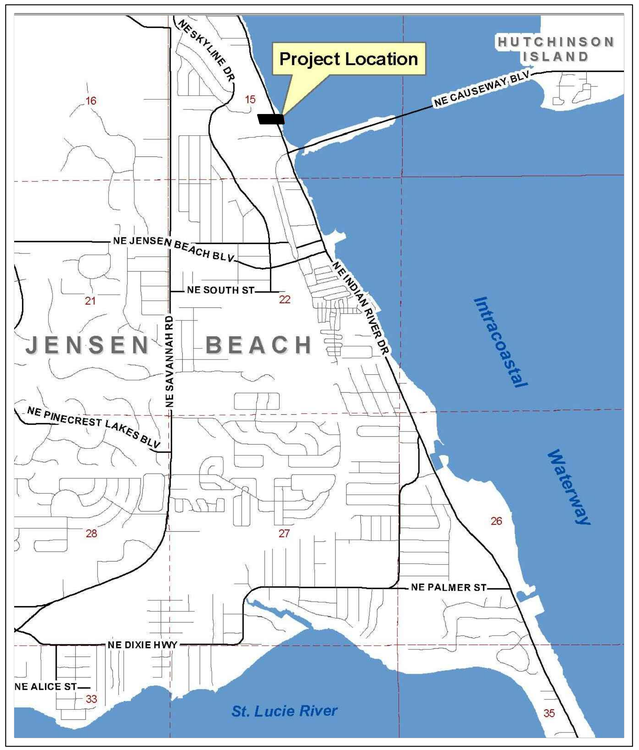
ENGINEERING PLANS AND SPECIFICATIONS
FOR
CONCHY JOE'S
SECTION 15, TOWNSHIP 37 SOUTH, RANGE 41 EAST,
JENSEN BEACH, FLORIDA

NO.	DATE	REVISION	BY
1	8-20-19	PER MARTIN COUNTY COMMENTS	AT
2	9-25-19	PER REVISED MEAN HIGH WATER LINE (MHWL)	AT
3	12-10-19	PER MARTIN COUNTY COMMENTS	FM
4	1-8-20	REVISED PER MARTIN COUNTY	FM
5	2-17-20	PER MARTIN COUNTY UTILITY COMMENTS	FM



LOCATION MAP

SHEET INDEX

THE MILCOR GROUP, INC.

CIVIL ENGINEERS
10975 SE FEDERAL HIGHWAY
HOBE SOUND, FL 33455-5006

PH: (772)223-8850
FAX: (772) 223-8851
WEB:
WWW.THEMILCORGROUP.COM
CERTIFICATE OF AUTHORIZATION:
28246

KENNETH M. RAU
LICENSE
No. 72738
Feb 17 2020
STATE OF FLORIDA
PROFESSIONAL ENGINEER

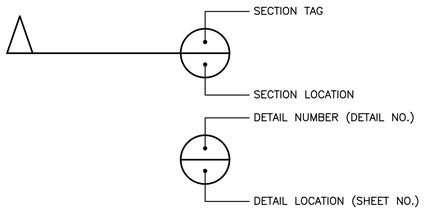
CONCHY JOE'S
JENSEN BEACH, FLORIDA

UTILITY LEGEND

- FL — FIRE LINE
- FM — FORCE MAIN
- FUEL — FUEL LINE
- GAS — GAS MAIN
- IRR — IRRIGATION LINE
- IQ — IRRIGATION QUALITY
- OHE — OVERHEAD ELECTRIC
- PVC — POLY VINYL CHLORIDE
- RWM — RAW WATER MAIN
- SAN — SANITARY SEWER
- SLEEVING
- UGC — UNDER-GROUND CABLE
- UGE — UNDER-GROUND ELECTRIC
- UGFO — UNDER-GROUND FIBER OPTICS
- UGT — UNDER-GROUND TELEPHONE
- WM — WATER MAIN
- WS — WATER MAIN
- CHECK VALVE
- FIRE HYDRANT
- GATE VALVE
- GREASE TRAP
- LIGHT POLE
- POWER POLE
- SANITARY MANHOLE
- SANITARY SEWER LATERAL (SINGLE SERVICE)
- SANITARY SEWER LATERAL (DOUBLE SERVICE)
- TERMINAL CLEAN OUT
- WATER METER (SINGLE SERVICE)
- WATER METER (DOUBLE SERVICE)
- WELL

PLANS LEGEND

- BUILDING
- CENTER LINE
- CURB & GUTTER
- EASEMENT
- EOW — EDGE OF WATER
- EDGE OF PAVEMENT
- FENCE
- GUARD RAIL
- IMPERMIABLE BARRIER
- LOT LINE
- MATCH LINE
- PRESERVE BARRICADE
- PROJECT PHASE LINE
- PROPERTY LINE
- SETBACK LINE
- SILT FENCE
- TOB — TOP OF BANK
- TOE — TOP OF SLOPE
- TURBIDITY BARRIER
- RIGHT-OF-WAY
- SIGN



- BUFFER
- CONCRETE
- CLEARING
- PERVIOUS CONCRETE
- DEMOLITION
- EARTH
- EXCAVATION AREA
- FILL AREA
- GRAVEL
- LITTORAL ZONE
- OPEN SAW CUT
- PAVER BRICK
- PROPOSED PAVEMENT
- REINFORCED CONCRETE/THICKEN SIDEWALK
- RIP-RAP
- SAND
- SIDEWALK
- TRUNCATED DOMES
- WETLAND

DRAINAGE LEGEND

- DRAINAGE FLOW ARROW
- MITERED END SECTION
- DRAINAGE INLET
- DRAINAGE MANHOLE
- YARD DRAIN
- CMP — CORRUGATED METAL PIPE (CMP)
- DIP — DUCTILE IRON PIPE (DIP)
- HDPE — HIGH DENSITY POLYETHYLENE PIPE (HDPE)
- RCP — REINFORCED CONCRETE PIPE (RCP)

PROFILE LEGEND

- PROPOSED SECTION
- EXISTING AREA SECTION

ABBREVIATIONS

BFP	BACK FLOW PREVENTER
CB	CATCH BASIN
CM	CONCRETE MONUMENT
DE	DRAINAGE EASEMENT
DM	DRAINAGE MANHOLE
DIP	DUCTILE IRON PIPE
ELEC	ELECTRICAL
EL	ELEVATION
EOP	EDGE OF PAVEMENT
EOW	EDGE OF WATER
FFE	FINISH FLOOR ELEVATIONS
FH	FIRE HYDRANT
FL	FIRE LINE
FM	FORCE MAIN
GM	GAS MAIN
HDPE	HIGH DENSITY POLYETHYLENE
HP	HIGH POINT
INV	INVERT
IQ	IRRIGATION QUALITY
IRC	IRON ROD & CAP
IRR	IRRIGATION LINE
LF	LINEAR FEET
LME	LAKE MAINTENANCE EASEMENT
ME	MATCH EXISTING
MES	MITERED END SECTION
MIN	MINIMUM
MH	MANHOLE
OC	ON CENTER
PC	POINT OF CURVATURE
PI	POINT OF INTERSECTION
PL	PROPERTY LINE
PT	POINT OF TANGENT
PVC	POLY VINYL CHLORIDE
RCP	REINFORCED CONCRETE PIPE
ROW	RIGHT-OF-WAY
RWM	RAW WATER MAIN
SAN	SANITARY SEWER
SW	SIDEWALK
TOB	TOP OF BANK
TOE	TOE OF SLOPE
TOW	TOP OF WALL
UGE	UNDER-GROUND ELECTRIC
UE	UTILITY EASEMENT
UGFO	UNDER-GROUND FIBER OPTICS
UGT	UNDER-GROUND TELEPHONE
WM	WATER MAIN

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CALL 48 HOURS BEFORE YOU DIG 811

(IN FEET)
1 inch = 20 ft.
20 0 20 40

VERTICAL DATUM NAVD 88

DRAWN: D.W. 3-5-2018
PROJECT: A0102
FILE: A0102-02.dwg

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LEGEND & ABBREVIATIONS

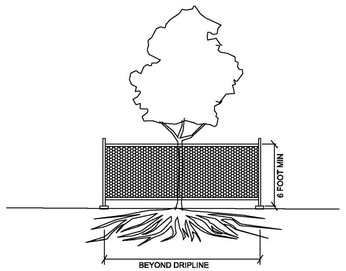
CONCHY JOE'S
JENSEN BEACH, FLORIDA

KENNETH M. RAU
LICENSE
No. 72738
Feb 17 2020
STATE OF FLORIDA
PROFESSIONAL ENGINEER

SHEET NO.
2

J:\A01 Ayers\A0102 - Conchy Joe's Expansion\DWG\DESIGN\A0102-02.dwg, PRINTED BY: FransiscoM ON Mon, Feb 17 2020

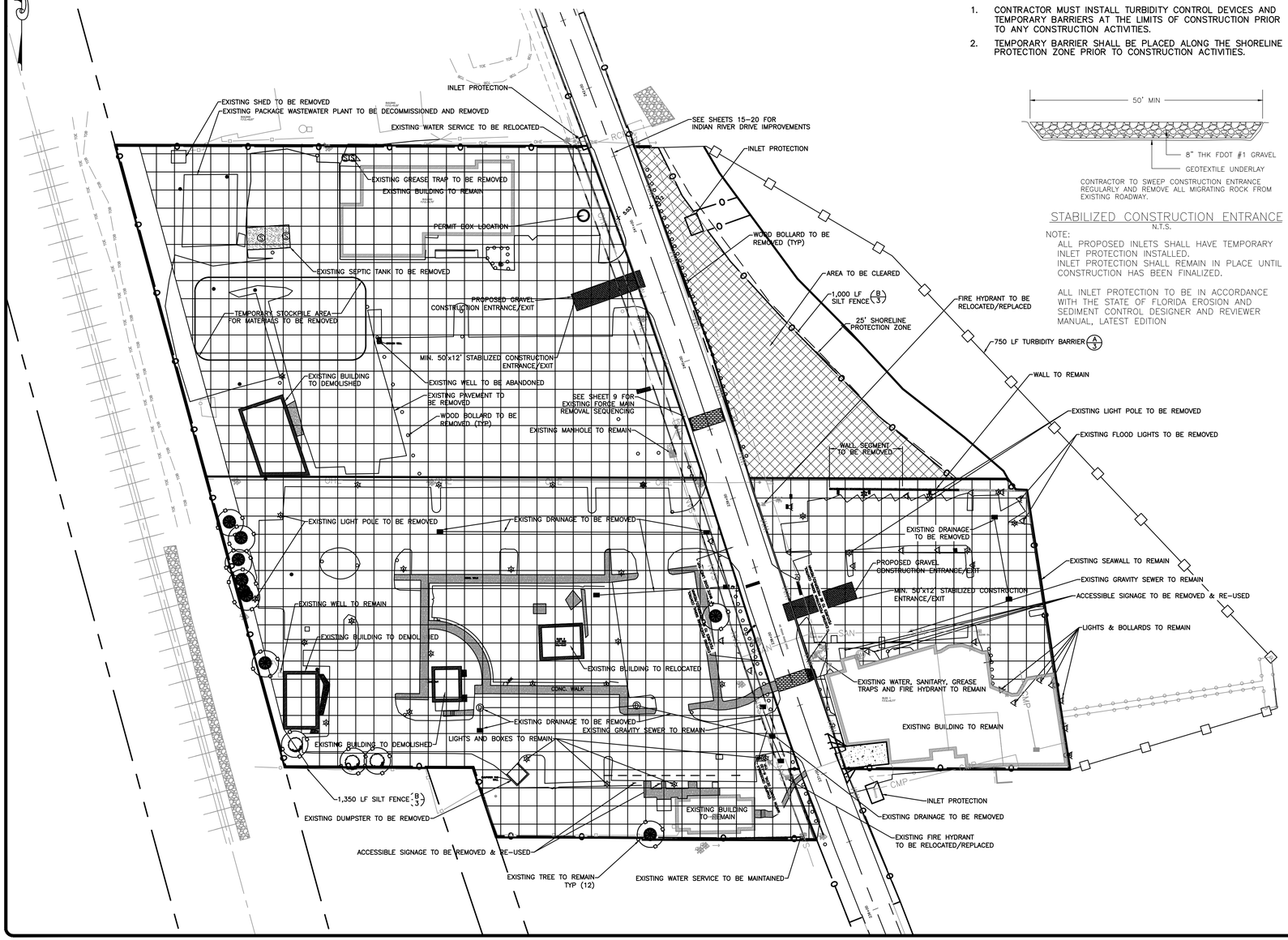
1. A MINIMUM OF ONE–FOURTH–INCH DIAMETER ROPE WHICH IS YELLOW OR ORANGE IN COLOR AND MADE OF NYLON OR POLY SHALL BE USED FOR PRESERVATION. THE ROPE IS TO BE ATTACHED TO A MINIMUM OF 2 × 2 WOODEN POLES, IRON REBAR, TWO INCHES OR GREATER PVC PIPE OR OTHER MATERIAL WITH PRIOR APPROVAL OF THE GROWTH MANAGEMENT DEPARTMENT. THE ROPE MUST BE A MINIMUM OF FOUR FEET OFF THE GROUND AND MAY NOT BE ATTACHED TO ANY VEGETATION.
2. DIAMETER OF PROTECTION ZONE SHOULD BE ONE FOOT FOR EACH INCH OF TRUNK DIAMETER BREAST HEIGHT OR 1/2 HEIGHT OF TREE, WHICHEVER IS GREATER. FOR 2–INCH CALIPER TREES OR SMALLER, THE PROTECTION ZONE SHALL BE 6 FOOT MINIMUM DIAMETER.
3. TEMPORARY FENCING (6 FT HIGH) SHALL BE PLACED AT THE DRIP LINE OF THE TREE TO BE SAVED. FENCE SHALL COMPLETELY ENCIRCLE THE TREE(S). TO INSTALL FENCE POSTS, AVOID DRIVING POSTS OR STAKES INTO MAJOR ROOTS.
4. DEAD TREES, SCRUB, OR UNDERGROWTH SHALL BE CUT FLUSH WITH ADJACENT GRAD. THERE WILL BE NO SOIL DISTURBANCE UNDER THE DRIP LINE OF THE TREES TO BE PRESERVED.
5. PLACE 6 INCHES OF BARK MULCH AT AREAS NOT PROTECTED BY BARRIER.
6. TREATMENT OF ROOTS EXPOSED DURING CONSTRUCTION: FOR ROOTS OVER 1 INCH IN DIAMETER DAMAGED DURING CONSTRUCTION, MAKE A CLEAN STRAIGHT CUT TO REMOVE DAMAGED PORTION OF ROOT. ALL EXPOSED ROOTS SHOULD BE TEMPORARILY COVERED WITH DAMP BURLAP AND COVERED WITH SOIL OR MULCH AS SOON AS POSSIBLE TO PREVENT DRYING.
7. NO EQUIPMENT OR MACHINERY SHALL BE USED WITHIN THE PROTECTION FENCE.WORK WITHIN THE PROTECTION ZONE SHALL BE DONE MANUALLY.
8. NO STOCKPILING OF MATERIALS, VEHICULAR TRAFFIC, OR STORAGE IS ALLOWED WITHIN THE LIMITS OF THE FENCING.
9. NO USE OF CONCRETE, PAINT, CHEMICALS, OR OTHER FOREIGN SUBSTANCES WITHIN TREE PROTECTION AREAS.
10. ALL BARRICADES MUST REMAIN IN PLACE FOR THE DURATION OF CONSTRUCTION.

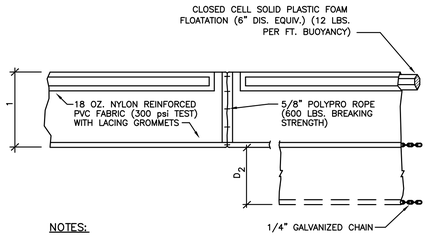


TREE PROTECTION
NOT TO SCALE

PLAN VIEW OF ROOTS

NOTES: TREE PROTECTION





NOTES:

D_1 = 5' STD. (SINGLE PANEL FOR DEPTHS 5' OR LESS).

D_2 = 5' STD. (ADDITIONAL PANEL FOR DEPTHS > 5')

CURTAIN TO REACH BOTTOM UP TO DEPTHS OF 10 FEET. TWO (2) PANELS TO BE USED FOR DEPTHS GREATER THAN 10 FEET UNLESS SPECIAL DEPTH CURTAINS SPECIFICALLY CALLED FOR IN THE PLANS OR AS DETERMINED BY THE ENGINEER.

TYPE I FLOATING TURBIDITY BARRIER (A/–)

GENERAL NOTES:

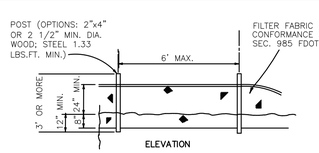
1. CONTRACTOR MUST INSTALL TURBIDITY CONTROL DEVICES AND TEMPORARY BARRIERS AT THE LIMITS OF CONSTRUCTION PRIOR TO ANY CONSTRUCTION ACTIVITIES.
2. TEMPORARY BARRIER SHALL BE PLACED ALONG THE SHORELINE PROTECTION ZONE PRIOR TO CONSTRUCTION ACTIVITIES.

CONTRACTOR TO SWEEP CONSTRUCTION ENTRANCE REGULARLY AND REMOVE ALL MIGRATING ROCK FROM EXISTING ROADWAY.

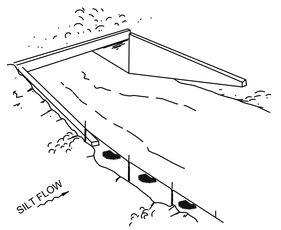
STABILIZED CONSTRUCTION ENTRANCE
N.T.S.

NOTE:
ALL PROPOSED INLETS SHALL HAVE TEMPORARY INLET PROTECTION INSTALLED.
INLET PROTECTION SHALL REMAIN IN PLACE UNTIL CONSTRUCTION HAS BEEN FINALIZED.

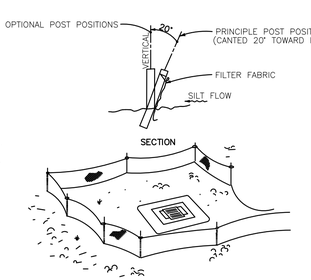
ALL INLET PROTECTION TO BE IN ACCORDANCE WITH THE STATE OF FLORIDA EROSION AND SEDIMENT CONTROL DESIGNER AND REVIEWER MANUAL, LATEST EDITION



TYPE III SILT FENCE



MODIFIED TYPE III SILT FENCE



MODIFIED TYPE III SILT FENCE PROTECTION AROUND DITCH BOTTOM INLETS.

SILT FENCE APPLICATIONS

1. TYPE III SILT FENCE TO BE USED AT MOST LOCATIONS. WHERE USED IN DITCHES, THE SPACING FOR TYPE III SILT FENCE SHALL BE IN ACCORDANCE WITH FLORIDA EROSION AND SEDIMENT CONTROL DESIGNER AND REVIEWER MANUAL (LATEST EDITION)
2. TYPE IV SILT FENCE TO BE USED WHERE LARGE SEDIMENT LOADS ARE ANTICIPATED. SUGGESTED USE IS WHERE FILL SLOPE IS 1:2 OR STEEPER AND LENGTH OF SLOPE EXCEEDS 25 FEET. AVOID USE WHERE THE DETAINED WATER MAY BACK INTO TRAVEL LANES OR OFF THE RIGHT OF WAY.
3. DO NOT CONSTRUCT SILT FENCE ACROSS PERMANENT FLOWING WATERCOURSES. SILT FENCES ARE TO BE AT UPLAND LOCATIONS AND TURBIDITY BARRIERS USED AT PERMANENT BODIES OF WATER.
4. WHERE USED AS SLOPE PROTECTION, SILT FENCE IS TO BE CONSTRUCTED ON 0% LONGITUDINAL GRADE TO AVOID CHANNELIZING RUNOFF ALONG THE LENGTH OF THE FENCE.

SILT FENCE (B/–)
PER FDOT INDEX #102

NOTE:
1. SEE FPL PLAN FOR UTILITY POLE RELOCATION PLAN.

2. EXISTING INDIAN RIVER DRIVE CROSSWALK LIGHTING & SIGNAGE SYSTEM TO BE PRESERVED.

3. SEE SHEETS 4 AND 5 FOR INDIAN RIVER DRIVE IMPROVEMENTS.

4. EXISTING DRAINAGE & EXFILTRATION IN CONCHY JOE'S RESTAURANT PARKING (EAST) TO BE REMOVED AS NECESSARY. OUTFALL STRUCTURE & WEIR TO REMAIN.

5. CONTRACTOR TO FIELD VERIFY, MARK & CONFIRM LIMITS OF CLEARING WITH ENGINEER PRIOR TO COMMENCEMENTS.

6. EXISTING SIGNAGE TO BE REUSED WHERE POSSIBLE.

7. DISTURBED AREAS WILL BE STABILIZED WITHIN 30 DAYS. STABILIZATION SHALL BE BY SEEDING OR SODDING.

8. AUTHORIZATION TO INSTALL EROSION CONTROL DEVICES & PRESERVE BARRICADES WILL BE GRANTED AT THE PRE–CONSTRUCTION MEETING. THIS AUTHORIZATION SHALL BE POSTED ON THE SITE. ITS LOCATION SHOWN ELSE WHERE ON THIS PAGE.

9. PROPERTY CORNERS SHALL BE LOCATED BY A LICENSED LAND SURVEYOR AND CLEARLY MARKED IN THE FIELD PRIOR TO THE ENGINEERING DEPARTMENT'S PRE–CONSTRUCTION MEETING FOR SITE DEVELOPMENT.

10. AUTHORIZATION TO INSTALL EROSION CONTROL DEVICES AND PRESERVE BARRICADES WILL BE DEVELOPMENT REVIEW STAFF REPORT PAGE 18 OF 38 GRANTED AT THE PRE–CONSTRUCTION MEETING. THIS AUTHORIZATION SHALL BE POSTED ON THE SITE, IN THE PERMIT BOX, ITS LOCATION SHOWN ELSEWHERE ON THIS PAGE.

11. NO ADDITIONAL LAND CLEARING SHALL COMMENCE UNTIL A SATISFACTORY INSPECTION OF THE REQUIRED EROSION CONTROL BARRICADES HAS BEEN OBTAINED.

12. ALL CONSTRUCTION BARRICADES AND SILT FENCES WILL REMAIN IN PLACE AND BE MONITORED FOR COMPLIANCE BY THE PERMIT HOLDER DURING THE PERMITTED DEVELOPMENT ACTIVITIES.'

13. PRIOR TO SCHEDULING A FINAL ENVIRONMENTAL INSPECTION FOR THE INFRASTRUCTURE, ALL BARRICADES AND EROSION CONTROL DEVICES SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR.'

LEGEND

CLEARING

DEMOLITION

SILT FENCE

TURBIDITY BARRIER

TREE TO BE PROTECTED

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CALL 48 HOURS BEFORE YOU DIG 811

(IN FEET)
1 inch = 40 ft.
80 40 0 40

VERTICAL DATUM NAVD 88

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PROJECT: A0102
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THE MILCOR GROUP, INC.
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HOBE SOUND, FL 33455
PH: (772)223–8850
FAX: (772) 223–8851
WWW.THEMILCORGROUP.COM
CERTIFICATE OF AUTHORIZATION: 28246

CLEARING, DEMOLITION, & EROSION CONTROL PLAN

CONCHY JOE'S
JENSEN BEACH, FLORIDA

KENNETH M RAU LICENSE No. 72738 Feb. 17, 2020 STATE OF FLORIDA PROFESSIONAL ENGINEER

SHEET NO.
3

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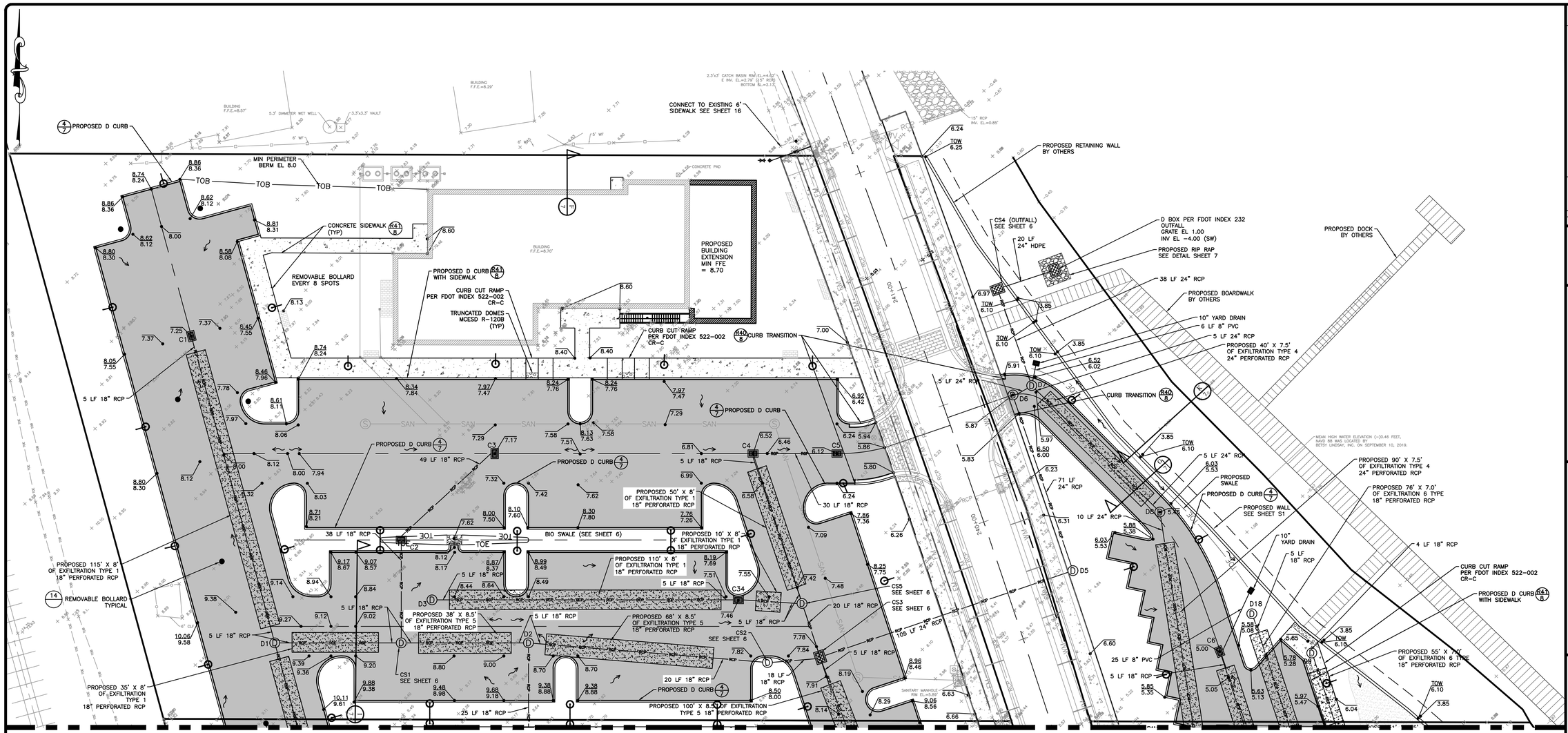

NOTE:

1. CATCH BASINS ADJACENT TO EXFILTRATION TO HAVE MIN 3' SUMP.
2. ALL CATCH BASINS TO HAVE MIN 18" SUMP.
3. ANY CHANGES TO THE FINISHED FLOOR ELEVATION MUST BE APPROVED BY THE ENGINEER.
4. RETAINING WALL ADJACENT TO SHORELINE PROTECTION ZONE SHALL BE CONSTRUCTED PRIOR TO FILLING OR GRADING EAST OF INDIAN RIVER DRIVE.

(N50/8) TYPE C INLET

C1-TYPE C BOTTOM (CAST IRON GRATE)
RIM EL 7.25
INV EL 1.50 (SE)

C2-TYPE C BOTTOM (RETICULINE GRATE)
RIM EL 7.95
INV EL 2.50 (NE)
INV EL 1.50 (S)

C3-TYPE C BOTTOM (CAST IRON GRATE)
RIM EL 7.17
INV EL 2.50 (SW)

C4-TYPE C BOTTOM (CAST IRON GRATE)
RIM EL 6.52
INV EL 1.50 (S)
INV EL -0.75 (E)

C5-TYPE C BOTTOM (CAST IRON GRATE)
RIM EL 6.12
INV EL -0.75 (W)

C6-TYPE C BOTTOM (CAST IRON GRATE)
RIM EL 5.00
INV EL 0.00 (S)

C34-TYPE C BOTTOM (CAST IRON GRATE)
RIM EL 7.46
INV EL 1.50 (E)
INV EL 1.50 (W)

(3/7) DRAINAGE MANHOLE

D1-DRAINAGE MANHOLE
RIM EL 9.43
INV EL 1.50 (N)
INV EL 1.50 (E)
INV EL 1.50 (S)

D2-DRAINAGE MANHOLE
RIM EL 8.75
INV EL 1.50 (W)
INV EL 1.50 (E)
INV EL 1.50 (S)

D3-DRAINAGE MANHOLE
RIM EL 8.54
INV EL 1.50 (E)

D5-DRAINAGE MANHOLE
RIM EL 6.42
INV EL 1.00 (N)
INV EL -2.25 (W)

D6-DRAINAGE MANHOLE
RIM EL 5.87
INV EL 1.00 (S)
INV EL 1.00 (NW)

D7-DRAINAGE MANHOLE
RIM EL 5.97
INV EL 0.00 (N)
INV EL 1.00 (SW)
INV EL 0.00 (SE)

D8-DRAINAGE MANHOLE
RIM EL 5.45
INV EL 0.00 (NW)
INV EL 0.00 (S)

D9-DRAINAGE MANHOLE
RIM EL 5.85
INV EL 0.00 (S)

D18-DRAINAGE MANHOLE
RIM EL 5.50
INV EL 0.00 (S)

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PAVING, GRADING, & DRAINAGE PLAN

CONCHY JOE'S

JENSEN BEACH, FLORIDA

KENNETH M. RAU LICENSE No. 72738 Feb 17 2020 STATE OF FLORIDA PROFESSIONAL ENGINEER

SHEET NO.

4

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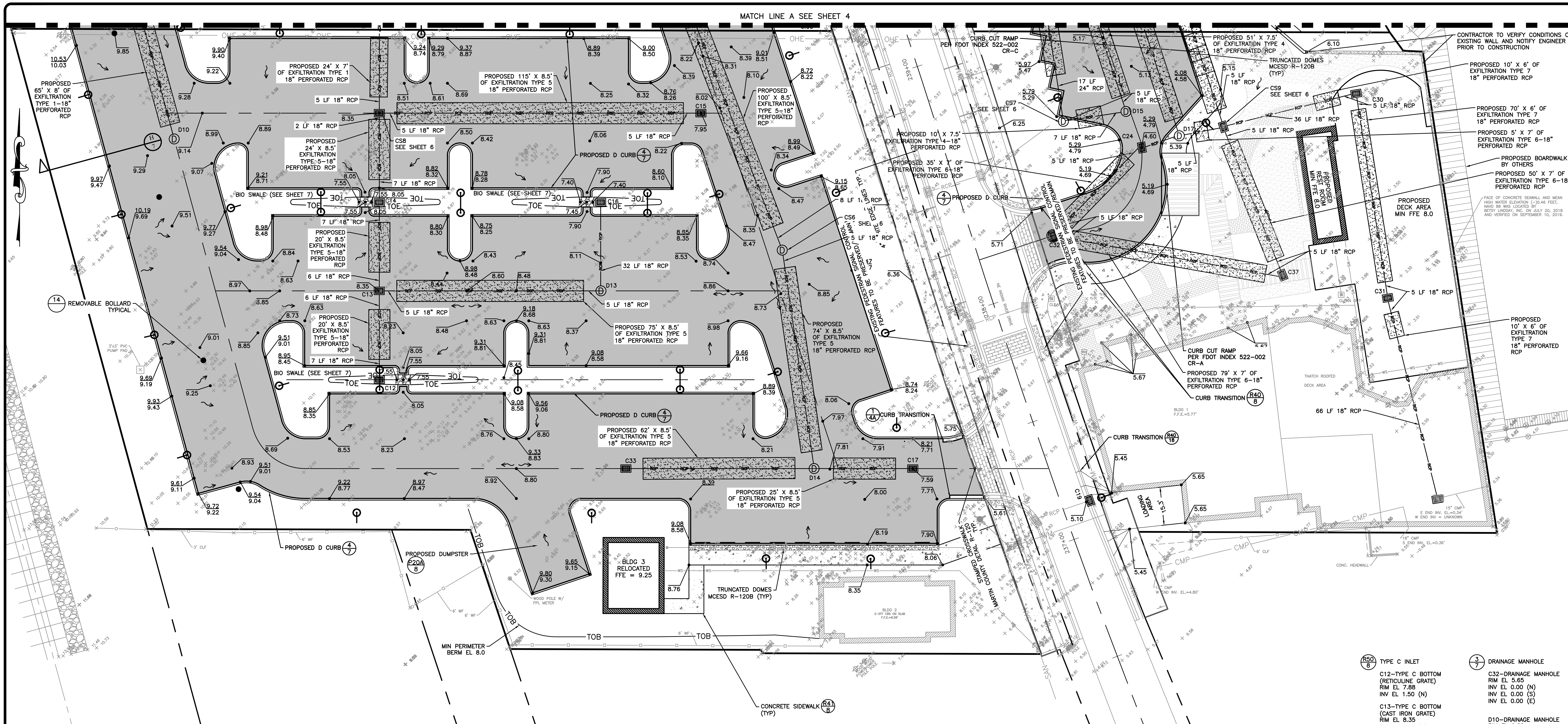

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R50/8 TYPE C INLET

C12–TYPE C BOTTOM
(RETICULINE GRATE)
RIM EL 7.88
INV EL 1.50 (N)

C13–TYPE C BOTTOM
(CAST IRON GRATE)
RIM EL 8.35
INV EL 1.50 (N)
INV EL 1.50 (S)
INV EL 1.50 (E)

C14–TYPE C BOTTOM
(RETICULINE GRATE)
RIM EL 7.88
INV EL 1.50 (N)
INV EL 1.50 (S)

C15–TYPE C BOTTOM
(CAST IRON GRATE)
RIM EL 7.95
INV EL 1.50 (W)

C16–TYPE C BOTTOM
(RETICULINE GRATE)
RIM EL 7.73
INV EL 2.50 (N)
INV EL 2.50 (S)

C17–TYPE C BOTTOM
(CAST IRON GRATE)
RIM EL 7.59
INV EL 1.50 (W)

C24–TYPE C BOTTOM
(CAST IRON GRATE)
RIM EL 4.60
INV EL 0.00 (E)
INV EL 0.00 (W)

C30–TYPE C BOTTOM
(CAST IRON GRATE)
RIM EL 3.40
INV EL 0.00 (W)
INV EL 0.00 (S)

C31–TYPE C BOTTOM
(CAST IRON GRATE)
RIM EL 4.00
INV EL 0.00 (N)
INV EL 0.00 (S)

C33–TYPE C BOTTOM
(CAST IRON GRATE)
RIM EL 8.38
INV EL 1.50 (E)

C37–TYPE C BOTTOM
(CAST IRON GRATE)
RIM EL 5.30
INV EL 0.00 (N)
INV EL 0.00 (W)

3/7 DRAINAGE MANHOLE

C32–DRAINAGE MANHOLE
RIM EL 5.65
INV EL 0.00 (N)
INV EL 0.00 (S)
INV EL 0.00 (E)

D10–DRAINAGE MANHOLE
RIM EL 9.22
INV EL 1.50 (N)

D13–DRAINAGE MANHOLE
RIM EL 8.19
INV EL 2.50 (N)
INV EL 1.50 (W)

D14–DRAINAGE MANHOLE
RIM EL 7.85
INV EL 1.50 (N)
INV EL 1.50 (E)
INV EL 1.50 (W)

D15–DRAINAGE MANHOLE
RIM EL 4.86
INV EL 1.00 (N)
INV EL 1.00 (W)

D17–DRAINAGE MANHOLE
RIM EL 5.37
INV EL 0.00 (N)
INV EL 0.00 (E)
INV EL 0.00 (W)

NO.	DATE	REVISION:	BY
8			
7			
6			
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FILE: BASE.dwg		

THE MILCOR GROUP, INC.

CIVIL ENGINEERS
10975 SE FEDERAL HIGHWAY
HOBE SOUND, FL 33455

PH: (772)223-8850
FAX: (772) 223-8851

WWW.THEMILCORGROUP.COM

CERTIFICATE OF AUTHORIZATION: 28246

PAVING, GRADING, & DRAINAGE PLAN

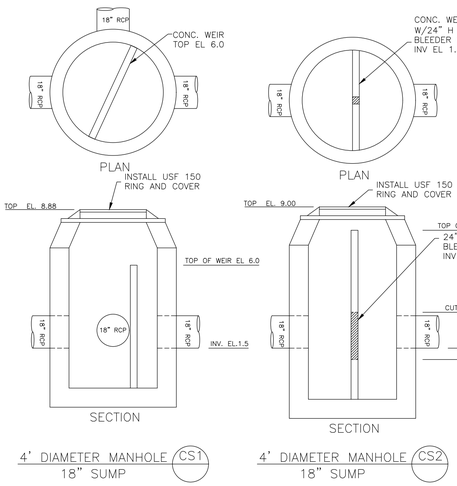
CONCHY JOE'S

JENSEN BEACH, FLORIDA

KENNETH M. RAU LICENSE No 27739 Feb 17 2020 STATE OF FLORIDA PROFESSIONAL ENGINEER

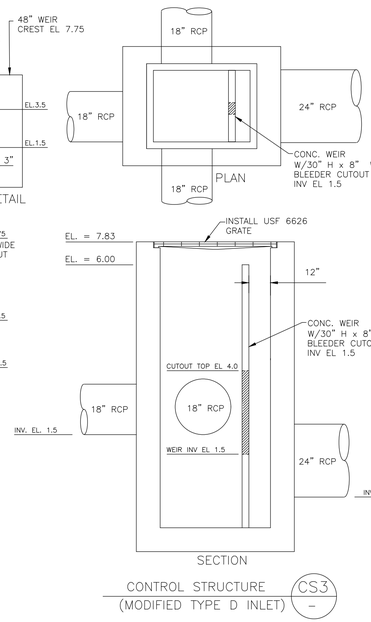
SHEET NO.

5



4' DIAMETER MANHOLE CS1
18" SUMP

4' DIAMETER MANHOLE CS2
18" SUMP



CONTROL STRUCTURE
(MODIFIED TYPE D INLET) CS3
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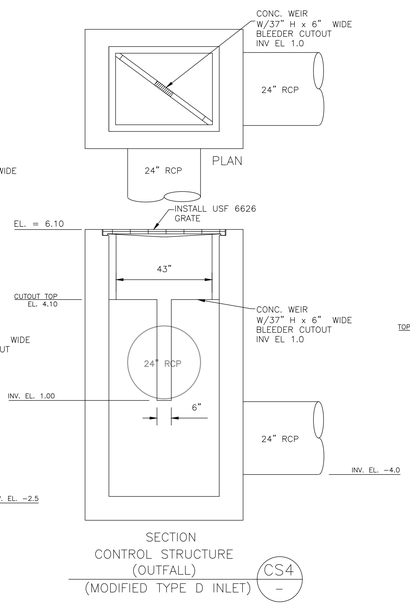

CONTROL STRUCTURE
(OUTFALL)
(MODIFIED TYPE D INLET) CS4
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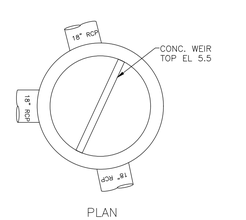
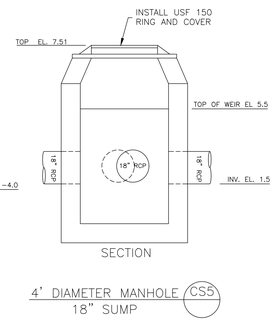
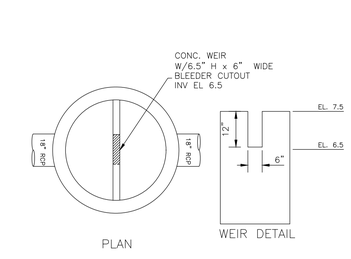
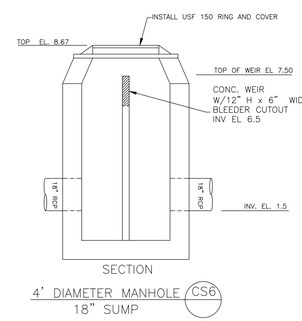


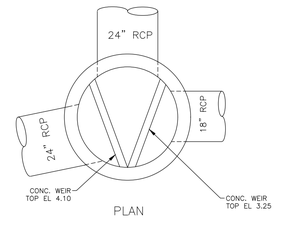


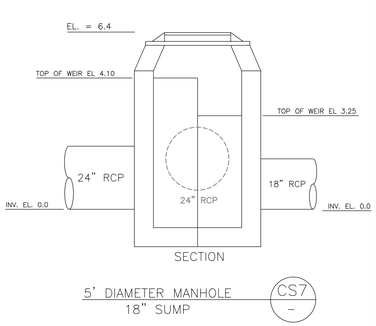
4' DIAMETER MANHOLE CS5
18" SUMP



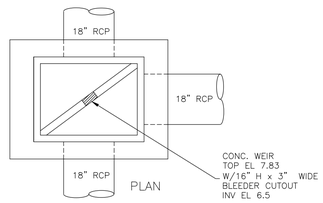


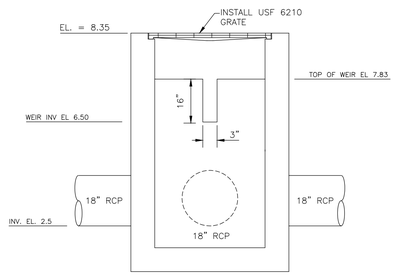
4' DIAMETER MANHOLE CS6
18" SUMP





5' DIAMETER MANHOLE CS7
18" SUMP





CONTROL STRUCTURE
(MODIFIED TYPE C INLET) CS8
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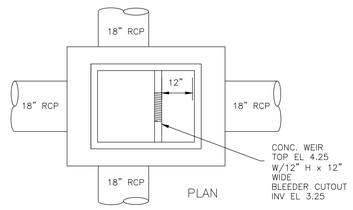

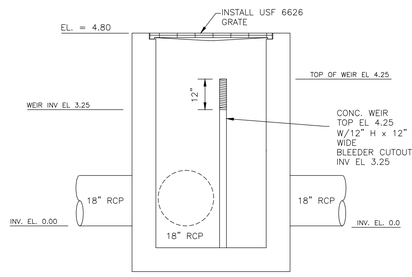

CONTROL STRUCTURE
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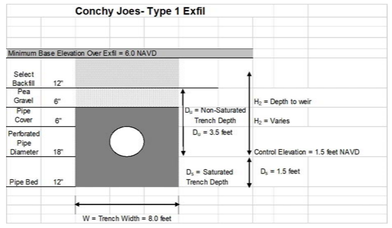

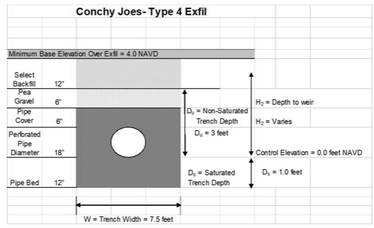

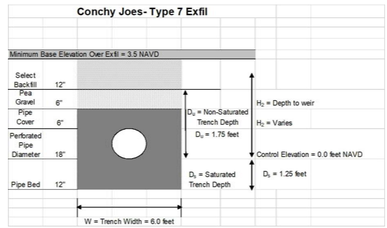

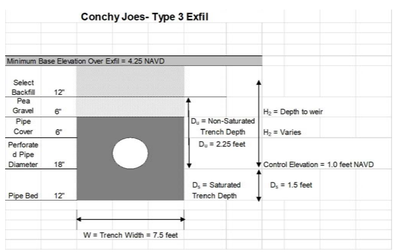

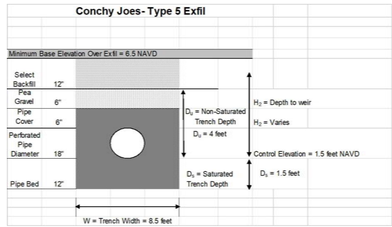

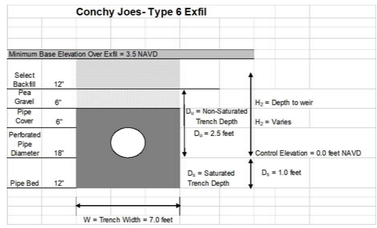

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2	1-8-20	REVISIONS PER MARTIN COUNTY	FM
3	12-10-19	PER MARTIN COUNTY COMMENTS	FM
4	9-25-19	PER REVISED MEAN HIGH WATER LINE (MHWL)	AT
5	8-20-19	PER MARTIN COUNTY COMMENTS	AT

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VERTICAL DATUM NAVD 88

DRAWN: D.W. 3-5-2018

PROJECT: A0102

FILE: BASE.dwg

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CONCHY JOE'S

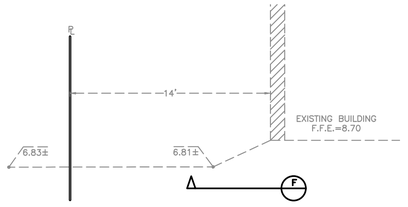
JENSEN BEACH, FLORIDA

KENNETH M. RAU
LICENSE
No. 72738
Feb. 17, 2020
STATE OF FLORIDA
PROFESSIONAL ENGINEER

SHEET NO.

6

J:\A01 Ayers\A0102 – Conchy Joe's Exponsion\DWG\DESIGN\BASE.dwg, PRINTED BY: FransiscoM ON Mon, Feb 17 2020



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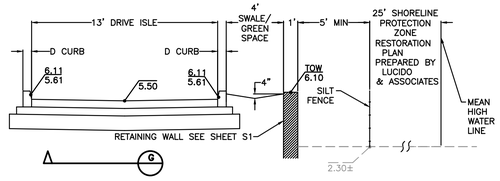

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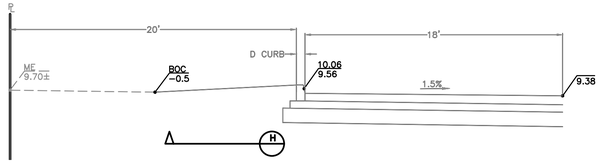

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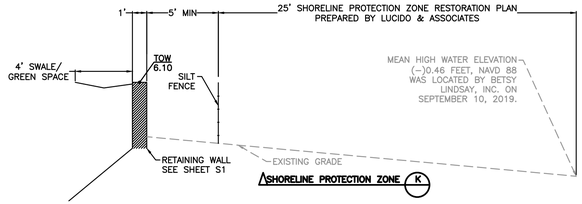
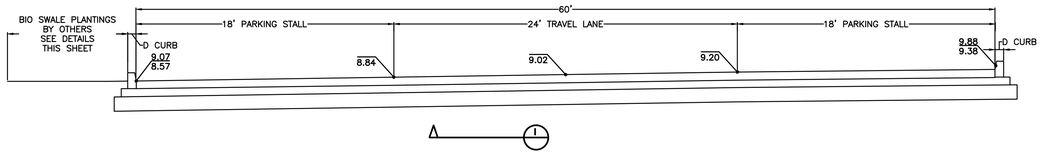


SHORELINE PROTECTION ZONE K



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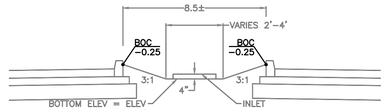
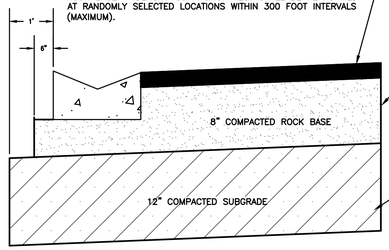


BIO SWALE SECTION J

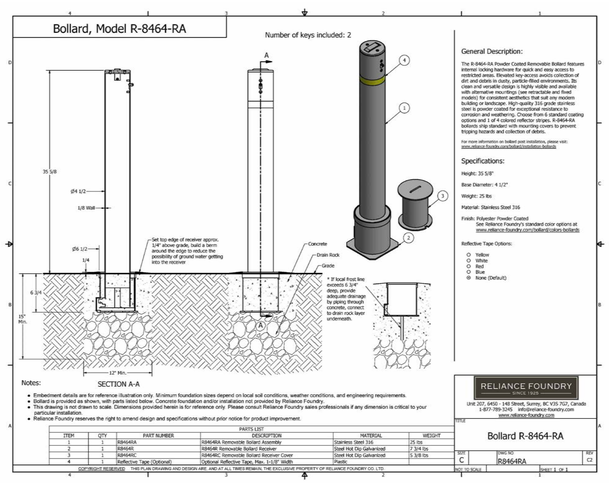
TESTING:

SUBGRADE – DENSITY COMPACTION TEST SHALL BE PERFORMED AT RANDOMLY SELECTED LOCATIONS WITHIN 200 FOOT INTERVALS (MAXIMUM).

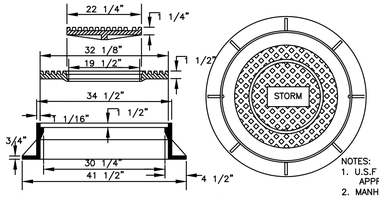
ROCK BASE – DENSITY COMPACTION TEST SHALL BE PERFORMED AT RANDOMLY SELECTED LOCATIONS WITHIN 300 FOOT INTERVALS (MAXIMUM).



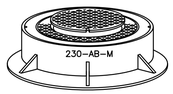
TYPICAL PAVEMENT SECTION INTERIOR ROADWAY WITH VALLEY GUTTER 13



REMOVABLE BOLLARD DETAIL 14

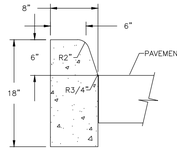


NOTE: U.S.F. #230-AB-M MANHOLE RING & DOUBLE COVER,



STORM DRAINAGE MANHOLE COVER

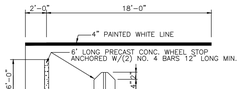
NOTES:
1. U.S.F #230-AB-M MANHOLE RING & DOUBLE COVER. APPROX. TOTAL WEIGHT 605 POUNDS.
2. MANHOLE COVER SHALL BE IMPRINTED WITH "STORM SEWER" AND WITH NOTES "CONFINED SPACE".
3. PAVED AREAS – SET FRAMES AT FINISED GRADE, UNPAVED AREAS – SET FRAMES AT FINISHED GRADE + 0.15.



GENERAL NOTES

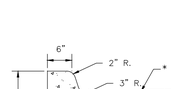
1. THE CONCRETE FOR CURBS SHALL BE COMPRESSIVE STRENGTH OF 3000 PSI.
2. ALL CURBS SHALL HAVE CONTRACTION JOINTS AND SHALL BE CONSTRUCTED AT INTERVALS NOT TO EXCEED 10'– 0" ON CENTERS FOR ALL CURBS.

D CURB 4



NOTE: SEE SITE PLAN FOR PARKING SPACE SIZE AND FOR WHEEL STOP LOCATIONS. PAINT WHEEL STOPS OSHA YELLOW

CONCRETE WHEEL STOP 5

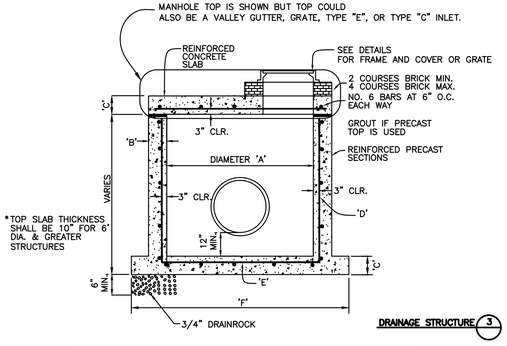


GENERAL NOTES

1. THE CONCRETE FOR CURBS SHALL BE DEPARTMENT OF TRANSPORTATION CLASS "I" CONCRETE, AND HAVE A COMPRESSIVE STRENGTH OF 3,000 PSI.
2. ALL CURBS SHALL HAVE CONTRACTION JOINTS AND SHALL BE CONSTRUCTED AT INTERVALS NOT TO EXCEED 10'– 0" ON CENTERS FOR ALL CURBS.

*WHEN USED ON THE HIGH SIDE OF ROADWAYS, THE CROSS SLOPE OF THE GUTTER SHALL MATCH THE CROSS SLOPE OF THE ADJACENT PAVEMENT. THE THICKNESS OF THE LIP SHALL BE 6", UNLESS OTHERWISE SHOWN ON PLANS.

F CURB 8



DRAINAGE STRUCTURE 3

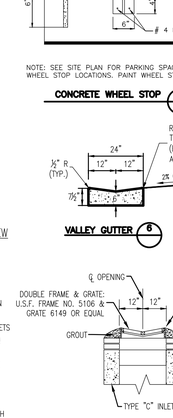
TYPE	'A'	'B'	'C'	'D'	'E'	'F'
4' DIA	4'-0"±	8"	8"	#5@12"C.C.E.W.	#5@12"C.C.E.W.	6'-4"±
5' DIA	5'-0"±	8"	8"	#5@12"C.C.E.W.	#5@12"C.C.E.W.	6'-4"±

VALLEY GUTTER INLET DETAIL – PLAN VIEW
N.T.S.

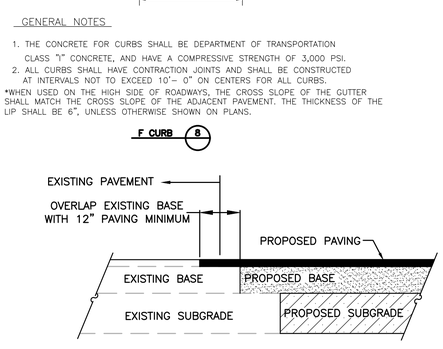
NOTES:
1. ALL INLET MATERIALS AND CONSTRUCTION NOT SHOWN HEREIN SHALL BE IN ACCORDANCE WITH FDOT STANDARD SPECIFICATION 425 AND FDOT STANDARD SERIES INDEX 200.
2. USE OF FDOT TYPE "9" CURB INLETS AND VALLEY GUTTER INLETS SHALL ONLY BE ACCEPTABLE ON LOCAL ROADWAYS AND WITHIN PARKING AREAS.
3. ALL INLET GRATES SHALL BEAR TRAFFIC LOADS AND SHALL BE CAST IRON.
4. ALL INLETS SHALL HAVE A MINIMUM SUMP OF 18", UNLESS OTHERWISE APPROVED.
5. ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI AT 28 DAYS.

2'-0" VALLEY GUTTER INLET 7

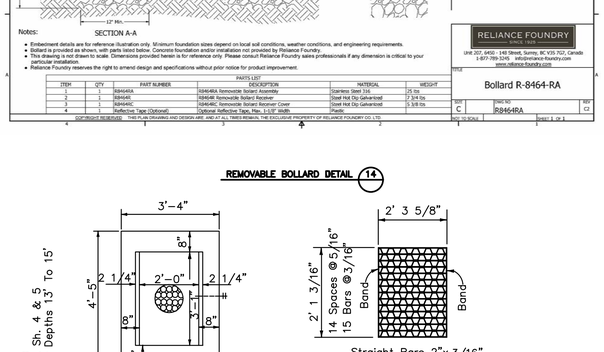
VALLEY GUTTER 6



VALLEY GUTTER INLET DETAIL
SECTION A-A N.T.S.

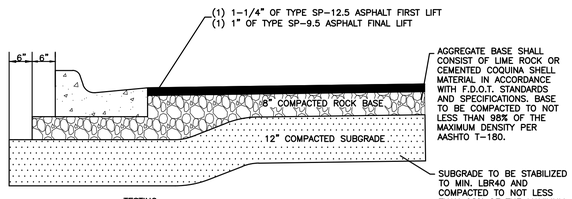


SAW CUT & BUTT JOINT 8



NOTE: FOR INLETS IN PAVED AND GRASSED AREAS, INSTALL USF 4160-6210 FRAME AND GRATE.
FOR INLETS IN CURB & GUTTER, INSTALL USF 5130-6168 FRAME AND GRATE.
FOR INLETS IN VALLEY GUTTER, INSTALL USF 5112-6143 FRAME AND GRATE.

TYPE-C INLET PER FDOT INDEX NO. 232 9



TESTING:

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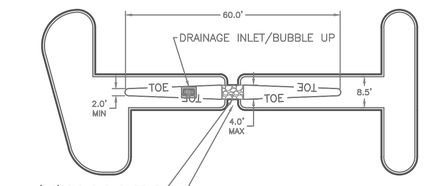
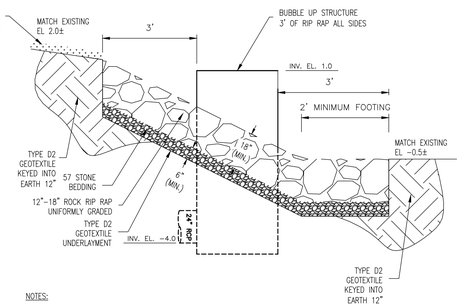
ROCK BASE – DENSITY COMPACTION TEST SHALL BE PERFORMED AT RANDOMLY SELECTED LOCATIONS WITHIN 300 FOOT INTERVALS (MAXIMUM)

TYPICAL PAVEMENT SECTION INTERIOR ROADWAY WITH F CURB 10



BIO SWALE DETAIL 11



NOTES:
1. RIP RAP SHALL HAVE 6" MINIMUM 57 STONE BEDDING OVER TYPE D2 GEOTEXTILE.
2. RIP RAP SHALL BE COQUINA ROCK (MINIMUM SPECIFIC GRAVITY ≥ 2.3) UNIFORMLY GRADED AND TIGHTLY INTERLOCKED
3. TYPE D2 GEOTEXTILE SHALL BE KEYED INTO THE NATURAL EARTH AT TOP OF BANK AND TOE OF SLOPE A MINIMUM OF 12"

RIP RAP DETAIL 12

NO.	DATE:	REVISION:	BY
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5	8-20-19	PER MARTIN COUNTY COMMENTS	AT

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JENSEN BEACH, FLORIDA

KENNETH M. RAU LICENSE No. 72738 Feb. 17, 2020 STATE OF FLORIDA PROFESSIONAL ENGINEER

SHEET NO.
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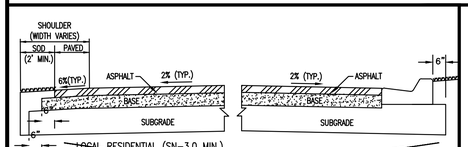
J:\A01 Ayers\A0102 – Conchy Joe's Expansion\DWG\DESIGN\BASE.dwg, PRINTED BY: FransiscoM ON Mon, Feb 17 2020



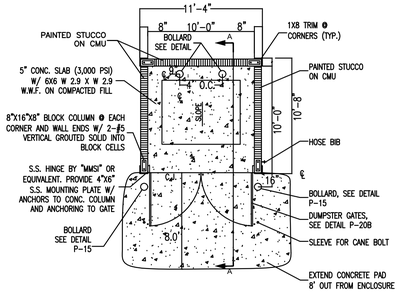
LOCAL RESIDENTIAL (SN-3.0 MIN.)
MIN. E.O.P. ELEVATION - PEAK STAGE OF 10-YR / 24-HR STORM EVENT
- SURFACE COURSE: 1½" TYPE SP-9.5 ASPHALTIC CONCRETE
- BASE COURSE: ~~OPTIONAL~~ BASE GROUP 6 PER FDOT FLEXIBLE PAVEMENT DESIGN MANUAL TABLE 5.6
- SUBGRADE: 12" COMPACTED OR STABILIZED SUBGRADE (LBR-40)

COLLECTOR & LOCAL COMMERCIAL/INDUSTRIAL (SN-3.5 MIN.)
MIN. E.O.P. ELEVATION - PEAK STAGE OF 10-YR / 24-HR STORM EVENT (MINOR)
MIN. E.O.P. ELEVATION - PEAK STAGE OF 25-YR / 24-HR STORM EVENT (MAJOR)
- SURFACE COURSE 1½" TYPE SP-12.5 ASPHALTIC CONCRETE (1ST LIFT)
  1" TYPE SP-9.5 ASPHALTIC CONCRETE (2ND LIFT)
- BASE COURSE: OPTIONAL BASE GROUP 6 PER FLEXIBLE PAVEMENT DESIGN MANUAL TABLE 5.6
- SUBGRADE: 12" COMPACTED OR STABILIZED SUBGRADE (LBR-40)

ARTERIAL (SN-4.0 MIN.)
MIN. E.O.P. ELEVATION - PEAK STAGE OF 25-YR / 72-HR STORM EVENT
- SURFACE COURSE 2" TYPE S-1 OR SP-12.5 ASPHALTIC CONCRETE (1ST LIFT)
  1" TYPE SP-9.5 ASPHALTIC CONCRETE (2ND LIFT)
- BASE COURSE: OPTIONAL BASE GROUP 9 PER FLEXIBLE PAVEMENT DESIGN MANUAL TABLE 5.6
- SUBGRADE: 12" COMPACTED OR STABILIZED SUBGRADE (LBR-40)

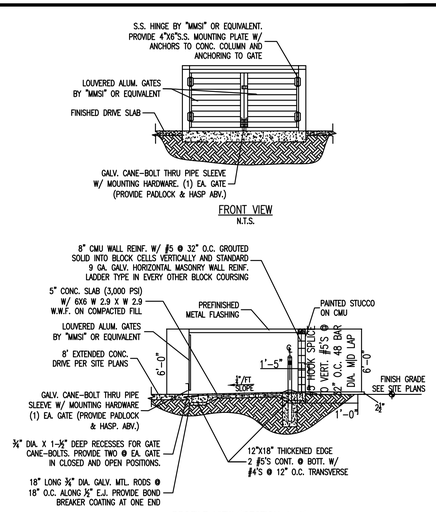
NOTES:
1. SHOULDER DESIGN:
   - SURFACE COURSE: SAME AS TRAVEL LANE SURFACE COURSE
   - BASE COURSE: OPTIONAL BASE GROUP 4 PER FDOT FLEXIBLE PAVEMENT DESIGN MANUAL TABLE 5.6
2. STRUCTURAL NUMBER (SN) PER FDOT STANDARDS (REFER TO FDOT FLEXIBLE PAVEMENT DESIGN MANUAL).
3. SUBSTITUTIONS MAY BE APPROVED BY MARTIN COUNTY, PROVIDED MINIMUM SN IS DEMONSTRATED.
4. ASPHALT MIX SHALL NOT CONTAIN MORE THAN 30% RECLAIMED ASPHALT PAVEMENT (R.A.P.)
5. ALL MATERIAL USED WITHIN THE ROADWAY MUST MEET FDOT SPECIFICATIONS AND BE SUPPLIED FROM A FDOT CERTIFIED MINING OPERATION AND ASPHALT PLANT.
6. A MINIMUM OF TWO DENSITY TESTS SHALL BE TAKEN FOR EACH SIX (6) INCH LIFT OF SUB GRADE AND BASE. WHEN THE SPECIFIED COMPACTED BASE IS GREATER THAN SIX AND ONE-HALF (6 ½") INCHES THE BASE SHALL BE CONSTRUCTED IN TWO OR MORE COURSES. PROCTORS FOR MATERIALS USED IN BACK-FILLING SHALL BE OBTAINED BY A CERTIFIED LABORATORY. DENSITY TESTS SHALL BE CONDUCTED BY A CERTIFIED LABORATORY. THE PERCENTAGE OF MAXIMUM DENSITY REQUIRED SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS. A COPY OF ALL COMPLETED AND ACCEPTED DENSITY TESTS SHALL BE FURNISHED TO THE COUNTY ENGINEER'S OFFICE PRIOR TO FINAL INSPECTION.
7. CRUSHED CONCRETE MAY NOT BE USED WITHIN COUNTY-MAINTAINED ROADWAY.
8. ANY IN-LINE PARKING DEFICIENCIES SHALL BE ADDRESSED IN ACCORDANCE TO FDOT SPECIFICATION SECTION 330.

MARTIN COUNTY ENGINEERING - STANDARD DETAILS	DETAIL
FLEXIBLE PAVEMENT	R-10
	DATE: 04/23/19



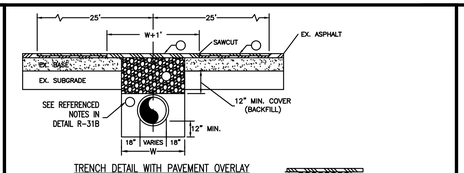
PLAN VIEW
N.T.S.

MARTIN COUNTY ENGINEERING - STANDARD DETAILS	DETAIL
DUMPSTER ENCLOSURE	P-20A
	DATE: 04/23/19

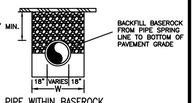


PROFILE VIEW (SECTION A-A)
N.T.S.

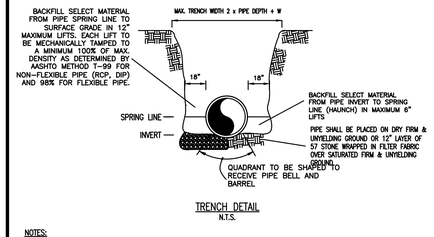
MARTIN COUNTY ENGINEERING - STANDARD DETAILS	DETAIL
DUMPSTER ENCLOSURE	P-20B
	DATE: 04/23/19



TRENCH DETAIL WITH PAVEMENT OVERLAY
N.T.S.



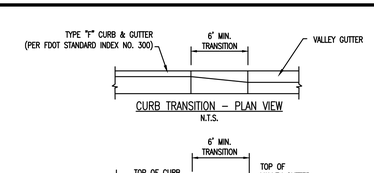
PIPE WITHIN BASEROCK
N.T.S.

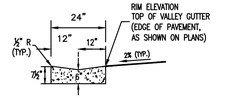


TRENCH DETAIL
N.T.S.

NOTES:
SEE SPECIFICATIONS & NOTES ON DETAIL R-31B

MARTIN COUNTY ENGINEERING - STANDARD DETAILS	DETAIL
TYPICAL OPEN CUT TRENCH	R-31A
	DATE: 04/23/19





VALLEY GUTTER
N.T.S.

NOTES:
1. FDOT TYPE "D" CURB SHALL NOT BE ACCEPTABLE FOR THE OUTSIDE OF A TRAVEL LANE.
2. ALL CURB, CURB AND GUTTER MATERIALS AND CONSTRUCTION NOT SHOWN HEREIN SHALL BE IN ACCORDANCE WITH APPLICABLE FDOT STANDARD SPECIFICATIONS 520 AND FDOT STANDARD PLANS INDEX 520-001.
3. A DESIRED 8 FEET SHALL BE MAINTAINED BETWEEN EDGE OF TRAVEL LANE AND SIDEWALK WHERE CURB AND GUTTER DOES NOT EXIST (MINIMUM SHALL BE 4.5 FEET, UNLESS OTHERWISE APPROVED BY THE COUNTY ENGINEER).

MARTIN COUNTY ENGINEERING - STANDARD DETAILS	DETAIL
CURB & GUTTER	R-40
	DATE: 04/23/19

NO.	DATE:	REVISION:	BY
4	2-17-20	PER MARTIN COUNTY UTILITY COMMENTS	FM
3	1-8-20	REVISIONS PER MARTIN COUNTY	FM
2	12-10-19	PER MARTIN COUNTY COMMENTS	FM
1	9-25-19	PER REVISED MEAN HIGH WATER LINE (MHWL)	AT
0	8-20-19	PER MARTIN COUNTY COMMENTS	AT

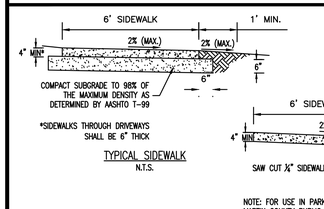
CALL 48 HOURS BEFORE YOU DIG 811

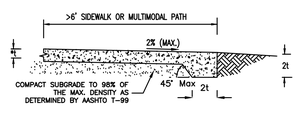
VERTICAL DATUM NAVD 88
DRAWN: D.W. 3-5-2018
PROJECT: A0102
FILE: BASE.dwg

THE MILCOR GROUP, INC.
CIVIL ENGINEERS
10975 SE FEDERAL HIGHWAY
HOBE SOUND, FL 33455
PH: (772)223-8850
FAX: (772) 223-8851
WWW.THEMILCORGROUP.COM
CERTIFICATE OF AUTHORIZATION: 28246

PAVING, GRADING, & DRAINAGE DETAILS

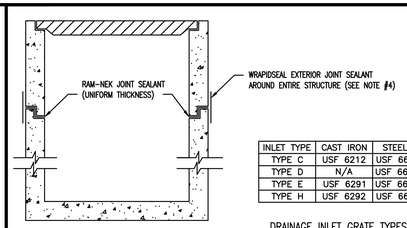
CONCHY JOE'S
JENSEN BEACH, FLORIDA





NOTES:
1. SIDEWALK MATERIALS AND CONSTRUCTION SHOWN HEREIN SHALL BE IN ACCORDANCE WITH APPLICABLE FDOT STANDARD SPECIFICATIONS 522 AND FDOT STANDARD PLANS INDEX 522.
2. FIBER-REINFORCED CONCRETE FOR CURBS AND SIDEWALKS SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI AT 28 DAYS WITH A WATER TO CEMENT RATIO NOT MORE THAN 0.53 (LB/LB).
3. THICKENED EDGE SHALL CONTAIN APPLICABLE SUBGRADE COMPACTED TO 98% OF MAXIMUM DRY DENSITY (AASHTO T-99)
4. A DESIRED 8 FEET SHALL BE MAINTAINED BETWEEN EDGE OF TRAVEL LANE AND SIDEWALK WHERE CURB AND GUTTER DOES NOT EXIST (MINIMUM SHALL BE 4.5 FEET, UNLESS OTHERWISE APPROVED BY THE COUNTY ENGINEER).

MARTIN COUNTY ENGINEERING - STANDARD DETAILS	DETAIL
SIDEWALK	R-41
	DATE: 04/23/19



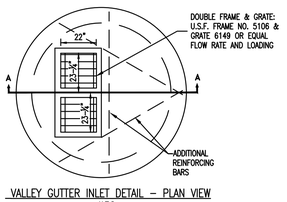
DRAINAGE INLET STRUCTURE
N.T.S.

INLET TYPE	CAST IRON	STEEL*
TYPE C	USF 6212	USF 6611
TYPE D	N/A	USF 6626
TYPE E	USF 6291	USF 6616
TYPE H	USF 6292	USF 6621

DRAINAGE INLET GRATE TYPES
*SEE NOTE #9

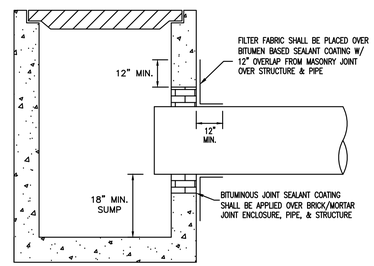
NOTES:
1. ALL INLET MATERIALS AND CONSTRUCTION NOT SHOWN HEREIN SHALL BE IN ACCORDANCE WITH FDOT STANDARD SPECIFICATION 425 AND FDOT STANDARD PLANS INDEX SERIES 425.
2. USE OF FDOT TYPE "9" CURB INLETS AND VALLEY GUTTER INLETS SHALL ONLY BE ACCEPTABLE ON LOCAL ROADWAYS AND WITHIN PARKING AREAS.
3. USE OF FDOT TYPE "10" CURB INLETS IS NOT ACCEPTABLE AT ANY LOCATION UNLESS APPROVED BY COUNTY ENGINEER.
4. INLET SHALL BE 1-PIECE MONOLOTHIC. INLETS THAT REQUIRE TWO PIECES AS REQUIRED BY LOAD CONSTRAINTS ARE TO CONTAIN SEALED KEY WAYS WITH RAM-NEK ASPHALTIC SEALANT AND EXTERIOR JOINT SEALANT WITH WRAPIDSEAL OR APPROVED EQUIVALENT. ANY PROPOSED 2-PIECE STRUCTURE SHALL BE APPROVED BY THE COUNTY ENGINEER.
5. ALL INLETS SHALL HAVE A MINIMUM SUMP OF 18", UNLESS OTHERWISE APPROVED BY THE COUNTY ENGINEER.
6. DITCH BOTTOM INLETS SHALL NOT HAVE A SEPARATED TOP SLAB UNLESS OTHERWISE APPROVED BY THE COUNTY ENGINEER.
7. ALL INLETS SHALL BE PLACED OVER DRY, FIRM AND UNYIELDING MATERIAL OR IN ACCORDANCE WITH STANDARD DETAIL R-31A TYPICAL TRENCH DETAIL.
8. DITCH BOTTOM INLETS SHALL HAVE ANGLE IRON IN THE GRATE RECESSES TO ACCOMMODATE H-20 LOADING.
9. ALL INLET GRATES SHALL BEAR TRAFFIC LOADS AND SHALL BE CAST IRON IF APPLICABLE, OTHERWISE INLET GRATES SHALL BE HOT-DIPPED GALVANIZED STEEL.

MARTIN COUNTY ENGINEERING - STANDARD DETAILS	DETAIL
LOCAL ROAD INLET	R-50
	DATE: 04/23/19



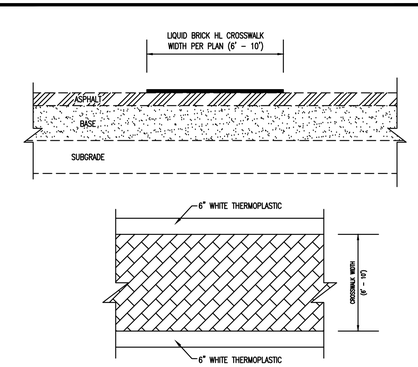
VALLEY GUTTER INLETS:
1. ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI AT 28 DAYS.
2. KEY CUT IS REQUIRED WITH PRECAST TOPS ONLY. IF TOP SLAB IS CAST IN PLACE WITHOUT KEYWAY, 12" LONG NO. 4 REBAR DOWELS SHALL BE DRILLED AND EPOXIED AT 12" O.C. TO SECURE TOP SLAB TO SIDE WALLS.
3. CENTERLINE OF OPENING SHALL BE OFFSET FROM CENTERLINE OF STRUCTURE.
4. GRATE & MANHOLE RINGS SHALL BE GROUTED IN PLACE.
5. GRATE & MANHOLE SEAT, GROUT, BRICKS, AND STRUCTURE SHALL BE CONTINUOUSLY ENCAPSULATED WITH WRAPIDSEAL JOINT SELAER

MARTIN COUNTY ENGINEERING - STANDARD DETAILS	DETAIL
VALLEY GUTTER INLET	R-51
	DATE: 04/23/19



NOTES:
1. ALL INLET MATERIALS AND CONSTRUCTION NOT SHOWN HEREIN SHALL BE IN ACCORDANCE WITH FDOT STANDARD SPECIFICATION 425 AND FDOT STANDARD PLANS INDEX SERIES 425.
2. DRAINAGE STRUCTURE-PIPE CONNECTION MASONRY JOINT SHALL BE FILLED WITH MIXTURE OF APPROVED BRICK AND TYPE I AND/OR II CONCRETE MORTAR.
3. ALL MASONRY JOINT SEAL BRICK OR WALL MATERIAL UNIT SHALL BE SATURATED BEFORE GROUT SEALING.
4. ALL MASONRY JOINT CONCRETE MORTAR SHALL BE TYPE I AND/OR II PREMIXED SILICA SAND-PORTLAND CEMENT (3:1 MAX). NO MIXING OF SAND-CEMENT IS PERMITTED ON SITE UNLESS APPROVED BY THE COUNTY ENGINEER.

MARTIN COUNTY ENGINEERING - STANDARD DETAILS	DETAIL
PIPE - STRUCTURE CONNECTION	R-60
	DATE: 04/23/19



NOTES:
1. THE STAMPED APPLICATION SHALL BE AN FDOT APPROVED LIQUID BRICK- HF W/ NATURA COLORED AGGREGATE WITH A HIGH FRICTION SURFACING SYSTEM COMPRISED OF A THERMOSETTING MODIFIED EPOXY COMPOUND MANUFACTURED BY ATLANTIC PAVING COMPANY INC., OR APPROVED EQUAL.
2. CROSSWALK EPOXY-AGGREGATE COMPOUND MAT MUST HAVE PARALLEL 12" WHITE STRIPING ON BOTH SIDES OF PATTERN OR 12" WHITE THERMOPLASTIC ON ADJACENT ASPHALT.
3. SUBSTITUTION REQUESTS MUST BE SUBMITTED AND APPROVED BY COUNTY ENGINEER BEFORE APPLICATION.

MARTIN COUNTY ENGINEERING - STANDARD DETAILS	DETAIL
CROSSWALK (STAMPED)	R-120B
	DATE: 04/23/19

KENNETH M. RAU LICENSE No. 72738 Feb. 17, 2020 STATE OF FLORIDA PROFESSIONAL ENGINEER

SHEET NO.
8

J:\A01 Ayers\A0102 - Conchy Joe's Expansion\DWG\DESIGN\BASE.dwg, PRINTED BY: FransiscoM ON Mon, Feb 17 2020

NOTES:
1. CONTRACTOR TO FIELD VERIFY LOCATION, SIZE AND DEPTH OF EXISTING SANITARY SEWER PIPE.
2. 6" SANITARY SEWER SLOPE 1% MIN.
3. MIN PIPE VERTICAL SEPARATION 1.0
4. SEE DETAIL SHEETS FOR MORE INFORMATION.
5. OUTSIDE OF FORCE MAIN TO BE 3' FROM EDGE OF EXFILTRATION TRENCH.
6. 2" AND 6" FORCE MAIN: 2' MIN HORIZONTAL SEPARATION WITH 30"–48" COVER.
7. NO TREES WITHIN 5' OF ANY FORCE MAIN.
8. EXISTING 6" FORCE MAIN MAY BE TAKEN OUT OF SERVICE ONCE 2" FORCE MAIN IS COMPLETED, NEW 6" FORCE MAIN TO BE INSTALLED PRIOR TO PROJECT COMPLETION.

RELOCATE EXISTING WATER METER, BACKFLOW PREVENTER AND WATER SERVICE. REPLACE METER IF REQUIRED.

SEE INSET A

PROPOSED 6" 45° BEND
CONNECT TO EXISTING 6" FM

RELOCATED WATER METER, BACKFLOW PREVENTER AND WATER SERVICE

REMOVE 200 LF EXISTING 6" FM AFTER PROPOSED 2" FM IS CONSTRUCTED AND IN SERVICE. 6" FM TO BE REMOVED DURING CONSTRUCTION OF INDIAN RIVER DRIVE IMPROVEMENTS.

508 LF 6" FM
C900 DR–18

CONTRACTOR TO FIELD VERIFY LOCATION OF EXISTING 2" AND 6" FM

216 LF 2" FM
HDPS IPS DR–11

6" SEWER SERVICE (TYP)

161 LF 8" SDR–26 @ 0.44%

2.18 BOTTOM 8" SAN
0.96 TOP 18" RCP
1.22 SEPARATION

PROPOSED 6" X 2" REDUCER

CONNECT TO EXISTING FM SEE INSET B

104 LF 8" SDR–26 @ 0.44%

1.81 BOTTOM 8" SAN
0.00 TOP 24" RCP
1.81 SEPARATION

39 LF 8" SDR–26 @ 0.44%

CORE EXISTING MANHOLE–
INV. EL. 1.54 (W)
CONTRACTOR TO REPAIR & INSTALL BENCHING AS NECESSARY

CORE EXISTING MANHOLE–
INV. EL. 2.19 (E)
CONTRACTOR TO REPAIR & INSTALL BENCHING AS NECESSARY

0.79 BOTTOM 18" RCP
0.11 TOP EXISTING 6" SAN SERVICE
0.68 SEPARATION

1.79 BOTTOM 18" PERFORATED RCP
0.00 TOP 24" RCP
1.81 SEPARATION

1.43 BOTTOM 6" WM
0.00 TOP 24" RCP
1.43 SEPARATION

EXISTING FIRE HYDRANT TO BE RELOCATED/REPLACED

3.71 BOTTOM 6" WM
2.25 TOP 24" RCP
1.46 SEPARATION

EXISTING FIRE HYDRANT TO BE RELOCATED/REPLACED

6" SEWER SERVICE (TYP)

APPROXIMATE LOCATION OF EXISTING SANITARY SEWER SERVICE

CONNECT TO EXISTING CLEANOUT GRAVITY SANITARY SERVICE SLOPE 1% MIN

146 LF 1" WATER SERVICE

71 LF 1" WATER SERVICE TO DOCK
SEE DOCK PLANS WATER SERVICE EXTENSION

CONNECT TO EXISTING BACKFLOW PREVENTER AND METER

CONTRACTOR TO FIELD VERIFY LOCATION AND DEPTH OF EXISTING GRAVITY SEWER LINE

CONTRACTOR TO FIELD VERIFY LOCATION OF EXISTING 6" GATE VALVE CONNECT TO EXISTING 6" GATE VALVE

162 LF 1" WATER SERVICE

CONNECT TO EXISTING BACKFLOW PREVENTER AND METER

SINGLE WATER SERVICE

(12/13) G1 1200 GALLONS
TOP EL 8.50
INV EL 5.45 (N)
INV EL 5.45 (S)

G2 1200 GALLONS
TOP EL 8.50
INV EL 5.35 (NE)
INV EL 5.35 (SW)

G3 1200 GALLONS
TOP EL 8.50
INV EL 5.25 (NE)
INV EL 5.25 (SW)

(11/13) CO1
RIM EL 8.50
INV EL 5.50

CO2
RIM EL 8.50
INV EL 5.40

CO3
RIM EL 8.50
INV EL 5.30

CO4
RIM EL 8.50
INV EL 5.20

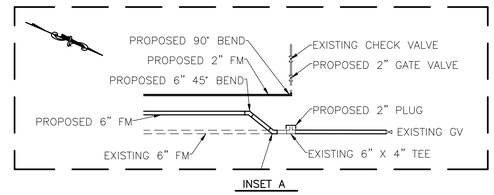
CO5
RIM EL 8.50
INV EL 5.50

CO6
RIM EL 9.10
INV EL 4.46

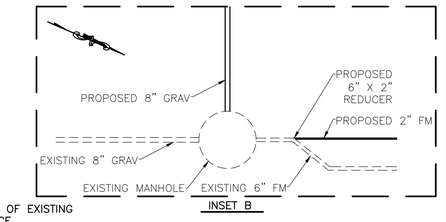
(6/12) MH1
RIM EL 7.76
INV EL 3.09 (E)

MH2
RIM EL 6.65
INV EL 2.38 (W)
INV EL 2.28 (SE)

(7/12) MH3
RIM EL 8.06
INV EL 1.82 (NW)
INV EL 1.72 (E)



INSET A



INSET B

NO.	DATE:	REVISION:	BY
4	2–17–20	PER MARTIN COUNTY UTILITY COMMENTS	FM
3	1–8–20	REVISIONS PER MARTIN COUNTY	FM
2	12–10–19	PER MARTIN COUNTY COMMENTS	FM
1	9–25–19	PER REVISED MEAN HIGH WATER LINE (MHWL)	AT
0	8–20–19	PER MARTIN COUNTY COMMENTS	AT

CALL 48 HOURS BEFORE YOU DIG 811

(IN FEET)
1 inch = 30 ft.
60 30 0 30

VERTICAL DATUM NAVD 88

DRAWN: D.W. 3–5–2018
PROJECT: A0102
FILE: BASE.dwg

THE MILCOR GROUP, INC.
CIVIL ENGINEERS
10975 SE FEDERAL HIGHWAY
HOBE SOUND, FL 33455
PH: (772)223–8850
FAX: (772) 223–8851
WWW.THEMILCORGROUP.COM
CERTIFICATE OF AUTHORIZATION: 28246

UTILITY PLAN

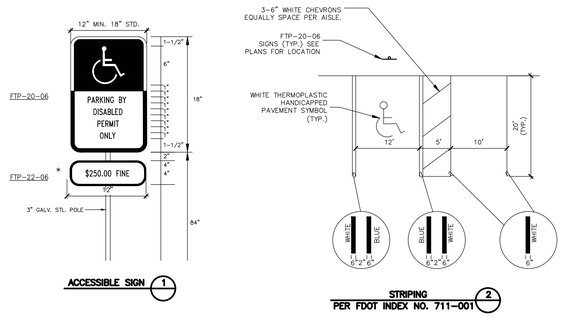
CONCHY JOE'S

JENSEN BEACH, FLORIDA

KENNETH M. PAUL LICENSE No. 77738 STATE OF FLORIDA PROFESSIONAL ENGINEER
Feb 17 2020

SHEET NO.
9

J:\A01 Ayers\A0102 – Conchy Joe's Expansion\DWG\DESIGN\BASE.dwg, PRINTED BY: FransiscoM ON Mon, Feb 17 2020

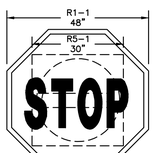


ACCESSIBLE SIGN (1)

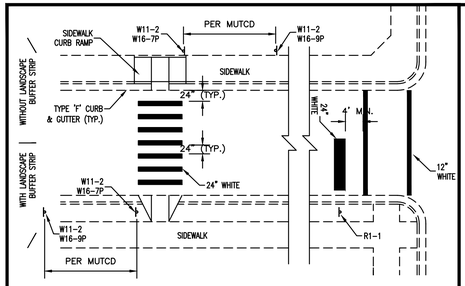
STRIPING PER FDOT INDEX NO. 711-001 (2)

R5-1

R1-1

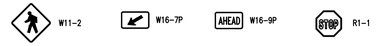


R1-1/R5-1 COMBINATION



MID-BLOCK CROSSWALK

STOP-CONTROLLED CROSSWALK



SIGN DETAILS

NOTES:

1. ALL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC IN ACCORDANCE WITH FDOT STANDARD SPECIFICATION 711.
2. MID-BLOCK CROSSWALK MARKINGS SHALL BE WHITE SPECIAL EMPHASIS.
3. STOP-CONTROLLED CROSSWALK MARKINGS SHALL BE STANDARD.
4. PUBLIC SIDEWALK CURB RAMPS AND DETECTABLE WARNING SURFACES SHALL BE DESIGNED IN ACCORDANCE WITH FDOT STANDARD PLANS INDEX 522. DETECTABLE WARNING SURFACES SHALL BE CAST IN PLACE ARMOR TILE OR APPROVED EQUAL AND BRICK RED IN COLOR. BOLT OR SCREW DOWN TYPES ARE PROHIBITED.
5. CROSSWALK WARNING SIGNAGE SHALL BE YELLOW, UNLESS CROSSWALK IS LOCATED IN A SCHOOL ZONE WHERE LIME-GREEN SHALL BE USED.
6. SIGN INSTALLATION SHALL BE PER TRAFFIC CONTROL DETAIL, R-140A.

MARTIN COUNTY ENGINEERING - STANDARD DETAILS	DETAIL R-120A
CROSSWALK	DATE: 04/23/19

MAINTENANCE OF TRAFFIC CONTROL DEVICES

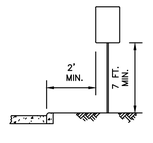
TRAFFIC SIGNS ON PRIVATELY MAINTAINED ROADS ARE THE RESPONSIBILITY OF THE MAINTAINING ENTITY, TYPICALLY, THE HOMEOWNERS OR PROPERTY OWNERS ASSOCIATION. WHERE PRIVATELY MAINTAINED ROADS INTERSECT STATE OR COUNTY MAINTAINED ROADS, THE TRAFFIC SIGNS (SUCH AS STREET NAME "BLADES" AND REGULATORY SIGNS) AND MARKINGS (SUCH AS STOP BARS) "SHALL BE THE RESPONSIBILITY OF THE PROPERTY OWNER AND CURRENT USER ENTITY" NOT THE COUNTY OR THE STATE. PRIOR TO THE MARTIN COUNTY SHERIFF'S OFFICE PATROLLING ON PRIVATE ROADS, AN AGREEMENT FOR TRAFFIC CONTROL ON PRIVATE ROADS MUST BE EXECUTED WITH MARTIN COUNTY. THE HOMEOWNERS OR PROPERTY OWNERS ASSOCIATION SHALL SUBMIT A CERTIFICATION OF COMPLIANCE WITH THESE REGULATIONS PRIOR TO THE EXECUTION OF THE AGREEMENT FOR TRAFFIC CONTROL ON PRIVATE ROADS; THE CERTIFICATION MUST BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF FLORIDA.

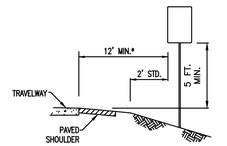
THE DESIGN AND MANUFACTURING OF ALL SIGNING AND MARKINGS REQUIRED FOR THE OPERATION OF THE CONNECTION (SUCH AS STOP BARS AND STOP SIGNS FOR THE CONNECTION) SHALL BE THE RESPONSIBILITY OF THE PROPERTY OWNER AND CURRENT ENTITY RESPONSIBLE FOR THE CONNECTION, OR GOVERNMENTAL ENTITY HAVING JURISDICTION OVER THE CONNECTION, ROAD, OR INTERSECTION OF THE COUNTY ROAD REGARDLESS OF THE OWNER OF THE RIGHT-OF-WAY AS PROVIDED IN CHAPTER 316, FLORIDA STATUTES.

ALL TRAFFIC CONTROL DEVICES INSTALLED ON COUNTY OR PRIVATELY MAINTAINED ROADS SHALL BE IN CONFORMANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), THE FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) STANDARD PLANS, AND THESE STANDARDS.

PLACEMENT OF TRAFFIC CONTROL DEVICES

PER FLORIDA STATUTE 316.0747, THE PLACEMENT OR POSITION OF TRAFFIC CONTROL DEVICES ALONG ROADS WHERE THE PUBLIC IS INVITED, INCLUDING THOSE DEVICES INSTALLED ON PRIVATE PROPERTY, SHALL MEET THE STATE STANDARDS ADOPTED BY THE FDOT, WHICH INCLUDES THOSE IDENTIFIED IN THE MUTCD. IF THE STANDARD POSITION CANNOT BE ATTAINED DUE TO IMMOBILE OBSTRUCTIONS, ALTERNATIVE PLACEMENT MAY BE PERMITTED BY THE COUNTY ENGINEER.





*THE SETBACK FOR STOP OR YIELD SIGNS MAY BE REDUCED TO 3' MINIMUM FROM THE DRIVING LANE IF REQUIRED FOR VISIBILITY IN BUSINESS OR RESIDENTIAL AREAS WITH NO CURB AND SPEEDS OF 30 MPH OR LESS

MARTIN COUNTY ENGINEERING - STANDARD DETAILS	DETAIL R-140A
TRAFFIC CONTROL	DATE: 04/23/19

SIGNS AND MARKINGS

R1-1 — INSTALLATION OF STOP SIGNS SHALL BE IN ACCORDANCE WITH THE SECTION 28.04 OF THE MUTCD. MULTI-WAY STOP SIGNS SHALL BE PLACED ONLY IF APPLICABLE IN ACCORDANCE WITH SECTION 2B.07 OF THE MUTCD. STOP SIGNS ARE USED TO INDICATE THAT TRAFFIC IS ALWAYS REQUIRED TO STOP AND SHOULD NEVER BE USED TO SLOW OR CALM TRAFFIC FLOW. STOP SIGNS SHALL BE OCTAGONAL AND AT LEAST 30 INCHES HIGH BY 30 INCHES WIDE WITH WHITE DIAMOND GRADE SHEETING BACKGROUND AND CLEAR RED ELECTROCUT OVERLAY OR SILKSCREENED WITH CLEAR ULTRAVIOLET RESISTANT OVERLAY.

A STOP BAR OR LINE IS REQUIRED AT EACH LOCATION WHERE A STOP SIGN EXISTS. THE STOP BAR SHALL CONSIST OF A SOLID 24-INCH WIDE WHITE THERMOPLASTIC LINE THAT EXTENDS ACROSS THE APPROACH LANES TO INDICATE THE POINT AT WHICH THE STOP IS INTENDED OR REQUIRED TO BE MADE.

R1-2 — YIELD SIGNS SHALL BE USED ONLY TO CONTROL MERGE MOVEMENTS AND TO ASSIGN THE RIGHT OF WAY AT THE ENTRANCE OF A ROUNDABOUT INTERSECTION. YIELD SIGNS ARE TRIANGULAR AND SHALL BE AT LEAST 36 INCHES ALONG EACH SIDE WITH WHITE DIAMOND GRADE SHEETING BACKGROUND AND CLEAR RED ELECTROCUT OVERLAY OR SILKSCREENED WITH CLEAR ULTRAVIOLET RESISTANT OVERLAY.

R3-1 — NO RIGHT TURN OR NO LEFT TURN SIGNS SHOULD BE PLACED WHERE THEY WILL BE MOST EASILY SEEN BY ROAD USERS WHO MIGHT BE INTENDING TO TURN. THESE SIGNS ARE THE ONLY SIGNS (OTHER THAN THE SUPPLEMENTAL PLAQUE) PERMITTED TO BE PLACED ON THE POST IN CONJUNCTION WITH A STOP OR YIELD WHEN LOCATED ON OR NEAR THE RIGHT CORNER OF THE INTERSECTION. TURN PROHIBITION SIGNS SHALL BE AT LEAST 24 INCHES HIGH BY 24 INCHES WIDE WITH WHITE DIAMOND GRADE SHEETING BACKGROUND AND CLEAR RED ELECTROCUT OVERLAY OR SILKSCREENED WITH CLEAR ULTRAVIOLET RESISTANT OVERLAY.

R2-1 — SPEED LIMITS SHALL BE ESTABLISHED IN ACCORDANCE WITH THE FDOT' SPEED ZONING FOR HIGHWAYS, ROADS, AND STREETS IN FLORIDA. SPEED LIMIT SIGNS SHALL BE AT LEAST 30 INCHES HIGH BY 24 INCHES WIDE WITH WHITE DIAMOND GRADE SHEETING BACKGROUND OR SILKSCREENED WITH CLEAR ULTRAVIOLET RESISTANT OVERLAY.

THE MINIMUM POSTED SPEED IN MARTIN COUNTY IS 25 MPH; HOWEVER, SCHOOL ZONES MAY BE POSTED AT 20 MPH.

ONLY SCHOOL WARNING SIGNS, INCLUDING THE "SCHOOL" PORTION OF THE SCHOOL SPEED LIMIT SIGN AND INCLUDING ANY SUPPLEMENTAL PLAQUES USED IN ASSOCIATION WITH THESE WARNING SIGNS, SHALL HAVE A FLUORESCENT YELLOW-GREEN BACKGROUND WITH A BLACK LEGEND AND BORDER.

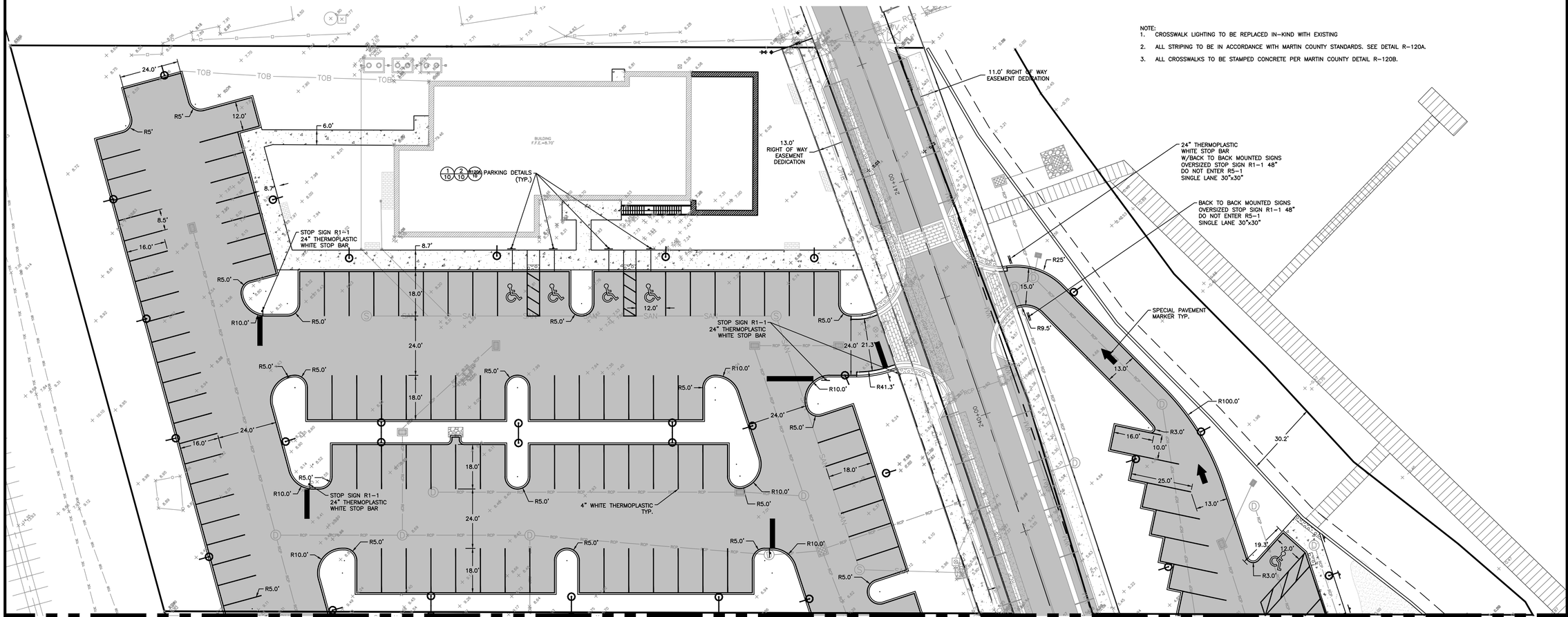
ALL OTHER WARNING SIGNS SHALL HAVE A FLUORESCENT YELLOW BACKGROUND WITH A BLACK LEGEND AND BORDER.

DEAD END — THE DEAD END SIGN (OR FLAG ON A STREET NAME) BLADE SHALL BE USED AT THE ENTRANCE OF A SINGLE ROAD OR STREET THAT TERMINATES IN A DEAD END OR CUL-DE-SAC.

NO OUTLET — THE NO OUTLET SIGN (OR FLAG ON A STREET NAME BLADE) SHALL BE USED AT THE ENTRANCE TO A ROAD OR ROAD NETWORK FROM WHICH THERE IS NO OTHER EXIT.

THE TOP PORTION OF THE PARKING BY DISABLED PERMIT ONLY SIGN SHALL DISPLAY WHITE REFLECTIVE LEGEND AND BORDER WITH A BLUE REFLECTIVE BACKGROUND. THE BOTTOM PORTION OF THE SIGN SHALL DISPLAY AN OPAQUE BLACK LEGEND AND BORDER WITH A REFLECTIVE WHITE BACKGROUND. SIGN FABRICATION SHALL CONSIST OF ONE PANEL.

MARTIN COUNTY ENGINEERING - STANDARD DETAILS	DETAIL R-140B
TRAFFIC CONTROL	DATE: 04/23/19



MATCH LINE A SEE SHEET 11

NOTE:
1. CROSSWALK LIGHTING TO BE REPLACED IN-KIND WITH EXISTING
2. ALL STRIPING TO BE IN ACCORDANCE WITH MARTIN COUNTY STANDARDS. SEE DETAIL R-120A.
3. ALL CROSSWALKS TO BE STAMPED CONCRETE PER MARTIN COUNTY DETAIL R-120B.

NO.	DATE:	REVISION:	BY
4	2-17-20	PER MARTIN COUNTY UTILITY COMMENTS	FM
3	1-8-20	REVISIONS PER MARTIN COUNTY	FM
2	12-10-19	PER MARTIN COUNTY COMMENTS	FM
1	9-25-19	PER REVISED MEAN HIGH WATER LINE (MHWL)	AT
0	8-20-19	PER MARTIN COUNTY COMMENTS	AT

CALL 48 HOURS BEFORE YOU DIG 811

(IN FEET) 1 inch = 20 ft.

VERTICAL DATUM NAVD 88

DRAWN: D.W. 3-5-2018

PROJECT: A0102

FILE: BASE.dwg

THE MILCOR GROUP, INC.

CIVIL ENGINEERS
10975 SE FEDERAL HIGHWAY
HOBE SOUND, FL 33455

PH: (772)223-8850
FAX: (772) 223-8851

WWW.THEMILCORGROUP.COM

CERTIFICATE OF AUTHORIZATION: 28246

RIGHT OF WAY EASEMENT DEDICATION, SIGNAGE, & STRIPING PLAN

CONCHY JOE'S

JENSEN BEACH, FLORIDA

KENNETH M. RAU LICENSE No. 72738 Feb 17 2020 STATE OF FLORIDA PROFESSIONAL ENGINEER

SHEET NO.

10

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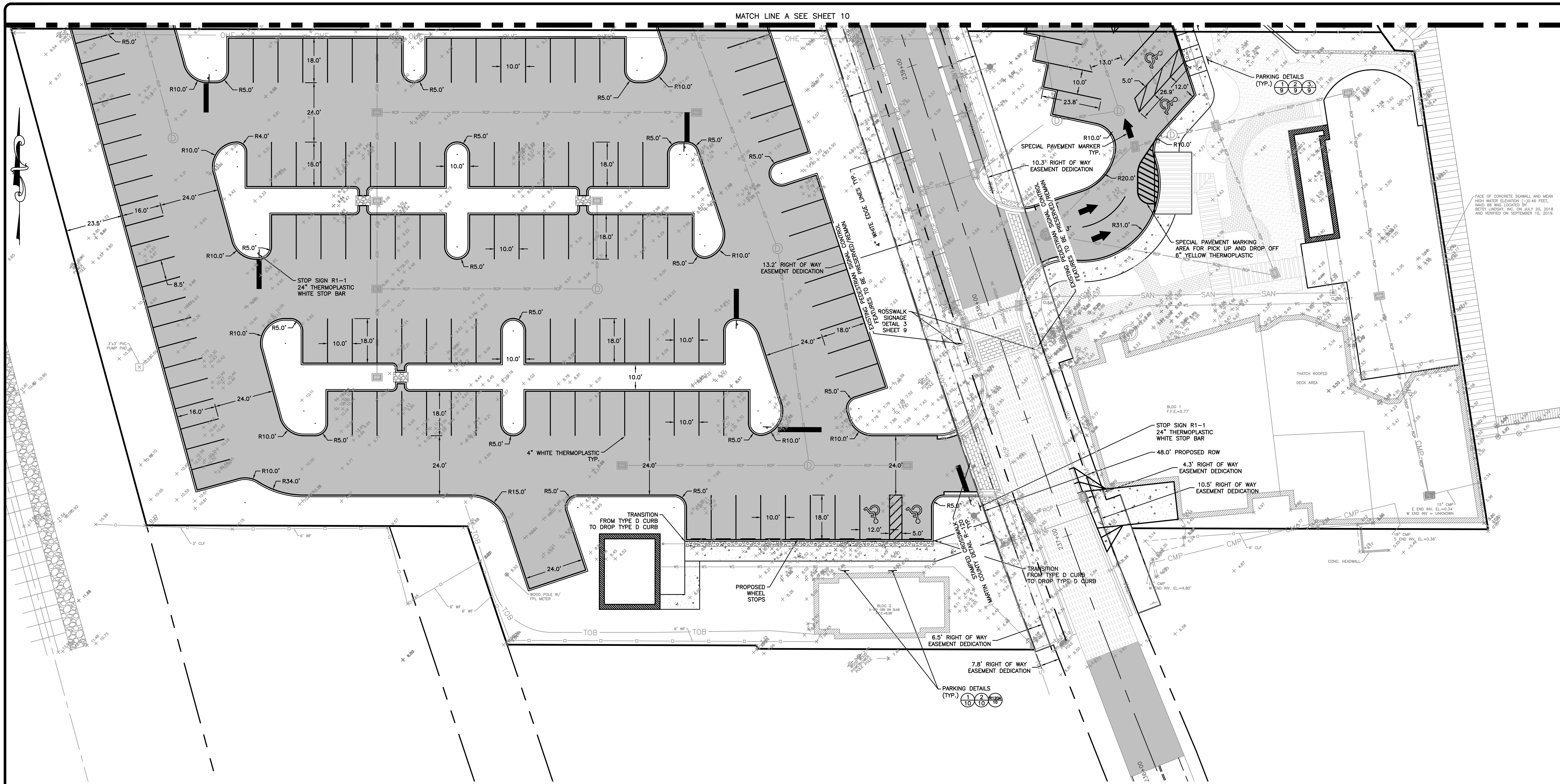

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NO.	DATE:	REVISION:	BY
8			
7			
6			
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RIGHT OF WAY EASEMENT DEDICATION, SIGNAGE,& STRIPING PLAN

CONCHY JOE'S

JENSEN BEACH, FLORIDA

KENNETH M. RAU
LICENSE
No 27739
Feb 17 2020
STATE OF FLORIDA
PROFESSIONAL ENGINEER

SHEET NO.
11

GENERAL NOTES:

FOR THE PURPOSE OF THE GENERAL NOTES BELOW, THE TERM DEPARTMENT SHALL MEAN "MARTIN COUNTY UTILITIES & SOLID WASTE DEPARTMENT".

1. ALL CONNECTIONS TO EXISTING MAINS SHALL BE OBSERVED BY THE DEPARTMENT. VALVES ON EXISTING MAINS SHALL BE OPERATED BY DEPARTMENT PERSONNEL OR UNDER THEIR DIRECT SUPERVISION. TAPPING SLEEVE AND VALVE SHALL BE PRESSURE TESTED PRIOR TO TAPPING. IF SERVICE MUST BE CUT OFF TO EXISTING CUSTOMERS, THE DEPARTMENT MUST HAVE THREE DAYS NOTICE TO MAKE NECESSARY NOTIFICATIONS. THE CONTRACTOR MAY BE REQUIRED TO ASSIST IN NOTIFICATIONS. IN THIS EVENT, CONTRACTOR SHALL BE READY TO PROCEED WITH AS MUCH MATERIAL PREASSEMBLED AS POSSIBLE AT THE SITE TO MINIMIZE THE LENGTH OF SERVICE INTERRUPTION. THE DEPARTMENT WILL POSTPONE A SERVICE CUT OFF IF THE CONTRACTOR IS NOT READY TO PROCEED ON SCHEDULE. SUCH CONNECTIONS SHALL BE MADE AT NIGHT TO MINIMIZE EFFECTS UNLESS OTHERWISE AUTHORIZED BY THE DEPARTMENT. NO CUSTOMER SHOULD BE WITHOUT SERVICE FOR MORE THAN FOUR HOURS.

LOCAL CHLORINATION WILL BE REQUIRED FOR ALL PIPE AND FITTINGS USED TO COMPLETE CONNECTIONS WITH POTABLE WATER.

2. THE CONTRACTOR SHALL HAVE AVAILABLE AT THE JOB SITE AT ALL TIMES ONE COPY OF MARTIN COUNTY UTILITIES MINIMUM DESIGN AND CONSTRUCTION STANDARDS, ONE COPY OF THE CONTRACT DOCUMENTS, INCLUDING PLANS, SPECIFICATIONS AND SPECIAL PROVISIONS, AND COPIES OF ANY REQUIRED CONSTRUCTION PERMITS.

3. THE CONTRACTOR SHALL CONTACT ALL CONCERNED UTILITIES AT LEAST 48 HOURS IN ADVANCE OF CONSTRUCTION OPERATIONS.

4. THE LOCATION AND SIZE OF ALL EXISTING UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE AND ARE BASED ON THE BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION OF ALL EXISTING UTILITIES. THE CONTRACTOR SHALL VERIFY ALL UTILITIES BY ELECTRONIC METHOD AND BY HAND EXCAVATION IN COORDINATION WITH ALL UTILITY COMPANIES PRIOR TO BEGINNING ANY CONSTRUCTION OPERATIONS. ANY AND ALL CONFLICTS OF EXISTING UTILITIES WITH PROPOSED IMPROVEMENTS SHALL BE RESOLVED BY THE ENGINEER AND DEPARTMENT PRIOR TO BEGINNING ANY CONSTRUCTION OPERATIONS. THIS WORK BY THE CONTRACTOR SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND NO ADDITIONAL COMPENSATION SHALL BE ALLOWED.

5. LOCATION OF PROPOSED FACILITIES WILL BE STAKED BY CONTRACTOR. CONTRACTOR MUST GIVE 48 HOURS NOTICE TO THE DEPARTMENT IN ADVANCE OF LAYOUT.

6. PROJECT SUPERINTENDENT: THE CONTRACTOR SHALL PROVIDE A QUALIFIED SUPERINTENDENT TO REMAIN ON THE JOB SITE AT ALL TIMES WHEN WORK IS BEING PERFORMED. THE SUPERINTENDENT SHALL BE PRESENT AT THE PRE-CONSTRUCTION MEETINGS. THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT BY LETTER PRIOR TO THE PRE-CONSTRUCTION MEETING APPOINTING THE SUPERINTENDENT FOR THIS PROJECT INCLUDING A FORMAL RESUME SHOWING QUALIFICATIONS. IN THE EVENT THE SUPERINTENDENT WILL NOT BE PRESENT FOR ANY PERIOD OF TIME DURING CONTRACT WORK THE CONTRACTOR SHALL PROVIDE 48 HOURS NOTICE IN WRITING TO THE DEPARTMENT, INCLUDING THE APPOINTMENT OF A QUALIFIED REPLACEMENT SUPERINTENDENT WHO WILL BE PRESENT DURING THE CONSTRUCTION. WORK SHALL NOT BE ALLOWED TO PROCEED UNLESS THE ASSIGNED SUPERINTENDENT IS PRESENT.

7. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE HIS COMPLETE FAMILIARITY WITH THE PROJECT SITE AND COMPONENTS TO INCLUDE SUBSURFACE CONDITIONS OF SOIL AND GROUNDWATER TABLE.

WARNING: EXACT LOCATION OF UNDERGROUND UTILITIES IS NOT KNOWN NOR IS THIS DRAWING TO BE CONSTRUED AS DEPICTING THE LOCATION OF ALL UNDERGROUND UTILITIES OR STRUCTURES. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINATION OF LOCATION PRIOR TO COMMENCEMENT OF WORK. THE CONTRACTOR IS RESPONSIBLE, THEREFORE, FOR ALL DAMAGE AND REPAIR COSTS.

1 GENERAL NOTES, SPECIFICATIONS AND SEPARATION STATEMENT
Dwg 1A
Revised: AUGUST 2016

GENERAL NOTES (Cont.):

8. DENSITY TESTS OF TRENCH BACKFILL MATERIAL SHALL BE REQUIRED AT INTERVALS OF NOT MORE THAN 500 FEET. DENSITY TESTS OF PAVEMENT OPEN-CUT AREAS INCLUDING ROADS, TURNLANES, AND DRIVES SHALL BE REQUIRED AT EACH OPEN-CUT AT INTERVALS OF NOT MORE THAN 50 FEET. ALL TESTS SHALL COMMENCE AT THE TOP OF CONDUIT AND EVERY 12 INCHES TO THE FINISH GRADE. COMPACTION SHALL BE IN ACCORDANCE WITH MARTIN COUNTY UTILITIES CONSTRUCTION STANDARDS "TYPICAL TRENCH DETAIL" AND "FLEXIBLE PAVEMENT REPLACEMENT DETAIL". FLORIDA BEARING TESTS FOR THE STABILITY OF EXISTING SUBSOIL SHALL BE TAKEN AT INTERVALS OF NOT MORE THAN 500 FEET, AND CLOSER AS MIGHT BE NECESSARY IN THE EVENT OF VARIATIONS IN THE STRATA. A CERTIFIED COPY OF THE TESTS SHALL BE PROVIDED TO THE DEPARTMENT AND THE FLORIDA DEPARTMENT OF TRANSPORTATION OR MARTIN COUNTY ENGINEERING DEPARTMENT DEPENDING ON JURISDICTION. CONTRACTORS BID PRICE SHALL INCLUDE PAYMENT FOR ALL TESTS CONDUCTED BY AN INDEPENDENT TESTING LAB.

9. ANY LANDSCAPING DISTURBED, UNLESS OTHERWISE SHOWN ON THE PLANS, SHALL BE REPLACED BY THE CONTRACTOR TO THE SATISFACTION OF THE DEPARTMENT AT THE CONTRACTORS EXPENSE.

10. ANY SIDEWALK, CURB AND GUTTER OR PAVEMENT DISTURBED, UNLESS OTHERWISE SHOWN ON PLANS, SHALL BE REPLACED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE. UNLESS OTHERWISE SPECIFIED OR INDICATED, ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 psi AT 28 DAYS AND ALL CONCRETE WORK SHALL COMPLY WITH THE CURRENT EDITION OF THE AMERICAN CONCRETE INSTITUTE (ACI) BUILDING CODE AND THE APPLICABLE BUILDING CODES HAVING JURISDICTION IN THE AREA. ALL CONSTRUCTION SHALL MEET ADA REQUIREMENTS. THIS INCLUDES, BUT IS NOT LIMITED TO, DETECTABLE WARNING SURFACES.

11. ALL SOD IS TO BE PLACED FOR THE FULL WIDTH DISTURBED AT THE PER LINEAR FOOT UNIT PRICE FOR SOD. SOD SHALL BE REPLACED TO MATCH EXISTING KIND UNLESS OTHERWISE SHOWN ON PLANS.

12. CONTRACTOR SHALL PROVIDE PROPER BENDS TO MAINTAIN REQUIRED DEPTH AND ALIGNMENT OF PIPE. COST OF BENDS NOT DESIGNATED ON PLANS SHALL BE INCLUDED WITH THE UNIT PRICE FOR PIPE.

13. ANY TREES AND/OR SCRUB OR OTHER VEGETATION NOT TO BE REPLACED SHALL BE REMOVED FROM THE PROJECT AT THE CONTRACTOR'S EXPENSE.

14. ALL RUBBLE AND UNSUITABLE MATERIAL MUST BE REMOVED FROM THE PROJECT AND DISPOSED OF PROPERLY BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.

15. MAILBOXES MUST BE CAPABLE OF RECEIVING MAIL AT ALL TIMES.

16. DEFLECT PIPE AS NECESSARY TO OBTAIN THE REQUIRED ALIGNMENT. USE APPROPRIATE FITTINGS WHEN DEFLECTION EXCEEDS 75% OF MANUFACTURER'S RECOMMENDED MAXIMUM DEFLECTION.

17. ALL FITTINGS SHALL BE MECHANICALLY RESTRAINED. REFER TO MARTIN COUNTY UTILITIES DEPARTMENT MINIMUM DESIGN & CONSTRUCTION STANDARDS (LATEST EDITION).

18. ALL CONSTRUCTION DEWATERING (WELL POINTS, SUMPS, ETC.) WILL REQUIRE A DEWATERING PERMIT FROM SOUTH FLORIDA WATER MANAGEMENT DISTRICT. THIS SHALL BE OBTAINED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE PRIOR TO BEGINNING OF CONSTRUCTION.

19. THE "TRENCH SAFETY ACT" SHALL BE INCORPORATED INTO THIS CONTRACT AS ENACTED BY THE LEGISLATURE OF THE STATE OF FLORIDA TO BE IN EFFECT AS OF OCTOBER 1, 1990.

20. A U-2 PERMIT IS REQUIRED FOR ALL WORK WITHIN COUNTY RIGHT-OF-WAY. THIS PERMIT MUST BE OBTAINED BY THE CONTRACTOR FROM THE MARTIN COUNTY ENGINEERING DEPARTMENT. ALL COSTS PAYABLE BY THE CONTRACTOR. A COPY OF THIS PERMIT MUST BE MAINTAINED ON THE PROJECT SITE AT ALL TIMES DURING CONSTRUCTION.

21. ALL CONCRETE AND ASPHALT DRIVES MUST BE REPLACED FROM SAW CUT TO EDGE OF PAVEMENT.

2 GENERAL NOTES, SPECIFICATIONS AND SEPARATION STATEMENT
Dwg 1B

GENERAL NOTES (Cont.):

22. LOCATIONS OF FIRE HYDRANTS AND AIR RELEASE VALVES ARE APPROXIMATE ONLY. FINAL LOCATIONS WILL BE DETERMINED BY DEPARTMENT PERSONNEL IN FIELD.

23. MAXIMUM LENGTH OF WATER MAIN AND FORCE MAIN PRESSURE TEST SHALL BE 1500 FEET. WATER SOURCE FOR FLUSHING, FILLING AND PRESSURE TESTING THE WATER MAIN SHALL BE FROM A TREATED SOURCE APPROVED BY THE DEPARTMENT.

24. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION AND RESTORATION (IF DAMAGED) OF ALL EXISTING STRUCTURES WITHIN THE CONSTRUCTION LIMITS OF THE PROJECT, INCLUDING BUT NOT LIMITED TO WALLS, FENCES, POWER POLES, MAIL BOXES, DRAINAGE PIPES AND STRUCTURES, ETC.

25. THE CONTRACTOR SHALL VERIFY THE LOCATION OF EXISTING WATER SERVICES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL PROTECT THE EXISTING WATER SERVICES FROM DAMAGE AND REPAIR ANY BREAKS IMMEDIATELY.

26. "RECORD DRAWINGS" SHALL INCLUDE FURNISHING MARTIN COUNTY UTILITIES DEPARTMENT WITH ALL INFORMATION NECESSARY FOR A COMPLETE SET OF RECORD DRAWINGS AS STIPULATED IN THE MARTIN COUNTY UTILITIES DEPARTMENT MINIMUM DESIGN AND CONSTRUCTION STANDARDS (LATEST EDITION).

27. MECHANICALLY RESTRAIN LENGTHS, AS INDICATED ON DRAWING No. 20, ON EACH SIDE OF ALL BENDS AND AS INSTRUCTED IN MARTIN COUNTY UTILITIES DEPARTMENT SPECIFICATIONS. MECHANICAL RESTRAINTS SHALL BE EITHER MEGA-A-LUG, TYLER OR UNIFLANGE. THE CONTRACTORS BID PRICE FOR PIPE, GATE VALVES AND FITTINGS SHALL INCLUDE MECHANICAL RESTRAINT.

28. THE CONTRACTOR SHALL PROTECT EXISTING UTILITIES FROM DAMAGE DURING CONSTRUCTION OPERATIONS. THE CONTRACTOR SHALL SUPPORT UTILITIES AND SHORE TRENCH AS REQUIRED TO PROTECT AND MAINTAIN EXISTING UTILITIES. THE CONTRACTOR SHALL NOTIFY EACH UTILITY PRIOR TO ATTEMPTING TO SUPPORT THEIR FACILITIES. IF THE UTILITY REQUIRES THAT ONLY THEIR CREWS SHALL BE ALLOWED TO SUPPORT THEIR FACILITIES, THEN IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO COORDINATE WORK AND PAY THE UTILITY FOR THEIR EXPENSES IF REQUIRED. ALL COSTS FOR THIS WORK SHALL BE AT THE CONTRACTORS EXPENSE AND INCLUDED IN THE CONTRACTORS BID PRICE.

29. ALL PRESSURE TESTS SHALL BE IN ACCORDANCE WITH AWWA STANDARDS.

30. AIR RELEASE VALVE VAULT COVERS SHALL BE CONSTRUCTED PER DETAIL AS SHOWN IN THE DEPARTMENTS MINIMUM DESIGN AND CONSTRUCTION STANDARDS.

31. ALL WATER SERVICES SHALL BE DIRECTIONALLY DRILLED UNDER EXISTING PAVEMENT.

32. VALVE STEM RISER SHALL BE REQUIRED WHERE OPERATING NUT DEPTH EXCEEDS 4 FEET. THE RISER SHALL BE BOLTED TO THE VALVE NUT. METHOD AND MATERIALS SHALL BE APPROVED BY THE DEPARTMENT. COST FOR THIS WORK SHALL BE INCLUDED IN THE CONTRACTORS BID UNIT PRICE FOR GATE VALVES.

33. THE CONTRACTOR SHALL CLEAN MAINS USING APPROVED POLYURETHANE PIG(S). TEMPORARY CLEANING STATIONS SHALL BE CONSTRUCTED BY THE CONTRACTOR. THE CONTRACTOR SHALL PROVIDE A CLEANING PLAN SHOWING METHOD OF FILLING AND CLEANING MAINS PRIOR TO START OF CONSTRUCTION. THE CLEANING PLAN SHALL BE APPROVED BY THE DEPARTMENT PRIOR TO CONSTRUCTION. ALL COSTS FOR FILLING AND CLEANING SHALL BE AT THE CONTRACTORS EXPENSE.

34. A FLORIDA DEPARTMENT OF TRANSPORTATION PERMIT IS REQUIRED FOR ALL WORK, EXCEPT PERPENDICULAR CONNECTIONS, WITHIN THE STATE RIGHT-OF-WAY. A COPY OF THIS PERMIT MUST BE MAINTAINED ON THE PROJECT SITE AT ALL TIMES DURING CONSTRUCTION.

35. THE CONTRACTOR SHALL INSTALL TESTING POINTS FOR PRESSURE & BACTERIOLOGICAL TESTING OF WATER MAINS. THE CONTRACTOR SHALL INSTALL AND REMOVE AND PLUG CORP. STOPS PER MARTIN COUNTY UTILITIES STANDARDS "SAMPLE POINT DETAIL". THE LOCATION OF TEST POINTS SHALL BE APPROVED BY THE DEPARTMENT.

3 GENERAL NOTES, SPECIFICATIONS AND SEPARATION STATEMENT
Dwg 1C

GENERAL NOTES (Cont.):

36. WATER MAIN DISINFECTION SHALL BE IN ACCORDANCE WITH CURRENT AWWA, BULLETIN C-651.

37. WATER MAINS AND APPURTENANCES SHALL BE IN ACCORDANCE WITH CURRENT AWWA, FDEP AND NSF STANDARDS.

38. MINIMUM COVER TO FINISHED GRADE OVER WATER MAINS SHALL BE 30 INCHES UP TO 8" DIAMETER; 10" OR LARGER SHALL HAVE 36" COVER OR GREATER TO PROVIDE A MINIMUM 18" COVER OVER OPERATING NUT OF GATE VALVES.

39. ALL MAINS SHALL BE TESTED FOR LEAKAGE. WATER SHALL BE SUPPLIED TO THE MAIN AND PUMPED TO THE REQUIRED 150 PSI PRESSURE. THE MAIN TESTED SHALL EITHER BE ISOLATED FROM PRESENTLY POTABLE LINES OR PROTECTED FROM LEAKAGE BY A DOUBLE VALVE ARRANGEMENT.

40. NEWLY CONSTRUCTED FIRE HYDRANTS THROUGHOUT THE PROJECT SHALL HAVE A RED "OUT OF SERVICE" DISK (JOSEPH G. POLLARD CO. OR EQUAL) ATTACHED TO 4" PUMPER NOZZLE CAP. DISK TO BE REMOVED AFTER WATER SYSTEM HAS BEEN APPROVED FOR SERVICE BY THE DEPARTMENT.

THE DEPARTMENT SHALL BE NOTIFIED AT LEAST 48 HOURS IN ADVANCE OF ANY TESTING PROCEDURES. AFTER FLUSHING IS COMPLETED, LINE PRESSURE SHALL BE APPLIED TO THE WATER SYSTEM TO DETERMINE IF ANY MAJOR DEFECTS ARE PRESENT. THE COMPLETE WATER SYSTEM SHALL THEN BE TESTED AT A PRESSURE OF 150 PSI FOR A PERIOD OF NOT LESS THAN TWO HOURS. THE DEPARTMENT MAY, AT ITS DISCRETION, INCREASE THE PERIOD TO FOUR HOURS. MAXIMUM LENGTH OF LINE TO BE TESTED AT ONE TIME SHALL NOT EXCEED 1500 LINEAR FEET. AN OIL FILLED PRESSURE GAUGE UP TO 200 PSI AT 2 POUND INCREMENTS SHALL BE USED FOR ALL PRESSURE TESTS. NO VISIBLE MOVEMENT OF THE SYSTEM SHALL OCCUR AND LEAKAGE SHALL NOT EXCEED:

$$L = \frac{ND\sqrt{P}}{7400} \text{ PER HOUR}$$

WHERE: L= LEAKAGE IN GALLONS
N= NUMBER OF JOINTS IN TEST SECTION
P= TEST PRESSURE IN PSI.
D= DIAMETER OF PIPE IN INCHES

NOTE: MARTIN COUNTY UTILITIES DEPARTMENT'S MINIMUM DESIGN AND CONSTRUCTION STANDARDS (LATEST EDITION), ARE TO BE ADHERED TO AND WILL BE ENFORCED TO AT LEAST THESE MINIMUM STANDARDS.

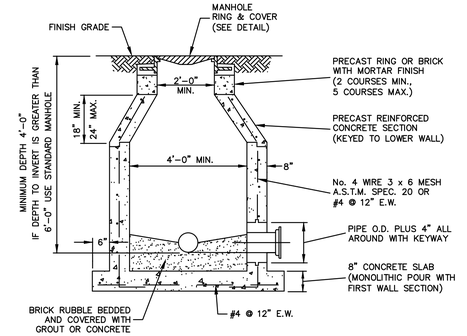
48 HOURS BEFORE DIGGING
CALL TOLL-FREE
1-800-432-4770
SUNSHINE STATE ONE CALL OF FLORIDA, INC
UNDERGROUND UTILITIES NOTIFICATION CENTER

4 GENERAL NOTES, SPECIFICATIONS AND SEPARATION STATEMENT
Dwg 1D

STANDARD WATER/SEWER SEPARATION STATEMENT

62-555.314 Location of Public Water System Mains.
For the purpose of this section, the phrase 'water mains' shall mean mains, including treatment plant process piping, conveying either raw, partially treated, or finished drinking water; fire hydrant leads; and service lines that are under the control of a public water system and that have an inside diameter of three inches or greater.
(1) Horizontal Separation Between Underground Water Mains and Sanitary or Storm Sewers, Wastewater or Stormwater Force Mains, Reclaimed Water Pipelines, and On-Site Sewage Treatment and Disposal Systems.
(a) New or relocated, underground water mains shall be laid to provide a horizontal distance of at least three feet between the outside of the water main and the outside of any existing or proposed storm sewer, Stormwater force main, or pipeline conveying reclaimed water regulated under Part III of Chapter 62-610, F.A.C.
(b) New or relocated, underground water mains shall be laid to provide a horizontal distance of at least three feet, and preferably ten feet, between the outside of the water main and the outside of any existing or proposed vacuum-type sanitary sewer.
(c) New or relocated, underground water mains shall be laid to provide a horizontal distance of at least six feet, and preferably ten feet, between the outside of the water main and the outside of any existing or proposed gravity- or pressure-type sanitary sewer, wastewater force main, or pipeline conveying reclaimed water not regulated under Part III of Chapter 62-610, F.A.C. The minimum horizontal separation distance between water mains and gravity-type sanitary sewers shall be reduced to three feet where the bottom of the water main is laid at least six inches above the top of the sewer.
(d) New or relocated, underground water mains shall be laid to provide a horizontal distance of at least ten feet between the outside of the water main and all parts of any existing or proposed 'on-site sewage treatment and disposal system' as defined in Section 381.0065(2), F.S., and Rule 64E-6.002, F.A.C.
(2) Vertical Separation Between Underground Water Mains and Sanitary or Storm Sewers, Wastewater or Stormwater Force Mains, and Reclaimed Water Pipelines.
(a) New or relocated, underground water mains crossing any existing or proposed gravity- or vacuum-type sanitary sewer or storm sewer shall be laid so the outside of the water main is at least six inches, and preferably 12 inches, above or at least 12 inches below the outside of the other pipeline. However, it is preferable to lay the water main above the other pipeline.
(b) New or relocated, underground water mains crossing any existing or proposed pressure-type sanitary sewer, wastewater or stormwater force main, or pipeline conveying reclaimed water shall be laid so the outside of the water main is at least 12 inches above or below the outside of the other pipeline. However, it is preferable to lay the water main above the other pipeline.
(c) At the utility crossings described in paragraphs (a) and (b) above, one full length of water main pipe shall be centered above or below the other pipeline so the water main joints will be as far as possible from the other pipeline. Alternatively, at such crossings, the pipes shall be arranged so that all water main joints are at least three feet from all joints in vacuum-type sanitary sewers, storm sewers, stormwater force mains, or pipelines conveying reclaimed water regulated under Part III of Chapter 62-610, F.A.C., and at least six feet from all joints in gravity- or pressure-type sanitary sewers, wastewater force mains, or pipelines conveying reclaimed water not regulated under Part III of Chapter 62-610, F.A.C.
(3) Separation Between Water Mains and Sanitary or Storm Sewer Manholes.
(a) No water main shall pass through, or come into contact with, any part of a sanitary sewer manhole.
(b) Effective August 28, 2003, water mains shall not be constructed or altered to pass through, or come into contact with, any part of a storm sewer manhole or inlet structure. Where it is not technically feasible or economically sensible to comply with this requirement (i.e., where there is a conflict in the routing of a water main and a storm sewer and where alternative routing of the water main or the storm sewer is not technically feasible or is not economically sensible), the Department shall allow exceptions to this requirement (i.e., the Department shall allow construction of conflict manholes), but suppliers of water or persons proposing to construct conflict manholes must first obtain a specific permit from the Department in accordance with Part V of this chapter and must provide in the preliminary design report or drawings, specifications, and design data accompanying their permit application the following information:
1. Technical or economic justification for each conflict manhole.
2. A statement identifying the party responsible for maintaining each conflict manhole.
3. Assurance of compliance with the design and construction requirements in sub-subparagraphs a. through d. below.
a. Each water main passing through a conflict manhole shall have a flexible, watertight joint on each side of the manhole to accommodate differential settling between the main and the manhole.
b. Within each conflict manhole, the water main passing through the manhole shall be installed in a watertight casing pipe having high impact strength (i.e., having an impact strength at least equal to that of 0.25-inch-thick ductile iron pipe).
c. Each conflict manhole shall have an access opening, and shall be sized, to allow for easy cleaning of the manhole.
d. Gratings shall be installed at all storm sewer inlets upstream of each conflict manhole to prevent large objects from entering the manhole.
(4) Separation Between Fire Hydrant Drains and Sanitary or Storm Sewers, Wastewater or Stormwater Force Mains, Reclaimed Water Pipelines, and On-Site Sewage Treatment and Disposal Systems. New or relocated fire hydrants with underground drains shall be located so that the drains are at least three feet from any existing or proposed storm sewer, stormwater force main, or pipeline conveying reclaimed water regulated under Part III of Chapter 62-610, F.A.C.; at least three feet, and preferably ten feet, from any existing or proposed vacuum-type sanitary sewer; at least six feet, and preferably ten feet, from any existing or proposed gravity- or pressure-type sanitary sewer, wastewater force main, or pipeline conveying reclaimed water not regulated under Part III of Chapter 62-610, F.A.C.; and at least ten feet from any existing or proposed 'on-site sewage treatment and disposal system' as defined in Section 381.0065(2), F.S., and Rule 64E-6.002, F.A.C.
(5) Exceptions. Where it is not technically feasible or economically sensible to comply with the requirements in subsection (1) or (2) above, the Department shall allow exceptions to these requirements if suppliers of water or construction permit applicants provide technical or economic justification for each exception and provide alternative construction features that afford a similar level of reliability and public health protection. Acceptable alternative construction features include the following:
(a) Where an underground water main is being laid less than the required minimum horizontal distance from another pipeline and where an underground water main is crossing another pipeline and joints in the water main are being located less than the required minimum distance from joints in the other pipeline:
1. Use of pressure-rated pipe conforming to the American Water Works Association standards incorporated into Rule 62-555.330, F.A.C., for the other pipeline if it is a gravity- or vacuum-type pipeline;
2. Use of welded, fused, or otherwise restrained joints for either the water main or the other pipeline; or
3. Use of watertight casing pipe or concrete encasement at least four inches thick for either the water main or the other pipeline.
(b) Where an underground water main is being laid less than three feet horizontally from another pipeline and where an underground water main is crossing another pipeline and is being laid less than the required minimum vertical distance from the other pipeline:
1. Use of pipe, or casing pipe, having high impact strength (i.e., having an impact strength at least equal to that of 0.25-inch-thick ductile iron pipe) or concrete encasement at least four inches thick for the water main; and
2. Use of pipe, or casing pipe, having high impact strength (i.e., having an impact strength at least equal to that of 0.25-inch-thick ductile iron pipe) or concrete encasement at least four inches thick for the other pipeline if it is new and is conveying wastewater or reclaimed water.

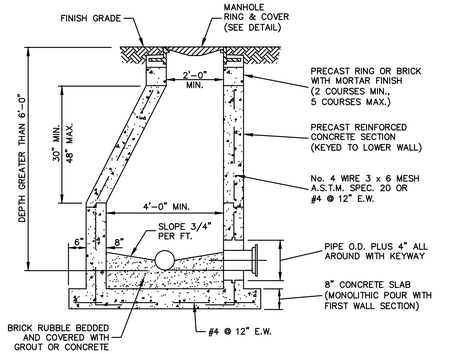
5 GENERAL NOTES, SPECIFICATIONS AND SEPARATION STATEMENT
Dwg 1E
Revised: AUGUST 2016



NOTES:

1. PROVIDE 0.1' DROP THROUGH MANHOLE.
2. PRECAST CONCRETE TYPE II, 4000 P.S.I.
3. "RAMNEK" OR EQUAL AT ALL RISER JOINTS (1/2" THICK WITH WIDTH AT LEAST 1/2 THE WALL THICKNESS) WITH GROUT ON INSIDE AND OUTSIDE.
4. ALL OPENINGS SHALL BE SEALED WITH A WATERPROOF NON-SHRINKING GROUT.
5. FLOW CHANNELS SHALL BE CONSTRUCTED TO DIRECT INFLUENT INTO FLOW STREAM. (SEE DETAIL)
6. LIFT HOLES ARE PERMITTED.
7. ALL PIPE HOLES SHALL BE PRECAST OR CORE-DRILLED.
8. SAND COLLAR OR APPROVED RUBBER BOOT MUST BE USED WITH P.V.C. PIPE.
9. MANHOLE TO RECEIVE 2 COATS WATER BASED EPOXY (PRO TECH EW-1 OR APPROVED EQUAL) ON THE INTERIOR AND EXTERIOR. TERMINAL MANHOLES, i.e. THE LAST MANHOLE PRIOR TO DISCHARGE TO A LIFT STATION, SHALL RECEIVE 2 COATS OF WATER BASED EPOXY ON THE EXTERIOR (PRO TECH EW-1 OR APPROVED EQUAL). THE INTERIOR SHALL RECEIVE COATING OF 120 MILS OF REZCLAD E-125S AR OR MIN. 1/2" SEWPER COAT OR IET SYSTEMS COATING (10 MILS PRIMARY COAT, 30 MILS INTERMEDIATE COAT, 5-10 MILS FINISH COAT) OR MIN. 1/2" REFRATTA HAC 100.

6 SHALLOW MANHOLE
Revised: AUGUST 2016



NOTES:

1. PROVIDE 0.1' DROP THROUGH MANHOLE.
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3. "RAMNEK" OR EQUAL AT ALL RISER JOINTS (1/2" THICK WITH WIDTH AT LEAST 1/2 THE WALL THICKNESS) WITH GROUT ON INSIDE AND OUTSIDE.
4. ALL OPENINGS SHALL BE SEALED WITH A WATERPROOF NON-SHRINKING GROUT.
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6. LIFT HOLES ARE PERMITTED.
7. ALL PIPE HOLES SHALL BE PRECAST OR CORE-DRILLED.
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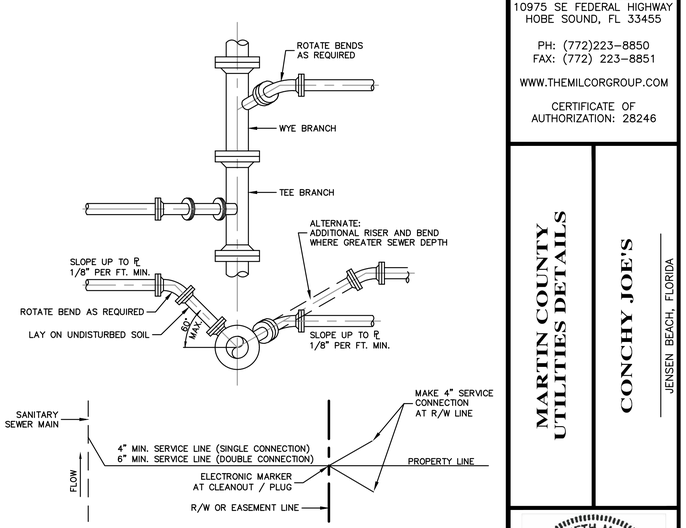
9. MANHOLE TO RECEIVE 2 COATS WATER BASED EPOXY (PRO TECH EW-1 OR APPROVED EQUAL) ON THE INTERIOR AND EXTERIOR. TERMINAL MANHOLES, i.e. THE LAST MANHOLE PRIOR TO DISCHARGE TO A LIFT STATION, SHALL RECEIVE 2 COATS OF WATER BASED EPOXY ON THE EXTERIOR (PRO TECH EW-1 OR APPROVED EQUAL). THE INTERIOR SHALL RECEIVE COATING OF 120 MILS OF REZCLAD E-125S AR OR MIN. 1/2" SEWPER COAT OR IET SYSTEMS COATING (10 MILS PRIMARY COAT, 30 MILS INTERMEDIATE COAT, 5-10 MILS FINISH COAT) OR MIN. 1/2" REFRATTA HAC 100.

7 STANDARD MANHOLE
Dwg 34
Revised: AUGUST 2016



NOTES:

1. SERVICE LATERALS SHALL TERMINATE WITH A CLEANOUT AT P.
2. LATERAL DEPTH AT P. SHALL BE (3) FEET MIN., PLUGGED WATERTIGHT AND MARKED WITH 2" x 2" TREATED STAKE AND ELECTRONIC MARKER.

8 TYPICAL SEWER SERVICE CONNECTION
Dwg 31
Revised: AUGUST 2016

NO.	DATE:	REVISION:	BY:
1	2-17-20	PER MARTIN COUNTY UTILITY COMMENTS	FM
2	1-8-20	REVISIONS PER MARTIN COUNTY	FM
3	12-10-19	PER MARTIN COUNTY COMMENTS	FM
4	9-25-19	PER REVISED MEAN HIGH WATER LINE (MHWL)	AT
5	8-20-19	PER MARTIN COUNTY COMMENTS	AT

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VERTICAL DATUM NAVD 88
DRAWN: D.W. 3-5-2018
PROJECT: A0102
FILE: A0102-12-13.dwg

THE MILCOR GROUP, INC.
CIVIL ENGINEERS
10975 SE FEDERAL HIGHWAY
HOBE SOUND, FL 33455
PH: (772)223-8850
FAX: (772) 223-8851
WWW.THEMILCORGROUP.COM
CERTIFICATE OF AUTHORIZATION: 28246

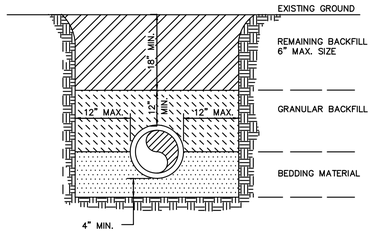
MARTIN COUNTY UTILITIES DETAILS

CONCHY JOE'S
JENSEN BEACH, FLORIDA

KENNETH M. RAU LICENSE No. 72738 Feb. 17, 2020 STATE OF FLORIDA PROFESSIONAL ENGINEER

SHEET NO.
12

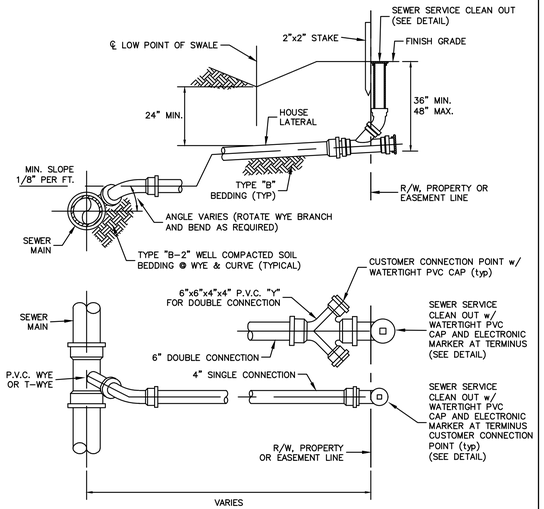
J:\A01 Ayers\A0102 - Conchy Joe's Expansion\DWG\DESIGN\A0102-12-13.dwg, PRINTED BY: FransiscoM ON Mon, Feb 17 2020



NOTES:

1. BEDDING MATERIAL SHALL BE HAND PLACED IN 6" LIFTS AND SHALL CONSIST OF IN-SITU GRANULAR MATERIAL OR WASHED AND GRADED LIMEROCK 3/8"-7/8" SIZING. UNSUITABLE IN-SITU MATERIALS SUCH AS MUCK, DEBRIS AND LARGER ROCK SHALL BE REMOVED.
2. THE PIPE SHALL BE FULLY SUPPORTED FOR ITS ENTIRE LENGTH WITH APPROPRIATE COMPACTION UNDER THE PIPE HAUNCHES.
3. THE PIPE SHALL BE PLACED IN A DRY TRENCH.
4. BACKFILL SHALL BE DONE WITH APPROVED MATERIAL, CLEAN AND FREE OF ROCKS, MUCK AND OTHER DELETERIOUS MATTER AND COMPACTED BENEATH THE HAUNCHES OF THE PIPE USING MECHANICAL TAMPERS TO 100% MAXIMUM DENSITY AS DETERMINED BY AASHTO T-99.
5. BACKFILL TO BE COMPACTED ALONG THE SIDES OF THE PIPE AND TO A POINT ONE FOOT ABOVE THE TOP OF THE PIPE TO 100% MAXIMUM DENSITY AS DETERMINED BY AASHTO T-99.
6. A. WHERE PAVEMENT IS TO BE CONSTRUCTED OVER THE PIPE THE REMAINING BACKFILL SHALL BE COMPACTED IN 6 INCH LAYERS AND COMPACTED TO 95% MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180.
   B. WHERE "NO" PAVEMENT IS TO BE CONSTRUCTED OVER THE PIPE THE REMAINING FILL SHALL BE COMPACTED IN 6 INCH LAYERS TO A DENSITY 90% MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180.
7. CONTRACTOR SHALL COMPLY WITH ALL STATE AND LOCAL TRENCH SAFETY REGULATIONS

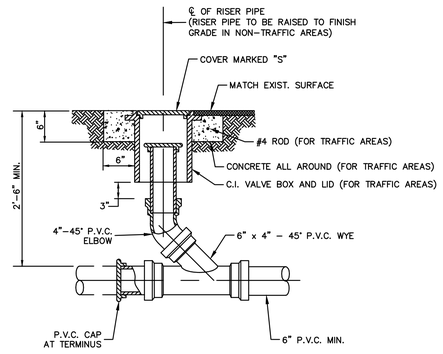
9 TYPICAL TRENCH DETAIL
Dwg 23
Revised: AUGUST 2016



NOTES:

1. INVERT OF LATERAL TO BE 36" FROM FINISHED GRADE EXCEPT ON " WATER LINE SIDE " OF STREET R/W WHERE IT SHALL DROP TO 48" AS SOON AS DEPTH OF SEWER MAIN PERMITS.
2. THIS DETAIL TO BE USED WHEN TOP OF SEWER MAIN IS LESS THAN 7'-0" DEEP.
3. INSTALL MAGNETIC MARKERS AT THE END OF EACH SERVICE LINE OR OPPOSITE WYES AND RECORD LOCATION.
4. SERVICE LATERALS SHALL TERMINATE WITH A CLEANOUT AT ℄.

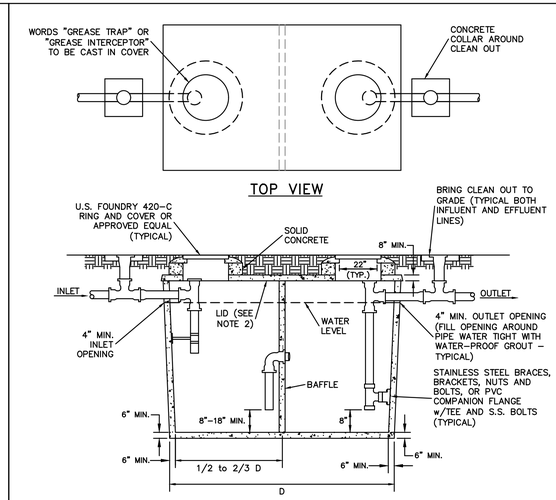
10 SANITARY SEWER LATERAL DETAIL
Dwg 32
Revised: AUGUST 2016



NOTES:

1. CONCRETE PAD w/ REBAR AND CAST IRON VALVE BOX TO BE INSTALLED IN TRAFFIC AREAS ONLY.

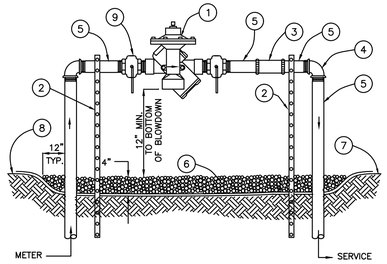
11 SEWER SERVICE CLEANOUT
Dwg 33
Revised: AUGUST 2016



NOTES:

1. GREASE TRAPS (SEPTIC TANKS) SHALL BE MANUFACTURED BY FLORIDA SEPTIC INC., SEBRING SEPTIC, AVERETT SEPTIC, OR APPROVED EQUAL. STATEMENT: "THIS CONCRETE STRUCTURE MEETS OR EXCEEDS ALL THE REQUIREMENTS FOR GREASE INTERCEPTORS/SEPTIC TANKS AS REQUIRED BY THE FLORIDA ADMINISTRATIVE CODE (F.A.C.), CHAPTERS 64E-6.013". TANK SIZES SHALL BE 750 GALLONS MINIMUM AND 1,250 GALLONS MAXIMUM AS REQUIRED BY THE F.A.C.. SIZING CALCULATIONS, (3 COPIES MINIMUM), SHALL THEN BE SIGNED AND SEALED BY THE ENGINEER-OF-RECORD AND FORWARDED TO THE DEPARTMENT FOR APPROVAL. NOTE THAT GENERATION RATES FOR ORDINARY RESTAURANTS SHALL BE 16 GPD PER SEAT PER MARTIN COUNTY UTILITY DEPARTMENTAL POLICY.
2. LID TYPES:
   A) 4" REGULAR LID
   B) 8" TRAFFIC BEARING LID
3. ALL INTERNAL COMPONENTS WILL BE CONSTRUCTED BY GREASE TRAP INSTALLER.
4. TANK INSPECTIONS WILL OCCUR WITH TANK ABOVE GROUND.
5. BAFFLE SHALL BE INSTALLED 1/2 (ONE HALF) TO 2/3 (TWO THIRDS) 'D'.
6. MEETS H-20 LOAD REQUIREMENTS.

12 DOUBLE-COMPARTMENT GREASE TRAP AND OIL SEPARATOR
Revised: AUGUST 2016

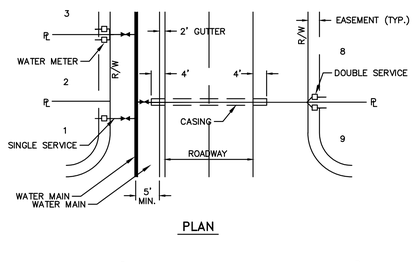


MATERIALS		
ITEM	QUANT.	DESCRIPTION
1	1	2" BACKFLOW PREVENTER
2	2	1" S.S. UNISTRUT W/ S.S. STRAPS
3	1	2" COUPLING - COMPRESSION
4	2	2" X 90° ELBOW
5	4	2" X 6" NIPPLES
6		PEA GRAVEL
7		FILTER FABRIC
8		FINISHED GRADE
9	2	BALL VALVE

NOTES:

1. INSTALLATION SHOWN ABOVE IS FOR A 2" SERVICE. CHANGE PIPING MATERIALS ACCORDINGLY FOR SERVICE SIZE.
2. USE COPPER, BRASS OR STAINLESS STEEL FOR FITTINGS AND PIPE MATERIAL.

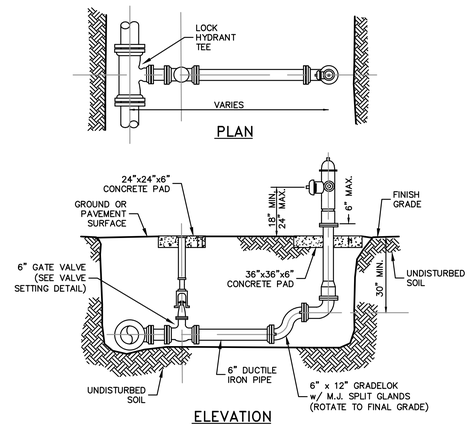
13 REDUCED PRESSURE BACKFLOW PREVENTER SINGLE SERVICE, 3/4", 1", 1-1/2" AND 2"
Dwg 13
Revised: AUGUST 2016



NOTES:

1. HOUSE SERVICE LATERAL UNDER PAVEMENT SHALL BE INSTALLED THROUGH A 2" MINIMUM PVC SCH. 80 CASING OR HDPE CASING (EXISTING ROADWAYS).
2. TAPPING SADDLE AND CORPORATION STOP MUST BE PLACED IN ACCESSIBLE AREAS, OUT FROM UNDER ANY PAVED AREAS.
3. SERVICE LOCATOR WIRE SHALL BE LAID IN THE TRENCH WITH ALL SERVICES, CONNECTED TO THE MAIN WIRE AND WRAPPED AROUND THE SERVICE PIPING OR TUBING. WIRE FOR POTABLE WATER SHALL BE BLUE IN COLOR.

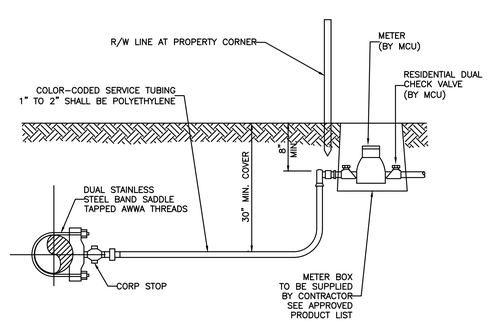
14 WATER SERVICE CONNECTIONS (SINGLE OR DOUBLE) PLAN / PROFILE
Dwg 3
Revised: AUGUST 2016



NOTES:

1. HYDRANTS SHALL BE INSTALLED PLUMB AND TRUE.
2. VALVES SHALL BE PLACED ADJACENT TO MAIN, AND TIED TO TEE.
3. ANCHOR TEES ARE REQUIRED.
4. ALL HYDRANTS SHALL BE TEE'D OFF OF MAIN.
5. HYDRANTS SHALL NOT BE PLACED IN SIDEWALK, ROADWAYS OR BIKEPATHS.
6. PIPE FROM VALVE TO HYDRANT SHALL BE RESTRAINED.
7. HYDRANT BARREL AND BONNET COLOR TO BE OSHA YELLOW.
8. THE CONNECTOR PIPE SHALL BE CEMENT LINED DUCTILE IRON, CLASS 350 AND POSITIONED BETWEEN THE FIRE HYDRANT AND GATE VALVE.
9. THE CONNECTOR PIPE SHALL HAVE AN ANCHORING FEATURE AT BOTH ENDS SO THAT WHEN USED WITH M.J. SPLIT GLANDS A RESTRAINED JOINT IS PROVIDED.
10. HYDRANT EXTENSIONS SHALL NOT BE ALLOWED.
11. NEWLY CONSTRUCTED FIRE HYDRANTS THROUGHOUT THE PROJECT SHALL HAVE A RED "OUT OF SERVICE" DISK (JOSEPH G. POLLARD CO. OR EQUAL) ATTACHED TO 4" PUMPER NOZZLE CAP. DISK TO BE REMOVED AFTER WATER SYSTEM HAS BEEN APPROVED FOR SERVICE BY THE DEPARTMENT.
12. A MAXIMUM OF 20 FEET OF HORIZONTAL PIPE SHALL TYPICALLY BE INSTALLED BETWEEN THE 6" GATE VALVE AT THE WATER MAIN AND THE HYDRANT. IF IT IS NECESSARY TO INSTALL MORE THAN 20 FEET OF HORIZONTAL PIPE, AN ADDITIONAL 6" GATE VALVE WILL BE REQUIRED AT THE HYDRANT LOCATION.

15 FIRE HYDRANT INSTALLATION DETAIL AND NOTES
Dwg 7
Revised: AUGUST 2016



NOTES:

1. MIN. SERVICE LINES SHALL BE AS FOLLOWS: 1" FOR SINGLE AND DOUBLE SERVICES WHERE METER SIZE IS 5/8"; 2" FOR SINGLE AND DOUBLE SERVICES WHERE METER SIZE IS 1".
2. COMPRESSION FITTINGS SHALL BE SUITABLE FOR TUBING USED AND REQUIRE METAL (S.S.) INSERTS.
3. DOUBLE SERVICES REQUIRE "U" BRANCH WITH ANGLE CURB STOPS.
4. POLYETHYLENE SHALL BE AS DEFINED BY A.S.T.M. D2737 SDR9 COPPER TUBE SIZE (CTS) AND A.W.W.A. 901, LATEST EDITION, AND BE PRESSURE RATED FOR 200 PSI AND SHALL BE "ENDOPURE" BY ENDOT INDUSTRIES, INC., ROCKAWAY, N.J., OR APPROVED EQUAL.
5. TUBING SHALL BE MARKED WITH SIZE, MANUFACTURERS NAME, WORKING PRESSURE, NATIONAL SANITATION FOUNDATION APPROVAL, A.S.T.M. SPECIFICATION AND PRODUCTION CODE. TUBING SHALL HAVE AN OUTSIDE DIAMETER EQUIVALENT TO THE OUTER DIAMETER OF COPPER TUBING.
6. SERVICE LOCATOR WIRE SHALL BE LAID IN THE TRENCH WITH ALL SERVICES, CONNECTED TO THE MAIN WIRE AND WRAPPED AROUND THE SERVICE PIPING OR TUBING. WIRE FOR POTABLE WATER SHALL BE BLUE IN COLOR.

16 SERVICE CONNECTION DETAIL 5/8" OR 1" METER
Dwg 2
Revised: AUGUST 2016

NO.	DATE:	REVISION:	BY:
1	2-17-20	PER MARTIN COUNTY UTILITY COMMENTS	FM
2	1-8-20	REVISIONS PER MARTIN COUNTY	FM
3	12-10-19	PER MARTIN COUNTY COMMENTS	FM
4	9-25-19	PER REVISED MEAN HIGH WATER LINE (MHWL)	AT
5	8-20-19	PER MARTIN COUNTY COMMENTS	AT

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VERTICAL DATUM NAVD 88
DRAWN: D.W. 3-5-2018
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THE MILCOR GROUP, INC.
CIVIL ENGINEERS
10975 SE FEDERAL HIGHWAY
HOBE SOUND, FL 33455
PH: (772)223-8850
FAX: (772) 223-8851
WWW.THEMILCORGROUP.COM
CERTIFICATE OF AUTHORIZATION: 28246

MARTIN COUNTY UTILITIES DETAILS

CONCHY JOE'S
JENSEN BEACH, FLORIDA

KENNETH M. RAU LICENSE No. 72738 Feb. 17, 2020 STATE OF FLORIDA PROFESSIONAL ENGINEER

SHEET NO.
13

J:\A01 Ayers\A0102 - Conchy Joe's Expansion\DWG\DESIGN\A0102-12-13.dwg, PRINTED BY: FransiscoM ON Mon, Feb 17 2020

GENERAL

1. ANY DISCREPANCIES ON THE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE COMMENCING WORK. NO FIELD CHANGE OR DEVIATIONS FROM THE DESIGN ARE TO BE MADE WITHOUT PRIOR APPROVAL OF THE ENGINEER, CITY, COUNTY OR AGENCY OF JURISDICTION.
2. THE CONTRACTOR SHALL CONTACT ALL CONCERNED UTILITIES AT LEAST FORTY-EIGHT (48) HOURS IN ADVANCE OF CONSTRUCTION OPERATIONS.
3. THE LOCATION AND SIZE OF ALL EXISTING UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE AND BASED ON THE BEST AVAILABLE INFORMATION. ADDITIONAL UTILITIES MAY EXIST WHICH ARE NOT SHOWN ON THE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION OF ALL EXISTING UTILITIES. THE CONTRACTOR SHALL VERIFY ALL UTILITIES BY ELECTRONIC METHODS AND BY HAND EXCAVATION IN COORDINATION WITH ALL UTILITY COMPANIES, PRIOR TO BEGINNING ANY CONSTRUCTION OPERATIONS. ANY AND ALL CONFLICTS OF EXISTING UTILITIES WITH PROPOSED IMPROVEMENTS SHALL BE RESOLVED BY THE ENGINEER AND THE OWNER PRIOR TO BEGINNING ANY CONSTRUCTION OPERATIONS. THIS WORK BY THE CONTRACTOR SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND NO ADDITIONAL COMPENSATION SHALL BE ALLOWED.
4. THE CONTRACTOR SHALL MAINTAIN ALL WATER SUPPLY AND SANITARY SEWER SERVICE THROUGHOUT CONSTRUCTION OF THIS PROJECT. THE CONTRACTOR SHALL MAINTAIN EXISTING SERVICES UNTIL THE NEW LINES HAVE BEEN APPROVED BY THE JURISDICTIONAL UTILITY.
5. PROJECT SUPERINTENDENT: THE CONTRACTOR SHALL PROVIDE A QUALIFIED SUPERINTENDENT TO REMAIN ON THE JOB SITE AT ALL TIMES WHEN WORK IS BEING PERFORMED. THE SUPERINTENDENT SHALL BE PRESENT AT THE PRE-CONSTRUCTION MEETING. THE CONTRACTOR SHALL NOTIFY THE LOCAL UTILITY COMPANY BY LETTER PRIOR TO THE PRE-CONSTRUCTION MEETING APPOINTING THE SUPERINTENDENT FOR THIS PROJECT INCLUDING A FORMAL RESUME SHOWING QUALIFICATIONS.
6. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE HIS/HER COMPLETE FAMILIARITY WITH THE PROJECT SITE AND COMPONENTS TO INCLUDE SUBSURFACE CONDITIONS OF SOIL AND GROUNDWATER TABLE. BY SUBMITTAL OF A BID FOR THIS PROJECT, THE CONTRACTOR ACKNOWLEDGES HIS/HER COMPLETE UNDERSTANDING AND RESPONSIBILITIES WITH RESPECT TO THE CONSTRUCTION ACTIVITIES REQUIRED UNDER THE SCOPE OF THIS PROJECT.
7. THE "TRENCH SAFETY ACT" SHALL BE INCORPORATED INTO THIS PROJECT AS ENHANCED BY THE LEGISLATURE OF THE STATE OF FLORIDA IN EFFECT SINCE OCTOBER 1, 1990.
8. AS-BUILT PLANS: THE CONTRACTOR SHALL PROVIDE A REPRODUCIBLE MYLAR COPY AND 15 PAPER COPIES OF CERTIFIED AS-BUILT SURVEYS. DRAWINGS SHALL BEAR THE ORIGINAL SIGNATURE AND EMBOSSED SEAL OF THE SURVEYOR AND SHALL BE SUBMITTED AFTER THE COMPLETION OF CONSTRUCTION. PRIOR TO APPROVAL, THE AS-BUILT SURVEY SHALL BE PREPARED IN PLAN AND PROFILE FORMAT BY A PROFESSIONAL LAND SURVEYOR REGISTERED IN THE STATE OF FLORIDA, AND HE/SHE SHALL COMPLY WITH APPLICABLE PROVISIONS OF THE FLORIDA ADMINISTRATIVE CODE AND CHAPTER 472 OF THE FLORIDA STATUTES. THE DRAWINGS SHALL BE AT A SCALE COMPARABLE TO THE DESIGN DRAWINGS PREPARED BY THE ENGINEER AND SHALL REFERENCE THE BASE LINE OF SURVEY APPEARING ON THE ENGINEERING DRAWINGS. THE HORIZONTAL AND VERTICAL LOCATION OF THE MAINS, ROADWAYS, DRAINAGE FACILITIES AND APPURTENANCES (INCLUDING ELEVATIONS AT AND BELOW THE NORMAL WATER ELEVATION) SHALL BE ACCURATELY DEPICTED TO SCALE, AS WELL AS IDENTIFIED RELATIVE TO THE BASE LINE AND TO IDENTIFIABLE PERMANENT OR SEMI PERMANENT REFERENCE POINTS EXISTING AFTER THE COMPLETION OF CONSTRUCTION. LOCATIONS SHALL BE DETERMINED FOR ALL FITTINGS, VALVES, SERVICES, PAVEMENT. HIGH AND LOW POINTS, DRAINAGE FACILITIES, HORIZONTAL AND VERTICAL CHANGES IN DIRECTION, BUT IN ANY CASE, AT INTERVAL NOT EXCEEDING ONE HUNDRED FEET (100') AS MEASURED ALONG THE MAINS AND ROADWAYS. THE PROFILE SHALL ACCURATELY REFLECT THE VERTICAL PIPE LOCATION AND THE FINISHED GRADE OVER THE PIPE. THE SIZE AND MATERIAL OF THE MAINS AND APPURTENANCES SHALL BE IDENTIFIED ON BOTH THE PLAN AND PROFILE VIEWS. UNDERGROUND UTILITIES CROSSING THE MAINS OR PARALLELING THE MAINS WITHIN TWENTY FEET (20') SHALL BE ACCURATELY SHOWN BOTH HORIZONTALLY AND VERTICALLY AND SHALL BE BASED UPON MEASUREMENTS AND OBSERVATIONS MADE IN THE FIELD BY THE SURVEYOR CERTIFYING THE SURVEY, OR BY PERSONNEL UNDER HIS/HER DIRECTION AND SUPERVISION. THE ELEVATION AND LOCATION OF BENCHMARKS SHALL BE ACCURATELY DEPICTED ON THE AS-BUILT SURVEY. PAYMENT FOR EACH AS-BUILT ITEM SHALL BE INCLUDED WITHIN THE UNIT PRICE FOR EACH AS-BUILT ITEM. IN ADDITION TO THE ABOVE AS-BUILT REQUIREMENTS, CONTRACTOR TO PROVIDE AS-BUILTS IN COMPLIANCE WITH THE JURISDICTIONAL UTILITY SERVICES STANDARDS. AS-BUILT REQUIREMENTS TO BE PROVIDED AT THE PRE-CONSTRUCTION MEETING.
9. THE CONTRACTOR SHALL PREPARE A PLAN SHOWING THE SCHEDULE OF WORK, INCLUDING A HIGHLIGHTED PLAN SHOWING THE ORDER OF CONSTRUCTION THAT WILL FACILITATE MAINTAINING EXISTING SERVICES DURING CONSTRUCTION. THIS PLAN SHALL BE IN ACCORDANCE WITH THE FLORIDA DEPARTMENT OF TRANSPORTATION MAINTENANCE OF TRAFFIC AND STAGING PLAN.
10. ALL CONSTRUCTION IS TO BE IN ACCORDANCE WITH FLORIDA DEPARTMENT OF TRANSPORTATION STANDARDS AND SPECIFICATIONS, COUNTY STANDARDS AND ALL OTHER JURISDICTIONAL AGENCIES.
11. TELEPHONE, POWER, CABLE, WATER, SEWER, AND GAS LOCATIONS SHOWN ARE TAKEN FROM INFORMATION PROVIDED BY THAT UTILITY COMPANY. THESE LOCATIONS HAVE NOT BEEN VERIFIED IN THE FIELD. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL UTILITY LOCATIONS PRIOR TO CONSTRUCTION. THE CONTRACTOR IS ALSO RESPONSIBLE TO EXPOSE ALL CROSSING WITH AT&T, CABLES/CATV AND FLORIDA POWER AND LIGHT ELECTRIC CONDUITS PRIOR TO BEGINNING CONSTRUCTION AND DELIVERY OF PIPE. THE CONTRACTOR IS TO USE EXTREME CAUTION WITHIN THE VICINITY OF PRIVATE UTILITY FACILITIES. THE CONTRACTOR WILL REQUEST A PRIVATE UTILITY REPRESENTATIVES PRESENCE DURING CONSTRUCTION IN THE VICINITY OF THEIR FACILITIES. A PROFILE OF THE PRIVATE UTILITY FACILITIES ARE NOT PROVIDED IN THESE DRAWINGS. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING THE PRIVATE UTILITIES AND OBTAINING THE LOCATION OF THESE FACILITIES.
12. ANY BENCHMARK MONUMENTS WITHIN THE LIMITS OF CONSTRUCTION IS TO BE PROTECTED. IF IN DANGER OF DAMAGE, THE CONTRACTOR SHOULD NOTIFY THE ENGINEER OF RECORD AND THE LOCAL JURISDICTIONAL MUNICIPALITY.
13. SHOP DRAWINGS ARE REQUIRED ON ALL CONSTRUCTION ITEMS. THE ENGINEER REQUIRES FIVE (5) WORKING DAYS PRIOR NOTICE TO REVIEW SHOW DRAWINGS AFTER RECEIPT. ADDITIONAL TIME MAY BE REQUIRED IF LOCAL GOVERNMENT OR MUNICIPALITIES REQUIRE AN INTERNAL REVIEW AND APPROVAL PROCESS.
14. THE CONTRACTOR SHALL HAVE AVAILABLE AT THE JOB SITE, AT ALL TIMES, ONE COPY OF THE CONTRACT DOCUMENTS INCLUDING PLANS, SPECIFICATIONS AND SPECIAL PROVISION, AND COPIES OF ANY REQUIRED CONSTRUCTION PERMITS.
15. CONTRACTOR TO UTILIZE ONLY "APPROVED CONSTRUCTION PLANS" FOR CONSTRUCTION. ANY PLANS NOT APPROVED FOR CONSTRUCTION SHALL BE CONSIDERED PRELIMINARY AND SHOULD NOT BE USED FOR BIDDING OR CONSTRUCTION.
16. CONTRACTOR TO PROVIDE SITE PLAN AS-BUILTS TO LOCAL JURISDICTIONAL MUNICIPALITY PRIOR TO CERTIFICATE OF OCCUPANCY.
17. IF HISTORICAL OR ARCHAEOLOGICAL ARTIFACTS ARE DISCOVERED ON SITE, THE CONTRACTOR WILL IMMEDIATELY NOTIFY THE LOCAL AND STATE OFFICIALS.
18. THE CONTRACTOR MUST OBTAIN A WATER USE PERMIT PRIOR TO CONSTRUCTION DEWATERING UNLESS THE WORK QUALIFIES FOR A GENERAL PERMIT.
19. CONCRETE SHALL BE CLASS I 3,000 PSI MINIMUM COMPRESSIVE STRENGTH UNLESS NOTED OTHERWISE. REINFORCING SHALL BE GRADE 60 DEFORMED STEEL BARS IN ACCORDANCE WITH ASTM A-615.
20. CONTRACTOR SHALL PROTECT ALL EXISTING ABOVE OR UNDERGROUND STRUCTURES, LANDSCAPE FEATURES, TREES AND UTILITIES NOT SHOWN ON THE PLANS. THE CONTRACTOR SHALL REPAIR OR REPLACE ANY ITEM DAMAGED BY CONSTRUCTION TO MEET ALL APPLICABLE CODES. ANY REPAIRED/REPLACED ITEMS ARE SUBJECT TO REVIEW AND APPROVAL BY APPLICABLE LOCAL JURISDICTIONAL AGENCY.
21. ALL PROPOSED UTILITY MATERIALS, CONSTRUCTION METHODS, TESTING AND DISINFECTION SHALL CONFORM TO THE REQUIREMENTS OF THE CURRENT LOCAL UTILITY COMPANY STANDARDS AND AWWA CURRENT STANDARD. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN AND UTILIZE A CURRENT COPY OF THE LOCAL REGULATING UTILITY COMPANY STANDARDS AND ENSURE ALL CONSTRUCTION IS IN ACCORDANCE WITH THEIR STANDARDS. ANY CONFLICT WITH THE CONSTRUCTION DRAWINGS AND THE LOCAL UTILITY COMPANY SHALL BE RESOLVED UTILIZING THE MOST STRINGENT DIRECTIONS.
22. ALL HORIZONTAL AND VERTICAL SURVEY CONTROL POINTS SHALL BE PROTECTED AND UNDISTURBED. IN THE EVENT THAT A CONTROL POINT IS DISTURBED OR DESTROYED, THE POINT SHALL BE RE-ESTABLISHED BY A FLORIDA REGISTERED LAND SURVEYOR. THE METHOD TO RE-ESTABLISH THE POINT SHALL BE APPROVED BY THE CITY /COUNTY ENGINEER AT THE CONTRACTORS EXPENSE.

STORM SEWER NOTES

1. ALL DISTURBED OUTFALL DRAINAGE AREAS SHALL BE SODDED UPON COMPLETION OF GRADING AFTER AS-BUILT GRADE ELEVATIONS ARE APPROVED BY THE ENGINEER.
2. PRIOR TO FINAL PAYMENT OF RETENTION, DETENTION, AND DRAINAGE DITCH QUANTITIES, ALL SLOPES AND SWALES SHALL BE SODDED TO AVOID EROSION.
3. BACKFILL TO BE COMPACTED IN NO GREATER THAN SIX (6) INCH LIFTS TO THE DENSITY OF THE UNDISTURBED ADJACENT SOILS.
4. THERE IS TO BE NO OFF-SITE HAULING WITHOUT PRIOR APPROVAL AND ALL EXCAVATED MATERIAL SHALL BE USED ON-SITE.
5. THE CONTRACTOR SHALL CONSTRUCT THE STORMWATER MANAGEMENT SYSTEM IN A MANNER SO AS TO MINIMIZE ANY ADVERSE IMPACTS OF THE WORKS ON FISH, WILDLIFE, NATURAL ENVIRONMENTAL VALUES AND WATER QUALITY ON OR OFF-SITE. THE CONTRACTOR SHALL INSTITUTE NECESSARY MEASURES DURING THE CONSTRUCTION PERIOD, INCLUDING FULL COMPACTION OF ANY FILL MATERIAL PLACED AROUND NEWLY INSTALLED STRUCTURES TO REDUCE EROSION, TURBIDITY, NUTRIENT LOADING AND SEDIMENTATION IN THE RECEIVING WATERS.
6. WITHIN THIRTY (30) DAYS AFTER COMPLETION OF CONSTRUCTION OF THE SURFACE WATER MANAGEMENT SYSTEM, THE CONTRACTOR SHALL ASSIST THE DESIGN ENGINEER TO PROVIDE A WRITTEN STATEMENT OF COMPLETION AND CERTIFICATION BY A FLORIDA PROFESSIONAL ENGINEER. THESE STATEMENTS MUST SPECIFY THE ACTUAL DATE OF CONSTRUCTION COMPLETION AND MUST CERTIFY THAT ALL FACILITIES HAVE BEEN CONSTRUCTED IN SUBSTANTIAL CONFORMANCE WITH THE PLANS AND SPECIFICATIONS. THE CONSTRUCTION COMPLETION CERTIFICATION MUST INCLUDE, AT A MINIMUM EXISTING ELEVATIONS, LOCATIONS AND DIMENSIONS OF THE COMPONENTS OF THE SURFACE WATER MANAGEMENT FACILITIES. ADDITIONALLY, IF DEVIATIONS FROM THE APPROVED DRAWINGS ARE DISCOVERED DURING THE CERTIFICATION PROCESS, THE CERTIFICATION MUST BE ACCOMPANIED BY A COPY OF THE APPROVED PERMIT DRAWINGS WITH DEVIATIONS NOTED. SEE AS-BUILT REQUIREMENTS.
7. A STABLE PERMANENT AND ACCESSIBLE ELEVATION REFERENCE SHALL BE ESTABLISHED ON OR WITHIN ONE HUNDRED FEET (100') OF ALL PERMITTED DISCHARGE STRUCTURES NO LATER THAN THE SUBMISSION OF THE CERTIFICATION TO THE WATER MANAGEMENT DISTRICT. THE LOCATION OF THE ELEVATION REFERENCE MUST BE NOTED ON OR WITHIN THE CERTIFICATION REPORT.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CORRECTION OF ANY EROSION OR SHOALING OF THE SURFACE WATER QUALITY MANAGEMENT SYSTEM.
9. INLETS: INCLUDE THE LIST OF MATERIALS/INSTALLATION/DEWATERING STABILIZATION/ASBUILT SURVEYING/TESTING. ALL STRUCTURES WILL REQUIRE THREE (3) COMPACTION TESTS AT DIFFERENT LOCATIONS AND UNDER STRUCTURES OR PER LOCAL APPROVING AUTHORITY, WHICHEVER IS MORE STRINGENT.
10. PIPE CULVERTS AND STORM SEWERS SHALL BE CONSTRUCTED AND INSTALLED IN ACCORDANCE WITH SECTION 430 OF THE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
11. REINFORCED CONCRETE PIPE SHALL BE ASTM C-76 CLASS III IN ACCORDANCE WITH SECTION 449 OF THE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
12. THE CONTRACTOR SHALL WRAP ALL STORM PIPE JOINTS. CONSTRUCTION SHALL BE PER FDOT INDEX NO. 280 WITH WOVEN GEOTEXTILE TYPE D-3 (FDOT INDEX NO. 199), SECURED WITH STRAPPING. ALL JOINTS SHALL BE WRAPPED FOR A MINIMUM 18" FROM THE BAND, JOINT OR BELL AND SPIGOT AS APPLICABLE.

PAVING, GRADING AND DRAINAGE NOTES

1. ALL UNSUITABLE MATERIALS, SUCH AS MUCK, ORGANIC MATERIAL AND OTHER DELETERIOUS MATERIAL AS CLASSIFIED BY AASHTO M 145, FOUND WITHIN THE ROAD AND PARKING LOT AREAS SHALL BE REMOVED DOWN TO ROCK OR SUITABLE MATERIAL AND REPLACED WITH THE SPECIFIED FILL MATERIAL IN MAXIMUM 12" LIFTS COMPACTED TO NOT LESS THAN 100% MAXIMUM DRY DENSITY AT OPTIMUM MOISTURE IN ACCORDANCE WITH AASHTO T-99. THICKNESS OF LAYERS MAY BE INCREASED, PROVIDED THAT THE EQUIPMENT AND METHODS USED ARE PROVEN BY FIELD DENSITY TESTING AND CAPABLE OF COMPACTING THICK LAYERS TO SPECIFIED DENSITIES.
2. ALL AREAS SHALL BE CLEARED AND GRUBBED PRIOR TO CONSTRUCTION. THIS SHALL BE CONSISTENT FOR THE COMPLETE REMOVAL AND DISPOSAL OF ALL TREES, BRUSH, STUMPS, GRASS, WEEDS, RUBBISH, AND ALL OTHER OBSTRUCTIONS RESTING ON, OR PROTRUDING THROUGH THE SURFACE OF THE EXISTING GROUND TO A DEPTH OF ONE FOOT (1'). ITEMS INTENDED TO REMAIN, TO BE RELOCATED, OR TO BE ADJUSTED SHALL BE SO DESIGNATED ON THE DRAWINGS.
3. FILL MATERIAL SHALL BE CLASSIFIED AS A-1, A-3, OR A-2-4 IN ACCORDANCE WITH AASHTO M-145 AND SHALL BE FREE FROM VEGETATION AND ORGANIC MATERIAL, NOT MORE THAN 10% BY WEIGHT OF FILL MATERIAL SHALL PASS THE NO. 200 SIEVE.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING CERTIFIED MATERIAL TEST RESULTS TO THE ENGINEER OF THE RECORD PRIOR TO THE RELEASE OF FINAL CERTIFICATION BY THE ENGINEER. TEST RESULTS MUST INCLUDE, BUT MAY NOT BE LIMITED TO, DENSITIES FOR SUBGRADE AND BASE DENSITIES AT UTILITY CROSSINGS, MANHOLES, INLETS, AND STRUCTURES. TEST SHALL INCLUDE ASPHALT GRADATION REPORTS, CONCRETE CYLINDERS.
5. ALL INLETS AND PIPE SHALL BE PROTECTED DURING CONSTRUCTION TO PREVENT SILTATION IN THE DRAINAGE SYSTEMS BY WAY OF TEMPORARY PLUGS AND PLYWOOD OR PLASTIC COVERS OVER THE INLETS. THE ENTIRE DRAINAGE SYSTEMS SHALL BE CLEANED OF ALL DEBRIS PRIOR TO FINAL ACCEPTANCE.
6. WHERE NEW ASPHALT MEETS EXISTING ASPHALT, THE EXISTING ASPHALT SHALL BE SAWCUT TO PROVIDE A STRAIGHT EVEN LINE. PRIOR TO REMOVING CURB OR GUTTER, THE ADJACENT ASPHALT SHALL BE SAWCUT TO PROVIDE A STRAIGHT EVEN LINE.
7. ALL PROPOSED ELEVATIONS REFER TO FINISHED GRADES.
8. SITE GRADING ELEVATIONS SHALL BE AT THE REQUIRED ELEVATION AND ALL AREAS SHALL BE GRADED TO DRAIN.
9. CONCRETE AND ASPHALT SHALL BE AS DESIGNATED ON THE DRAWINGS. ALL CONCRETE FOR CURBING, SIDEWALKS AND DUMPSTER PADS SHALL BE A MINIMUM 3,000 PSI.
10. PLASTIC FILTER FABRIC SHALL BE MIRAFI, TYPAR OR EQUAL, CONFORMING TO SECTION 985 OF THE FDOT STANDARD SPECIFICATIONS.
11. THE CONCRETE SIDEWALKS SHALL BE 4" THICK ON COMPACTED SUBGRADE, WITH 1/2" EXPANSION JOINTS AT ALL COLD JOINTS. CONTROL JOINTS SHALL BE 5' ON CENTER. ALL CONCRETE SIDEWALKS SHALL BE 6 INCHES THICK ACROSS DRIVEWAYS.
12. PIPE SPECIFICATIONS: THE MATERIAL TYPE SHALL BE RCP (SECTION 430 OF THE FDOT STANDARD SPECIFICATIONS).
13. BITUMINOUS MATERIAL SHALL BE ASPHALT CEMENT, CONFORMING TO THE LATEST REQUIREMENTS OF FDOT STANDARD SPECIFICATIONS SECTION 916.

SOD

1. THE SOD SHALL BE CERTIFIED TO MEET FLORIDA STATE PLANT BOARD SPECIFICATIONS, ABSOLUTELY TRUE TO VARIETAL TYPE AND FREE FROM WEEDS, FUNGUS, INSECTS AND DISEASE OF ANY KIND. ALL SODDED AREAS SHALL BE GRASSED AS SPECIFIED ON PLANS AND SURVIVAL GUARANTEED FOR NINETY DAYS FROM DATE OF REPLACEMENT. SURVIVAL OF ALL RELOCATED TREES SHALL BE GUARANTEED FOR 1 YEAR AFTER TRANSPLANTING.
2. SODDING SHALL CONSIST OF SITE PREPARATION, FURNISHING AND PLACING SOD, STAPLES AND FERTILIZER AND IRRIGATING AT THE RATES AND MANNER DESCRIBED IN THIS SPECIFICATION FOR THE DESIGNATED AREAS.
3. UNLESS NOTED OTHERWISE ON LANDSCAPE PLANS, SOD SHALL BE ARGENTINE BAHIA GRASS AND SHALL BE 12-INCH BY 12-INCH SQUARES OR OTHER.
4. WATER USED FOR IRRIGATION MAY BE OBTAINED FROM ANY APPROVED SOURCE. IT SHALL BE FREE OF EXCESS AND HARMFUL CHEMICALS, ACIDS, ALKALIES, OR ANY SUBSTANCE, WHICH IS HARMFUL TO PLANT GROWTH.

WATER QUALITY NOTES

1. THE CONTRACTOR MUST MAINTAIN A COPY OF THE LATEST LOCAL WATER MANAGEMENT DISTRICT SURFACE WATER 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 DISTRICT REPRESENTATIVES. THE CONTRACTOR SHALL REVIEW THE COMPLETE PERMIT PRIOR TO COMMENCEMENT OF THE ACTIVITY AUTHORIZED BY THE PERMIT.
2. ALL ACTIVITIES SHALL SE IMPLEMENTED AS SET FORTH IN THE PLANS, SPECIFICATIONS AND PERFORMANCE CRITERIA AS APPROVED BY LOCAL SURFACE WATER PERMIT. ANY DEVIATION FROM THE PERMITTED ACTIVITY AND THE CONDITIONS FOR UNDERTAKING THAT ACTIVITY SHALL BE CONSIDERED A VIOLATION OF THE PERMIT. PRIOR TO ANY WORK COVERED BY A PERMIT FROM SOUTH FLORIDA WATER MANAGEMENT DISTRICT (SFWMD), A NOTICE OF CONSTRUCTION COMMENCEMENT (FORM 0960) MUST BE SUBMITTED TO SFWMD BY THE PERMITTEE OR AUTHORIZED AGENT.
3. THE LOCAL WATER MANAGEMENT DISTRICT AUTHORIZED STAFF, UPON PROPER IDENTIFICATION, MUST BE GRANTED PERMISSION TO ENTER. INSPECT AND OBSERVE THE SYSTEM TO INSURE CONFORMITY WITH THE PLANS AND SPECIFICATIONS APPROVED BY THE PERMIT.
4. PRIOR TO AND DURING CONSTRUCTION, THE CONTRACTOR SHALL IMPLEMENT AND MAINTAIN ALL EROSION AND SEDIMENT CONTROL MEASURES (BEST MANAGEMENT PRACTICES) REQUIRED TO RETAIN SEDIMENT ON-SITE AND TO PREVENT VIOLATIONS OF STATE WATER QUALITY STANDARDS. ALL PRACTICES MUST BE IN ACCORDANCE WITH THE GUIDELINES AND SPECIFICATIONS IN CHAPTER 6 OF THE FLORIDA LAND DEVELOPMENT MANUAL. WHICH ARE HEREBY INCORPORATED BY REFERENCE, UNLESS A PROJECT'S SPECIFIC EROSION AND SEDIMENT CONTROL PLAN IS APPROVED AS PART OF THE SFWMD PERMIT, IN WHICH CASE THE PRACTICES MUST BE IN ACCORDANCE WITH THE PLAN. IF SITE'S SPECIFIC CONDITIONS REQUIRES ADDITIONAL MEASURES DURING ANY PHASE OF CONSTRUCTION OR OPERATION TO PREVENT EROSION OR CONTROL SEDIMENT, BEYOND THOSE SPECIFIED IN THE EROSION AND SEDIMENT CONTROL PLAN, THE CONTRACTOR SHALL IMPLEMENT ADDITIONAL BEST MANAGEMENT PRACTICES AS NECESSARY. THE CONTRACTOR SHALL CORRECT ANY EROSION OR SHOALING THAT CAUSES ADVERSE IMPACTS TO THE WATER RESOURCES AT NO ADDITIONAL COST TO OWNER.
5. WITHIN 30 DAYS AFTER COMPLETION OF THE STORMWATER SYSTEM, THE CONTRACTOR MUST ASSIST IN SUBMITTING TO THE SOUTH FLORIDA WATER MANAGEMENT DISTRICT THE FOLLOWING: DISTRICT FORM EN-45 (AS-BUILT CERTIFICATION BY A REGISTERED PROFESSIONAL), SIGNED AND SEALED BY AN APPROPRIATE PROFESSIONAL REGISTERED IN THE STATE OF FLORIDA AND TWO SETS OF AS-BUILT DRAWINGS WHEN, A) REQUIRED BY A SPECIAL CONDITION OF THIS PERMIT; B) THE PROFESSIONAL USES AS-BUILT DRAWINGS TO SUPPORT THE AS-BUILT CERTIFICATION; OR C) WHEN THE COMPLETED SYSTEM SUBSTANTIALLY DIFFERS FROM PERMITTED PLANS. THIS SUBMITTAL WILL SERVE TO NOTIFY THE DISTRICT STAFF THAT THE SYSTEM IS READY FOR INSPECTION AND APPROVAL.
6. STABILIZATION MEASURES SHALL BE INITIATED FOR EROSION AND SEDIMENT CONTROL ON DISTURBED AREAS AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN SEVEN (7) DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED.
7. THE STORMWATER MANAGEMENT SYSTEM MUST BE COMPLETE IN ACCORDANCE WITH THE PERMITTED PLANS AND PERMIT CONDITIONS PRIOR TO THE INITIATION OF THE PERMITTED USE OF SITE INFRASTRUCTURE. THE SYSTEM MUST BE COMPLETED IN ACCORDANCE WITH THE PERMITTED PLANS AND PERMIT CONDITIONS PRIOR TO TRANSFERRING RESPONSIBILITY FOR OPERATION AND MAINTENANCE OF THE STORMWATER MANAGEMENT SYSTEM TO A RESPONSIBLE ENTITY.
8. WATER QUALITY MONITORING SHALL BE PERFORMED DAILY IF SPECIFIED. SAMPLING SHALL BE PERFORMED IN THE MIDDLE OF ADJACENT CHANNELS MEASURING FOR TURBIDITY, 100 FEET UPSTREAM AND 100 FEET DOWNSTREAM OF DISCHARGES. WHEN TURBIDITY EXCEEDS 29 NTU'S ABOVE BACKGROUND LEVELS AT A SAMPLE POINT 100 FEET UPSTREAM OF DISCHARGES AND 100 NTU'S ABOVE BACKGROUND LEVELS AT A SAMPLE POINT 100 FEET DOWNSTREAM OF DISCHARGES, WORK MUST CEASE AND REMEDIAL MEASURES MUST BE PERFORMED TO RETURN CONDITIONS TO ACCEPTABLE TURBIDITY LEVELS. CONTRACTOR MUST RECEIVE ENGINEER'S APPROVAL PRIOR TO RESTARTING WORK. SAMPLE POINT LOCATIONS ARE IDENTIFIED IN THE SFWMD PERMITS.
9. THE CONTRACTOR SHALL PLACE TURBIDITY BARRIERS AT ALL OUTFALLS PRIOR TO CONSTRUCTION. ALL CUT AND FILL WILL BE RELOCATED WITHIN THE EXISTING SITE AND THEREFORE HAULING OF MATERIAL WILL NOT BE REQUIRED, UNLESS APPROVED BY THE OWNER. CONTRACTOR SHALL INSTALL TURBIDITY CONTROL MEASURES PRIOR TO COMMENCEMENT OF CONSTRUCTION, MAINTAIN SAID CONTROLS IN WORKING ORDER THROUGHOUT THE CONSTRUCTION PERIOD, ASSURE THAT TURBID DISCHARGES FROM THE PROJECT TO PROTECTED WATERS AND WETLANDS 00 NOT EXCEED LIMITS STATED IN NOTE 8 AND REMOVE SAID CONTROLS AFTER COMPLETION OF CONSTRUCTION.

EARTHWORK AND RELATED OPERATIONS

1. THE CONTRACTOR SHALL PROVIDE A QUALITY CONTROL PLAN FOR MONITORING OF ALL EARTHWORK AND RELATED OPERATIONS. THE QUALITY CONTROL PLAN SHALL INCLUDE AS A MINIMUM, ALL TESTS THAT WILL BE PERFORMED INCLUDING THE PROPOSED TEST FREQUENCIES, ALL MATERIAL SOURCES, THE NAME AND BACKGROUND OF THE PERSON THAT THE CONTRACTOR WILL DESIGNATE AS THE CONTRACTOR'S QUALITY CONTROL MANAGER. THE NAME AND QUALIFICATIONS OF THE TESTING LABORATORY THAT WILL BE PERFORMING QUALITY CONTROL TESTING AND THE NAMES AND QUALIFICATIONS OF THE TESTING LABORATORY PERSONNEL THAT WILL BE PERFORMING THE QUALITY CONTROL TESTING.
2. THE TESTING LABORATORY THAT IS RETAINED TO PERFORM THE CONTRACTOR'S QUALITY CONTROL TESTING MUST BE CERTIFIED BY A RECOGNIZED QUALIFYING AGENCY SUCH AS FOOT, CMEC OR AASHTO FOR THE TYPE OF WORK TO BE PERFORMED.
3. THE QUALITY CONTROL PLAN SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO THE START OF ANY EARTHWORK OR RELATED OPERATION.
4. UTILIZATION OF MATERIALS WITHIN ANY ROADWAY CROSS-SECTION SHALL BE IN ACCORDANCE WITH FDOT ROADWAY AND TRAFFIC DESIGN STANDARDS (LATEST EDITION) UNLESS OTHERWISE SHOWN ON THE PLANS.
5. IF THE EXISTING FILL IS CLASSIFIED AS A-2-4 BASED ON AASHTO M-145 CRITERIA, THE MAXIMUM PERMISSIBLE MOISTURE CONTENT SHALL BE 2 PERCENT ABOVE THE OPTIMUM MOISTURE CONTENT.

COMPACTION

1. WHERE THERE ARE EXISTING STRUCTURES ADJACENT TO THE SITE THAT MAY BE AFFECTED BY VIBRATORY EQUIPMENT, DENSIFICATION MUST BE PERFORMED USING EQUIPMENT THAT WILL SATISFY THE REQUIRED DENSIFICATION WITHOUT THE RISK OF DAMAGE TO THE EXISTING STRUCTURES.
2. DENSIFICATION PROCEDURES MUST COMPLY WITH THE CAPABILITY OF THE EQUIPMENT EMPLOYED.
3. WHEN SELF-PROPELLED STEEL DRUM VIBRATORY EQUIPMENT CANNOT BE USED AS SPECIFIED, VIBRATORY PLATE COMPACTORS MAY BE USED. WHEN THIS CONDITION OCCURS, THE OVERALL DENSIFICATION PROCEDURE MUST BE REVISED TO COMPLY WITH THE CAPABILITY OF THE EQUIPMENT EMPLOYED. IN GENERAL, SMALL PLATE COMPACTORS WILL BE EFFECTIVE TO A MAXIMUM DEPTH OF 6 TO 8 INCHES.

SOIL RECOMMENDATION AND REQUIREMENTS

1. STRIPPING AND GRUBBING:
   - DURING THE GRUBBING OPERATION, ROOTS WITH A DIAMETER GREATER THAN ½ INCH, OR SMALL ROOTS IN A DENSE STATE, SHOULD BE GRUBBED AND COMPLETELY REMOVED. PROOF-ROLLING THE CLEARED SURFACE IS RECOMMENDED TO LOCATE ANY UNFORESEEN SOFT AREAS OR UNSUITABLE SURFACE OR LOOSE TO LOOSE-FINE SAND SOILS WITHIN THE TOP 3 TO 4 FEET, AND TO PREPARE THE EXISTING SURFACE FOR THE ADDITION OF THE FILL SOILS (AS REQUIRED). ONE COVERAGE CONSISTS OF PARALLEL PASSES OF THE VIBRATORY ROLLER TRAVELING AT ' WALKING SPEED". EACH PASS SHOULD OVERLAP THE PRECEDING PASS BY 30% TO INSURE COMPLETE COVERAGE. SUBSEQUENT COVERAGES SHOULD BE CONDUCTED IN A DIRECTION PERPENDICULAR TO THE PRECEDING COVERAGE. IN AREAS THAT CONTINUE TO "YIELD" REMOVE ALL DELETERIOUS MATERIAL AND REPLACE WITH A CLEAN, COMPACTED SAND BACKFILL. THE PROOF ROLLING SHOULD PRODUCE A DENSITY EQUIVALENT TO 95% OF THE MODIFIED PROCTOR (ASTM D-1557) MAXIMUM DRY DENSITY VALUE FOR A DEPTH OF 2 FEET IN THE BUILDING AREA. ADDITIONAL PASSES MAY BE REQUIRED IF THESE MINIMUM DENSITY REQUIREMENTS ARE NOT ACHIEVED.
2. FILL REPLACEMENTS:
   - WHERE FILL IS TO BE PLACED ON NATURAL GROUND, THE SURFACE MUST FIRST BE PREPARED AS OUTLINED ABOVE. THE FILL AT GRADE SHOULD EXTEND A MINIMUM OF FIVE FEET (5') BEYOND THE STRUCTURE OUTLINE.
   - FILL SHOULD BE A UNIFORM FREE DRAINING GRANULAR SOIL (CLEAN SAND) ANO BE PLACED IN LAYERS NOT TO EXCEED 12 INCHES LOOSE MEASURE AND COMPACTED AS OUTLINED ABOVE. SUFFICIENT COMPACTIVE EFFORT SHOULD BE APPLIED TO OBTAIN A MINIMUM OF 98% OF THE MODIFIED PROCTOR (ASTM D-1557) MAXIMUM VALUE.
   - EXCAVATION AND BACKFILLING:
   - WHERE EXCAVATION AND BACKFILLING ARE REQUIRED, THE SOILS SHOULD BE REMOVED TO THE SPECIFIED DEPARTMENT SUFFICIENT COMPACTIVE EFFORT MUST THEN BE APPLIED TO THE EXCAVATED SURFACE TO OBTAIN A MINIMUM OF 95% OF THE MODIFIED PROCTOR (ASTM D-1557) MAXIMUM VALUE. BACKFILL SHALL BE UNIFORM FREE DRAINING GRANULAR SOIL (CLEAN SAND) AND BE PLACED IN LAYERS NOT TO EXCEED 12 INCHES LOOSE MEASURE. SUFFICIENT COMP ACTIVE EFFORT SHOULD BE APPLIED TO EACH LAYER TO OBTAIN A MINIMUM OF 95% OF THE MODIFIED PROCTOR (ASTM D-1557) MAXIMUM VALUE. THE EXCAVATED SURFACE AND EACH LAYER OF BACKFILL SHOULD BE COMPACTED WITH A SELF-PROPELLED STEEL DRUM VIBRATORY ROLLER HAVING A MINIMUM TOTAL APPLIED FORCE OF 180 TONS.
3. GROUNDWATER:
   - HEAVY RAINFALL AND/OR A HIGH-WATER TABLE MAY OCCUR BEFORE THE EARTHWORK COMMENCES, OR DURING THE EARTHWORK OPERATION. WHEN THESE CONDITIONS OCCUR AND THE SITE PREPARATION CANNOT BE ACHIEVED AS SPECIFIED, AN EXCAVATION OF THE EXISTING CONDITIONS SHOULD BE CONDUCTED AND THE SPECIFICATIONS REVISED ACCORDINGLY.
4. PAVING AREAS SUITABLE FILL MATERIAL AND THE COMPACTION OF FILL SOILS:
   - ALL FILL MATERIAL SHOULD BE FREE OF ORGANIC MATERIALS, SUCH AS ROOTS ANO VEGETATION AS A GENERAL GUIDE TO AID THE CONTRACTOR, USE FILLINGS WITH 3 TO 12 PERCENT BY DRY WEIGHT OF MATERIAL PASSING THE U.S. STANDARDS NO. 200 SIEVE SIZE. WITH PROPER MOISTURE CONTROL, THESE SOILS SHOULD DENS!FY USING VIBRATORY COMPACTION METHODS. SOILS WITH MORE THAN 12% PASSING THE NO. 200 SIEVE WILL BE MORE DIFFICULT TO COMPACT.

EXCAVATION FOR STRUCTURES AND PIPES

1. EARTHWORK AND RELATED OPERATIONS PERFORMED ON STRUCTURES AND PIPES SHALL BE CONDUCTED IN ACCORDANCE WITH SECTIONS 125 AND OTHER APPLICABLE SECTIONS OF THE F.D.O.T. STANDARD SPECIFICATIONS FOR ROADWAY AND BRIDGE CONSTRUCTION (LATEST EDITION) UNLESS OTHERWISE SHOWN ON THE PLANS.

7. REMOVAL OF UNSUITABLE, ORGANIC OR PLASTIC MATERIAL SHALL BE PERFORMED AT THE CONTRACTOR'S EXPENSE AND SHALL BE INCIDENTAL TO OTHER WORK.
8. UTILIZATION OF MATERIALS WITHIN THE WORK LIMITS SHALL BE AS DIRECTED BY THE GEOTECHN!CAL ENGINEER UNLESS OTHERWISE SHOWN ON THE PLANS.

PIPE AND STRUCTURE BACKFILL

1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE !F EXCAVATED SOILS MEET THE REQUIREMENTS OF THE PROJECT PLANS AND SPECIFICATIONS RELATIVE TO MATERIAL CLASSIFICATION. PIPE AND STRUCTURE BACKFILL MATERIAL SHALL BE LIMITED TO MATERIAL CLASSIFIED AS A-1, A-3 AND A-2-4 IN ACCORDANCE WITH AASHTO M-145 AND SHALL BE COMPACTED IN ACCORDANCE WITH F.D.O.T. SECTION 125 REQUIREMENTS.
2. IF THE BACKFILL MATERIAL IS CLASSIFIED AS A-2-4 BASED ON AASHTO M-145 CRITERIA, THE MAXIMUM PERMISSIBLE MOISTURE CONTENT SHALL BE 2 PERCENT ABOVE THE OPTIMUM MOISTURE CONTENT.

CLEAN-UP

1. THE CONTRACTOR SHALL MAINTAIN THE JOB SITE IN A NEAT CONDITION AT ALL TIMES AND SHALL RESTORE/REPAIR ALL DRIVEWAYS, SIDEWALKS, UTILITIES, LANDSCAPING, IRRIGATION SYSTEMS, ETC., AFFECTED BY CONSTRUCTION ACTIVITIES.
2. THE CONTRACTOR SHALL REMOVE ALL EXCESS MATERIALS, DEBRIS, EQUIPMENT, ETC., FROM THE JOBSITE IMMED!ATELY AFTER COMPLETION OF CONSTRUCTION OPERATIONS.
3. FOR FURTHER SITE MAINTENANCE REQUIREMENTS, THE CONTRACTOR IS REFERRED TO THE "AGREEMENT BETWEEN OWNER AND CONTRACTOR".
4. UNLESS OTHERWISE SPECIFIED OR NOTED; All DISTURBED AREAS TO BE RESTORED BY CONTRACTOR TO PRE-CONSTRUCTION CONDITION OR BETTER PRIOR TO ACCEPTANCE BY THE OWNER OR LOCAL APPROVING AUTHORITY.

SOIL EROSION PLAN

1. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT A SPECIFIC SOIL EROSION PLAN. IN GENERAL, THE SOIL EROSION PLAN SHALL REQUIRE THAT ALL ON-SITE SOILS WILL REMAIN ON-SITE AND WILL NOT ERODE INTO THE ADJACENT ROADSIDE SWALES, ADJACENT PROPERTIES, OR RETENTION DITCHES. ALL EXISTING SWALES SHALL REMAIN SODDED DURING CONSTRUCTION. THE CONTRACTOR SHALL SCARIFY ONLY AS NECESSARY TO CONSTRUCT THE PROJECT. THE CONTRACTOR SHALL SCARIFY AREAS TO PLACE VARIOUS PIPE WORK. AFTER PLACEMENT OF THE PIPE, THESE TRENCHES SHALL BE BACKFILLED. AND COMPACTED TO 98% DENSITY. PRIOR TO DISCHARGE FROM THE SITE, SILTATION BARRIERS SHALL BE UTILIZED AS PER FLORIDA DEPARTMENT OF TRANSPORTATION INDEX 102 TO AVOID FILLING THESE AREAS. UPON COMPLETION OF THE SITE WORK, ALL AREAS SHALL BE SODDED TO AVOID EROSION WITHIN SEVEN DAYS. CONTRACTOR IS REQUIRED TO COMPLY WITH ALL STATE WATER QUALITY CRITERIA, SPECIFICALLY, NO OFF-SITE DISCHARGES WILL BE ALLOWED WHICH EXCEED THE STATE TURBIDITY CRITERIA. SOD SHALL MATCH EXISTING SOD BEING REPLACED. ALL IRRIGATION LINES DISTURBED DUE TO THIS WORK SHALL BE REPAIRED WITHIN 24 HOURS OF DISTURBANCE.
2. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IN ACCORDANCE WITH THE GUIDELINES AND SPECIFICATIONS IN CHAPTER 6 OF THE FLORIDA LAND DEVELOPMENT MANUAL: A GUIDE TO SOUND LAND AND WATER MANAGEMENT (FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION, 1988).

NO.	DATE:	REVISION:	BY
8			
7			
6			
5	2-17-20	PER MARTIN COUNTY UTILITY COMMENTS	FM
4	1-8-20	REVISIONS PER MARTIN COUNTY	FM
3	12-10-19	PER MARTIN COUNTY COMMENTS	FM
2	9-25-19	PER REVISED MEAN HIGH WATER LINE (MHWL)	AT
1	8-20-19	PER MARTIN COUNTY COMMENTS	AT

CALL 48 HOURS BEFORE YOU DIG
811

VERTICAL DATUM NAVD 88

DRAWN: D.W. 3-5-2018
PROJECT: A0102
FILE: A0102-14 GEERAL NOTES.dwg

THE MILCOR GROUP, INC.

CIVIL ENGINEERS
10975 SE FEDERAL HIGHWAY
HOBE SOUND, FL 33455

PH: (772)223-8850
FAX: (772) 223-8851

WWW.THEMILCORGROUP.COM

CERTIFICATE OF AUTHORIZATION: 28246

GENERAL NOTES

CONCHY JOE'S

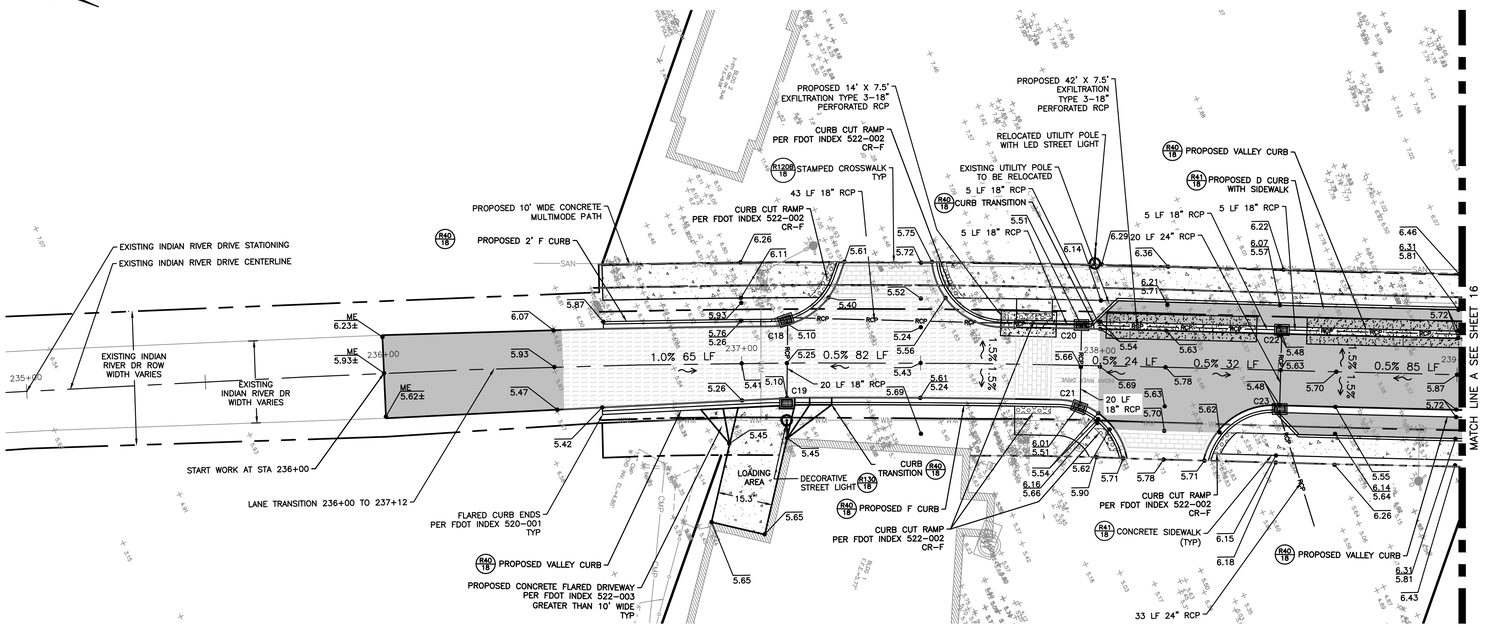
JENSEN BEACH, FLORIDA

KENNETH M. RAU
LICENSE
No 27739
Feb 17 2020
STATE OF FLORIDA
PROFESSIONAL ENGINEER

SHEET NO.

14

J:\A01 Ayers\A0102 - Conchy Joe's Expansion\DWG\DESIGN\A0102-14 GEERAL NOTES.dwg, PRINTED BY: FransiscoM ON Mon, Feb 17 2020



NOTE:

1. CATCH BASINS ADJACENT TO EXFILTRATION TO HAVE MIN 3' SUMP.
2. ALL CATCH BASINS TO HAVE MIN 18" SUMP.
3. INDIAN RIVER DRIVE WILL BE RECONSTRUCTED FROM STA 236+50 TO STA 238+00.
4. INDIAN RIVER DRIVE WILL BE MILLED, LEVEL TO GRADE, AND PAVED FROM STA 236+00 TO STA 236+50 AND FROM STA 238+00 TO 242+50.
5. ANY CHANGES TO THE FINISHED FLOOR ELEVATION MUST BE APPROVED BY THE ENGINEER.
6. SEE FPL PLAN FOR ULTIMATE UTILITY POLE LOCATIONS.
7. POLLUTION RETARDANT BAFFLE SHALL BE INCLUDED FOR STRUCTURES ADJACENT TO EXFILTRATION TRENCH.

CURB INLET
FDOT INDEX 425-024

STATION 237+13, 11' LT
C18-TYPE P9 INLET
RIM EL 5.10
INV EL 1.00 (N)
INV EL 1.00 (E)

STATION 237+95, 11' LT
C20-TYPE P9 INLET
RIM EL 5.51
INV EL 1.00 (N)
INV EL 1.00 (S)
INV EL 1.00 (E)

STATION 237+95, 11' RT
C21-TYPE P9 INLET
RIM EL 5.51
INV EL 1.00 (W)

R50/R51/18 TYPE C INLET

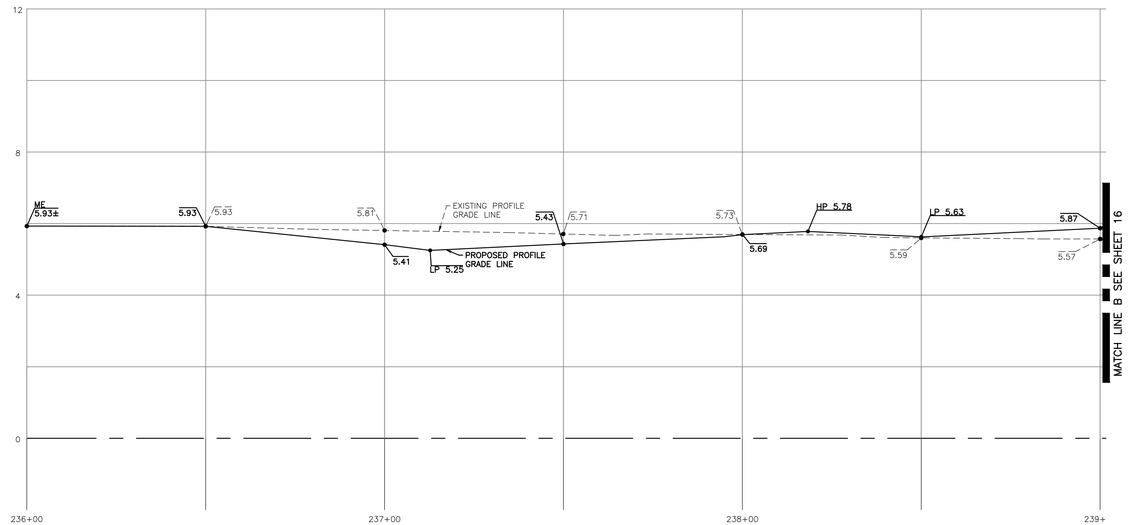
STATION 237+13, 11' RT
C19-TYPE VALLEY GRATE INLET
RIM EL 5.10
INV EL 1.00 (W)

STATION 238+51, 11' LT
C22-VALLEY GUTTER INLET
RIM EL 5.48
INV EL 1.00 (N)
INV EL 1.00 (S)
INV EL 1.00 (E)

STATION 238+51, 11' RT
C23-VALLEY GUTTER INLET
RIM EL 5.48
INV EL 1.00 (W)
INV EL 0.00 (E)

LEGEND

- PROPOSED MILLING, LEVELING, WIDENING, AND REPAVING
- PROPOSED RECONSTRUCTION
- STAMPED CROSSWALK



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FILE: BASE - Indian River Dr.dwg

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CIVIL ENGINEERS
10975 SE FEDERAL HIGHWAY
HOBE SOUND, FL 33455

PH: (772)223-8850
FAX: (772) 223-8851

WWW.THEMILCORGROUP.COM

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INDIAN RIVER DR PAVING, GRADING, & DRAINAGE PLAN

CONCHY JOE'S

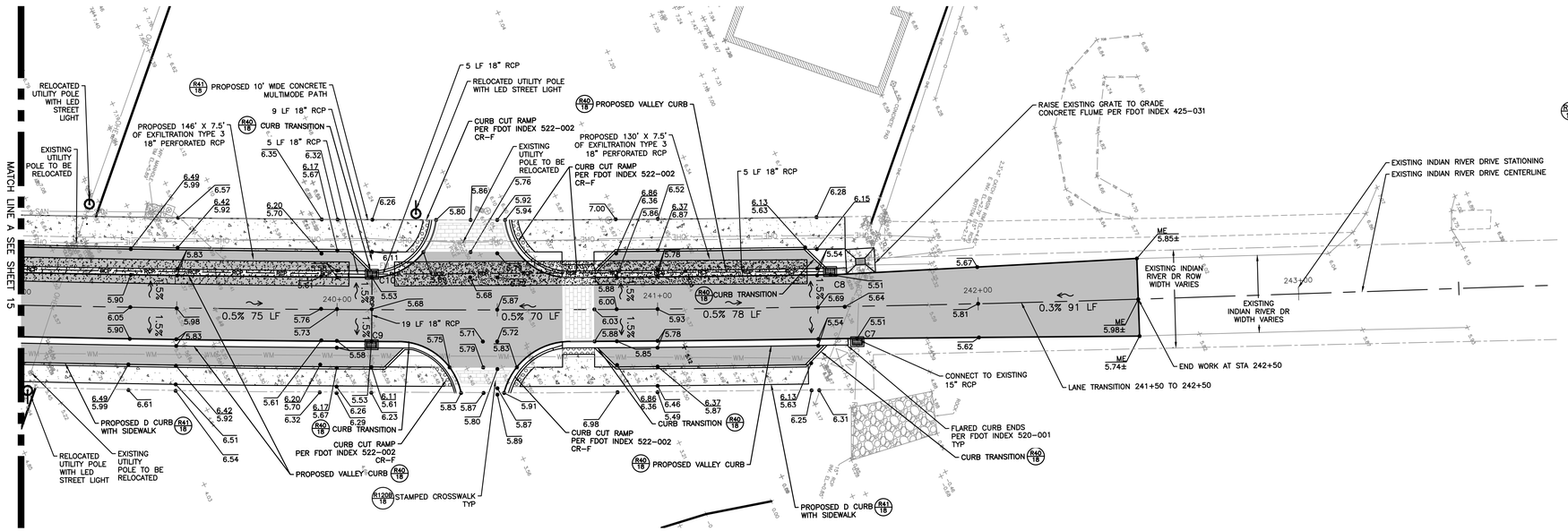
JENSEN BEACH, FLORIDA

KENNETH M. RAU LICENSE No. 72738 Feb 17 2020 STATE OF FLORIDA PROFESSIONAL ENGINEER

SHEET NO.

15

J:\A01 Ayers\A0102 - Conchy Joe's Expansion\DWG\DESIGN\BASE - Indian River Dr.dwg, PRINTED BY: FransiscoM ON Mon, Feb 17 2020



NOTE:

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2. ALL CATCH BASINS TO HAVE MIN 18" SUMP.
3. INDIAN RIVER DRIVE WILL BE RECONSTRUCTED FROM STA 236+50 TO STA 238+00.
4. INDIAN RIVER DRIVE WILL BE MILLED, LEVEL TO GRADE, AND PAVED FROM STA 236+00 TO STA 236+50 AND FROM STA 238+00 TO 242+50.
5. ANY CHANGES TO THE FINISHED FLOOR ELEVATION MUST BE APPROVED BY THE ENGINEER
6. POLLUTION RETARDANT BAFFLE SHALL BE INCLUDED FOR STRUCTURES ADJACENT TO EXFILTRATION TRENCH.
7. SEE FPL PLAN FOR ULTIMATE UTILITY POLE LOCATIONS.
8. POLLUTION RETARDANT BAFFLE SHALL BE INCLUDED FOR STRUCTURES ADJACENT TO EXFILTRATION TRENCH.

D50 18 / E51 18 TYPE C INLET

STATION 241+64, 11 RT
C7-CAST IRON GRATE
RIM EL 5.51
INV EL 1.60 (W)
INV EL 1.60 (E)

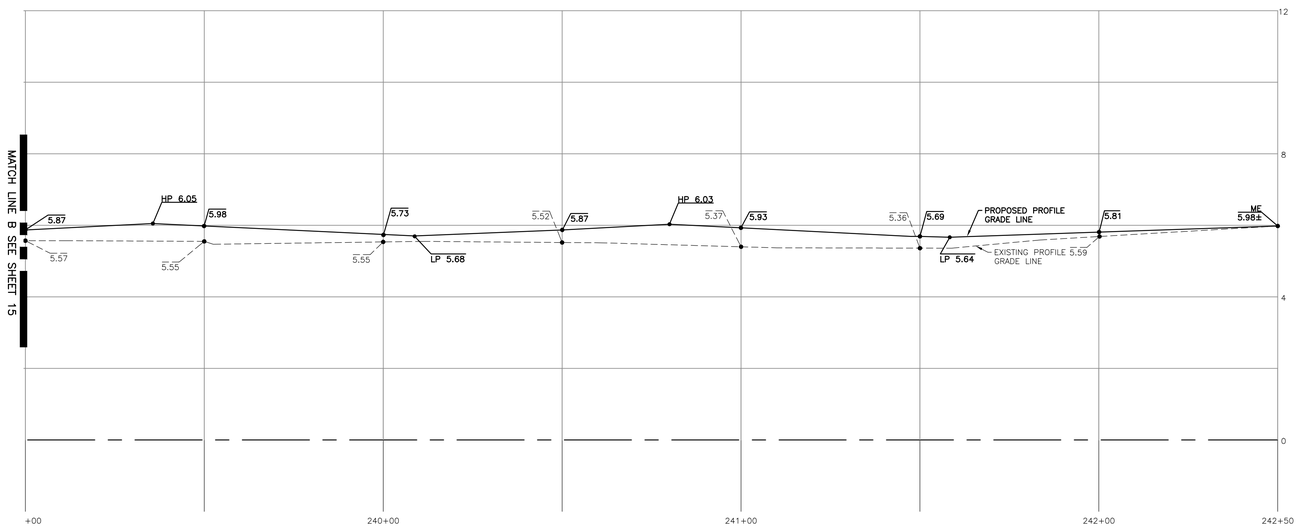
STATION 241+54, 11 LT
C8-VALLEY GUTTER INLET
RIM EL 5.51
INV EL 1.00 (S)

STATION 240+11, 11' RT
C9-VALLEY GUTTER INLET
RIM EL 5.53
INV EL 1.00 (W)

STATION 240+11, 11 LT
C10-VALLEY GUTTER INLET
RIM EL 5.53
INV EL 1.00 (N)
INV EL 1.00 (S)
INV EL 1.00 (E)

LEGEND

- PROPOSED MILLING, LEVELING, WIDENING, AND REPAVING
- PROPOSED RECONSTRUCTION
- STAMPED CROSSWALK



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CONCHY JOE'S

JENSEN BEACH, FLORIDA

KENNETH M. RAU LICENSE No. 72738 Feb 17 2020 STATE OF FLORIDA PROFESSIONAL ENGINEER

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16

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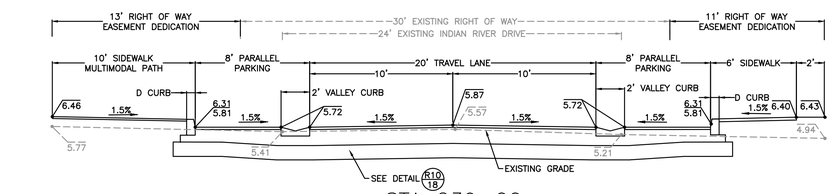
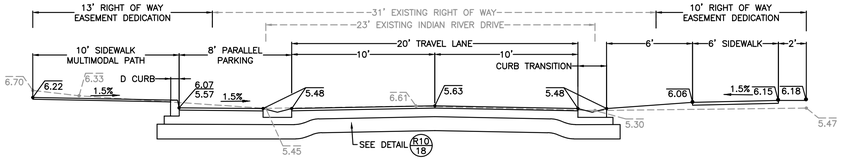


STA 239+00



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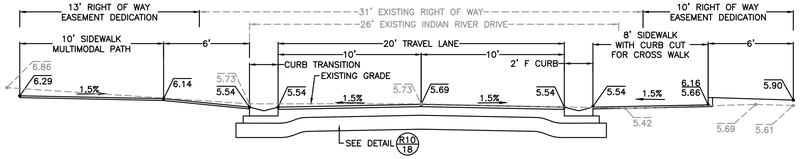

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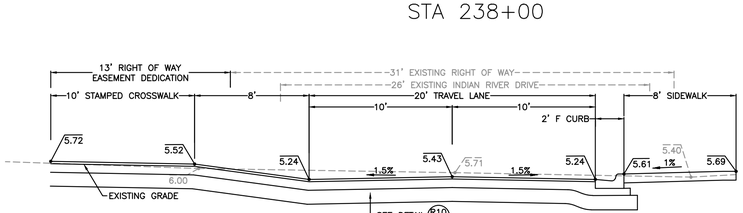

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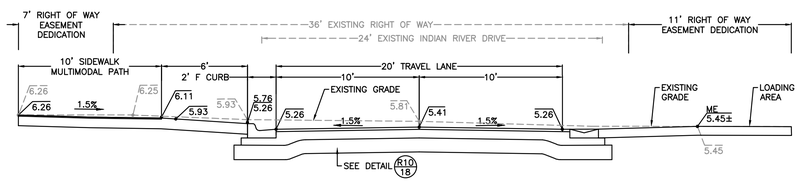

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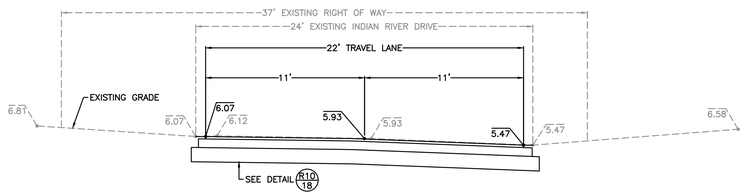

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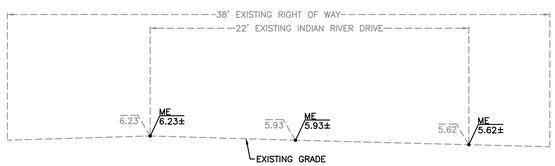

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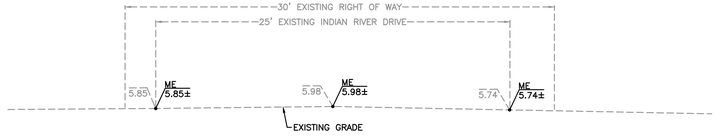

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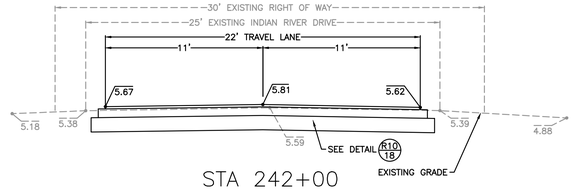

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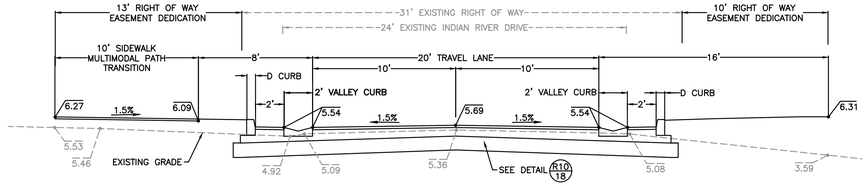

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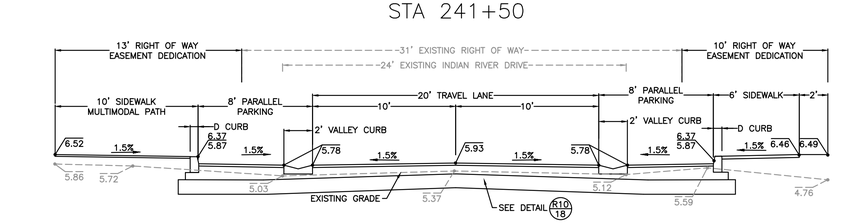

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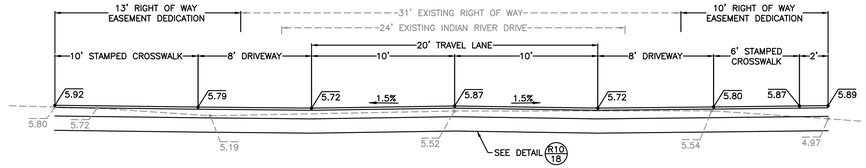

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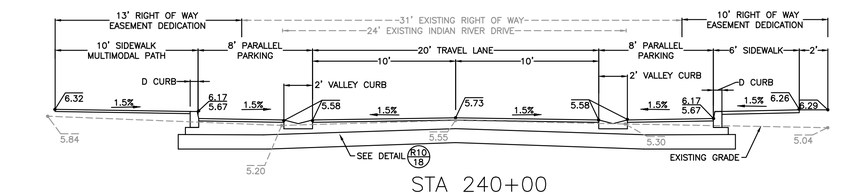

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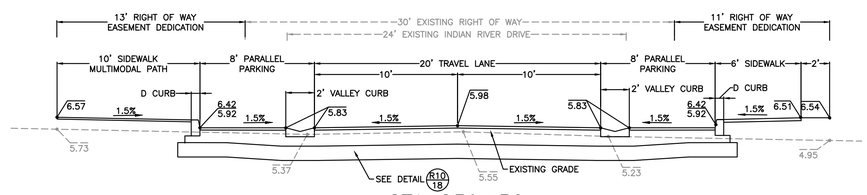

STA 239+50

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CERTIFICATE OF AUTHORIZATION: 28246

INDIAN RIVER DR SECTIONS

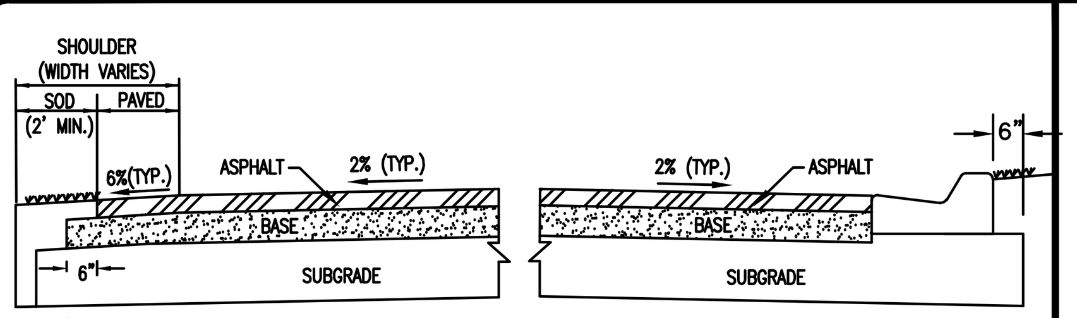
CONCHY JOE'S

JENSEN BEACH, FLORIDA

KENNETH M. RAU LICENSE No. 72738 Feb 17 2020 STATE OF FLORIDA PROFESSIONAL ENGINEER

SHEET NO.

17



6"

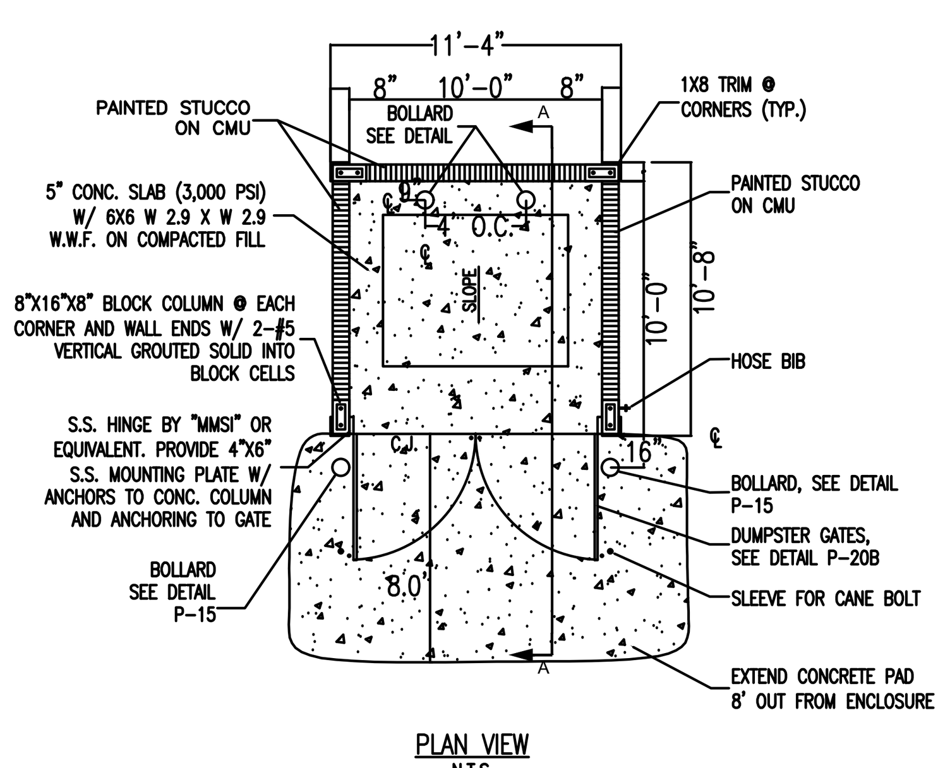
LOCAL RESIDENTIAL (SN-3.0 MIN.)
MIN. E.O.P. ELEVATION > PEAK STAGE OF 10-YR / 24-HR STORM EVENT
- SURFACE COURSE: 1½" TYPE SP-9.5 ASPHALTIC CONCRETE
- BASE COURSE: OPTIONAL BASE GROUP 6 PER FDOT FLEXIBLE PAVEMENT DESIGN MANUAL TABLE 5.6
- SUBGRADE: 12" COMPACTED OR STABLIZED SUBGRADE (LBR-40)

COLLECTOR & LOCAL COMMERCIAL/INDUSTRIAL (SN-3.5 MIN.)
MIN. E.O.P. ELEVATION > PEAK STAGE OF 10-YR / 24-HR STORM EVENT (MINOR)
MIN. E.O.P. ELEVATION > PEAK STAGE OF 25-YR / 24-HR STORM EVENT (MAJOR)
- SURFACE COURSE 1½" TYPE SP-12.5 ASPHALTIC CONCRETE (1ST LIFT)
  1" TYPE SP-9.5 ASPHALTIC CONCRETE (2ND LIFT)
- BASE COURSE: OPTIONAL BASE GROUP 6 PER FLEXIBLE PAVEMENT DESIGN MANUAL TABLE 5.6
- SUBGRADE: 12" COMPACTED OR STABLIZED SUBGRADE (LBR-40)

ARTERIAL (SN-4.0 MIN.)
MIN. E.O.P. ELEVATION > PEAK STAGE OF 25-YR / 72-HR STORM EVENT
- SURFACE COURSE 2" TYPE S-I OR SP-12.5 ASPHALTIC CONCRETE (1ST LIFT)
  1" TYPE SP-9.5 ASPHALTIC CONCRETE (2ND LIFT)
- BASE COURSE: OPTIONAL BASE GROUP 9 PER FDOT FLEXIBLE PAVEMENT DESIGN MANUAL TABLE 5.6
- SUBGRADE: 12" COMPACTED OR STABLIZED SUBGRADE (LBR-40)

NOTES:
1. SHOULDER DESIGN:
   - SURFACE COURSE: SAME AS TRAVEL LANE SURFACE COURSE
   - BASE COURSE: OPTIONAL BASE GROUP 4 PER FDOT FLEXIBLE PAVEMENT DESIGN MANUAL TABLE 5.6
2. STRUCTURAL NUMBER (SN) PER FDOT STANDARDS (REFER TO FDOT FLEXIBLE PAVEMENT DESIGN MANUAL).
3. SUBSTITUTIONS MAY BE APPROVED BY MARTIN COUNTY, PROVIDED MINIMUM SN IS DEMONSTRATED.
4. ASPHALT MIX SHALL NOT CONTAIN MORE THAN 30% RECLAIMED ASPHALT PAVEMENT (R.A.P.)
5. ALL MATERIAL USED WITHIN THE ROADWAY MUST MEET FDOT SPECIFICATIONS AND BE SUPPLIED FROM A FDOT CERTIFIED MINING OPERATION AND ASPHALT PLANT.
6. A MINIMUM OF TWO DENSITY TESTS SHALL BE TAKEN FOR EACH SIX (6) INCH LIFT OF SUB GRADE AND BASE. WHEN THE SPECIFIED COMPACTED BASE IS GREATER THAN SIX AND ONE-HALF (6 ½") INCHES THE BASE SHALL BE CONSTRUCTED IN TWO OR MORE COURSES. PROCTORS FOR MATERIALS USED IN BACK-FILLING SHALL BE OBTAINED BY A CERTIFIED LABORATORY. DENSITY TESTS SHALL BE CONDUCTED BY A CERTIFIED LABORATORY. THE PERCENTAGE OF MAXIMUM DENSITY REQUIRED SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS. A COPY OF ALL COMPLETED AND ACCEPTED DENSITY TESTS SHALL BE FURNISHED TO THE COUNTY ENGINEER'S OFFICE PRIOR TO FINAL INSPECTION.
7. CRUSHED CONCRETE MAY NOT BE USED WITHIN COUNTY-MAINTAINED ROADWAY.
8. ANY IN-LINE PARKING DEFICIENCIES SHALL BE ADDRESSED IN ACCORDANCE TO FDOT SPECIFICATION SECTION 330.

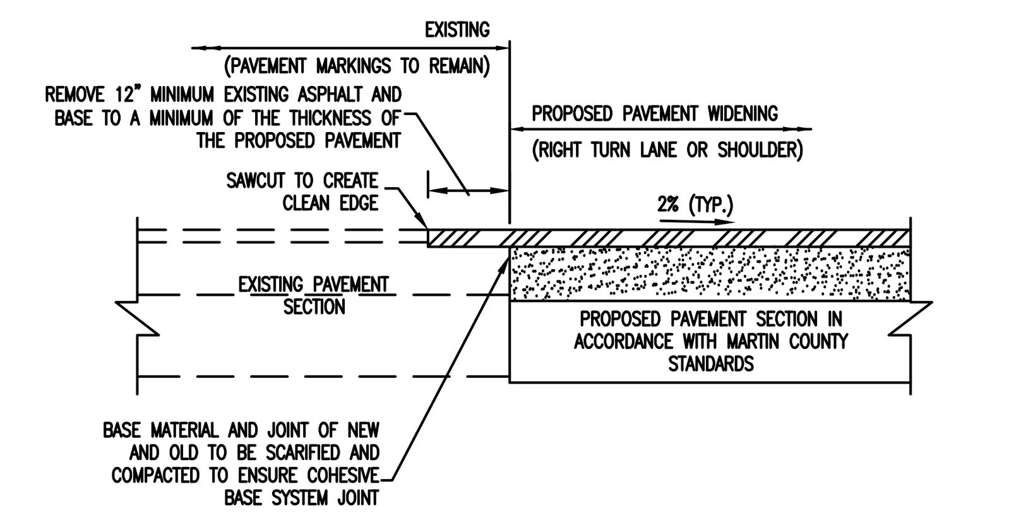
MARTIN COUNTY ENGINEERING - STANDARD DETAILS | FLEXIBLE PAVEMENT | DETAIL R-10 | DATE: 04/23/19



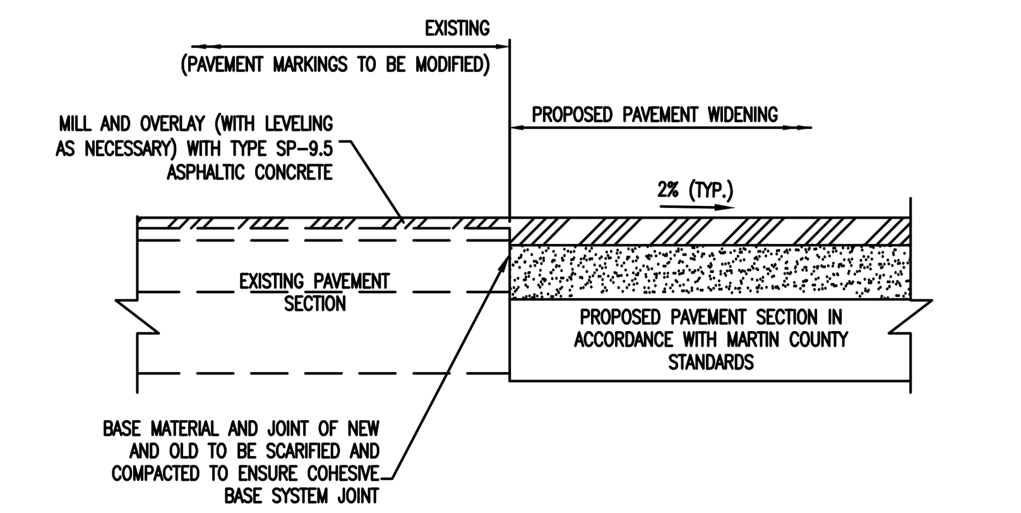
PLAN VIEW
N.T.S.

MARTIN COUNTY ENGINEERING - STANDARD DETAILS | DUMPSTER ENCLOSURE | DETAIL P-20A | DATE: 04/23/19

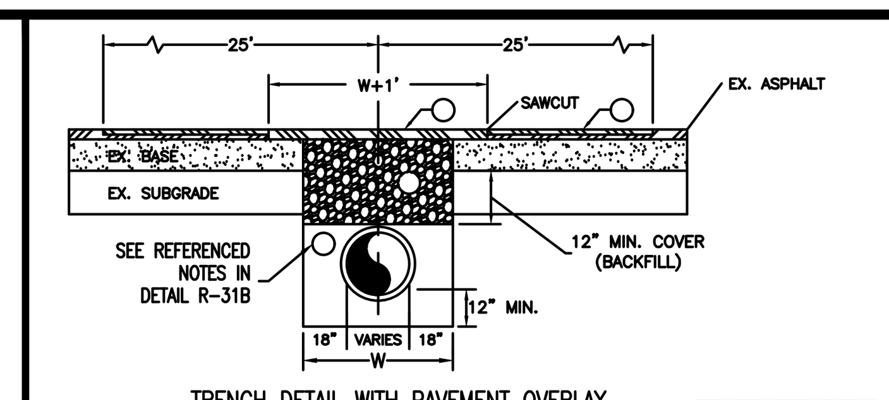
ADDITION OF A RIGHT TURN LANE OR SHOULDER:



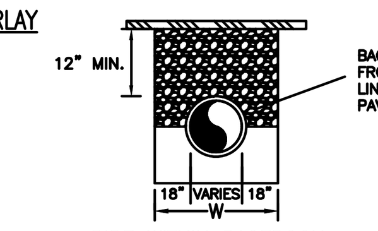
OTHER PAVEMENT ADDITIONS:



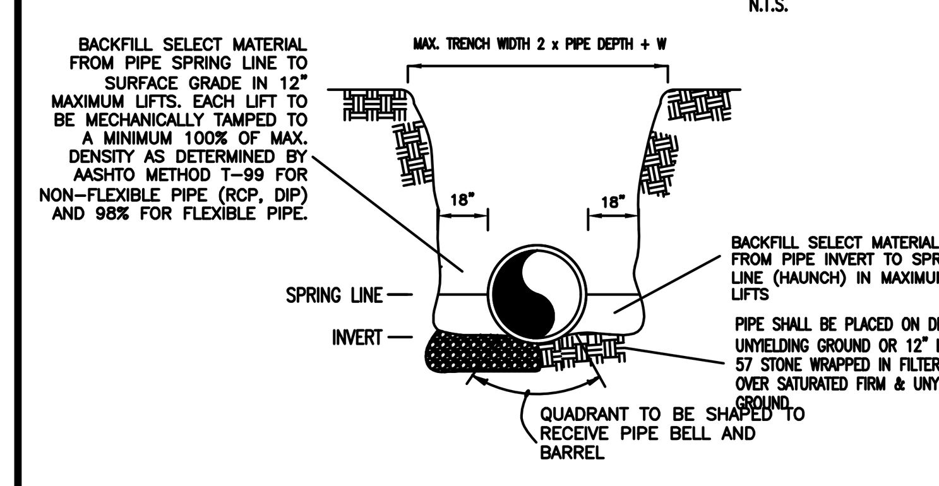
MARTIN COUNTY ENGINEERING - STANDARD DETAILS | PAVEMENT WIDENING | DETAIL R-30 | DATE: 04/23/19



TRENCH DETAIL WITH PAVEMENT OVERLAY
N.T.S.



PIPE WITHIN BASEROCK
N.T.S.

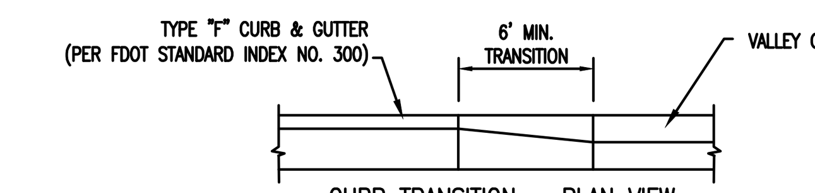


TRENCH DETAIL
N.T.S.

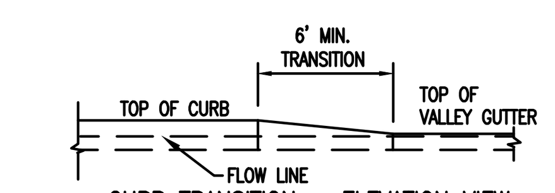
NOTES:

SEE SPECIFICATIONS & NOTES ON DETAIL R-31B

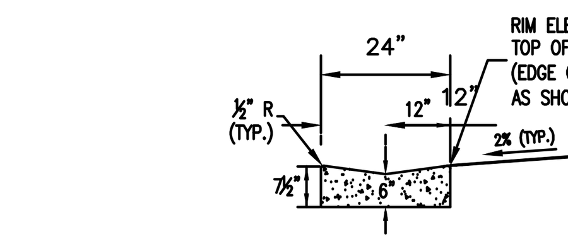
MARTIN COUNTY ENGINEERING - STANDARD DETAILS | TYPICAL OPEN CUT TRENCH | DETAIL R-31A | DATE: 04/23/19



CURB TRANSITION – PLAN VIEW
N.T.S.



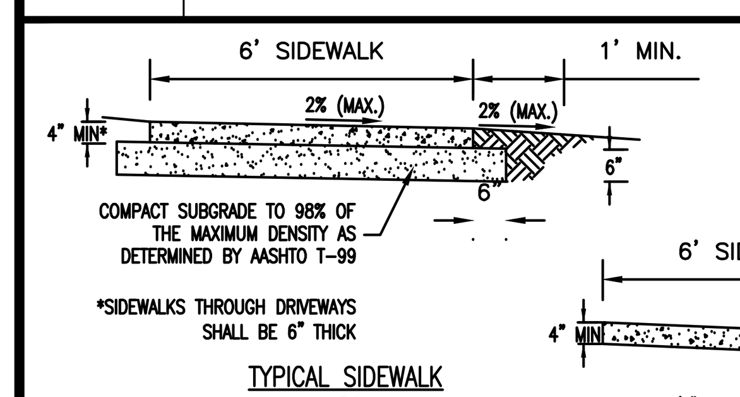
CURB TRANSITION – ELEVATION VIEW
N.T.S.



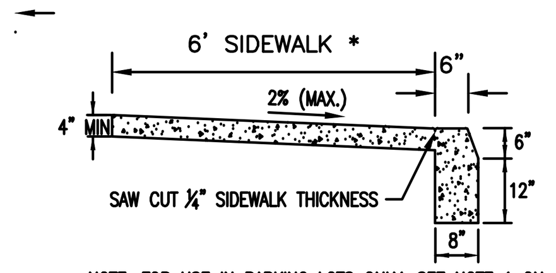
VALLEY GUTTER
N.T.S.

NOTES:
1. FDOT TYPE "D" CURB SHALL NOT BE ACCEPTABLE FOR THE OUTSIDE OF A TRAVEL LANE.
2. ALL CURB, CURB AND GUTTER MATERIALS AND CONSTRUCTION NOT SHOWN HEREIN SHALL BE IN ACCORDANCE WITH APPLICABLE FDOT STANDARD SPECIFICATIONS 520 AND FDOT STANDARD PLANS INDEX 520-001.
3. A DESIRED 8 FEET SHALL BE MAINTAINED BETWEEN EDGE OF TRAVEL LANE AND SIDEWALK WHERE CURB AND GUTTER DOES NOT EXIST (MINIMUM SHALL BE 4.5 FEET, UNLESS OTHERWISE APPROVED BY THE COUNTY ENGINEER).

MARTIN COUNTY ENGINEERING - STANDARD DETAILS | CURB & GUTTER | DETAIL R-40 | DATE: 04/23/19

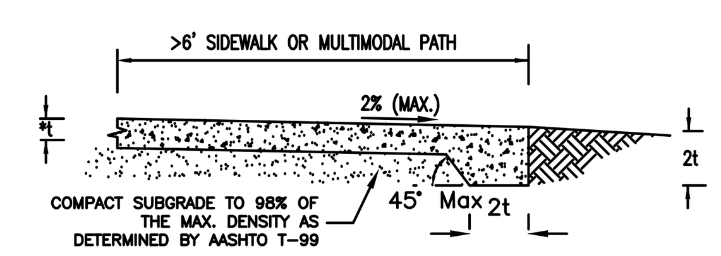


TYPICAL SIDEWALK
N.T.S.



NOTE: FOR USE IN PARKING LOTS ONLY. SEE NOTE 1 ON MARTIN COUNTY PUBLIC WORKS STANDARD DETAILS R-40

TYPE "D" CURB & SIDEWALK COMBINATION
N.T.S.

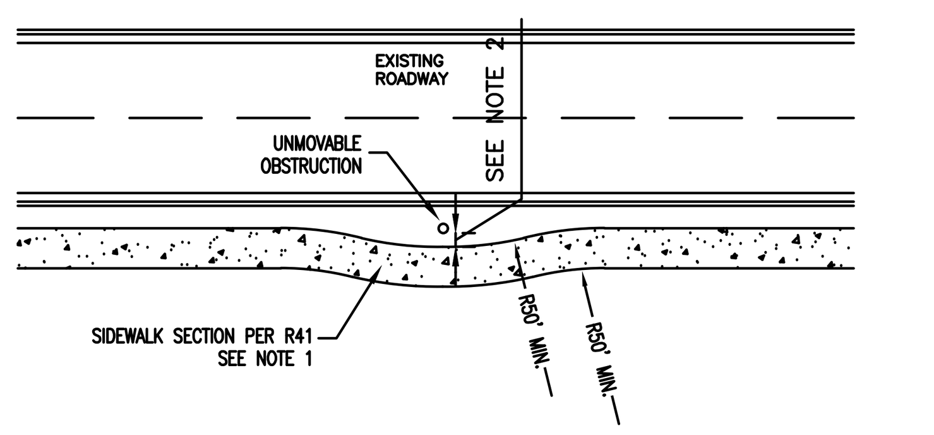


*t IS TYPICALLY 4" – 6" AND SHALL BE SPECIFIED BY ENGINEER OF RECORD

TYPICAL MULTIMODAL PATHWAY or SIDEWALK > 6'
N.T.S.

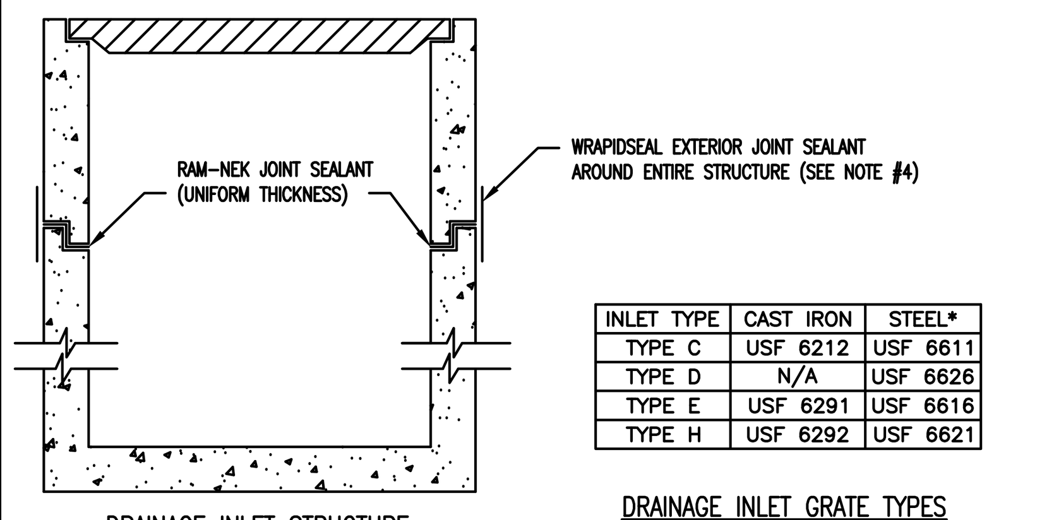
NOTES:
1. SIDEWALK MATERIALS AND CONSTRUCTION SHOWN HEREIN SHALL BE IN ACCORDANCE WITH APPLICABLE FDOT STANDARD SPECIFICATIONS 522 AND FDOT STANDARD PLANS INDEX 522.
2. FIBER-REINFORCED CONCRETE FOR CURBS AND SIDEWALKS SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI AT 28 DAYS WITH A WATER TO CEMENT RATIO NOT MORE THAN 0.53 (LB/LB).
3. THICKENED EDGE SHALL CONTAIN APPLICABLE SUBGRADE COMPACTED TO 98% OF MAXIMUM DRY DENSITY (AASHTO T-99)
4. A DESIRED 8 FEET SHALL BE MAINTAINED BETWEEN EDGE OF TRAVEL LANE AND SIDEWALK WHERE CURB AND GUTTER DOES NOT EXIST (MINIMUM SHALL BE 4.5 FEET, UNLESS OTHERWISE APPROVED BY THE COUNTY ENGINEER).

MARTIN COUNTY ENGINEERING - STANDARD DETAILS | SIDEWALK | DETAIL R-41 | DATE: 04/23/19



NOTES:
1. ALL SIDEWALK TRANSITIONS TO BE CURVILINEAR WITH A MINIMUM EDGE OF SIDEWALK RADIUS OF 50 FEET.
2. NO MINIMUM OFFSET REQUIRED FOR POWER POLE. MINIMUM OFFSET FOR FIRE HYDRANT OR OTHER OBSTRUCTION IS 1-FOOT.

MARTIN COUNTY ENGINEERING - STANDARD DETAILS | MEANDERING SIDEWALK | DETAIL R-43 | DATE: 04/23/19



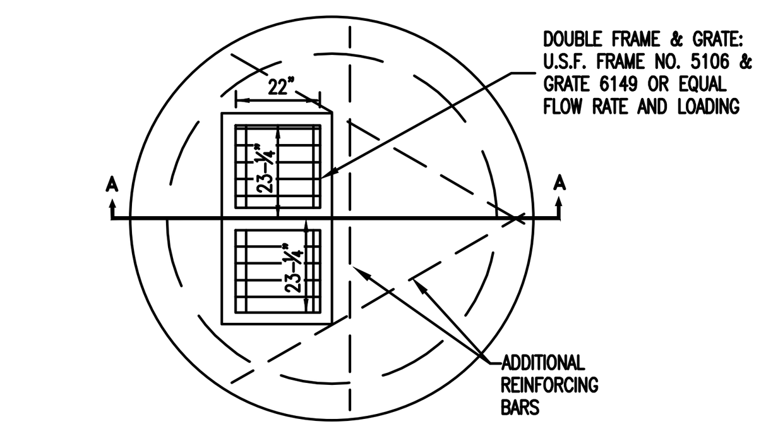
DRAINAGE INLET STRUCTURE
N.T.S.

INLET TYPE	CAST IRON	STEEL*
TYPE C	USF 6212	USF 6611
TYPE D	N/A	USF 6626
TYPE E	USF 6291	USF 6616
TYPE H	USF 6292	USF 6621

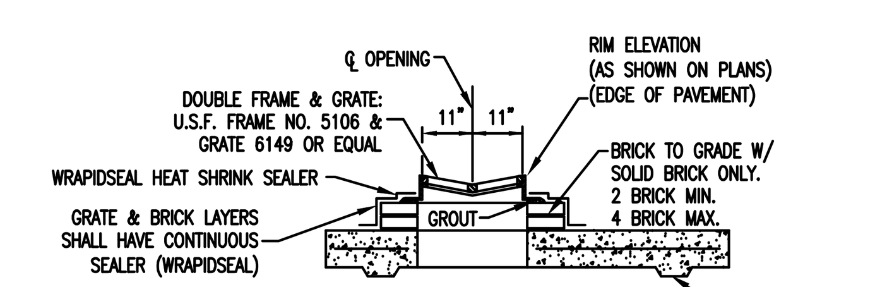
DRAINAGE INLET GRATE TYPES
*SEE NOTE #9

NOTES:
1. ALL INLET MATERIALS AND CONSTRUCTION NOT SHOWN HEREIN SHALL BE IN ACCORDANCE WITH FDOT STANDARD SPECIFICATION 425 AND FDOT STANDARD PLANS INDEX SERIES 425.
2. USE OF FDOT TYPE "9" CURB INLETS AND VALLEY GUTTER INLETS SHALL ONLY BE ACCEPTABLE ON LOCAL ROADWAYS AND WITHIN PARKING AREAS.
3. USE OF FDOT TYPE "10" CURB INLETS IS NOT ACCEPTABLE AT ANY LOCATION UNLESS APPROVED BY COUNTY ENGINEER.
4. INLET SHALL BE 1-PIECE MONOLOTHIC. INLETS THAT REQUIRE TWO PIECES AS REQUIRED BY LOAD CONSTRAINTS ARE TO CONTAIN SEALED KEY WAYS WITH RAM-NEK ASPHALTIC SEALANT AND EXTERIOR JOINT SEALANT WITH WRAPIDSEAL OR APPROVED EQUIVALENT. ANY PROPOSED 2-PIECE STRUCTURE SHALL BE APPROVED BY THE COUNTY ENGINEER.
5. ALL INLETS SHALL HAVE A MINIMUM SUMP OF 18", UNLESS OTHERWISE APPROVED BY THE COUNTY ENGINEER.
6. DITCH BOTTOM INLETS SHALL NOT HAVE A SEPARATED TOP SLAB UNLESS OTHERWISE APPROVED BY THE COUNTY ENGINEER.
7. ALL INLETS SHALL BE PLACED OVER DRY, FIRM AND UNYIELDING MATERIAL OR IN ACCORDANCE WITH STANDARD DETAIL R-31A TYPICAL TRENCH DETAIL.
8. DITCH BOTTOM INLETS SHALL HAVE ANGLE IRON IN THE GRATE RECESSES TO ACCOMMODATE H-20 LOADING.
9. ALL INLET GRATES SHALL BEAR TRAFFIC LOADS AND SHALL BE CAST IRON IF APPLICABLE, OTHERWISE INLET GRATES SHALL BE HOT-DIPPED GALVANIZED STEEL.

MARTIN COUNTY ENGINEERING - STANDARD DETAILS | LOCAL ROAD INLET | DETAIL R-50 | DATE: 04/23/19



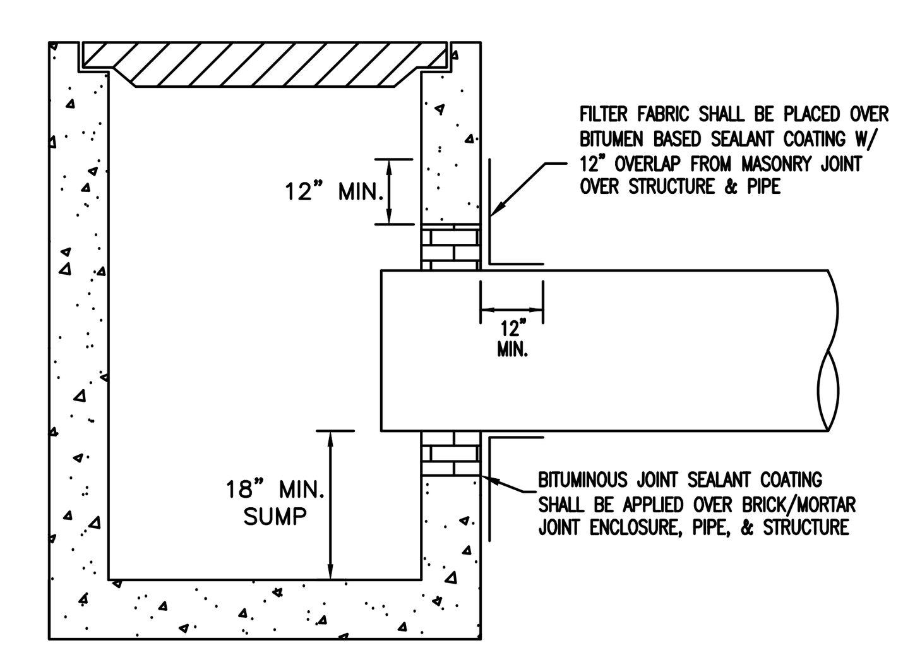
VALLEY GUTTER INLET DETAIL – PLAN VIEW
N.T.S.



VALLEY GUTTER INLET DETAIL
SECTION A-A N.T.S.

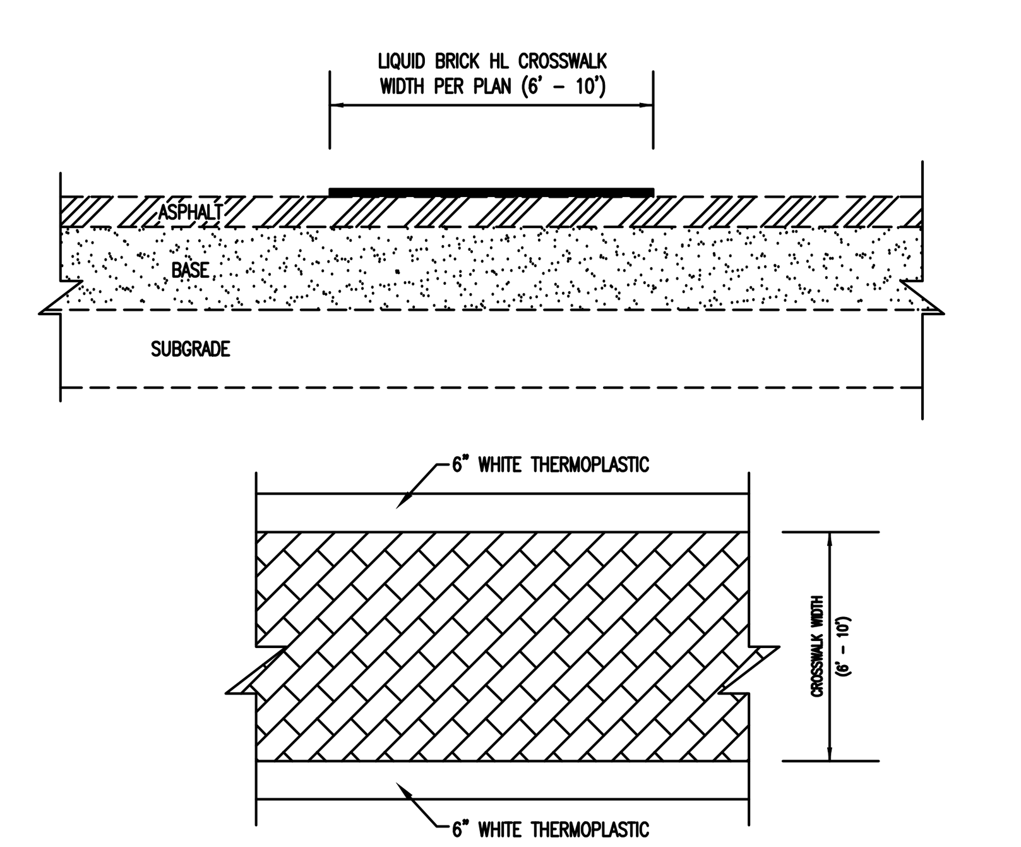
VALLEY GUTTER INLETS:
1. ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI AT 28 DAYS.
2. KEY CUT IS REQUIRED WITH PRECAST TOPS ONLY. IF TOP SLAB IS CAST IN PLACE WITHOUT KEYWAY, 12" LONG NO. 4 REBAR DOWELS SHALL BE DRILLED AND EXPOXIED AT 12" O.C. TO SECURE TOP SLAB TO SIDE WALLS.
3. CENTERLINE OF OPENING SHALL BE OFFSET FROM CENTERLINE OF STRUCTURE.
4. GRATE & MANHOLE RINGS SHALL BE GROUTED IN PLACE.
5. GRATE & MANHOLE SEAT, GROUT, BRICKS, AND STRUCTURE SHALL BE CONTINUOUSLY ENCAPSULATED WITH WRAPIDSEAL JOINT SELAER

MARTIN COUNTY ENGINEERING - STANDARD DETAILS | VALLEY GUTTER INLET | DETAIL R-51 | DATE: 04/23/19



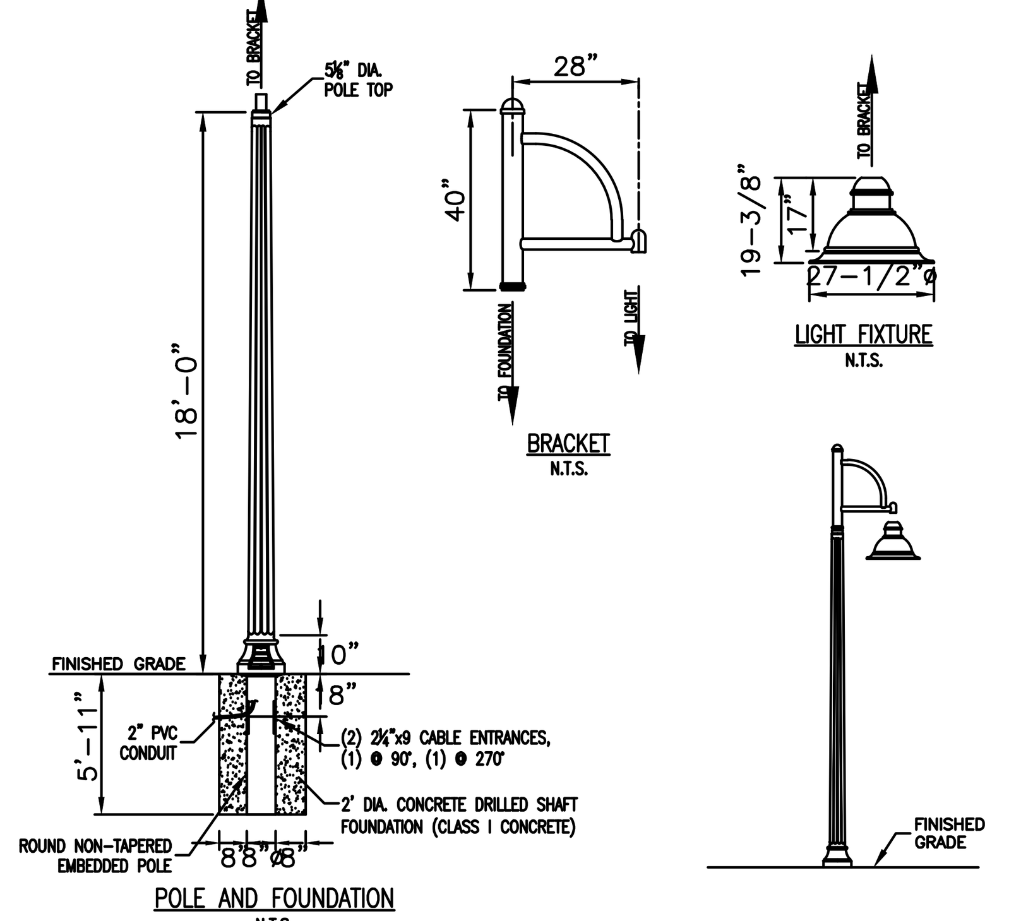
NOTES:
1. ALL INLET MATERIALS AND CONSTRUCTION NOT SHOWN HEREIN SHALL BE IN ACCORDANCE WITH FDOT STANDARD SPECIFICATION 425 AND FDOT STANDARD PLANS INDEX SERIES 425.
2. DRAINAGE STRUCTURE-PIPE CONNECTION MASONRY JOINT SHALL BE FILLED WITH MIXTURE OF APPROVED BRICK AND TYPE I AND/OR II CONCRETE MORTAR.
3. ALL MASONRY JOINT SEAL BRICK OR WALL MATERIAL UNIT SHALL BE SATURATED BEFORE GROUT SEALING.
4. ALL MASONRY JOINT CONCRETE MORTAR SHALL BE TYPE I AND/OR II PREMIXED SILICA SAND-PORTLAND CEMENT (3:1 MAX). NO MIXING OF SAND-CEMENT IS PERMITTED ON SITE UNLESS APPROVED BY THE COUNTY ENGINEER.

MARTIN COUNTY ENGINEERING - STANDARD DETAILS | PIPE - STRUCTURE CONNECTION | DETAIL R-60 | DATE: 04/23/19



NOTES:
1. THE STAMPED APPLICATION SHALL BE AN FDOT APPROVED LIQUID BRICK- HF W/ NATURA COLORED AGGREGATE WITH A HIGH FRICTION SURFACING SYSTEM COMPRISED OF A THERMOSETTING MODIFIED EPOXY COMPOUND MANUFACTURED BY ATLANTIC PAVING COMPANY INC., OR APPROVED EQUAL.
2. CROSSWALK EPOXY-AGGREGATE COMPOUND MAT MUST HAVE PARALLEL 12" WHITE STRIPING ON BOTH SIDES OF PATTERN OR 12" WHITE THERMOPLASTIC ON ADJACENT ASPHALT.
3. SUBSTITUTION REQUESTS MUST BE SUBMITTED AND APPROVED BY COUNTY ENGINEER BEFORE APPLICATION.

MARTIN COUNTY ENGINEERING - STANDARD DETAILS | CROSSWALK (STAMPED) | DETAIL R-120B | DATE: 04/23/19



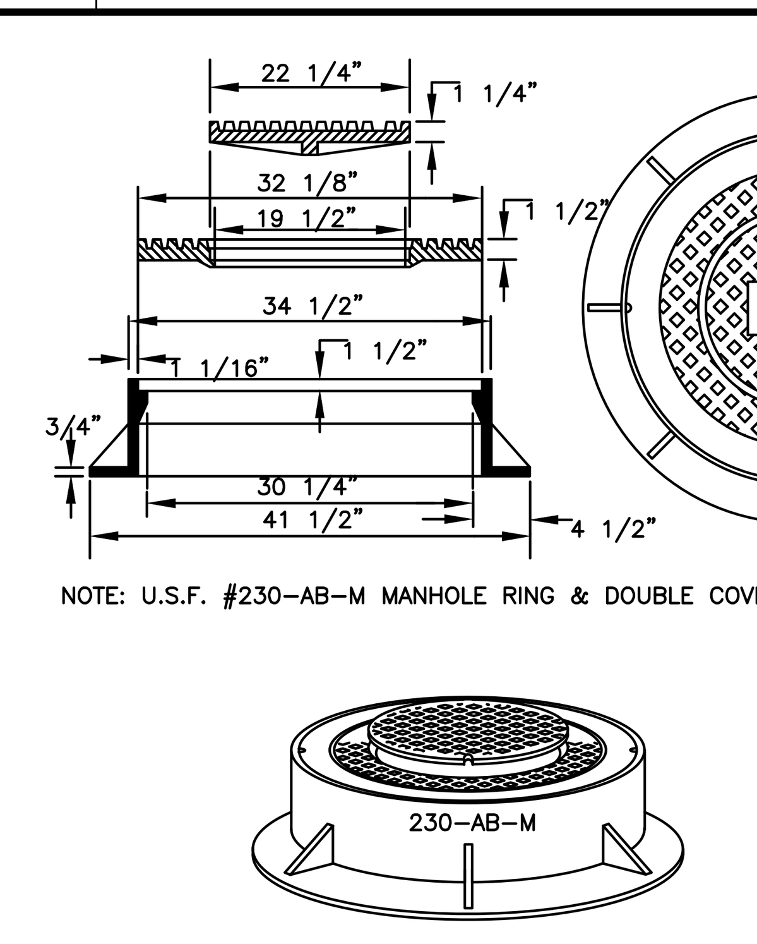
POLE AND FOUNDATION
N.T.S.

BRACKET
N.T.S.

LIGHT FIXTURE
N.T.S.

NOTES:
1. WIRING SHALL BE IN ACCORDANCE WITH THE FDOT STANDARD plans INDEX 715-001, LATEST EDITION.
2. POLE: AMERON CO. CAT. #VEF5.5(233A)T6; TENON SIZE 4" DIA. X 9" LONG WITH ACRYLIC ANTI-GRAFFITI COATING OR APPROVED EQUAL.
3. FIXTURE: LUMEC CO. CAT. #DMS50-80W48LED-4K-T-LE3F-240-GB2TX OR APPROVED EQUAL.
4. BRACKET: LUMEC CO. CAT. #VR308-1A-BG2TX OR APPROVED EQUAL.
5. FOUNDATION: 3,000 PSI MIN. CLASS I CONC, 2' DIA., 5'-11" DEEP W/ POLE DIRECTLY EMBEDDED. APPROX. 0.61 CY EA.

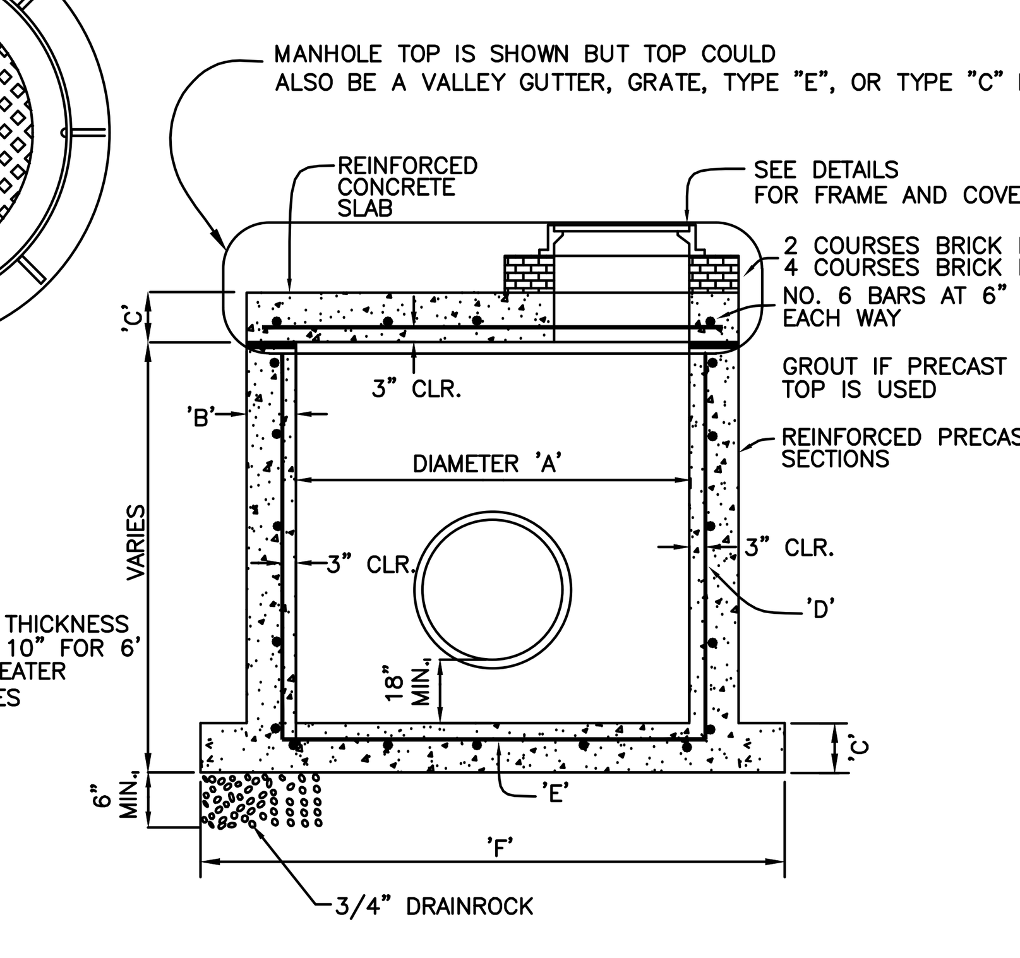
MARTIN COUNTY ENGINEERING - STANDARD DETAILS | STREET LIGHT | DETAIL R-130 | DATE: 04/23/19



NOTE: U.S.F. #230-AB-M MANHOLE RING & DOUBLE COVER,

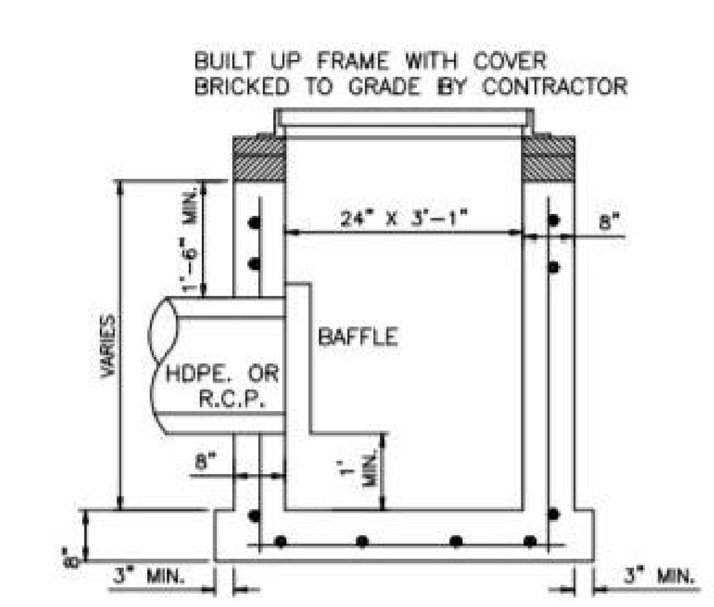
STORM DRAINAGE
MANHOLE COVER

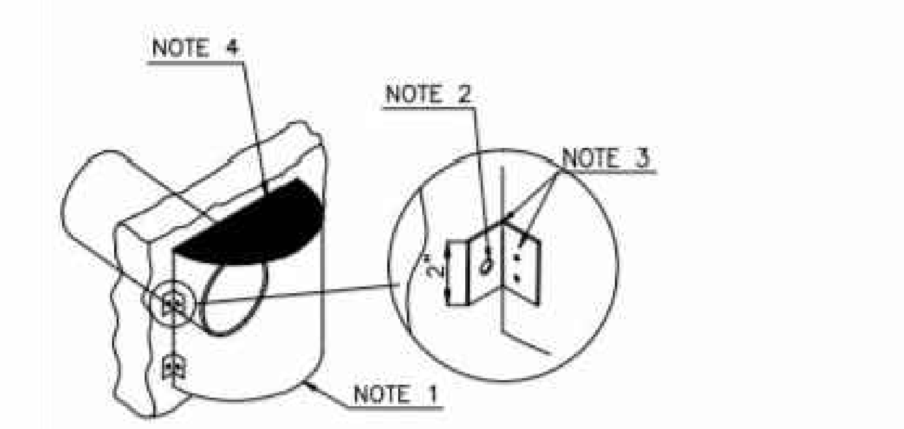
NOTES:
1. U.S.F #230-AB-M MANHOLE RING & DOUBLE COVER. APPROX. TOTAL WEIGHT 605 POUNDS.
2. MANHOLE COVER SHALL BE IMPRINTED WITH "STORM SEWER" AND WITH NOTES "CONFINED SPACE".
3. PAVED AREAS – SET FRAMES AT FINISED GRADE, UNPAVED AREAS – SET FRAMES AT FINISHED GRADE + 0.15.



TYPE	'A'	'B'	'C'	'D'	'E'	'F'
4' DIA	4'-0"ø	8"	8"	#5@12"C.C.E.W.	#5@12"C.C.E.W.	6'-4"ø
5' DIA	5'-0"ø	8"	8"	#5@12"C.C.E.W.	#5@12"C.C.E.W.	6'-4"ø

DRAINAGE MANHOLE STRUCTURE 1





BAFFLE DETAIL BRACKET DETAIL

NOTES
1) BAFFLE SHALL BE C.M.P. OR C.A.P. SECTION (OUTFALL DIAMETER PLUS 6").
2) 1/2" GALV. WEDGE ANCHORS (ULT. PULLOU 6000, ULT. SHEAR 5900.)
3) WELD OR 2-3/8" THRU BOLTS
4) BOLTED TO WALL WITH TOP CAPPED. (WATER TIGHT)

NOTES
1) MINIMAL CONC. STRENGTH FOR ALL CATCH BASINS AND MANHOLE STRUCTURES SHALL BE 4000 PSI.
2) CONTRACTOR IS RESPONSIBLE FOR FINAL ELEVATION AND LOCATION ADJUSTMENTS OF CATCH BASINS, GRATES, MANHOLES DUE TO FIELD CONSTRAINTS.
3) THE 12" WEEP HOLE SHALL NOT BE USED IF THE BOTTOM OF THE INLET OR MANHOLE IS BELLOW THE NORMAL WATER TABLE, UNLESS OTHERWISE SHOWN ON PLANS.

BAFFLE DETAIL 1

NO.	DATE:	REVISION:	BY
1	8-20-19	PER MARTIN COUNTY COMMENTS	AT
2	9-25-19	PER REVISED MEAN HIGH WATER LINE (MHWL)	AT
3	12-10-19	PER MARTIN COUNTY COMMENTS	FM
4	1-8-20	REVISIONS PER MARTIN COUNTY	FM
5	2-17-20	PER MARTIN COUNTY UTILITY COMMENTS	FM
6			
7			
8			

CALL 48 HOURS BEFORE YOU DIG
811

VERTICAL DATUM NAVD 88
DRAWN: D.W. 3-5-2018
PROJECT: A0102
FILE: BASE – Indian River Dr.dwg

THE MILCOR GROUP, INC.
CIVIL ENGINEERS
10975 SE FEDERAL HIGHWAY
HOBE SOUND, FL 33455
PH: (772)223-8850
FAX: (772) 223-8851
WWW.THEMILCORGROUP.COM
CERTIFICATE OF AUTHORIZATION: 28246

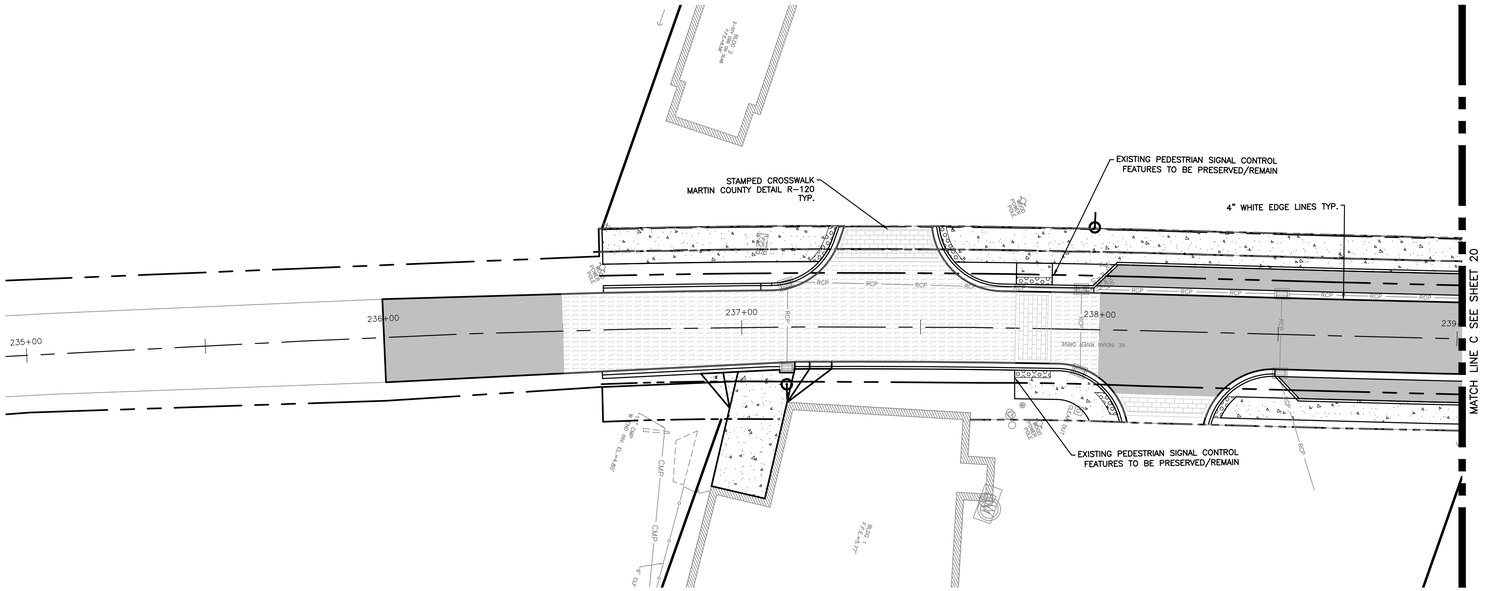
INDIAN RIVER DR DETAILS

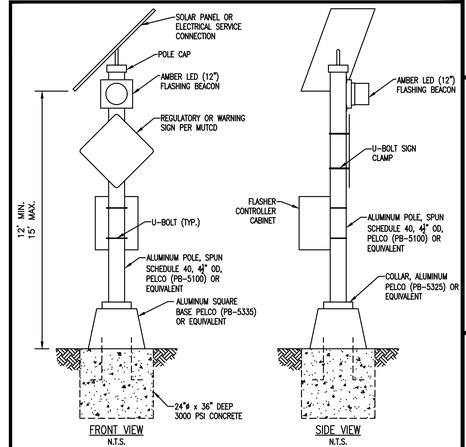
CONCHY JOE'S

JENSEN BEACH, FLORIDA

KENNETH M. RAU LICENSE No. 77738 Feb 17 2020 STATE OF FLORIDA PROFESSIONAL ENGINEER

SHEET NO.
18

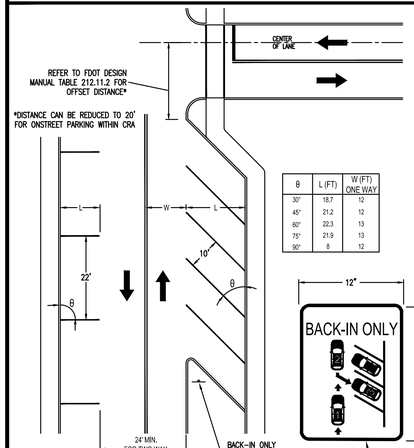




NOTES:

1. INSTALLATION LOCATIONS SHALL BE APPROVED BY COUNTY ENGINEER.
2. COMPONENTS SPECIFIED FOR INSTALLATION SHALL BE APPROVED BY COUNTY ENGINEER.
3. SOLAR FLASHER CABINET TO BE BY TRANSPORTATION CONTROL SYSTEMS OR EQUAL.
4. ALL FASTENERS TO BE STAINLESS STEEL.
5. UNLESS A DIFFERENT SPECIFICATION IS CALLED OUT HERE, COMPLIANCE WITH THE STANDARDS FOUND WITHIN FDOT STANDARD PLANS INDEX 700-120 IS REQUIRED.

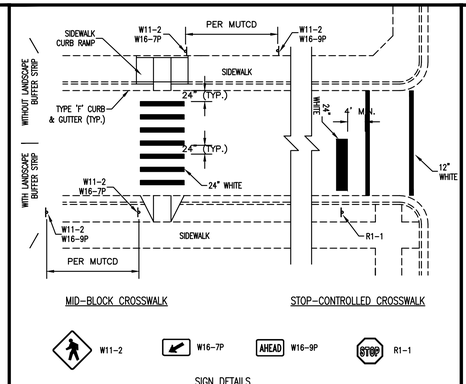
MARTIN COUNTY ENGINEERING - STANDARD DETAILS | DETAIL R-170
FLASHING BEACON | DATE: 04/23/19



θ	L (FT)	W (FT) ONE WAY
30°	18.7	12
45°	21.2	12
60°	22.3	13
75°	21.9	13
90°	8	12

NOTE:
1. BACK-OUT PARKING UTILIZING THE PUBLIC RIGHT-OF-WAY AS AN ACCESS AISLE IS PROHIBITED EXCEPT WHEN APPLIED TO SINGLE-FAMILY AND DUPLEX LAND USES OR ON A STREET WHERE THE POSTED SPEED LIMIT IS 30 MPH OR LESS.
2. BACK-IN ONLY SIGN SHALL CONSIST OF A GREEN LEGEND AND BORDER ON A WHITE BACKGROUND.

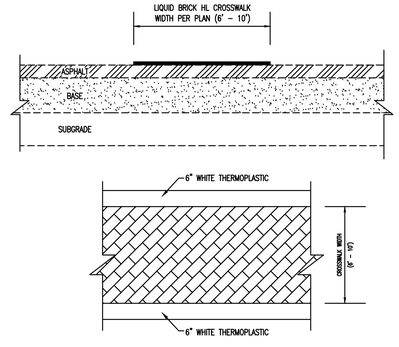
MARTIN COUNTY PUBLIC WORKS - STANDARD DETAILS | DETAIL R-81
BACK-IN PARKING | DATE: 04/23/19



NOTES:

1. ALL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC IN ACCORDANCE WITH FDOT STANDARD SPECIFICATION 711.
2. MID-BLOCK CROSSWALK MARKINGS SHALL BE WHITE SPECIAL EMPHASIS.
3. STOP-CONTROLLED CROSSWALK MARKINGS SHALL BE STANDARD.
4. PUBLIC SIDEWALK CURB RAMPS AND DETECTABLE WARNING SURFACES SHALL BE DESIGNED IN ACCORDANCE WITH FDOT STANDARD PLANS INDEX 522. DETECTABLE WARNING SURFACES SHALL BE CAST IN PLACE ARMOR TILE OR APPROVED EQUAL AND BRICK RED IN COLOR. BOLT OR SCREW DOWN TYPES ARE PROHIBITED.
5. CROSSWALK WARNING SIGNAGE SHALL BE YELLOW, UNLESS CROSSWALK IS LOCATED IN A SCHOOL ZONE WHERE LIME-GREEN SHALL BE USED.
6. SIGN INSTALLATION SHALL BE PER TRAFFIC CONTROL DETAIL, R-140A.

MARTIN COUNTY ENGINEERING - STANDARD DETAILS | DETAIL R-120A
CROSSWALK | DATE: 04/23/19



NOTES:

1. THE STAMPED APPLICATION SHALL BE AN FDOT APPROVED LIQUID BRICK- HF W/ NATURA COLORED AGGREGATE WITH A HIGH FRICTION SURFACING SYSTEM COMPRISED OF A THERMOSETTING MODIFIED EPOXY COMPOUND MANUFACTURED BY ATLANTIC PAVING COMPANY INC., OR APPROVED EQUAL.
2. CROSSWALK EPOXY-AGGREGATE COMPOUND MAT MUST HAVE PARALLEL 12" WHITE STRIPING ON BOTH SIDES OF PATTERN OR 12" WHITE THERMOPLASTIC ON ADJACENT ASPHALT.
3. SUBSTITUTION REQUESTS MUST BE SUBMITTED AND APPROVED BY COUNTY ENGINEER BEFORE APPLICATION.

MARTIN COUNTY ENGINEERING - STANDARD DETAILS | DETAIL R-120B
CROSSWALK (STAMPED) | DATE: 04/23/19

MAINTENANCE OF TRAFFIC CONTROL DEVICES

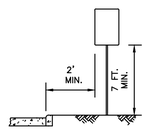
TRAFFIC SIGNS ON PRIVATELY MAINTAINED ROADS ARE THE RESPONSIBILITY OF THE MAINTAINING ENTITY, TYPICALLY, THE HOMEOWNERS OR PROPERTY OWNERS ASSOCIATION. WHERE PRIVATELY MAINTAINED ROADS INTERSECT STATE OR COUNTY MAINTAINED ROADS, THE TRAFFIC SIGNS (SUCH AS STREET NAME "BLADES" AND REGULATORY SIGNS) AND MARKINGS (SUCH AS STOP BARS) "SHALL BE THE RESPONSIBILITY OF THE PROPERTY OWNER AND CURRENT USER ENTITY" NOT THE COUNTY OR THE STATE. PRIOR TO THE MARTIN COUNTY SHERIFF'S OFFICE PATROLLING ON PRIVATE ROADS, AN AGREEMENT FOR TRAFFIC CONTROL ON PRIVATE ROADS MUST BE EXECUTED WITH MARTIN COUNTY. THE HOMEOWNERS OR PROPERTY OWNERS ASSOCIATION SHALL SUBMIT A CERTIFICATION OF COMPLIANCE WITH THESE REGULATIONS PRIOR TO THE EXECUTION OF THE AGREEMENT FOR TRAFFIC CONTROL ON PRIVATE ROADS; THE CERTIFICATION MUST BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF FLORIDA.

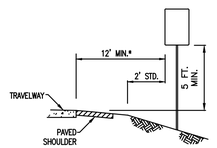
THE DESIGN AND MANUFACTURING OF ALL SIGNING AND MARKINGS REQUIRED FOR THE OPERATION OF THE CONNECTION (SUCH AS STOP BARS AND STOP SIGNS FOR THE CONNECTION) SHALL BE THE RESPONSIBILITY OF THE PROPERTY OWNER AND CURRENT ENTITY RESPONSIBLE FOR THE CONNECTION, OR GOVERNMENTAL ENTITY HAVING JURISDICTION OVER THE CONNECTION, ROAD, OR INTERSECTION OF THE COUNTY ROAD REGARDLESS OF THE OWNER OF THE RIGHT-OF-WAY AS PROVIDED IN CHAPTER 316, FLORIDA STATUTES.

ALL TRAFFIC CONTROL DEVICES INSTALLED ON COUNTY OR PRIVATELY MAINTAINED ROADS SHALL BE IN CONFORMANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), THE FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) STANDARD PLANS, AND THESE STANDARDS.

PLACEMENT OF TRAFFIC CONTROL DEVICES

PER FLORIDA STATUTE 316.0747, THE PLACEMENT OR POSITION OF TRAFFIC CONTROL DEVICES ALONG ROADS WHERE THE PUBLIC IS INVITED, INCLUDING THOSE DEVICES INSTALLED ON PRIVATE PROPERTY, SHALL MEET THE STATE STANDARDS ADOPTED BY THE FDOT, WHICH INCLUDES THOSE IDENTIFIED IN THE MUTCD. IF THE STANDARD POSITION CANNOT BE ATTAINED DUE TO IMMOBILE OBSTRUCTIONS, ALTERNATIVE PLACEMENT MAY BE PERMITTED BY THE COUNTY ENGINEER.





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MARTIN COUNTY ENGINEERING - STANDARD DETAILS | DETAIL R-140A
TRAFFIC CONTROL | DATE: 04/23/19

SIGNS AND MARKINGS

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R1-2 — YIELD SIGNS SHALL BE USED ONLY TO CONTROL MERGE MOVEMENTS AND TO ASSIGN THE RIGHT OF WAY AT THE ENTRANCE OF A ROUNDABOUT INTERSECTION. YIELD SIGNS ARE TRIANGULAR AND SHALL BE AT LEAST 36 INCHES ALONG EACH SIDE WITH WHITE DIAMOND GRADE SHEETING BACKGROUND AND CLEAR RED ELECTROCUT OVERLAY OR SILKSCREENED WITH CLEAR ULTRAVIOLET RESISTANT OVERLAY.

R3-1 — NO RIGHT TURN OR NO LEFT TURN SIGNS SHOULD BE PLACED WHERE THEY WILL BE MOST EASILY SEEN BY ROAD USERS WHO MIGHT BE INTENDING TO TURN. THESE SIGNS ARE THE ONLY SIGNS (OTHER THAN THE SUPPLEMENTAL PLAQUE) PERMITTED TO BE PLACED ON THE POST IN CONJUNCTION WITH A STOP OR YIELD WHEN LOCATED ON OR NEAR THE RIGHT CORNER OF THE INTERSECTION. TURN PROHIBITION SIGNS SHALL BE AT LEAST 24 INCHES HIGH BY 24 INCHES WIDE WITH WHITE DIAMOND GRADE SHEETING BACKGROUND AND CLEAR RED ELECTROCUT OVERLAY OR SILKSCREENED WITH CLEAR ULTRAVIOLET RESISTANT OVERLAY.

R2-1 — SPEED LIMITS SHALL BE ESTABLISHED IN ACCORDANCE WITH THE FDOT SPEED ZONING FOR HIGHWAYS, ROADS, AND STREETS IN FLORIDA. SPEED LIMIT SIGNS SHALL BE AT LEAST 30 INCHES HIGH BY 24 INCHES WIDE WITH WHITE DIAMOND GRADE SHEETING BACKGROUND OR SILKSCREENED WITH CLEAR ULTRAVIOLET RESISTANT OVERLAY.

THE MINIMUM POSTED SPEED IN MARTIN COUNTY IS 25 MPH; HOWEVER, SCHOOL ZONES MAY BE POSTED AT 20 MPH.

ONLY SCHOOL WARNING SIGNS, INCLUDING THE "SCHOOL" PORTION OF THE SCHOOL SPEED LIMIT SIGN AND INCLUDING ANY SUPPLEMENTAL PLAQUES USED IN ASSOCIATION WITH THESE WARNING SIGNS, SHALL HAVE A FLUORESCENT YELLOW-GREEN BACKGROUND WITH A BLACK LEGEND AND BORDER.

ALL OTHER WARNING SIGNS SHALL HAVE A FLUORESCENT YELLOW BACKGROUND WITH A BLACK LEGEND AND BORDER.

DEAD END — THE DEAD END SIGN (OR FLAG ON A STREET NAME) BLADE SHALL BE USED AT THE ENTRANCE OF A SINGLE ROAD OR STREET THAT TERMINATES IN A DEAD END OR CUL-DE-SAC.

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THE TOP PORTION OF THE PARKING BY DISABLED PERMIT ONLY SIGN SHALL DISPLAY WHITE REFLECTIVE LEGEND AND BORDER WITH A BLUE REFLECTIVE BACKGROUND. THE BOTTOM PORTION OF THE SIGN SHALL DISPLAY AN OPAQUE BLACK LEGEND AND BORDER WITH A REFLECTIVE WHITE BACKGROUND. SIGN FABRICATION SHALL CONSIST OF ONE PANEL.

MARTIN COUNTY ENGINEERING - STANDARD DETAILS | DETAIL R-140B
TRAFFIC CONTROL | DATE: 04/23/19

NO.	DATE:	REVISION:	BY:
1	2-17-20	PER MARTIN COUNTY UTILITY COMMENTS	FM
2	1-8-20	REVISIONS PER MARTIN COUNTY	FM
3	12-10-19	PER MARTIN COUNTY COMMENTS	FM
4	9-25-19	PER REVISED MEAN HIGH WATER LINE (MHWL)	AT
5	8-20-19	PER MARTIN COUNTY COMMENTS	AT

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VERTICAL DATUM NAVD 88
DRAWN: D.W. 3-5-2018
PROJECT: A0102
FILE: BASE – Indian River Dr.dwg

THE MILCOR GROUP, INC.
CIVIL ENGINEERS
10975 SE FEDERAL HIGHWAY
HOBE SOUND, FL 33455
PH: (772)223-8850
FAX: (772) 223-8851
WWW.THEMILCORGROUP.COM
CERTIFICATE OF AUTHORIZATION: 28246

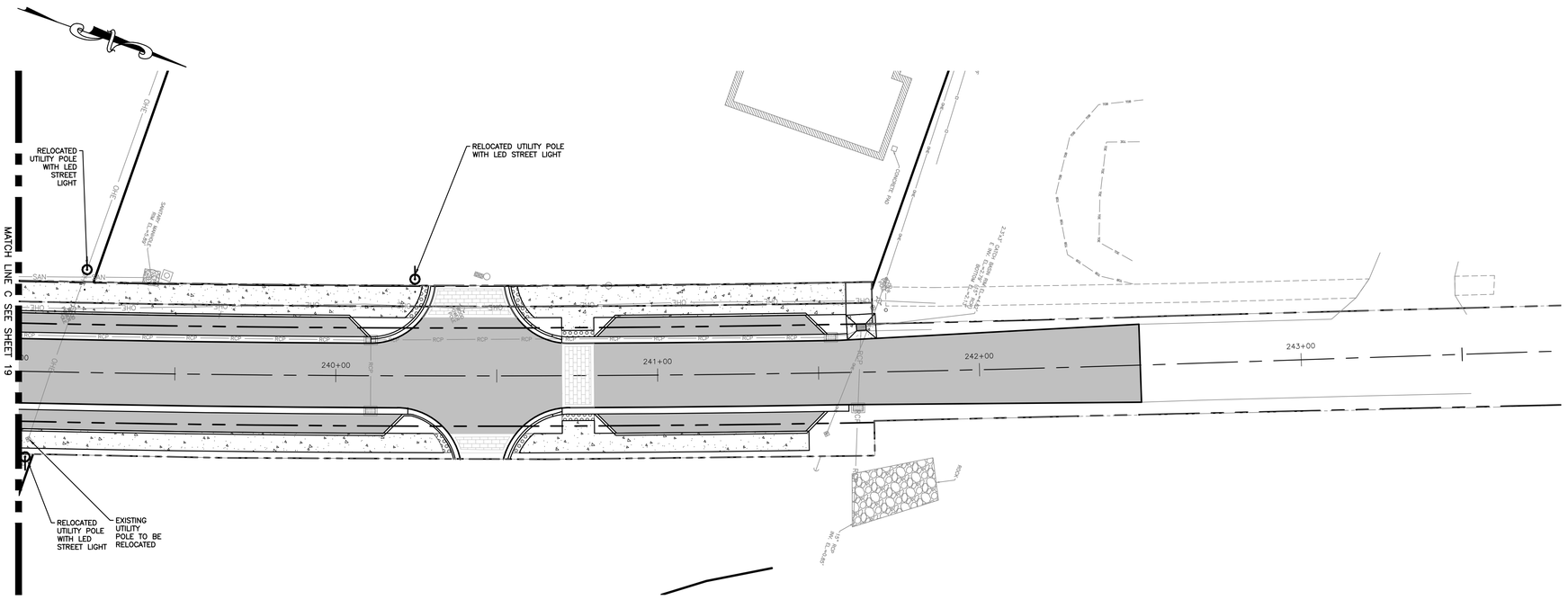
INDIAN RIVER DR
SIGNAGE & STRIPING PLAN

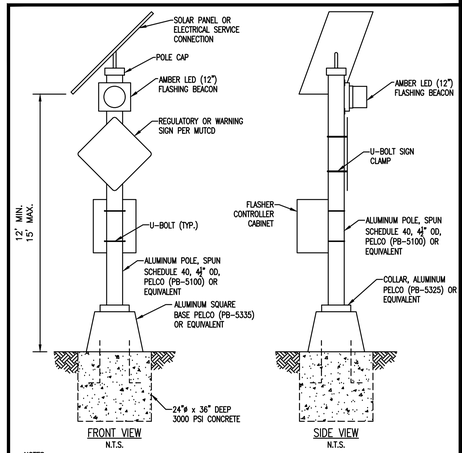
CONCHY JOE'S
JENSEN BEACH, FLORIDA

KENNETH M. RAU
LICENSE
No. 72738
Feb 17 2020
STATE OF FLORIDA
PROFESSIONAL ENGINEER

SHEET NO.
19

J:\A01 Ayers\A0102 – Conchy Joe's Expansion\DWG\DESIGN\BASE – Indian River Dr.dwg, PRINTED BY: FransiscoM ON Mon, Feb 17 2020

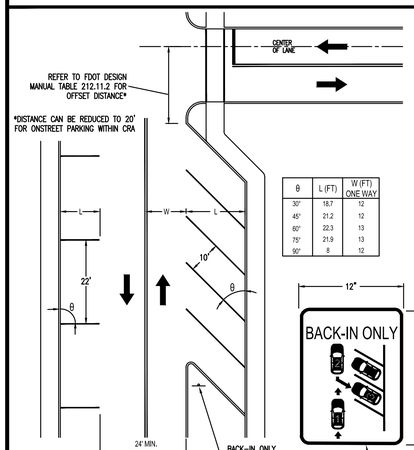




NOTES:

1. INSTALLATION LOCATIONS SHALL BE APPROVED BY COUNTY ENGINEER.
2. COMPONENTS SPECIFIED FOR INSTALLATION SHALL BE APPROVED BY COUNTY ENGINEER.
3. SOLAR FLASHER CABINET TO BE BY TRANSPORTATION CONTROL SYSTEMS OR EQUAL.
4. ALL FASTENERS TO BE STAINLESS STEEL.
5. UNLESS A DIFFERENT SPECIFICATION IS CALLED OUT HERE, COMPLIANCE WITH THE STANDARDS FOUND WITHIN FDOT STANDARD PLANS INDEX 700-120 IS REQUIRED.

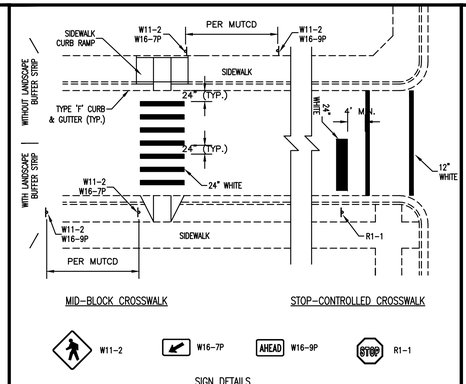
MARTIN COUNTY ENGINEERING - STANDARD DETAILS	DETAIL
FLASHING BEACON	R-170
	DATE: 04/23/19



θ	L (FT)	W (FT) ONE WAY
30°	18.7	12
45°	21.2	12
60°	22.3	13
75°	21.9	13
90°	8	12

NOTE:
1. BACK-OUT PARKING UTILIZING THE PUBLIC RIGHT-OF-WAY AS AN ACCESS AISLE IS PROHIBITED EXCEPT WHEN APPLIED TO SINGLE-FAMILY AND DUPLEX LAND USES OR ON A STREET WHERE THE POSTED SPEED LIMIT IS 30 MPH OR LESS.
2. BACK-IN ONLY SIGN SHALL CONSIST OF A GREEN LEGEND AND BORDER ON A WHITE BACKGROUND.

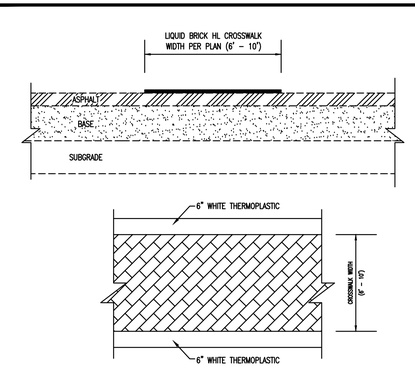
MARTIN COUNTY PUBLIC WORKS - STANDARD DETAILS	DETAIL
BACK-IN PARKING	R-81
	DATE: 04/23/19



NOTES:

1. ALL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC IN ACCORDANCE WITH FDOT STANDARD SPECIFICATION 711.
2. MID-BLOCK CROSSWALK MARKINGS SHALL BE WHITE SPECIAL EMPHASIS.
3. STOP-CONTROLLED CROSSWALK MARKINGS SHALL BE STANDARD.
4. PUBLIC SIDEWALK CURB RAMPS AND DETECTABLE WARNING SURFACES SHALL BE DESIGNED IN ACCORDANCE WITH FDOT STANDARD PLANS INDEX 522. DETECTABLE WARNING SURFACES SHALL BE CAST IN PLACE ARMOR TILE OR APPROVED EQUAL AND BRICK RED IN COLOR. BOLT OR SCREW DOWN TYPES ARE PROHIBITED.
5. CROSSWALK WARNING SIGNAGE SHALL BE YELLOW, UNLESS CROSSWALK IS LOCATED IN A SCHOOL ZONE WHERE LIME-GREEN SHALL BE USED.
6. SIGN INSTALLATION SHALL BE PER TRAFFIC CONTROL DETAIL, R-140A.

MARTIN COUNTY ENGINEERING - STANDARD DETAILS	DETAIL
CROSSWALK	R-120A
	DATE: 04/23/19



NOTES:

1. THE STAMPED APPLICATION SHALL BE AN FDOT APPROVED LIQUID BRICK- HF W/ NATURA COLORED AGGREGATE WITH A HIGH FRICTION SURFACING SYSTEM COMPRISED OF A THERMOSETTING MODIFIED EPOXY COMPOUND MANUFACTURED BY ATLANTIC PAVING COMPANY INC., OR APPROVED EQUAL.
2. CROSSWALK EPOXY-AGGREGATE COMPOUND MAT MUST HAVE PARALLEL 12" WHITE STRIPING ON BOTH SIDES OF PATTERN OR 12" WHITE THERMOPLASTIC ON ADJACENT ASPHALT.
3. SUBSTITUTION REQUESTS MUST BE SUBMITTED AND APPROVED BY COUNTY ENGINEER BEFORE APPLICATION.

MARTIN COUNTY ENGINEERING - STANDARD DETAILS	DETAIL
CROSSWALK (STAMPED)	R-120B
	DATE: 04/23/19

MAINTENANCE OF TRAFFIC CONTROL DEVICES

TRAFFIC SIGNS ON PRIVATELY MAINTAINED ROADS ARE THE RESPONSIBILITY OF THE MAINTAINING ENTITY, TYPICALLY, THE HOMEOWNERS OR PROPERTY OWNERS ASSOCIATION. WHERE PRIVATELY MAINTAINED ROADS INTERSECT STATE OR COUNTY MAINTAINED ROADS, THE TRAFFIC SIGNS (SUCH AS STREET NAME "BLADES" AND REGULATORY SIGNS) AND MARKINGS (SUCH AS STOP BARS) "SHALL BE THE RESPONSIBILITY OF THE PROPERTY OWNER AND CURRENT USER ENTITY" NOT THE COUNTY OR THE STATE. PRIOR TO THE MARTIN COUNTY SHERIFF'S OFFICE PATROLLING ON PRIVATE ROADS, AN AGREEMENT FOR TRAFFIC CONTROL ON PRIVATE ROADS MUST BE EXECUTED WITH MARTIN COUNTY. THE HOMEOWNERS OR PROPERTY OWNERS ASSOCIATION SHALL SUBMIT A CERTIFICATION OF COMPLIANCE WITH THESE REGULATIONS PRIOR TO THE EXECUTION OF THE AGREEMENT FOR TRAFFIC CONTROL ON PRIVATE ROADS; THE CERTIFICATION MUST BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF FLORIDA.

THE DESIGN AND MANUFACTURING OF ALL SIGNING AND MARKINGS REQUIRED FOR THE OPERATION OF THE CONNECTION (SUCH AS STOP BARS AND STOP SIGNS FOR THE CONNECTION) SHALL BE THE RESPONSIBILITY OF THE PROPERTY OWNER AND CURRENT ENTITY RESPONSIBLE FOR THE CONNECTION, OR GOVERNMENTAL ENTITY HAVING JURISDICTION OVER THE CONNECTION, ROAD, OR INTERSECTION OF THE COUNTY ROAD REGARDLESS OF THE OWNER OF THE RIGHT-OF-WAY AS PROVIDED IN CHAPTER 316, FLORIDA STATUTES.

ALL TRAFFIC CONTROL DEVICES INSTALLED ON COUNTY OR PRIVATELY MAINTAINED ROADS SHALL BE IN CONFORMANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), THE FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) STANDARD PLANS, AND THESE STANDARDS.

PLACEMENT OF TRAFFIC CONTROL DEVICES

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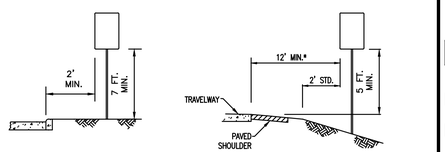

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TRAFFIC CONTROL	R-140A
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DRAWN: D.W. 3-5-2018

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FILE: BASE – Indian River Dr.dwg

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CERTIFICATE OF AUTHORIZATION: 28246

INDIAN RIVER DR SIGNAGE & STRIPING PLAN

CONCHY JOE'S

JENSEN BEACH, FLORIDA

KENNETH M. RAU LICENSE No. 72738 Feb. 17, 2020 STATE OF FLORIDA PROFESSIONAL ENGINEER

SHEET NO.

20

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