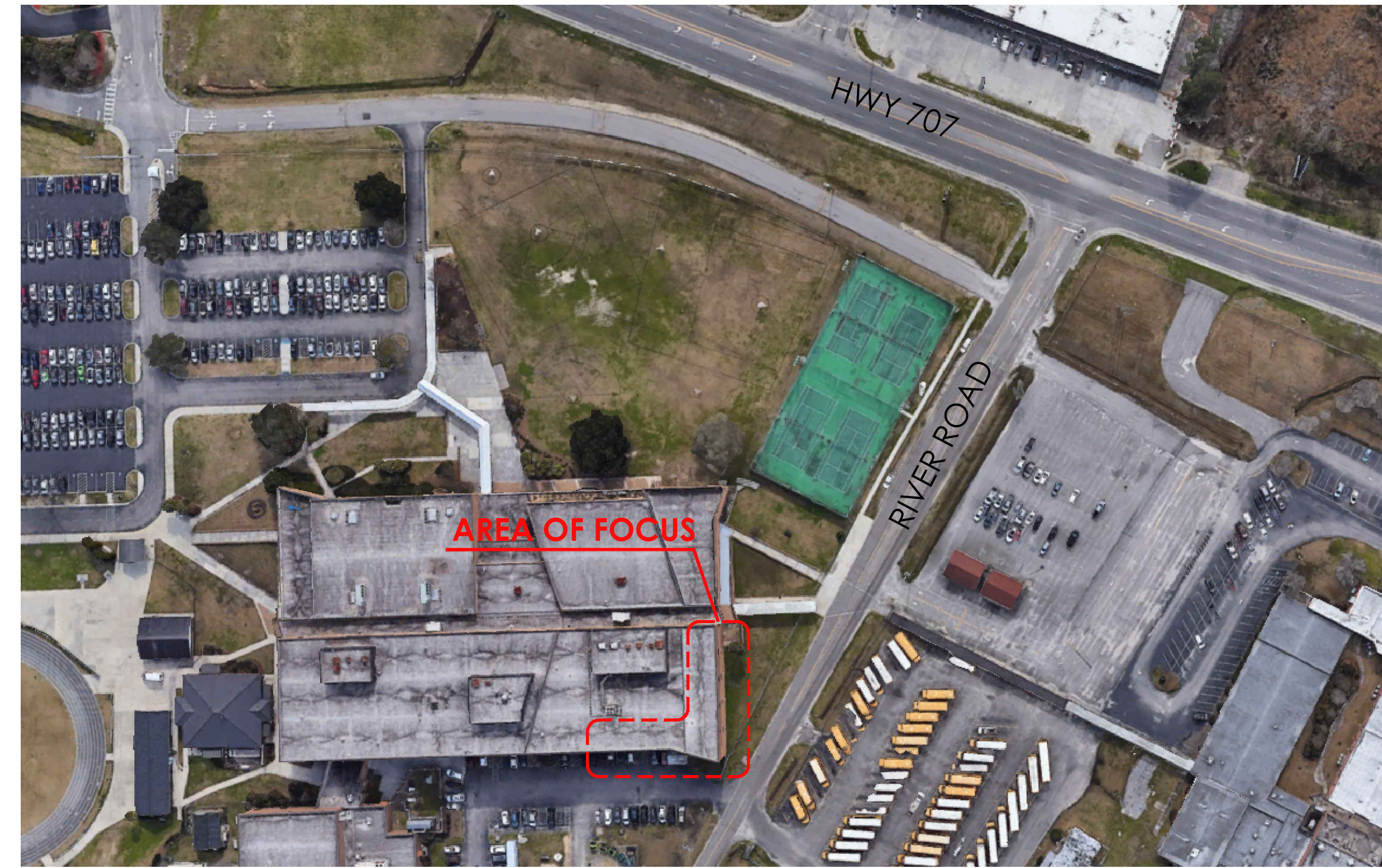


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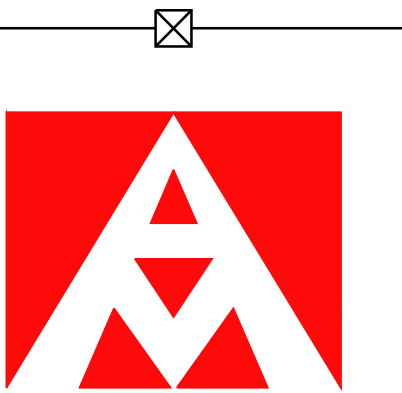
SOCASTEE HIGH SCHOOL ARIEL VIEW

N.T.S.



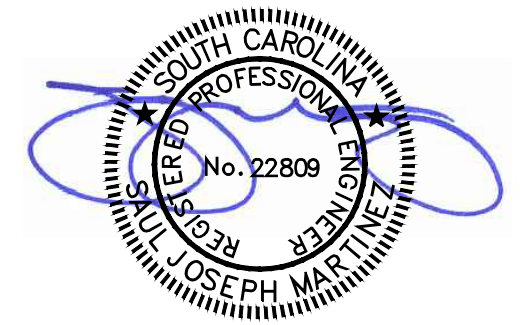
SOCASTEE HIGH SCHOOL ELEVATION VIEW

N.T.S.



MARTINEZ & ASSOCIATES
STRUCTURAL ENGINEERS, P.A.
PHONE: 843 839 1620
FAX: 843 839 1623
1107 48TH AVENUE 310C
MYRTLE BEACH, SC

. A WALL REPAIR .
. SOCASTEE HIGH SCHOOL .
. 4900 SOCASTEE BLVD .
. MYRTLE BEACH, SOUTH CAROLINA .



JOB NUMBER:
21-223

OWNER:

DRAWN BY:
B.HOLMES

CHECKED BY:
S. MARTINEZ

UNIT DESCRIPTION

DRAWING DESCRIPTION:
PROJECT REPAIR
LOCATIONS/ELEVATION

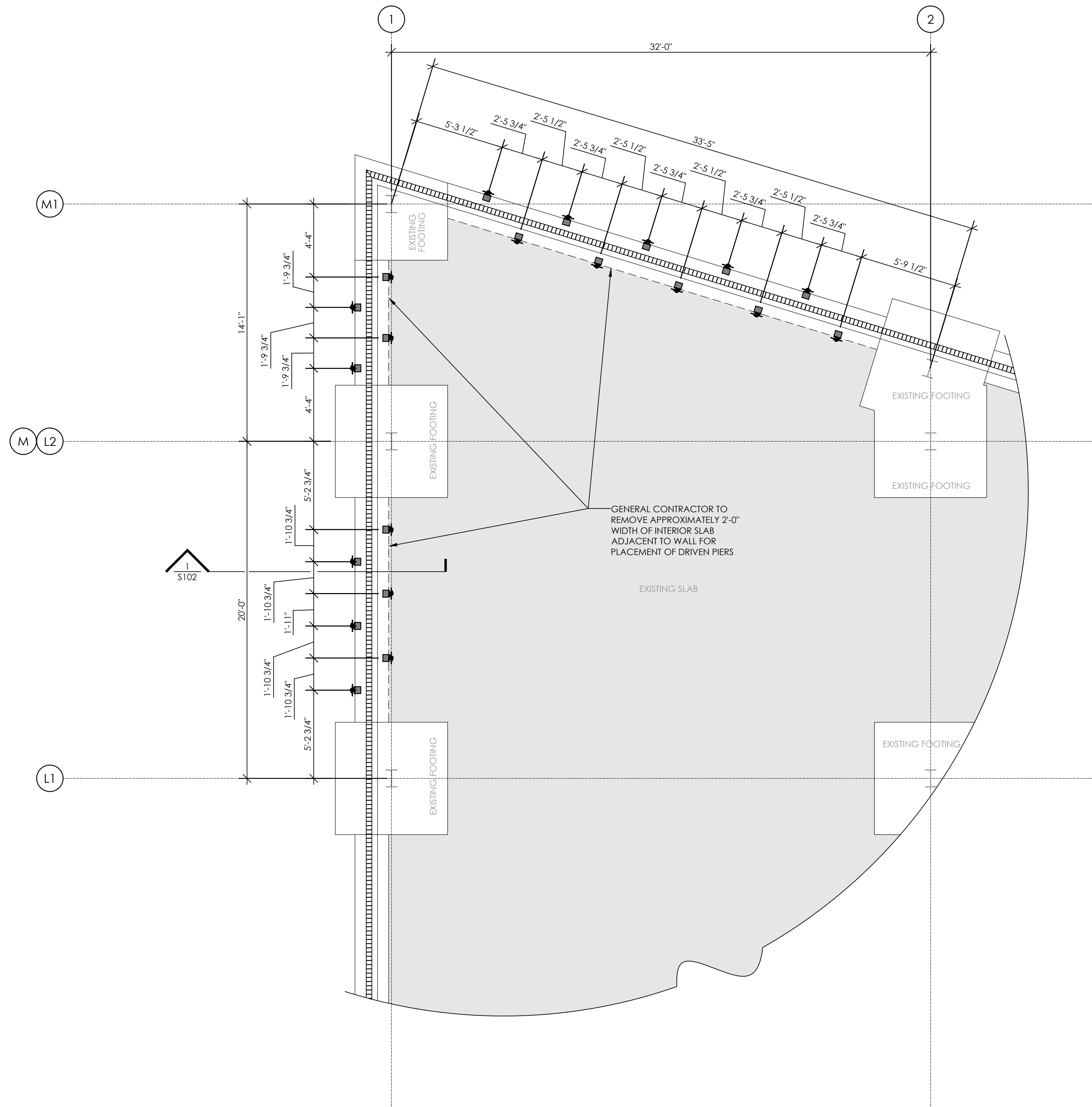
DRAWING SCALE:
N.T.S.

CURRENT DRAWING ISSUE:
CONSTRUCTION SET

S100

MAY 5, 2021

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LEGEND

— INDICATES NEW 2-7/8" PUSH-DRIVEN PIER W/ STANDARD FOUNDATION BRACKET SEE SHEET S110 FOR PIER ADDITIONAL SPECIFICATIONS

MATERIAL LOAD CAPACITY	
4021 Commercial Bracket	80 kips ultimate
2 7/8" Push Pier	70 kips ultimate
4061 Fold-Up Slab Bracket	20 kips capacity
4065 Beam Bracket	10 kips
4550 2.375 2 3/8" Wall Tie-Back	42 kips capacity
2 3/8" Helical Piers	3000 ft-lbs max torque
	30 kips max capacity
	12 kips normal use
	42 kips tension
2 7/8" Helical Piers	5500 ft-lbs max torque
	80 kips max capacity
	30 kips normal use
	64 kips tension



. A WALL REPAIR .
 . SOCASTEE HIGH SCHOOL .
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21-223

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S. MARTINEZ

UNIT DESCRIPTION

STRIP EXISTING FLOOR TILES AS NEEDED AND PROTECT REMAINING

PIER PLACEMENT DIMENSIONS MAY BE ADJUSTED UP TO 20%
 FURTHER PIER IMPLEMENTATION MAY BE REQUIRED.
 PIERS IMPLEMENTED NOT INTENDED TO PROVIDE ANCHORAGE FOR UPLIFT. PIERS IMPLEMENTED TO LEVEL FLOOR ONLY.
 PIERS IMPLEMENTED NOT INTENDED TO SUPPORT OVERHANGING BRICK VENEER.

IT IS THE INTENT OF THESE DOCUMENTS TO PROVIDE DIRECTION ON THE IMPLEMENTATION OF HELICAL PIERS FOR THE CORRECTION OF FOUNDATION SETTLEMENT (NOT DUE TO SINK HOLE ACTIVITY) OR DEFICIENT STRUCTURAL FRAMING. STRUCTURAL FOUNDATION SETTLEMENT FOUND TO BE WITHIN THE AREA OF SINK HOLE ACTIVITY MUST BE FURTHER EVALUATED VIA THIRD PARTY GEOTECHNICAL ENGINEER.

DRAWING DESCRIPTION:
PUSH PIER LAYOUT

DRAWING SCALE:
1/4" = 1'-0"

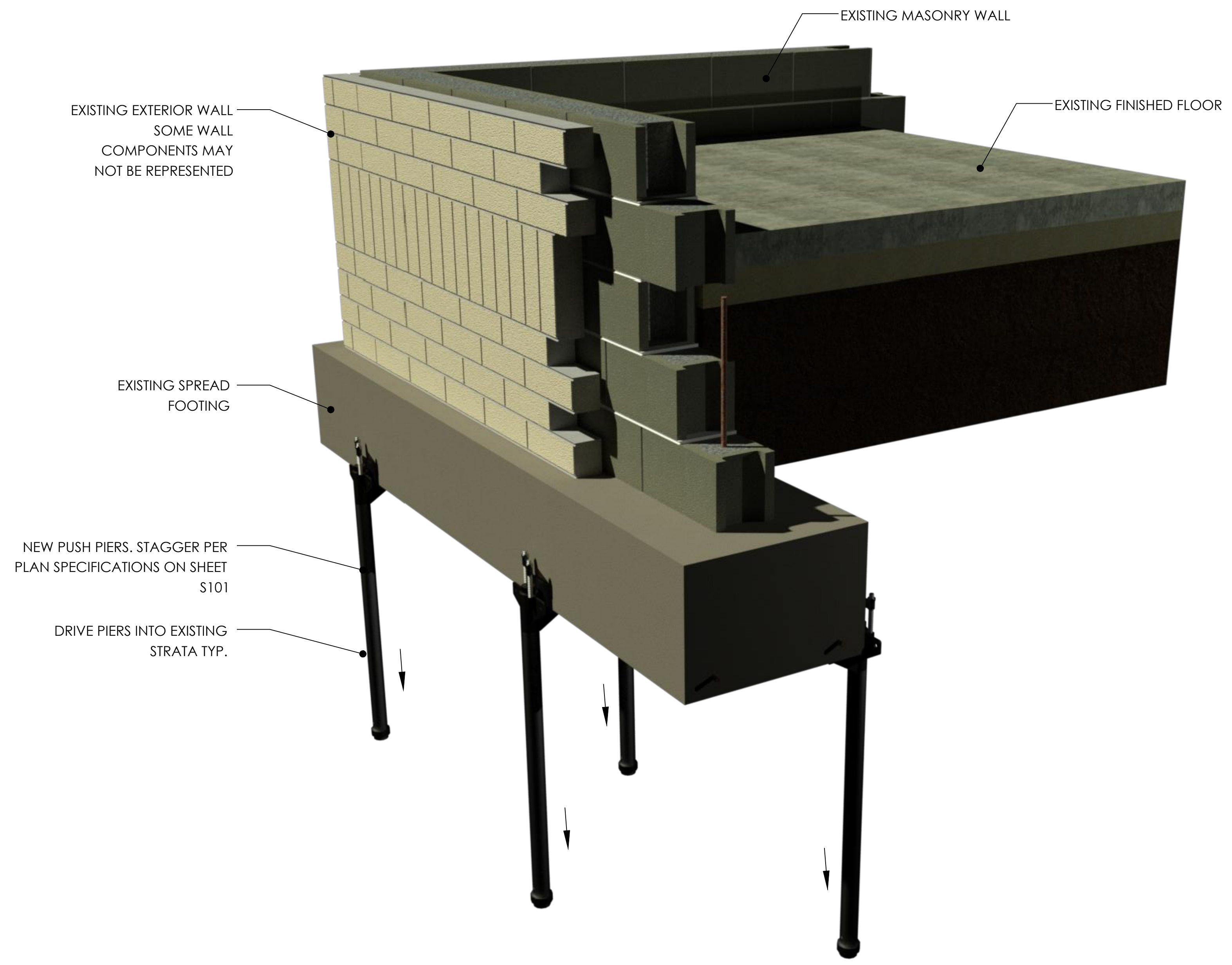
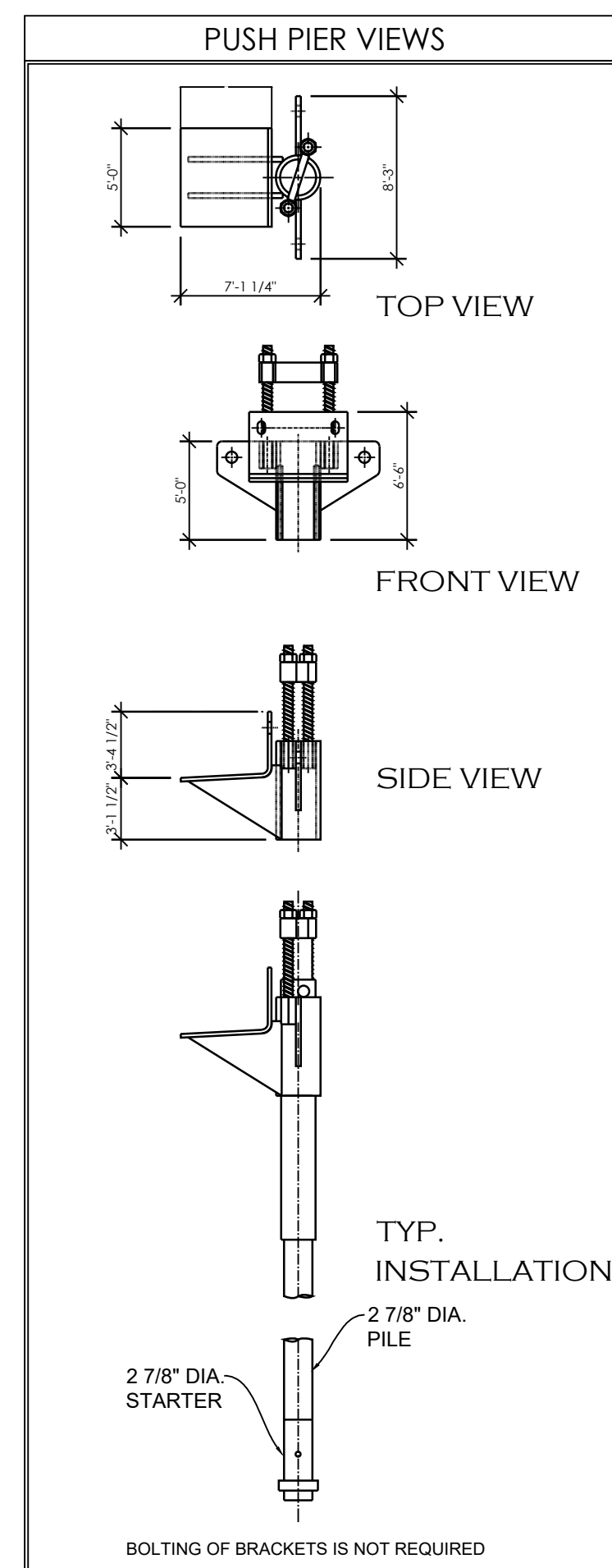
CURRENT DRAWING ISSUE:
CONSTRUCTION SET

S101
MAY 5, 2021

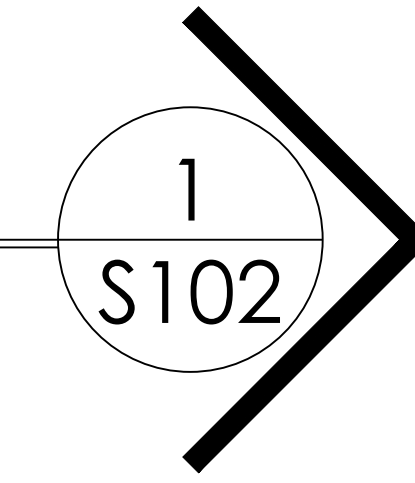
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RAM JACK DRIVEN PILE LOAD CONVERSION SHEET (Hydraulic Pressure vs. Load)

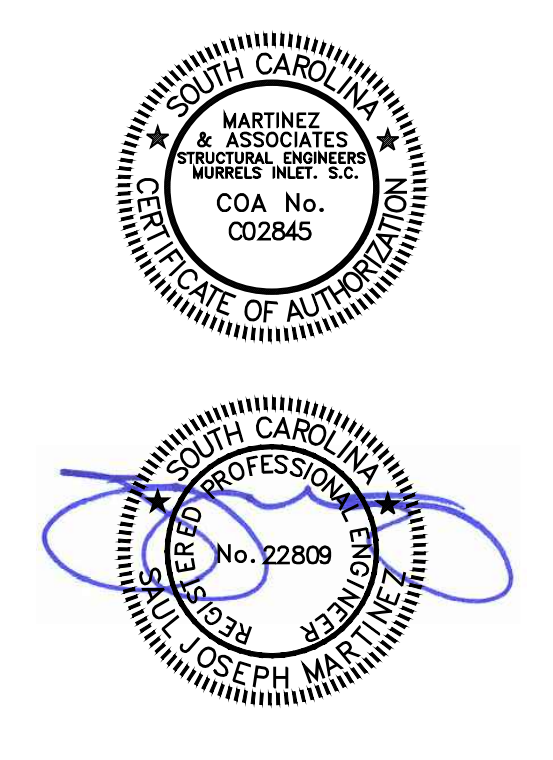
*PSI	Load (lbs)	*Working Area X PSI = Load (lbs.)	*PSI	Load (lbs)
500	8,130	**Maximum working pressure is 4000 PSI. Cylinder bursting pressure is 5000 PSI.	500	10,160
1000	16,260		1000	20,320
1500	24,390		1500	30,480
2000	32,520		2000	40,640
2500	40,650		2500	50,800
3000	48,780	*** When retracting cylinders you must subtract the rod area from the bore area to find the working area.	3000	60,960
3500	56,910		3500	71,120
4000	65,040		4000	81,280



SECTION PUSH PIER PLACEMENT CONCEPTUAL



A WALL REPAIR.
SOCASTEE HIGH SCHOOL
4900 SOCASTEE BLVD.
MYRTLE BEACH, SOUTH CAROLINA.



JOB NUMBER:
21-223

OWNER:

DRAWN BY:
B.HOLMES

CHECKED BY:
S. MARTINEZ

UNIT DESCRIPTION

DRAWING DESCRIPTION:
PROJECT REPAIR
DETAILS

DRAWING SCALE:
N.T.S.

CURRENT DRAWING ISSUE:
CONSTRUCTION SET

S102

MAY 5, 2021