

Order Plans

GEOTECHNICAL:

1. THE CONTRACTOR SHALL FOLLOW ALL RECOMMENDATIONS INDICATED IN THE GEOTECHNICAL REPORT, WHICH SHALL BE CONSIDERED AN INTEGRAL PART OF THESE CONTRACT DOCUMENTS. REFERENCE IS MADE TO THE GEOTECHNICAL REPORT BY TERRACON, PROJECT NO. ER176056, DATED FEBRUARY 9, 2018.

2. A GEOTECHNICAL ENGINEER AND/OR TESTING LABORATORY SHALL BE RETAINED FOR THE PURPOSES OF ASSURING ADEQUATE SOIL SUPPORT FOR FOUNDATION AND SLABS-ON-GRADE (INCLUDING EXTERIOR CONCRETE PADS). A COPY OF ALL TEST REPORTS SHALL REMAIN ON FILE AT THE JOB SITE AVAILABLE FOR THE DESIGN TEAM. ANY TESTS DEEMED UNACCEPTABLE SHALL BE COPIED AND SENT TO THE ARCHITECT AND STRUCTURAL ENGINEER. THE CONTRACTOR SHALL FORWARD COPIES OF ALL REPORTS TO THE OWNER AS REQUIRED BY THEIR AGREEMENT.

3. ANY ELEVATIONS INDICATED ON THE FOUNDATION PLANS TYPICALLY REFER TO TOP OF FOOTING. ALL FOOTINGS SHALL EXTEND BELOW FROST DEPTH AND DOWN TO SOLID BEARING MATERIAL REGARDLESS OF ELEVATIONS SHOWN. SEE GEOTECHNICAL REQUIREMENTS BY GEOTECHNICAL ENGINEER AS NEEDED FOR PROPER COMPACTION AND PREPARATION OF SOILS.

4. TOP OF ALL SPREAD FOOTINGS SHALL BE A MINIMUM OF 8" BELOW FINISHED GRADE UNLESS NOTED OTHERWISE (UNO).

5. CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL EXCAVATIONS AND SLOPES.

6. THE CONTRACTOR SHALL MAKE ADEQUATE PROVISIONS FOR DIVERTING/PUMPING ALL FORMS OF WATER FROM THE WORKING AREA OF THE SITE DEPENDING ON THE SITE LOCATION AND UNDERLYING SOILS. SITE WATER MAY INCLUDE OFF-SITE DRAINAGE, RAINWATER, STORM WATER, GROUND WATER, SPRINGS AND INFRASTRUCTURE. DEWATERING THE SITE AND FOUNDATION EXCAVATIONS IS CONSIDERED PART OF THE SLAB AND FOUNDATION PREPARATION FOR THE PROJECT. REFER TO GEOTECHNICAL AND SITE ENGINEER AS NECESSARY IF ADDITIONAL INFORMATION IS REQUIRED.

7. THE SIDES OF FOUNDATION CONCRETE (FOOTINGS, PILE CAPS, CAISSON CAPS, ETC.) MAY BE EARTH FORMED PROVIDED THE EXCAVATION CAN BE SAFELY KEPT VERTICAL, CLEAN AND STABLE, OTHERWISE, FORMS MUST BE USED. REFER TO GEOTECHNICAL ENGINEER FOR ADDITIONAL INFORMATION AS REQUIRED.

8. WEATHERLY ENGINEERING ARE NOT RESPONSIBLE FOR TRASH, DEBRIS, SOFT AREAS FOR ANY OTHER ANOMALY WHICH MAY BE FOUND UNDER THE BUILDING SITE WHETHER PLACED THERE OR NATURALLY OCCURRING.

CONCRETE:

1. ALL CONCRETE AND REINFORCING BARS SHALL BE INSTALLED ACCORDING TO STANDARDS SET FORTH BY THE LATEST EDITION OF ACI-318.

2. REINFORCEMENT SHALL BE HELD IN PLACE DURING CONCRETE PLACEMENT. IF REQUIRED, ADDITIONAL BARS MAY BE PROVIDED BY THE CONTRACTOR TO FURNISH SUPPORT FOR ALL BARS.

3. 28 DAY MINIMUM CONCRETE COMPRESSIVE STRENGTH SHALL BE AS FOLLOWS:

FOOTINGS	3000 PSI
SLABS ON GRADE	3000 PSI
STEPS ON GRADE	3500 PSI
ALL OTHER CONCRETE	3500 PSI

NO CALCIUM CHLORIDE SHALL BE USED IN MIX.

4. THE CONTRACTOR SHALL TAKE ADDITIONAL PRECAUTIONS WHEN CONCRETE IS TO BE PLACED AND CURED DURING COLD OR HOT WEATHER. THE CONTRACTOR SHALL FOLLOW THE RECOMMENDATIONS PRESCRIBED BY AMERICAN CONCRETE INSTITUTE FOR COLD OR HOT WEATHER CONSTRUCTION.

5. NO ADDITIONAL WATER SHALL BE ADDED TO THE CONCRETE ABOVE THAT PRESCRIBED IN THE MIX DESIGN UNLESS APPROVED BY THE ARCHITECT OR STRUCTURAL ENGINEER.

6. THE CONTRACTOR SHALL TAKE ADDITIONAL PRECAUTIONS WHEN CONCRETE IS TO BE PLACED AND CURED DURING COLD OR HOT WEATHER. THE CONTRACTOR SHALL FOLLOW THE RECOMMENDATIONS PRESCRIBED BY AMERICAN CONCRETE INSTITUTE FOR COLD OR HOT WEATHER CONSTRUCTION.

7. THE CONTRACTOR SHALL TAKE ADDITIONAL PRECAUTIONS WHEN CONCRETE IS TO BE PLACED AND CURED DURING COLD OR HOT WEATHER. THE CONTRACTOR SHALL FOLLOW THE RECOMMENDATIONS PRESCRIBED BY AMERICAN CONCRETE INSTITUTE FOR COLD OR HOT WEATHER CONSTRUCTION.

8. ALL PLUMBING SLOTS SHALL BE FILLED WITH CONCRETE TO THE SAME DEPTH AS THE FLOOR SLAB AFTER PIPING IS INSTALLED.

9. EXTERIOR CONCRETE PADS SHALL BE SIZED AND LOCATED PER THE CONTRACT DOCUMENTS AND EQUIPMENT SPECIFICATIONS. PLEASE SEE DRAWINGS BY ARCHITECT AND/OR MECHANICAL/ELECTRICAL ENGINEERS IN ADDITION TO THE STRUCTURAL AND ARCHITECTURAL DRAWINGS.

10. THE GENERAL CONTRACTOR SHALL SUBMIT REBAR SHOP DRAWINGS SHOWING NUMBER, SIZE AND LOCATION, INCLUDING BAR LISTS AND DIAGRAMS, TO THE ARCHITECT FOR APPROVAL.

11. REBAR DOWELS SHALL MATCH VERTICAL REINFORCING (UNO).

12. SEE ARCHITECTURAL DRAWINGS FOR REQUIRED CONCRETE FINISH COLOR, SPECIAL FLATNESS REQUIREMENTS, ETC. ALL CONCRETE SHALL BE PROPERLY CURED IMMEDIATELY AFTER FINISHING.

13. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR THE PROPER DESIGN OF ALL TEMPORARY FRAMEWORK, FORMS AND SHORING.

14. A QUALIFIED TESTING LABORATORY SHALL BE RETAINED TO CONDUCT CYLINDERS AND PERFORM THE NECESSARY CONCRETE TESTS. A MINIMUM OF FOUR CYLINDERS SHALL BE TAKEN FOR EVERY 100 CUBIC YARDS (OR FRACTION THEREOF) OF EACH CONCRETE TYPE/STRENGTH SUPPLIED. THE CONCRETE CYLINDERS SHALL BE TAKEN AFTER WATER AND ADMIXTURES (IF ANY) ARE ADDED TO THE MIX. IT IS RECOMMENDED THAT ONE CYLINDER SHALL BE TESTED AT 7 DAYS, THAT 28 DAY AND HOLD 100% CYLINDER IN RESERVE. IT IS RECOMMENDED THAT TEST REPORTS SHALL BE SENT DIRECTLY TO THE GENERAL CONTRACTOR, ARCHITECT AND STRUCTURAL ENGINEER. ANY CYLINDER BREAKS (INCLUDING 7 AND 14 DAY BREAKS) SHALL BE PLACED AND REPORTED TO THE ATTENTION OF THE APPROPRIATE DESIGN PROFESSIONAL.

15. REPAIR AND PATCH DEFECTIVE AREAS IMMEDIATELY AFTER REMOVAL OF FORMS.

16. AT APPLICATION OF NEW CONCRETE TO BE PLACED ON EXISTING CONCRETE, THE EXISTING CONCRETE SHALL BE PROPERLY ROUGHENED WITH HIGH STRENGTH BONDING AGENT APPLIED PRIOR TO PLACING NEW CONCRETE. THE SURFACE PREPARATION AND BONDING AGENTS IN ADDITION TO THE ANY DOWELS AS SPECIFIED IN THE DETAILS.

17. ALL SLAB ON GROUND SHALL BE REINFORCED WITH W6X-W14 X W14 WWF ON PROPERLY PREPARED BASE MATERIAL WITH VAPOR BARRIER. THE CONTRACTOR SHALL VERIFY FLOOR LOADS WITH OWNER AND EQUIPMENT SUPPLIERS, ETC. PRIOR TO BASE AND SLAB PLACEMENT. IN THESE AREAS WITH FLOOR LOADINGS UP TO 100 PSF, SLAB THICKNESS SHOULD BE INCREASED IN THE EVENT THERE IS A NEED FOR HEAVIER FLOOR LOADINGS. CONTRACTOR SHALL VERIFY FLOOR LOADS WITH OWNER AND EQUIPMENT SUPPLIERS, ETC. PRIOR TO BASE AND SLAB PLACEMENT. IN THESE AREAS MINIMUM SLAB THICKNESS:

18. THE CONTRACTOR, CONCRETE SUPPLIERS AND ALL RELATED SUBCONTRACTORS SHALL BE EXPERIENCED IN THE USE OF CONCRETE ADMIXTURES, SEALERS, CURING COMPOUNDS, ETC. AS SPECIFIED IN THE CONTRACT DOCUMENTS OR IN THE CONCRETE MIX.

19. UNLESS SPECIFIED OTHERWISE, THE CONTRACTOR SHALL SPACE SLAB JOINTS NOT EXCEED 36 TIMES THE SLAB THICKNESS PER ACI (AMERICAN CONCRETE INSTITUTE). THE WIDTH TO LENGTH OF JOINTED SECTIONS SHALL NOT EXCEED THE RATIO OF 1 TO 1-1/2.

20. ALL ANCHOR BOLTS SHALL EXTEND TO BOTTOM OF FOOTING - THE CONTRACTOR SHALL PROVIDE 3 INCHES OF CONCRETE COVER DEPENDING ON THE METHOD OF CONSTRUCTION AND FIELD CONDITIONS. THE CONTRACTOR MAY BE REQUIRED TO INSTALL LEVELING NUTS AND NON-SHRINK GROUT AS NEEDED TO PROVIDE ADEQUATE CONTACT BELOW ALL STEEL COLUMN BASE PLATES.

MASONRY:

1. THE MASONRY DIMENSIONS ON THIS PROJECT ARE CONSIDERED AS NOMINAL DIMENSIONS. THE SHAPE AND ACTUAL SIZE OF THE MASONRY UNITS SHALL BE CONSIDERED IN THE BUILDING AND WALL LAYOUT PLAN.

2. FOR ALL BEAM/JOIST GIRDERS BEARING INTO (ONTO) MASONRY WALLS, THE CONTRACTOR SHALL FILL ALL MASONRY CELLS BELOW THE BEARING CONDITION (BEARING PLATES AND CAST-IN-PLACE PILLOW BEAMS) WITH 2500 PSI GROUT. A #6 BAR SHALL BE PLACED IN EACH OF THESE CELLS DOWN TO THE FOUNDATION (OR FLOOR LINE FOR ELEVATED SLABS).

3. ALL LINTEL BEAMS TO BEAR A MINIMUM OF 16" ON EACH SIDE OF ALL OPENINGS GREATER THAN ONE FOOT IN WIDTH. ALL CELLS UNDER BEARING CONDITION SHALL BE REINFORCED WITH WALL REBAR IN EACH CELL. BARS SHALL EXTEND DOWN TO FOUNDATION (OR FLOOR FOR ELEVATED SLABS). HOOKED DOWELS SHALL BE PLACED IN ALL MASONRY BOND BEAMS. THESE BARS SHALL BE OF SUFFICIENT LENGTH TO LAP WITH THE VERTICAL BARS IN THE MASONRY WALL ABOVE.

4. IN THE EVENT THAT PRE-CAST LINTELS ARE USED IN MASONRY WALLS, THE CONTRACTOR SHALL INSTALL AN ADDITIONAL #6 BAR IN EACH CELL BELOW THE BEARING CONDITION. VERTICAL WALL REBAR (#6 BAR MINIMUM) SHALL BE PLACED IN EACH OF THE NEXT TWO CELLS (UNINTERRUPTED) BEYOND THE END OF THE PRECAST LINTEL. THESE BARS SHALL EXTEND FROM FOUNDATION TO FLOOR OR ROOF ABOVE. FOR ELEVATED SLABS THE BARS SHALL EXTEND DOWN TO THE ELEVATED FLOOR ELEVATION. THE CONTRACTOR SHALL INSTALL HORIZONTAL BARS ABOVE AND BELOW THE WINDOW AND DOOR OPENINGS AS INDICATED IN PREVIOUS NOTE.

5. FILL ALL CELLS BELOW FLOOR (AND GRADE) LEVEL OR CONTAINING REBAR WITH 2500 PSI GROUT. GROUT SHALL BE PLACED IN LIFTS NO HIGHER THAN 5 FEET. MASONRY UNITS SHALL BE CLEAN AND DRY. 2 HOUR (AND HIGHER) FIRE RATED MASONRY WALLS SHALL HAVE ALL CELLS GROUT FILLED.

6. THE CONTRACTOR SHALL INSTALL SUFFICIENT REBAR PLACEMENT WALL TIES TO ENSURE THE PROPER PLACEMENT OF ALL HORIZONTAL AND VERTICAL REBAR.

7. ALL MASONRY ACCESSORIES (INCLUDING LINTEL PLATES AND ANGLES) SHALL BE GALVANIZED. HORIZONTAL BED JOINT REINFORCEMENT AND ANGLES SHALL HAVE A MINIMUM THICKNESS OF 3/8" THICK UNLESS OTHERWISE NOTED.

8. THE GENERAL CONTRACTOR SHALL SUBMIT REBAR SHOP DRAWINGS SHOWING NUMBER, SIZE AND LOCATION, INCLUDING BAR LISTS AND DIAGRAMS, TO THE ARCHITECT FOR APPROVAL. TO PREVENT DELAY IN THE APPROVAL PROCESS, THE STRUCTURAL DRAWINGS SHALL NOT BE DUPLICATED IN THE SHOP DRAWING PROCESS. TO PREVENT A POSSIBLE DELAY IN CONSTRUCTION, SHOP DRAWINGS SHOULD BE SUBMITTED WITH AMPLE TIME FOR APPROVAL AND FABRICATION.

THE STRUCTURAL DRAWINGS ARE NOT TO BE REPRODUCED FOR SHOP DRAWINGS, SECTION SHEETS OR ERECTION PLANS. THE CONTRACTOR SHALL SUBMIT AN AMPLIFIED NUMBER OF SETS OF SHOP DRAWINGS TO ALLOW FOR EACH DESIGN PROFESSIONAL TO RETAIN A SET FOR THE FILE. SHOP DRAWINGS SHALL BE REVIEWED AND APPROVED BY THE CONTRACTOR FOR (BUT NOT LIMITED TO) DIMENSIONS, ELEVATIONS, AND ERECTION PROCEDURES PRIOR TO ARCHITECT & STRUCTURAL ENGINEER'S REVIEW. AMPLE TIME, AS DETERMINED BY THE STRUCTURAL ENGINEER, SHALL BE ALLOTTED FOR HIS REVIEW OF SHOP DRAWINGS. THE CONTRACTOR MAY ISSUE SHOP DRAWINGS EARLY IN THE SCHEDULE TO ALLOW FOR REGISTERED ENGINEER REGISTERED IN THE PROJECT STATE.

9. MASONRY REBAR LAP SPLICES SHALL BE:

#4 BARS = 24" LAP
#5 BARS = 30" LAP
#6 BARS = 48" LAP
#7 BARS = 60" LAP
#8 BARS = 90" LAP

NET AREA COMPRESSIVE STRENGTH OF 2000 PSI WHEN USED IN CONJUNCTION WITH TYPE S MORTAR.

11. ALL MASONRY SHALL BE PLACED IN FULL MORTAR. ALL MORTAR SHALL BE TYPE S OR "S".

12. THE INTERSECTION OF ALL LOAD BEARING MASONRY WALLS SHALL BE TIED OR ATTACHED AT INTERSECTIONS OR WHERE THEY MEET BY ONE OF THE FOLLOWING METHODS:

A. STEEL CONNECTIONS: WALLS SHALL BE ANCHORED AT INTERSECTIONS USING 2" WIDE X 0.25" THICK BY 24" LONG STRAPS (GALVANIZED) PLUS A 2" 90 DEGREE BEND AT EACH END. STEEL STRAPS SHALL BE PLACED IN MORTAR BED JOINT 48" ON CENTER VERTICALLY.

B. BONDING COURSE: FIFTY PERCENT OF THE MASONRY UNITS SHALL BE LAPPED IN AN OVERLAPPING PATTERN. MASONRY UNITS FORMING THE BONDING PATTERN SHALL BEAR NO LESS THAN 3 INCHES ON THE UNITS BELOW.

C. VERTICAL REINFORCEMENT: INTERSECTING WALLS MAY BE JOINED USING MASONRY WALL REINFORCEMENT SPACED AT 8 INCHES ON CENTER VERTICALLY. WIRE #8 ZEPHUS SHALL BE AT LEAST W1.7 AND EXTEND AT LEAST 50 INCHES FROM THE INTERSECTION.

NOTE: FOR APPLICATIONS WHERE INDEPENDENT FIRE WALLS ARE USED, INTERSECTING WALLS SHALL NOT BE TIED TO THESE FIRE WALLS TO ALLOW THE FREESTANDING WALLS TO REMAIN IN CONTACT IN THE EVENT OF A FIRE.

NOTE: NON-LOAD BEARING MASONRY PARTITION WALLS SHALL BE TIED TO ONE ANOTHER BUT NOT TIED TO LOAD BEARING MASONRY WALLS.

13. THE CONTRACTOR SHALL TAKE ADDITIONAL PRECAUTIONS WHEN MASONRY IS TO BE CONSTRUCTED DURING COLD WEATHER (AMBIENT TEMPERATURE BELOW 40 DEGREES FAHRENHEIT). DURING HOT CONDITIONS (ABOVE 90 DEGREES) PRECAUTIONS SHALL BE TAKEN TO PREVENT EXCESS HEAT IN THE MASONRY UNITS, WATER AND MORTAR. IT IS ADVISED THAT THE CONTRACTOR FOLLOW THE RECOMMENDATIONS PRESCRIBED BY AMERICAN CONCRETE ASSOCIATION FOR COLD OR HOT WEATHER CONSTRUCTION.

14. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF MASONRY WALLS NOT SHOWN ON THE STRUCTURAL DRAWINGS.

15. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF MASONRY CONTROL JOINTS & BRICK EXPANSION JOINTS. ALL CONTROL JOINTS AND EXPANSION JOINTS SHALL BE INSTALLED IN ACCORDANCE TO THE STANDARDS SET FORTH BY THE NATIONAL CONCRETE MASONRY ASSOCIATION. IN NO CASE SHALL EXTERIOR WALL JOINTS BE SPACED GREATER THAN 26 FEET ON CENTER AND INTERIOR WALL JOINTS SHALL NOT EXCEED 30 FEET ON CENTER. REINFORCED BOND BEAMS LOCATED AT ROOF AND/OR FLOOR DIAPHRAGMS SHALL BE CONTINUOUS THROUGH MASONRY JOINTS UNLESS OTHERWISE SPECIFIED IN THE STRUCTURAL DRAWINGS.

16. THE GENERAL CONTRACTOR SHALL SUBMIT REBAR SHOP DRAWINGS SHOWING NUMBER, SIZE AND LOCATION, INCLUDING BAR LISTS AND DIAGRAMS, TO THE ARCHITECT FOR APPROVAL.

17. RUNNING BOND MASONRY TO HAVE 9 GAGE LADDER TYPE JOINT REINFORCEMENT @ 16" ON CENTER VERTICALLY. PREFORMED BED JOINT REINFORCEMENT SHALL BE USED AT ALL WALL CORNERS AND INTERSECTIONS. ALL GAGE WIRE LADDER TYPE BED JOINT REINFORCEMENT SHALL BE LAPPED A MINIMUM OF 8 INCHES.

18. STACKED BOND MASONRY TO HAVE 9 GAGE LADDER JOINT REINFORCEMENT @ 8" ON CENTER VERTICALLY. PREFORMED BED JOINT REINFORCEMENT SHALL BE USED AT ALL WALL CORNERS AND INTERSECTIONS. ALL GAGE WIRE LADDER TYPE BED JOINT REINFORCEMENT SHALL BE LAPPED A MINIMUM OF 8 INCHES.

19. ALL NON LOAD BEARING MASONRY WALLS SHALL BE SUPPORTED AT THE TOP TO RESIST LATERAL FORCES AT 8 FEET ON CENTER (MAX). THIS SHALL BE ACHIEVED BY INSTALLING 3 X 3 X 1/4" VERTICAL ANGLES FROM THE TOP OF THE MASONRY WALLS TO THE BOTTOM OF THE STRUCTURE ABOVE. THE ANGLES SHALL BE RIGIDLY ATTACHED TO THE UNDERSIDE OF THE STRUCTURAL SYSTEM AND KICKERS SHALL BE USED TO LATERALLY STABILIZE THESE VERTICAL ANGLES. THE STEEL ATTACHMENT TO THE TOP OF THE MASONRY WALLS SHALL BE SLOTTED TO ALLOW FOR VERTICAL MOVEMENT (VERTICAL ROOF DEFLECTION) OF THE ABOVE STRUCTURE WITHOUT IMPARTING LATERAL LOADS TO THE TOP OF THE MASONRY WALLS. ADDITIONAL ANGLES MAY BE REQUIRED TO PROVIDE ATTACHMENT FOR THE VERTICAL ANGLE TO THE FRAMING ABOVE DEPENDING ON THE CONFIGURATION AND PLACEMENT OF THE STRUCTURAL FRAMING.

20. FOR ALL LOAD BEARING WALLS (AND SHEAR WALLS) THE CONTRACTOR SHALL INSTALL BOND BEAMS AT A MAXIMUM SPACING OF 4 FEET ON CENTER AS MEASURED FROM THE TOP OF FOUNDATION. FOR ALL NON-LOAD BEARING WALLS THE CONTRACTOR SHALL INSTALL BOND BEAMS AT A MAXIMUM SPACING OF 8 FEET ON CENTER AS MEASURED FROM THE TOP OF FOUNDATION. BOND BEAMS SHALL ALSO BE LOCATED AT THE TOP OF ALL MASONRY WALLS AND AT LOCATIONS IN WHICH THE MASONRY WALLS ARE ATTACHED (OR OFFER SUPPORT) TO FLOOR AND ROOF FRAMING MEMBERS.

IN SOME CASES, BOND BEAMS MAY HAVE TO BE CUT DOWN FROM 16 INCH DEEP BOND BEAMS IN ORDER TO ACHIEVE THE PROPER ELEVATION FOR JOIST BEARING ELEVATIONS. 8" WIDE BOND BEAMS SHALL CONTAIN TWO #6 BARS. 12" WIDE BOND BEAMS SHALL CONTAIN TWO #6 BARS.

THE CONTRACTOR MAY PLACE ELECTRICAL BOXES IN BOND BEAMS PROVIDED THE REBAR IS CONTINUOUS. THE CONTRACTOR MAY ALSO SPACE BOND BEAMS AS NEEDED TO MISS ELECTRICAL BOXES PROVIDED THE BOND BEAM MAXIMUM SPACING IS MAINTAINED. REINFORCED BOND BEAMS LOCATED AT ROOF AND/OR FLOOR DIAPHRAGMS SHALL BE CONTINUOUS THROUGH MASONRY EXPANSION JOINTS UNLESS OTHERWISE SPECIFIED IN THE STRUCTURAL DRAWINGS.

22. WALL SLEEVES FOR UTILITIES SHALL BE CAREFULLY PLACED TO PREVENT CONFLICT WITH WALL AND FOUNDATION REINFORCEMENT. TO PREVENT LOAD TRANSFER TO THE UTILITY, ALL PIPES SHALL BE SLEEVED WITH STEEL OR DUCTILE IRON TO PROVIDE A 1 INCH CLEARANCE BETWEEN THE SLEEVE AND UTILITY PIPE.

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Recreation Center

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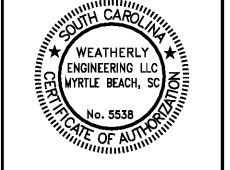
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Checked by: DWS

Notes:  
**BIDDING DOCUMENTS**

Revisions:

General Notes

S100