

SECTION 6-A SCREENING WALLS

CITY OF SACHSE, TEXAS
DEPARTMENT OF ENGINEERING

STANDARD CONSTRUCTION DETAILS
MISCELLANEOUS DETAILS

SCREENING WALLS

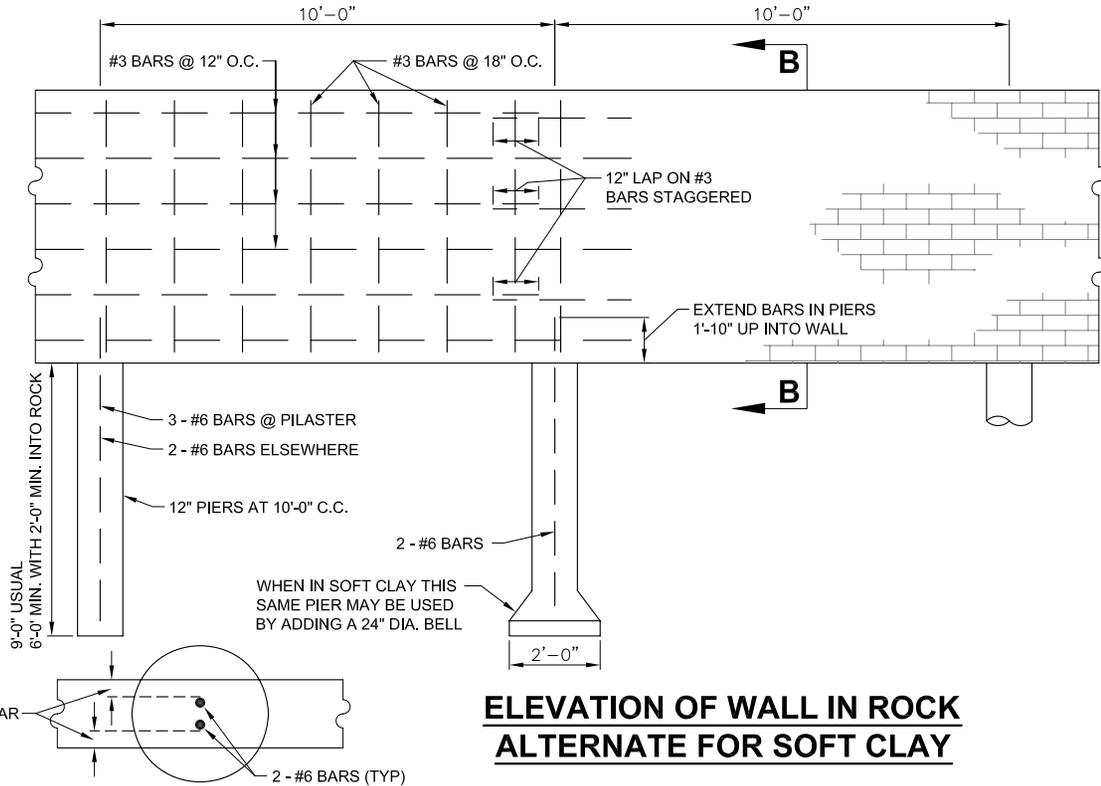
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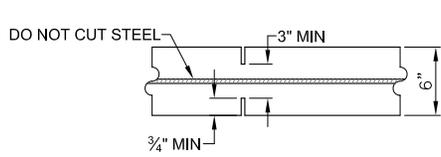
GENERAL NOTES - CONCRETE FENCES

- 1 CONCRETE - NORMAL WEIGHT, 3000 P.S.I. AT 28 DAYS.
- 2 REINFORCEMENT - ASTM A 615 - GR.60
- 3 MASONRY - COMPRESSIVE STRENGTH OF 2000 P.S.I., $f_m = 900$ P.S.I.
- 4 WIND LOAD - 20 P.S.F.
- 5 PIER BEARING STRESSES - SEE BRICK SCREENING WALL NOTES.
- 6 MORTAR - TYPE S, 1800 P.S.I.
- 7 PROVIDE CONTROL JOINTS AT 50 FT.
- 8 PROVIDE EXPANSION JOINTS AT 200 FT. ON CENTER MAXIMUM.
- 9 WHERE THERE IS NO ALLEY PVMT., PROVIDE MIN. 9 FT. USUAL LENGTH PIER 6 FT. MIN. WITH 2 FT. MIN. INTO ROCK. THIS APPLIES TO BOTH REINFORCED CONCRETE SCREENING WALL AND BRICK SCREENING WALL.
- 10 ALL EXPOSED CONCRETE SHALL HAVE FINISHED SURFACE.
- 11 EXPANSION JOINT MATERIAL SHALL BE CELLU-JOINT OR EQUAL.
12. CONTRACTOR SHALL PROVIDE A FINAL SURVEY TO THE CITY OF SACHSE SHOWING THE WALL LOCATION RELATIVE TO THE WALL EASEMENT AND PUBLIC RIGHT-OF-WAY PRIOR TO CITY ACCEPTANCE.
13. ALTERNATE SCREEN WALL DESIGNS SHALL MEET OR EXCEED CITY OF SACHSE STANDARDS. ALL ALTERNATE DESIGNS REQUIRE SPECIAL REVIEW AND APPROVAL BY THE CITY OF SACHSE.
14. ALL PIERS SHALL BE INSPECTED BY THE CITY OF SACHSE FOR PROPER DEPTH AND CONSTRUCTION PRIOR TO CONSTRUCTION OF THE WALL.

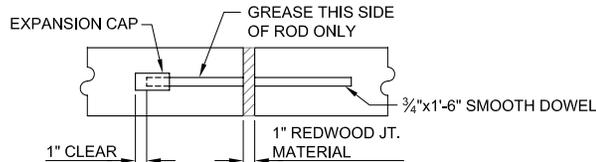


**ELEVATION OF WALL IN ROCK
ALTERNATE FOR SOFT CLAY**

COLUMN SECTION



**CONTRACTION JT
EVERY 20'-0"**



**EXPANSION JT
EVERY 200'-0"**
CENTER OVER PIER

REINFORCED CONCRETE SCREENING WALL

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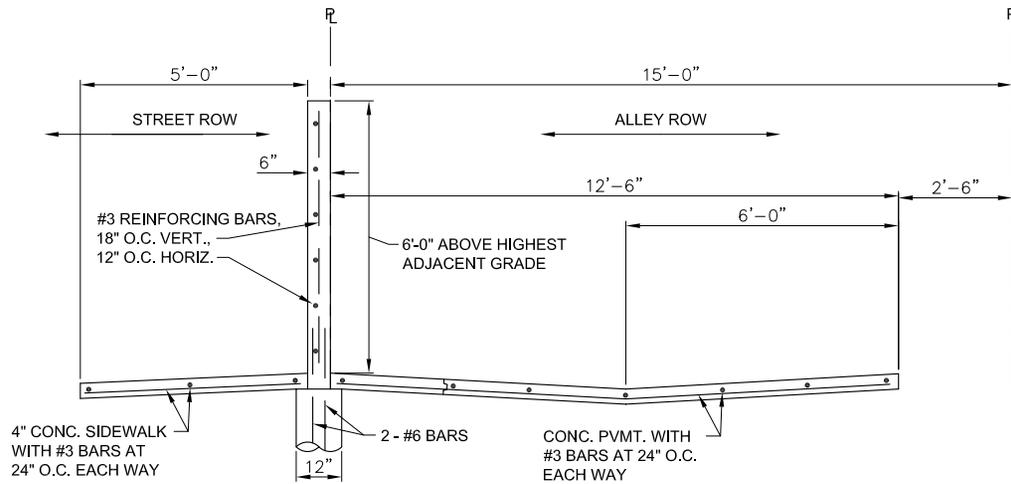
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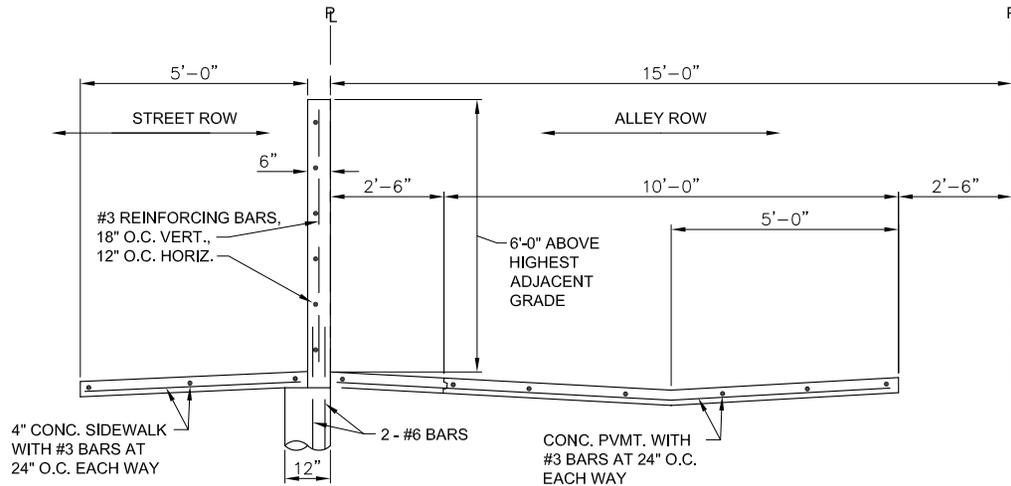
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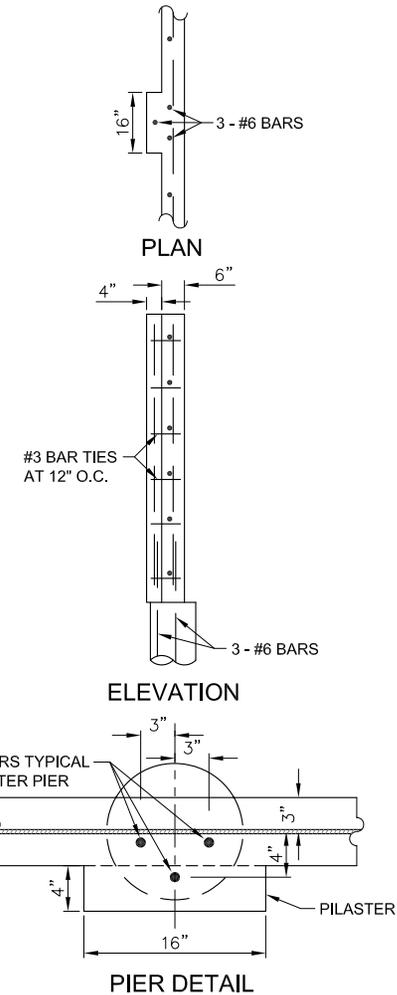
SECTION B-B, SEE SPECIAL DETAIL



SECTION B-B, ALTERNATE

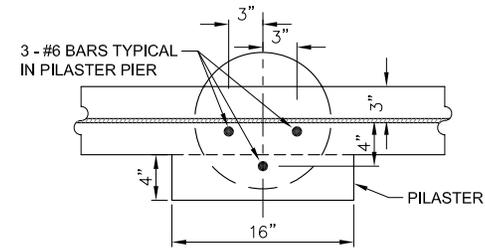
- NOTE: PIERS REQUIRE
- 1 BLOCK-OUT OF ALLEY PAVING
 - 2 POUR BEFORE ALLEY PAVING
- OR
- 3 SAW CUT AFTER ALLEY PAVING UNLESS CONSTRUCTED PER SECTION B-B

REINFORCED CONCRETE SCREENING WALL



PIER DETAIL

PILASTERS EVERY 40'-0"



PIER DETAIL

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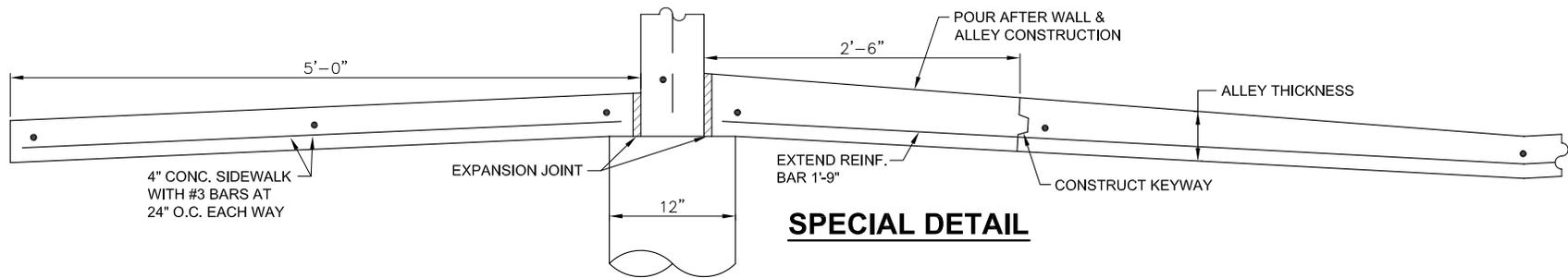
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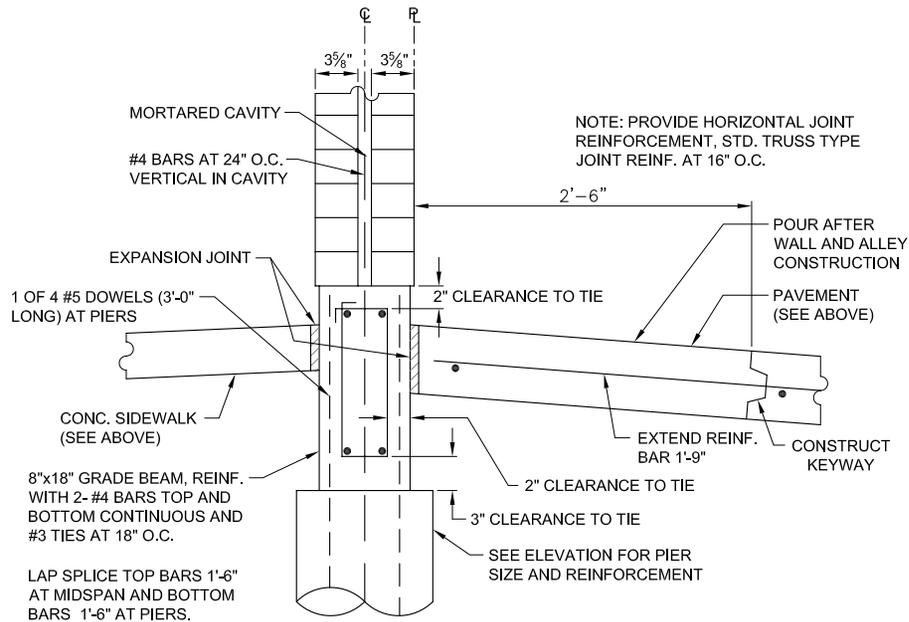
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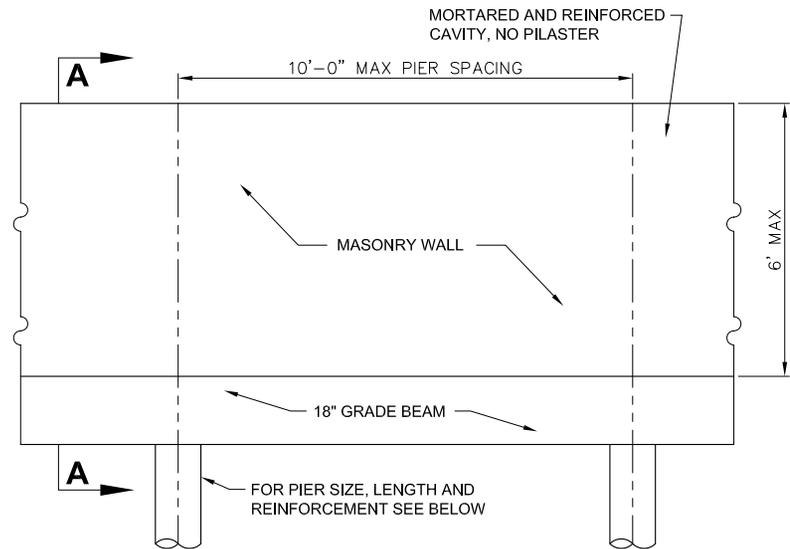
SPECIAL DETAIL

REINFORCED CONCRETE SCREENING WALL



SECTION A-A

BRICK SCREENING WALL



ELEVATION

DRILLED PIERS - 12" DIAMETER WITH 4 - #4 RODS VERTICAL AND #4 ROD TIES AT 24" O.C. MINIMUM LENGTH OF PIER IS 6'-0". PIER BOTTOM MAY BE EITHER OF THE TWO ALTERNATES:

- 1 12" DIAMETER STRAIGHT SHAFT EMBEDDED A MINIMUM OF 2'-0" INTO ROCK. RESULTING BEARING STRESS IS 8.0 KIPS PER SQUARE FOOT.
- 2 12" DIAMETER SHAFT WITH A 24" DIAMETER BELL IN CLAY. RESULTING BEARING STRESS IS 2.0 KIPS PER SQUARE FOOT.

* SEE GENERAL NOTE NO. 9

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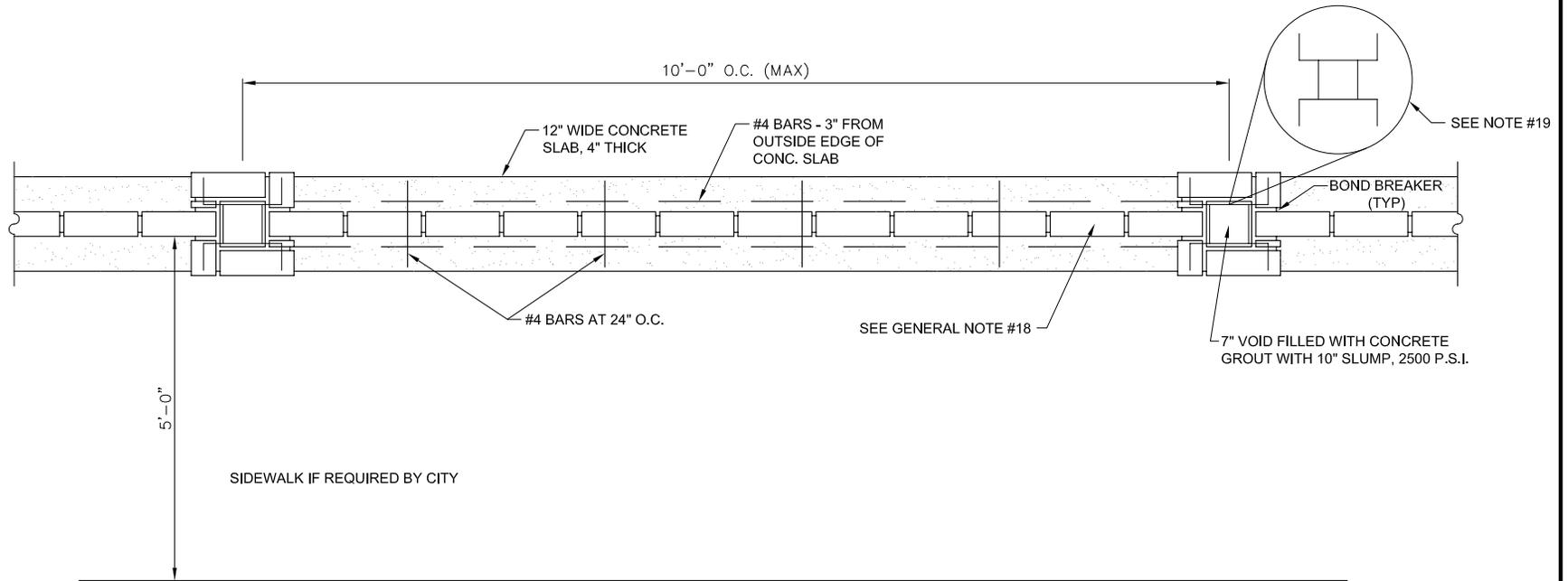
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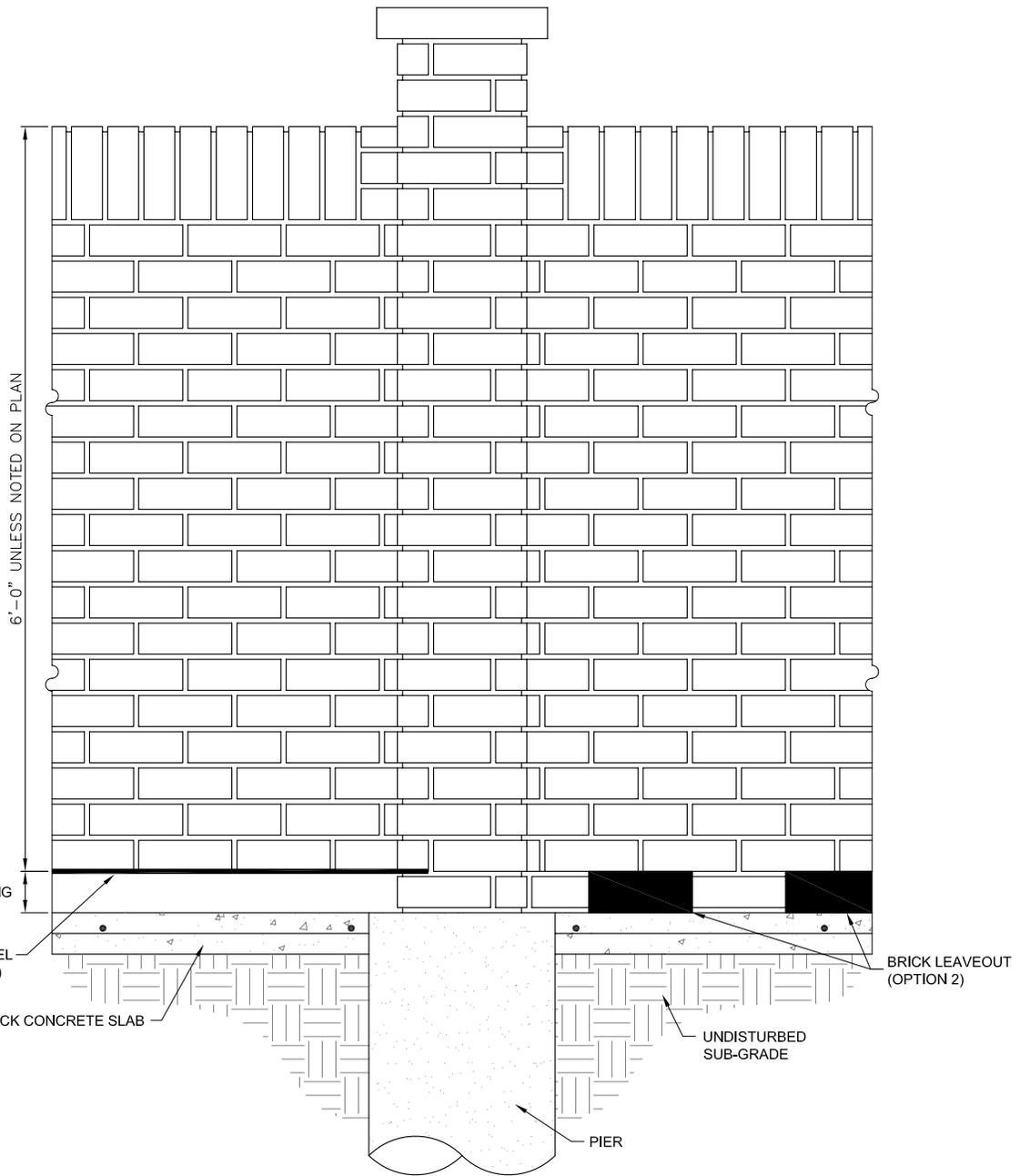


TYPICAL WALL & COLUMN LAYOUT PLAN

GENERAL NOTES - BRICK FENCES

- 12 CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4000 P.S.I. AT 28 DAYS.
- 13 REINFORCING STEEL SHALL BE NEW BILLET CONFORMING TO THE REQUIREMENTS OF ASTM A 615 - GR.60.
- 14 CONCRETE FOR DRILLED PIERS SHALL BE PLACED WITHIN 8 HOURS OF DRILLING PIER HOLES.
- 15 BRICK MASONRY SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 5000 P.S.I. WITHOUT INSPECTION AND 3000 P.S.I. WITH INSPECTION.
- 16 MORTAR SHALL BE TYPE S.
- 17 CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE RECOMMENDED PRACTICE FOR ENGINEERED BRICK MASONRY - BRICK INSTITUTE OF AMERICA.
- 18 USE #9 GAUGE 1 3/4" WIDE GALVANIZED LADUR WIRE TO EXTEND HORIZONTAL IN WALL PANEL (DUR-O-WALL CORP) EVERY COURSE.
- 19 USE #9 GAUGE WIRE FABRICATED AS SHOWN BETWEEN EACH COURSE OF COLUMN BRICK.
- 20 THE DESIGN FOR THE FOUNDATION SUPPORTING PIERS SHALL TAKE INTO CONSIDERATION THE EXISTING SOIL STRUCTURE AND SUPPORTING BEARING STRENGTH.
- 21 CLEAN BOTTOM OF HOLE PRIOR TO PLACEMENT OF CONCRETE
- 22 DESIGN WIND PRESSURE - 20 P.S.F.
- 23 MAXIMUM PILASTER SPACING - 10'-0"
- 24 MAXIMUM HEIGHT OF WALL - 6'-0"
- 25 EXTEND REBAR 48" INTO PILASTER.

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