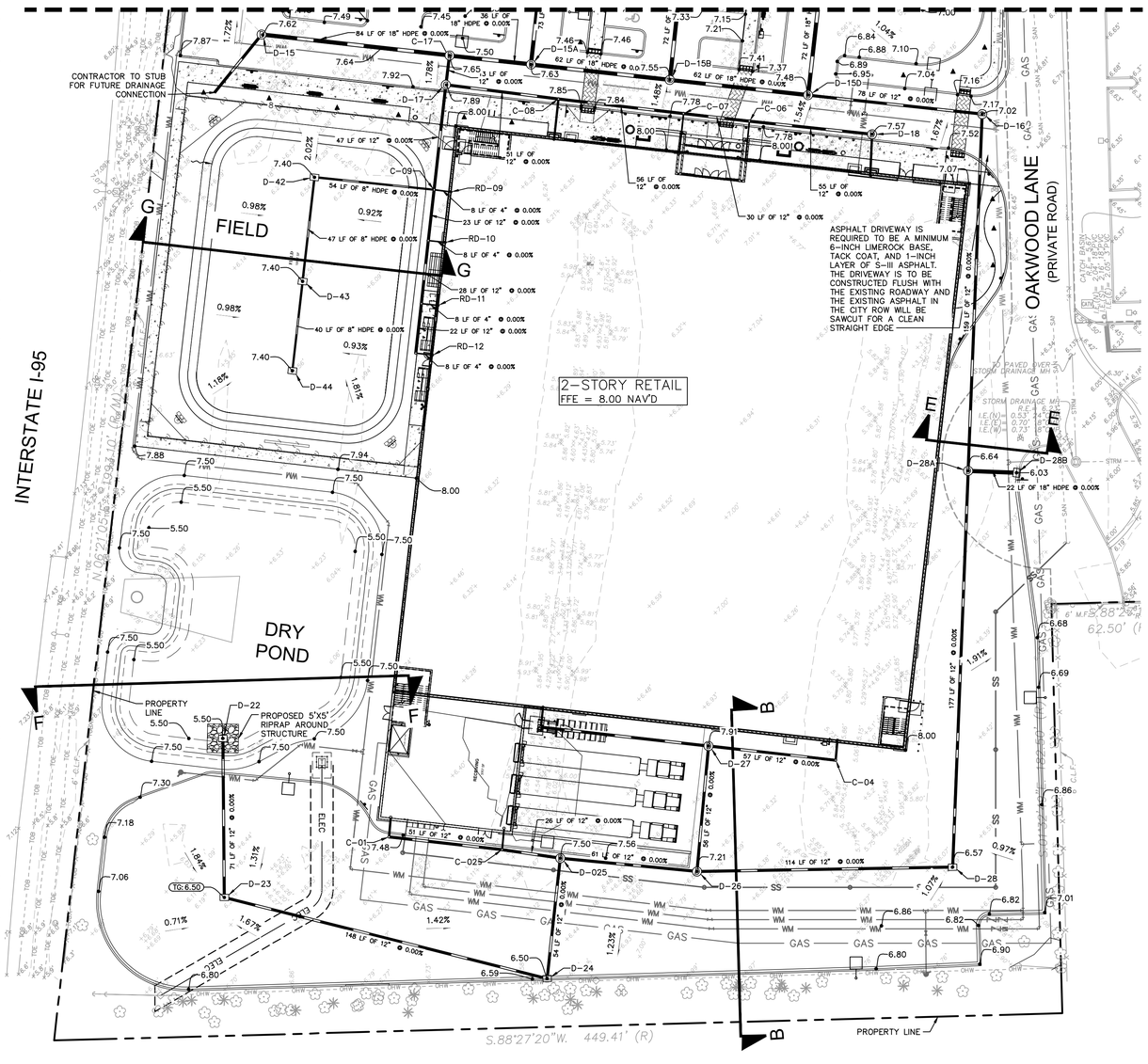
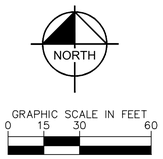
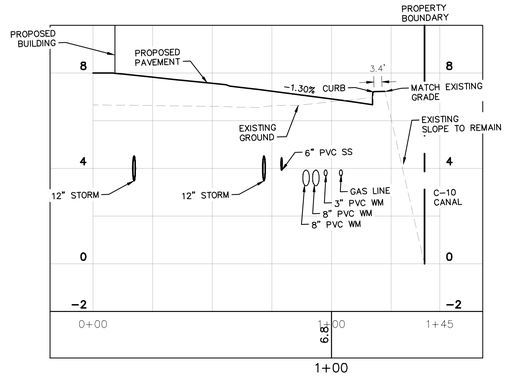




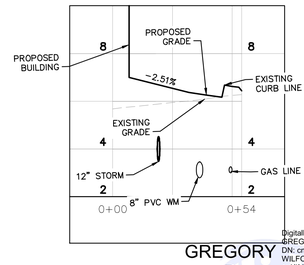
GRAPHIC SCALE IN FEET
0 15 30 60

LEGEND

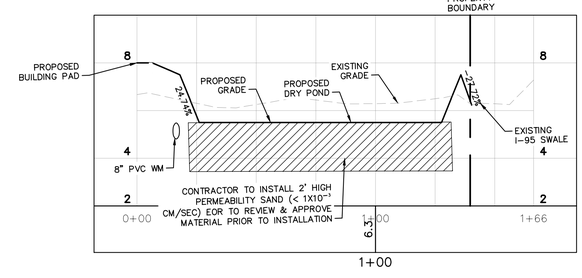
- EXISTING SPOT GRADE
- PROPOSED STORM PIPE
- PROPOSED STORM INLET
- PROPOSED STORM MANHOLE
- PROPOSED ±1,008 LF OF EXFILTRATION TRENCH
- X.XX% SLOPES
- X.XX' SPOT GRADE (NAVD)
- TG X.XX' TOP OF GRATE (NAVD)
- PROPERTY LINE



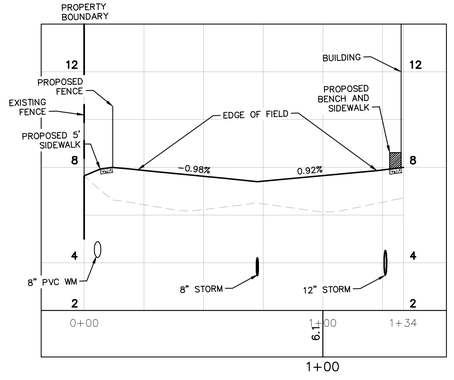
SECTION B-B
1" = 30' HORIZONTAL
1" = 3' VERTICAL



SECTION E-E
1" = 30' HORIZONTAL
1" = 3' VERTICAL



SECTION F-F
1" = 30' HORIZONTAL
1" = 3' VERTICAL



SECTION G-G
1" = 30' HORIZONTAL
1" = 3' VERTICAL

MATERIAL NOTES:

CONCRETE:
CONCRETE DRIVEWAYS ON PRIVATE PROPERTY WILL BE 5-INCH THICK, 3,000 PSI WITH FIBER MESH WHILE THE PORTION OF THE DRIVEWAY LOCATED WITHIN THE ROW (OUTSIDE OF THE PROPERTY LINES) WILL BE A MINIMUM OF 6 INCHES THICK, 3,000 PSI, WITH NO METAL OR FIBER MESH AND WILL BE CONSTRUCTED FLUSH WITH THE EXISTING ROADWAY AND SIDEWALK. THE ENTIRE DRIVEWAY WILL MAINTAIN CONTROL JOINTS LOCATED EVERY 250 SQ.FT AND THE EXISTING ASPHALT IN THE CITY ROW WILL BE SAWCUT FOR A CLEAN STRAIGHT EDGE.

PAVERS:
PAVER DRIVEWAYS REQUIRE A MINIMUM 2 3/8TH INCH PAVERS PLACED OVER A 1-1/2 INCH SAND BASE AND COMPACTED SUBBASE. IN ADDITION TO A MINIMUM 6-INCH EDGE RESTRAINT (CONCRETE BORDER) IS REQUIRED AROUND PERIMETER TO INTERLOCK PAVERS. THE DRIVEWAY IS TO BE CONSTRUCTED FLUSH WITH THE EXISTING ROADWAY AND THE EXISTING ASPHALT IN THE CITY ROW WILL BE SAWCUT FOR A CLEAN STRAIGHT EDGE.

ASPHALT:
ASPHALT DRIVEWAY IS REQUIRED TO BE A MINIMUM 6-INCH LIMEROCK BASE, TACK COAT, AND 1-INCH LAYER OF S-III ASPHALT. THE DRIVEWAY IS TO BE CONSTRUCTED FLUSH WITH THE EXISTING ROADWAY AND THE EXISTING ASPHALT IN THE CITY ROW WILL BE SAWCUT FOR A CLEAN STRAIGHT EDGE.

No.	REVISIONS	DATE	BY

Kimley»Horn

445 24TH STREET, SUITE 200, VERO BEACH, FL 32960
PHONE: 772-794-4100
WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

GREGORY D. WILFONG
LICENSE No. 63166 STATE OF FLORIDA PROFESSIONAL ENGINEER

Digitally signed by GREGORY D.WILFONG
DN: cn=GREGORY D. WILFONG, c=US, o=KIMLEY-HORN AND ASSOCIATES, email=greg.wilfong@kimley-horn.com
Date: 2025.01.22 -05'00'

KHA PROJECT 147507131
DATE 1/22/2025
SCALE AS SHOWN
DESIGNED BY SHB
DRAWN BY SHB
CHECKED BY GDW

PAVING GRADING AND DRAINAGE ENLARGEMENT PLAN

OAKWOOD SOUTH RETAIL SHOPPING CENTER

CITY OF HOLLYWOOD FL

SHEET NUMBER
C-302

STRUCTURE TABLE

STRUCTURE NAME:	DETAILS:	PIPES IN:	PIPES OUT
C-01	RIM: 7.47 INV IN: 3.50 N INV OUT: 3.50 E	FROM RD-01, 8" INV IN: 3.50 @ 0.00%	TO C-02, 12" INV OUT: 3.50 @ 0.00%
C-02	RIM: 7.49 INV IN: 3.50 N INV IN: 3.50 W INV OUT: 3.50 E	FROM RD-02, 6" INV IN: 3.50 @ 0.00% FROM C-01, 12" INV IN: 3.50 @ 0.00%	TO D-025, 12" INV OUT: 3.50 @ 0.00%
C-03	RIM: 5.02 INV IN: 3.50 N INV OUT: 3.50 E	FROM RD-03, 8" INV IN: 3.50 @ 0.00%	TO D-27, 12" INV OUT: 3.50 @ 0.00%
C-04	RIM: 7.82 INV IN: 3.50 N INV OUT: 3.50 W	FROM RD-04, 8" INV IN: 3.50 @ 0.00%	TO D-27, 12" INV OUT: 3.50 @ 0.00%
C-06	RIM: 7.75 INV IN: 3.50 E INV IN: 3.50 S INV OUT: 3.50 W	FROM D-18, 12" INV IN: 3.50 @ 0.00% FROM RD-06, 4" INV IN: 3.50 @ 0.00%	TO C-07, 12" INV OUT: 3.50 @ 0.00%
C-07	RIM: 7.75 INV IN: 3.50 S INV IN: 3.50 E INV OUT: 3.50 W	FROM RD-07, 4" INV IN: 3.50 @ 0.00% FROM C-06, 12" INV IN: 3.50 @ 0.00%	TO C-08, 12" INV OUT: 3.50 @ 0.00%
C-08	RIM: 7.84 INV IN: 3.50 S INV IN: 3.50 E INV OUT: 3.50 W	FROM RD-08, 8" INV IN: 3.50 @ 0.00% FROM C-07, 12" INV IN: 3.50 @ 0.00%	TO D-17, 12" INV OUT: 3.50 @ 0.00%
C-09	RIM: 7.90 INV IN: 3.50 E INV IN: 3.50 S INV OUT: 3.50 N INV OUT: 3.50 W	FROM RD-09, 4" INV IN: 3.50 @ 0.00% FROM C-10, 12" INV IN: 3.50 @ 0.00%	TO D-17, 12" INV OUT: 3.50 @ 0.00% TO D-42, 8" HDPE INV OUT: 3.50 @ 0.00%
C-10	RIM: 7.90 INV IN: 3.50 E INV IN: 3.50 S INV OUT: 3.50 N	FROM RD-10, 4" INV IN: 3.50 @ 0.00% FROM C-11, 12" INV IN: 3.50 @ 0.00%	TO C-09, 12" INV OUT: 3.50 @ 0.00%
C-11	RIM: 7.90 INV IN: 3.50 E INV IN: 3.50 S INV OUT: 3.50 N	FROM RD-11, 4" INV IN: 3.50 @ 0.00% FROM C-12, 12" INV IN: 3.50 @ 0.00%	TO C-10, 12" INV OUT: 3.50 @ 0.00%
C-12	RIM: 7.90 INV IN: 3.50 E INV OUT: 3.50 N	FROM RD-12, 4" INV IN: 3.50 @ 0.00%	TO C-11, 12" INV OUT: 3.50 @ 0.00%
C-17	MH RIM: 7.65 INV IN: 3.50 E INV IN: 3.50 S INV OUT: 3.50 W	FROM D-15A, 18" HDPE INV IN: 3.50 @ 0.00% FROM D-17, 12" INV IN: 3.50 @ 0.00%	TO D-15, 18" HDPE INV OUT: 3.50 @ 0.00%
CS-01	CONTROL STRUCTURE WEIR @ ELEV. 5.5 RIM: 6.81 INV IN: 3.50 NW INV IN: 3.50 SW INV OUT: 0.84 E	FROM D-04B, 18" HDPE INV IN: 3.50 @ 0.00% FROM D-29, 18" HDPE INV IN: 3.50 @ 0.00%	TO , 36" REINFORCED CONCRETE INV OUT: 0.84 @ 0.39%
D-02A	CB FDOT TYPE E RIM: 6.15 INV OUT: 3.50 W INV OUT: 3.50 E		TO , 18" HDPE INV OUT: 3.50 @ 0.00% TO D-03A, 18" HDPE INV OUT: 3.50 @ 0.00%
D-03A	CB FDOT TYPE E RIM: 6.40 INV IN: 3.50 W WEIR @ 5.50 INV OUT: 3.50 E INV OUT: 3.40 S	FROM D-02A, 18" HDPE INV IN: 3.50 @ 0.00%	TO D-04A, 18" HDPE INV OUT: 3.50 @ 0.00% TO , 18" HDPE INV OUT: 3.40 @ 0.50%
D-04A	CB FDOT TYPE E RIM: 6.33 INV IN: 3.50 W INV OUT: 3.50 E	FROM D-03A, 18" HDPE INV IN: 3.50 @ 0.00%	TO D-04B, 18" HDPE INV OUT: 3.50 @ 0.00%
D-04B	MH W/J BOTTOM RIM: 6.26 INV IN: 3.50 W INV OUT: 3.50 SE INV OUT: 1.09 N	FROM D-04A, 18" HDPE INV IN: 3.50 @ 0.00%	TO CS-01, 18" HDPE INV OUT: 3.50 @ 0.00% TO , 15" REINFORCED CONCRETE INV OUT: 1.09 @ 0.00%
D-05	CB RIM: 6.60 INV OUT: 3.50 E		TO D-06, 18" HDPE INV OUT: 3.50 @ 0.00%
D-06	CB RIM: 6.60 INV IN: 3.50 W INV OUT: 3.50 E	FROM D-05, 18" HDPE INV IN: 3.50 @ 0.00%	TO D-07, 18" HDPE INV OUT: 3.50 @ 0.00%
D-07	CB RIM: 6.60 BRP INV IN: 3.50 W INV IN: 3.50 N WEIR @ 5.50 INV OUT: 3.50 E INV OUT: 3.50 S	FROM D-06, 18" HDPE INV IN: 3.50 @ 0.00% FROM D-34, 18" HDPE INV IN: 3.50 @ 0.00%	TO D-08, 18" HDPE INV OUT: 3.50 @ 0.00% TO , 18" HDPE INV OUT: 3.50 @ 0.00%

STRUCTURE TABLE

STRUCTURE NAME:	DETAILS:	PIPES IN:	PIPES OUT
D-08	CB RIM: 6.58 INV IN: 3.50 W INV OUT: 3.50 E	FROM D-07, 18" HDPE INV IN: 3.50 @ 0.00%	TO D-08A, 18" HDPE INV OUT: 3.50 @ 0.00%
D-08A	CB RIM: 6.40 INV IN: 3.50 W INV OUT: 3.50 N BRP INV OUT: 3.40 S WEIR @ 5.50	FROM D-08, 18" HDPE INV IN: 3.50 @ 0.00%	TO D-08B, 18" HDPE INV OUT: 3.50 @ 0.00% TO , 18" HDPE INV OUT: 3.40 @ 0.50%
D-08B	MH RIM: 6.57 INV IN: 3.50 S INV OUT: 3.50 E	FROM D-08A, 18" HDPE INV IN: 3.50 @ 0.00%	TO D-14B, 18" HDPE INV OUT: 3.50 @ 0.00%
D-10	CB FDOT TYPE E RIM: 6.40 INV OUT: 3.50 E		TO D-11, 18" HDPE INV OUT: 3.50 @ 0.00%
D-11	CB RIM: 6.40 INV IN: 3.50 W INV OUT: 3.50 E INV OUT: 3.50 N WEIR @ 5.50	FROM D-10, 18" HDPE INV IN: 3.50 @ 0.00%	TO D-12, 18" HDPE INV OUT: 3.50 @ 0.00% TO , 18" HDPE INV OUT: 3.50 @ 0.00%
D-12	CB RIM: 6.40 INV IN: 3.50 W INV OUT: 3.50 S	FROM D-11, 18" HDPE INV IN: 3.50 @ 0.00%	TO D-15A, 18" HDPE INV OUT: 3.50 @ 0.00%
D-13	CB FDOT TYPE E RIM: 6.49 INV OUT: 3.50 S INV OUT: 3.50 N BRP		TO D-15B, 18" HDPE INV OUT: 3.50 @ 0.00% TO D-40, 18" HDPE INV OUT: 3.50 @ 0.00%
D-14	CB FDOT TYPE E RIM: 6.40 INV IN: 3.50 E INV OUT: 3.40 N WEIR @ 5.50 INV OUT: 3.50 S	FROM D-14A, 18" HDPE INV IN: 3.50 @ 0.00%	TO , 12" HDPE INV OUT: 3.40 @ 0.50% TO D-15D, 18" HDPE INV OUT: 3.50 @ 0.00%
D-14A	CB FDOT TYPE E RIM: 7.08 INV IN: 3.50 N BRP INV OUT: 3.50 W	FROM D-14B, 12" HDPE INV IN: 3.50 @ 0.00%	TO D-14, 18" HDPE INV OUT: 3.50 @ 0.00%
D-14B	MH W/J BOTTOM RIM: 7.21 INV IN: 3.50 W INV OUT: 3.50 S	FROM D-08B, 18" HDPE INV IN: 3.50 @ 0.00%	TO D-14A, 12" HDPE INV OUT: 3.50 @ 0.00%
D-15	MH W/J BOTTOM RIM: 7.62 INV IN: 3.50 E INV IN: 3.50 SW	FROM C-17, 18" HDPE INV IN: 3.50 @ 0.00% FROM , 12" INV IN: 3.50 @ 0.00%	
D-15A	MH W/J BOTTOM RIM: 7.63 INV IN: 3.50 E INV IN: 3.50 N INV OUT: 3.50 W	FROM D-15B, 18" HDPE INV IN: 3.50 @ 0.00% FROM D-12, 18" HDPE INV IN: 3.50 @ 0.00%	TO C-17, 18" HDPE INV OUT: 3.50 @ 0.00%
D-15B	MH W/J BOTTOM RIM: 7.55 INV IN: 3.50 N INV IN: 3.50 E INV OUT: 3.50 W	FROM D-13, 18" HDPE INV IN: 3.50 @ 0.00% FROM D-15D, 18" HDPE INV IN: 3.50 @ 0.00%	TO D-15A, 18" HDPE INV OUT: 3.50 @ 0.00%
D-15D	MH W/J BOTTOM RIM: 7.48 INV IN: 3.50 E INV IN: 3.50 N INV OUT: 3.50 W	FROM D-16, 12" INV IN: 3.50 @ 0.00% FROM D-14, 18" HDPE INV IN: 3.50 @ 0.00%	TO D-15B, 18" HDPE INV OUT: 3.50 @ 0.00%
D-16	MH W/J BOTTOM RIM: 7.02 INV IN: 3.50 S INV OUT: 3.50 W	FROM D-28A, 12" INV IN: 3.50 @ 0.00%	TO D-15D, 12" INV OUT: 3.50 @ 0.00%
D-17	MH W/J BOTTOM RIM: 7.88 INV IN: 3.50 E INV IN: 3.50 S INV OUT: 3.50 N	FROM C-08, 12" INV IN: 3.50 @ 0.00% FROM C-09, 12" INV IN: 3.50 @ 0.00%	TO C-17, 12" INV OUT: 3.50 @ 0.00%
D-18	MH W/J BOTTOM RIM: 7.57 INV IN: 3.50 S INV OUT: 3.50 W	FROM RD-05, 8" INV IN: 3.50 @ 0.00%	TO C-06, 12" INV OUT: 3.50 @ 0.00%
D-22	CB FDOT TYPE E RIM: 5.50 INV IN: 3.50 S	FROM D-23, 12" INV IN: 3.50 @ 0.00%	
D-23	CB FDOT TYPE E RIM: 6.50 INV IN: 3.50 E INV OUT: 3.50 N	FROM D-24, 12" INV IN: 3.50 @ 0.00%	TO D-22, 12" INV OUT: 3.50 @ 0.00%
D-24	CI FDOT TYPE-9 RIM: 6.50 INV IN: 3.50 N INV OUT: 3.50 W	FROM D-025, 12" INV IN: 3.50 @ 0.00%	TO D-23, 12" INV OUT: 3.50 @ 0.00%

No.	REVISIONS	DATE	BY

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GREGORY D. WILFONG
LICENSED
No. 63166
STATE OF FLORIDA
PROFESSIONAL ENGINEER

KHA PROJECT 147507131
DATE 9/27/2024
SCALE AS SHOWN
DESIGNED BY SHB
DRAWN BY SHB
CHECKED BY GDW

PAVING GRADING AND DRAINAGE STRUCTURE TABLE

OAKWOOD SOUTH RETAIL SHOPPING CENTER
CITY OF HOLLYWOOD FL

SHEET NUMBER
C-303

STRUCTURE TABLE

STRUCTURE NAME:	DETAILS:	PIPES IN:	PIPES OUT
D-025	MH W/J BOTTOM RIM: 7.50 INV IN: 3.50 W INV OUT: 3.50 E INV OUT: 3.50 S	FROM C-02, 12" INV IN: 3.50 @ 0.00%	TO D-26, 12" INV OUT: 3.50 @ 0.00% TO D-24, 12" INV OUT: 3.50 @ 0.00%
D-26	MH W/J BOTTOM RIM: 7.21 INV IN: 3.50 W INV IN: 3.50 N INV OUT: 3.50 E	FROM D-025, 12" INV IN: 3.50 @ 0.00% FROM D-27, 12" INV IN: 3.50 @ 0.00%	TO D-28, 12" INV OUT: 3.50 @ 0.00%
D-27	MH W/J BOTTOM RIM: 7.91 INV IN: 3.50 W INV IN: 3.50 E INV OUT: 3.50 S	FROM C-03, 12" INV IN: 3.50 @ 0.00% FROM C-04, 12" INV IN: 3.50 @ 0.00%	TO D-26, 12" INV OUT: 3.50 @ 0.00%
D-28	CB FDOT TYPE E RIM: 6.57 INV IN: 3.50 W INV OUT: 3.50 N	FROM D-26, 12" INV IN: 3.50 @ 0.00%	TO D-28A, 12" INV OUT: 3.50 @ 0.00%
D-28A	MH RIM: 6.64 INV IN: 3.50 S INV IN: 3.50 E INV OUT: 3.50 N	FROM D-28, 12" INV IN: 3.50 @ 0.00% FROM D-28B, 18" HDPE INV IN: 3.50 @ 0.00%	TO D-16, 12" INV OUT: 3.50 @ 0.00%
D-28B	CB RIM: 6.03 INV OUT: 3.50 W		TO D-28A, 18" HDPE INV OUT: 3.50 @ 0.00%
D-29	CB RIM: 6.40 INV IN: 3.50 W INV OUT: 3.50 NE	FROM D-29B, 18" HDPE INV IN: 3.50 @ 0.00%	TO CS-01, 18" HDPE INV OUT: 3.50 @ 0.00%
D-29B	CB RIM: 6.50 INV IN: 3.50 W INV OUT: 3.50 E	FROM D-30, 18" HDPE INV IN: 3.50 @ 0.00%	TO D-29, 18" HDPE INV OUT: 3.50 @ 0.00%
D-30	CB RIM: 6.50 INV IN: 3.50 W INV OUT: 3.50 S BRP INV OUT: 3.50 E INV OUT: 3.50 N WEIR @ 5.50	FROM D-31, 18" HDPE INV IN: 3.50 @ 0.00%	TO D-34, 18" HDPE INV OUT: 3.50 @ 0.00% TO D-29B, 18" HDPE INV OUT: 3.50 @ 0.00% TO , 18" HDPE INV OUT: 3.50 @ 0.00%
D-31	CB RIM: 6.50 INV IN: 3.50 W INV OUT: 3.50 E	FROM D-32, 18" HDPE INV IN: 3.50 @ 0.00%	TO D-30, 18" HDPE INV OUT: 3.50 @ 0.00%
D-32	CB RIM: 6.73 INV OUT: 3.50 E		TO D-31, 18" HDPE INV OUT: 3.50 @ 0.00%
D-33	MH RIM: 7.79 INV OUT: 4.50 E		TO D-34, 12" HDPE INV OUT: 4.50 @ 0.00%
D-34	MH RIM: 8.00 INV IN: 4.50 W INV IN: 3.50 N INV OUT: 4.50 E INV OUT: 3.50 S	FROM D-33, 12" HDPE INV IN: 4.50 @ 0.00% FROM D-30, 18" HDPE INV IN: 3.50 @ 0.00%	TO D-35, 12" HDPE INV OUT: 4.50 @ 0.00% TO D-07, 18" HDPE INV OUT: 3.50 @ 0.00%
D-35	MH RIM: 7.82 INV IN: 4.50 W	FROM D-34, 12" HDPE INV IN: 4.50 @ 0.00%	
D-36	MH RIM: 7.27 INV IN: 3.50 S INV OUT: 3.50 E INV OUT: 3.50 N WEIR @ 5.50	FROM D-39, 12" HDPE INV IN: 3.50 @ 0.00%	TO D-37, 12" HDPE INV OUT: 3.50 @ 0.00% TO , 12" HDPE INV OUT: 3.50 @ 0.00%
D-37	MH RIM: 6.99 INV IN: 3.50 W INV OUT: 3.50 S INV OUT: 3.40 N WEIR @ 5.50	FROM D-36, 12" HDPE INV IN: 3.50 @ 0.00%	TO D-38, 12" HDPE INV OUT: 3.50 @ 0.00% TO , 12" HDPE INV OUT: 3.40 @ 0.50%
D-38	MH RIM: 6.91 INV IN: 3.50 N INV OUT: 3.50 W INV OUT: 3.50 S	FROM D-37, 12" HDPE INV IN: 3.50 @ 0.00%	TO D-39, 12" HDPE INV OUT: 3.50 @ 0.00% TO D-40, 12" HDPE INV OUT: 3.50 @ 0.00%
D-39	MH RIM: 7.09 INV IN: 3.50 E INV OUT: 3.50 N INV OUT: 3.40 S WEIR @ 5.50	FROM D-38, 12" HDPE INV IN: 3.50 @ 0.00%	TO D-36, 12" HDPE INV OUT: 3.50 @ 0.00% TO , 12" HDPE INV OUT: 3.40 @ 0.50%
D-40	MH RIM: 6.82 INV IN: 3.50 N INV IN: 3.50 S INV OUT: 3.50 W	FROM D-38, 12" HDPE INV IN: 3.50 @ 0.00% FROM D-13, 18" HDPE INV IN: 3.50 @ 0.00%	TO D-41, 12" HDPE INV OUT: 3.50 @ 0.00%
D-41	MH RIM: 7.25 INV IN: 3.50 E	FROM D-40, 12" HDPE INV IN: 3.50 @ 0.00%	

STRUCTURE TABLE

STRUCTURE NAME:	DETAILS:	PIPES IN:	PIPES OUT
D-42	CB RIM: 7.40 INV IN: 3.50 E INV OUT: 3.50 S	FROM C-09, 8" HDPE INV IN: 3.50 @ 0.00%	TO D-43, 8" HDPE INV OUT: 3.50 @ 0.00%
D-43	CB RIM: 7.40 INV IN: 3.50 N INV OUT: 3.50 S	FROM D-42, 8" HDPE INV IN: 3.50 @ 0.00%	TO D-44, 8" HDPE INV OUT: 3.50 @ 0.00%
D-44	CB RIM: 7.40 INV IN: 3.50 N	FROM D-43, 8" HDPE INV IN: 3.50 @ 0.00%	
RD-01	INV OUT: 3.50 S		TO C-01, 8" INV OUT: 3.50 @ 0.00%
RD-02	INV OUT: 3.50 S		TO C-02, 6" INV OUT: 3.50 @ 0.00%
RD-03	INV OUT: 3.50 S		TO C-03, 8" INV OUT: 3.50 @ 0.00%
RD-04	INV OUT: 3.50 S		TO C-04, 8" INV OUT: 3.50 @ 0.00%
RD-05	INV OUT: 3.50 N		TO D-18, 8" INV OUT: 3.50 @ 0.00%
RD-06	INV OUT: 3.50 N		TO C-06, 4" INV OUT: 3.50 @ 0.00%
RD-07	INV OUT: 3.50 N		TO C-07, 4" INV OUT: 3.50 @ 0.00%
RD-08	INV OUT: 3.50 N		TO C-08, 8" INV OUT: 3.50 @ 0.00%
RD-09	INV OUT: 3.50 W		TO C-09, 4" INV OUT: 3.50 @ 0.00%
RD-10	INV OUT: 3.50 W		TO C-10, 4" INV OUT: 3.50 @ 0.00%
RD-11	INV OUT: 3.50 W		TO C-11, 4" INV OUT: 3.50 @ 0.00%
RD-12	INV OUT: 3.50 W		TO C-12, 4" INV OUT: 3.50 @ 0.00%

No.	REVISIONS	DATE	BY

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GREGORY D. WILFONG
LICENSE
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STATE OF FLORIDA
PROFESSIONAL ENGINEER

KHA PROJECT 147507131
DATE 9/27/2024
SCALE AS SHOWN
DESIGNED BY SHB
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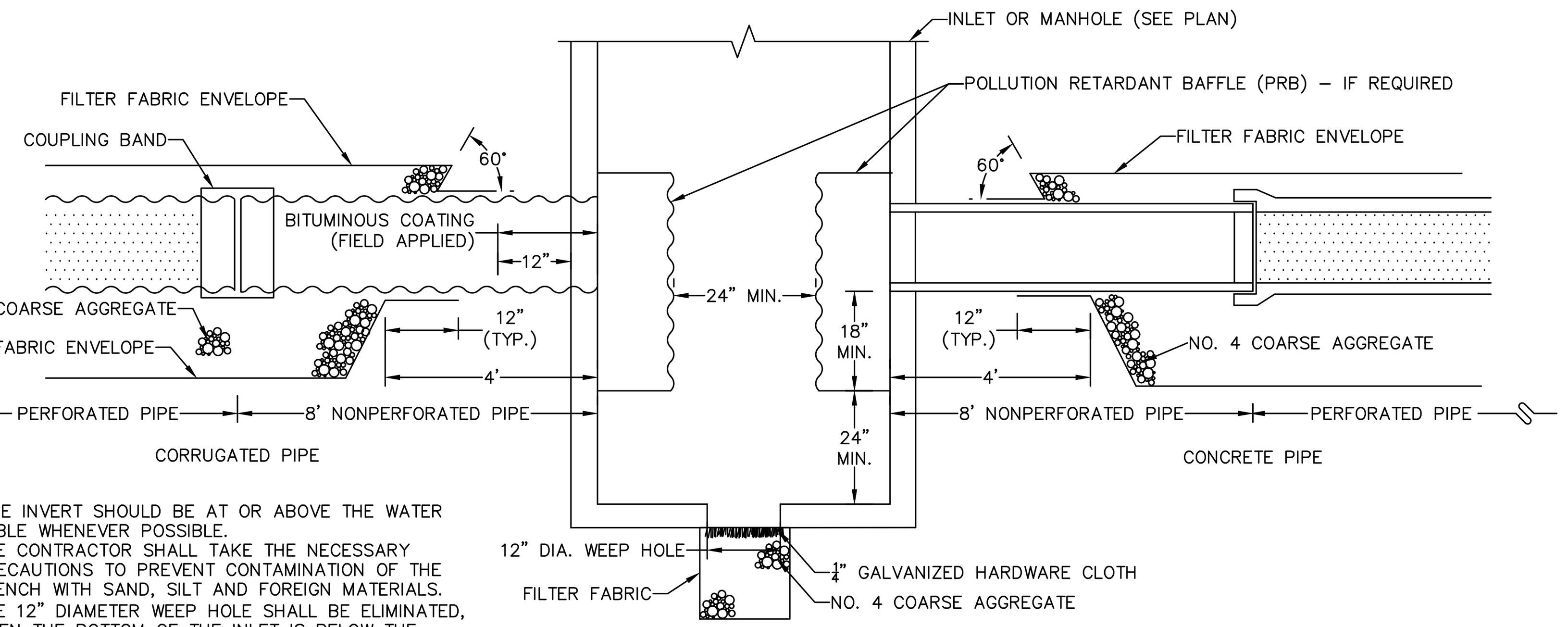
PAVING GRADING AND DRAINAGE STRUCTURE TABLE

OAKWOOD SOUTH RETAIL SHOPPING CENTER

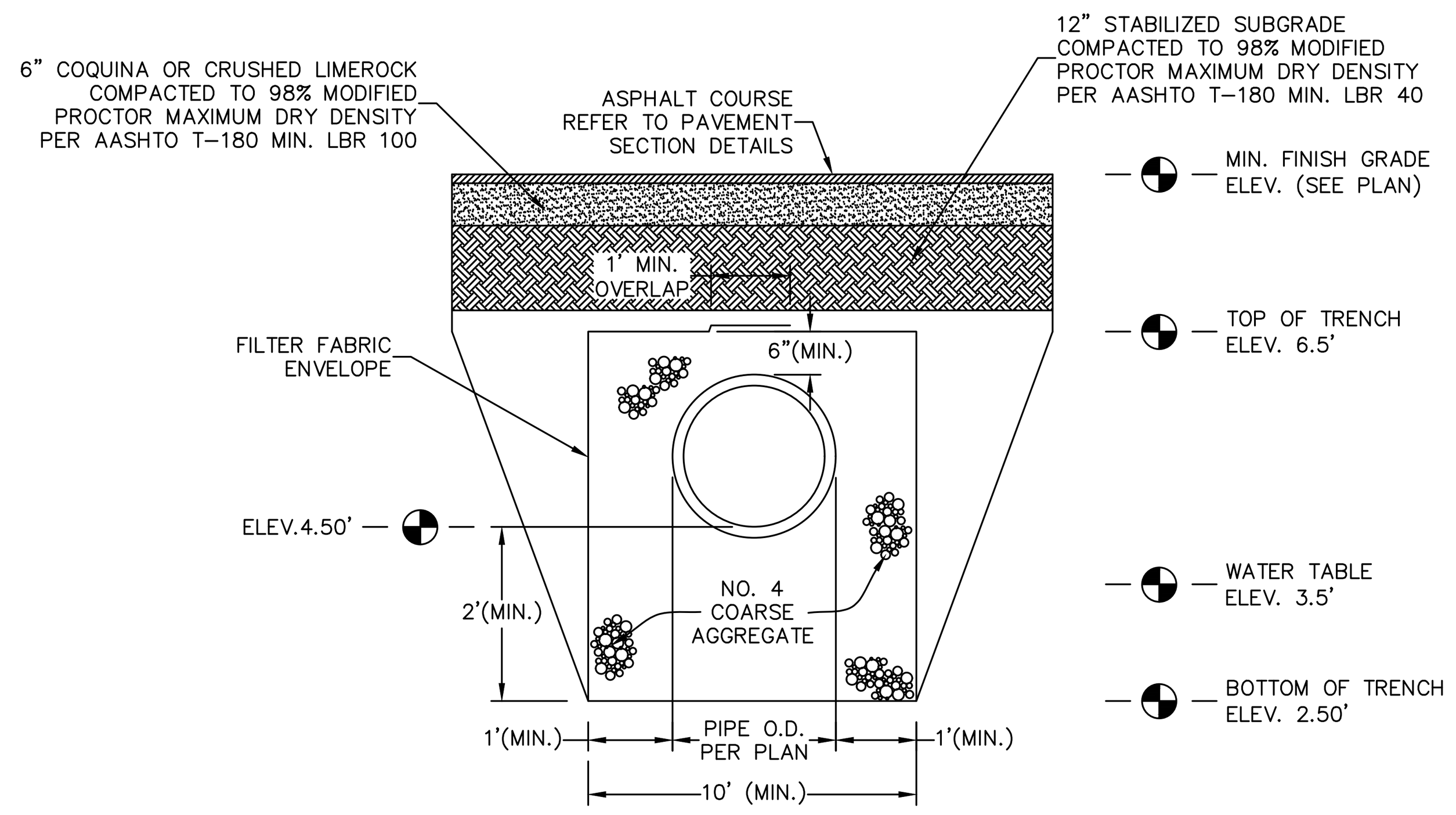
CITY OF HOLLYWOOD FL

SHEET NUMBER
C-304



NOTES:
1. PIPE INVERT SHOULD BE AT OR ABOVE THE WATER TABLE WHENEVER POSSIBLE.
2. THE CONTRACTOR SHALL TAKE THE NECESSARY PRECAUTIONS TO PREVENT CONTAMINATION OF THE TRENCH WITH SAND, SILT AND FOREIGN MATERIALS.
3. THE 12" DIAMETER WEEP HOLE SHALL BE ELIMINATED, WHEN THE BOTTOM OF THE INLET IS BELOW THE NORMAL WATER TABLE, UNLESS OTHERWISE SHOWN IN THE PLANS.

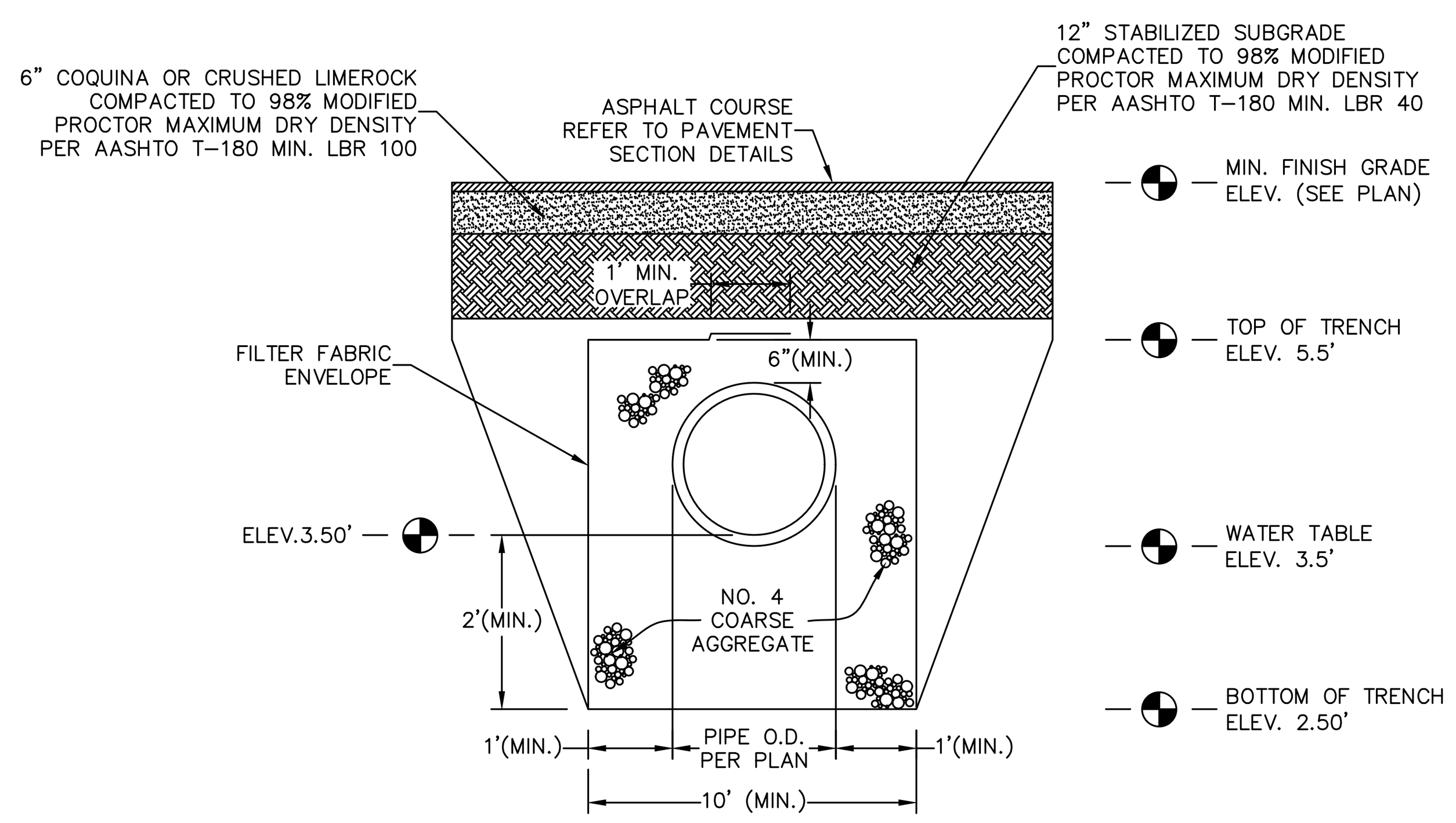
LONGITUDINAL SECTION



CROSS SECTION

DRY EXFILTRATION TRENCH

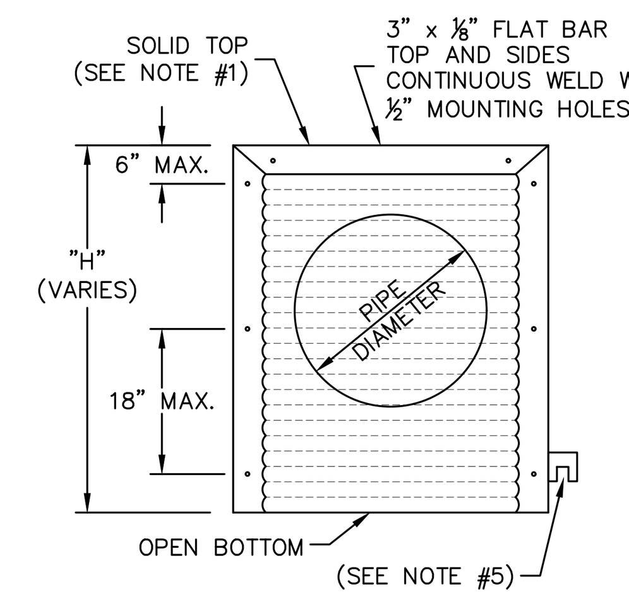
N.T.S



CROSS SECTION

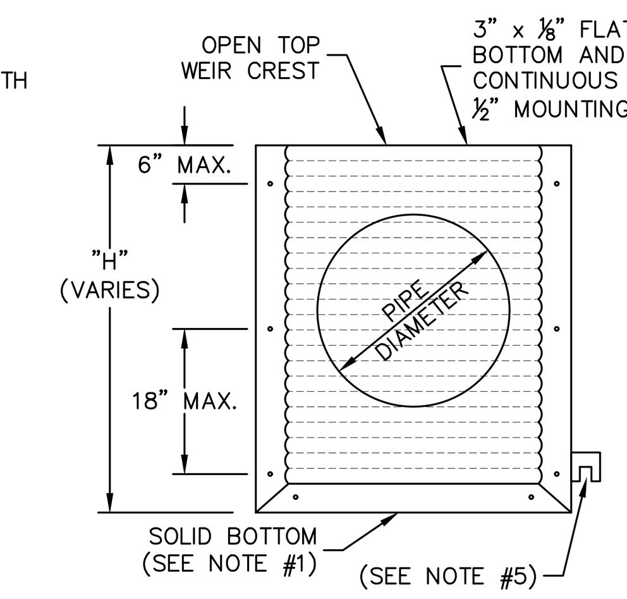
WET EXFILTRATION TRENCH

N.T.S



FRONT VIEW

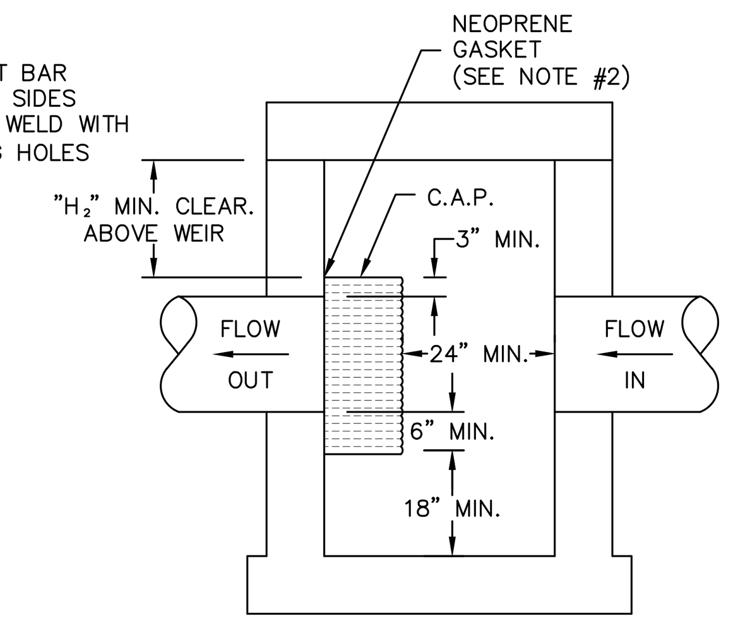
P.R.B. DETAIL



FRONT VIEW

WEIR DETAIL

WEIR SIZE PER PLAN

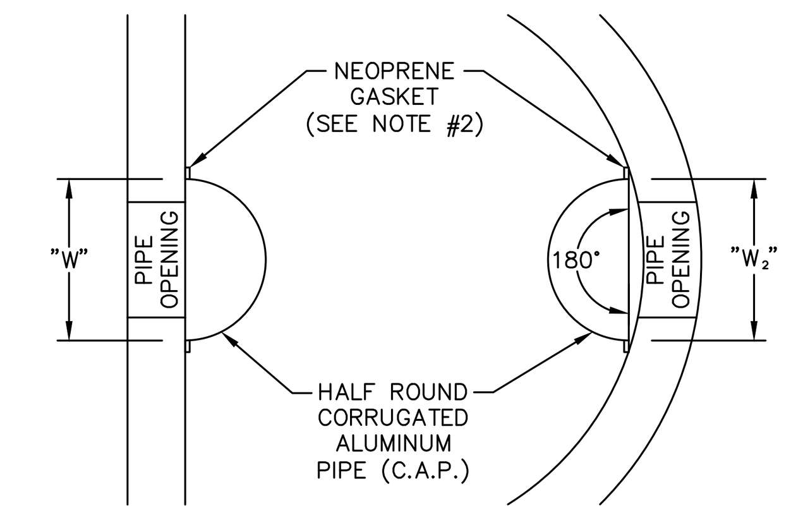


SIDE VIEW

PIPE DIAM.	W (IN)	W_2 (IN)	T (GAUGE)	H_2 (IN)
15"	21"	21"	16	6
18"	24"	24"	16	7
21"	30"	30"	16	8
24"	30"	36"	16	10
30"	36"	42"	14	13
36"	42"	48"	14	16
42"	48"	54"	14	20
48"	54"	60"	14	23
54"	60"	66"	14	26

"W" RECTANGULAR STRUCTURE
"W_2" ROUND STRUCTURE

NOTES:
1. ALUMINUM SHEET OF SAME THICKNESS (GAUGE) AS PIPE SHALL BE WELDED TO CLOSE OPENING AT THE TOP FOR THE BAFFLE OR BOTTOM FOR WEIR.
2. NEOPRENE ADHESIVE BACKED GASKET, OR APPROVED EQUAL (1" x 2") SHALL BE INSTALLED ON THE SIDES AND TOP OF ALL BAFFLES OR BOTTOM OF WEIRS.
3. POLLUTION RETARDANT BAFFLE OR HALF PIPE WEIR TO BE FASTENED IN PLACE WITH ⅜" x 4" STAINLESS STEEL "RED HEADS", OR APPROVED EQUAL.
4. FIBERGLASS BAFFLES AND WEIRS ARE NOT PERMITTED.
5. MOUNTING BRACKETS MAY BE ADDED TO FLAT BARS TO EASE INSTALLATION IN ROUND STRUCTURES. SPACING TO MATCH HOLES IN FLAT BARS.

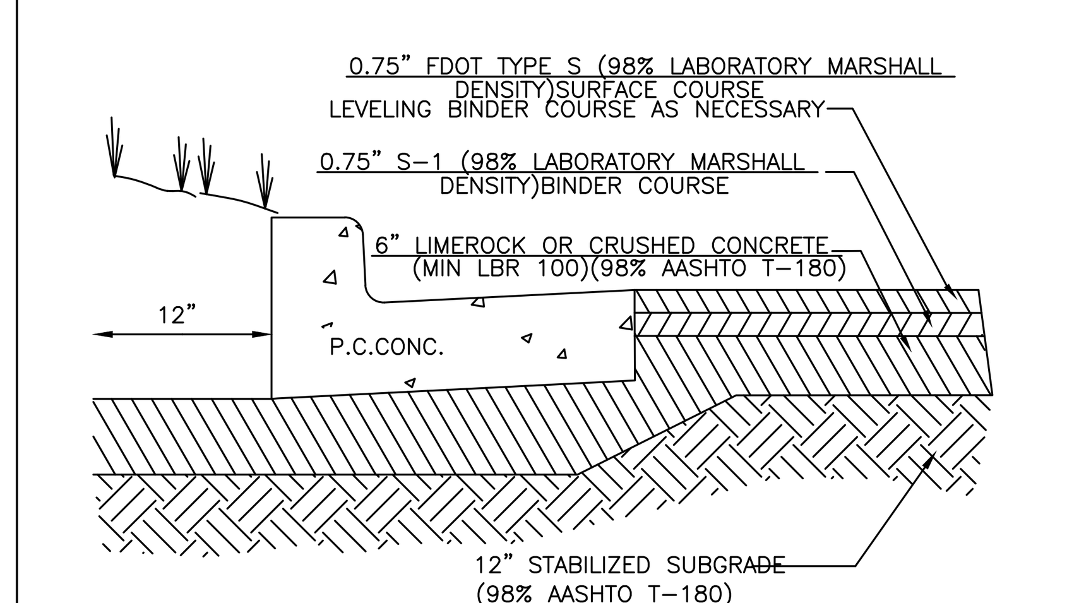


TOP VIEW
RECTANGULAR STRUCTURE

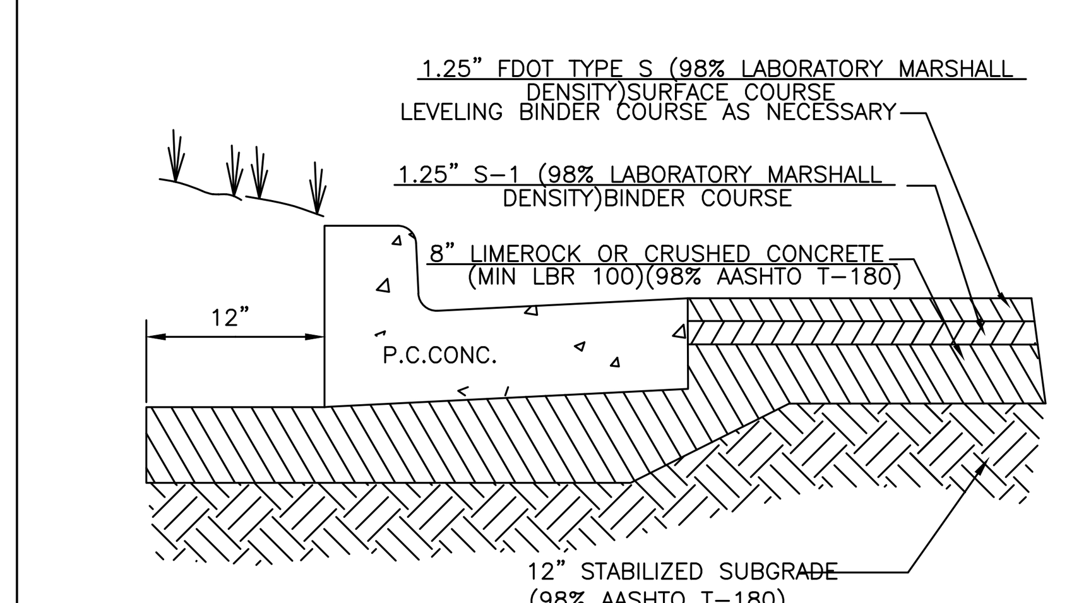
TOP VIEW
ROUND STRUCTURE

POLLUTION RETARDANT BAFFLE (PRB) AND WEIR DETAILS

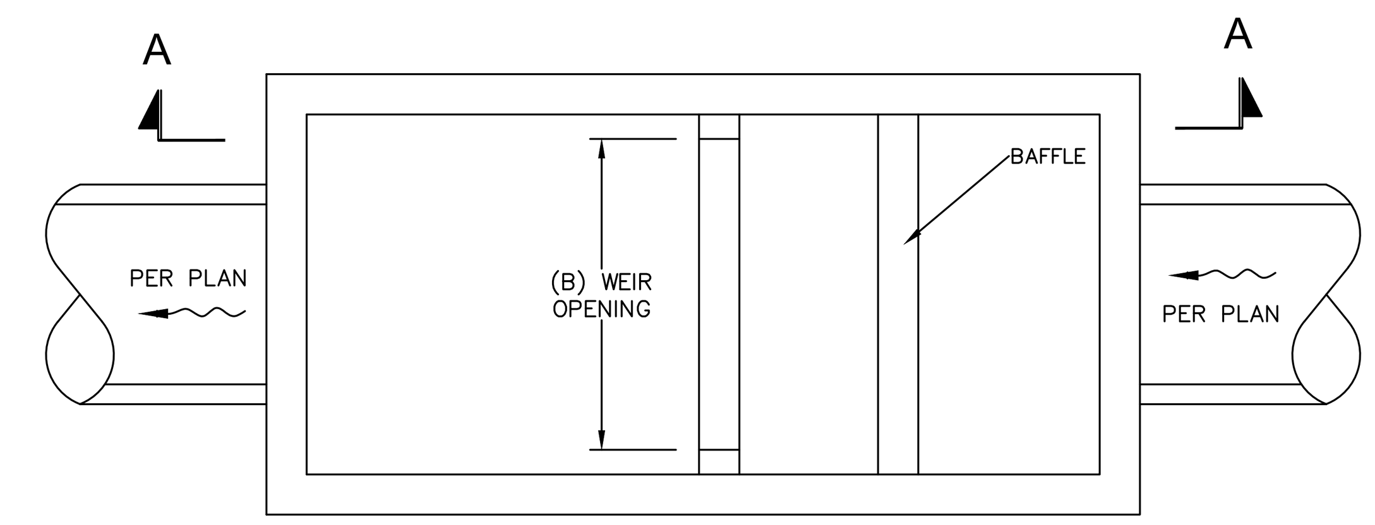
N.T.S



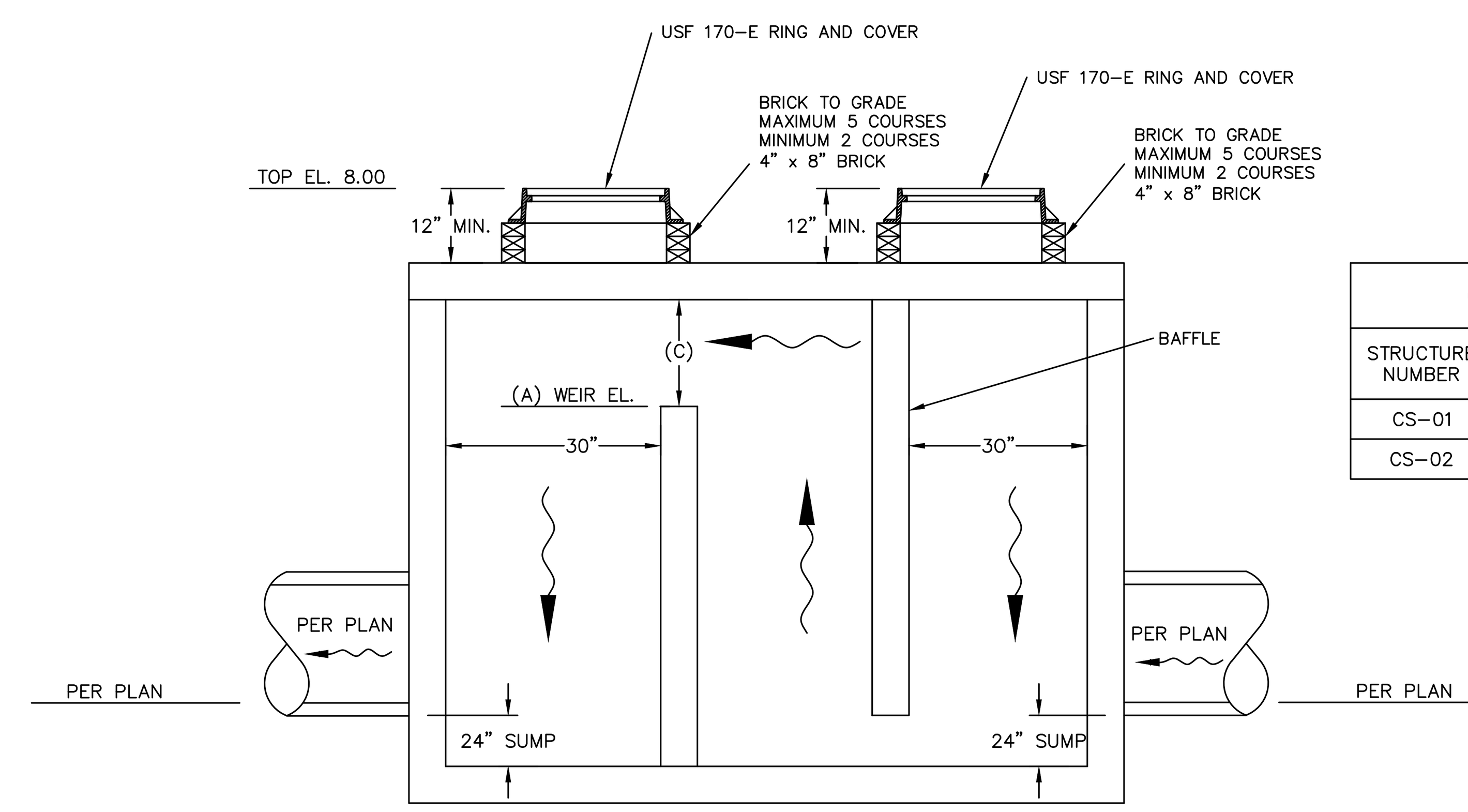
STANDARD DUTY
ASPHALT PAVING



HEAVY DUTY
ASPHALT PAVING



PLAN VIEW



SECTION A-A

CONTROL STRUCTURE (CS-01, CS-02)

N.T.S

CONTROL STRUCTURE DATA

STRUCTURE NUMBER	(A) WEIR ELEVATION	(B) WEIR SPAN (INCHES)	(C) WEIR RISE (INCHES)
CS–01	5.5000	48	12
CS–02	5.5000	48	12

No.	REVISIONS	DATE	BY

Kimley»Horn
© 2024 KIMLEY–HORN AND ASSOCIATES, INC.
445 24TH STREET, SUITE 200, VERO BEACH, FL 32960
PHONE: 772–794–4100
WWW.KIMLEY–HORN.COM REGISTRY NO. 35106

GREGORY D WILFONG

GREGORY D. WILFONG
LICENSE No. 63166
STATE OF FLORIDA
PROFESSIONAL ENGINEER

KHA PROJECT 147507131
DATE 2/26/2024
SCALE AS SHOWN
DESIGNED BY XXX
DRAWN BY XXX
CHECKED BY XXX

PAVING GRADING AND DRAINAGE DETAILS

OAKWOOD SOUTH RETAIL SHOPPING CENTER

CITY OF HOLLYWOOD FL

SHEET NUMBER
C-350

PROJECT INFORMATION	
ENGINEERED PRODUCT MANAGER:	JOSEPH HURT 561-558-6038 JOSEPH.HURT@ADSPIPE.COM
ADS SALES REP:	JOSUE RAUDALES 786-374-5262 JOSUE.RAUDALES@ADSPIPE.COM
PROJECT NO:	S420513

Advanced Drainage Systems, Inc.

ADS SiteAssist™
FOR STORMTECH
INSTALLATION INSTRUCTIONS
VISIT OUR WEBSITE

OAKWOOD SOUTH RETAIL SHOPPING CENTER

HOLLYWOOD, FL

SC-310 STORMTECH CHAMBER SPECIFICATIONS

1. CHAMBERS SHALL BE STORMTECH SC-310.
2. CHAMBERS SHALL BE ARCH-SHAPED AND SHALL BE MANUFACTURED FROM VIRGIN, IMPACT-MODIFIED POLYPROPYLENE OR POLYETHYLENE COPOLYMERS.
3. CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2922 (POLETHYLENE) OR ASTM F2418 (POLYPROPYLENE), "STANDARD SPECIFICATION FOR CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
4. CHAMBER ROWS SHALL PROVIDE CONTINUOUS, UNOBSTRUCTED INTERNAL SPACE WITH NO INTERNAL SUPPORTS THAT WOULD IMPEDE FLOW OR LIMIT ACCESS FOR INSPECTION.
5. THE STRUCTURAL DESIGN OF THE CHAMBERS, THE STRUCTURAL BACKFILL, AND THE INSTALLATION REQUIREMENTS SHALL ENSURE THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12, ARE MET FOR: 1) LONG-DURATION DEAD LOADS AND 2) SHORT-DURATION LIVE LOADS, BASED ON THE AASHTO DESIGN TRUCK WITH CONSIDERATION FOR IMPACT AND MULTIPLE VEHICLE PRESENCES.
6. CHAMBERS SHALL BE DESIGNED, TESTED AND ALLOWABLE LOAD CONFIGURATIONS DETERMINED IN ACCORDANCE WITH ASTM F2787, "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS". LOAD CONFIGURATIONS SHALL INCLUDE: 1) INSTANTANEOUS (<1 MIN) AASHTO DESIGN TRUCK LIVE LOAD ON MINIMUM COVER 2) MAXIMUM PERMANENT (75-YR) COVER LOAD AND 3) ALLOWABLE COVER WITH PARKED (1-WEEK) AASHTO DESIGN TRUCK.
7. REQUIREMENTS FOR HANDLING AND INSTALLATION:
   - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS.
   - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 2".
   - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT SHALL BE GREATER THAN OR EQUAL TO 400 LBS/FT/%. THE ASC IS DEFINED IN SECTION 6.2.8 OF ASTM F2418. AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.
8. ONLY CHAMBERS THAT ARE APPROVED BY THE SITE DESIGN ENGINEER WILL BE ALLOWED. UPON REQUEST BY THE SITE DESIGN ENGINEER OR OWNER, THE CHAMBER MANUFACTURER SHALL SUBMIT A STRUCTURAL EVALUATION FOR APPROVAL BEFORE DELIVERING CHAMBERS TO THE PROJECT SITE AS FOLLOWS:
   - THE STRUCTURAL EVALUATION SHALL BE SEALED BY A REGISTERED PROFESSIONAL ENGINEER.
   - THE STRUCTURAL EVALUATION SHALL DEMONSTRATE THAT THE SAFETY FACTORS ARE GREATER THAN OR EQUAL TO 1.95 FOR DEAD LOAD AND 1.75 FOR LIVE LOAD, THE MINIMUM REQUIRED BY ASTM F2787 AND BY SECTIONS 3 AND 12.12 OF THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS FOR THERMOPLASTIC PIPE.
   - THE TEST DERIVED CREEP MODULUS AS SPECIFIED IN ASTM F2922 SHALL BE USED FOR PERMANENT DEAD LOAD DESIGN EXCEPT THAT IT SHALL BE THE 75-YEAR MODULUS USED FOR DESIGN.
9. CHAMBERS AND END CAPS SHALL BE PRODUCED AT AN ISO 9001 CERTIFIED MANUFACTURING FACILITY.
10. MANIFOLD SIZE TO BE DETERMINED BY SITE DESIGN ENGINEER. SEE TECHNICAL NOTE 6.32 FOR MANIFOLD SIZING GUIDANCE. DUE TO THE ADAPTATION OF THIS CHAMBER SYSTEM TO SPECIFIC SITE AND DESIGN CONSTRAINTS, IT MAY BE NECESSARY TO CUT AND COUPLE ADDITIONAL PIPE TO STANDARD MANIFOLD COMPONENTS IN THE FIELD.
11. ADS DOES NOT DESIGN OR PROVIDE MEMBRANE LINER SYSTEMS. TO MINIMIZE THE LEAKAGE POTENTIAL OF LINER SYSTEMS, THE MEMBRANE LINER SYSTEM SHOULD BE DESIGNED BY A KNOWLEDGEABLE GEOTEXTILE PROFESSIONAL AND INSTALLED BY A QUALIFIED CONTRACTOR.

IMPORTANT - NOTES FOR THE BIDDING AND INSTALLATION OF THE SC-310 SYSTEM

1. STORMTECH SC-310 CHAMBERS SHALL NOT BE INSTALLED UNTIL THE MANUFACTURER'S REPRESENTATIVE HAS COMPLETED A PRE-CONSTRUCTION MEETING WITH THE INSTALLERS.
2. STORMTECH SC-310 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/SC-800/DC-780 CONSTRUCTION GUIDE".
3. CHAMBERS ARE NOT TO BE BACKFILLED WITH A DOZER OR AN EXCAVATOR SITUATED OVER THE CHAMBERS. STORMTECH RECOMMENDS 3 BACKFILL METHODS:
   - STONESHOOTER LOCATED OFF THE CHAMBER BED.
   - BACKFILL AS ROWS ARE BUILT USING AN EXCAVATOR ON THE FOUNDATION STONE OR SUBGRADE.
   - BACKFILL FROM OUTSIDE THE EXCAVATION USING A LONG BOOM HOE OR EXCAVATOR.
4. THE FOUNDATION STONE SHALL BE LEVELED AND COMPACTED PRIOR TO PLACING CHAMBERS.
5. JOINTS BETWEEN CHAMBERS SHALL BE PROPERLY SEATED PRIOR TO PLACING STONE.
6. MAINTAIN MINIMUM - 6" (150 mm) SPACING BETWEEN THE CHAMBER ROWS.
7. EMBEDMENT STONE SURROUNDING CHAMBERS MUST BE A CLEAN, CRUSHED, ANGULAR STONE OR RECYCLED CONCRETE; AASHTO M43 #3, 357, 4, 467, 5, 56, OR 57.
8. THE CONTRACTOR MUST REPORT ANY DISCREPANCIES WITH CHAMBER FOUNDATION MATERIALS BEARING CAPACITIES TO THE SITE DESIGN ENGINEER.
9. ADS RECOMMENDS THE USE OF "FLEXSTORM CATCH IT" INSERTS DURING CONSTRUCTION FOR ALL INLETS TO PROTECT THE SUBSURFACE STORMWATER MANAGEMENT SYSTEM FROM CONSTRUCTION SITE RUNOFF.

NOTES FOR CONSTRUCTION EQUIPMENT

1. STORMTECH SC-310 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/SC-800/DC-780 CONSTRUCTION GUIDE".
2. THE USE OF CONSTRUCTION EQUIPMENT OVER SC-310 & SC-740 CHAMBERS IS LIMITED:
   - NO EQUIPMENT IS ALLOWED ON BARE CHAMBERS.
   - NO RUBBER TIRED LOADERS, DUMP TRUCKS, OR EXCAVATORS ARE ALLOWED UNTIL PROPER FILL DEPTHS ARE REACHED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/SC-800/DC-780 CONSTRUCTION GUIDE".
   - WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT CAN BE FOUND IN THE "STORMTECH SC-310/SC-740/SC-800/DC-780 CONSTRUCTION GUIDE".
3. FULL 36" (900 mm) OF STABILIZED COVER MATERIALS OVER THE CHAMBERS IS REQUIRED FOR DUMP TRUCK TRAVEL OR DUMPING.

USE OF A DOZER TO PUSH EMBEDMENT STONE BETWEEN THE ROWS OF CHAMBERS MAY CAUSE DAMAGE TO THE CHAMBERS AND IS NOT AN ACCEPTABLE BACKFILL METHOD. ANY CHAMBERS DAMAGED BY THE "DUMP AND PUSH" METHOD ARE NOT COVERED UNDER THE STORMTECH STANDARD WARRANTY.

CONTACT STORMTECH AT 1-800-821-6710 WITH ANY QUESTIONS ON INSTALLATION REQUIREMENTS OR WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT.

PROPOSED LAYOUT - BED 1

330	STORMTECH SC-310 CHAMBERS
40	STORMTECH SC-310 END CAPS
6	STONE ABOVE (in)
6	STONE BELOW (in)
40	% STONE VOID
9,569	**INSTALLED SYSTEM VOLUME (CF) ABOVE 3.50 (PERIMETER STONE INCLUDED)**
8,546	SYSTEM AREA (ft²)
560	SYSTEM PERIMETER (ft)

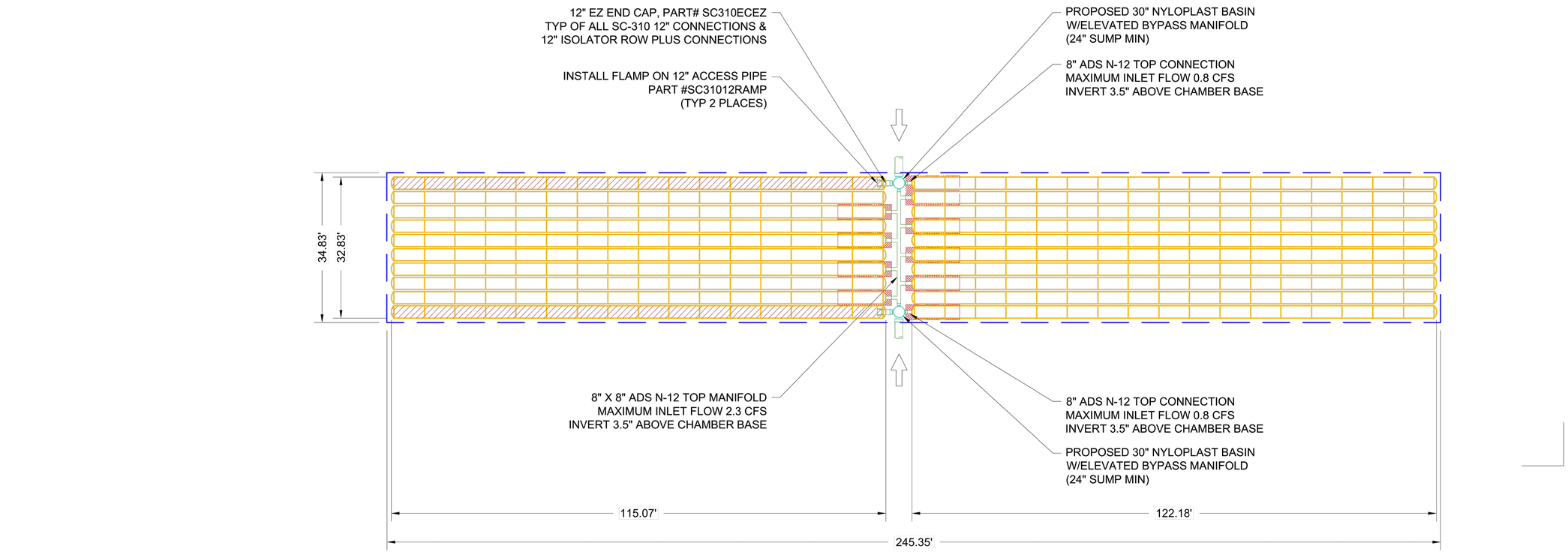
PROPOSED ELEVATIONS - BED 1

12.94	MAXIMUM ALLOWABLE GRADE (TOP OF PAVEMENT/UNPAVED)
6.94	MINIMUM ALLOWABLE GRADE (UNPAVED WITH TRAFFIC)
6.44	MINIMUM ALLOWABLE GRADE (UNPAVED NO TRAFFIC)
6.44	MINIMUM ALLOWABLE GRADE (TOP OF RIGID PAVEMENT)
6.27	MINIMUM ALLOWABLE GRADE (BASE OF FLEXIBLE PAVEMENT)
5.44	TOP OF STONE
4.94	TOP OF SC-310 CHAMBER
3.90	8" TOP MANIFOLD / CONNECTION INVERT
3.69	12" ISOLATOR ROW PLUS CONNECTION INVERT
3.61	BOTTOM OF SC-310 CHAMBER
3.11	BOTTOM OF STONE

TOTAL VOLUME = 46,019 CF ABOVE ELEV. 3.50

NOTES

- THE SITE DESIGN ENGINEER MUST REVIEW ELEVATIONS AND IF NECESSARY ADJUST GRADING TO ENSURE THE CHAMBER COVER REQUIREMENTS ARE MET.



ISOLATOR ROW PLUS (SEE DETAIL)

PLACE MINIMUM 12.5' OF ADSPLUS625 WOVEN GEOTEXTILE
OVER BEDDING STONE AND UNDERNEATH CHAMBER FEET
FOR SCOUR PROTECTION AT ALL CHAMBER INLET ROWS

BED LIMITS

OAKWOOD SOUTH RETAIL
SHOPPING CENTER
HOLLYWOOD, FL

DATE: 07/02/24 | DRAWN: MPV
PROJECT #: S420513 | CHECKED: ---

DATE	DRWN	CHKD	DESCRIPTION
08/30/24	DHC	---	REVISED SYSTEM LAYOUTS
08/28/24	DHC	---	INCREASED VOLUME

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4640 TRUEMAN BLVD
HILLIARD, OH 43026

ADS

50'
25'
0

PROPOSED LAYOUT - BED 2

934	STORMTECH SC-310 CHAMBERS
64	STORMTECH SC-310 END CAPS
6	STONE ABOVE (in)
6	STONE BELOW (in)
40	% STONE VOID
26,418	**INSTALLED SYSTEM VOLUME (CF) ABOVE 3.50 (PERIMETER STONE INCLUDED)**
23,332	SYSTEM AREA (ft²)
753	SYSTEM PERIMETER (ft)

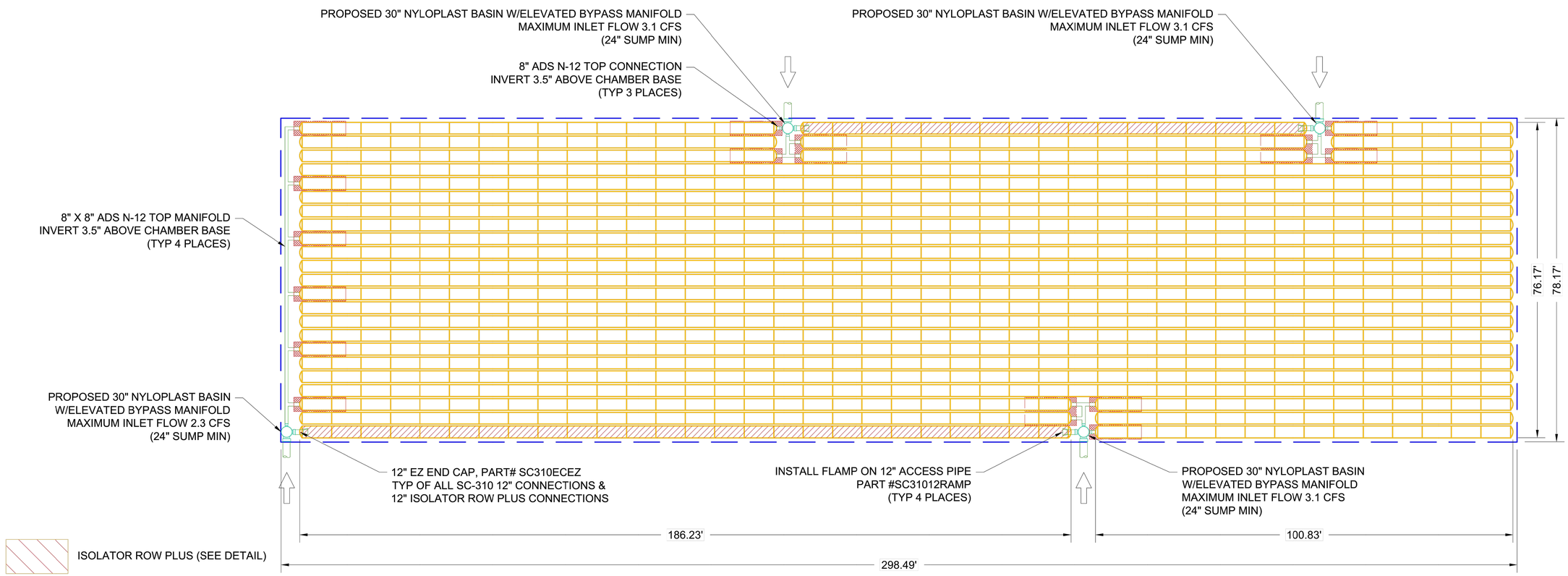
PROPOSED ELEVATIONS - BED 2

12.94	MAXIMUM ALLOWABLE GRADE (TOP OF PAVEMENT/UNPAVED)
6.94	MINIMUM ALLOWABLE GRADE (UNPAVED WITH TRAFFIC)
6.44	MINIMUM ALLOWABLE GRADE (UNPAVED NO TRAFFIC)
6.44	MINIMUM ALLOWABLE GRADE (TOP OF RIGID PAVEMENT)
6.27	MINIMUM ALLOWABLE GRADE (BASE OF FLEXIBLE PAVEMENT)
5.44	TOP OF STONE
4.94	TOP OF SC-310 CHAMBER
3.90	8" TOP MANIFOLD / CONNECTION INVERT
3.69	12" ISOLATOR ROW PLUS CONNECTION INVERT
3.61	BOTTOM OF SC-310 CHAMBER
3.11	BOTTOM OF STONE

NOTES

- THE SITE DESIGN ENGINEER MUST REVIEW ELEVATIONS AND IF NECESSARY ADJUST GRADING TO ENSURE THE CHAMBER COVER REQUIREMENTS ARE MET.

TOTAL VOLUME = 46,019 CF ABOVE ELEV. 3.50



OAKWOOD SOUTH RETAIL
SHOPPING CENTER
HOLLYWOOD, FL

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08/28/24	DHC	---	INCREASED VOLUME

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ADS
4640 TRUEMAN BLVD
HILLIARD, OH 43026

0 25' 50'

PROPOSED LAYOUT - BED 3

231	STORMTECH SC-310 CHAMBERS
32	STORMTECH SC-310 END CAPS
6	STONE ABOVE (in)
6	STONE BELOW (in)
40	% STONE VOID
6,746	**INSTALLED SYSTEM VOLUME (CF) ABOVE 3.50 (PERIMETER STONE INCLUDED)**
6,044	SYSTEM AREA (ft²)
360	SYSTEM PERIMETER (ft)

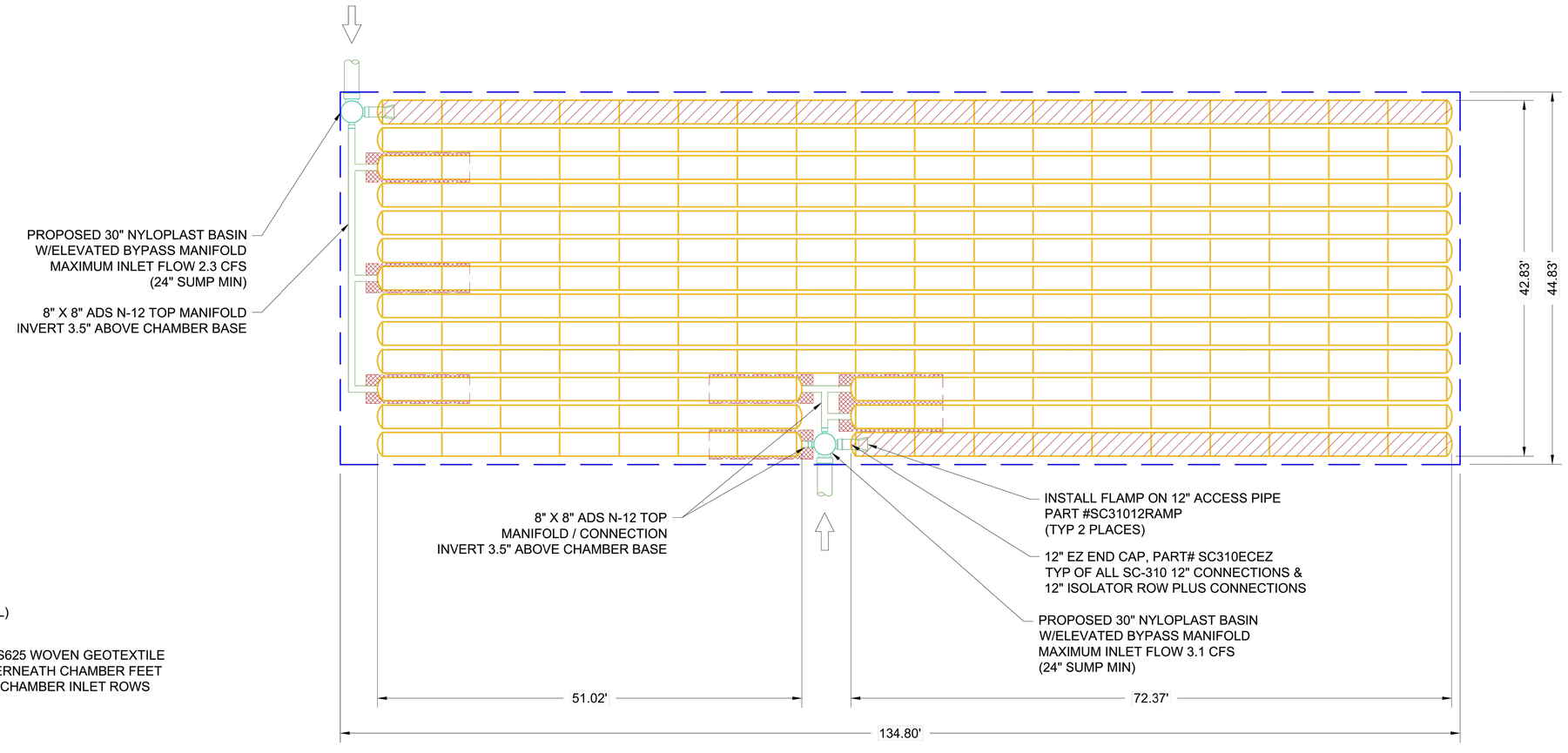
PROPOSED ELEVATIONS - BED 3

12.94	MAXIMUM ALLOWABLE GRADE (TOP OF PAVEMENT/UNPAVED)
6.94	MINIMUM ALLOWABLE GRADE (UNPAVED WITH TRAFFIC)
6.44	MINIMUM ALLOWABLE GRADE (UNPAVED NO TRAFFIC)
6.44	MINIMUM ALLOWABLE GRADE (TOP OF RIGID PAVEMENT)
6.27	MINIMUM ALLOWABLE GRADE (BASE OF FLEXIBLE PAVEMENT)
5.44	TOP OF STONE
4.94	TOP OF SC-310 CHAMBER
3.90	8" TOP MANIFOLD / CONNECTION INVERT
3.69	12" ISOLATOR ROW PLUS CONNECTION INVERT
3.61	BOTTOM OF SC-310 CHAMBER
3.11	BOTTOM OF STONE

TOTAL VOLUME = 46,019 CF ABOVE ELEV. 3.50

NOTES

- THE SITE DESIGN ENGINEER MUST REVIEW ELEVATIONS AND IF NECESSARY ADJUST GRADING TO ENSURE THE CHAMBER COVER REQUIREMENTS ARE MET.



ISOLATOR ROW PLUS (SEE DETAIL)

PLACE MINIMUM 12.5' OF ADSPLUS625 WOVEN GEOTEXTILE OVER BEDDING STONE AND UNDERNEATH CHAMBER FEET FOR SCOUR PROTECTION AT ALL CHAMBER INLET ROWS

BED LIMITS

OAKWOOD SOUTH RETAIL
SHOPPING CENTER
HOLLYWOOD, FL

DATE: 07/02/24 DRAWN: MPV
PROJECT #: S420513 CHECKED: ---

DATE	DRWN	CHKD	DESCRIPTION
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08/28/24	DHC	---	INCREASED VOLUME

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ADS
4640 TRUEMAN BLVD
HILLIARD, OH 43026

30'
15'
0

PROPOSED LAYOUT - BED 4

110	STORMTECH SC-310 CHAMBERS
20	STORMTECH SC-310 END CAPS
6	STONE ABOVE (in)
6	STONE BELOW (in)
40	% STONE VOID
3,286	**INSTALLED SYSTEM VOLUME (CF) ABOVE 3.50 (PERIMETER STONE INCLUDED)**
2,973	SYSTEM AREA (ft²)
240	SYSTEM PERIMETER (ft)

PROPOSED ELEVATIONS - BED 4

12.94	MAXIMUM ALLOWABLE GRADE (TOP OF PAVEMENT/UNPAVED)
6.94	MINIMUM ALLOWABLE GRADE (UNPAVED WITH TRAFFIC)
6.44	MINIMUM ALLOWABLE GRADE (UNPAVED NO TRAFFIC)
6.44	MINIMUM ALLOWABLE GRADE (TOP OF RIGID PAVEMENT)
6.27	MINIMUM ALLOWABLE GRADE (BASE OF FLEXIBLE PAVEMENT)
5.44	TOP OF STONE
4.94	TOP OF SC-310 CHAMBER
3.90	8" TOP MANIFOLD INVERT
3.69	12" ISOLATOR ROW PLUS CONNECTION INVERT
3.61	BOTTOM OF SC-310 CHAMBER
3.11	BOTTOM OF STONE

TOTAL VOLUME = 46,019 CF ABOVE ELEV. 3.50

NOTES

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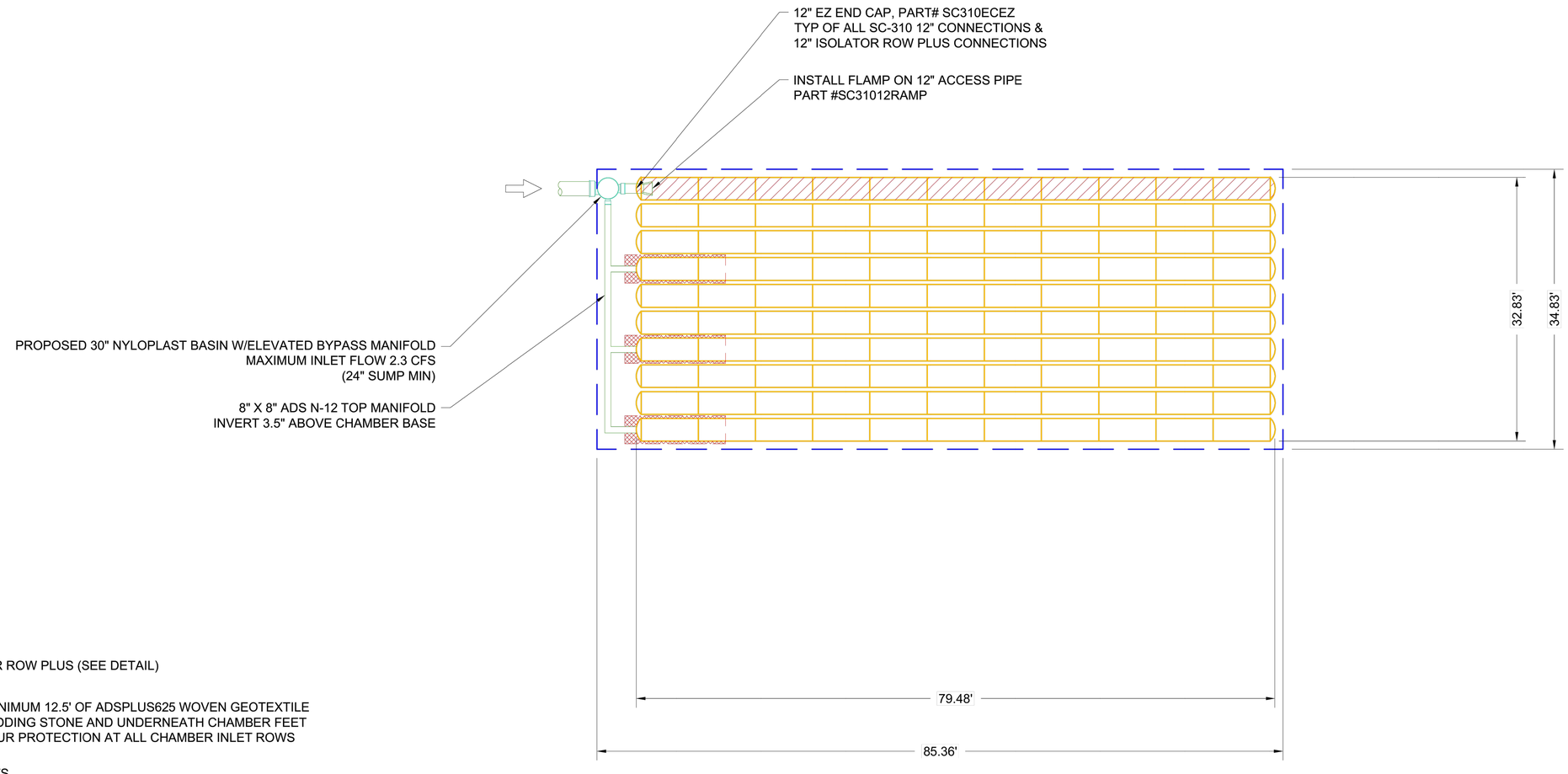

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SHOPPING CENTER
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30'
15'
0