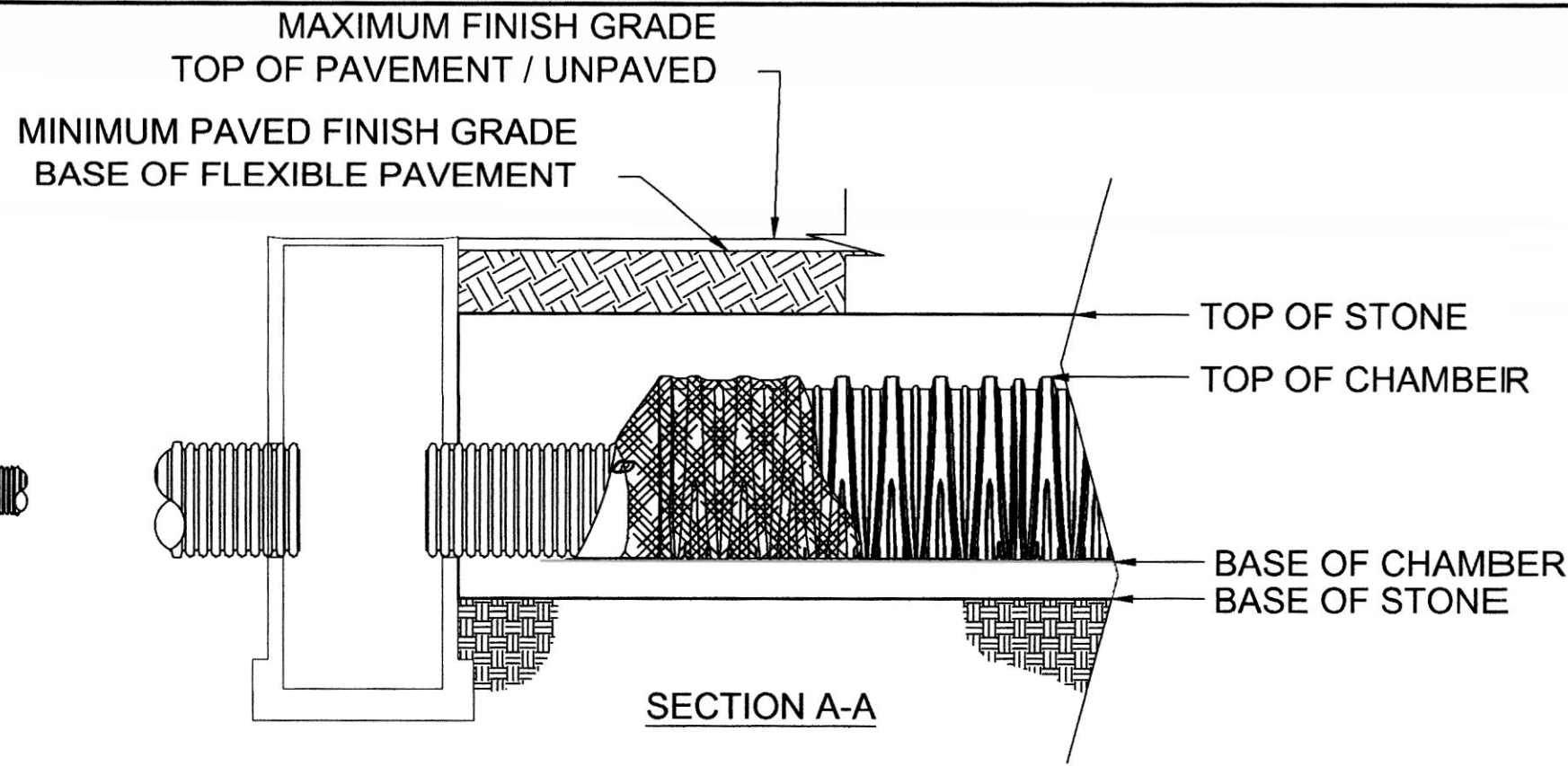
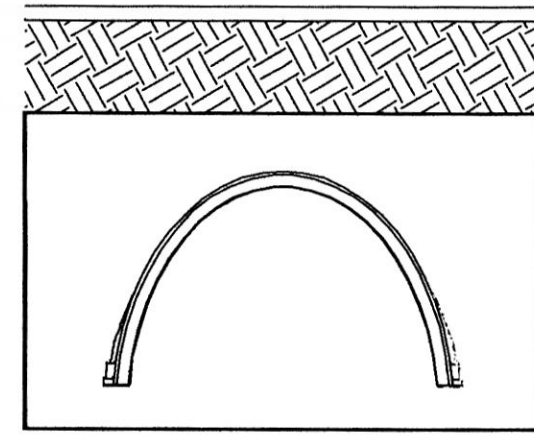


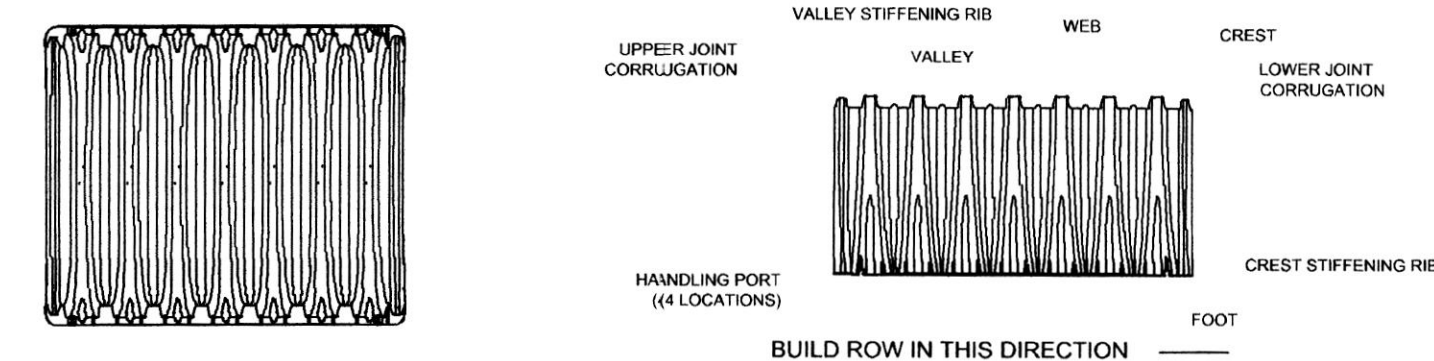
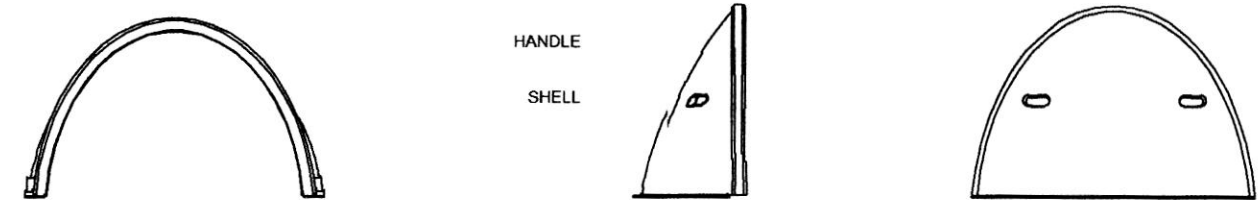
MC-3500 PLAN VIEW



MC-3500 A-A SECTION VIEW



MC-3500 D-D SECTION VIEW



NOMINAL MC-3500 CHAMBER SPECIFICATIONS
SIZE (L x W x H) 90" x 77" x 45"
CHAMBER STORAGE 113.0 ft³
MINIMUM INSTALLED STORAGE 176.8 ft³
WEIGHT 124 lbs.

NOMINAL MC-3500 END CAP SPECIFICATIONS
SIZE (L x W x H) 26.5" x 7" x 45"
ENDCAP STORAGE 15.6 ft³
MINIMUM INSTALLED STORAGE 45.6 ft³
WEIGHT 43 lbs.



STUBS AT BOTTOM OF END CAP FOR PART NUMBERS ENDING WITH "B"
STUBS AT TOP OF END CAP FOR PART NUMBERS ENDING WITH "TN"

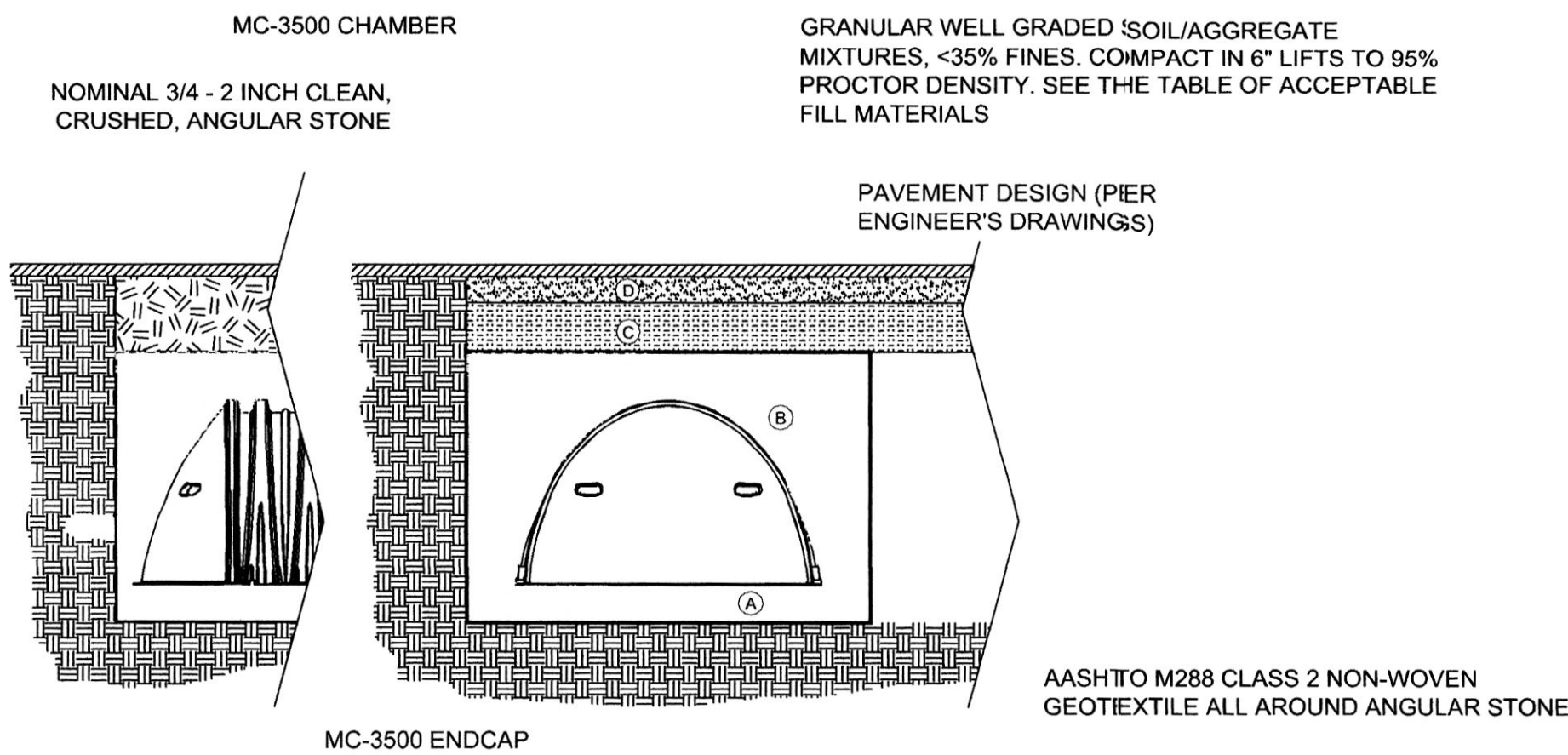
PART#	STUB	A	B	C
MC3500TEPE12T	12"	47.62"	28.36"	N/A
MC3500TEPE12B	12"	49.33"	N/A	1.35"
MC3500TEPE15T	15"	55.25"	23.39"	N/A
MC3500TEPE15B	15"	53.56"	N/A	1.50"
MC3500TEPE18T	18"	61.39"	20.03"	N/A
MC3500TEPE18B	18"	56.77"	N/A	1.77"
MC3500TEPE24B	24"	N/A	2.06"	

NOTE: ALL DIMENSIONS ARE NOMINAL.

STORMTECH INVENTORIED MANIFOLDS AND PRECORDED END CAPS INCLUDE 24" BOTTOM (MC3500TEPE24B), 18" BOTTOM (MC3500TEPE18B) AND 15" TOP (MC3500TEPE15T).
OTHER PIPE SIZES AND PRECORDED END CAPS ARE AVAILABLE UPON SPECIAL ORDER.

MC-3500 TECHNICAL SPEC.

THE INSTALLED CHAMBER SYSTEM SHALL PROVIDE THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS SECTION 12.12 FOR EARTH AND LIVE LOADS, WITH CONSIDERATION FOR IMPACT AND MULTIPLE VEHICLE PRESENCES.



MC-3500 STAND. CROSS SECTION

- ALL DESIGN SPECIFICATIONS FOR STORMTECH MC-3500 CHAMBERS SHALL BE IN ACCORDANCE WITH THE STORMTECH MC-3500 DESIGN MANUAL.
- THE INSTALLATION OF STORMTECH MC-3500 CHAMBERS SHALL BE IN ACCORDANCE WITH THE LATEST STORMTECH MC-3500 INSTALLATION INSTRUCTIONS.
- THE CONTRACTOR IS ADVISED TO REVIEW AND UNDERSTAND THE INSTALLATION INSTRUCTIONS PRIOR TO BEGINNING SYSTEM INSTALLATION. CALL 1-888-892-2694 OR VISIT WWW.STORMTECH.COM TO RECIEVE A COPY OF THE LATEST STORMTECH MC-3500 INSTALLATION INSTRUCTIONS.
- CHAMBERS SHALL MEET THE DESIGN REQUIREMENTS AND LOAD FACTORS SPECIFIED IN SECTION 12.12 OF THE LATEST EDITION OF THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS.

MC-3500 NOTES

ACCEPTABLE FILL MATERIALS: STORMTECH MC-3500 CHAMBER SYSTEMS

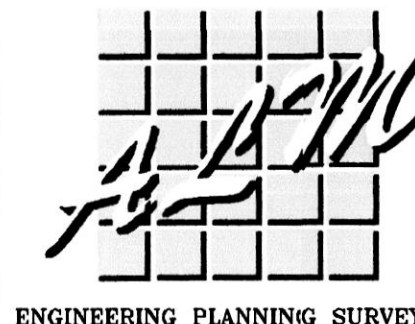
MATERIAL LOCATION	DESCRIPTION	AASHTO M43 DESIGNATION¹	COMPACTION/DENSITY REQUIREMENT
① FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER.	ANY SOIL/ROCK MATERIALS, NATIVE SOILS, OR PER ENGINEER'S PLANS. CHECK PLANS FOR PAVEMENT SUBGRADE REQUIREMENTS.	N/A	PREPARE PER ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.
② FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('B' LAYER) TO 24" ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THIS LAYER.	GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, < 35% FINES. MOST PAVEMENT SUBBASE MATERIALS CAN BE USED IN LIEU OF THIS LAYER.	3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10	BEGIN COMPACTION AFTER 24" OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 6" LIFTS TO A MIN. 95% STANDARD PROCTOR DENSITY.
③ EMBEDMENT STONE SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE TO THE 'C' LAYER ABOVE.	CLEAN, CRUSHED, ANGULAR STONE. NOMINAL SIZE DISTRIBUTION BETWEEN 3/4 - 2 INCH	3, 357, 4, 467, 5, 56, 57	NO COMPACTION REQUIRED.
④ FOUNDATION STONE BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER	CLEAN, CRUSHED, ANGULAR STONE. NOMINAL SIZE DISTRIBUTION BETWEEN 3/4 - 2 INCH	3, 35, 4, 467, 5, 56, 57	PLATE, COMPACT OR ROLL TO ACHIEVE A 95% STANDARD PROCTOR DENSITY¹.

PLEASE NOTE:

1. THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE".

2. AS AN ALTERNATE TO PROCTOR TESTING AND FIELD DENSITY MEASUREMENTS ON OPEN GRADED STONE, STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 9" (MAX) LIFTS USING TWO FULL COVERAGES WITH AN APPROPRIATE COMPACTOR.

ACCEPTABLE FILL MATERIALS



A.L.M. & Associates, Inc
2230 N. University Parkway
Suite 6D
Provo, UT 84604
1-801-374-6262
mgreenwood@almonline.com

Surveyor / Civil Engineer:

Architect / Engineer:

KNELL ARCHITECTS, P.C.
45 EAST 300 NORTH, PROVO, UTAH 84606
PHONE: (800) 375-684 FAX: (800) 377-061

Stamp:



SPANISH FORK 3
PARKING LOT EXPANSION

55 SOUTH 300 EAST
SPANISH FORK, UTAH

Project for:
THE CHURCH OF
JESUS CHRIST
OF LATTER-DAY SAINTS

Project Number:

Plan Series:

Property Number:

Sheet Title:

STORM
TECH
DETAILS

Sheet:

C504