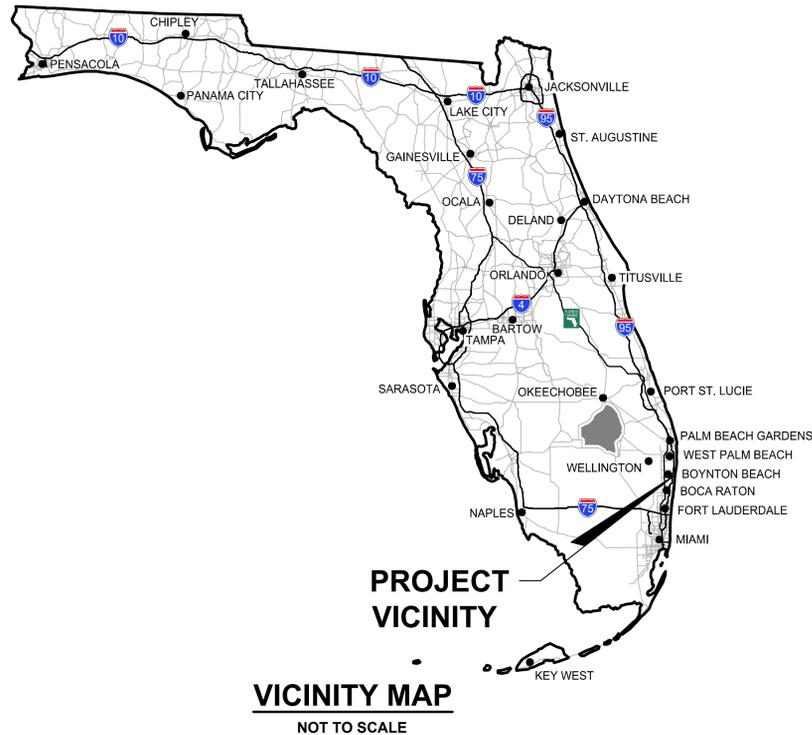


# CONCEPTUAL ENGINEERING PLANS

# 398 NE 6TH AVENUE

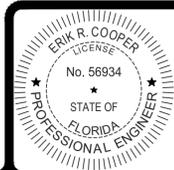
**SECTION 16, TOWNSHIP 46S., RANGE 43E.**  
**CITY OF DELRAY BEACH, FLORIDA**



**LOCATION MAP**  
NOT TO SCALE

### INDEX OF SHEETS

SHEET NO.:	DESCRIPTION:
1	TITLE SHEET
2	CONCEPTUAL DEMOLITION PLAN
3	CONCEPTUAL PAVING AND DRAINAGE PLAN
4	CONCEPTUAL WATER AND WASTEWATER PLAN
5-7	CONCEPTUAL PAVING, DRAINAGE, WATER AND WASTEWATER DETAILS



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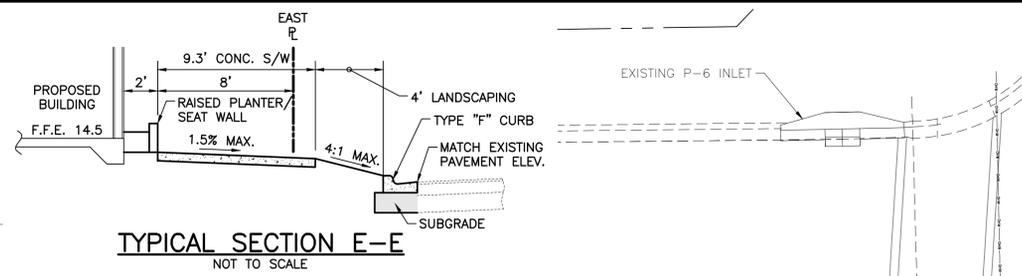


398 NE 6TH AVENUE  
 SECTION 16, TOWNSHIP 46S., RANGE 43E.  
 CITY OF DELRAY BEACH, FLORIDA  
 TITLE SHEET

REVISIONS				DESIGN C.M.	DRAWN B.L./D.B.	CHECKED	APPROVED	DATE	JOB NO. 24-096	DRAWING NO. 24096C01	SHEET 1 OF 7
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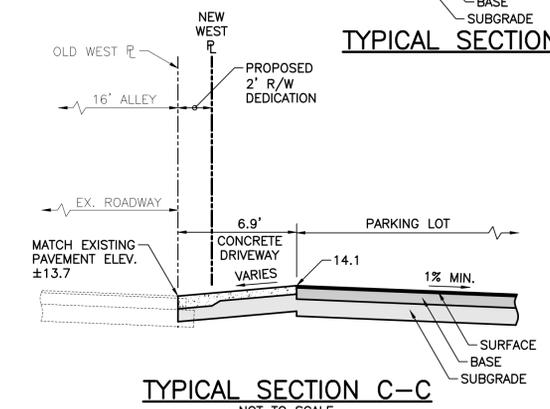
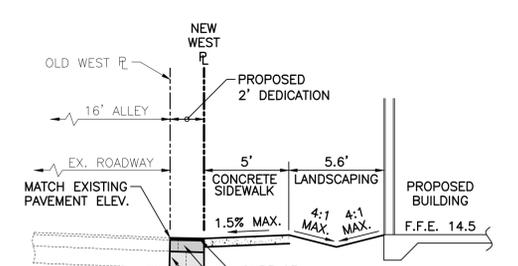
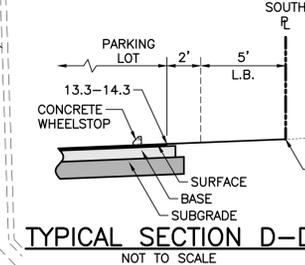
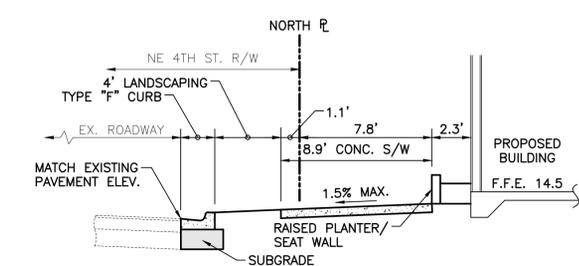
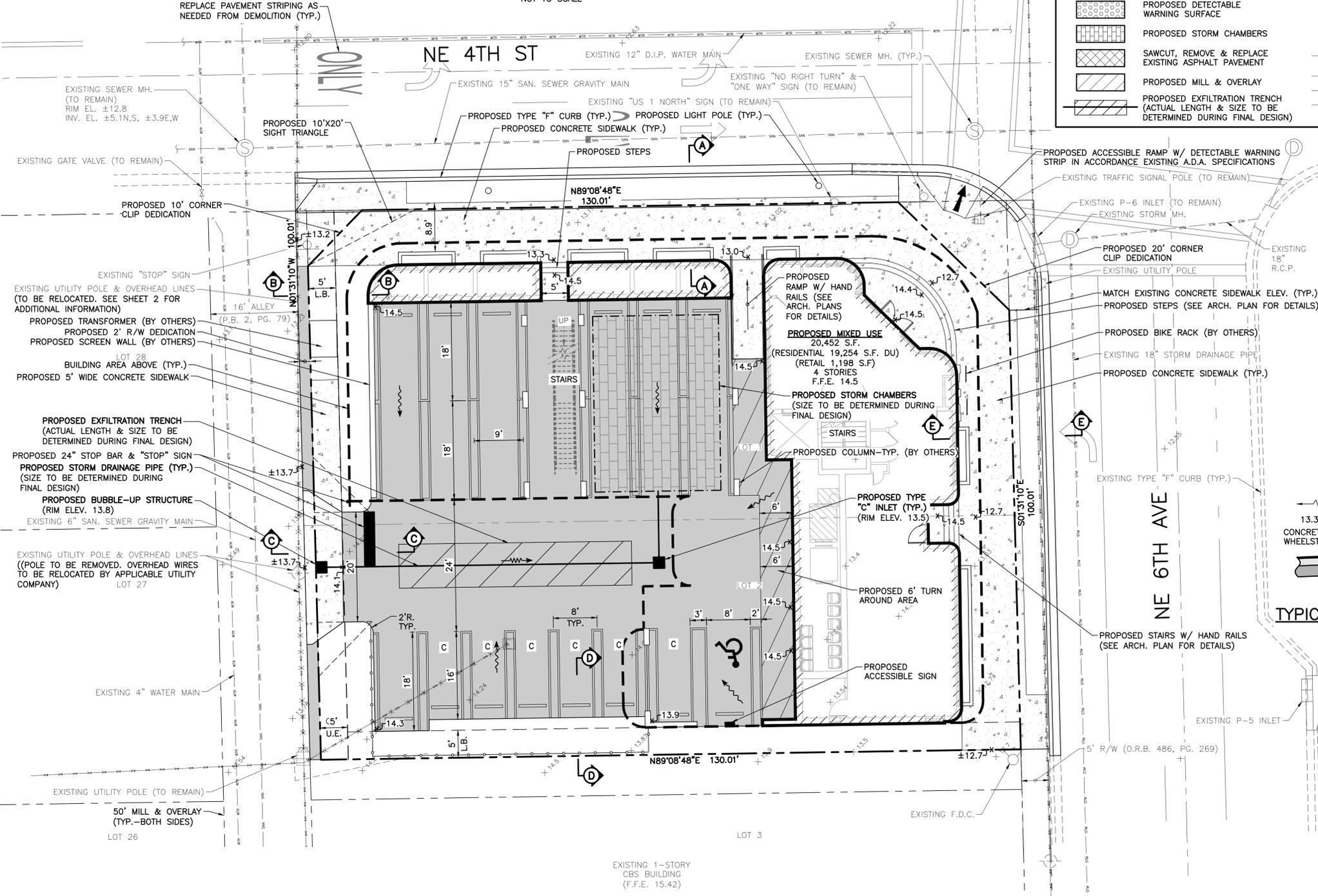
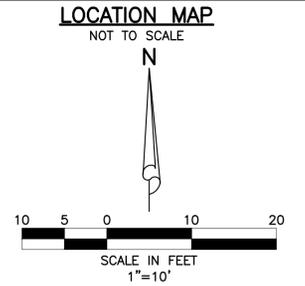


**NOTE: ALL ELEVATIONS SHOWN HEREON ARE RELATIVE TO THE NORTH AMERICAN VERTICAL DATUM (N.A.V.D.) OF 1988 BASED ON A SURVEY PREPARED BY PERIMETER SURVEYING & MAPPING, (561) 241-9988.**



**LEGEND**

	PROPOSED STORM SEWER AND CATCH BASIN		SEWER SERVICE W/ CLEAN-OUT
	DIRECTION OF FLOW		FIRE HYDRANT W/ GATE VALVE
	DIRECTION OF SWALE		PROPOSED SANITARY SEWER LINE, MANHOLE & FLOW DIRECTION
	PROPOSED HIGH POINT		WATER SERVICE & R.P.Z. (REFER TO POTABLE WATER SERVICE SINGLE METER INSTALLATION DETAIL.)
	EXISTING GRADE ELEVATION		PROPOSED DIRECTIONAL ARROW
	PROPOSED ASPHALT		PROPOSED BIKE RACK (BY OTHERS)
	PROPOSED CONCRETE		24" STOP BAR & "STOP" SIGN
	PROPOSED DETECTABLE WARNING SURFACE		COMPACT PARKING SPACE
	PROPOSED STORM CHAMBERS		EXISTING OVERHEAD POWER LINE & POWER POLE
	SAWCUT, REMOVE & REPLACE EXISTING ASPHALT PAVEMENT		EXISTING STORM DRAINAGE PIPE (TO REMAIN)
	PROPOSED MILL & OVERLAY		EXISTING WATER MAIN (TO REMAIN)
	PROPOSED INFILTRATION TRENCH (ACTUAL LENGTH & SIZE TO BE DETERMINED DURING FINAL DESIGN)		EXISTING SEWER MAIN (TO REMAIN)



**NOTES:**

- 1.) THIS DESIGN IS CONCEPTUAL AND SUBJECT TO CHANGE BASED ON FINAL DESIGN.
- 2.) ALL WATER AND WASTEWATER CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF DELRAY BEACH AND THE PALM BEACH COUNTY HEALTH DEPARTMENT.
- 3.) CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF ALL DEMOLITION MATERIAL IN ACCORDANCE WITH ALL APPLICABLE GOVERNING AGENCY STANDARDS.
- 4.) LOCATIONS OF WATER AND SANITARY SEWER SERVICES, DRAINAGE STRUCTURES AND PIPES AND OTHER STRUCTURES TO BE COORDINATED WITH LANDSCAPE DESIGN DURING PREPARATION OF FINAL CIVIL ENGINEERING PLANS.
- 5.) CONSTRUCTION AND DEMOLITION TO COMPLY WITH N.F.P.A. 241.
- 6.) FIRE DEPARTMENT LOCKING CAPS WILL BE REQUIRED ON THE FIRE DEPARTMENT CONNECTION.
- 7.) ANY DAMAGE TO ANY ROADWAY PAVEMENT LIKE UTILITY CUTS OR EDGE REPAIR SHALL BE MILLED AND RESURFACED FOR 50' EACH WAY PAST THE LIMIT OF THE DAMAGE PER CITY OF DELRAY BEACH STANDARD DETAIL GU 1.0.
- 8.) ALL PROPOSED SANITARY SEWER LATERALS AND CLEANOUT RISERS TO BE MINIMUM 6" PVC SDR 26. THE CLEANOUT (END OF CITY RESPONSIBILITY) TO BE IN A HEXAGON MINI MANHOLE. ALL OTHER PRIVATE CLEANOUTS BEYOND THE R/W CLEANOUT TO BE IN A ROUND METAL MINI MANHOLE WITH A LETTER "S" ON THE LID.
- 9.) ANY TREES OR SHRUBS PLACED WITHIN WATER, SEWER OR DRAINAGE EASEMENTS SHALL CONFORM TO THE CITY OF DELRAY BEACH STANDARDS DETAILS LD 1.0 & LD 2.0.

ERIK R. COOPER  
LICENSE  
No. 56934  
STATE OF FLORIDA  
PROFESSIONAL ENGINEER

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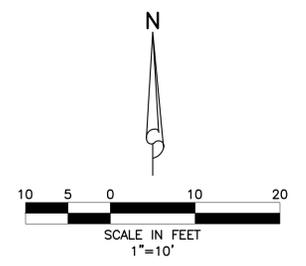
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398 NE 6TH AVENUE  
SECTION 16, TOWNSHIP 46S., RANGE 43E.  
CITY OF DELRAY BEACH, FLORIDA  
CONCEPTUAL PAVING AND DRAINAGE PLAN

DESIGN C.M.	DRAWN B.L./D.B.	CHECKED	APPROVED	DATE	JOB NO. 24-096	DRAWING NO. 24096C03	SHEET 3 OF 7
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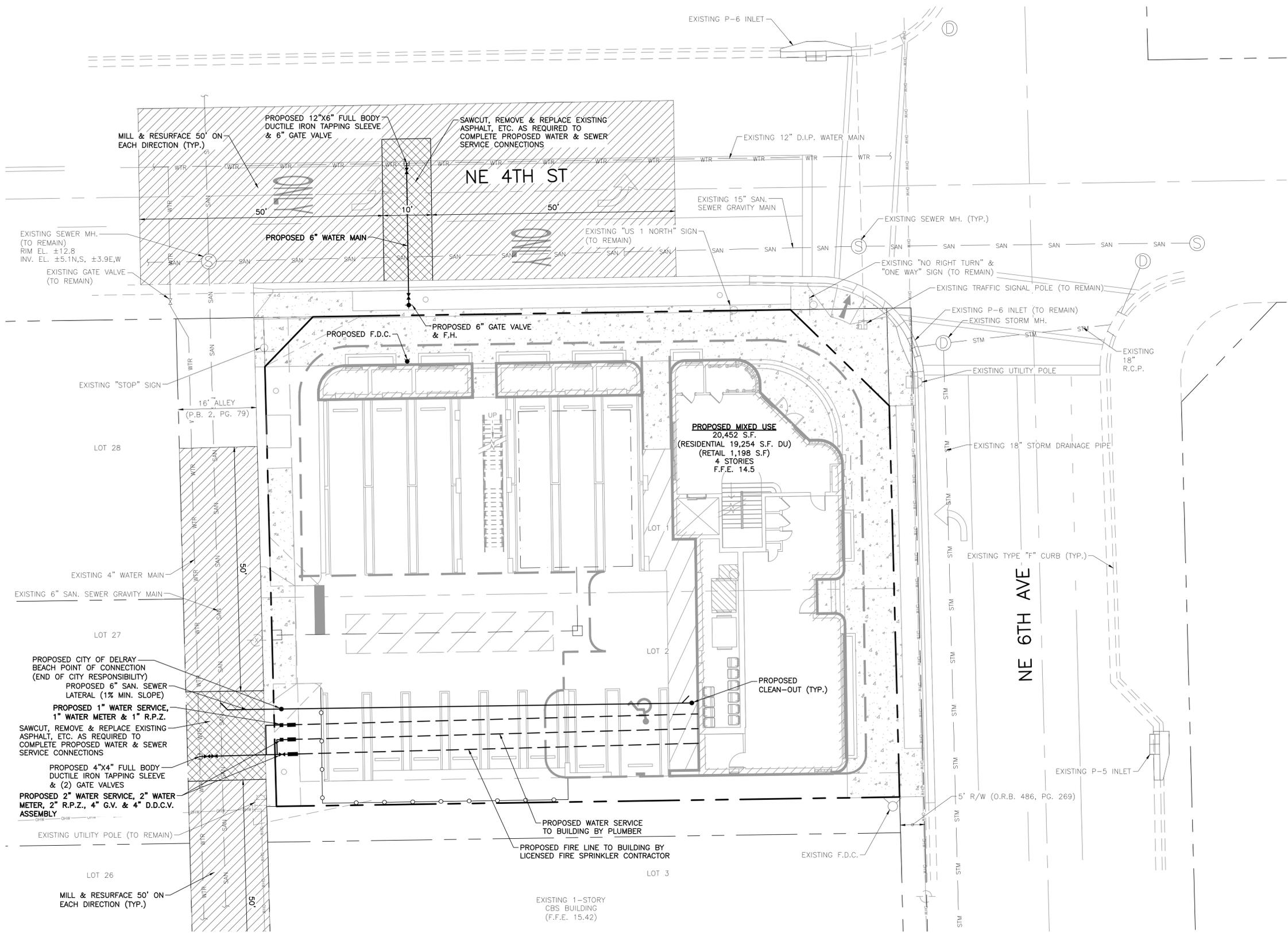


**LOCATION MAP**  
NOT TO SCALE



**LEGEND**

- SINGLE SEWER SERVICE W/ CLEAN-OUT
- DOUBLE SEWER SERVICE W/ CLEAN-OUT
- SANITARY SEWER LINE, MANHOLE AND DIRECTION OF FLOW
- FIRE HYDRANT W/ GATE VALVE
- WATER SERVICE, WATER METER & R.P.Z.
- WATER MAIN & GATE VALVE
- GATE VALVE & D.D.C.V. ASSEMBLY
- SAWCUT, REMOVE, & REPLACE EXISTING CONCRETE, ASPHALT, CURB, ETC.
- MILL & RESURFACE



**NOTE:** ALL ELEVATIONS SHOWN HEREON ARE RELATIVE TO THE NORTH AMERICAN VERTICAL DATUM (N.A.V.D.) OF 1988 BASED ON A SURVEY PREPARED BY PERIMETER SURVEYING & MAPPING, (561) 241-9988.

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398 NE 6TH AVENUE  
SECTION 16, TOWNSHIP 46S., RANGE 43E.  
CITY OF DELRAY BEACH, FLORIDA  
**CONCEPTUAL WATER AND WASTEWATER PLAN**

DESIGN C.M.	DRAWN B.L./D.B.	CHECKED	APPROVED	DATE	JOB NO. 24-096	DRAWING NO. 24096C04	SHEET 4 OF 7
REVISIONS							

### 90° PARKING

A	AISLE	24.0'
S	STALL WIDTH	9.0'
D	STALL DEPTH	18.0'
W	MODULE WIDTH	60.0'

### 60° AND 45° PARKING

STANDARD	60°	45°	
A	AISLE*	17.0'	15.0'
C	STALL LENGTH	10.5'	12.5'
S	STALL WIDTH	9.0'	9.0'
D	STALL DEPTH	20.0'	19.0'
W	MODULE WIDTH	57.0'	53.0'

ACCESSIBLE SPACES	C	14.0'	17.0'
	D	21.5'	21.0'
	S	12.0'	12.0'

\* FOR TWO WAY FLOW A=24.0'

### PARALLEL

C	STALL LENGTH	22.0'
S	STALL WIDTH	8.0'

**NOTE:**  
REFER TO TYPICAL PARKING SPACE DETAIL RT 16.0 THROUGH RT 16.2 FOR STRIPING INFORMATION AND ACCESSIBLE PARKING DIMENSIONS.  
STOP BAR BETWEEN PARKING LOT & PUBLIC RW MUST BE THERMOPLASTIC.

**CITY of DELRAY BEACH**  
PUBLIC WORKS DEPARTMENT  
434 SOUTH SWINTON AVENUE, DELRAY BEACH, FLORIDA 33444

PARKING LOTS  
DATE: 10-04-2024  
RT 15.0

**PARKING STALL DIMENSIONS:**  
STANDARD 8'x18'  
COMPACT 8'x16'  
ACCESSIBLE 12'x18' PLUS 5' ACCESS AISLE

**NOTES:**  
1. ON LIGHT COLORED SURFACE I.E. CONCRETE ALL ACCESSIBLE MARKINGS SHALL BE BLUE AND STANDARD PARKING STRIPING SHALL BE 3" WHITE WITH 1" BLACK BORDER.  
2. ALL STRIPING WITHIN PUBLIC RIGHT-OF-WAY SHALL BE 6 INCHES.  
3. ALL MEASUREMENTS ARE FROM CENTER LINE.  
4. ALL COMPACT SPACES MUST HAVE "COMPACT" STENCILED WITH BLACK PAINT ON WHEEL STOP.  
5. BLUE STRIPE & INTERNATIONAL SYMBOL OF ACCESSIBILITY AND WALKWAY ON CONCRETE.  
6. 24" STOP BAR BETWEEN ALL PARKING LOTS AND PUBLIC RW SHALL BE THERMOPLASTIC AND PER FDOT SPECIFICATIONS AND STOP SIGN R1-1 THERMOPLASTIC AND PER FDOT SPECIFICATIONS AND STOP SIGN R1-1.  
7. CHANGES IN LEVEL ARE NOT PERMITTED IN ACCESSIBLE PARKING STALLS AND ACCESS AISLES SERVING THE STALLS. SLOPES NOT STEEPER THAN 1:48 SHALL BE PERMITTED.

**CITY of DELRAY BEACH**  
PUBLIC WORKS DEPARTMENT  
434 SOUTH SWINTON AVENUE, DELRAY BEACH, FLORIDA 33444

TYPICAL PARKING SPACES (1 OF 3)  
DATE: 10-04-2024  
RT 16.0

**PLAN**

**SECTION A-A**

**TYPE "A"**

**TYPE "B"**

**SIDEWALK JOINTS**

**NOTE:**  
1. ALL SIDEWALKS SHALL BE CONSTRUCTED THRU DRIVEWAYS.  
2. ALL SIDEWALKS SHALL INCLUDE ADA COMPLIANT RAMP(S) @ INTERSECTIONS.  
3. ALL SIDEWALKS SHALL INCLUDE CROSS SLOPE AND RUNNING SLOPE IN ACCORDANCE WITH ADA REQUIREMENTS.  
4. CURB RAMP DETECTABLE WARNING SURFACE SHALL EXTEND THE FULL WIDTH OF THE RAMP AND 24" DEEP.  
5. SIDEWALK SHALL BE 9" THICK FOR 2' AT THE CONNECTION TO ROADWAYS WITH A 6" TRANSITION TO 5" FOR THE REMAINDER OF THE REQUIRED 10'.

**CITY of DELRAY BEACH**  
PUBLIC WORKS DEPARTMENT  
434 SOUTH SWINTON AVENUE, DELRAY BEACH, FLORIDA 33444

SIDEWALK CONSTRUCTION DETAIL  
DATE: 10-04-2024  
RT 18.0

**SECTION A-A**

**TYPE "A"**

**TYPE "B"**

**SIDEWALK JOINTS**

**NOTE:**  
1. ALL SIDEWALKS SHALL BE CONSTRUCTED THRU DRIVEWAYS.  
2. ALL SIDEWALKS SHALL INCLUDE ADA COMPLIANT RAMP(S) @ INTERSECTIONS.  
3. ALL SIDEWALKS SHALL INCLUDE CROSS SLOPE AND RUNNING SLOPE IN ACCORDANCE WITH ADA REQUIREMENTS.  
4. CURB RAMP DETECTABLE WARNING SURFACE SHALL EXTEND THE FULL WIDTH OF THE RAMP AND 24" DEEP.  
5. SIDEWALK SHALL BE 9" THICK FOR 2' AT THE CONNECTION TO ROADWAYS WITH A 6" TRANSITION TO 5" FOR THE REMAINDER OF THE REQUIRED 10'.

GENERAL AREAS	T
WITHIN 10' OF CROSS-STREETS, AT DRIVEWAYS & OTHER AREAS	6"

GENERAL AREAS	W
SINGLE-FAMILY AREAS	5'
MULTI-FAMILY AREAS	5'
OTHER AREAS AS SPECIFIED BY THE CITY.	

TYPE	LOCATION
"A"	P.C. AND P.T. OF CURVES JUNCTION OF EXISTING & NEW SIDEWALKS & EVERY 30'
"B"	5'-0" CENTER TO CENTER ON SIDEWALKS SCORED DURING PLACEMENT OR SAWCUT WITHIN 24 HOURS OF PLACEMENT.
"A"	WHERE SIDEWALK ABUTS CONCRETE CURBS, DRIVEWAYS, AND SIMILAR STRUCTURES.

**CITY of DELRAY BEACH**  
PUBLIC WORKS DEPARTMENT  
434 SOUTH SWINTON AVENUE, DELRAY BEACH, FLORIDA 33444

SIDEWALK CONSTRUCTION  
DATE: 10-04-2024  
RT 18.1

### CONCRETE HEADER CURB

NOT TO SCALE

### VALLEY GUTTER

NOT TO SCALE

**NOTE:** SAWCUTS REQUIRED AT 10' ON CENTER.

### F.D.O.T. TYPE "D" CONCRETE CURB

NOT TO SCALE

### F.D.O.T. TYPE "F" CONCRETE CURB AND GUTTER

NOT TO SCALE

**NOTES:**  
1. ROADWAY SUBGRADE SHALL IN ALL CASES EXTEND BELOW CURBING.  
2. SAWCUTS AT 10' ON CENTER SHALL BE MADE WITHIN 24 HOURS OF CONCRETE PLACEMENT.

**CITY of DELRAY BEACH**  
PUBLIC WORKS DEPARTMENT  
434 SOUTH SWINTON AVENUE, DELRAY BEACH, FLORIDA 33444

CURB AND GUTTER SECTIONS  
DATE: 10-04-2024  
RT 19.0

### NEW CONSTRUCTION PAVEMENT JOINT

**NOTE:**  
THIS METHOD OF PAVEMENT JOINT SHALL BE USED FOR ANY APPLICATION OR CONSTRUCTION WHERE PROPOSED PAVEMENT AND BASE WILL BE CONNECTED TO EXISTING PAVEMENT AND BASE.

### NEW OVERLAY PAVEMENT JOINT

**NOTE:**  
THIS METHOD OF PAVEMENT JOINT SHALL BE USED FOR ANY APPLICATION OR CONSTRUCTION WHERE PROPOSED PAVEMENT WILL BE CONNECTED TO EXISTING PAVEMENT.

**CITY of DELRAY BEACH**  
PUBLIC WORKS DEPARTMENT  
434 SOUTH SWINTON AVENUE, DELRAY BEACH, FLORIDA 33444

PAVEMENT JOINT DETAIL  
DATE: 10-04-2024  
RT 21.0

INLET TYPE	DIMENSIONS		GRATE TYPE	MAX. PIPE SIZE	
	A	B		WALL A	WALL B
'C'	2'-0"	3'-1"	U.S. FOUNDRY No. 6212	15" R.C.P.	24" R.C.P.
'E'	3'-0"	4'-5"	U.S. FOUNDRY No. 6290	24" R.C.P.	36" R.C.P.

**TYPE "C"**

**TYPE "E"**

**NOTES:**  
1. ALL GRATES SHALL BE SUITABLE FOR H-20 LOADING (HIGHWAY TRAFFIC LOADS).  
2. WHEN INSTALLED IN PAVEMENT OR WITHIN 6' OF PAVEMENT USE U.S.F. 4160-6210

**CITY of DELRAY BEACH**  
PUBLIC WORKS DEPARTMENT  
434 SOUTH SWINTON AVENUE, DELRAY BEACH, FLORIDA 33444

TYPE C & E INLET GRATE DETAIL  
DATE: 10-04-2024  
D8.0

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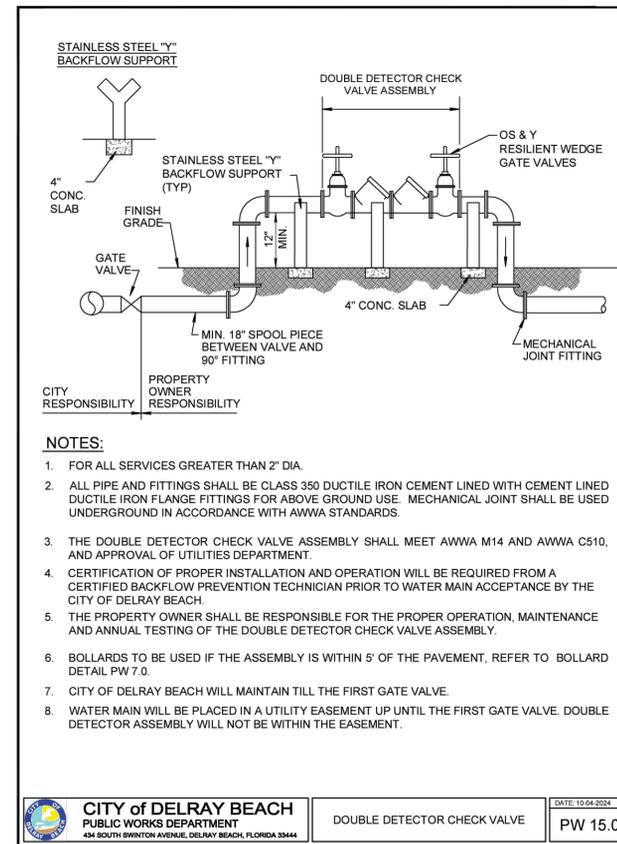
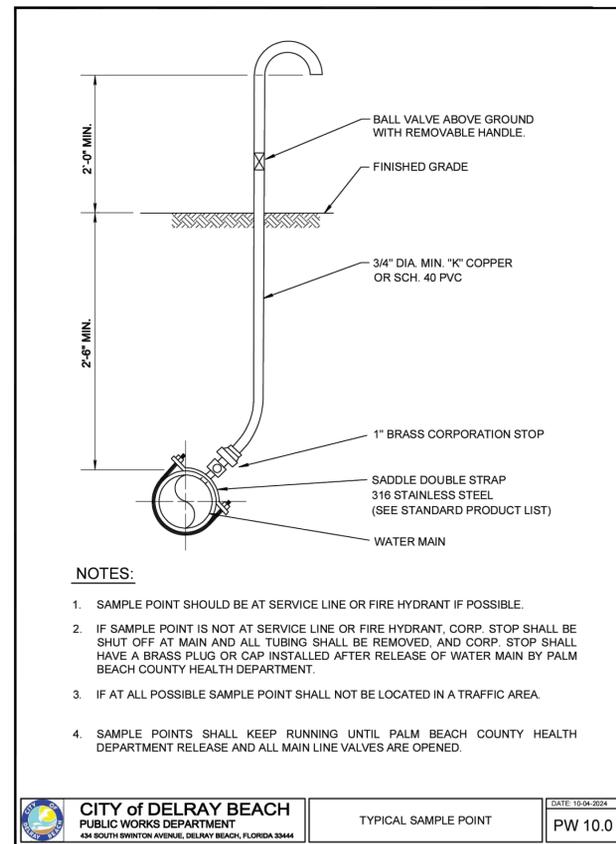
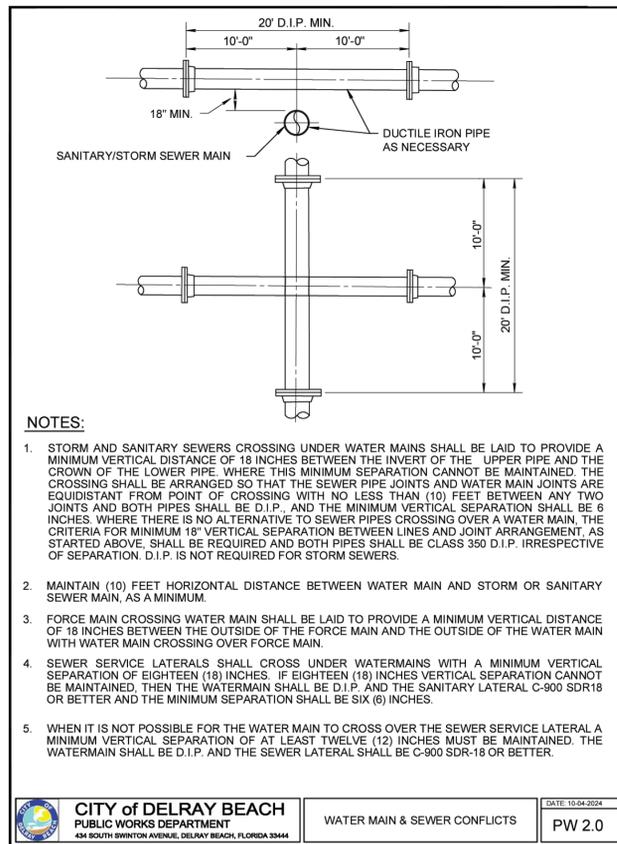
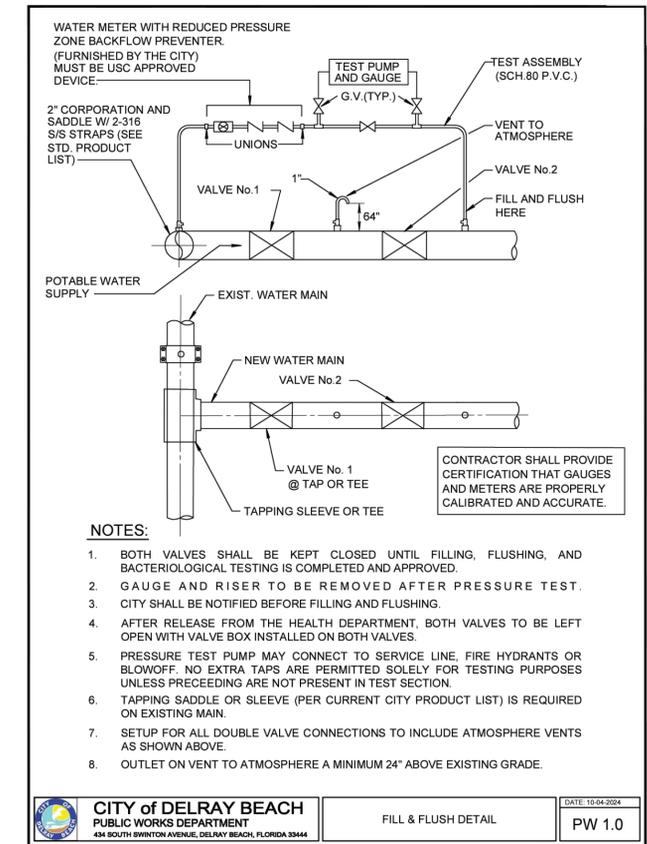
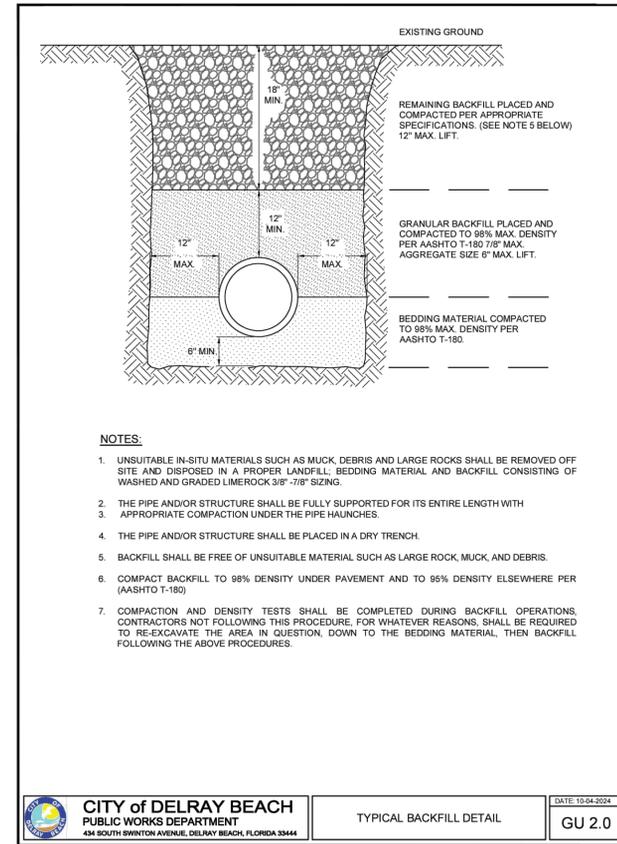
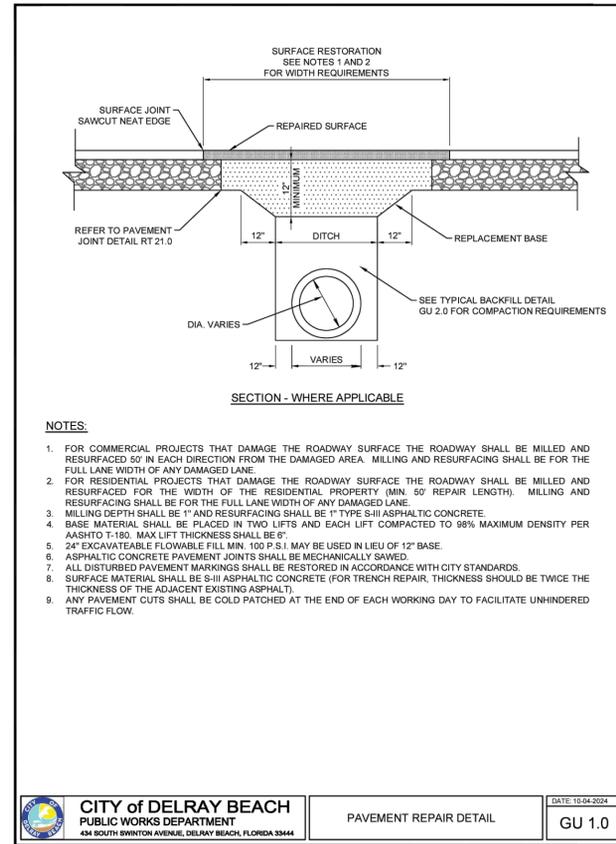
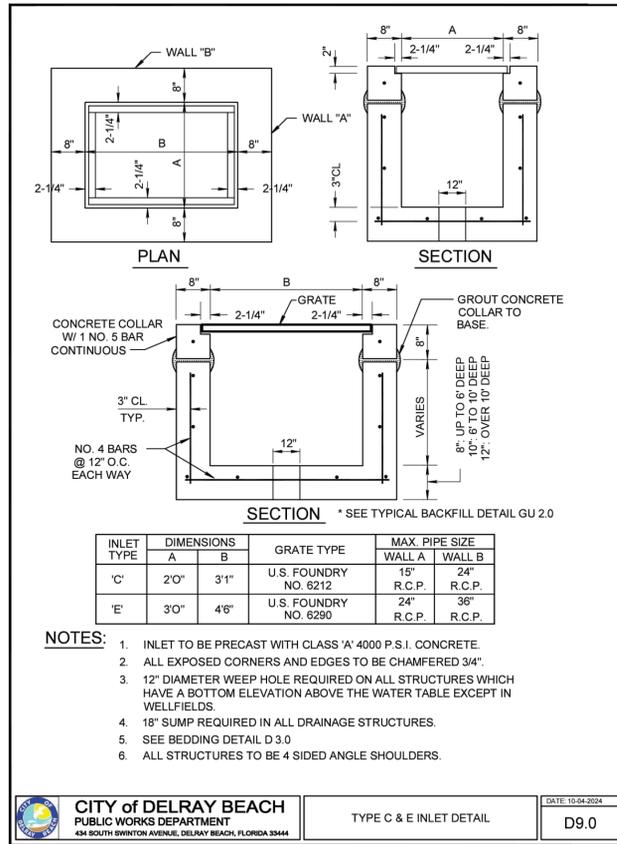
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398 NE 6TH AVENUE  
SECTION 16, TOWNSHIP 46S., RANGE 43E.  
CITY OF DELRAY BEACH, FLORIDA  
CONCEPTUAL PAVING, DRAINAGE,  
WATER AND WASTEWATER DETAILS

REVISIONS

DESIGN	DRAWN	CHECKED	APPROVED	DATE
C.M.	B.L./D.B.			

JOB NO.	DRAWING NO.	SHEET	OF
24-096	24096C05	5	7



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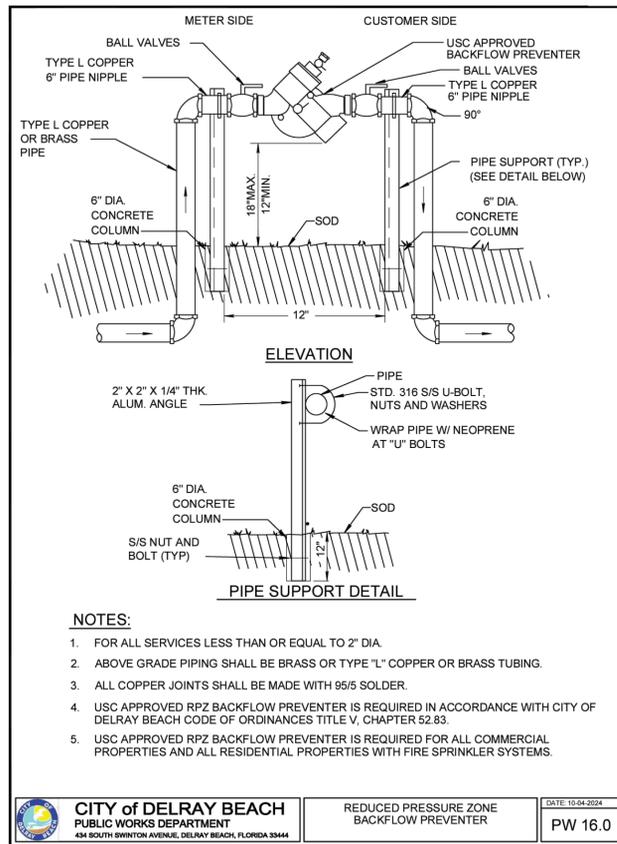
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CONCEPTUAL PAVING, DRAINAGE,  
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REVISIONS

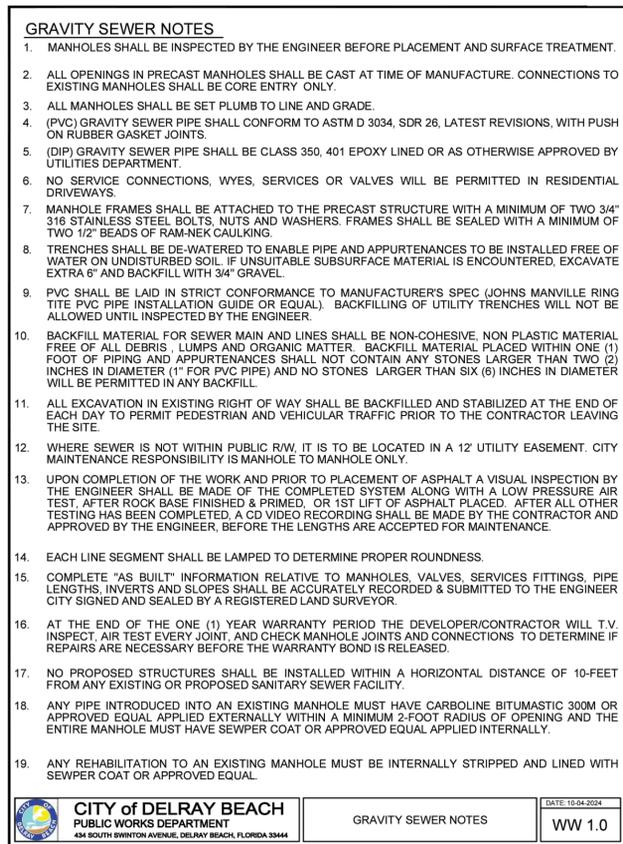
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JOB NO. 24-096  
DRAWING NO. 24096C06  
SHEET 6 OF 7

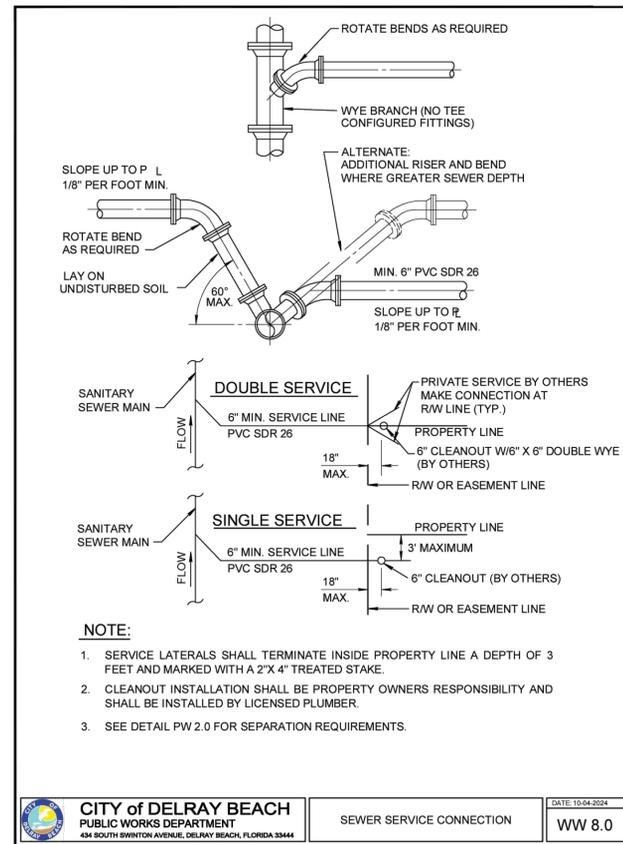


- NOTES:**
- FOR ALL SERVICES LESS THAN OR EQUAL TO 2" DIA.
  - ABOVE GRADE PIPING SHALL BE BRASS OR TYPE "L" COPPER OR BRASS TUBING.
  - ALL COPPER JOINTS SHALL BE MADE WITH 95/5 SOLDER.
  - USC APPROVED RPZ BACKFLOW PREVENTER IS REQUIRED IN ACCORDANCE WITH CITY OF DELRAY BEACH CODE OF ORDINANCES TITLE V, CHAPTER 52.83.
  - USC APPROVED RPZ BACKFLOW PREVENTER IS REQUIRED FOR ALL COMMERCIAL PROPERTIES AND ALL RESIDENTIAL PROPERTIES WITH FIRE SPRINKLER SYSTEMS.

<b>CITY of DELRAY BEACH</b> PUBLIC WORKS DEPARTMENT <small>434 SOUTH SWINTON AVENUE, DELRAY BEACH, FLORIDA 33444</small>	REDUCED PRESSURE ZONE BACKFLOW PREVENTER	DATE: 10-04-2024
		PW 16.0

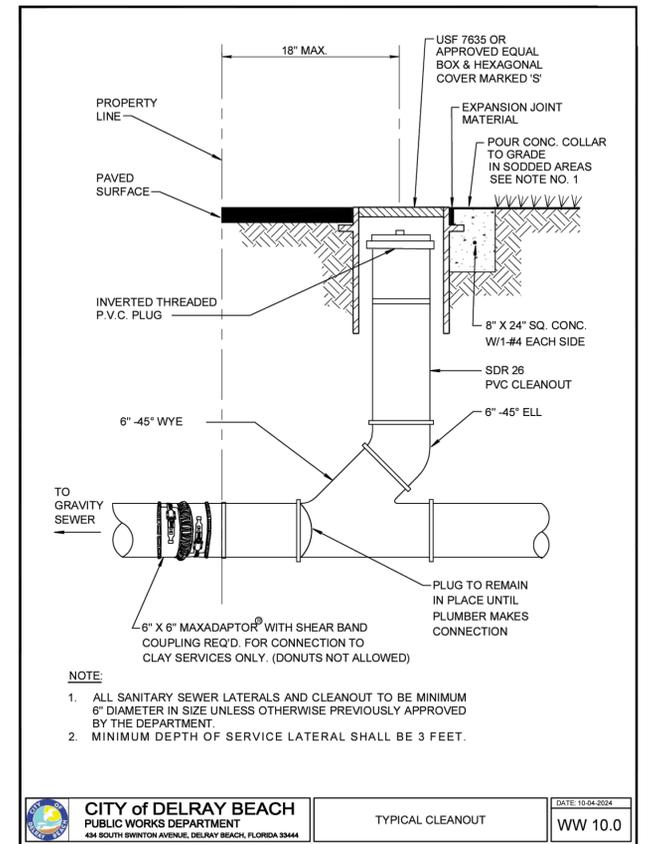


<b>CITY of DELRAY BEACH</b> PUBLIC WORKS DEPARTMENT <small>434 SOUTH SWINTON AVENUE, DELRAY BEACH, FLORIDA 33444</small>	GRAVITY SEWER NOTES	DATE: 10-04-2024
		WW 1.0



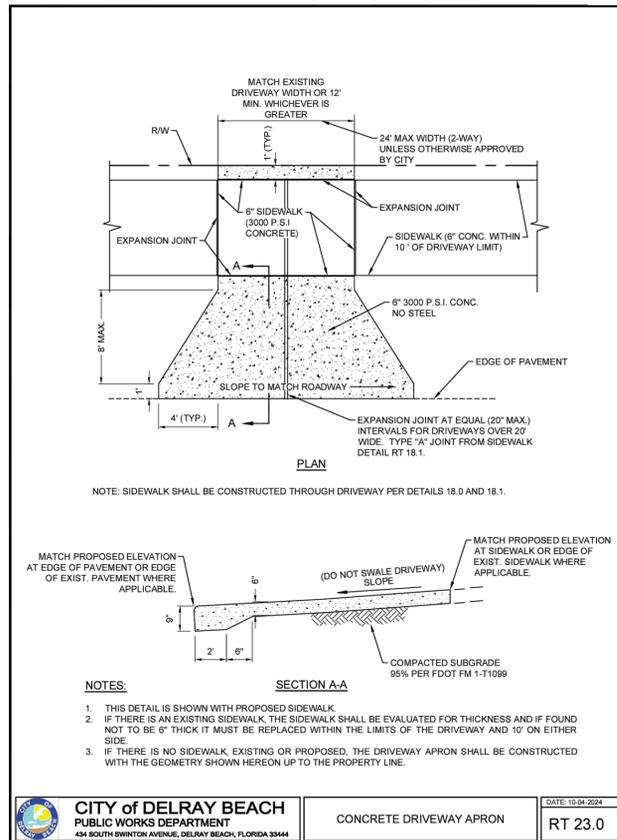
- NOTE:**
- SERVICE LATERALS SHALL TERMINATE INSIDE PROPERTY LINE A DEPTH OF 3 FEET AND MARKED WITH A 2" X 4" TREATED STAKE.
  - CLEANOUT INSTALLATION SHALL BE PROPERTY OWNERS RESPONSIBILITY AND SHALL BE INSTALLED BY LICENSED PLUMBER.
  - SEE DETAIL PW 2.0 FOR SEPARATION REQUIREMENTS.

<b>CITY of DELRAY BEACH</b> PUBLIC WORKS DEPARTMENT <small>434 SOUTH SWINTON AVENUE, DELRAY BEACH, FLORIDA 33444</small>	SEWER SERVICE CONNECTION	DATE: 10-04-2024
		WW 8.0



- NOTE:**
- ALL SANITARY SEWER LATERALS AND CLEANOUT TO BE MINIMUM 6" DIAMETER IN SIZE UNLESS OTHERWISE PREVIOUSLY APPROVED BY THE DEPARTMENT.
  - MINIMUM DEPTH OF SERVICE LATERAL SHALL BE 3 FEET.

<b>CITY of DELRAY BEACH</b> PUBLIC WORKS DEPARTMENT <small>434 SOUTH SWINTON AVENUE, DELRAY BEACH, FLORIDA 33444</small>	TYPICAL CLEANOUT	DATE: 10-04-2024
		WW 10.0



- NOTES:**
- THIS DETAIL IS SHOWN WITH PROPOSED SIDEWALK.
  - IF THERE IS AN EXISTING SIDEWALK, THE SIDEWALK SHALL BE EVALUATED FOR THICKNESS AND IF FOUND NOT TO BE 6" THICK IT MUST BE REPLACED WITHIN THE LIMITS OF THE DRIVEWAY AND 10' ON EITHER SIDE.
  - IF THERE IS NO SIDEWALK EXISTING OR PROPOSED, THE DRIVEWAY APRON SHALL BE CONSTRUCTED WITH THE GEOMETRY SHOWN HEREON UP TO THE PROPERTY LINE.

<b>CITY of DELRAY BEACH</b> PUBLIC WORKS DEPARTMENT <small>434 SOUTH SWINTON AVENUE, DELRAY BEACH, FLORIDA 33444</small>	CONCRETE DRIVEWAY APRON	DATE: 10-04-2024
		RT 23.0

