

PROJECT INFORMATION	
ENGINEERED	STEVE MESSINA
PRODUCT	214-605-7818
MANAGER	STEVE.MESSINA@ADS-PIPE.COM
ADS SALES REP:	MICHAEL MARTINEZ
	214-548-9923
	MICHAEL.MARTINEZ@ADS-PIPE.COM
PROJECT NO:	509200



RANDALL NOE SUBARU ROCKWALL, TX

ADS RETENTION/DETENTION PIPE SYSTEM SPECIFICATION

SCOPE
THIS SPECIFICATION DESCRIBES ADS RETENTION/DETENTION PIPE SYSTEMS FOR USE IN NON-PRESSURE GRAVITY-FLOW STORM WATER COLLECTION SYSTEMS UTILIZING A CONTINUOUS OUTFALL STRUCTURE.

PIPE REQUIREMENTS
ADS RETENTION/DETENTION SYSTEMS MAY UTILIZE ANY OF THE VARIOUS PIPE PRODUCTS BELOW:

- N-12 STIB PIPE (PER AASHTO) SHALL MEET AASHTO M 294, TYPE 5 OR ASTM F2306
 - N-12 STIB PIPE (PER ASTM F2648) SHALL MEET ASTM F2648
 - N-12 MEGA GREEN STIB SHALL MEET ASTM F2648
- ALL PRODUCTS SHALL HAVE A SMOOTH INTERIOR AND ANNULAR EXTERIOR CORRUGATIONS. ALL STIB PIPE PRODUCTS ARE AVAILABLE AS PERFORATED OR NON-PERFORATED. WTIB PIPE PRODUCTS ARE ONLY AVAILABLE AS NON-PERFORATED. PRODUCT-SPECIFIC PIPE SPECIFICATIONS ARE AVAILABLE IN THE DRAINAGE HANDBOOK SECTION 1 "SPECIFICATIONS".

JOINT PERFORMANCE
PLAIN END / SOIL-TIGHT (STIB):
STIB PIPE SHALL BE JOINED USING A BELL AND SPIGOT JOINT. THE BELL AND SPIGOT JOINT SHALL MEET THE SOIL-TIGHT REQUIREMENTS OF ASTM F2306 AND GASKETS SHALL MEET THE REQUIREMENTS OF ASTM F477.

PLAIN END PIPE AND FITTINGS CONNECTIONS SHALL BE JOINED WITH COUPLING BANDS COVERING AT LEAST TWO FULL CORRUGATIONS ON EACH END OF THE PIPE. GASKETED SOIL-TIGHT COUPLING BAND CONNECTIONS SHALL INCORPORATE A CLOSED-CELL SYNTHETIC EXPANDED RUBBER GASKET MEETING THE REQUIREMENTS OF ASTM D1056 GRADE 2AZ GASKETS. WHEN APPLICABLE, SHALL BE INSTALLED BY THE PIPE MANUFACTURER.

FITTINGS
FITTINGS SHALL CONFORM TO ASTM F2306 AND MEET JOINT PERFORMANCE INDICATED ABOVE FOR FITTINGS CONNECTIONS. CUSTOM FITTINGS ARE AVAILABLE AND MAY REQUIRE SPECIAL INSTALLATION CRITERION.

INSTALLATION
INSTALLATION SHALL BE IN ACCORDANCE WITH ASTM D2321 AND ADS RECOMMENDED INSTALLATION GUIDELINES. WITH THE EXCEPTION THAT MINIMUM COVER IN NON-TRAFFIC AREAS FOR 12-60 INCH (300-1500 mm) DIAMETERS SHALL BE 1 FT (0.3 m). MINIMUM COVER IN TRAFFICKED AREAS FOR 12-36 INCH (300-900 mm) DIAMETERS SHALL BE 1 FT (0.3 m) AND FOR 42-60 INCH (1050-1500 mm) DIAMETERS, THE MINIMUM COVER SHALL BE 2 FT (0.6 m). BACKFILL SHALL CONSIST OF CLASS II (COMPACTED) OR CLASS III (MINIMUM 95% SPD) MATERIAL. WITH THE EXCEPTION THAT 60 INCH (1500 mm) SYSTEMS SHALL USE CLASS I MATERIAL ONLY. MINIMUM COVER HEIGHTS DO NOT ACCOUNT FOR PIPE BUOYANCY. REFER TO ADS TECHNICAL NOTE 5.05 "PIPE FLOTATION" FOR BUOYANCY DESIGN CONSIDERATIONS. MAXIMUM COVER OVER SYSTEM USING STANDARD BACKFILL IS 8 FT (2.4 m). CONTACT A REPRESENTATIVE WHEN MAXIMUM FILL HEIGHT MAY BE EXCEEDED. ADDITIONAL INSTALLATION REQUIREMENTS ARE PROVIDED IN THE DRAINAGE HANDBOOK SECTION 6 "RETENTION/DETENTION".

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:

- ALL ELEVATIONS, DIMENSIONS AND LOCATIONS OF RISERS, INLETS AND OUTLETS, SHALL BE VERIFIED BY THE ENGINEER PRIOR TO RELEASING FOR FABRICATION.
- IN SITUATIONS WHERE A FINE-GRAINED BACKFILL MATERIAL IS USED ADJACENT TO THE PIPE SYSTEM, AND ESPECIALLY INVOLVING GROUND WATER CONDITIONS, CONSIDERATION SHOULD BE GIVEN TO THE USE OF GASKETED PIPE JOINTS. AT THE VERY LEAST THE PIPE JOINTS SHOULD BE WRAPPED IN A SUITABLE, NON-WOVEN GEOTEXTILE FABRIC TO PREVENT INFILTRATION OF FINES INTO THE PIPE SYSTEM.
- CONSIDERATION FOR CONSTRUCTION EQUIPMENT LOADS MUST BE TAKEN INTO ACCOUNT.
- ALL PIPE DIMENSIONS ARE SUBJECT TO MANUFACTURERS TOLERANCES.
- ALL RISERS TO BE FIELD EXTENDED OR TRIMMED TO FINAL GRADE.

THE UNDERSIGNED HEREBY APPROVES THE ATTACHED PAGES.

CUSTOMER _____ DATE _____

BILL OF MATERIALS

*THE COMPONENTS AND QUANTITIES LISTED HEREIN ARE NOT INTENDED TO BE A COMPREHENSIVE MATERIAL LIST. EXTRA COMPONENTS, NOT LISTED HEREIN, MAY BE NECESSARY TO COMPLETE THE CONSTRUCTION OF THE SYSTEM.

ITEM	QTY.	PART #	DESCRIPTION	MATERIAL	VENDOR	NOTE
1	1	TEE-1	36" SINGLE MANIFOLD TEE	HDPE	ADS	SEE DETAIL
2	1	TEE-2	48" SINGLE MANIFOLD TEE	HDPE	ADS	SEE DETAIL
3	1	TEE-3	48" SINGLE MANIFOLD TEE	HDPE	ADS	SEE DETAIL
4	1	TEE-4	60" SINGLE MANIFOLD TEE	HDPE	ADS	SEE DETAIL
5	1	TEE-5	60" SINGLE MANIFOLD TEE	HDPE	ADS	SEE DETAIL
6	1	4852AN	48" DOUBLE MANIFOLD TEE	HDPE	ADS	SEE DETAIL
7	1	3652AN	36" DOUBLE MANIFOLD TEE	HDPE	ADS	SEE DETAIL
8	1	3651AN	36" SINGLE MANIFOLD TEE	HDPE	ADS	SEE DETAIL
9	2	4851AN	48" SINGLE MANIFOLD TEE	HDPE	ADS	SEE DETAIL
10	1	3696AN	36" X 90" MANIFOLD BEND	HDPE	ADS	SEE DETAIL
11	1	4896AN	48" X 90" MANIFOLD BEND	HDPE	ADS	SEE DETAIL
12	1	BEND-1	36" X 90" MANIFOLD BEND	HDPE	ADS	SEE DETAIL
13	1	BEND-2	36" X 90" MANIFOLD BEND	HDPE	ADS	SEE DETAIL
14	1	6096ANC-1	60" X 90" MANIFOLD BEND	HDPE	ADS	SEE DETAIL
14-1	1	1806AN	18" STUB	HDPE	ADS	COMPONENT
15	2	6051AN	60" SINGLE MANIFOLD TEE	HDPE	ADS	SEE DETAIL
16	3	6096AN	60" X 90" MANIFOLD BEND	HDPE	ADS	SEE DETAIL
17	13	6052AN	60" DOUBLE MANIFOLD TEE	HDPE	ADS	SEE DETAIL
18	20	3685-020IB	36" PIPE STICK : SOLID	HDPE	ADS	STIB
19	20	4885-020IB	48" PIPE STICK : SOLID	HDPE	ADS	STIB
20	79	6085-020IB	60" PIPE STICK : SOLID	HDPE	ADS	STIB
21	1	STICK-1	36" PIPE STICK : SOLID	HDPE	ADS	SEE DETAIL
22	3	STICK-2	36" PIPE STICK : SOLID	HDPE	ADS	FIELD CUT
23	1	STICK-3	36" PIPE STICK : SOLID	HDPE	ADS	SEE DETAIL
24	1	STICK-4	36" PIPE STICK : SOLID	HDPE	ADS	FIELD CUT
25	1	STICK-5	36" PIPE STICK : SOLID	HDPE	ADS	FIELD CUT
26	3	STICK-6	48" PIPE STICK : SOLID	HDPE	ADS	FIELD CUT
27	2	STICK-7	48" PIPE STICK : SOLID	HDPE	ADS	FIELD CUT
28	17	STICK-8	60" PIPE STICK : SOLID	HDPE	ADS	FIELD CUT
29	1	STICK-9	48" PIPE STICK : SOLID	HDPE	ADS	FIELD CUT
30	1	STICK-10	48" PIPE STICK : SOLID	HDPE	ADS	FIELD CUT
31	2	STICK-11	60" PIPE STICK : SOLID	HDPE	ADS	FIELD CUT
32	1	STICK-12	60" PIPE STICK : SOLID	HDPE	ADS	FIELD CUT
33	9	STICK-13	60" PIPE STICK : SOLID	HDPE	ADS	FIELD CUT
34	1	STICK-14	60" PIPE STICK : SOLID	HDPE	ADS	FIELD CUT
35	5	STICK-15	60" PIPE STICK : SOLID	HDPE	ADS	FIELD CUT
12		3665AA	36" SPLIT COUPLERS	HDPE	ADS	NOT SHOWN
13		4865AA	48" SPLIT COUPLERS	HDPE	ADS	NOT SHOWN
53		6065AA	60" SPLIT COUPLERS	HDPE	ADS	NOT SHOWN
1		TBD BY ENGINEER	ADS GEOTEXTILE FABRIC	AS SPECIFIED	ADS	AS NEEDED

REV: 04/18/18 DATE: 04/18/18 DRAWN: BEW CHECKED: AD
PROJECT #: 509200

DESCRIPTION: 36" & 48" STIB SOLID DETENTION SYSTEM
REV: 04/18/18 DATE: 04/18/18 DRAWN: BEW CHECKED: AD
PROJECT #: 509200

4640 TREUMAN BLVD
HILLIARD, OH 43026

ADS
ADVANCED DRAINAGE SYSTEMS, INC.

RANDALL NOE SUBARU
ROCKWALL, TX

Owner:
Rockwall Rental Properties
PO Box 818 • Terrell, Texas 75060

RANDALL NOE
SUBARU
I-30 ROCKWALL, TX

REV: 04/18/18 DATE: 04/18/18 DRAWN: BEW CHECKED: AD
PROJECT #: 509200

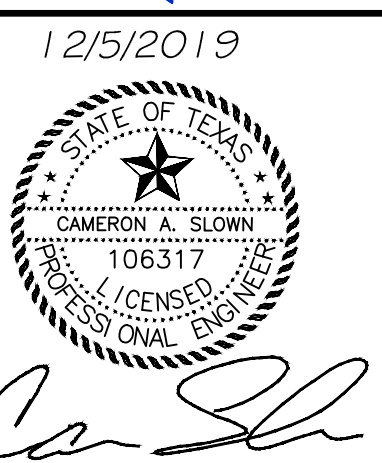
DESCRIPTION: 36" & 48" STIB SOLID DETENTION SYSTEM
REV: 04/18/18 DATE: 04/18/18 DRAWN: BEW CHECKED: AD
PROJECT #: 509200

4640 TREUMAN BLVD
HILLIARD, OH 43026

ADS
ADVANCED DRAINAGE SYSTEMS, INC.

RANDALL NOE SUBARU
ROCKWALL, TX

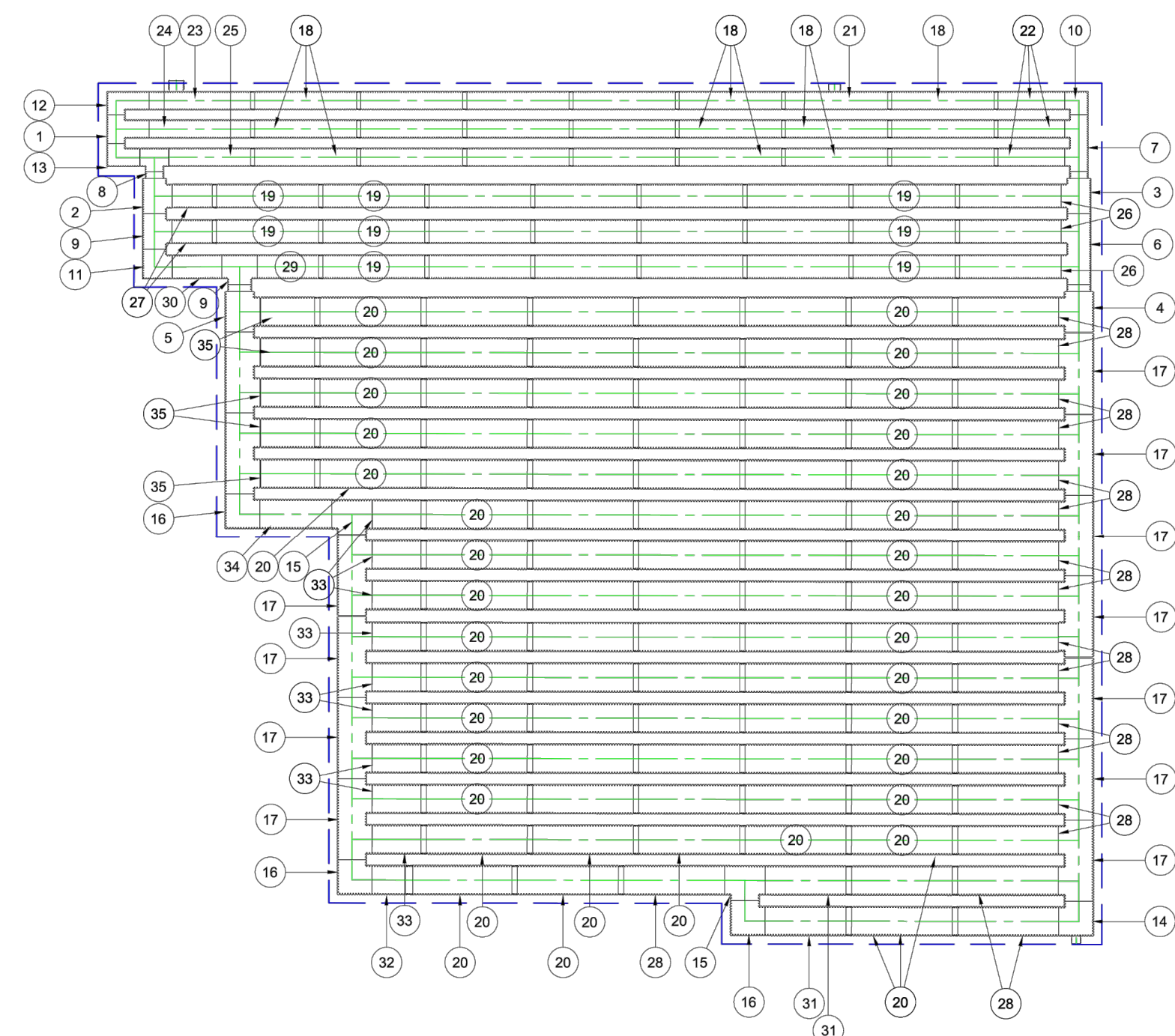
~ Civil Engineer ~
F.C. CUNY CORPORATION
#2 Horizon Court • Ste. 500 • Heath, Texas 75032
Phone: 469-402-7700
Fax: 469-402-0700
Texas Registered Engineering Firm F-7449



Drawn By: F.C. CUNY
Checked By: F.C. CUNY
Date: 09/18
Project No.: -

Sheet Title:
Detention Pond Details

Scale: Sheet No.:
10D of 11



NOTES

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

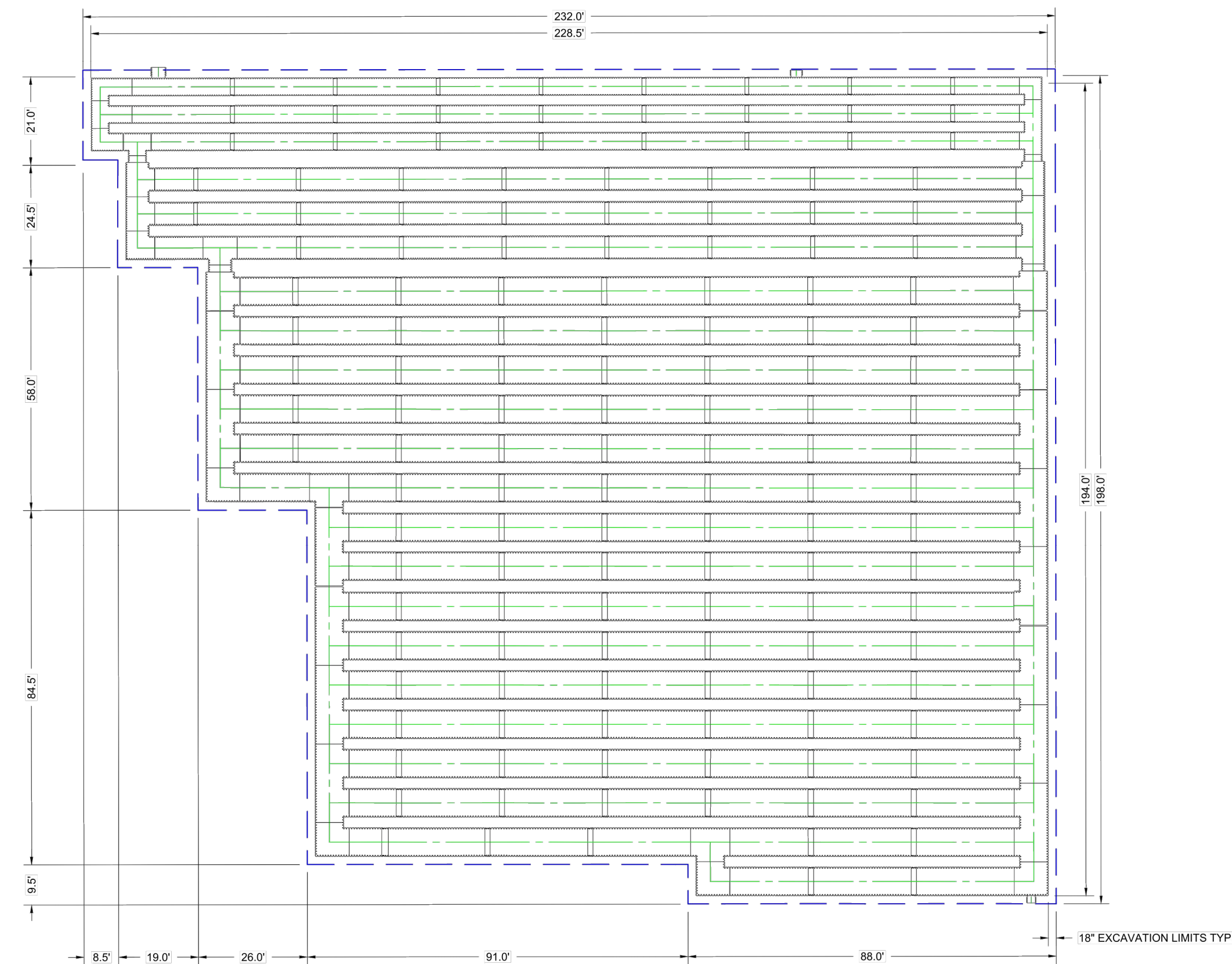
REV: 04/18/18 DATE: 04/18/18 DRAWN: BEW CHECKED: AD
PROJECT #: 509200

DESCRIPTION: 36" & 48" STIB SOLID DETENTION SYSTEM
REV: 04/18/18 DATE: 04/18/18 DRAWN: BEW CHECKED: AD
PROJECT #: 509200

4640 TREUMAN BLVD
HILLIARD, OH 43026

ADS
ADVANCED DRAINAGE SYSTEMS, INC.

RANDALL NOE SUBARU
ROCKWALL, TX



REV: 04/18/18 DATE: 04/18/18 DRAWN: BEW CHECKED: AD
PROJECT #: 509200

DESCRIPTION: 36" & 48" STIB SOLID DETENTION SYSTEM
REV: 04/18/18 DATE: 04/18/18 DRAWN: BEW CHECKED: AD
PROJECT #: 509200

4640 TREUMAN BLVD
HILLIARD, OH 43026

ADS
ADVANCED DRAINAGE SYSTEMS, INC.

RANDALL NOE SUBARU
ROCKWALL, TX