

TESTING & INSPECTION REQUIREMENTS
(INCLUDING SPECIAL INSPECTIONS)

THESE DRAWINGS WERE
PREVIOUSLY SIGNED
AND SEALED ON
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NOTES:

- THESE INSPECTIONS DO NOT RELIEVE ENGINEER FROM STRUCTURAL OBSERVATIONS AS MAY BE REQUIRED BY IRC 2008, SECTION 1705, AND/OR CONTRACTUAL REQUIREMENTS OF ARCHITECT/CLIENT, (I.E. C141).
- DEFINITIONS/TERM: PERIODIC VS. CONTINUOUS INSPECTIONS - REF. IRC SECTION 1702
- ADSC - THE INTERNATIONAL ASSOCIATION OF FOUNDATION DRILLING
- ASNT - AMERICAN SOCIETY FOR NONDESTRUCTIVE TESTING
- ASTM - AMERICAN SOCIETY FOR TESTING MATERIALS
- AWES - AMERICAN WELDING SOCIETY
- CWI - CERTIFIED WELDING INSPECTOR
- CRSI - CONCRETE REINFORCING STEEL INSTITUTE
- PCI - PRECAST/PRESTRESSED CONCRETE INSTITUTE
- PTI - POST-TENSIONING INSTITUTE
- NA - NOT APPLICABLE

*TESTING AND INSPECTION DIRECTED BY ASTM E239 GUIDELINES.

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| DATE: | No.: | REVISION: |
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| 02.19.10 | | PERMIT SET |
| 04.02.10 | | GMP |
| 11.11.10 | | CONTRACT SET |

SHEET TITLE:
SPECIAL
INSPECTION NOTES

S-2.01

KEY PLAN

| LEVEL 1 INSPECTION CONT. | | | |
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| C. PRIOR TO GROUTING, THE FOLLOWING SHALL BE VERIFIED TO ENSURE COMPLIANCE: | PERIODIC | 1. GROUT SPACE IS CLEAN. | |
| | PERIODIC | 2. PLACEMENT OF REINFORCEMENT AND CONNECTORS AND PRESTRESSING TENDONS AND ANCHORS (EXPANSION ANCHORS, SCREW ANCHORS ADHESIVE ANCHORS, ECT.). | |
| | PERIODIC | 3. PROPORTIONS OF SITE-PREPARED GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS. | |
| | PERIODIC | 4. CONSTRUCTION OF MORTAR JOINTS. | |
| D. GROUT PLACEMENT | CONTINUOUS | 1. VERIFY COMPLIANCE WITH CODE AND CONSTRUCTION DOCUMENTS PROVISIONS. | |
| | CONTINUOUS | 2. GROUTING OF PRESTRESSING BONDED TENDONS. | |
| E. PREPARATION OF ANY REQUIRED GROUT SPECIMENS (MORTAR SPECIMENS AND/OR PRISMS SHALL BE OBSERVED). | CONTINUOUS | 1. VERIFY COMPLIANCE WITH CODE AND CONSTRUCTION DOCUMENTS PROVISIONS. | QUALIFICATIONS BASED ON C1093 |
| F. COMPLIANCE WITH REQUIRED INSPECTION PROVISION OF THE CONSTRUCTION DOCUMENTS AND THE APPROVED SUBMITTALS SHALL BE VERIFIED. | PERIODIC | 1. VERIFY COMPLIANCE WITH CODE AND CONSTRUCTION DOCUMENTS PROVISIONS. | |
| G. TESTING OF GROUT SPECIMENS (MORTAR SPECIMENS AND/OR PRISMS). | PERIODIC | 1. TEST ONE SET OF MORTAR CUBES PER 2000 # OR PORTION THEREOF. 2. TEST ONE SET OF GROUT CYLINDERS PER 2000 # OR PORTION THEREOF. 3. TEST ONE PRISM PER 6000 # OR PORTION THEREOF. (SUBMITTED PRISM WILL BE ACCEPTABLE FOR FIRST PRISM TEST). | QUALIFICATIONS BASED ON C1093 |
| H. POST INSTALLED REINFORCING & ANCHORS (EXPANSION ANCHORS, SCREW ANCHORS ADHESIVE ANCHORS, ECT.). | CONTINUOUS | THE SPECIAL INSPECTOR SHALL BE ON THE JOB SITE CONTINUOUSLY DURING ANCHOR INSTALLATION TO VERIFY ANCHOR TYPE, ANCHOR DIMENSIONS, MASONRY TYPE AND COMPRESSION STRENGTH, PRE-DRILLED HOLE DIMENSIONS, ANCHOR SPACING, EDGE DISTANCES, MASONRY THICKNESS AND ANCHOR EMBEDMENT. | ACI 318 APPENDIX D-CH. D.9.1 QUALIFICATIONS BASED ON C1093 |
| LEVEL 2 INSPECTION: | | | |
| | | ENGINEERED MASONRY IN ESSENTIAL FACILITIES. | IBC 1704.5.3 QUALIFICATIONS BASED ON C1093 |
| A. FROM THE BEGINNING OF MASONRY CONSTRUCTION, THE FOLLOWING SHALL BE VERIFIED TO ENSURE COMPLIANCE: | NA | 1. PROPORTIONS OF SITE-PREPARED MORTAR, GROUT, AND PRESTRESSING GROUT FOR BONDED TENDONS. | |
| | NA | 2. PLACEMENT OF MASONRY UNITS AND CONSTRUCTION OF MORTAR JOINTS. | |
| | NA | 3. PLACEMENT OF REINFORCEMENT, CONNECTORS, AND PRESTRESSING TENDONS AND ANCHORAGES. | |
| | NA | 4. GROUT SPACE PRIOR TO GROUTING. | |
| | NA | 5. PLACEMENT OF GROUT. | |
| | NA | 6. PLACEMENT OF PRESTRESSING GROUT. | |
| B. THE INSPECTION PROGRAM SHALL VERIFY: | NA | 1. SIZE AND LOCATION OF STRUCTURAL ELEMENTS. | |
| | NA | 2. TYPE, SIZE AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES, OR OTHER CONSTRUCTION. | |
| | NA | 3. SPECIFIED SIZE, GRADE AND TYPE OF REINFORCEMENT. | |
| | NA | 4. WELDING OF REINFORCEMENT. | |
| | NA | 5. PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40 DEGREES F) OR HOT WEATHER (TEMPERATURE ABOVE 90 DEGREES F). | |
| | NA | 6. APPLICATION AND MEASUREMENT OF PRESTRESSING FORCE. | |
| C. PREPARATION OF ANY REQUIRED GROUT SPECIMENS (MORTAR SPECIMENS AND/OR PRISMS SHALL BE OBSERVED). | NA | 1. VERIFY COMPLIANCE WITH CODE AND CONSTRUCTION DOCUMENTS PROVISIONS. | QUALIFICATIONS BASED ON C1093 |
| D. COMPLIANCE WITH REQUIRED INSPECTION PROVISIONS OF THE CONSTRUCTION DOCUMENTS AND THE APPROVED SUBMITTALS SHALL BE VERIFIED. | NA | | |
| E. TESTING OF GROUT SPECIMENS (MORTAR SPECIMENS AND/OR PRISMS). | NA | 1. TEST ONE SET OF MORTAR CUBES PER 2000 # OR PORTION THEREOF. 2. TEST ONE SET OF GROUT CYLINDERS PER 2000 # OR PORTION THEREOF. 3. TEST ONE PRISM PER 6000 # OR PORTION THEREOF. (SUBMITTED PRISM WILL BE ACCEPTABLE FOR FIRST PRISM TEST). | QUALIFICATIONS BASED ON C1093 |
| 7. WOOD CONSTRUCTION | | | |
| A. PREFABRICATED STRUCTURAL ELEMENTS & ASSEMBLIES | NA | INSPECT STRUCTURAL LOAD BEARING MEMBERS AND ASSEMBLIES. VERIFY THAT THE FABRICATOR MAINTAINS DETAILED FABRICATION AND QUALITY CONTROL PROCEDURES THAT PROVIDE A BASIS FOR INSPECTION CONTROL OF THE WORKMANSHIP AND THE FABRICATOR'S ABILITY TO CONFORM TO APPROVED CONSTRUCTION DOCUMENTS AND REFERENCED STANDARDS. THE SPECIAL INSPECTOR SHALL REVIEW THE PROCEDURES FOR CODE REQUIREMENTS FOR THE FABRICATOR'S SCOPE OF WORK. SPECIAL INSPECTIONS SHALL NOT BE REQUIRED WHERE THE FABRICATOR IS ENROLLED IN A NATIONALLY ACCEPTED INSPECTIONS PROGRAM ACCEPTABLE TO THE REGISTERED DESIGN PROFESSIONAL. IS RESPONSIBLE CHARGE. | IBC 1704.6 IBC 1704.5.3 TECHNICAL REPRESENTATIVE UNDER DIRECTION OF LICENSED ENGINEER |
| B. SITE BUILT ASSEMBLIES | NA | SITE BUILT ASSEMBLIES SHALL BE INSPECTED IN ACCORDANCE WITH IBC SECTION 1704.1 | IBC 1704.1 LICENSED ENGINEER OR HIS/HER REPRESENTATIVE. |
| C. DIAPHRAGMS | NA | HIGH LOAD DIAPHRAGMS SHALL BE INSPECTED IN ACCORDANCE WITH IBC SECTION 1704.1, AND SHEATHING CHECKED FOR PROPER GRADE, THICKNESS, SIZE OF FRAMING MEMBERS AT ADJOINING PANEL EDGES, MULTIPLE DIAMETER AND LENGTH, AND FASTENER PATTERN. | IBC TABLE 2306.3.2 |
| D. TRUSS BRACING | NA | CHECK ALL REQUIRED PERMANENT AND LATERAL BRACING HAS BEEN INSTALLED ACCORDING TO STRUCTURAL DRAWINGS AND FABRICATOR DESIGN/SHOP DRAWINGS. | |
| 8. LIGHT GAGE FRAME CONSTRUCTION | | | |
| A. PREFABRICATED STRUCTURAL ELEMENTS & ASSEMBLIES | PERIODIC | INSPECT STRUCTURAL LOAD BEARING MEMBERS AND ASSEMBLIES. VERIFY THAT THE FABRICATOR MAINTAINS DETAILED FABRICATION AND QUALITY CONTROL PROCEDURES THAT PROVIDE A BASIS FOR INSPECTION CONTROL OF THE WORKMANSHIP AND THE FABRICATOR'S ABILITY TO CONFORM TO APPROVED CONSTRUCTION DOCUMENTS AND REFERENCED STANDARDS. THE SPECIAL INSPECTOR SHALL REVIEW THE PROCEDURES FOR CODE REQUIREMENTS FOR THE FABRICATOR'S SCOPE OF WORK. SPECIAL INSPECTIONS SHALL NOT BE REQUIRED WHERE THE FABRICATOR IS ENROLLED IN A NATIONALLY ACCEPTED INSPECTIONS PROGRAM ACCEPTABLE TO THE REGISTERED DESIGN PROFESSIONAL. IS RESPONSIBLE CHARGE. | IBC 1704.2 TECHNICAL REPRESENTATIVE UNDER DIRECTION OF LICENSED ENGINEER |
| B. SITE BUILT ASSEMBLIES | PERIODIC | SITE BUILT ASSEMBLIES SHALL BE INSPECTED IN ACCORDANCE WITH IBC SECTION 1704.1 | IBC 1704.1 LICENSED ENGINEER OR HIS/HER REPRESENTATIVE. |
| C. DIAPHRAGMS | PERIODIC | HIGH LOAD DIAPHRAGMS SHALL BE INSPECTED IN ACCORDANCE WITH IBC SECTION 1704.1, AND SHEATHING CHECKED FOR PROPER GRADE, THICKNESS, SIZE OF FRAMING MEMBERS AT ADJOINING PANEL EDGES, MULTIPLE DIAMETER AND LENGTH, AND FASTENER PATTERN. | IBC TABLE 2306.3.2 |
| D. TRUSS BRACING | PERIODIC | CHECK ALL REQUIRED PERMANENT AND LATERAL BRACING HAS BEEN INSTALLED ACCORDING TO STRUCTURAL DRAWINGS AND FABRICATOR DESIGN/SHOP DRAWINGS. | |

| 3. CONCRETE CONSTRUCTION CONT. | | | |
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| L. REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS. | PERIODIC | VERIFY IN-SITU CONCRETE STRENGTH PRIOR TO REMOVAL. | ACI 318-CH. 5.11, 5.13 APPLICABLE |
| M. POST INSTALLED REINFORCING & ANCHORS (EXPANSION ANCHORS, SCREW ANCHORS ADHESIVE ANCHORS, ECT.). | CONTINUOUS | THE SPECIAL INSPECTOR SHALL BE ON THE JOB SITE CONTINUOUSLY DURING ANCHOR INSTALLATION TO VERIFY ANCHOR TYPE, ANCHOR DIMENSIONS, CONCRETE TYPE AND COMPRESSION STRENGTH, PRE-DRILLED HOLE DIMENSIONS, ANCHOR SPACING, EDGE DISTANCES, CONCRETE THICKNESS AND ANCHOR EMBEDMENT. | ACI 318 APPENDIX D-CH. D.9.1 QUALIFICATIONS BASED ON C1093 |
| 4. STEEL CONSTRUCTION | | | |
| A. MATERIAL VERIFICATION OF HIGH STRENGTH BOLTS, NUTS AND WASHERS. | PERIODIC | 1. IDENTIFICATION MARKINGS TO CONFORM TO ASTM SPECIFICATION IN THE APPROVED CONSTRUCTION DOCUMENTS. | STRUCTURAL STEEL GENERAL NOTES CIVIL ASSOCIATE/TECHNICAL RADIATE, AWS OR CRSI |
| | PERIODIC | 2. MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED. | APPLICABLE ASTM MATERIAL SPECIFICATIONS, ASS. LRFD, SECTION A3.4 ASS. LRFD, SECTION A3.3 |
| B. HIGH STRENGTH BOLTING. | PERIODIC | 1. BEARING-TYPE CONNECTIONS. | IBC 1704.3.3 STRUCTURAL STEEL GENERAL NOTES CIVIL ASSOCIATE/TECHNICAL RADIATE, AWS OR CRSI |
| | CONTINUOUS OR PERIODIC | 2. SLIP-CRITICAL CONNECTIONS. | ASS. LRFD SECTION M2.5 |
| C. MATERIAL VERIFICATION OF STRUCTURAL STEEL. | PERIODIC | 1. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS. | IBC 1708.4.3 STRUCTURAL STEEL GENERAL NOTES CIVIL ASSOCIATE/TECHNICAL RADIATE, AWS OR CRSI |
| | PERIODIC | 2. MANUFACTURER'S CERTIFIED MILL TEST REPORTS. | ASTM A 6 OR ASTM A 588 |
| D. MATERIAL VERIFICATION OF WELD FILLER MATERIALS. | PERIODIC | 1. IDENTIFICATION MARKINGS TO CONFORM TO AWS SPECIFICATION IN THE APPROVED CONSTRUCTION DOCUMENTS. | STRUCTURAL STEEL GENERAL NOTES CIVIL ASSOCIATE/TECHNICAL RADIATE, AWS OR CRSI |
| | PERIODIC | 2. MANUFACTURER'S CERTIFIED COMPLIANCE REQUIRED. | ASS. ASD, SECTION A3.6 ASS. LRFD, SECTION A3.5 |
| E. WELDING OF STRUCTURAL STEEL. | CONTINUOUS | 1. COMPLETE & PARTIAL PENETRATION GROOVE WELDS. | IBC 1704.3.1 STRUCTURAL STEEL GENERAL NOTES CWI AND ASNT |
| | CONTINUOUS | 2. MULTIPASS FILLET WELDS. | AWS D1.1 CWI AND ASNT OR LICENSED ENGINEER |
| | CONTINUOUS | 3. SINGLE-PASS FILLET WELDS > 5/16" | |
| | PERIODIC | 4. SINGLE-PASS FILLET WELDS ≤ 5/16" | |
| | PERIODIC | 5. FLOOR AND DECK WELDS. | AWS D1.3 |
| F. WELDING OF REINFORCING STEEL. | PERIODIC | 1. VERIFICATION OF WELD ABILITY OF REINFORCING STEEL OTHER THAN A706. | CIVIL ASSOCIATE/TECHNICAL TRAINED IN FIELD OF WORK AND HAS AT LEAST ONE YEAR OF EXPERIENCE. |
| | CONTINUOUS | 2. REINFORCING STEEL-RESISTING FLEXURAL AND AXIAL FORCES IN INTERMEDIATE AND SPECIAL MOMENT FRAMES, AND BOUNDARY ELEMENTS OF SPECIAL REINFORCED CONCRETE SHEAR WALLS AND SHEAR REINFORCEMENT. | |
| | CONTINUOUS | 3. SHEAR REINFORCEMENT. | |
| PERIODIC | 4. OTHER REINFORCING STEEL. | | |
| G. STEEL FRAME JOINT DETAILS, COMPLIANCE WITH APPROVED CONSTRUCTION DOCUMENTS. | PERIODIC | 1. DETAILS SUCH AS BRACING & STIFFENING. | IBC 1704.3.2 STRUCTURAL DRAWINGS PROJECT OF COMPLEX DETAILS |
| | PERIODIC | 2. MEMBER LOCATIONS. | ASSOCIATE CWI PROJECTS OF RELATIVELY SIMPLE DETAILS |
| | PERIODIC | 3. APPLICATION OF JOINT DETAILS AT EACH CONNECTION. | TECHNICAL TRAINED IN FIELD OF WORK AND HAS AT LEAST ONE YEAR OF EXPERIENCE. |
| H. POST INSTALLED REINFORCING & ANCHORS (EXPANSION ANCHORS, SCREW ANCHORS ADHESIVE ANCHORS, ECT.). | CONTINUOUS | THE SPECIAL INSPECTOR SHALL BE ON THE JOB SITE CONTINUOUSLY DURING ANCHOR INSTALLATION TO VERIFY ANCHOR TYPE, ANCHOR DIMENSIONS, CONCRETE OR MASONRY TYPE AND COMPRESSION STRENGTH, PRE-DRILLED HOLE DIMENSIONS, ANCHOR SPACING, EDGE DISTANCES, CONCRETE OR MASONRY THICKNESS AND ANCHOR EMBEDMENT. | ACI 318 APPENDIX D-CH. D.9.1 QUALIFICATIONS BASED ON C1093 |
| 5. INSPECTION OF FABRICATORS FOR STRUCTURAL STEEL. | | | |
| FABRICATION & IMPLEMENTATION PROCEDURES | PERIODIC | FABRICATION AND IMPLEMENTATION PROCEDURES. SPECIAL INSPECTOR SHALL VERIFY THAT THE FABRICATOR MAINTAINS DETAILED FABRICATION AND QUALITY CONTROL OF THE WORKMANSHIP AND THE FABRICATOR'S ABILITY TO CONFORM TO APPROVED CONSTRUCTION DOCUMENTS AND REFERENCED STANDARDS. THE SPECIAL INSPECTOR SHALL REVIEW THE PROCEDURES FOR COMPLETENESS AND ADEQUACY RELATIVE TO THE CODE REQUIREMENTS FOR THE FABRICATOR'S SCOPE OF WORK. SPECIAL INSPECTIONS SHALL NOT BE REQUIRED WHERE THE WORK IS DONE ON THE PREMISES OF A FABRICATOR THAT IS ENROLLED IN A NATIONALLY ACCEPTED INSPECTIONS PROGRAM ACCEPTABLE TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE. AT COMPLETION OF FABRICATION, THE APPROVED FABRICATOR SHALL SUBMIT A CERTIFICATE OF COMPLIANCE TO BUILDING OFFICIAL UPON REQUEST AND TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE STATING THAT THE WORK WAS PERFORMED IN ACCORDANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS. | IBC 1704.2.1 IBC 1704.2.2 CWI, ASNT, LICENSED ENGINEER |
| 6. MASONRY CONSTRUCTION | | | |
| EMPIRICALLY DESIGNED MASONRY, GLASS UNIT MASONRY, AND MASONRY VENEER IN NON-ESSENTIAL FACILITIES. | SPECIAL INSPECTIONS NOT REQUIRED PER 1704.5.1 | NA. | IBC 1704.5 |
| LEVEL 1 INSPECTION: | | ENGINEERED MASONRY IN NON-ESSENTIAL FACILITIES AND FACILITIES. | IBC 1704.5.1 IBC 1704.5.2 QUALIFICATIONS BASED ON C1093 |
| A. AS MASONRY CONSTRUCTION BEGINS, THE FOLLOWING SHALL BE VERIFIED TO ENSURE COMPLIANCE: | PERIODIC | 1. PROPORTIONS OF SITE-PREPARED MORTAR. | |
| | PERIODIC | 2. CONSTRUCTION OF MORTAR JOINTS. | |
| | PERIODIC | 3. LOCATION OF REINFORCEMENT AND CONNECTORS. | |
| | PERIODIC | 4. PRESTRESSING TECHNIQUE. | |
| | PERIODIC | 5. GRADE AND SIZE OF PRESTRESSING TENDONS AND ANCHORAGES. | |
| B. THE INSPECTION PROGRAM SHALL VERIFY: | PERIODIC | 1. SIZE AND LOCATION OF STRUCTURAL ELEMENTS. | |
| | PERIODIC | 2. TYPE, SIZE AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES, OR OTHER CONSTRUCTION. | |
| | PERIODIC | 3. SPECIFIED SIZE, GRADE AND TYPE OF REINFORCEMENT. | |
| | PERIODIC | 4. WELDING OF REINFORCING BARS. | |
| | PERIODIC | 5. PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40 DEGREES F) OR HOT WEATHER (TEMPERATURE ABOVE 90 DEGREES F). | |
| PERIODIC | 6. APPLICATION AND MEASUREMENT OF PRESTRESSING FORCE. | | |

| REQUIRED INSPECTION VERIFICATION, OR TEST | VERIFICATION MONITORING FREQUENCY | TYPE AND/OR FREQUENCY OF TESTING | IBC SECTION & REFERENCE CRITERIA | INSPECTOR QUALIFICATIONS |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|
| 1. SOLIDS (SLAB ON GRADE) | | | | |
| A. SUB-GRADE | PERIODIC | AT THE CONTRACTOR'S EXPENSE, INSTRUMENT READINGS SHALL BE TAKEN BY A LICENSED SURVEYOR TO VERIFY FINAL SUBGRADE ELEVATIONS AND SLOPES. | IBC 1704.7.1 | QUALIFICATIONS BASED ON ASTM D3740 LICENSED SURVEYOR |
| 2. PROOFROLLING OBSERVATIONS | CONTINUOUS | PROOFROLLING SHALL BE MONITORED BY A GEOTECHNICAL ENGINEER. THE GEOTECHNICAL ENGINEER SHALL BE APPROVE THE TYPE OF PROOFROLLING EQUIPMENT AND PROCEDURES. | GEOTECHNICAL REPORT, BUILDING PAD GENERAL NOTES | QUALIFICATIONS BASED ON ASTM D3740 |
| 3. MOISTURE CONDITIONING & RECOMPACTION | CONTINUOUS OR PERIODIC | PROVIDE (1) ON DENSITY TEST FOR EACH 3000 SQ. FT. REFER TO UNDERFLOOR FILL NOTES FOR TESTING SPECIFICATIONS. | GEOTECHNICAL REPORT, BUILDING PAD GENERAL NOTES | QUALIFICATIONS BASED ON ASTM D3740 |
| B. CHEMICAL INJECTION | CONTINUOUS | QUALITY CONTROLLED TESTING AND EVALUATION PRIOR AND SUBSEQUENT TO INJECTION SHALL BE PERFORMED BY THE GEOTECHNICAL ENGINEER TO DETERMINE THE EFFECTIVENESS OF THE CHEMICAL INJECTION PROCESS. THE GEOTECHNICAL ENGINEER OR HIS REPRESENTATIVE SHALL MONITOR THE INJECTION PROCESS TO VERIFY AREA COVERAGE, INJECTION DEPTH AND TO REVIEW AND MONITOR THE SWELL TEST RESULTS. | GEOTECHNICAL REPORT, BUILDING PAD GENERAL NOTES | QUALIFICATIONS BASED ON ASTM D3740 |
| C. DURING FILL PLACEMENT | CONTINUOUS OR PERIODIC | VISUAL OBSERVATIONS, DURING PLACEMENT AND COMPACTION OF FILL. SPECIAL INSPECTOR SHALL DETERMINE THE MATERIAL BEING USED AND THE MAXIMUM FILL THICKNESS COMPACT WITH ADDITIONAL SAMPLES TESTED EACH DAY, OR MORE OFTEN IF MATERIAL APPEARS TO VARY. | IBC 1704.7.2 GEOTECHNICAL REPORT, BUILDING PAD GENERAL NOTES | QUALIFICATIONS BASED ON ASTM D3740 |
| D. EVALUATION OF IN. PLACE DENSITY OF FILL. | CONTINUOUS OR PERIODIC | PROVIDE (1) ON DENSITY TEST FOR EACH 3000 SQ. FT. REFER TO UNDERFLOOR FILL NOTES FOR TESTING SPECIFICATIONS. | IBC 1704.7.3 GEOTECHNICAL REPORT, BUILDING PAD GENERAL NOTES | QUALIFICATIONS BASED ON ASTM D3740 |
| E. TRENCH BACKFILLING | CONTINUOUS OR PERIODIC | TRENCH BACKFILLING. TRENCH BACKFILLING WITH CLAY CAP AND PLACING OF CLAY GULF SHALL BE MONITORED BY GEOTECHNICAL ENGINEER. | | |
| 2A. PILE FOUNDATIONS | | | | |
| A. THE GEOTECHNICAL ENGINEER OR A QUALIFIED E.I.T. INVOLVED IN THE ORIGINAL GEOTECHNICAL INVESTIGATION AND UNDER THE DIRECT SUPERVISION OF THE GEOTECHNICAL ENGINEER SHALL BE PRESENT DURING THE EXCAVATION OF THE FIRST PILE. | CONTINUOUS | 1. VERIFY THE BEARING STRATUM IS ENCOUNTERED AT THE ANTICIPATED DEPTH. 2. ADDRESS UNPREESEN SUBSURFACE CONDITIONS, IF ANY. 3. VERIFY CONFORMANCE WITH THE FOUNDATION RECOMMENDATIONS PROVIDED IN THE PROJECT "GEOTECHNICAL ENGINEERING STUDY" AND THE STRUCTURAL DRAWINGS ISSUED FOR THE PROJECT. | IBC 1704.8 GEOTECHNICAL REPORT. | GRADUATE ENGINEER QUALIFICATIONS BASED ON ASTM E239 & ASTM C1077 |
| B. ALL FOOTINGS SHALL BE OBSERVED AND MONITORED BY A REPRESENTATIVE OF THE GEOTECHNICAL ENGINEER. THE CONTRACTOR SHALL PROVIDE THE GEOTECHNICAL ENGINEER WITH A COMPLETE SET OF STRUCTURAL DRAWINGS THAT ARE TO REMAN WITH THE GEOTECHNICAL ENGINEER OR HIS REPRESENTATIVE. | CONTINUOUS | 1. PROVIDE RECORD OF EACH PILE INSTALLED. 2. RECORD LOAD TESTS, CUTOFF AND TIP OF EACH PILE. | IBC 1704.8 GEOTECHNICAL REPORT. | QUALIFICATIONS BASED ON ASTM E239 & ASTM C1077 |
| 2B. PIER FOUNDATIONS | | | | |
| A. THE GEOTECHNICAL ENGINEER OR A QUALIFIED E.I.T. INVOLVED IN THE ORIGINAL GEOTECHNICAL INVESTIGATION AND UNDER THE DIRECT SUPERVISION OF THE GEOTECHNICAL ENGINEER SHALL BE PRESENT DURING THE EXCAVATION OF THE FIRST PIER SHAFT. | NA | 1. VERIFY THE BEARING STRATUM IS ENCOUNTERED AT THE ANTICIPATED DEPTH. 2. ADDRESS UNPREESEN SUBSURFACE CONDITIONS, IF ANY. 3. VERIFY CONFORMANCE WITH THE FOUNDATION RECOMMENDATIONS PROVIDED IN THE PROJECT "GEOTECHNICAL ENGINEERING STUDY" AND THE STRUCTURAL DRAWINGS ISSUED FOR THE PROJECT. | IBC 1704.9 GEOTECHNICAL REPORT. | GRADUATE ENGINEER QUALIFICATIONS BASED ON ASTM E239 & ASTM C1077 |
| B. ALL FOOTINGS SHALL BE OBSERVED AND MONITORED BY A REPRESENTATIVE OF THE GEOTECHNICAL ENGINEER. THE CONTRACTOR SHALL PROVIDE THE GEOTECHNICAL ENGINEER WITH A COMPLETE SET OF STRUCTURAL DRAWINGS THAT ARE TO REMAN WITH THE GEOTECHNICAL ENGINEER OR HIS REPRESENTATIVE. | NA | 1. PROVIDE RECORD OF EACH PIER INSTALLED. 2. RECORD LOAD TESTS, CUTOFF AND TIP OF EACH PIER. | IBC 1704.9 GEOTECHNICAL REPORT. | QUALIFICATIONS BASED ON ASTM E239 & ASTM C1077 |
| 3. CONCRETE CONSTRUCTION | | | | |
| A. REINFORCING STEEL | PERIODIC | PROVIDE PERIODIC INSPECTION OF REINFORCING SIZES, SPACING, GRADE OF REBAR, AND PLACEMENT AT THE FOLLOWING FREQUENCY: BEAMS: 30% JOIST: 10% OTHER MEMBERS: RANDOMLY @ 20% | IBC 1704.4 ACI 318-CH. 5.5, 7.1.7.2 CONCRETE AND REINFORCING GENERAL NOTES | QUALIFICATIONS BASED ON ASTM E239 |
| B. REINFORCING STEEL WELDING | CONTINUOUS | NO FIELD WELDING PERMITTED. C. BOLTS TO BE INSTALLED IN WELDED CONCRETE PRIOR TO A DURING PLACEMENT OF CONCRETE WHERE ALLOWABLE LOADS HAVE BEEN INCREASED. | AWS D1.4 ACI 318-35.2 IBC 1704.4 | CWI OR ASSOCIATE CWI TECHNICIAN TRAINED IN FIELD OF WORK AND HAS AT LEAST ONE YEAR EXPERIENCE. |
| D. ANCHORS TO BE INSTALLED IN EXISTING CONCRETE. | CONTINUOUS | VERIFY LOCATION, SIZE AND SPACING OF ANCHORS. | IBC 1704.4 | TECHNICIAN TRAINED IN FIELD OF WORK AND HAS AT LEAST ONE YEAR EXPERIENCE. |
| E. VERIFY USE OF CONCRETE MIX DESIGN | PERIODIC | EACH CONCRETE POUR. | ACI 318-CH. 4.5.2.6.4 | QUALIFICATIONS BASED ON ASTM C1077 |
| F. SAMPLING OF FRESH CONCRETE POUR. | CONTINUOUS EACH CONCRETE POUR. | 1. ALL CONCRETE TESTING IS TO BE MADE AFTER WATER, IF ANY, IS ADDED AT SITE. 2. TAKE SAMPLES & PERFORM SLUMP, AIR & COMPRESSION TESTS IN ACCORDANCE WITH ASTM C39 ON CONCRETE PLACED EACH DAY AT THE RATE OF ONE SET OF FOUR CYLINDERS FOR EACH 80 cu. yds. OR FRACTION THEREOF. WHEN MORE THAN 80 cu. yds. IS BEING CONTINUOUSLY PLACED, THE INTERVAL BETWEEN TEST SAMPLES SHALL BE AT LEAST 50 cu. yds. SO AS TO BE REPRESENTATIVE OF THE WHOLE DAYS POUR. SAMPLES SHALL BE TAKEN AT THE POINT OF DEPOSIT IN THE FIELD & ALL CYLINDERS SHALL BE ACCURATELY MARKED & REFERENCED TO SHOW DATE, TIME & EXACT LOCATION IN THE STRUCTURE FROM WHICH THEY CAME. MAKE 3-DAY TEST ON TWO CYLINDERS & 28-DAY TEST ON TWO CYLINDERS. REPORT OF TESTS SHALL BE PROMPTLY SENT AS FOLLOWS TWO TO THE POPRC (ARCHITECT), ONE TO THE ENGINEER AND ONE TO THE CONTRACTOR. | ACI 318-CH. 5.8, 5.10 ACI 318-CH. 5.11, 5.13 | QUALIFICATIONS BASED ON ASTM C1077 |
| G. PLACEMENT OF CONCRETE & SHOTCRETE. | CONTINUOUS | | ACI 318-CH. 5.8, 5.10 | QUALIFICATIONS BASED ON ASTM C1077 |
| H. MAINTENANCE OF SPECIFIED CURING TEMPERATURE & TECHNIQUES. | PERIODIC | EACH CONCRETE POUR | ACI 318-CH. 5.11, 5.13 | QUALIFICATIONS BASED ON ASTM C1077 |
| I. PRE-STRESSED CONCRETE. | NA | 1. APPLICATION OF PRESTRESSING FORCE. 2. GROUTING OF BONDED PRESTRESSING TENDONS IN SEISMIC-FORCE RESISTING SYSTEMS. | | QUALIFICATIONS BASED ON ASTM C1077 |
| J. ERECTION OF PRECAST CONCRETE MEMBERS. | NA | | | TECHNICIAN TRAINED IN FIELD OF WORK AND HAS AT LEAST ONE YEAR OF EXPERIENCE. |
| K. POST-TENSIONED CONCRETE: | NA | 1. VERIFY IN-SITU CONCRETE STRENGTH PRIOR TO STRESSING OF TENDONS. | | QUALIFICATIONS BASED ON ASTM E239 |
| | NA | 2. THE POST-TENSIONING ENGINEER, OR A MEMBER OF HIS STAFF, SHALL INSPECT THE TENDON PLACEMENT AND CHARGING TO INSURE COMPLIANCE WITH THE INTENT OF THE DESIGN. | | |
| | NA | 3. CONTINUOUS INSPECTIONS IS REQUIRED DURING ALL STRESSING ACTIVITIES. | | |
| | NA | 4. RECORDS OF ALL JACKING FORCES AND ELONGATIONS SHALL BE MADE IN ACCORDANCE WITH THE PTI FIELD MANUAL AND RECORDS SHALL BE PROMPTLY SUBMITTED TO THE ARCHITECT AND ENGINEER. | | |