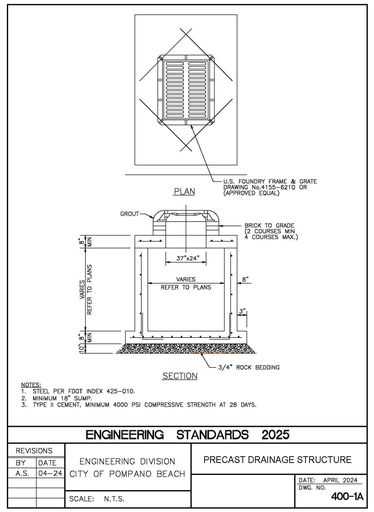
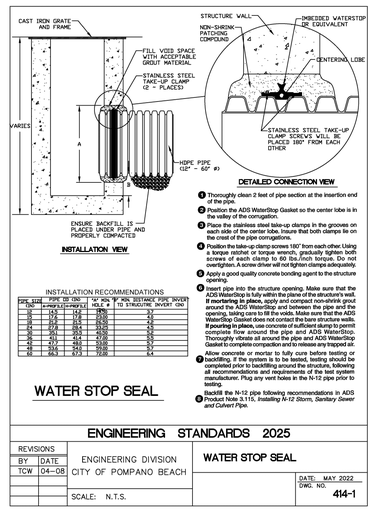


ENGINEERING STANDARDS 2025

REVISIONS BY	DATE	ENGINEERING DIVISION CITY OF POMPANO BEACH	PRECAST DRAINAGE STRUCTURE
A.S.	04-24	SCALE: N.T.S.	DATE: APRIL 2024 DWG. NO. 400-1A



INSTALLATION RECOMMENDATIONS

PIPE SIZE (DN)	PIPE I.D. (DN) in/mm	"A" MIN. in/mm	"B" MIN. DISTANCE PIPE INVERT TO STRUCTURE INVERT (DN)
12	14.5	14.5	3.7
15	17.5	17.5	4.5
18	20.8	20.8	4.6
24	25.0	25.0	5.2
30	30.1	30.1	5.2
36	41.1	41.1	5.5
42	47.4	47.4	5.5
48	53.6	53.6	5.5
60	66.5	67.5	12.0	8.4

1. Thoroughly clean 2 feet of pipe section at the insertion end of the pipe.
2. Position the ADS WaterStop Gasket so the center lobe is in the valley of the corrugation.
3. Place the stainless steel take-up clamps in the grooves on each side of the center lobe. Insure that both clamps lie on the crest of the pipe corrugations.
4. Position the take-up clamp screws 180° from each other. Using a torque ratchet or torque wrench, gradually tighten both screws of each clamp to 60 lbs./inch torque. Do not overtighten. A screw driver will not tighten clamps adequately.
5. Apply a good quality concrete bonding agent to the structure opening.
6. Insert pipe into the structure opening. Make sure that the ADS WaterStop is fully within the plane of the structure's wall. **If mortaring in place,** apply and compact non-shrink grout around the pipe and ADS WaterStop Gasket in the structure opening, taking care to fill the voids. Make sure the pipe and ADS WaterStop Gasket does not contact the bare structure walls. **If pouring in place,** use concrete of sufficient slump to permit complete flow around the pipe and ADS WaterStop. Thoroughly vibrate all around the pipe and ADS WaterStop Gasket to complete compaction and to release any trapped air.
7. Allow concrete or mortar to fully cure before testing or backfilling. If the system is to be tested, testing should be completed prior to backfilling around the structure, following all recommendations and requirements of the test system manufacturer. Plug any vent holes in the N-12 pipe prior to testing.
8. Backfill the N-12 pipe following recommendations in ADS Product Note 3.115, *Installing N-12 Storm, Sanitary Sewer and Culvert Pipe.*

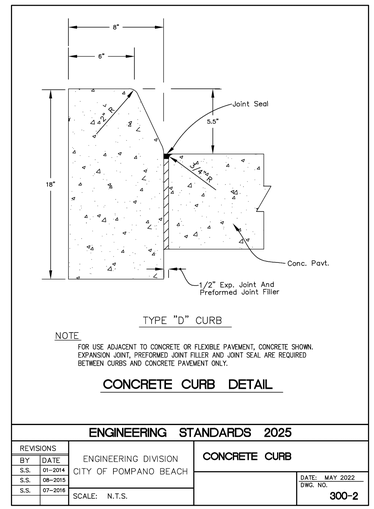
INSTALLATION VIEW

DETAILED CONNECTION VIEW

WATER STOP SEAL

ENGINEERING STANDARDS 2025

REVISIONS BY	DATE	ENGINEERING DIVISION CITY OF POMPANO BEACH	WATER STOP SEAL
TCW	04-08	SCALE: N.T.S.	DATE: MAY 2022 DWG. NO. 414-1



TYPE "D" CURB

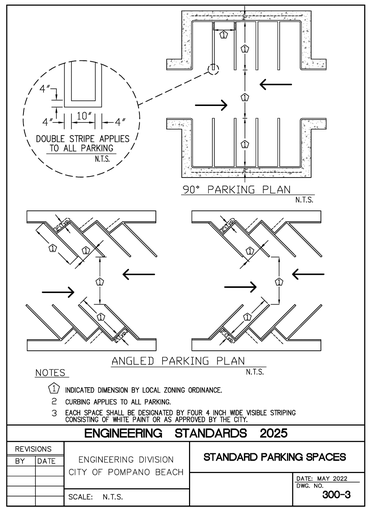
NOTE

FOR USE ADJACENT TO CONCRETE OR FLEXIBLE PAVEMENT, CONCRETE SHOWN. EXPANSION JOINT, PREFORMED JOINT FILLER AND JOINT SEAL ARE REQUIRED BETWEEN CURBS AND CONCRETE PAVEMENT ONLY.

CONCRETE CURB DETAIL

ENGINEERING STANDARDS 2025

REVISIONS BY	DATE	ENGINEERING DIVISION CITY OF POMPANO BEACH	CONCRETE CURB
S.S.	01-2014		
S.S.	08-2015		
S.S.	07-2016	SCALE: N.T.S.	DATE: MAY 2022 DWG. NO. 300-2



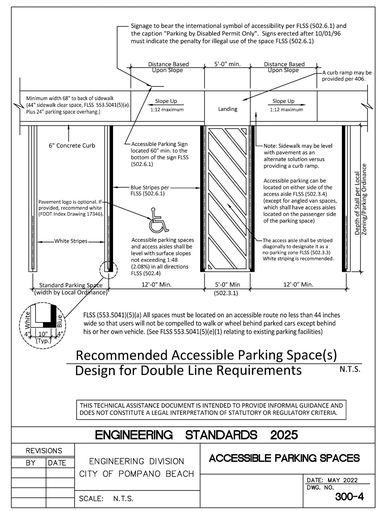
NOTES

1. INDICATED DIMENSION BY LOCAL ZONING ORDINANCE.
2. CURBING APPLIES TO ALL PARKING.
3. EACH SPACE SHALL BE DESIGNATED BY FOUR 4 INCH WIDE VISIBLE STRIPING CONSISTING OF WHITE PAINT OR AS APPROVED BY THE CITY.

STANDARD PARKING SPACES

ENGINEERING STANDARDS 2025

REVISIONS BY	DATE	ENGINEERING DIVISION CITY OF POMPANO BEACH	STANDARD PARKING SPACES
		SCALE: N.T.S.	DATE: MAY 2022 DWG. NO. 300-3



FLSS (553.5041)(5)(a) All spaces must be located on an accessible route no less than 44 inches wide so that users will not be compelled to walk or wheel behind parked cars except behind his or her own vehicle. [See FLSS 553.5041(5)(a)(1) relating to existing parking facilities]

Recommended Accessible Parking Space(s) Design for Double Line Requirements

N.T.S.

THIS TECHNICAL ASSISTANCE DOCUMENT IS INTENDED TO PROVIDE INFORMAL GUIDANCE AND DOES NOT CONSTITUTE A LEGAL INTERPRETATION OF STATUTORY OR REGULATORY CRITERIA.

ENGINEERING STANDARDS 2025

REVISIONS BY	DATE	ENGINEERING DIVISION CITY OF POMPANO BEACH	ACCESSIBLE PARKING SPACES
		SCALE: N.T.S.	DATE: MAY 2022 DWG. NO. 300-4

ACCESSIBLE PARKING SPACE SIGN

N.T.S.

SIGN NOTE

ACCESSIBLE PARKING SPACES SHALL BE POSTED WITH A FIXED PARKING SIGN NO LESS THAN 60" Min. TO THE BOTTOM OF THE SIGN AND WHICH BEARS THE INTERNATIONAL SYMBOL OF ACCESSIBILITY MEETING THE REQUIREMENTS OF THE STANDARDS AND THE CAPTION "PARKING BY DISABLED PERMIT ONLY." AND MUST INDICATE THE PENALTY FOR ILLEGAL USE OF THE SPACE.

ENGINEERING STANDARDS 2025

REVISIONS BY	DATE	ENGINEERING DIVISION CITY OF POMPANO BEACH	ACCESSIBLE SPACE SIGN
		SCALE: N.T.S.	DATE: MAY 2022 DWG. NO. 300-5

SIDEWALK DETAILS

ENGINEERING STANDARDS 2025

REVISIONS BY	DATE	ENGINEERING DIVISION CITY OF POMPANO BEACH	SIDEWALK DETAILS
		SCALE: N.T.S.	DATE: JUNE 2022 DWG. NO. 301-1

TABLE OF SIDEWALK JOINTS	
TYPE	LOCATION
"A"	JOINT SHALL BE PLACED AT P.C. AND P.T. OF CURVES, JUNCTION OF EXISTING SIDEWALKS, EVERY 60' ON NEW SIDEWALKS AND WHERE SIDEWALKS ABUT CONCRETE CURBS, DRIVEWAYS AND SIMILAR STRUCTURES.
"B"	JOINT SHALL BE PLACED 5'-0" CENTER
"C"	JOINT SHALL BE PLACED AT 20' INTERVALS

NOTE: SIDEWALK SHALL BE 4" THICK EXCEPT IN DRIVEWAYS WHERE THE THICKNESS SHALL BE 6".

SIDEWALK DETAILS

ENGINEERING STANDARDS 2025

REVISIONS BY	DATE	ENGINEERING DIVISION CITY OF POMPANO BEACH	SIDEWALK DETAILS
		SCALE: N.T.S.	DATE: JUNE 2022 DWG. NO. 301-2

GUARD POST

ENGINEERING STANDARDS 2025

REVISIONS BY	DATE	ENGINEERING DIVISION CITY OF POMPANO BEACH	GUARD POST
		SCALE: N.T.S.	DATE: MAY 2022 DWG. NO. 304-1

PIPE HAND RAIL NOTES

1. ALL FIXED JOINTS TO BE EITHER WELDED ALL AROUND AND GROUND SMOOTH, OR COMMERCIALLY DESIGNED FIXED JOINT FITTINGS (SOLDERED, BRAZED, FUSED, BOXED OR SWING FITTED) SPECIFIED BY THE PLANS OR APPROVED BY THE ENGINEER. MECHANICAL JOINTS OTHER THAN EXPANSION JOINTS ARE NOT PERMITTED UNLESS SPECIFIED ON THE PLANS OR APPROVED IN WRITING BY THE ENGINEER. POSTS SHALL BE CONNECTED TO BASE BY WELD ONLY. WELD FILLER TO BE ALLOY D43056, D5356M OR D5183.
2. ANCHOR BOLTS SHALL BE IN ACCORDANCE WITH ASTM A 36 OR A307, NUTS, WASHERS, AND BOLTS TO BE STAINLESS STEEL. BE COUNTERSUNK WITH HOLES DRILLED TO FULL DEPTH. THE BOTTOM BOLT SHALL BE COUNTERSUNK AND WITH HOLES AND SOCKETS SPOT WELDED AND COVERED WITH ZINC COMPOUND.
3. ALUMINUM HANDRAIL SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 515 OF THE FDOT STANDARD SPECIFICATIONS. PAYMENT SHALL BE FULL COMPENSATION FOR FURNISHING AND INSTALLING HANDRAIL, INCLUDING MOUNTING HARDWARE, AND SHALL BE PAID FOR UNDER THE CONTRACT UNIT PRICE FOR PIPE HANDRAIL, ALUMINUM, 2 IN.

ALUMINUM PIPE HANDRAIL

ENGINEERING STANDARDS 2025

REVISIONS BY	DATE	ENGINEERING DIVISION CITY OF POMPANO BEACH	ALUMINUM PIPE HANDRAIL
S.S.	1/31/12	SCALE: N.T.S.	DATE: MAY 2022 DWG. NO. 308-1

ENGINEERING STANDARDS 2025

REVISIONS BY	DATE	ENGINEERING DIVISION CITY OF POMPANO BEACH	ADA Detectable Warning Mats
		SCALE: N.T.S.	APPROVED BY: DATE: MAY 2022 DWG. NO. 318-1

MDC
MUNSON DESIGN AND CONSULTING, INC.
PO BOX 771058
CORAL SPRINGS, FL. 33077
PHONE: 954-340-5291
AUTHORIZATION No. 9327
BUSINESS LICENSE No.7958

CITY STANDARD PAVING, GRADING AND DRAINAGE DETAILS

REVISIONS:

BIG TREE B.B.Q.

PROJECT ADDRESS:
SWC OF NW 5th STREET AND POWERLINE ROAD
POMPANO BEACH, FLORIDA 33069

Phase:
CITY DRC DOCUMENTS

SIGNATURE AND SEAL

SHANE L. H. MUNSON LICENSE 54719 STATE OF FLORIDA PROFESSIONAL ENGINEER

Digitally signed by Shane Munson
Date: 2026.01.05 22:25:27 -05'00'

DATED: 01/05/2026
THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY SHANE MUNSON ON THE DATE ADJACENT TO THE SEAL.

PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

Scale: 1"=20'
Job No. 2025-100
Sheet No. C7
Date 02/03/2025
Drawn by SM
Plot Date
Appr. by SB

AAC
PZ25-12000012
02/03/2026