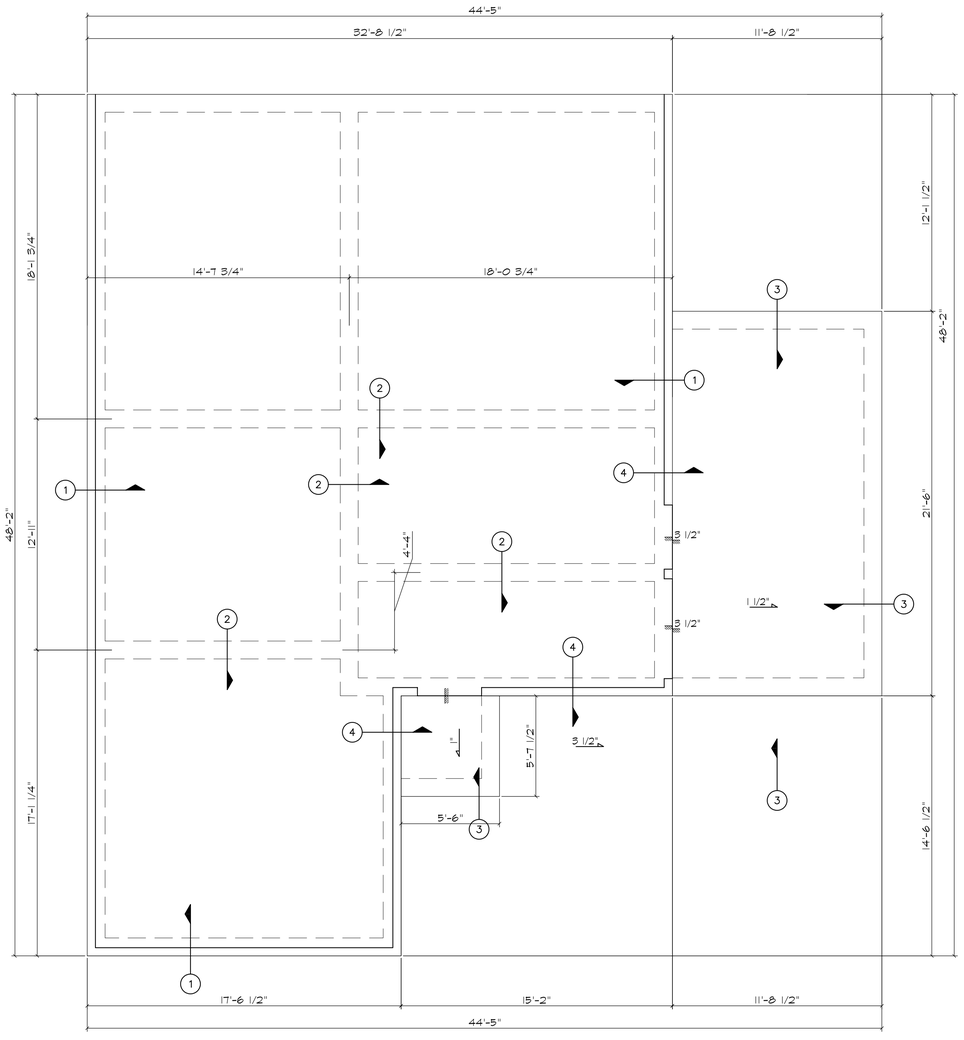



## FOUNDATION PLAN - BUILDING "A" ACCESSIBLE

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

## GENERAL NOTES:

### 1. GENERAL:

A. All post-tensioning work shall be accomplished under the immediate control of a design engineer experienced in this type of work. Close supervision and rigid control of all operations are necessary for full compliance with these specifications.

B. Contractor shall coordinate the foundation drawings with architectural and mechanical drawings for slab thickness, insert openings, etc. and shall verify all dimensions before beginning work. The Contractor shall advise the Engineer of any discrepancies, unusual soil conditions or any other factors which may affect the foundation prior to the placement of concrete.

C. Tendons, anchors and all accessories shall be installed in accordance with requirements and recommendations of the post-tensioned material supplier.

D. Strand wrap which is damaged may be repaired by taping. Where wrap is missing or six-inches (6") exposed strand is permitted adjacent to anchors.

E. Concrete grade beams shall extend into undisturbed soil or into controlled fill compacted to 95% maximum density.

F. Fill material in excess of ten-inches (10") under foundations shall be placed in accordance with H.U.D. Data Sheet 79 G or as per Soil Engineer's recommendations. In lieu of the fill as per Data Sheet 79 G, the Contractor may use twelve-inch (12") round drilled footings under the grade beams, spaced at ten-feet (10') o.c. (maximum) and extended twelve-inches (12") into undisturbed soil.

G. Finish floor elevation of all slabs shall be a minimum of twelve-inches (12") above the highest adjacent street centerline elevation.

H. A minimum of twelve-inches (12") of select fill material shall be placed under all residential foundations. Select fill material shall be AASHO classification A-4 or better. Fill shall be placed in accordance with paragraph 1-F above.

I. The contractor shall provide shop drawings produced by design engineer, experienced in this type of work, for approval by the architect, prior to foundation installation.

### 2. CONCRETE:

A. All concrete shall attain a minimum ultimate compressive strength of 3,000 PSI @ 28 days curing as determined be ASTM Test C78-64.

B. Concrete mix design shall be in accordance with ACI specifications 318 latest revision.

C. Slump shall not exceed four-inches (5") and vibration is required during placement, particularly in the vicinity of tendons, tendon anchors and at the corner of the foundation.

D. In addition to the minimum 12" of select fill material, a four-inch (4") layer of sand or granular material shall be placed under the slab.

E. All exposed subgrade and fill beneath the concrete slab and beams shall be covered with 10 mil visqueen or other polyethylene waterproof membrane.

F. Construction joints shall not be used in the slab or beams unless indicated on the drawings or specifically approved by the Engineer prior to placement of concrete.

G. Calcium chloride or other additives shall not be used unless approved by the Engineer.

### 3. POST-TENSIONING STEEL AND ANCHORAGES:

A. Strands shall be one-half inch (1/2") diameter uncoated, stress-relieved, seven wire strand, having a minimum ultimate tensile strength of 270,000 psi and shall conform to ASTM A415.

B. Strands shall be coated with a low friction, corrosion resistant material and shall be wrapped in plastic sheathing to prevent contact between the concrete and the strand.

C. Post-tensioning materials and anchorages shall conform to the requirements of the "PCI Guide Specifications for Post Tensioning Materials".

D. Looping of tendons to form dead end anchorages is not permitted.

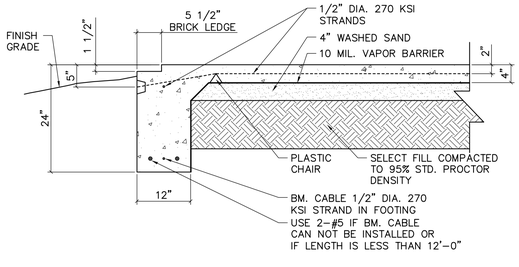
### 4. STRESSING:

A. Tendons shall be located as shown on the detailed construction drawings and shall be supported in the slab by appropriate chairs at a minimum of every tendon intersection with maximum distance of 4.5 feet between chair supports for 1/2-inch tendons.

B. Perpendicular tendons shall be connected with two-inch (2") "S" hook and chairs to support the tendons as shown on the details.

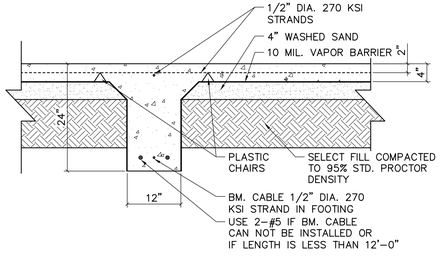
C. Tendons shall be placed straight and true as per the plans and a light pretensioned force shall be applied to the tendons prior to the placement of concrete. Horizontal displacement of strands allowed to maximum of 12" in 5'-0". Vertical displacement should be 1" maximum.

D. After the slab has cured for five (5) days, a stressing force of 33,999 pounds shall be applied to each 1/2-inch strand (ultimate yield strength 270 ksi) with an anchor force after losses of 29,000 pounds.



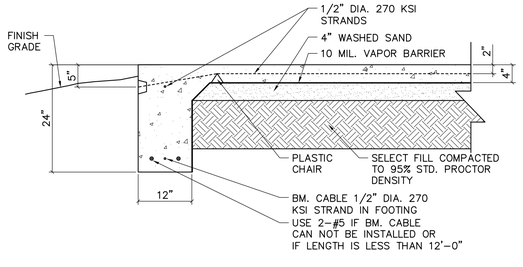

1-TYP. EXTERIOR BEAM

SCALE: 3/4"=1'-0"



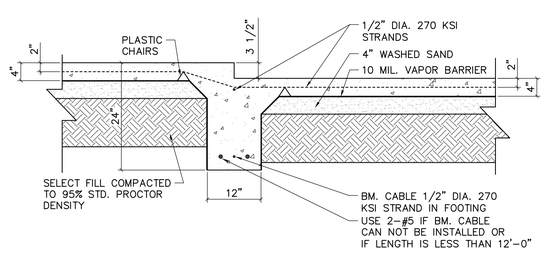

2-TYP. INTERIOR BEAM

SCALE: 3/4"=1'-0"




3-TYP. PORCH BEAM

SCALE: 3/4"=1'-0"




4 TYP. RECESSED SLAB

SCALE: 3/4"=1'-0"

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PROJECT: A NEW HOUSING DEVELOPMENT

# BRIARWOOD ESTATES

A KWL PROPERTIES, LLC DEVELPMENT

BASTROP, LOUISIANA

DRAWING REVISIONS

| DATE | DESCRIPTION |
|---|---|
| 7/5/18 | REV. - FINAL PLANS |

Drawn By: CDW

Checked By: TB

SHEET

# F1.01 PA-HC

Date: JUNE 2016

Project No.: 16-0052

File No.:

DESCRIPTION:

FOUNDATION PLAN & DETAILS BUILDING TYPE A ACCESSIBLE

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