

EASTCOAST TESTING & ENGINEERING, INC.

4100 North Powerline Rd. - Suite G-1
Pompano Beach, Florida 33073

4361 Okeechobee Blvd. - Suite A-5
West Palm Beach, Florida 33409
(954).972.SOIL

Broward (954) 972.7645 (SOIL) - Dade (954) 972.7645

FACSIMILE #954-9718872
ESTABLISHED 1981
ETE@BELLSOUTH.NET

PROCTOR COMPACTION TEST

PERMIT #	N/A		LABORATORY #:	5002077P
CLIENT:	MBR CONSTRUCTION		SABAL PINES PARK @ 5005 NW 39th AVENUE - COCONUT CREEK, FLORIDA	
PROJECT:	5005 NW 39th AVENUE - COCONUT CREEK, FLORIDA			
JOB ADDRESS:	AUGUST 27, 2012			
DATE:	COREY M.		ON: AUGUST 24, 2012	
SAMPLED BY:	C. SMITH		ON: AUGUST 24, 2012	
TESTED BY:	PALE BROWN-BROWN FINE GRAINED QUARTZ SAND			
SAMPLE DESCRIPTION:	PIPE BACKFILL MATERIAL - 18" DRAINAGE			
SAMPLE LOCATION:				

RESULTS OF TEST: THE FOLLOWING PROCTOR TEST WAS PERFORMED IN ACCORDANCE WITH ASTM DESIGNATION D1557 USING A 10 POUND RAMMER AND AN 18 INCH DROP: AASHTO T-180

PERCENT MOISTURE	WET DENSITY - PCF	DRY DENSITY LBS/CUBIC FT
POINT #1 5.6	103.3	97.8220
POINT #2 7.5	107.3	99.8140
POINT #3 9.3	112.1	102.5618
POINT #4 13.3	116.9	103.1774
POINT #5 15.3	116.3	100.8673

MAXIMUM DRY DENSITY PCF:	103.2	SPECIFIC GRAVITY:	N/A
OPTIMUM MOISTURE CONTENT %:	13.3	SOIL CLASSIFICATION:	A-3

NOTES:REMARKS: PIPE BACKFILL MATERIAL - 18" DRAINAGE

RESPECTFULLY SUBMITTED,
EASTCOAST TESTING & ENGINEERING INC.,
CERTIFICATE OF AUTHORIZATION #3425

EL: Pro

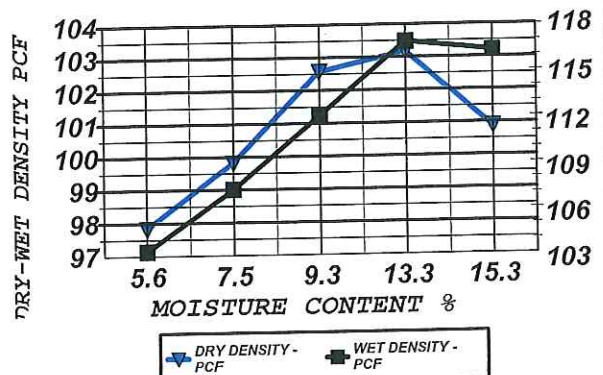
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STATE OF FLORIDA #44316

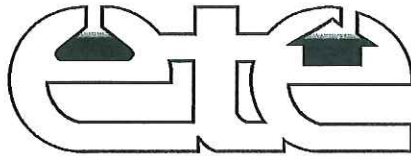
C Smith

CRAIG SMITH, PRESIDENT

PROCTOR ANALYSIS

ASTM DES. D-1557 METHOD C





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PROCTOR COMPACTION TEST

PERMIT # N/A

CLIENT: MBR CONSTRUCTION LABORATORY #: 5002135P
PROJECT: SABAL PINES PARK @ 5005 NW 39th AVENUE - COCONUT CREEK, FLORIDA
JOB ADDRESS: 5005 NW 39th AVENUE - COCONUT CREEK, FLORIDA
DATE: AUGUST 31, 2012
SAMPLED BY: COREY M. ON: AUGUST 30, 2012
TESTED BY: C. SMITH ON: AUGUST 31, 2012
SAMPLE DESCRIPTION: BROWN FINE-MEDIUM GRAINED SAND SOME LIMESTONE FRAGMENTS TRACE SILT
SAMPLE LOCATION: PIPE BACKFILL MATERIAL - 18" DRAINAGE

RESULTS OF TEST: THE FOLLOWING PROCTOR TEST WAS PERFORMED IN ACCORDANCE WITH ASTM DESIGNATION D1557 USING A 10 POUND RAMMER AND AN 18 INCH DROP: AASHTO T-180

	PERCENT MOISTURE	WET DENSITY - PCF	DRY DENSITY LBS/CUBIC FT
POINT #1	5.6	115.6	109.4697
POINT #2	8.3	119.7	110.5263
POINT #3	10.1	123.4	112.0799
POINT #4	11.7	127.0	113.6974
POINT #5	13.9	126.3	110.8867

MAXIMUM DRY DENSITY PCF:	113.7	SPECIFIC GRAVITY:	N/A
OPTIMUM MOISTURE CONTENT %:	11.7	SOIL CLASSIFICATION:	A-3

NOTES:REMARKS: PIPE BACKFILL MATERIAL - 18" DRAINAGE

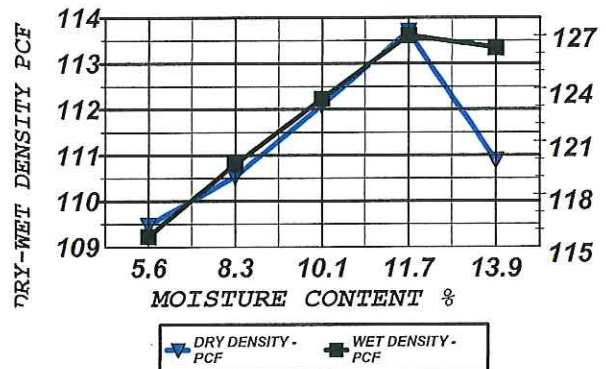
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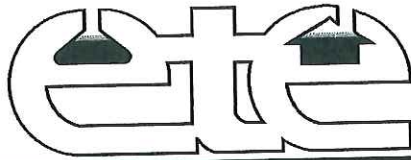
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PROCTOR COMPACTION TEST

PERMIT #	N/A		LABORATORY #:	5002296P
CLIENT:	MBR CONSTRUCTION			
PROJECT:	SABAL PINES PARK @ 5005 NW 39th AVENUE - COCONUT CREEK, FLORIDA			
JOB ADDRESS:	5005 NW 39th AVENUE - COCONUT CREEK, FLORIDA			
DATE:	OCTOBER 02, 2012			
SAMPLED BY:	COREY M.	ON:	OCTOBER 01, 2012	
TESTED BY:	C. SMITH	ON:	OCTOBER 02, 2012	
SAMPLE DESCRIPTION:	PALE BROWN LIMESTONE FRAGMENTS LITTLE FINE-MEDIUM GRAINED SAND			
SAMPLE LOCATION:	BASE COURSE MATERIAL - PARKING LOT			

RESULTS OF TEST: THE FOLLOWING PROCTOR TEST WAS PERFORMED IN ACCORDANCE WITH ASTM DESIGNATION D1557 USING A 10 POUND RAMMER AND AN 18 INCH DROP: AASHTO T-180

POINT #	PERCENT MOISTURE	WET DENSITY - PCF	DRY DENSITY LBS/CUBIC FT
POINT #1	5.3	132.8	126.1159
POINT #2	6.4	136.7	128.4774
POINT #3	7.6	140.9	130.9480
POINT #4	8.5	143.5	132.2581
POINT #5	10.3	142.6	129.2838

MAXIMUM DRY DENSITY PCF:	132.3	SPECIFIC GRAVITY:	N/A
OPTIMUM MOISTURE CONTENT %:	8.5	SOIL CLASSIFICATION:	A-1-a

NOTES:REMARKS: BASE COURSE MATERIAL - PARKING LOT

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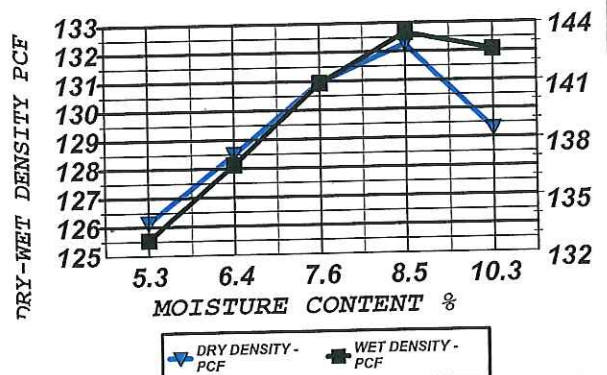
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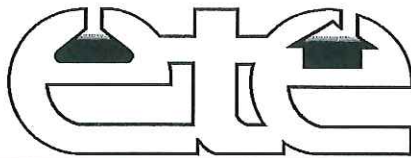
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TEST REPORT OF : LIMEROCK BEARING RATIO/PROCTOR ANALYSIS

LABORATORY#	5002251C	ORDER#	5002251
CLIENT FAX #:	N/A	CLIENT#	
CLIENT:	MBR CONSTRUCTION		
PROJECT:	SABAL PINES PARK - NW 39th AVENUE - COCONUT CREEK, FLORIDA		
FDOT PIT #	N/F		
CONTRACTOR:	MBR CONSTRUCTION		
TEST LOCATIONS:	SAMPLE #1	PROPOSED STABILIZED SUBGRADE MATERIAL PARKING LOT	
SAMPLE DESCRIPTION: GRAY FINE-MEDIUM GRAINED SAND & LIMESTONE FRAGMENTS			
CARBONATE TESTED BY: N/A		ON: N/A	
SAMPLED BY: C. MONTGOMERY		ON: SEPTEMBER 24, 2012	

RESULTS OF TEST

REPORTED TO - 3 - CLIENT ON 10/01/2012

LIMEROCK BEARING RATIO	MAXIMUM DRY DENSITY POUNDS/CU.FT			OPTIMUM MOISTURE%	LBR VALUE-%	PROJECT SPECS
SAMPLE#1	118.0			10.1	56	40 MIN.
SAMPLE#2						
SAMPLE#3						

CALCIUM CARBONATES			
	%SILICA IRON & ALUMINUM OXIDES	%CALCIUM & MAGNESIUM CARBONATES	PROJECT SPECS
SAMPLE#1	N/A	N/A	N/A
SAMPLE#2			
SAMPLE#3			

NOTES/REMARKS:

TEST STANDARDS: FM5-515 FM5-514

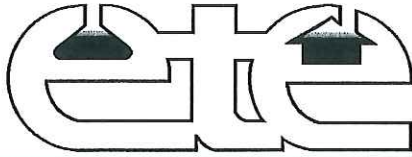
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LIMEROCK BEARING RATIO

CLIENT: MBR CONSTRUCTION

LAB #5002251LB

PAGE #2

TEST LOCATION: SABAL PINES PARK - PROPOSED STABILIZED SUBGRADE MATERIAL - PARKING LOT

PIT#: N/A SAMPLE DESCRIPTION: GRAY FINE-MEDIUM GRAINED SAND & LIMESTONE FRAGMENTS

SAMPLE DATE: SEPTEMBER 24, 2012 BY: C.M.

DATE COMPACTED: SEPTEMBER 26, 2012 BY: C. SMITH

DATE TESTED: SEPTEMBER 28, 2012 CO3 TESTED: N/A

PENETRATION INCHES	POINT #1		POINT #2		POINT #3	
	TOTAL LOAD LBS	PSI	TOTAL LOAD LBS	PSI	TOTAL LOAD LBS	PSI
0	15	5.0	15	5.0	15	5.0
0.010	34	11.3	43	14.3	28	9.3
0.020	73	24.3	73	24.3	62	20.7
0.030	113	37.7	124	41.3	97	32.3
0.040	163	54.3	200	66.7	150	50.0
0.050	240	80.0	295	98.3	211	70.3
0.060	341	113.7	448	149.3	306	102.0
0.070	440	146.7	572	190.7	400	133.3
0.080	550	183.3	709	236.3	492	164.0
0.090	669	223.0	859	286.3	593	197.7
0.100	785	261.7	1004	334.7	690	230.0
0.110	897	299.0	1144	381.3	785	261.7
0.120	998	332.7	1267	422.3	870	290.0
0.130	1095	365.0	1391	463.7	948	316.0
0.140	1176	392.0	1491	497.0	1013	337.7
0.150	1249	416.3	1583	527.7	1074	358.0
0.160	1304	434.7	1660	553.3	1120	373.3
0.170	1357	452.3	1728	576.0	1165	388.3
0.180	1389	463.0	1768	589.3	1186	395.3
0.190	1399	466.3	1790	596.7	1195	398.3
0.200	1411	470.3	1805	601.7	1205	401.7
0.225						
0.250						
0.274						
0.300						

MOISTURE	
PERCENT	
POINT #1	8.6
POINT #2	10.1
POINT #3	12.1
POINT #4	

DRY DENSITY	
PCF	
	114.9
	118.0
	116.3

LBR	
PERCENT	
	46
	56
	39

LIQUID LIMIT:	NP
PLASTIC LIMIT:	NP
PLASTICITY INDEX:	NP



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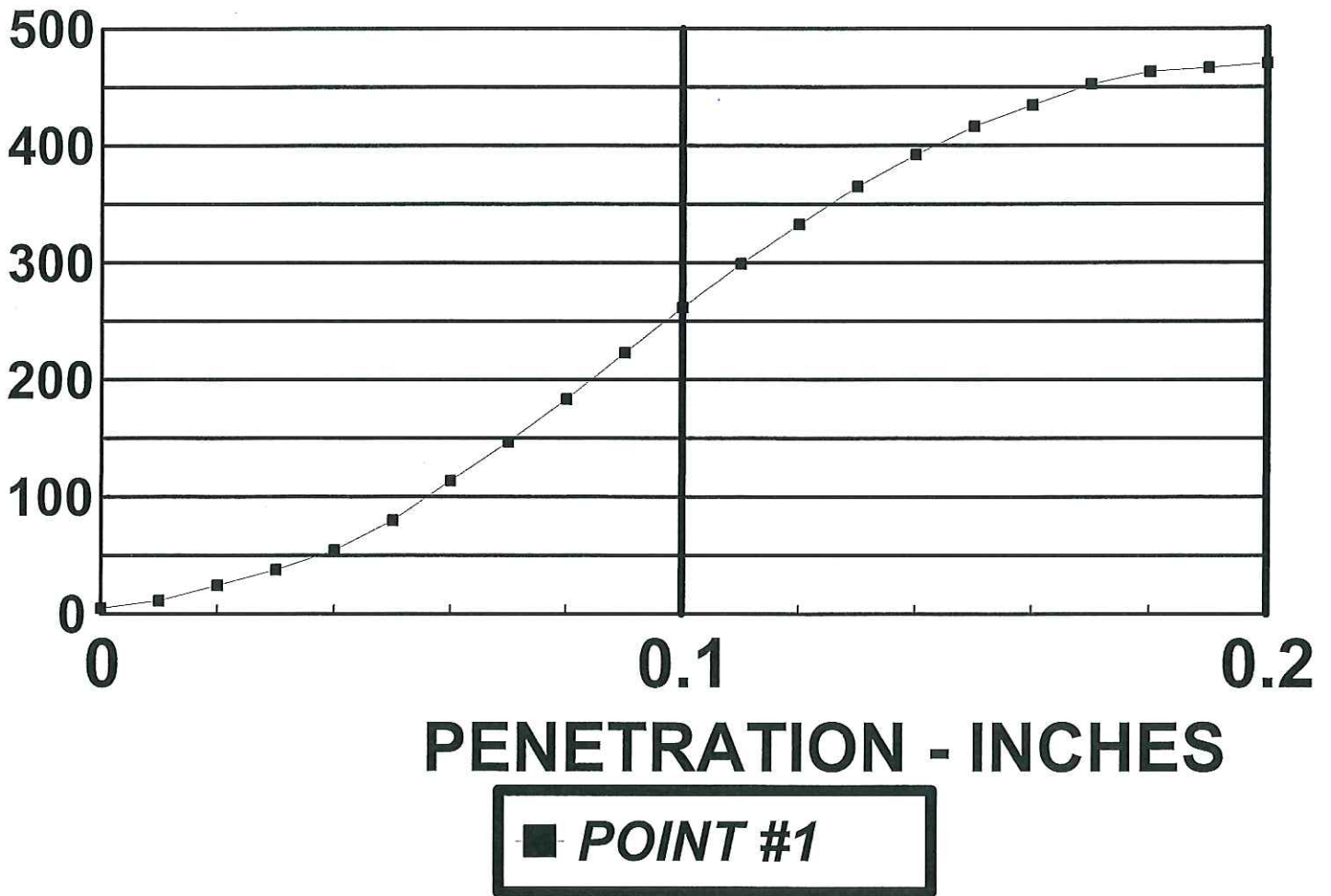
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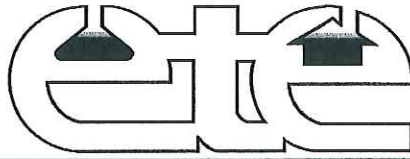
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LIMEROCK BEARING RATIO - MBR CONSTRUCTION





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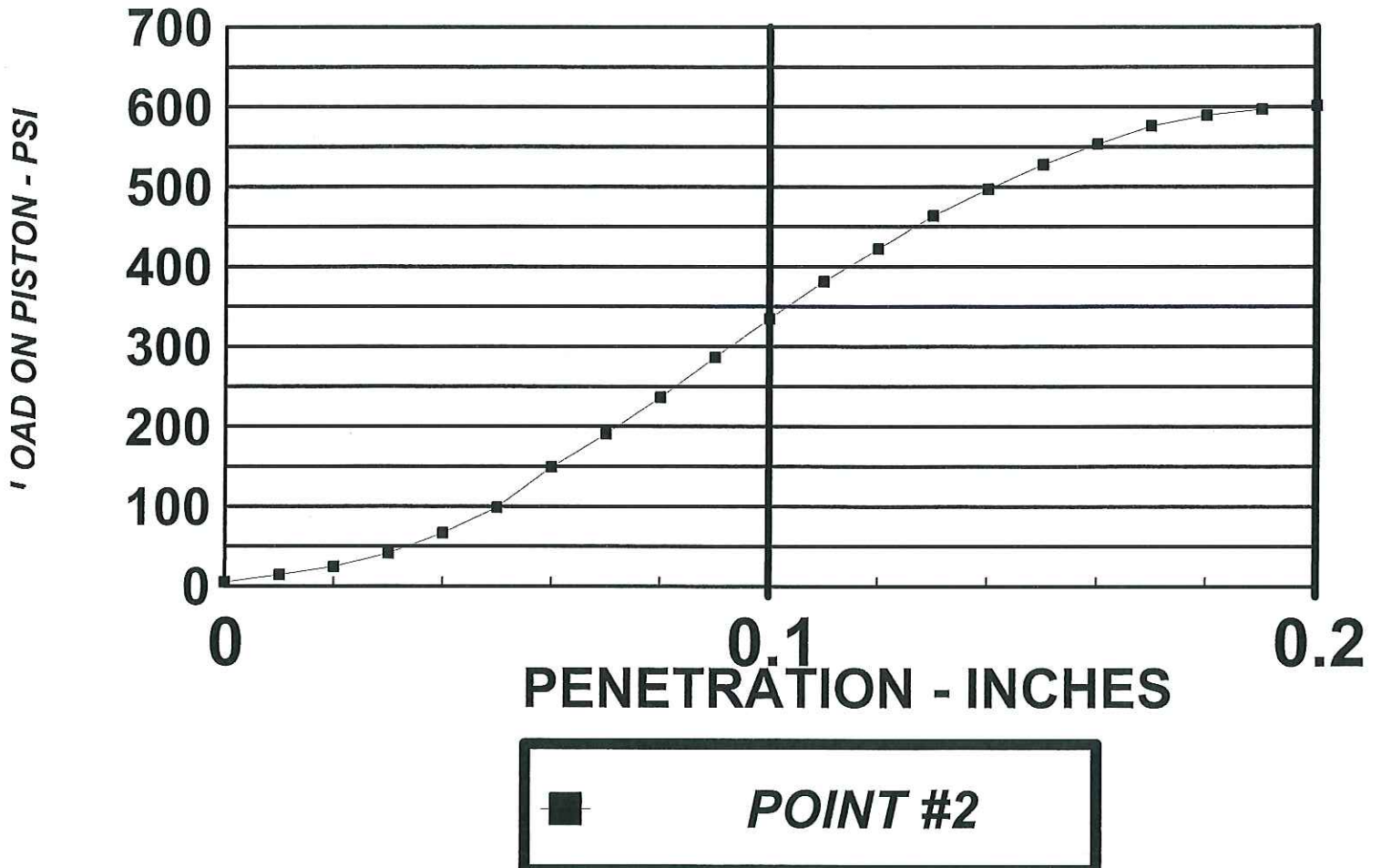
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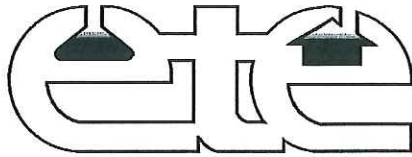
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IMEROCK BEARING RATIO - MBR CONSTRUCTION





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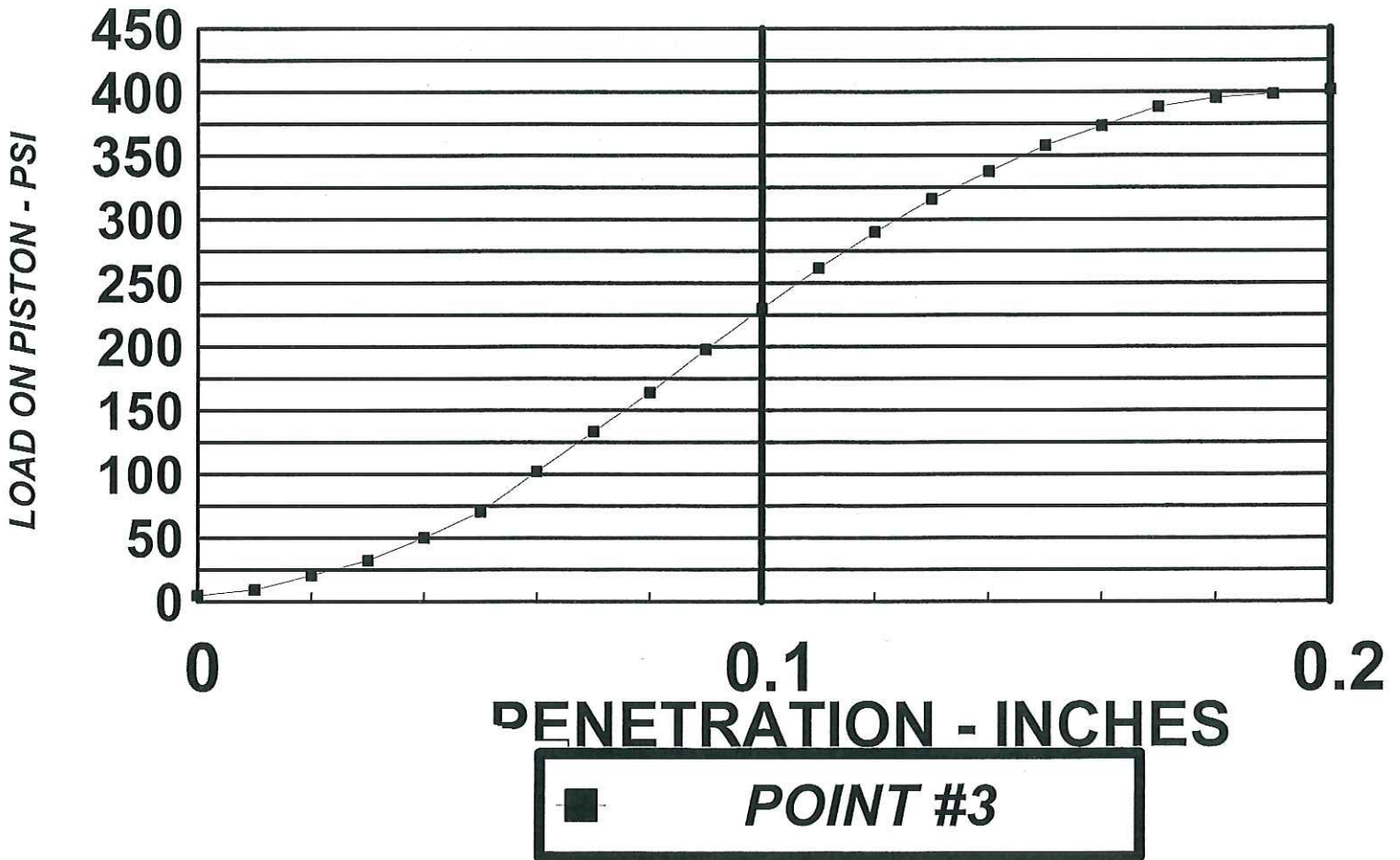
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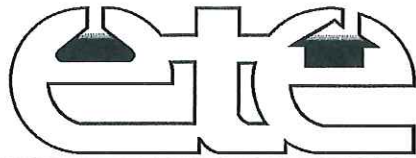
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**IMEROCK BEARING RATIO - T-180/AASHTO
MBR CONSTRUCTION - ORDER #5002251**

