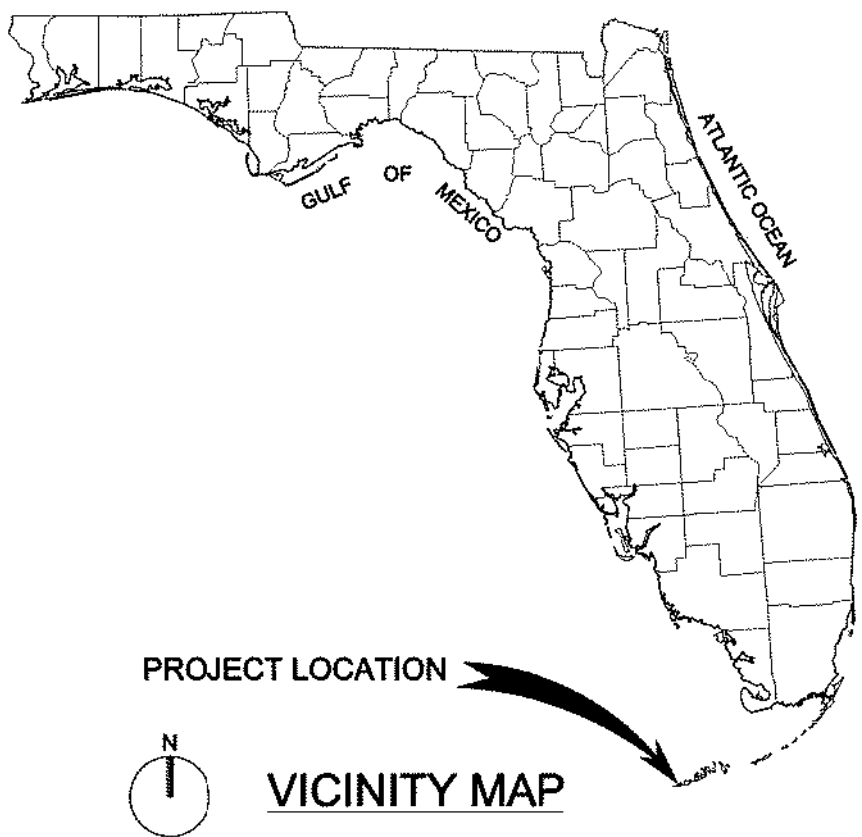


CITY OF KEY WEST
DENNIS STREET STORMWATER
PUMP STATION

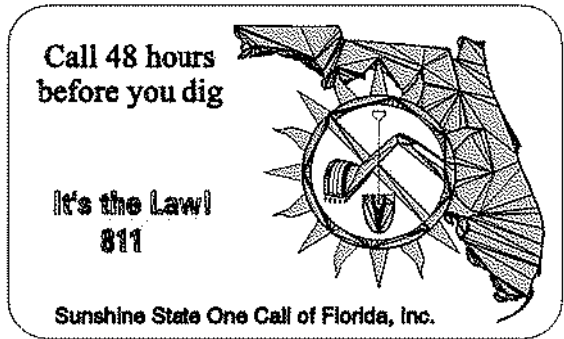
CITY OF KEY WEST PROJECT NO.: 193108
CITY OF KEY WEST ITB NO.:

MARCH 2019



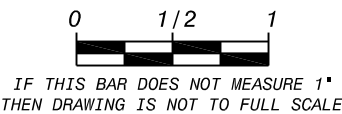
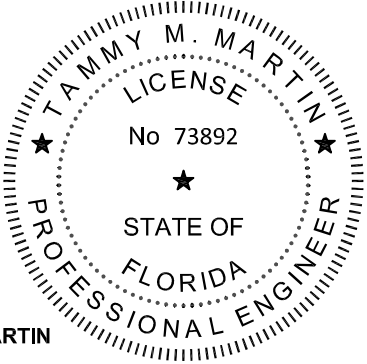
DRAWING INDEX

1	-----	COVER SHEET, DRAWING INDEX, AND VICINITY MAP
GENERAL		
2	G-001	NOTES, LEGENDS, ABBREVIATIONS, AND LOCATION MAP
CIVIL		
3	C-101	OVERALL SITE PLAN
4	C-102	MANHOLE INSTALLATION PLAN AND PROFILE
5	C-103	PLAN AND PROFILE 1 OF 2
6	C-104	PLAN AND PROFILE 2 OF 2
7	C-105	EXISTING OUTFALL STRUCTURE PLAN, SECTIONS AND DETAILS
8	C-106	EXISTING CATCH BASIN CONNECTION & BAFFLE BOX ENLARGED PLAN AND SECTION
9	C-107	STORM WATER POLLUTION PREVENTION PLAN
10	C-501	STANDARD DETAILS 1 OF 2
11	C-502	STANDARD DETAILS 2 OF 2
STRUCTURAL		
12	S-001	GENERAL NOTES
13	S-101	PUMP STATION PLANS
14	S-102	GENERATOR PLATFORM PLANS
15	S-301	PUMP STATION SECTIONS AND DETAILS
16	S-302	GENERATOR PLATFORM SECTIONS AND DETAILS
17	S-501	STANDARD CONCRETE REINFORCEMENT DETAILS
18	S-502	STANDARD CONCRETE JOINT DETAILS
19	S-503	STANDARD ALUMINUM GRATING STAIR DETAILS
20	S-504	STANDARD 2 RAIL IBC GUARDRAIL DETAILS
MECHANICAL		
21	M-001	ABBREVIATIONS & GENERAL NOTES
22	M-002	LEGENDS
23	M-101	PUMP STATION PLANS AND SECTIONS
24	M-102	GENERATOR PLATFORM PLAN AND SECTIONS
25	M-501	DETAILS 1 OF 2
26	M-502	DETAILS 2 OF 2
ELECTRICAL		
27	E-001	LEGENDS
28	E-002	ABBREVIATIONS AND NOTES
29	E-101	SITE PLAN
30	E-102	ENLARGED SITE PLAN
31	E-103	POWER & GROUNDING PLAN
32	E-501	SCHEMATIC AND DETAILS
33	E-801	RISER DIAGRAM
INSTRUMENTATION		
34	I-001	LEGEND AND ABBREVIATIONS 1 OF 3
35	I-002	LEGEND AND ABBREVIATIONS 2 OF 3
36	I-003	LEGEND AND ABBREVIATIONS 3 OF 3
37	I-101	P&ID - PUMP STATION
38	I-102	ENGINE GENERATOR
39	I-501	INSTALLATION DETAILS



Black & Veatch Corporation
2855 N. University Drive, Suite 210
Coral Springs, FL 33065 Certificate No. 8132

ISSUED FOR CONSTRUCTION
FINAL SUBMITTAL



Date:
Engineer of Record: TAMMY M. MARTIN
Florida License No. 73892

193108
SHEET
1 OF 39

GENERAL NOTES

1. ALL CONSTRUCTION MATERIALS AND TESTING SHALL CONFORM TO THE APPLICABLE SPECIFICATIONS OF THE CITY OF KEY WEST, LOCAL, MONROE COUNTY, STATE OF FLORIDA, AND NATIONAL CODES.
2. IF SPECIFICATIONS OR DRAWINGS CONFLICT, CONTRACTOR SHALL NOTIFY THE CITY OF KEY WEST FOR MORE INFORMATION PRIOR TO PROCEEDING WITH THE WORK.
3. REVIEW OF THE SHOP DRAWINGS BY THE CITY OF KEY WEST IS ONLY FOR CONFORMANCE WITH THE DESIGN CONCEPT OF THE PROJECT AND COMPLIANCE WITH THE INFORMATION GIVEN IN THE CONTRACT DOCUMENTS. THE CONTRACTOR IS RESPONSIBLE FOR DIMENSIONS TO BE CONFIRMED AND CORRELATED AT THE SITE FOR INFORMATION THAT PERTAINS SOLELY TO THE FABRICATION, PROCESSES, OR TO THE MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES OF CONSTRUCTION AND FOR COORDINATION OF THE WORK OF ALL TRADES.
4. "SCREENED" (LIGHT) DELINEATION INDICATED ON THE DRAWINGS DENOTES EXISTING FACILITIES. "SCREENED" INFORMATION IS FOR REFERENCE ONLY, AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO THE ORDERING OF MATERIALS AND BEGINNING OF CONSTRUCTION. "BOLD" DELINEATION IS NEW WORK TO BE CONSTRUCTED UNDER THIS CONTRACT.
5. EXISTING UTILITIES AND STRUCTURES (UNDERGROUND, SURFACE, OR OVERHEAD) ARE INDICATED ONLY TO THE EXTENT THAT SUCH INFORMATION WAS KNOWN, OR MADE AVAILABLE TO, OR DISCOVERED BY THE ENGINEER IN PREPARING THE DRAWINGS. THE LOCATIONS, CONFIGURATIONS, AND ELEVATIONS OF SUBSURFACE FACILITIES AND UTILITIES ARE APPROXIMATE, AND NOT ALL UTILITIES AND FACILITIES MAY BE INDICATED.

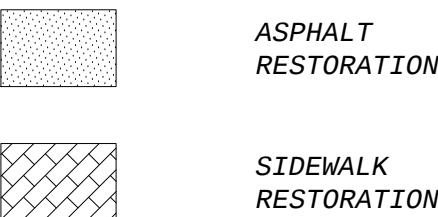
SURVEY NOTES

1. THESE DRAWINGS HAVE BEEN ADAPTED FROM THE TOPOGRAPHIC SURVEY PREPARED BY AVIROM & ASSOCIATES, INC. DATED JANUARY 25, 2017 AND AVAILABLE FOR CONTRACTOR REVIEW AND USE UPON REQUEST.
2. THE ELEVATIONS SHOWN HEREON ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88). NGVD29 = NAVD88 + 1.345' (FEET) FOR THIS LOCATION. BENCHMARK DESCRIPTION: NATIONAL GEODESIC SURVEY BENCHMARK "D121" (PID AA0020), ELEVATION 2.57 FEET (NAVD 1988).
3. THE PROPERTY DESCRIBED HEREON LIES WITHIN FLOOD ZONES AE, ELEVATION 8 FEET & AE, ELEVATION 9 FEET (NGVD 1929), AS SHOWN ON THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) FLOOD INSURANCE ROTE MAP, COMMUNITY PANEL NO.1201681517 K, DATED 02/18/05.
4. ALL PUBLIC LAND CORNERS AND/OR PROJECT CONTROL POINTS WITHIN THE LIMITS OF CONSTRUCTION ARE TO BE PROTECTED. IF A CORNER MONUMENT OR CONTROL POINT IS IN DANGER OF BEING DESTROYED OR DISTURBED AND HAS NOT BEEN PROPERLY REFERENCED BY A PROFESSIONAL SURVEYOR AND MAPPER LICENSED IN THE STATE OF FLORIDA, THE CONTRACTOR SHOULD NOTIFY THE CITY OF KEY WEST PRIOR TO PROCEEDING WITH THE WORK.
5. STRUCTURES SUCH AS CURBS AND GUTTERS, CONCRETE AND ASPHALT DRIVES AND WALKWAYS, PAVING BRICKS, FENCING, RETAINING WALLS, ETC., CROSSED BY THE PIPELINE ARE NOT ALL INDICATED IN PROFILE. CONTRACTOR SHALL FIELD VERIFY PRECISE LOCATION, ELEVATION, AND ARRANGEMENT OF CONNECTIONS OF NEW PIPELINES WITH EXISTING PIPELINES BASED ON FIELD CONDITIONS, INCLUDING EXPOSING EXISTING PIPING PRIOR TO FABRICATING NEW PIPING.

UTILITY NOTES

1. CALL BEFORE YOU DIG. CONTRACTOR SHALL VERIFY PRECISE LOCATIONS AND ELEVATIONS OF ALL UTILITIES AND STRUCTURES, WHETHER INDICATED ON THE DRAWINGS OR NOT, IN THE FIELD IN ADVANCE OF EXCAVATING. THE CONTRACTOR SHALL CONTACT FLORIDA SUNSHINE ONE TO VERIFY UNDER GROUND UTILITIES WITHIN THE PROJECT SITE. THE FLORIDA SUNSHINE ONE TELEPHONE NUMBER IS 811.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL, DEMOLITION, RECONSTRUCTION, AND RECONNECTION OF EXISTING FACILITIES AS REQUIRED TO COMPLETE THE WORK. IF REQUIRED AFTER FIELD VERIFICATION, CONTRACTOR SHALL COORDINATE WITH THE ENGINEER TO DETERMINE ANY NECESSARY MODIFICATIONS TO THE PROPOSED NEW WORK.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COST OF REPAIRING ALL DAMAGED UTILITIES.
4. BEFORE CONSTRUCTION IS STARTED, CONTRACTOR SHALL COORDINATE WITH THE OWNER OF EACH UTILITY AND DEFINE THE REQUIREMENTS AND METHODS TO ACCOMMODATE THE PROTECTION, TEMPORARY SUPPORT, ADJUSTMENT, OR RELOCATION OF ANY UTILITIES AFFECTED BY THE PROPOSED NEW WORK.

RESTORATION LEGEND



CIVIL NOTES

1. ALL EXISTING FEATURES TO REMAIN UNLESS OTHERWISE NOTED ON THE DRAWINGS.
2. CONTRACTOR SHALL COMPLY WITH THE GOVERNING AGENCY NPDES CONSTRUCTION REQUIREMENTS, AND SHALL PROVIDE APPROPRIATE MITIGATION MEASURES OR PROTECTION AND RESTORATION AT ALL LOCATIONS AS REQUIRED BY THEIR OPERATIONS, AND AS DIRECTED BY THE ENGINEER. CONTRACTOR SHALL BE RESPONSIBLE FOR EROSION AND SEDIMENT CONTROL DURING CONSTRUCTION. CONTRACTOR SHALL MAINTAIN AND REPAIR EROSION AND SEDIMENT CONTROL DEVICES THROUGHOUT THE DURATION OF CONSTRUCTION.
3. CLEAR THE SITE USING STANDARD CLEARING AND GRUBBING PROCEDURES.
4. SOD ALL DISTURBED AREAS, AS INDICATED ON THE DRAWINGS.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL AND DISPOSAL OF ANY CONSTRUCTION DEBRIS TO AN APPROVED FACILITY.
6. CONTRACTOR SHALL USE CAUTION WHEN WORKING NEAR OVERHEAD OR UNDER GROUND UTILITIES.
7. CONTRACTOR SHALL PROTECT AND MAINTAIN ALL EXISTING TREES, SHRUBS, AND PLANTS UNLESS OTHERWISE NOTED.
8. CONTRACTOR SHALL INSTALL ALL PIPELINES, PAVING, WALKWAYS, AND CURB AND GUTTER AT A UNIFORM GRADE BETWEEN ELEVATIONS DEPICTED ON THE DRAWINGS.
9. FOR ALL SITE GRADING, SMOOTH PARABOLIC TRANSITIONS SHALL BE MADE BETWEEN CHANGES IN SLOPE. PARABOLIC ROUNDING SHALL APPLY TO ALL CUT AND FILL SECTIONS.
10. FINISHED GRADE ELEVATION AT ANY STRUCTURE, WHERE NOT ADJACENT TO PAVEMENT, SHALL BE APPROXIMATELY 6 INCHES BELOW FINISHED FLOOR ELEVATION UNLESS OTHERWISE NOTED.
11. THE CONTRACTOR'S OPERATIONS SHALL CONFORM TO THE RULES AND REGULATIONS OF THE STATE CONSTRUCTION SAFETY ORDERS PERTAINING TO EXCAVATION AND TRENCHING.
12. RESTRAINED JOINTS SHALL BE PROVIDED FOR BURIED PIPING AS INDICATED ON THE DRAWINGS AND/OR AS SCHEDULED IN THE SPECIFICATIONS.
13. HORIZONTAL STATIONING ALONG THE PIPELINE ALIGNMENT IS FOR LEVEL LINE MEASUREMENT AND FOR PAYMENT OF THE PIPELINES. CONTRACTOR SHALL PROVIDE THE ACTUAL PIPE LENGTH TO BE DETERMINED BY THE SLOPE OR CURVE ON WHICH THE PIPE IS INSTALLED.
14. THE DRAWINGS INDICATE TYPES OF PIPE SUPPORT SYSTEMS AT VARIOUS LOCATIONS. HOWEVER, ALL PIPE SUPPORTS, HANGERS, BRACKETS, INSERTS OR BRACES ARE NOT SHOWN. CONTRACTOR SHALL REFER TO THE SPECIFICATIONS AND PROVIDE A COMPLETE SUPPORT SYSTEM AS REQUIRED.
15. ALL DIP SHALL BE PROTECTED WITH A MINIMUM OF ONE WRAP OF POLYETHYLENE ENCASEMENT.
16. IF ANY SIGNAGE IS DEMOLISHED OR DAMAGED DURING CONSTRUCTION THE CONTRACTOR WILL REPLACE IT IN KIND PER CITY OF KEY WEST SPECIFICATIONS.

BURIED PIPE THRUST RESTRAINT

MINIMUM RESTRAINED LENGTH (ft) FOR A TEST PRESSURE OF 50 PSI		
NOMINAL PIPE SIZE (in)	FITTING TYPE	
	90° ELBOW	45° ELBOW
16 (PVC)	40	20
16 (DIP)	40	20

THRUST RESTRAINT NOTES:

1. FOR VALUES AT PRESSURES OTHER THAN 50 PSI, MULTIPLY TABLE VALUES BY THE RATIO OF ACTUAL TEST PRESSURE TO 50.
2. WHERE LISTED VALUES ARE LESS HAN ONE PIPE SEGMENT, RESTRAIN THE FITTING JOINTS ONLY.
3. LENGTHS ARE FOR PIPE RUNS ON EACH SIDE OF A CHANGE IN DIRECTION.
4. ALL BURIED PIPING SPECIFIED TO BE PRESSURE TESTED, EXCEPT FLANGED, WELDED, OR SCREWED PIPING, SHALL BE PROVIDED WITH THRUST RESTRAINT AT ALL DIRECTIONAL CHANGES AND DEAD ENDS.
5. PRESSURE TESTING, PER SPECIFICATION 02704 PIPELINE AND LEAKAGE TESTING, SHALL BE PERFORMED AT 50 PSI.

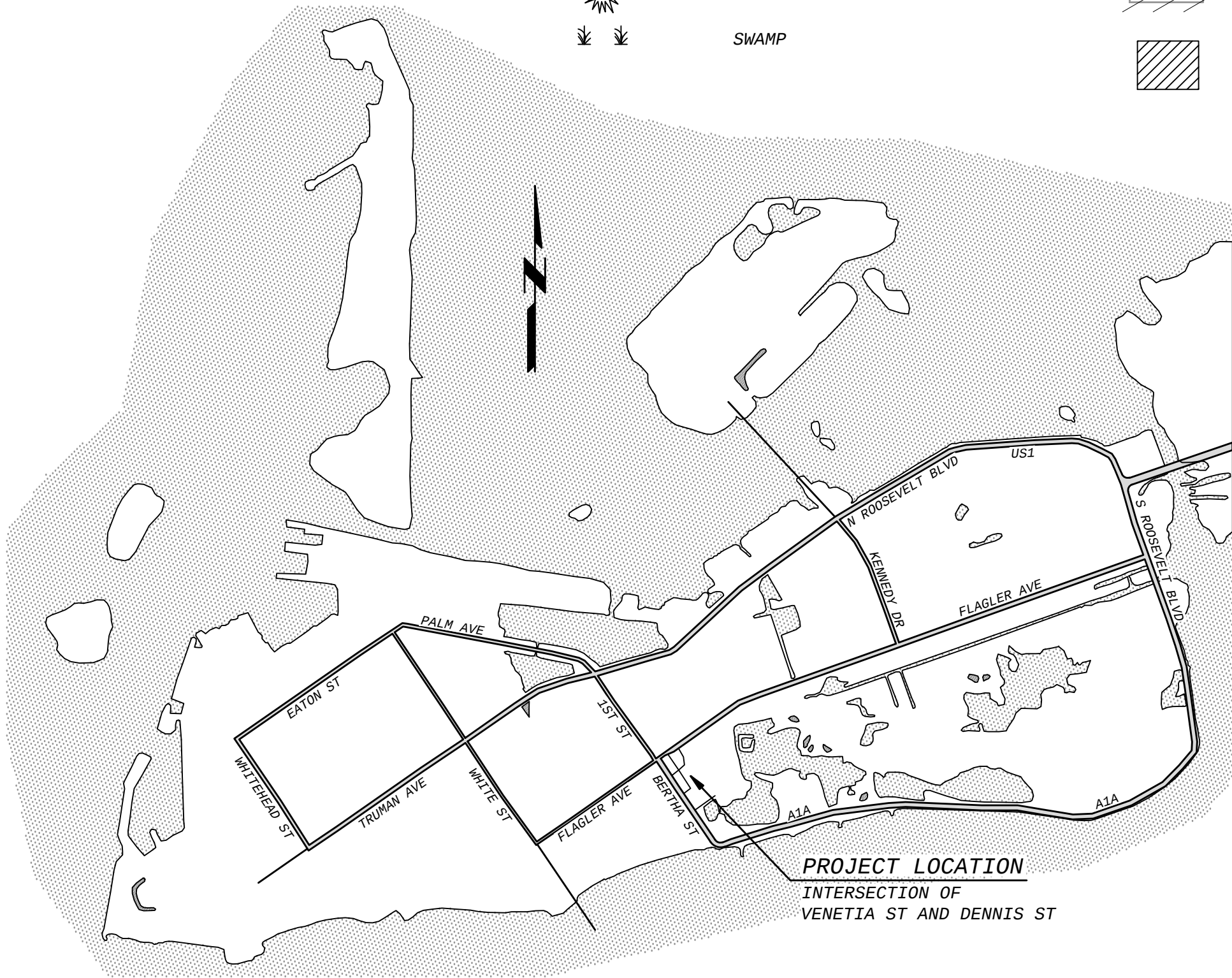
ABBREVIATIONS

@	AT
ABDN	ABANDON
BOT	BOTTOM
CB	CATCH BASIN
CLDIP	CEMENT LINED DUCTILE IRON PIPE
CONC	CONCRETE
CPE	CORRUGATED POLYETHYLENE
DF	DRAINAGE FORCE MAIN
DIA	DIAMETER
DIP	DUCTILE IRON PIPE
DR	DRIVE, DIMENSION RATIO
DRN	DRAIN
E	EAST
EL	ELEVATION
EW	EACH WAY
EX, EXST	EXISTING
FL	FLANGE
FM	FORCE MAIN
MIN	MINIMUM
MJ	MECHANICAL JOINT
N	NORTH
NO.	NUMBER
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
PL	PROPERTY LINE
PP	POWER POLE
PVC	POLYVINYLCHLORIDE
RCP	REINFORCED CONCRETE PIPE
REQD	REQUIRED
RJ	RESTRAINED JOINT
RT	RIGHT
R/W	RIGHT OF WAY
S	SOUTH, SANITARY
SD	STORM DRAIN
SDR	STANDARD DIMENSION RATIO
SPEC'D	SPECIFIED
SS	STORM SEWER
SS, SST	STAINLESS STEEL
STA	STATION
STW	STORMWATER
T, TEL	TELEPHONE
TYP	TYPICAL
W	WEST, WATER
WT	WEIGHT

	EXISTING CATCH BASIN
	MANHOLE
	SANITARY MANHOLE
	DRAINAGE COURSE, FLOW LINE
	EXISTING GROUND CONTOUR
	FINISH GRADE CONTOUR
	BANK, SLOPE LINES
	TEST HOLE AND NUMBER
	SURVEY LINE
	CONCRETE ENCASEMENT-PLAN
	WATER LINE
	WATER METER
	EXISTING STORMWATER
	SANITARY SEWER LINE
	ELECTRICAL (UNDERGROUND)
	POWER, TELEPHONE LINES (OVERHEAD)
	SILT FENCE
	FIRE HYDRANT
	YARD HYDRANT
	STREET LIGHT POLE
	TRAFFIC SIGNAL
	TRAFFIC SIGN
	STOPSIGN
	HEDGE, BRUSH, SHRUBS, WOODS
	DECIDUOUS TREE W/ TRUNK DIA
	CONIFEROUS TREE W/ TRUNK DIA
	SWAMP

GENERAL LEGEND

	BUILDINGS, STRUCTURES
	STRUCTURES UNDERGROUND
	EXISTING BUILDINGS, STRUCTURES
	NEW PIPING
	UNDERGROUND PIPING
	EXISTING PIPING
	FUTURE PIPING
	FENCE
	DRAINAGE EASEMENT
	GENERATOR EASEMENT
	CENTERLINE
	SECTION NUMBER OR DETAIL LETTER
	DRAWING NUMBER ON WHICH SECTION OR DETAIL APPEARS; OR WHERE SECTION IS CUT OR DETAIL IS NOTED
	WALL ELEVATION
	DOOR, WINDOW AND LOUVER SCHEDULE REFERENCE
	ABBREVIATION
	SCHEDULE NUMBER
	ROOM NUMBER
	AREA DESIGNATION
	EQUIPMENT OR VALVE IDENTIFICATION CODE
	EQUIPMENT NUMBER
	EQUIPMENT REPRESENTATION WITH CALLOUT
	EXISTING FACILITY TO BE DEMOLISHED OR REMOVED
	INLET PROTECTION



LOCATION MAP
NO SCALE

NOTE :
SYMBOLS ON THIS SHEET WHICH ARE TO BE SHOWN AS EXISTING SHALL BE DELINEATED AS SCREENED
THOSE SYMBOLS WHICH ARE TO BE SHOWN AS NEW SHALL BE DELINEATED AS SOLID (HEAVY)

ISSUED FOR CONSTRUCTION

DESIGNED: KAC
DETAILED: VVV
CHECKED:
APPROVED:
DATE: MARCH 2019

8 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

PROJECT NO.
193108

G-001
SHEET
2 OF 39

CITY OF KEY WEST
DENNIS STREET STORMWATER
PUMP STATION IMPROVEMENTS

GENERAL
NOTES, LEGENDS, ABBREVIATIONS
AND LOCATION MAP

BLACK & VEATCH

Black & Veatch Corporation
2855 N. University Drive, Suite 210
Coral Springs, FL 33065

Engineer of Record:
TAMMY M. MARTIN
Florida License No. 72892

Certificate No. 8132

DATE: _____
REVISIONS AND RECORD OF USE

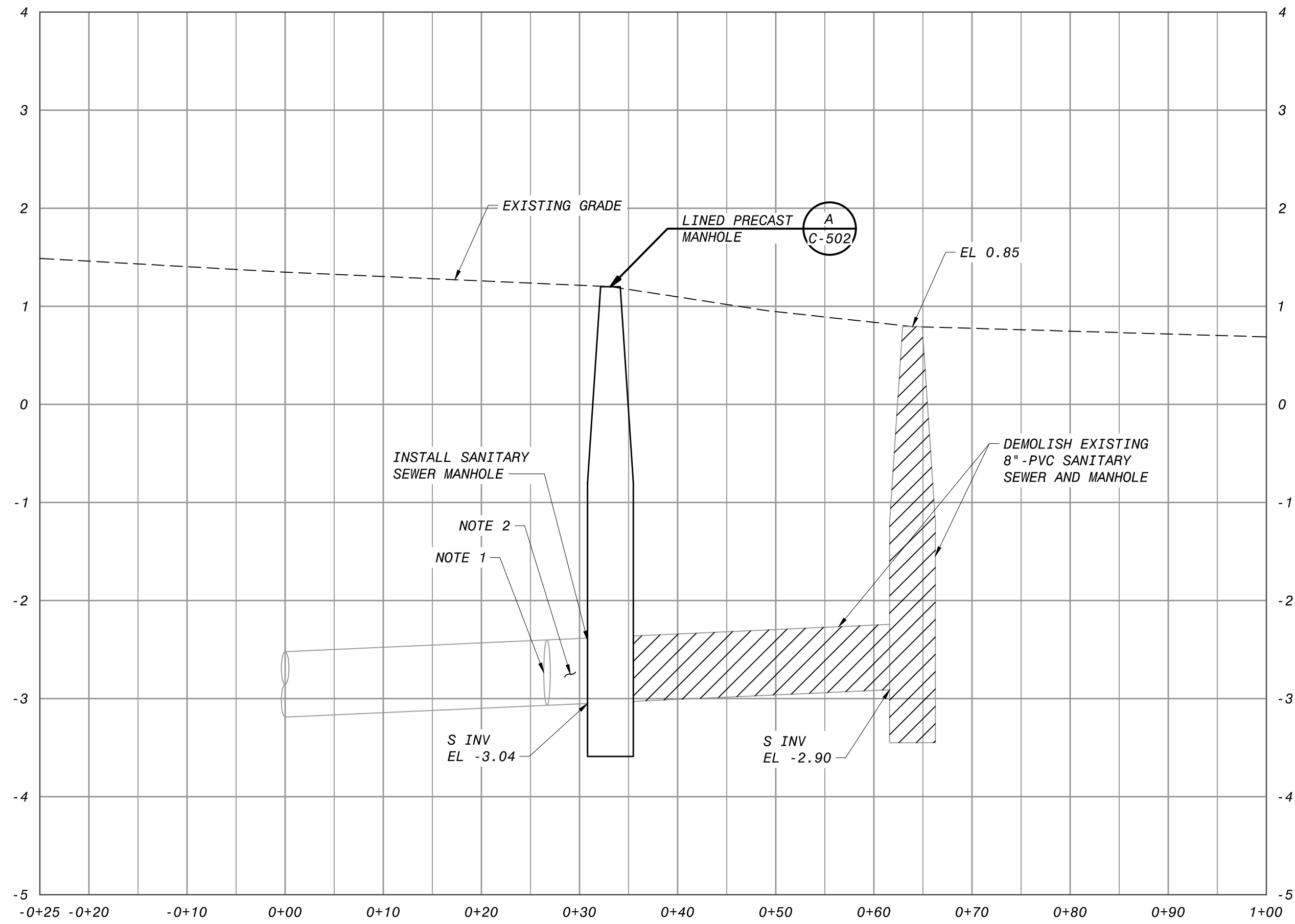
NO. _____
BY _____

CHK APP

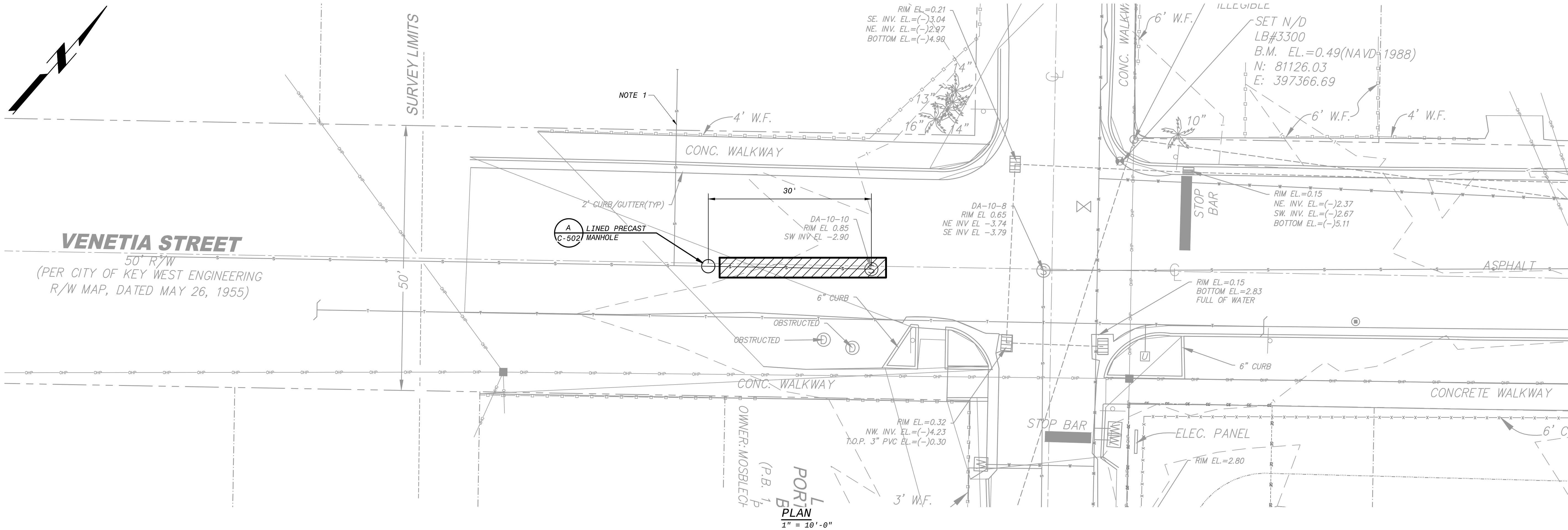
C-102.dwg
VAN16643, 9/11/2017 7:40:44 AM
VAN16643, 9/11/2017 7:38:44 AM
F0163108
D9006

NOTES:

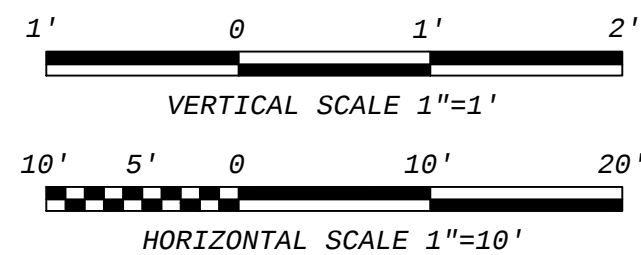
1. LOCATION OF LATERAL FOR REFERENCE ONLY, CONTRACTOR SHALL LOCATE ALL EXISTING LATERALS PRIOR TO CONSTRUCTION.
2. CONTRACTOR TO PROVIDE MEANS OF ISOLATION OF EXISTING SEWER GRAVITY MAIN UPSTREAM OF EXISTING LATERAL.
3. DEMOLITION WORK AND NEW MANHOLE INSTALLATION REQUIRED PRIOR TO PUMP STATION AND VALVE VAULT CONSTRUCTION.



PROFILE



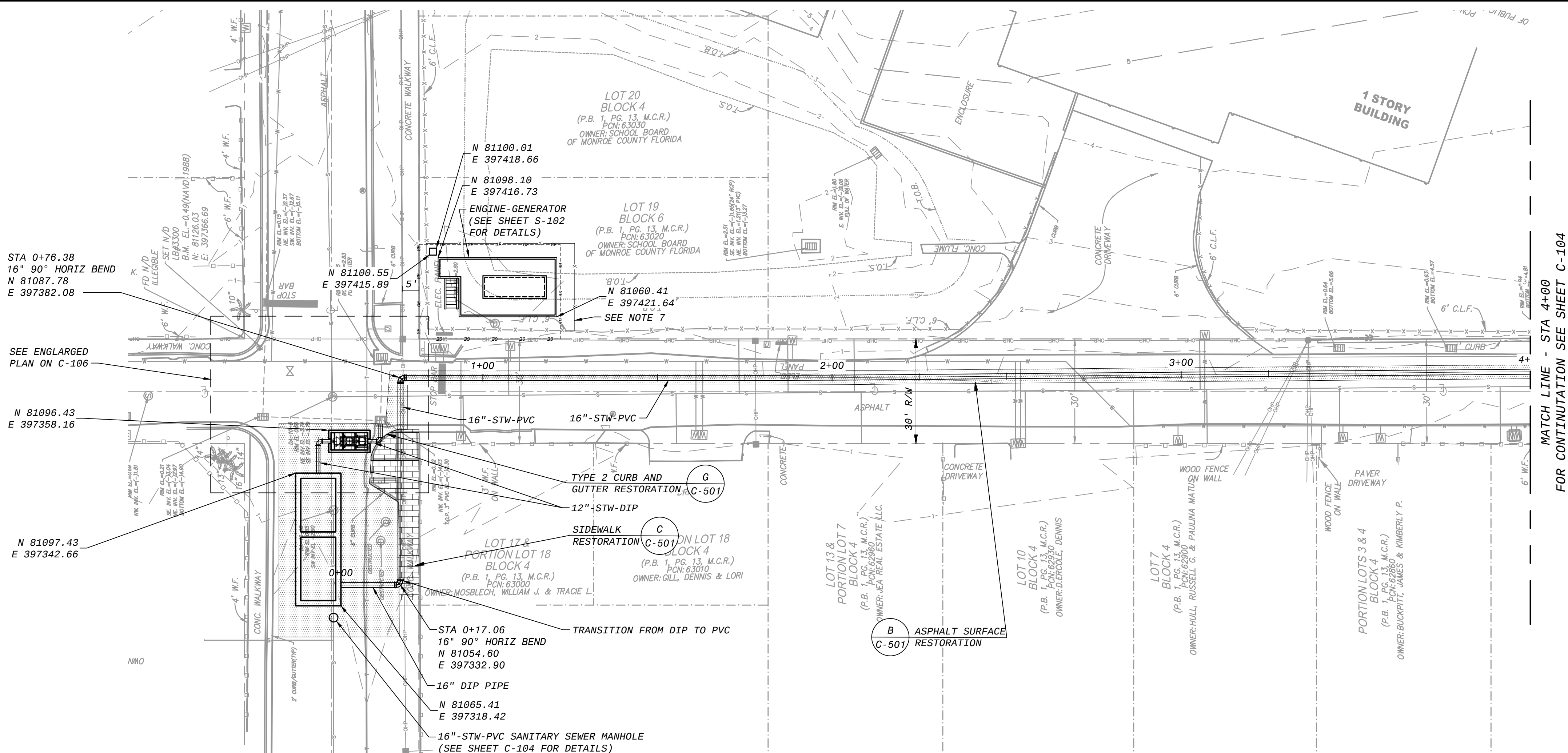
PLAN
1" = 10'-0"



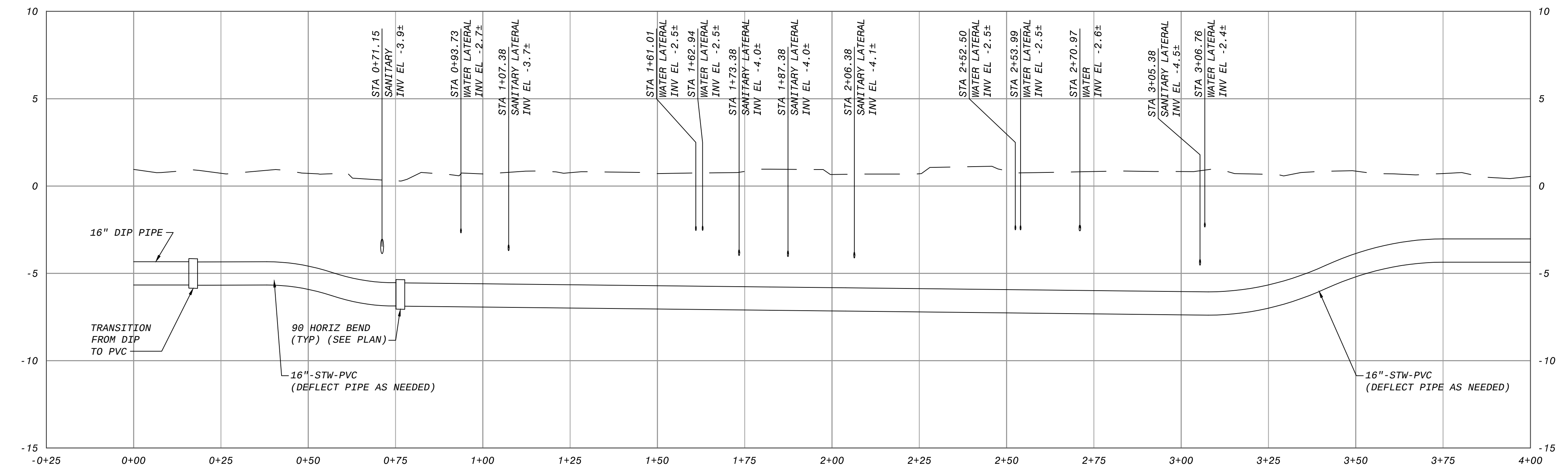
ISSUED FOR CONSTRUCTION

DESIGNED: MLM DETAILED: NGH CHECKED: ICB APPROVED: TMM DATE: MARCH 2019	
PROJECT NO. 193108	
SHEET 4 OF 39	
CITY OF KEY WEST DENNIS STREET STORMWATER PUMP STATION	
CIVIL MANHOLE INSTALLATION PLAN AND PROFILE	
BLACK & VEATCH Black & Veatch Corporation 2855 N. University Drive, Suite 210 Coral Springs, FL 33065 Certificate No. 8132	
Date: Engineer of Record: TAMMY M. MARTIN Florida License No.: No. 73892	
REVISIONS AND RECORD OF USE	
DATE	NO. BY CHK APP

C-101.dwg
VAN16643, 9/11/2017 7:30:45 AM
VAN16643, 9/11/2017 7:33:22 AM
FD163108
D3060

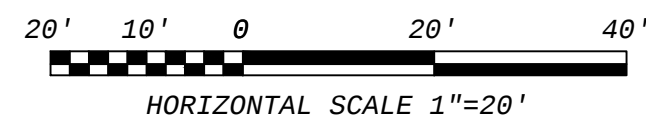


MATCH LINE - STA 4+00
FOR CONTINUATION SEE SHEET C-104



NOTES:

- FOR CURB AND GUTTER RESTORATION NOT CALLED OUT ON DRAWING USE TYPE C CURB AND GUTTER, DETAIL ON SHEET C-501.
- FOR SIDEWALK ACCESS RAMP REPAIR REFER TO SHEET C-501.
- FOR EMBEDMENT DETAIL AND TRENCH WIDTHS SEE SPECIFICATION 02202 TRENCHING AND BACKFILLING.
- CALL BEFORE YOU DIG. CONTRACTOR SHALL VERIFY PRECISE LOCATIONS AND ELEVATIONS OF ALL UTILITIES AND STRUCTURES, WHETHER INDICATED ON THE DRAWINGS OR NOT, IN THE FIELD IN ADVANCE OF EXCAVATION. THE CONTRACTOR SHALL CONTACT FLORIDA SUNSHINE ONE TO VERIFY UNDER GROUND UTILITIES WITHIN THE PROJECT SITE. THE FLORIDA SUNSHINE ONE TELEPHONE NUMBER IS 811.
- CONTRACTOR SHALL MAINTAIN MIN 12" SEPERATION BETWEEN EXISTING UTILITIES AND NEW PIPE.
- CONTRACTOR SHALL MAINTAIN A MINIMUM OF 3' OF PIPE COVER.
- CHAIN LINK FENCING INSTALLATION. REFER TO SPECIFICATION SECTION 02832.

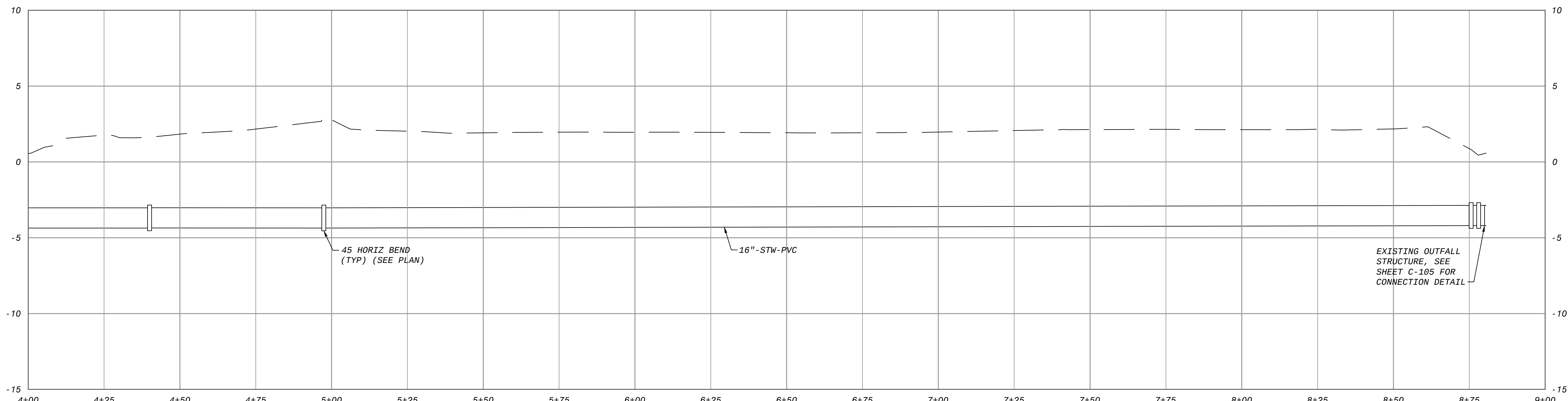
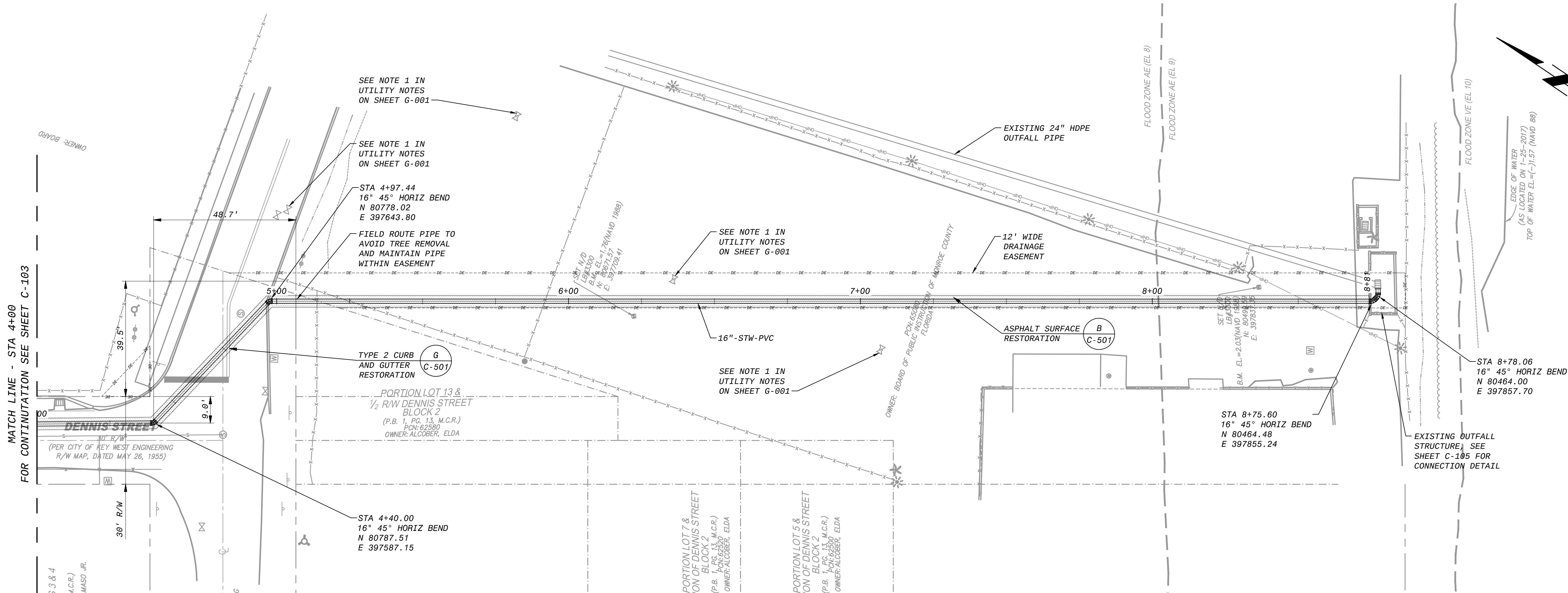


ISSUED FOR CONSTRUCTION

DESIGNED: MLM DETAILED: NGH CHECKED: ICB APPROVED: TMM DATE: MARCH 2019		PROJECT NO. 193108 C-103 SHEET 5 OF 39	
CITY OF KEY WEST DENNIS STREET STORMWATER PUMP STATION		CIVIL PLAN AND PROFILE 1 OF 2	
BLACK & VEATCH Black & Veatch Corporation 2855 N. University Drive, Suite 210 Coral Springs, FL 33065 Florida License No. 8132		TAMMY M. MARTIN PROFESSIONAL ENGINEER STATE OF FLORIDA No. 73892 Date: Engineer of Record: TAMMY M. MARTIN Florida License No. 73892	
REVISIONS AND RECORD OF USE		NO. BY CHK APP	

C-101.dwg
VAN16643, 9/11/2017 7:30:45 AM
VAN16643, 9/11/2017 7:23:22 AM

FD163108
DS000



- NOTES:
- FOR CURB AND GUTTER RESTORATION NOT CALLED OUT ON DRAWING USE TYPE C CURB AND GUTTER, DETAIL ON SHEET C-501.
 - FOR EMBEDMENT DETAIL AND TRENCH WIDTHS SEE SPECIFICATION 02202 TRENCHING AND BACKFILLING.
 - CALL BEFORE YOU DIG. CONTRACTOR SHALL VERIFY PRECISE LOCATIONS AND ELEVATIONS OF ALL UTILITIES AND STRUCTURES, WHETHER INDICATED ON THE DRAWINGS OR NOT, IN THE FIELD IN ADVANCE OF EXCAVATION. THE CONTRACTOR SHALL CONTACT FLORIDA SUNSHINE ONE TO VERIFY UNDER GROUND UTILITIES WITHIN THE PROJECT SITE. THE FLORIDA SUNSHINE ONE TELEPHONE NUMBER IS 811.
 - CONTRACTOR SHALL MAINTAIN MIN 12" SEPERATION BETWEEN EXISTING UTILITIES AND NEW PIPE.
 - CONTRACTOR SHALL MAINTAIN A MINIMUM OF 3' OF PIPE COVER.



ISSUED FOR CONSTRUCTION

DESIGNED: MLM		REVISIONS AND RECORD OF USE	NO.	BY	CHK APP
DETAILED: NGH					
CHECKED: ICB					
APPROVED: TMM					
DATE: MARCH 2019		DATE			
0 1/2 1					
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE					
PROJECT NO. 193108					
C-104 SHEET 6 OF 39					

CITY OF KEY WEST
DENNIS STREET STORMWATER
PUMP STATION

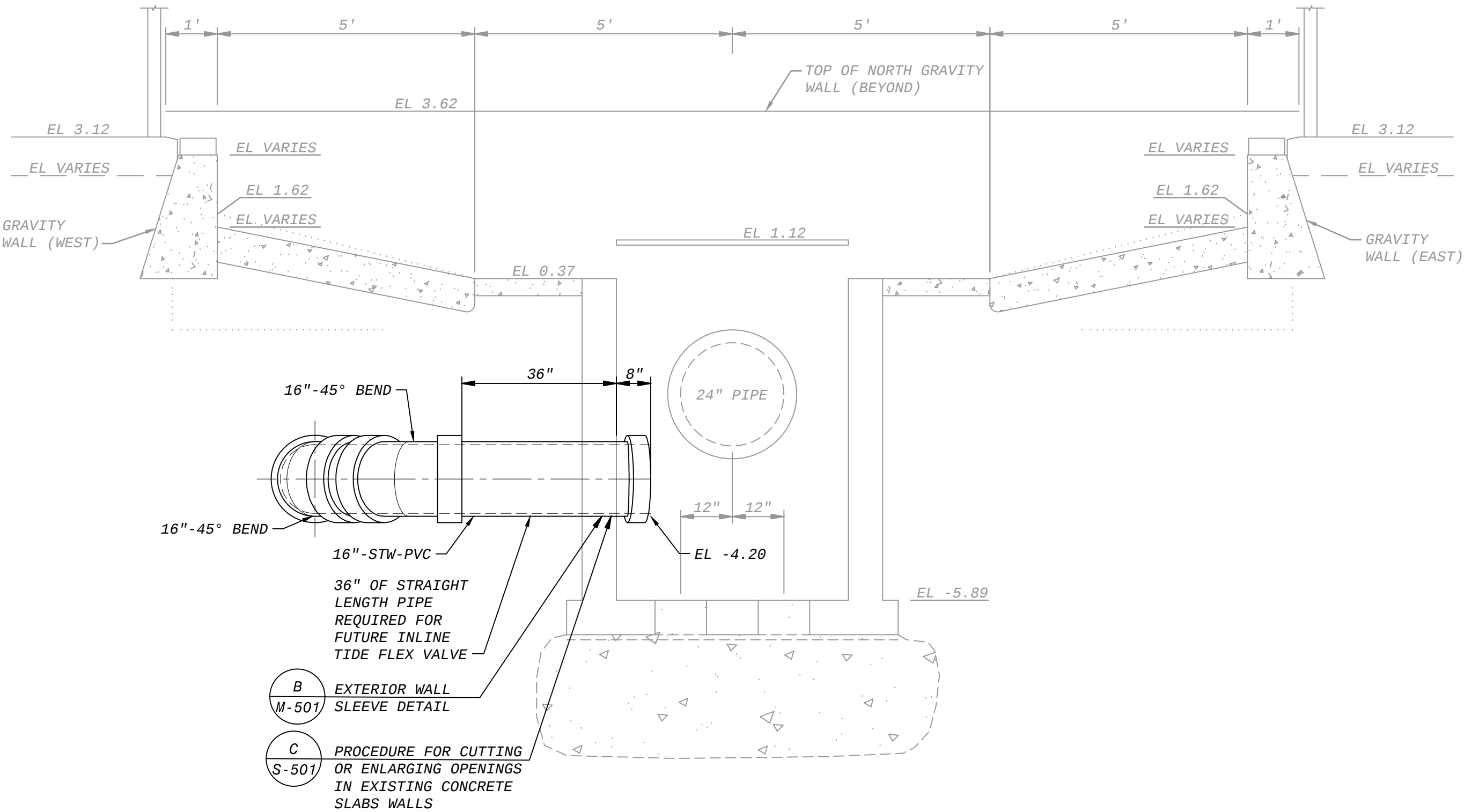
CIVIL
PLAN AND PROFILE 2 OF 2

BLACK & VEATCH

Black & Veatch Corporation
2855 N. University Drive, Suite 210
Coral Springs, FL 33065

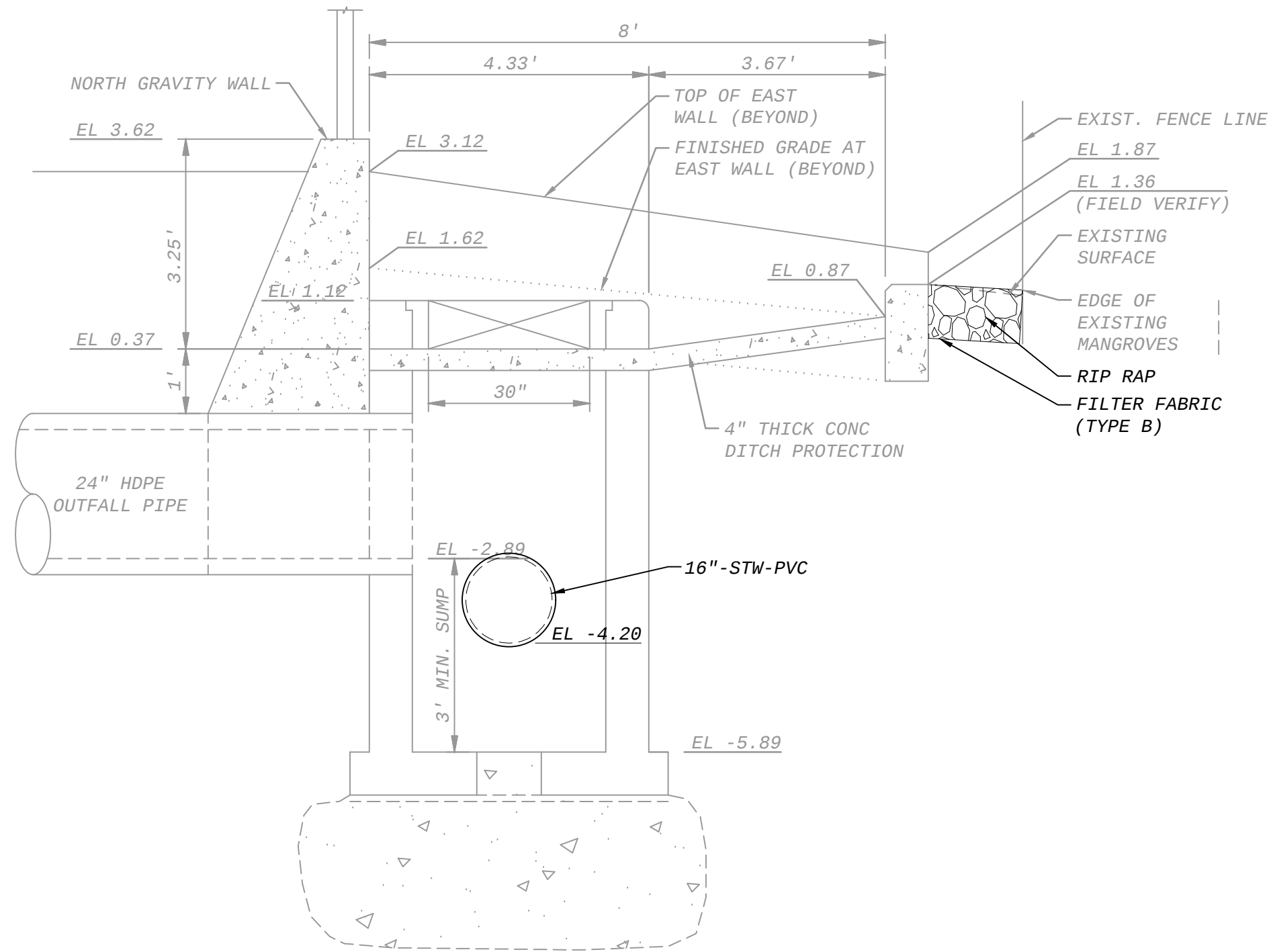
Engineer of Record:
TAMMY M. MARTIN
Florida License No.:
No. 73892

Date:
No. 73892



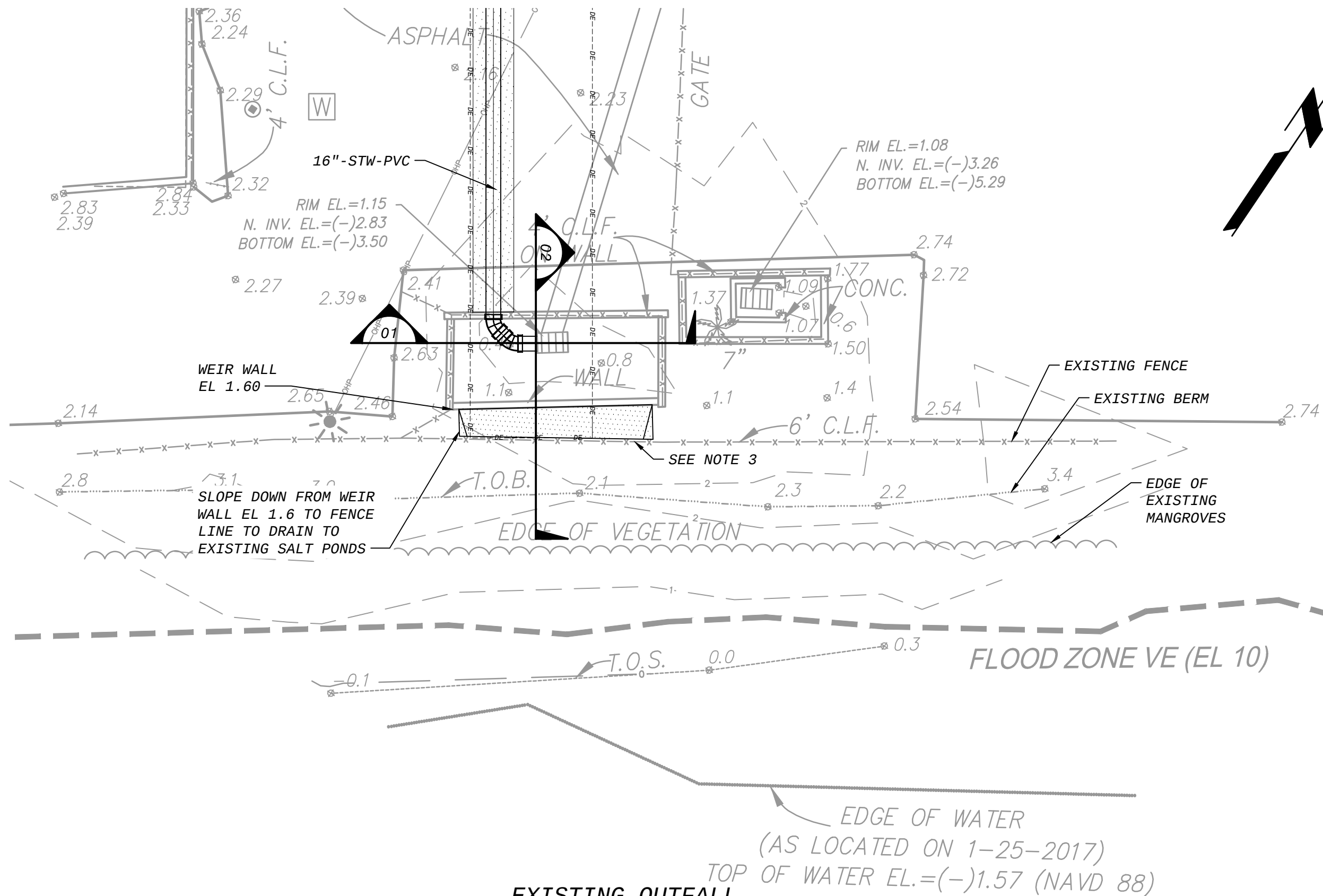
01 EXISTING OUTFALL SECTION
SCALE 1"=2'

- NOTE:
- ELEVATIONS ARE BASED OFF SFWMD ERP PERMIT NO.44-00281-P DRAWINGS FOR INSTALLATION OF EXISTING OUTFALL AND SURVEY REPORT FROM 1/25/2017.
 - IF EXISTING OUTFALL STRUCTURE IS DAMAGED BY CONTRACTOR, IT SHALL BE REPAIRED IN KIND.



02 EXISTING OUTFALL SECTION
SCALE 1"=2'

- NOTE:
- ELEVATIONS ARE BASED OFF SFWMD ERP PERMIT NO.44-00281-P DRAWINGS FOR INSTALLATION OF EXISTING OUTFALL AND SURVEY REPORT FROM 1/25/2017.
 - MANGROVES CANNOT BE DISTURBED OR REMOVED DURING CONSTRUCTION.



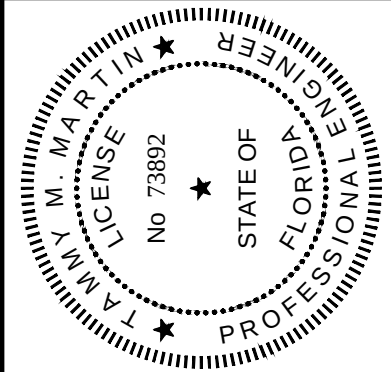
04 EXISTING OUTFALL
ENLARGED PLAN VIEW
SCALE 1"=10'

- NOTE:
- MANGROVES CANNOT BE DISTURBED OR REMOVED DURING CONSTRUCTION.
 - ELEVATIONS FROM SURVEY REPORT DATED 1/25/2017.
 - FENCING SHOULD NOT BE DISTURBED.



EXISTING OUTFALL PHOTO

- NOTE:
- MANGROVES CANNOT BE DISTURBED OR REMOVED DURING CONSTRUCTION.



Date: _____
Engineer of Record:
TAMMY M. MARTIN
Florida License No.:
No. 73892

BLACK & VEATCH

Black & Veatch Corporation
2855 N. University Drive, Suite 210
Coral Springs, FL 33065
Certificate No. 8132

CITY OF KEY WEST
DENNIS STREET STORMWATER
PUMP STATION

CIVIL
EXISTING OUTFALL STRUCTURE
PLAN, SECTION AND DETAILS

DESIGNED: MLM
DETAILED: NGH
CHECKED: ICB
APPROVED: TMM
DATE: MARCH 2019

0 1/2 1
IF THIS BAR DOES NOT
MEASURE 1" THEN DRAWING IS
NOT TO FULL SCALE

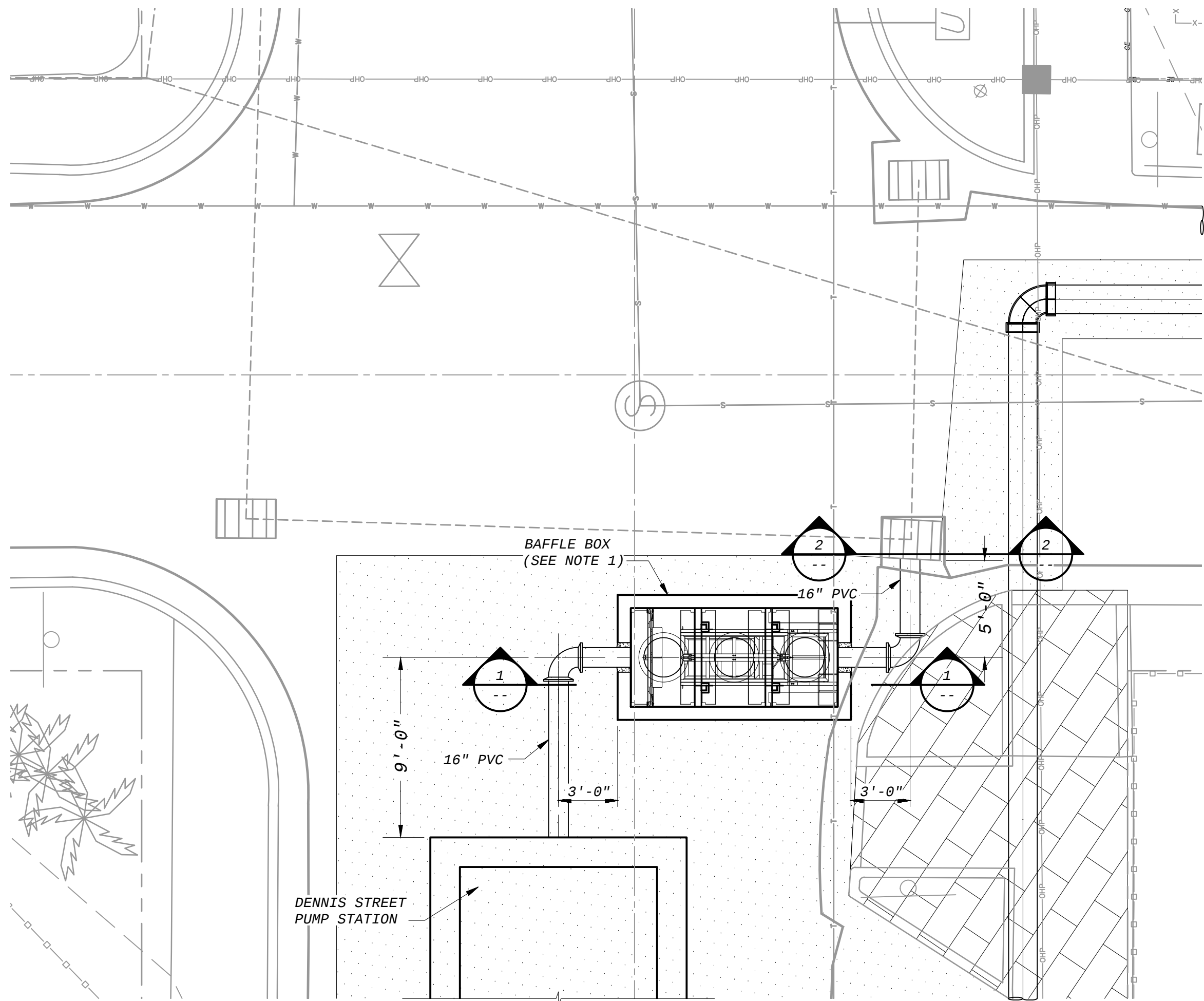
PROJECT NO.
193108

C-105
SHEET
7 OF 39

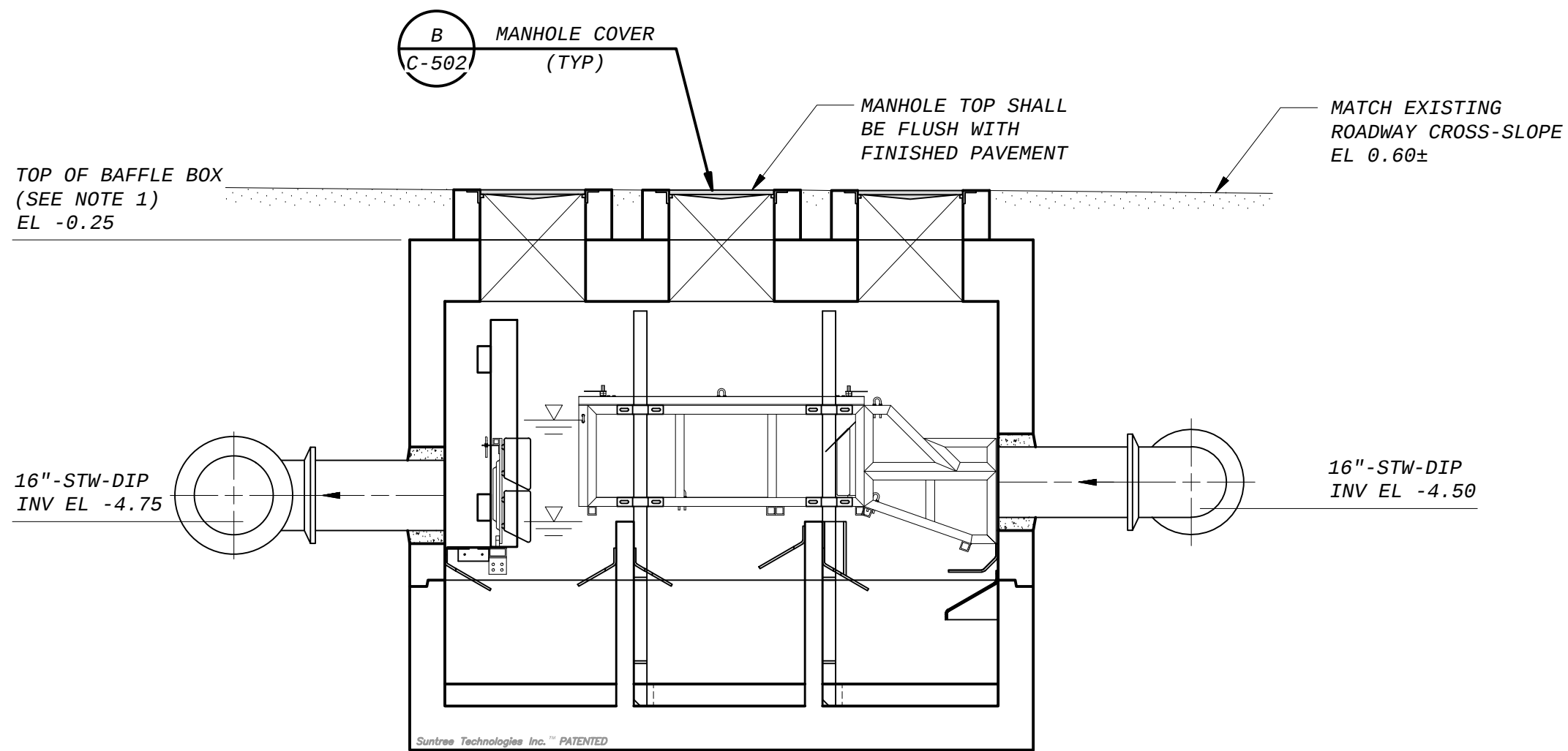
ISSUED FOR CONSTRUCTION

C-106.dwg
VAN16643, 9/11/2017 9:47:50 AM
VAN16643, 9/11/2017 9:44:58 AM

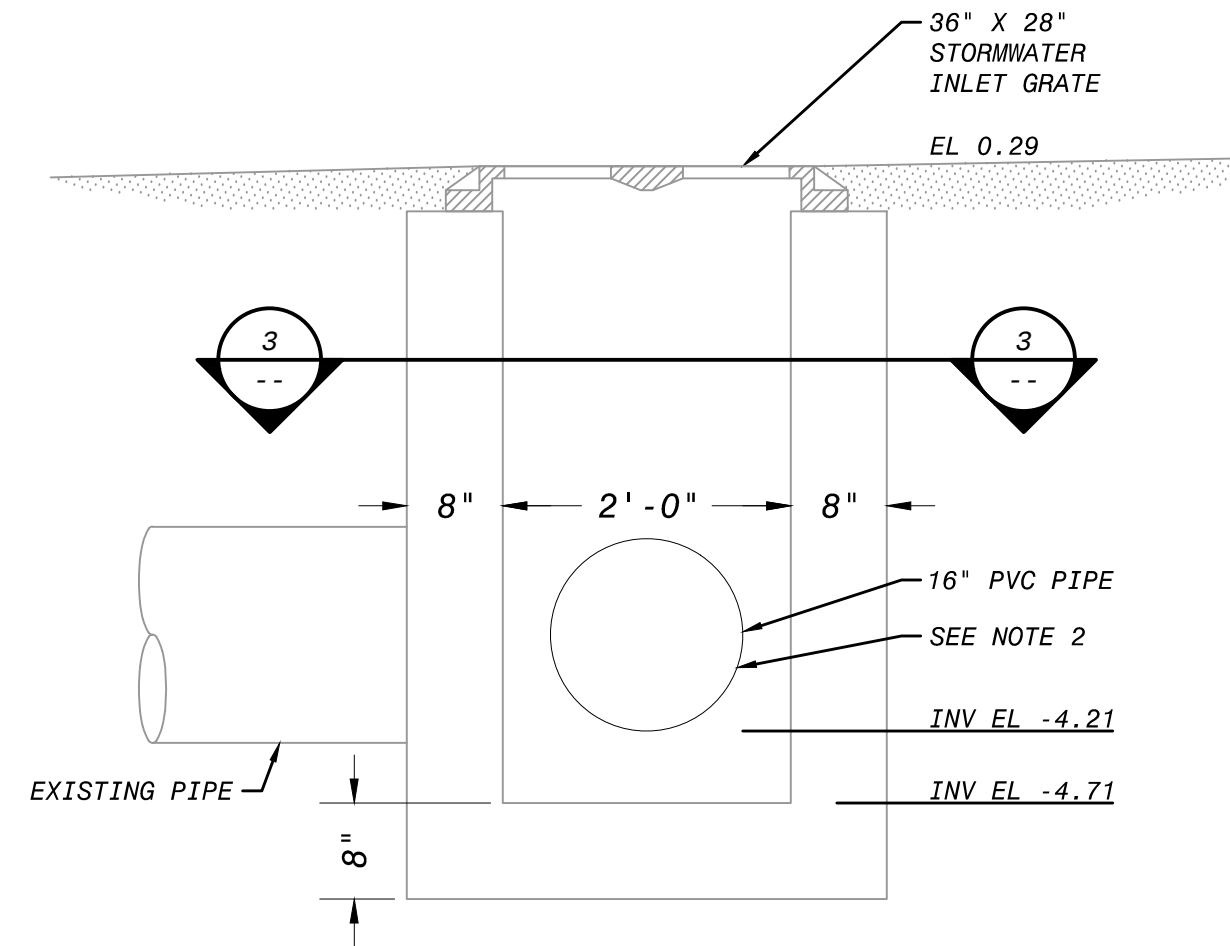
FD163108
DS606



ENLARGED PLAN
1" = 5'-0"



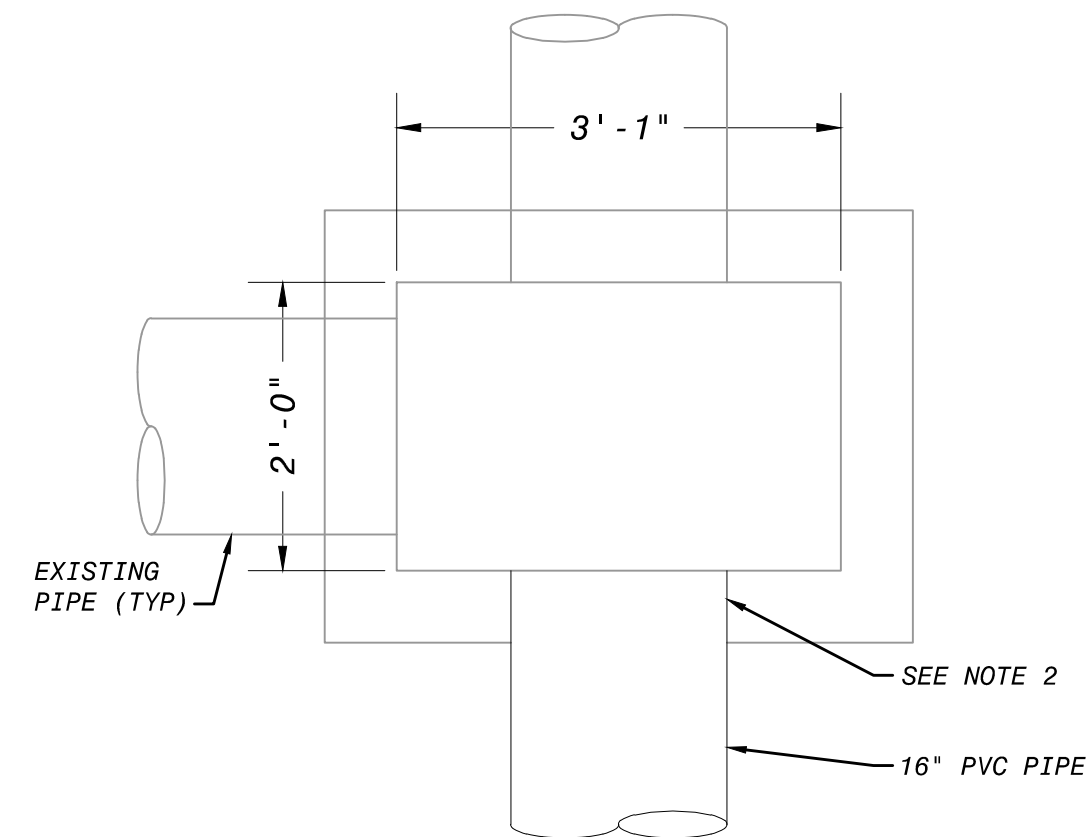
SECTION 1
3/8" = 1'-0"



EXISTING CATCH BASIN CONNECTION PROFILE
3/4" = 1'-0"

NOTES:

1. EXISTING PIPE LOCATIONS ARE APPROXIMATE.



EXISTING CATCH BASIN CONNECTION SECTIONAL PLAN
3/4" = 1'-0"

NOTES:

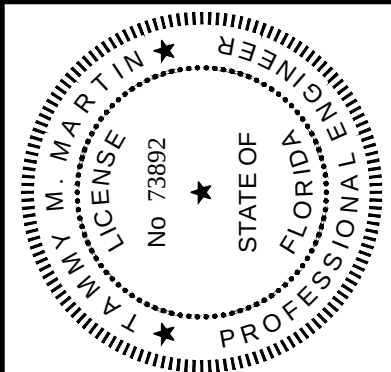
1. EXISTING PIPE LOCATIONS ARE APPROXIMATE.

NOTES:

1. THE NUTRIENT SEPARATING BAFFLE BOX TO BE DESIGNED AND PROVIDED BY APPROVED MANUFACTURER FOR CONTRACTOR INSTALLATION.
2. CONTRACTOR TO DEMOLISH EXISTING CONNECTION TO GRAVITY WELL AND INSTALL BLIND FLANGE.

5' 0 5' 10'
HORIZONTAL SCALE 1"=5'

ISSUED FOR CONSTRUCTION



Date: _____
Engineer of Record:
TAMMY M. MARTIN
Florida License No.: No. 73892



Black & Veatch Corporation
2855 N. University Drive, Suite 210
Coral Springs, FL 33065
Certificate No. 8132

CITY OF KEY WEST
DENNIS STREET STORMWATER
PUMP STATION

CIVIL
EXISTING CATCH BASIN CONNECTION & BAFFLE BOX
ENLARGED PLAN AND SECTION

DESIGNED: MLM
DETAILED: NGH
CHECKED: ICB
APPROVED: TMM
DATE: MARCH 2019

0 1/2 1
IF THIS BAR DOES NOT
MEASURE 1" THEN DRAWING IS
NOT TO FULL SCALE

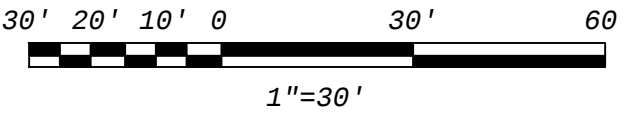
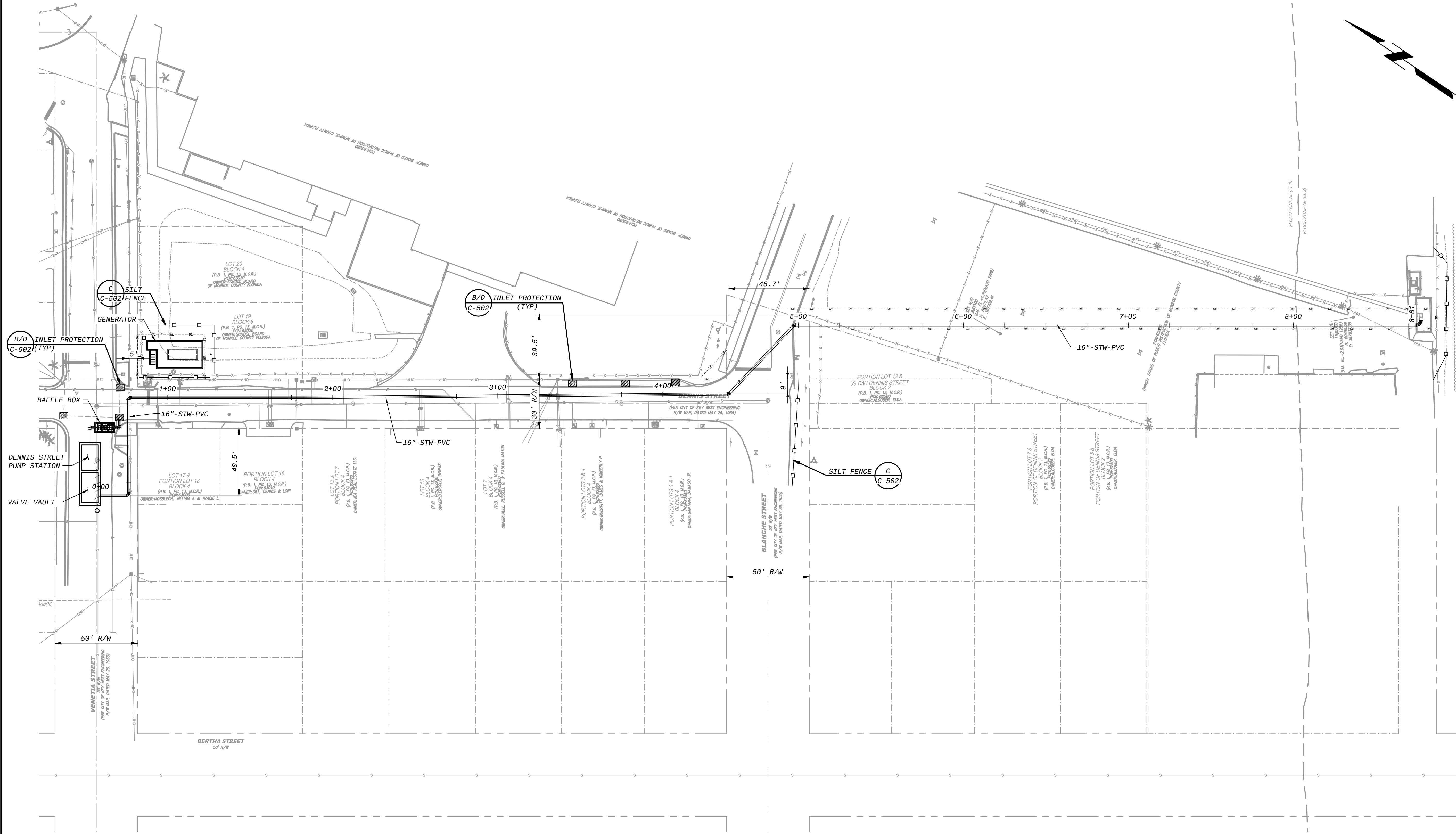
PROJECT NO.
193108

C-106
SHEET
8 OF 39

REVISIONS AND RECORD OF USE
NO. BY CHK APP
DATE

C-101.dwg
VAN16643, 9/11/2017 7:30:45 AM
VAN16643, 9/11/2017 7:33:22 AM

FD163108
DS000

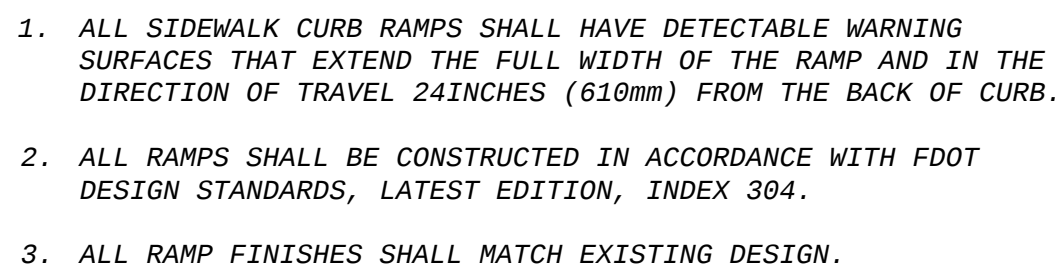
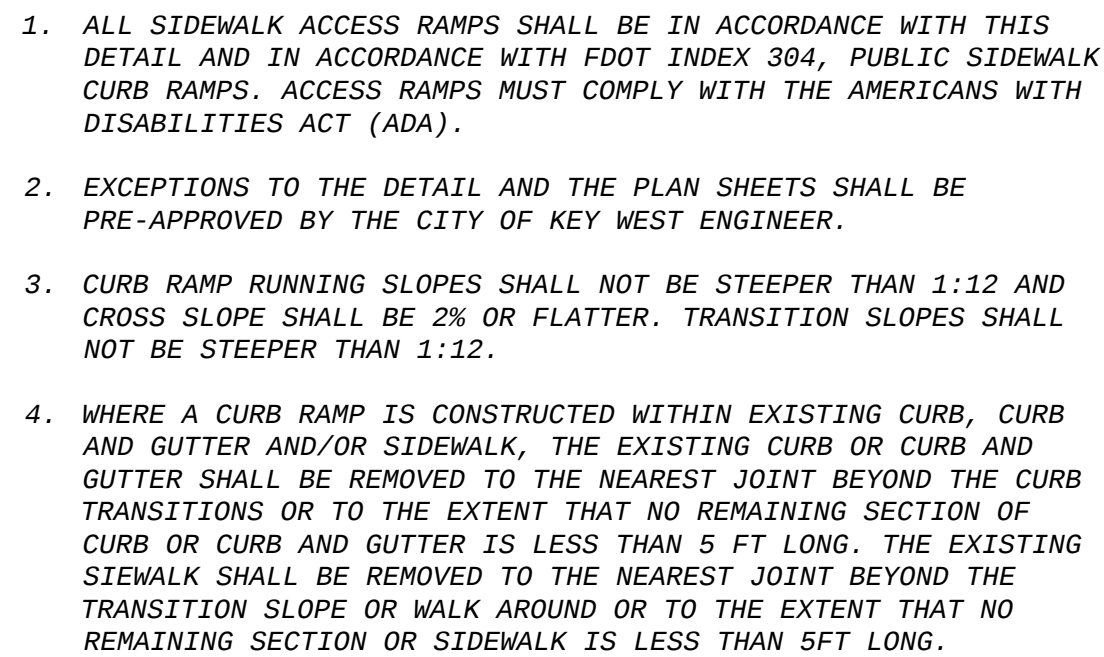


ISSUED FOR CONSTRUCTION

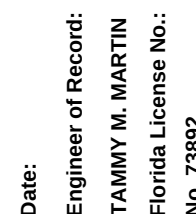
DESIGNED: MLM DETAILED: NGH CHECKED: ICB APPROVED: TMM DATE: MARCH 2019			REVISIONS AND RECORD OF USE	NO.	BY
PROJECT NO. 193108			DATE		
C-107 SHEET 9 OF 39					

	BLACK & VEATCH	Date:	Engineer of Record:
	Black & Veatch Corporation 2855 N. University Drive, Suite 210 Coral Springs, FL 33065	TAMMY M. MARTIN Florida License No. 73892	

CITY OF KEY WEST DENNIS STREET STORMWATER PUMP STATION	CIVIL STORMWATER POLLUTION PREVENTION PLAN
---	--



SIDEWALK
SCALES AS SHOWN

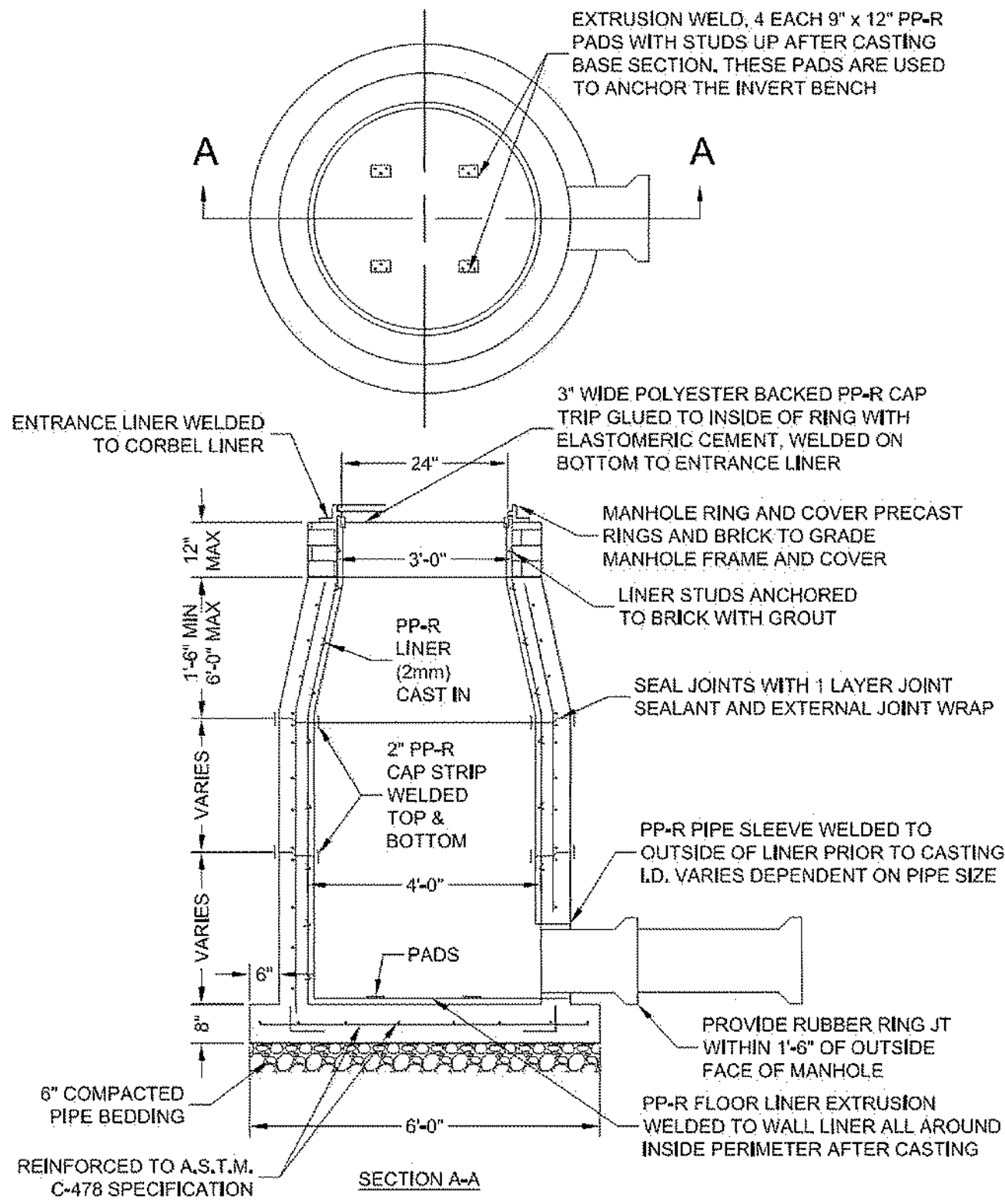


Black & Veatch Corporation
2855 N. University Drive, Suite 210
Coral Springs, FL 33065 Certificate No.

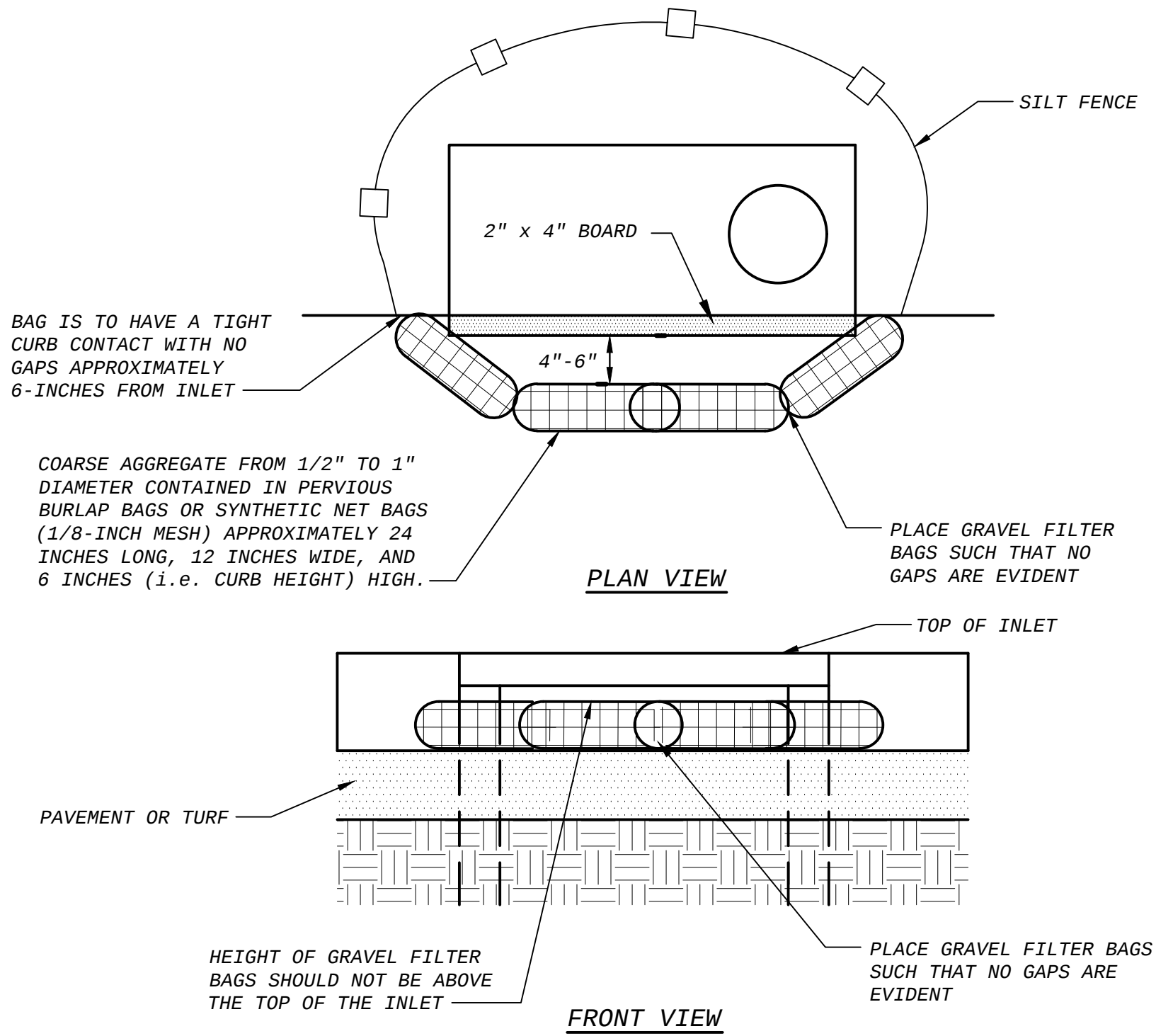
CIVIL
STANDARD DETAILS 1 OF 2

C-501
SHEET
10 OF 39

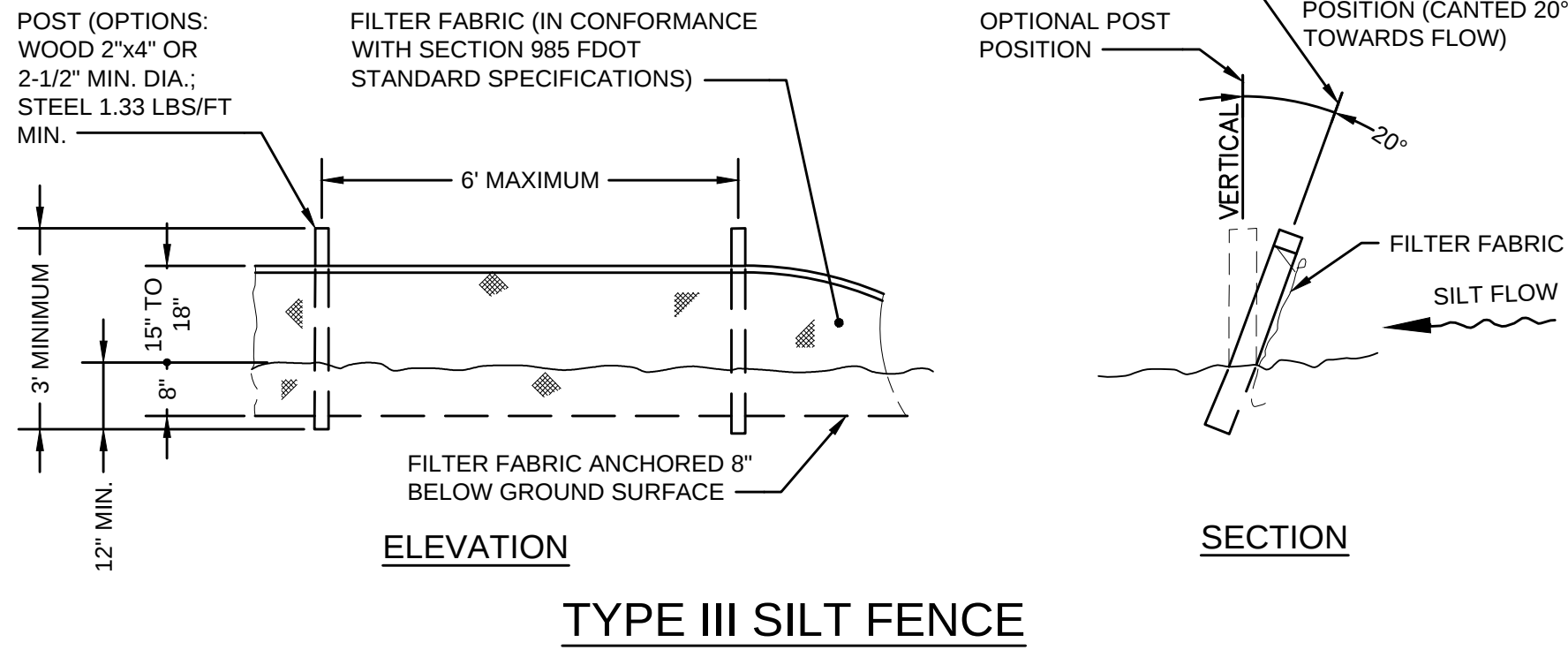
ISSUED FOR CONSTRUCTION



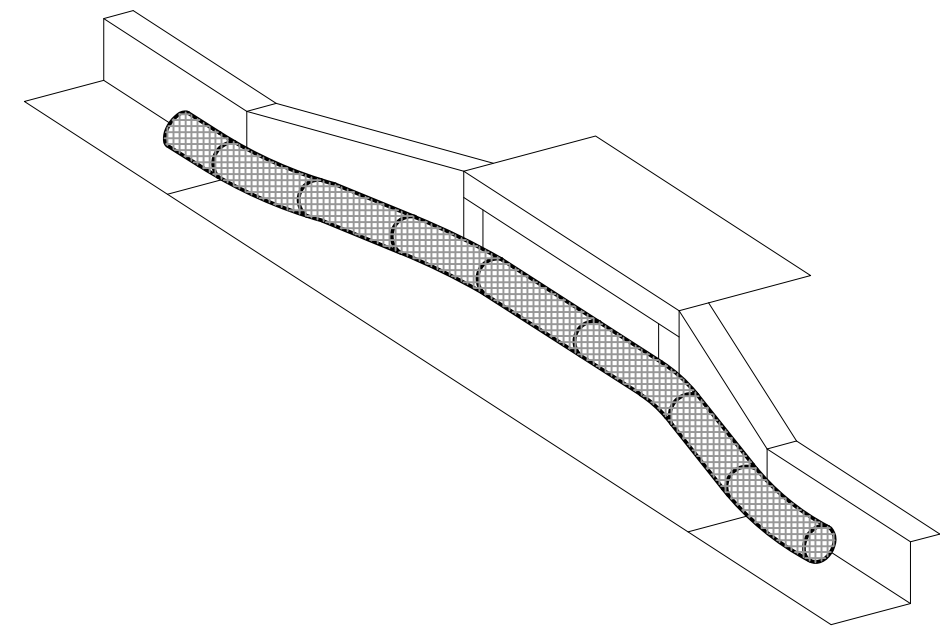
A **INSET MANHOLE RING AND COVER**
NO SCALE



B **GRAVEL FILTER BAG**
CURB INLET SEDIMENT FILTER
NO SCALE



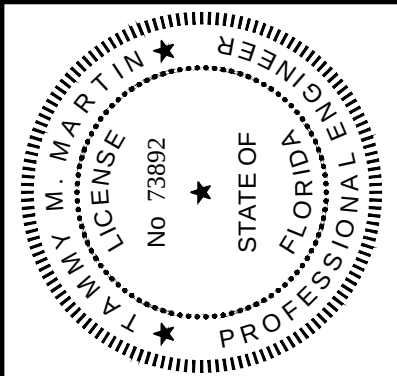
C **SEDIMENT FENCE DETAIL**
NO SCALE



NOTES:

1. THE GUTTERBUDDY® OR APPROVED EQUAL SHALL BE A FILTER MANUFACTURED FROM RECYCLED SYNTHETIC FIBERS OR APPROVED ALTERNATIVE.
2. THE GUTTERBUDDY® WILL BE MANUFACTURED TO BE 9" IN DIAMETER AND SHALL HAVE A MINIMUM LENGTH OF 24" LONGER THAN THE CURB INLET OPENING. THIS WILL ALLOW FOR SUFFICIENT LENGTH TO COVER THE INLET WITH 12" BEYOND THE INLET ON BOTH ENDS.
3. THE GUTTERBUDDY® SHALL BE CLEANED IF A VISUAL INSPECTION SHOWS SILT AND DEBRIS BUILD UP AROUND THE GUTTERBUDDY®.
4. PONDING IS LIKELY IF SEDIMENT IS NOT REMOVED REGULARLY. INSPECTION OF GUTTERBUDDY® SHOULD BE ON A REGULAR BASIS AND IMMEDIATELY AFTER MAJOR RAIN EVENTS.
5. GRAVEL FILTER BAG CURB INLET SEDIMENT FILTER MAY BE USED IN LIEU OF GUTTERBUDDY INLET PROTECTION UPON APPROVAL.

D **GUTTERBUDDY INLET PROTECTION**
NO SCALE



Date: _____
Engineer of Record:
TAMMY M. MARTIN
Florida License No.:
No. 73892

BLACK & VEATCH
Black & Veatch Corporation
2855 N. University Drive, Suite 210
Coral Springs, FL 33065
Certificate No. 8182

CITY OF KEY WEST
DENNIS STREET STORMWATER
PUMP STATION

CIVIL
STANDARD DETAILS 2 OF 2

DESIGNED: MLM
DETAILED: UPS
CHECKED: ICB
APPROVED: TMM
DATE: MARCH 2019

0 1/2 1
IF THIS BAR DOES NOT
MEASURE 1" THEN DRAWING IS
NOT TO FULL SCALE

PROJECT NO.
193108

C-502
SHEET
11 OF 39

ISSUED FOR CONSTRUCTION