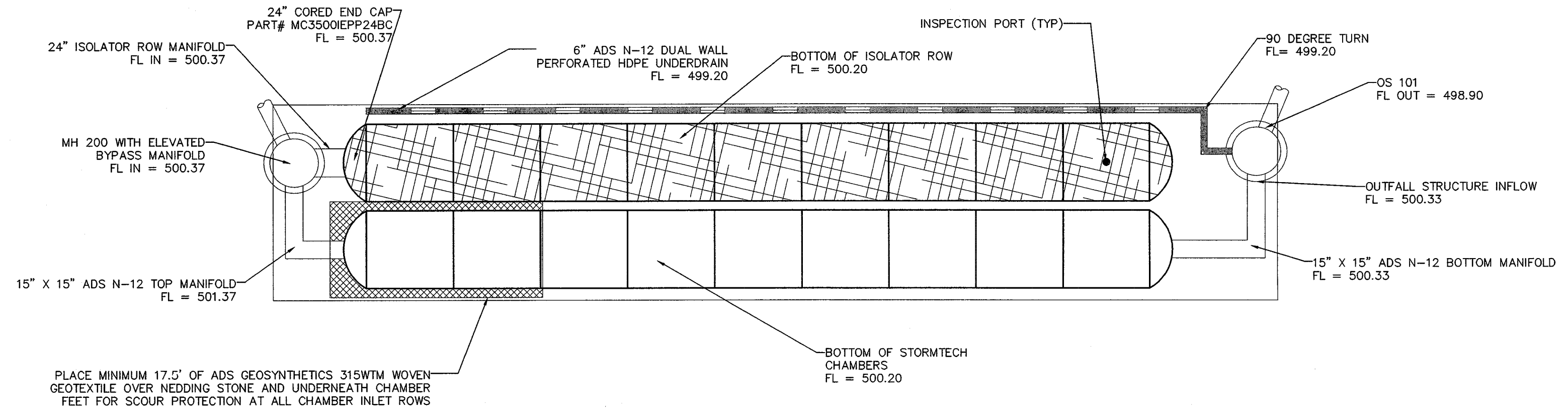


UNDERGROUND DETENTION LAYOUT
1/8\"/>



UNDERGROUND DETENTION SCHEMATIC
NTS

PROPOSED LAYOUT

18	STORMTECH MC-3500 CHAMBERS
4	STORMTECH MC-3500 END CAPS
16	STONE ABOVE (ft)
12	STONE BELOW (ft)
40	% STONE VOID
4,486	INSTALLED SYSTEM VOLUME (CF) (PERIMETER STONE INCLUDED)
1,345	SYSTEM AREA (ft ²)
198	SYSTEM PERIMETER (ft)

PROPOSED ELEVATIONS

MAXIMUM ALLOWABLE GRADE (TOP OF PAVEMENT/UNPAVED):	511.95
MINIMUM ALLOWABLE GRADE (UNPAVED WITH TRAFFIC):	506.45
MINIMUM ALLOWABLE GRADE (UNPAVED NO TRAFFIC):	505.95
MINIMUM ALLOWABLE GRADE (BASE OF FLEXIBLE PAVEMENT):	505.95
MINIMUM ALLOWABLE GRADE (TOP OF RIGID PAVEMENT):	505.95
TOP OF STONE:	505.28
TOP OF MC-3500 CHAMBER:	503.95
15" TOP MANIFOLD INVERT:	501.37
24" ISOLATOR ROW INVERT:	500.37
15" BOTTOM CONNECTION INVERT:	500.33
BOTTOM OF MC-3500 CHAMBER:	500.20
UNDERDRAIN INVERT:	499.20
BOTTOM OF STONE:	499.20

Product selection for FLEXSTORM PURE Filters (Permanent Inlet Protection)

Standard	Inlet Type	Kistler Equivalent	Grate Size	Clear Opening Size	Bag Cap. (ft ³)	Flow Ratings (CF)			FX	FX	PC	PC
						F&F+	PCPC+	Bypass				
36" Open Throat Inlet	Open Throat (WM)	FGP-36CI	N/A	36	2.5	1.9	1.4	N/A	62HDWM36FX	62HDWM36PC	62HDWM36PC	62HDWM36PCP
42" Open Throat Inlet	Open Throat (WM)	FGP-42CI	N/A	42	3.0	2.5	1.7	N/A	62HDWM42FX	62HDWM42PC	62HDWM42PC	62HDWM42PCP
48" Open Throat Inlet	Open Throat (WM)	FGP-48CI	N/A	48	3.3	2.8	2.2	N/A	62HDWM48FX	62HDWM48PC	62HDWM48PC	62HDWM48PCP
60" Open Throat Inlet (2 pieces)	Open Throat (WM)	FGP-60CI	N/A	60	4.2	3.6	2.8	N/A	62HDWM60FX	62HDWM60PC	62HDWM60PC	62HDWM60PCP
84" Open Throat Inlet (2 pieces)	Open Throat (WM)	FGP-84CI	N/A	84	5.8	5.0	3.4	N/A	62HDWM84FX	62HDWM84PC	62HDWM84PC	62HDWM84PCP
108" Open Throat Inlet (2 pieces)	Open Throat (WM)	FGP-108CI	N/A	96	6.6	5.6	4.4	N/A	62HDWM96FX	62HDWM96PC	62HDWM96PC	62HDWM96PCP
48" Open Throat with Side Wings	Open Throat (WM)	N/A	N/A	48 Winged	5.1	2.7	1.7	N/A	62HDWM4818FX	62HDWM4818PC	62HDWM4818PC	62HDWM4818PCP

INSTALLATION AND MAINTENANCE INSTRUCTIONS

- ENTER MANHOLE OPENING WITH INLET FILTER AND MOUNTING HARDWARE
- ALIGN FILTER FRAME WITH CURB OPENING AND MARK CENTERLINE OF EACH FRAME HANGER BRACKET
- USING SUPPLIED WALL MOUNT BRACKETS, MARK LOCATION OF BRACKET SCREW HOLES SPACED 1" DOWN FROM TOP LEDGE OF CONCRETE
- USING HAMMER DRILL, DRILL HOLE TO RECOMMENDED DEPTH OF SPECIFIED FASTENER
- SECURE THE WALL MOUNT BRACKETS USING CONCRETE FASTENERS AND HANG THE FLEXSTORM INLET ASSEMBLY
- FOR MAINTENANCE LIFT THE FILTER FRAME OFF MOUNTING BRACKETS AND CARRY UP THROUGH MANHOLE OPENING. ALTERNATIVELY SERVICE WITH TRUCK MOUNTED VACUUM.

ALL PRODUCTS MANUFACTURED BY INLET & PIPE PROTECTION, INC. A DIVISION OF ADS, INC. WWW.INLETFILTERS.COM (866) 287-8635 PH (630) 335-3477 FX INF@INLETFILTERS.COM

PROJECT TITLE:
SCCAD BASE 5
8490 MEXICO RD.
ST. PETERS, MO. 63376

ENGINEERING PLANNING SURVEYING
231 Point West Blvd.
St. Charles, MO 63301
(636) 928-5532
FAX 636-1718

DISCLAIMER OF RESPONSIBILITY
I hereby specify that the documents intended to be authorized by my seal are limited to this sheet, and I hereby disclaim any responsibility for all other drawings, specifications, estimates, reports or other documents or representations made or intended to be used for any purpose other than architectural or engineering.

LARRY D. WALKER
CIVIL ENGINEER
2007020343
8/27/17

REVISIONS

5-10-17	CITY SUBMITAL
6-9-17	BID SET
7-18-17	CITY COMMENTS

Developer / Owner:
ST. CHARLES COUNTY AMBULANCE DISTRICT
4169 OLD MILL PARKWAY
ST. PETERS, MISSOURI 63376

DETENTION DETAILS 2

P+Z No. #1302.15.01
approved (5-5-2016)
extension (7-6-17)
City No. #17-003492