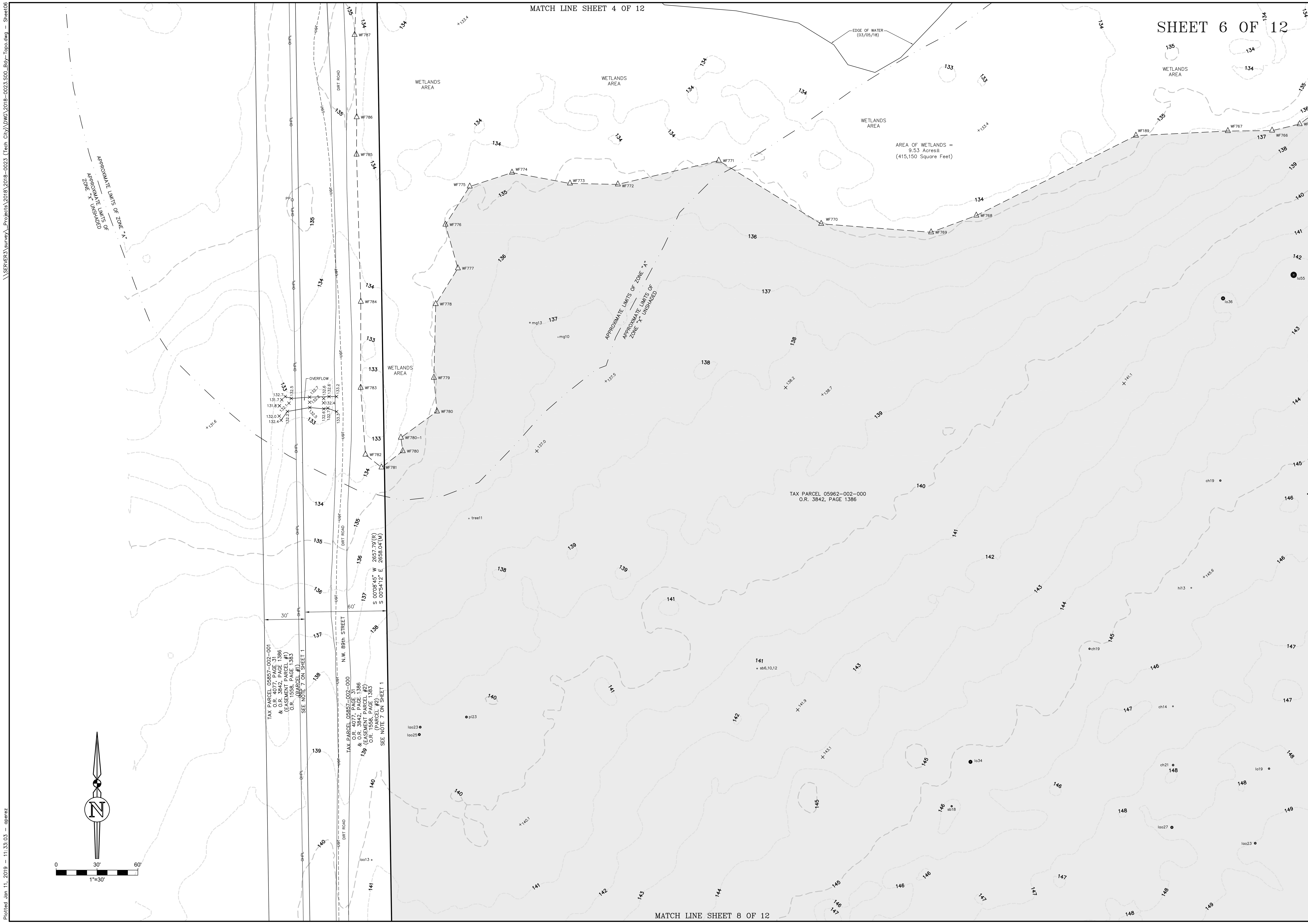
Sheet No.: V-005



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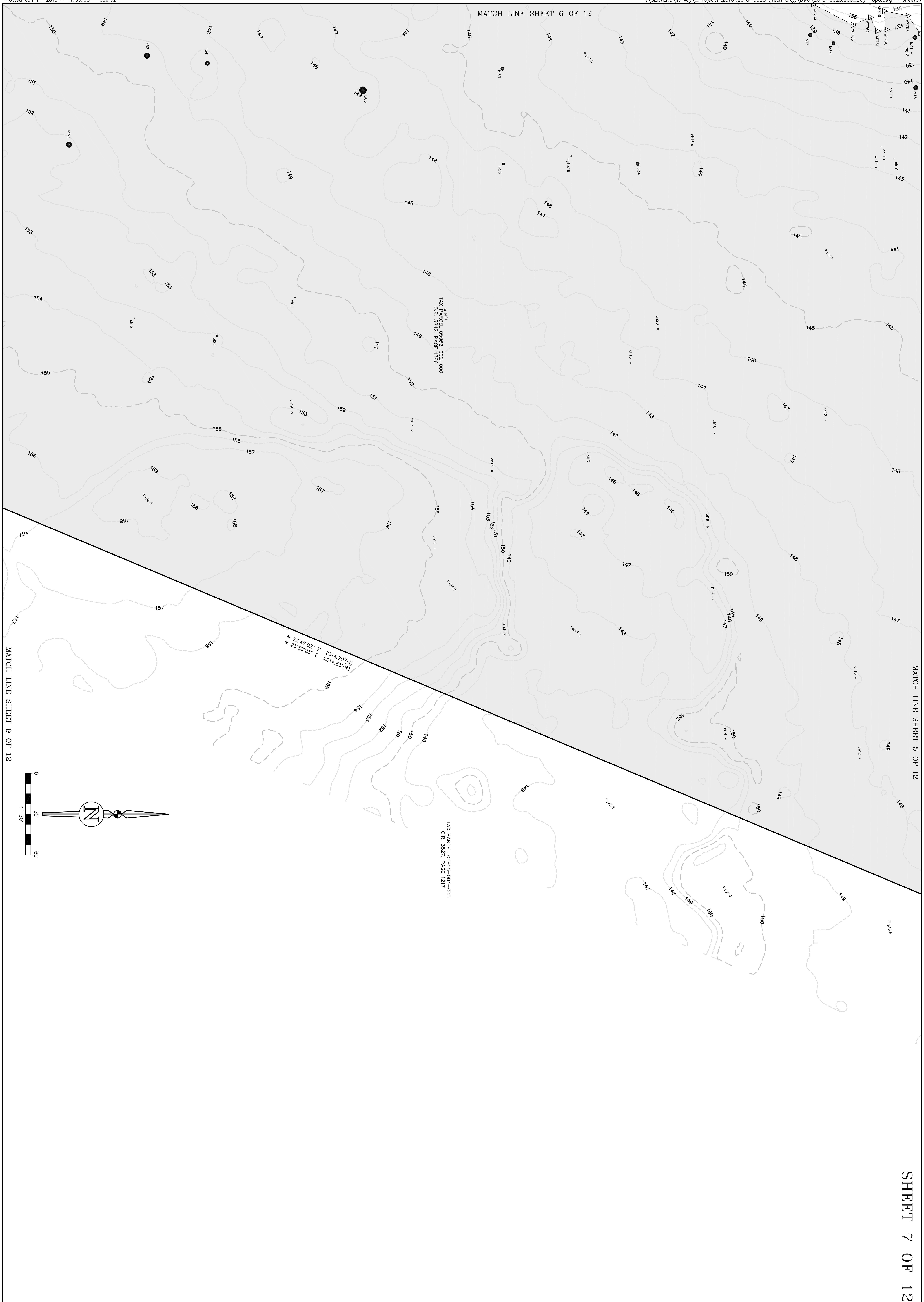
Sheet No.: V-006



SHEET 7 OF 12

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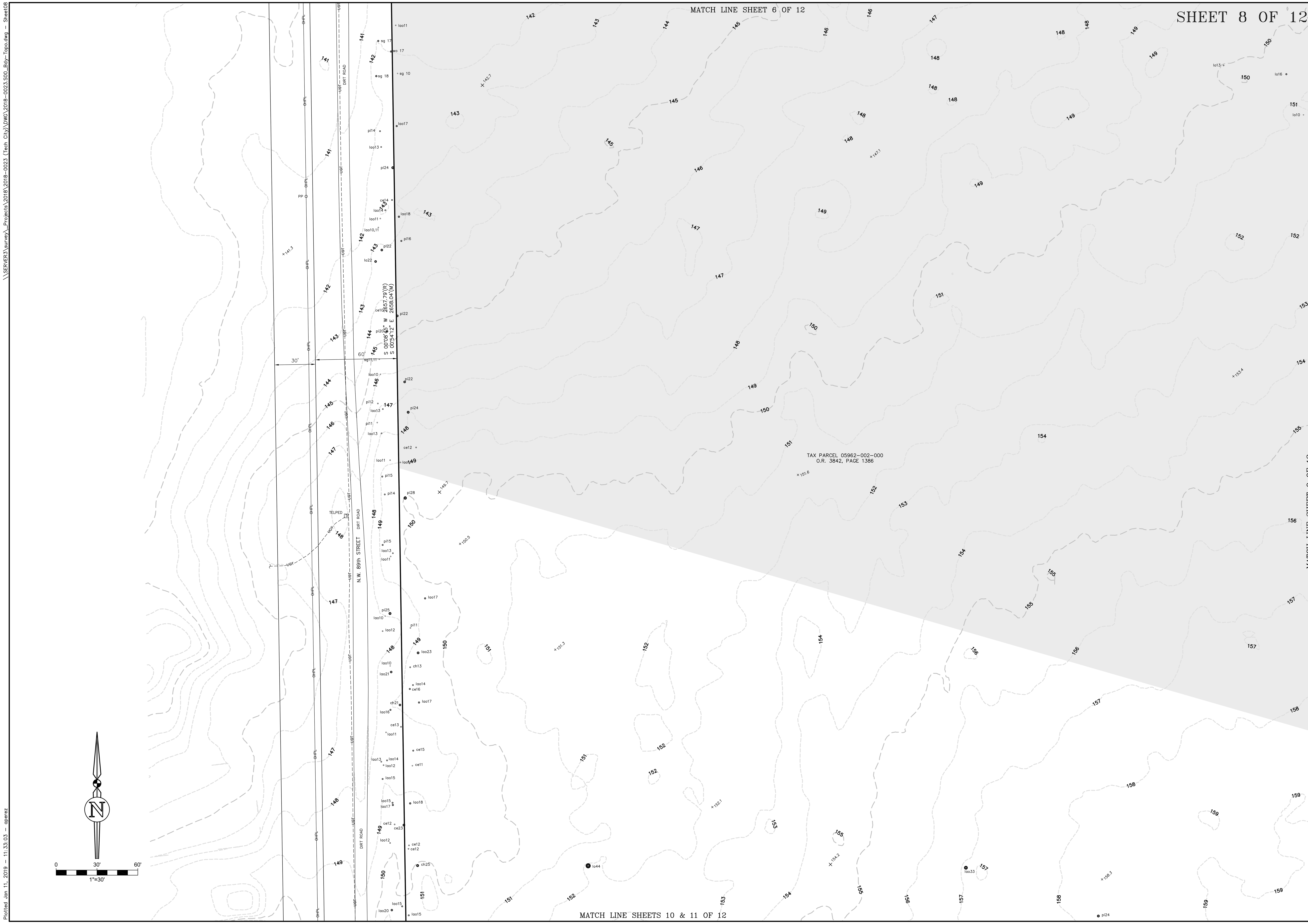
Sheet No.: V-007



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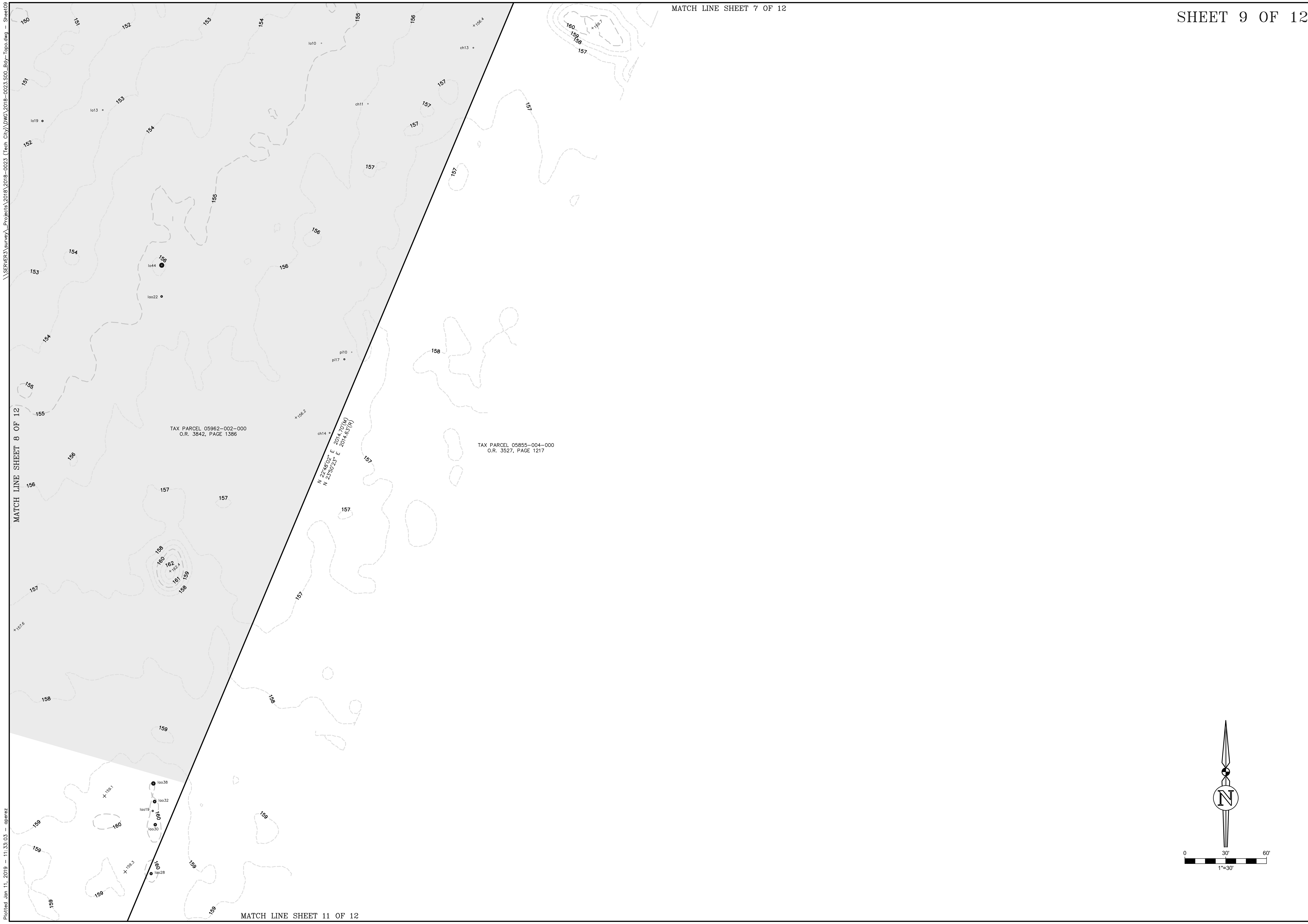
Sheet No.:
V-008



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