

FMIN 100 AREA SLAB (SEE S-250, S-251 AND S-252 FOR DETAILS) SOIL AND BASE

PROOF-ROLLING OF SUBGRADE AND BASE MATERIAL, WITH THE LAST PROOF-ROLLING JUST BEFORE THE SLAB PLACEMENTIN THE AREA SLAB-QN GRADE

. SLAB SHALL BE 10" THICK W/#607" (LONG WAY) WITH 11/2" CLEAR FROM THE TOP OF THE SLAB. PROVIDE #4048" O.C. SHORT WAY TO SERVE AS SUPPORT FOR LONGITUDINAL BARS VAPOR RETARDER, USE A DOUBLE POLY SLIP SHEET. THE TOP SHEET IS TO BE THE VAPOR RETARDER (10 MIL) INSTALLED PER MANUFACTURER'S RECOMMENDATIONS, INCLUDING THE JOINTS TO BE TAPED. THE BOTTOM SLIP SHEET SHALL BE 4 OR 6 MIL POLY, AND THE JOINTS ARE TO BE LAPPED BUT NOT REQUIRED TO BE TAPED. FOLDED SHEETS SHALL NOT BE USED. . DOWELS, LONGITUDINAL CONSTRUCTION JOINTS IN THE RACK FLUE, PNA ¾" DIAMOND DOWEL SPACED AT 24" ON CENTER WITH POCKET FORMERS ON BOTH SIDES OF DOWELS.

CONCRETE

. LOW SHRINKAGE, WELL GRADED AGGREGATES WITH A FLEXURAL STRENGTH OF 650 PSI AT 56 DAYS. 2. 7 DAYS OF WET CURING.

RANDOM TRAFFIC AREA SLAB A SOIL AND BASE

SLAB ON GRADE

1. 6" UNREINFORCED CONCRETE SLAB CLOSELY JOINTED (15'-0" MAX.) WITH ¼" DIAMOND CONSTRUCTION JOINT DOWELS @ 24" AND ¾" DOWEL PLATE BASKETS @ 24" @ CONTROL JOINTS. (10 MIL VAPOR RETARDER).

CONTROL AND CONSTRUCTION JOINTS SHALL BE SAWCUT AND FILLED WITH MM80

CONCRETE LOW SHRINKAGE, WELL GRADED AGGREGATES WITH A FLEXURAL STRENGTH OF 650 PSI AT 56 DAYS. 2. 7 DAYS OF WET CURING.

	COLUMN SCHEDULE						
MARK	SIZE	BASE PLATE	ANCHOR BOLTS	REMARKS			
C1	HSS12x12x1/4	20x20x1	4 — 1"ø AB				
C1B	HSS12x12x1/4	SEE S-304	8 - 1-1/2"ø AB				
C1W	HSS12x12x5/16	20×20×1	4 - 1"ø AB				
C2	HSS12x12x5/16	20x20x1	4 — 1"ø AB				
C3	HSS12x12x5/16	20x20x1½	4 - 1"ø AB				
C4	HSS12x12x1/4	20×20×1	4 - 1"ø AB				
C4B	HSS12x12x1/4	SEE S-304	8 - 1-1/2"ø AB				
C5	HSS10x10x5/16	16x16x1	4 — 1"ø AB				
C6	HSS8x8x1/4	18x18x1/2	4 - 1"ø AB				
C10	HSS8x8x1/4	16x6x1	4 — 1"ø AB				

	FOOTING SCHEDULE					
MARK	SIZE AND REINFORCING					
40)	4'-0"x4'-0"x15" w/ 6- #4 E.W.					
50	5'-0"x5'-0"x15" w/ 7- #4 E.W.					
60	6'-0"x6'-0"x15" w/ 7 #5 E.W					
65)	6'-6"x6'-6"x16" w/ 6- #6 E.W.					
76	7'-6"x7'-6"x18" w/ 8 #6 E.W.					
80	8'-0"x8'-0"x20" w/ 8- #6 E.W.					
100	10'-0"x10'-0"x24" w/ 10- #7 BOTTOM E.W.					
(100S)	10'-0"x10'-0"x30" w/ 11- #7 BOTTOM E.W. 11- #5 TOP E.W.					
(120S)	12'-0"x12'-0"x30" w/ 13- #7 BOTTOM E.W. 13- #5 TOP E.W.					
	13- #5 TOP E.W.					

**S-207 S-204** \$-205 **S-206** \$-203



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RINT RECORD 07/08/13 75% REVIEW 07/31/13 BID/PERMIT ISSUE 08/09/13 ADDENDUM NO 1

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PROJECT INFORMATION

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**125 LOGISTICS CENTER PARKWAY JEFFERSON, GEORGIA 30549** 



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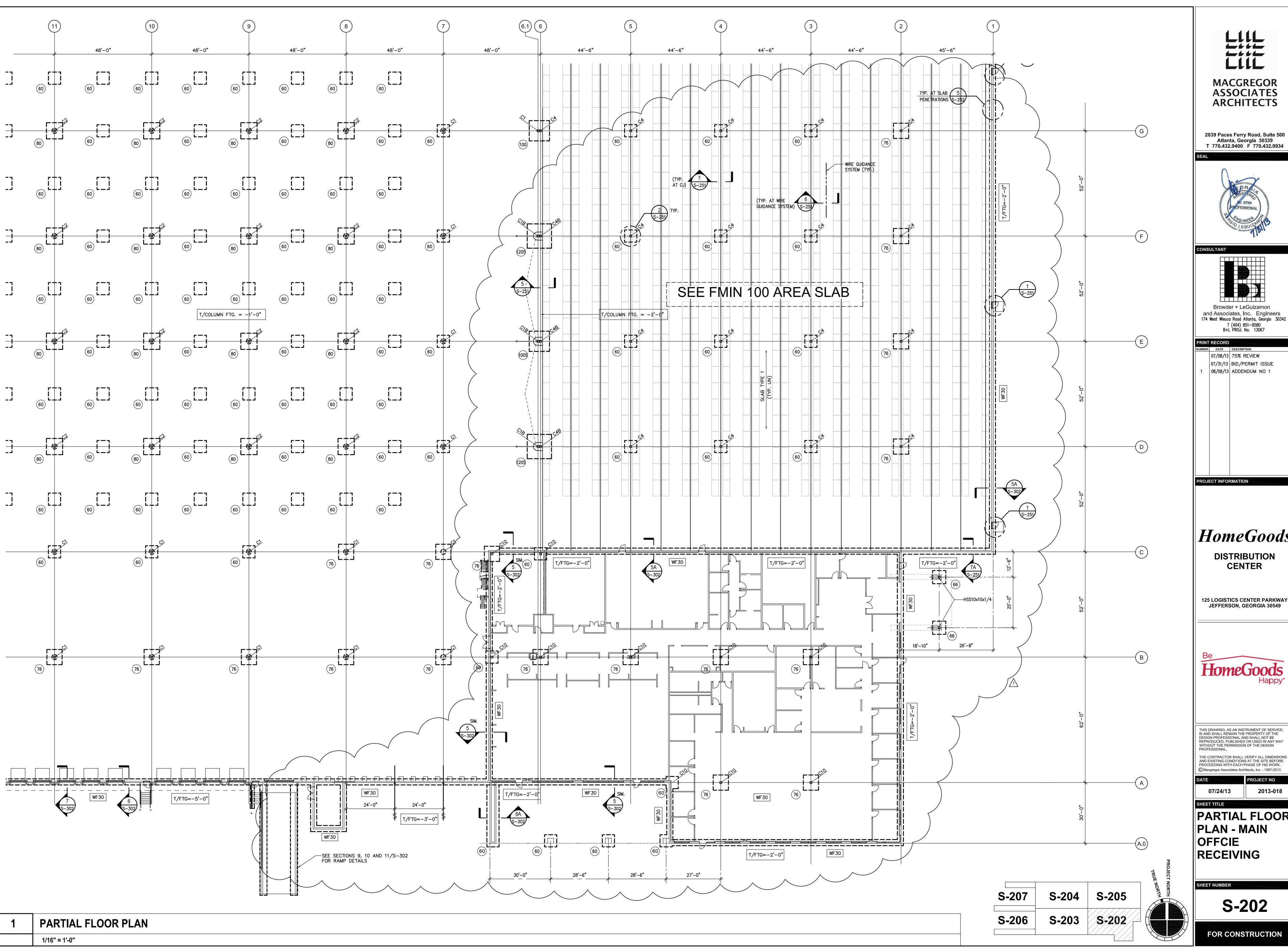
THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS AT THE SITE BEFORE PROCEEDING WITH EACH PHASE OF HIS WORK. © Macgregor Associates Architects, Inc. - 1987-2013

PROJECT NO 07/24/13 2013-018 SHEET TITLE

OVERALL FOUNDATION PLAN

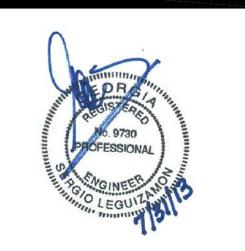
SHEET NUMBER

**S-201** 



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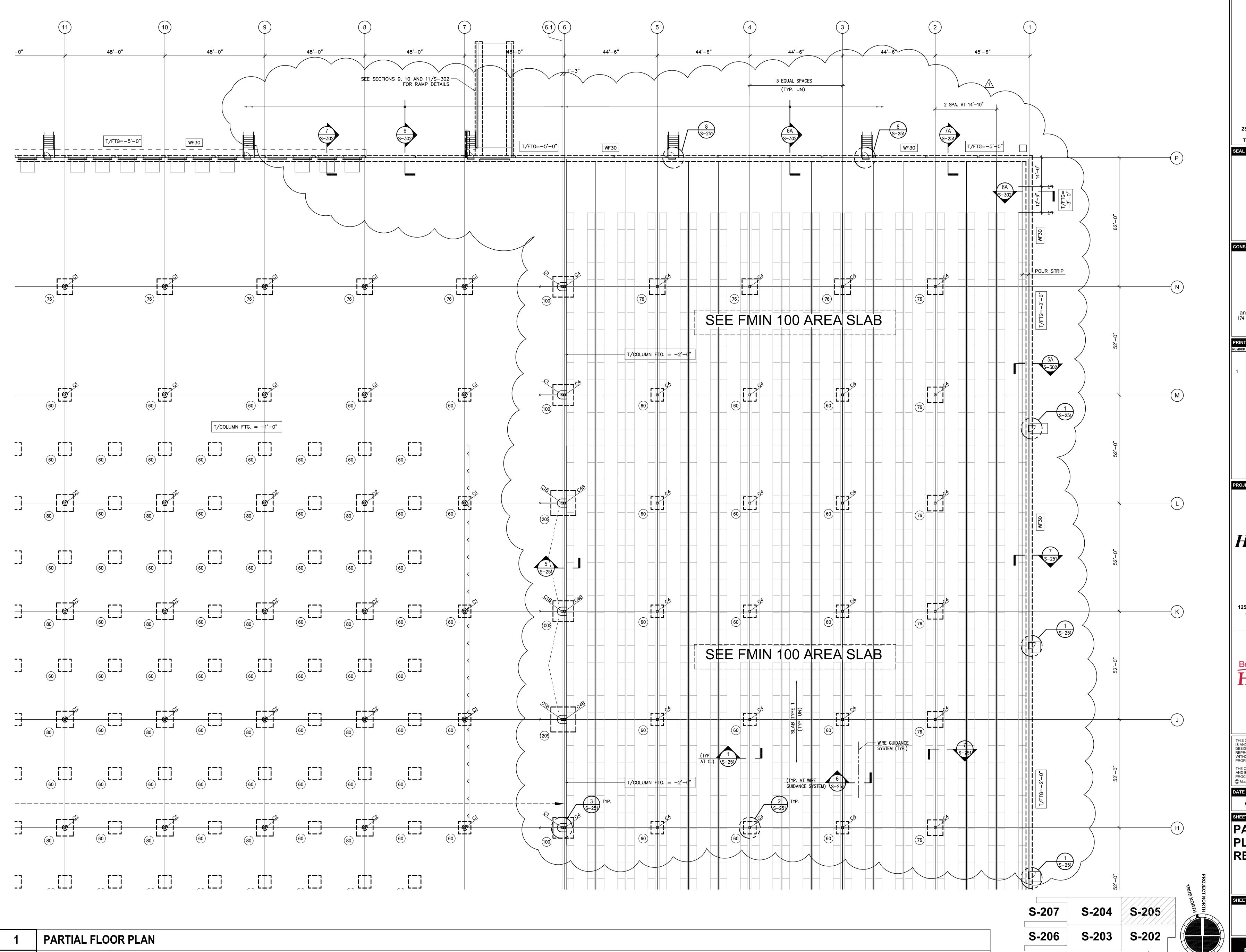


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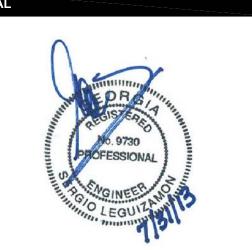
PARTIAL FLOOR PLAN - MAIN OFFCIE RECEIVING

**S-202** 



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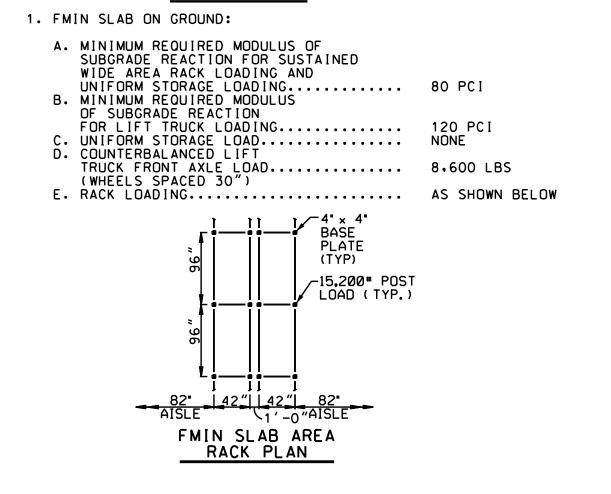
SHEET TITLE PARTIAL FLOOR

PLAN -RECEIVING

**S-205** 

FOR CONSTRUCTION

1/16" = 1'-0"



DESIGN CRITERIA

### GENERAL NOTES

- INDUSTRY STANDARDS GOVERNING THIS WORK ARE OF THE LATEST ISSUE AT THE DATE OF THIS DRAWING RELEASE AS SHOWN BELOW.
- 2. ENSURE STORAGE, HANDLING, PREPARATION, INSTALLATION, ETC. OF ALL MATERIALS ARE IN ACCORDANCE WITH MANUFACTURER'S / VENDOR'S PRINTED RECOMMENDATIONS AND INSTRUCTIONS, UNLESS NOTED OTHERWISE ON THE DRAWINGS OR SPECIFICATIONS.

### SUBGRADE AND BASE PREPARATION AND TESTING

- 1. THE SITE TO BE PREPARED IN ACCORDANCE WITH THE GEOTECHNICAL REPORT BY S&ME. INC. DATED 23MAY13 INCLUDING THE SUPPLEMENTAL SURCHARGE RECOMMENDATIONS DATED 09JUL13
- ENSURE TESTING AGENCY VERIFIES THE SUBGRADE IS COMPACTED TO THE SPECIFIED MAXIMUM DRY DENSITY AS DETERMINED BY THE GEOTECHNICAL ENGINEER. RECOMPACT SOFT AREAS AS DIRECTED BY THE GEOTECHNICAL ENGINEER. TESTING AGENCY TO PROVIDE REPORT TO THE OWNER'S REPRESENTATIVE.
- ENSURE TESTING AGENCY EVALUATES THE SUBGRADE BY PROOF-ROLLING.
  REPAIR SOFT AREAS AS DIRECTED BY THE TESTING AGENCY. TESTING AGENCY
  TO PROVIDE A LETTER REPORT TO THE OWNER'S REPRESENTATIVE STATING THE SUBGRADE IS ACCEPTABLE.
- 4. ENSURE TESTING AGENCY VERIFIES BASE IS COMPACTED TO THE SPECIFIED MAXIMUM DRY DENSITY AS DETERMINED BY THE GEOTECHNICAL ENGINEER IMMEDIATELY PRIOR TO PLACING SLAB. TESTING AGENCY TO PROVIDE REPORT TO OWNER'S REPRESENTATIVE STATING THE BASE IS ACCEPTABLE.
- ENSURE TESTING AGENCY EVALUATES THE BASE BY PROOF-ROLLING IMMEDIATELY PRIOR TO PLACING THE CONCRETE SLAB. REPAIR SOFT AREAS AS DIRECTED BY THE TESTING AGENCY. TESTING AGENCY TO PROVIDE A LETTER TO THE OWNER'S REPRESENTATIVE STATING THE SUBGRADE AND BASE IS
- 6. NOTIFY THE OWNER'S REPRESENTATIVE IMMEDIATELY IF UNUSUAL SOIL CONDITIONS ARE FOUND.
- PROTECT EXISTING STRUCTURES, UTILITIES, PROPERTY, ETC. RESTORE ALL ITEMS DAMAGED, AS REQUIRED BY OWNER, AT NO COST TO OWNER OR WITHOUT EXTENSION OF CONTRACT TIME.
- DO NOT ALLOW STORED EXCAVATION MATERIAL TO DISRUPT PROPER DRAINAGE OF AREA, DAMAGE TO SURROUNDING AREAS, OR STAIN ADJACENT CONCRETE.
- 9. DISPOSE OF EXCAVATED MATERIAL AS REQUIRED BY OWNER'S REPRESENTATIVE.

## PORTLAND CEMENT CONCRETE FOR FMIN INTERIOR SLABS

- CONFORM TO ACI 318 FOR THE DESIGN AND PLACEMENT OF CONCRETE. REINFORCING, AND RELATED ITEMS.
- 2. MEASURE AND MIX CONCRETE IN ACCORDANCE WITH ACI 211.1. USE MINIMUM CEMENTITIOUS MATERIAL CONTENT OF 517 POUNDS PER CUBIC YARD. USE SLUMP OF FIVE INCHES (+1/2 INCH, -ONE INCH).
- PROVIDE A MINIMUM CEMENTITIOUS CONTENT IN ACCORDANCE WITH ACI 302.1R AND A MAXIMUM WATER/ CEMENTITIOUS RATIO OF 0.55.
- 4. MIX AND TRANSPORT READY-MIXED CONCRETE IN ACCORDANCE WITH ASTM
- C94. EXCEPT REDUCE ALLOWABLE MIXING AND DELIVERY TIME FROM 90 MINUTES TO 75 MINUTES WHEN AIR TEMPERATURE IS BETWEEN 85F AND 90F. AND REDUCE ALLOWABLE MIXING AND DELIVERY TIME TO 60 MINUTES WHEN AIR TEMPERATURE OVER 90F. THIS MAY BE WAIVED IF OWNER'S REPRESENTATIVE ALLOWS A
- PROVIDE A MINIMUM CONCRETE COMPRESSIVE STRENGTH OF 3.500 PSI AT 28 DAYS AND 4.000 PSI AT 56 DAYS.
- SUBMIT FOR REVIEW MIX DESIGNS AND TEST RESULTS FOR COMPRESSIVE STRENGTH. SLUMP. AND AIR CONTENT FOR EACH TYPE OF CONCRETE TO BE USED. INCLUDE STANDARD DEVIATIONS AND AVERAGE COMPRESSIVE STRENGTHS FOR FIELD DATA. INCLUDE BRAND NAME AND CHEMICAL COMPOSITION OF ALL ADMIXTURES. INCLUDE AGGREGATE TYPE, SOURCE, AND AGGREGATE GRADATION WITH PERCENT PASSING ON EACH SIEVE FOR EACH AGGREGATE SIZE GROUP WITH NO SIEVE SKIPPED AND TOTAL COMBINED FOR ALL SIZE GROUPS. SUBMIT 14 DAYS MINIMUM PRIOR TO USE.

### 7. CONFORM TO THE FOLLOWING: A. CEMENT: ASTM C 150.

TAPE TWO INCHES WIDE MIN.

- 1. TYPE I-II. II. V. II-V OR TYPE I CEMENT WITH MAXIMUM C3A CONTENT
- B. AGGREGATES:
- 1. ASTM C33. SUBJECT TO SEVERE WEATHERING AND ABRASION. SURFACE APPEARANCE IS IMPORTANT.
- 2. OF TOTAL COMBINED COARSE AND FINE AGGREGATES PER MIX DESIGN, DO NOT ALLOW MATERIAL RETAINED ON ANY ONE SIEVE TO BE LESS THAN 6% NOR MORE THAN 24% OF TOTAL BY WEIGHT, EXCEPT: (1) LARGEST COARSE AGGREGATE SIZE TO BE #4 STONE. RETAIN 1% TO 8% OF TOTAL COMBINED AGGREGATES PER MIX DESIGN ON LARGEST SIEVE WITH RETAINED AGGREGATE. (2) NO. 30 AND 50 SIEVES TO BE 6% TO 15%. (3) PERCENT PASSING NO. 50 SIEVE TO BE 3% TO 7%.
- 3. GRADATION REQUIREMENTS OF ASTM C33 MAY BE WAIVED. IF ALLOWED BY OWNER'S REPRESENTATIVE, IN ORDER TO MEET RANGES NOTED ABOVE.
- WATER: CLEAN AND POTABLE. WATER-REDUCER: ASTM C 494, TYPE A, OR D IF ALLOWED. NON-CHLORIDE
- RETARDER: ASTM C 494, TYPE B OR D. ACCELERATOR: ASTM C 494, TYPE C OR E. NON-CHLORIDE.
- FLY ASH: NOT PERMITTED. SLAG: NOT PERMITTED.
- COARSE AGGREGATE BASE: CRUSHER RUN WITH ROCK FINES. USE ASTM D 448. NO. 467. 57 OR 67 BLEND ONLY IF NOTED OR ALLOWED. FINE AGGREGATE BASE: CLEAN SCREENINGS ASTM D 448, NO. 10 WITH 67
- TO 12% PASSING NO. 200 SIEVE. COMPACT WITH A MINIMUM OF TWO PASSES WITH A VIBRATORY PLATE COMPACTOR. K. VAPOR RETARDER: "STEGO WRAP 10 MIL CLASS A" BY STEGO INDUSTRIES.
  "GRIFFOLYN 10 MIL GREEN" BY REEF INDUSTRIES. OR "PERMINATOR 10 MIL BY
  W. R. MEADOWS". LAP SIX INCHES. SEAL LAPS. PENETRATIONS AND PUNCTURES WITH COMPATIBLE PRESSURE SENSITIVE. WATERPROOF ADHESIVE
- TAPE IWU INCHES WIDE MIN.

  POLY SLIP SHEETS ON ROLL: 6 MIL POLYETHYLENE SHEETS TO BE INSTALLED BELOW VAPOR RETARDER. LAP BOTH SHEETS SIX INCHES AND LAPS NOT REQUIRED TO BE TAPED. DO NOT USE FOLDED SHEETS.

  ELASTOMERIC JOINT SEALANT: FEDERAL SPECIFICATION TT-S-00230C.

  CLASS A. ONE PART. COLD APPLIED. POURABLE OR GUN GRADE AS APPLICABLE. POLYURETHANE BASE. MATCH COLOR OF JOINT FILLER.
- PAVEMENT SEALANT: DOW 888 BY DOW CORNING.
  JOINT BACK-UP MATERIAL: POLYETHYLENE FOAM, CLOSED CELL. USE WITH
- ELASTOMERIC JOINT SEALANT AND PAVEMENT SEALANT ONLY.
  FOAM PLANK: "EXPANSION-JOINT FILLER" BY SONNEBORN, "DECK-O-FOAM" BY W. R. MEADOWS, OR "CERAMAR" BY W. R. MEADOWS. USE FULL DEPTH OF
- EVAPORATION RETARDANT: "EUCO-BAR" BY EUCLID OR "CONFILM" BY MASTER BUILDERS. HAVE AVAILABLE ON-SITE.

  JOINT FILLER: "EUCO 700" BY EUCLID CHEMICAL CORP. OR "MM-80" BY METZGER/MCGUIRE CO. USE GUN GRADE ONLY. NOT PUMP GRADE. AND WITH A MINIMUM SHORE A OF 95 AT 70F. MATCH COLOR OF CONCRETE FLOOR SURFACE.
- SLAB VERTICAL EDGE LIQUID CURING AND SEALING COMPOUND: ASTM C1315.

  TYPE I. CLASS A. B OR C. T. SLAB ON GROUND DOWELS: 1. SQUARE BARS
- a. ASTM A36 MINIMUM WITH DOWEL CLIPS BY PNA, SQUARE BARS ARE TO BE INSTALLED USING DOWEL ALIGNERS BY PNA.
  REBAR SUPPORT DEVICES: CRSI MANUAL OF STANDARD PRACTICE. 8. DO\_NOT USE MANUFACTURED SAND EXCEPT AS A BLEND WITH NATURAL SAND

AND/OR AS ALLOWED BY OWNER'S REPRESENTATIVE.

- 9. DO NOT USE CALCIUM CHLORIDE AS PART OF ADMIXTURE OR BY ITSELF.
- 10. BASE MATERIAL INSTALLATION
- A. COMPACT COARSE AGGREGATE BASE TO FINAL THICKNESS SHOWN IN LAYERS NOT EXCEEDING 6 INCHES, WITH MINIMUM OF 2 PASSES PER LAYER WITH A
- VIBRATORY COMPACTOR. COMPACT BASE TO THE SPECIFIED MAXIMUM DRY DENSITY AS DETERMINED BY
- THE GEOTECHNICAL ENGINEER.
- THE GEOTECHNICAL ENGINEER.

  CHOKE-OFF TOP SURFACE OF COARSE AGGREGATE BASE WITH FINE AGGREGATE

  BASE MATERIAL DUE TO THE FOLLOWING:

  1. AS REQUIRED TO MEET FINE GRADE ELEVATION TOLERANCES SPECIFIED.

  2. WHERE COARSE AGGREGATE BASE MATERIAL DOES NOT HAVE SUFFICIENT FINE
  PARTICLES TO PRODUCE A SURFACE THAT IS FREE OF EXPOSED AGGREGATE OR
  SURFACE VOIDS IMMEDIATELY PRIOR TO SLAB INSTALLATION.

  COMPACT FINE AGGREGATE BASE CHOKE-OFF LAYER WITH A MINIMUM OF 2
  PASSES WITH A VIBRATORY COMPACTOR
- PASSES WITH A VIBRATORY COMPACTOR
  TOP SURFACE OF BASE MATERIAL TO BE DRY, SMOOTH, FLAT, DENSE SURFACE IMMEDIATELY BEFORE PLACING CONCRETE.
- 11. ENSURE REINFORCING BARS CONFORM TO ASTM A615 GRADE 60. DEFORMED.
- 12. PROVIDE CLASS B TENSION LAP SPLICES PER ACI 318 AND ACI SP-66. FOR CONCRETE STRENGTH AND BAR LOCATIONS NOTED. ENSURE ALL SPLICES DETAILED BY THE FABRICATOR ARE THE RESPONSIBILITY OF THE FABRICATOR. REVIEW BY ENGINEER OF SHOP DRAWINGS IS ONLY FOR GENERAL CONFORMANCE WITH DESIGN CONCEPT OF THE PROJECT AND GENERAL COMPLIANCE WITH INFORMATION GIVEN IN THE CONTRACT DOCUMENTS.
- 13. PROVIDE DIAGONAL BARS 4'-0" LONG AT ALL REENTRANT CORNERS AS FOLLOWS AND LOCATED WITH 1" COVER FROM CLOSEST FACE AND ADJACENT HORIZONTAL BAR:

A. TWO NO. 4 BARS TOP AND TWO NO. 4 BOTTOM IN ALL SLABS.

- 14. MAINTAIN FULL THICKNESS FOR DEPRESSED OR SLOPED SLABS, UNLESS NOTED OTHERWISE.
- 15. CHAMFER ALL EXPOSED CORNERS OF CONCRETE WITH 3/4 INCH BY 45

DEGREE CHAMFER. UNLESS NOTED OTHERWISE.

- 16. ENSURE SUBGRADE AND BASE WATER CONTENT AT TIME OF CONCRETE PLACEMENT DOES NOT EXCEED THE WATER CONTENT REQUIRED FOR THE SPECIFIED MAXIMUM DRY DENSITY COMPACTION. THE TOP 2" OF BASE MATERIAL IS TO BE SURFACE DRY. BASE MAY BE DAMPENED WHEN INSTALLING
- 17. CONFORM TO ACI 306R FOR COLD WEATHER CONCRETING AND ACI 305R WHEN ANY COMBINATION OF HIGH TEMPERATURE, LOW RELATIVE HUMIDITY, AND WIND VELOCITY TEND TO IMPAIR THE QUALITY OF THE CONCRETE. REJECT CONCRETE IF ITS TEMPERATURE AT TIME OF PLACEMENT IS 90 DEG. F OR ABOVE. PROTECT SURFACES OF EXPOSED CONCRETE FROM PRECIPITATION DAMAGE UNTIL ADEQUATE STRENGTH IS GAINED TO PREVENT DAMAGE.
- 18. CONFORM TO ACI 302.1R. 304R. 308. 309R AND 347R FOR CONCRETE. FORM WORK, CURING. AND RELATED ITEMS. CONFORM TO CRSI MANUAL OF STANDARD PRACTICE AND CRSI PLACING REINFORCING BARS FOR PLACING REINFORCING. "LASER-FORM" BY GREENSTREAK NOT PERMITTED.
- 19. PROVIDE THE FOLLOWING STANDARD FINISHES FOR CONCRETE WORK: SURFACES NOT EXPOSED TO VIEW
- VERTICAL SURFACES EXPOSED TO
- AFTER CONSTRUCTION:..... POINT ALL CAVITIES AND HONEY-COMBING. VIEW AFTER CONSTRUCTION:..... POINT WITH MORTAR AND RUB SMOOTH, OR USE
- ACCEPTABLE PROPRIETARY PATCHING COMPOUND. INTERIOR FLOOR SLABS:.... SMOOTH, UNIFORM, HARD STEEL TROWEL, UNLESS NOTED OTHERWISE ON DRAWINGS
- 20. DO NOT ADD WATER OR PLAIN CEMENT TO ANY SLAB SURFACE DURING
- FINISHING OPERATIONS. 21. PERFORM NO FINISHING OPERATION WHILE WATER IS PRESENT ON SLAB
- 22. IF SLAB SURFACE IS FIRM ENOUGH FOR FLOATING, BUT BLEED WATER IS STILL PRESENT, THE WATER MAY BE REMOVED BY ONE OF THE FOLLOWING
- METHODS: A. FANS OR BLOWER HEATERS.

  B. IF CONCRETE SURFACE IS STIFF ENOUGH TO NOT BE DAMAGED. A RUBBER HOSE MAY BE DRAGGED SLOWLY OVER THE SURFACE ONE TIME.
- 23. FOR TOLERANCES CONFORM TO ACI 117 AND ACI 347R, EXCEPT AS NOTED
- SLAB ON GROUND BASE FINE GRADE: +0, -3/4 INCH.
  MINIMUM SLAB ON GROUND THICKNESS TOLERANCE: -3/4 INCH.
  AVERAGE SLAB ON GROUND THICKNESS TOLERANCE: -0.
- 24. SEE PROJECT SPECIFICATIONS FOR CURING/DENSIFIER APPLICATION REQUIREMENTS WITH APPROVED MATERIAL AND APPLICATOR. CLEANING REQUIREMENTS AND PROTECTION OF SLAB SURFACE.
- 25. WHERE NOTED ON DRAWINGS FOR SLABS ON GROUND, USE JOINT FILLER IN CONSTRUCTION JOINTS THAT ARE REQUIRED TO HAVE FILLER, AND USE ELASTOMERIC JOINT SEALANT IN ISOLATION JOINTS. COMMENCE SEALING JOINTS WHEN ALL CONSTRUCTION IS NEARING COMPLETION, BUT IN NO CASE SOONER THAN AS ALLOWED BY THE MANUFACTURER. DO NOT USE JOINT BACK-UP MATERIAL (I.E., BACKER ROD, SAND, ETC.), EXCEPT BELOW BOTTOM OF SAWCUT IN CONSTRUCTION JOINTS AND IN ISOLATION JOINTS. COMPLETELY FILL JOINTS IN TWO PASSES, IF NEEDED, TO PRODUCE A SLIGHT CROWN. REMOVE EXCESS FILLER FROM EXPOSED CONCRETE SURFACE PRIOR TO FINAL SETTING. ADD EXTRA FILLER PRIOR TO SETTING IF NEEDED TO PREVENT DEPRESSED AREAS. PROVIDE CURED FILLER FLUSH WITH FINISHED CONCRETE SURFACE BY RAZORING OFF CROWN. COME BACK JUST BEFORE END OF WARRANTY PERIOD. OR AS DIRECTED BY OWNER'S REPRESENTATIVE TO REFILL JOINTS.
- 26. REFER TO ARCHITECTURAL, MECHANICAL, ELECTRICAL, PROCESS, CIVIL, AND VENDOR'S DRAWINGS FOR EMBEDDED ITEMS NOT SHOWN. COORDINATE AND PLACE ALL EMBEDDED ITEMS SHOWN ON THE DRAWINGS OR REQUIRED BY ALL
- 27. PRE-CONSTRUCTION MEETINGS:
- A. ATTEND PRE-CONSTRUCTION MEETING TO BE SCHEDULED AT LEAST 7 DAYS BEFORE STARTING MAIN CONCRETE SLAB PLACEMENT. B. ATTENDANCE DESIGNATED BY OWNER'S REPRESENTATIVE AND THE FOLLOWING: SSI PERSONNEL. TESTING AGENCY. CONTRACTOR. CONCRETE SUPPLIER (INCLUDING QUALITY CONTROL PERSONNEL), AND SUBCONTRACTORS FOR SUBGRADE AND BASE PREPARATION, REINFORCEMENT, PUMPING OR OTHER MEANS
- OF CONVEYING, PLACEMENT, FINISHING, SAWING, FORMWORK, POST-TENSION SUPPLIER/INSTALLER, DRY SHAKE FLOOR HARDENER SUPPLIER REPRESENTATIVE, AND OTHER PERTINENT PORTIONS OF WORK. C. REPRESENTATIVES ARE TO BE PERSONNEL WHO ARE DIRECTLY INVOLVED IN PROJECT AND WHO HAVE AUTHORITY TO CONTROL WORK.

# STRUCTURAL TESTS AND SPECIAL INSPECTIONS REQUIREMENTS

- 1. THE TESTS NOTED ON THE DRAWINGS ARE ADDITIONAL TESTS AND ARE NOT TO BE USED TO REPLACE THE QUALITY ASSURANCE PROGRAM FOR THE WORK.
- 2. THE TESTS NOTED ON THE DRAWINGS ARE NOT APPLICABLE TO TEMPORARY OR INCIDENTAL STRUCTURES USED TO BUILD THE PROJECT.
- 3. ASSIST TESTING AGENCY IN CONDUCTING TESTS AND PROVIDE ACCESS TO SITE AND MATERIALS.

### STRUCTURAL TESTS AND SPECIAL INSPECTIONS REQUIREMENTS FOR FMIN INTERIOR CONCRETE SLAB ON GROUND

## 1. GENERAL:

- IN PUBLICATIONS REFERRED TO HEREIN, ADVISORY PROVISIONS ARE CONSIDERED TO BE MANDATORY: FOR EXAMPLE, SUBSTITUTE THE WORD "SHALL" "SHOULD" WHENEVER IT APPEARS.
- B. ENSURE PARTS OF STRUCTURE THAT FAIL TESTING ARE CORRECTED AS DIRECTED BY OWNER'S REPRESENTATIVE AT NO ADDITIONAL COST AND WITHOUT
- TESTS AND INSPECTIONS NOTED IN TABLE C1 ARE TO BE DONE BY THE TESTING AGENCY SAME, INC. THE TESTING AGENCY SHALL KEEP RECORDS OF THE TESTING AND INSPECTIONS.
- 2. LABORATORY TESTING REQUIREMENTS: A. PROPORTION CONCRETE MATERIALS ON BASIS OF FIELD EXPERIENCE OR BY LABORATORY TRIAL BATCHES IN ACCORDANCE WITH ACI 318.
- B. READY-MIX CONCRETE SUPPLIER CAN PROPORTION MATERIALS BY FIELD EXPERIENCE, PER ACI 318.
- C. PROPORTIONING BY WATER-CEMENT RATIO, PER ACI 318, IS NOT ACCEPTABLE. D. SUBMIT TO OWNER'S REPRESENTATIVE FOR REVIEW COPIES OF DATA AND TEST RESULTS TO SUBSTANTIATE MIX DESIGNS.
- E. AS DIRECTED BY OWNER'S REPRESENTATIVE, TEST ITEMS SUCH AS REINFORCING STEEL, AGGREGATES, AND OTHER PRODUCTS SUSPECTED OF NOT MEETING SPECIFIED REQUIREMENTS TO VERIFY COMPLIANCE. PROVIDE TEST REPORT TO OWNER'S REPRESENTATIVE.
- F. PAY FOR COST OF LABORATORY TESTING.
- 3. FIELD TESTING: A. PERFORM TESTS NOTED IN TABLE C1 AND PROVIDE TEST REPORTS WITH LOCATION OF EACH PLACEMENT REPRESENTED TO THE BUILDING OFFICIAL AND THE OWNER'S REPRESENTATIVE.
- B. PERFORM SLUMP AND TEMPERATURE TESTS FOR FIRST TRUCK LOAD OF CONCRETE AND EVERY SIXTH TRUCK MINIMUM THEREAFTER. PROVIDE TEST REPORTS TO OWNER'S REPRESENTATIVE AND OTHER INVOLVED PARTIES.
- FOR TROWELED FINISH SLABS, PERFORM AIR TEST FOR FIRST TRUCK AND EVERY SIXTH TRUCK MINIMUM THEREAFTER. REJECT CONCRETE IF AIR CONTENT IS OVER 3.0%. PROVIDE TEST REPORTS TO OWNER'S REPRESENTATIVE AND
- D. WHEN MID-RANGE OR HIGH-RANGE WATER-REDUCING ADMIXTURE IS ADDED ON-SITE TO PRODUCE SLUMPS IN EXCESS OF THAT FOR CONCRETE WITHOUT NOTED ADMIXTURE, TAKE ADDITIONAL SLUMP TESTS AS FOLLOWS AND PROVIDE TEST REPORTS TO OWNER'S REPRESENTATIVE AND OTHER INVOLVED PARTIES:
- TAKE 1 FROM FIRST BATCH BEFORE ADMIXTURE IS ADDED.
   TAKE 1 FROM FIRST BATCH AFTER THE ADMIXTURE IS ADDED AND MIXER HAS REVOLVED NUMBER OF TURNS RECOMMENDED BY ADMIXTURE MANUFACTURER.
   AFTER FIRST BATCH, TAKE 1 FROM EVERY SIXTH BATCH MINIMUM BEFORE
- ADMIXTURE IS ADDED. WHEN PUMPING CONCRETE, TAKE SAMPLES FOR TESTS AT POINT OF PLACEMENT AT END OF PUMPING LINE, IN ADDITION TO FIRST SLUMP TEST NOTED ABOVE FOR CONCRETE WITH MID-RANGE OR HIGH-RANGE WATER-REDUCER, PROVIDE TEST REPORT TO OWNER'S REPRESENTATIVE AND OTHER INVOLVED
- F. PERFORM ADDITIONAL TESTING FOR CONCRETE USED IN SLABS AS FOLLOWS AND PROVIDE TEST REPORT TO OWNER'S REPRESENTATIVE:
- G. TEST FLOOR SLAB FINISHED SURFACES FOR FLATNESS AND LEVELNESS.
- 1. TEST DEFINED TRAFFIC AREAS, AS SHOWN ON DRAWINGS:
  G. FMIN REQUIREMENTS: FMIN=100, AT LOCATIONS IN PATH OF FUTURE LIFT TRUCK WHEEL TRACKS AND OVER TRUCK WHEEL BASE DIMENSIONS.
  - REMEDIES FOR OUT-OF-TOLERANCE WORK:

    1) IF FMIN IS GREATER THAN OR EQUAL TO 70, THEN GRINDING IS PERMITTED TO BRING SLAB SURFACE TO A FMIN=100. IF SLAB SURFACE IS LESS THAN FMIN=70, THEN REMOVE AND REPLACE SLAB AS DIRECTED BT THE OWNER S REPRESENTATIVE.
  - 2) FILLING OF LOW SPOTS NOT PERMITTED.
- c. ENSURE TOP OF ENTIRE FLOOR FALLS WITHIN + OR 3/4 OF AN INCH OF FINISHED FLOOR ELEVATION INDICATED ON DRAWINGS.
- 2. PAY FOR COSTS FOR CORRECTIVE WORK AND EXTRA TESTING REQUIRED BY DEFECTIVE WORK.

  COMPLETE TESTING, IDENTIFY DEFECTIVE AREAS, AND GIVE VERBAL REPORT TO OWNER'S REPRESENTATIVE AND OTHER PARTIES CONCERNED AS SOON AS POSSIBLE BUT WITHIN 24 HOURS AFTER PLACEMENT.
- SUBMIT WRITTEN REPORT BY ELECTRONIC MEANS OR HAND DELIVER TO PARTIES CONCERNED AS SOON AS POSSIBLE BUT WITHIN 36 HOURS. OR NEXT REGULARLY SCHEDULED WORKING DAY. AFTER PLACEMENT. INCLUDE COSTS FOR RETESTING REPLACED OR REPAIRED DEFECTIVE AREAS.

H. FIELD TESTING TO BE PAID FOR BY OWNER

TABLE C1					
DESCRIPTION OF VERIFICATION AND INSPECTION WORK	INSPECTION FREQUENCY	REFERENCED STANDARD			
1. INSPECTION OF REINFORCING STEEL AND PLACEMENT.	PERIODIC	ACI 318: CH 3.5, 7.1-7.7			
2. VERIFYING USE OF APPROVED DESIGN MIX	PERIODIC	ACI 318: CH. 4, 5.2-5.4			
MATERIALS FOR COMPRESSIVE STRENGTH, AIR CONTENT, TEMPERATURE, AND SLUMP IN ACCORDANCE WITH ASTM C31 AND C39. FREQUENCY OF TESTING TO BE AS FOLLOWS:  A. ONCE EACH DAY A GIVEN CLASS IS PLACED, NOR LESS THAN  B. ONCE FOR EACH 100 CUBIC YARDS OF EACH CLASS PLACED EACH DAY, NOR LESS THAN  C. ONCE FOR EACH 5000 SQUARE FEET OF EACH CLASS FOR SLABS OR PAVEMENT SURFACE AREA PLACED EACH DAY. IN CALCULATING SURFACE AREA, ONLY ONE SIDE OF THE SLAB IS TO BE CONSIDERED.  D. WHEN SPECIFIED SCHEDULE OF TESTING PROVIDES LESS THAN 5 SETS OF TESTS FOR A GIVEN CLASS OF CONCRETE FOR ALL PLACEMENTS, TEST AT LEAST 5 RANDOMLY SELECTED BATCHES; IF FEWER THAN 5 BATCHES ARE USED, TEST EACH BATCH.  E. INCLUDE TEST 6" X 12" CYLINDERS FOR EACH COMPRESSIVE STRENGTH TEST TO BE TESTED AS FOLLOWS: 1. FOR 28 DAY DESIGN AGE STRENGTH: 1 AT 7 DAYS, 2 AT 28 DAYS, 1 RESERVE. 2. FOR 56 DAYS, 1 RESERVE.	CONTINUOUS	ASTM C 172 ASTM C 31, C39 ACI 318: CH 5.6, 5.8			
6. INSPECTION OF CONCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	CONTINUOUS	ACI 318: CH 5.9, 5.10			
7. INSPECTION FOR MAINTENANCE OF SPECIFIED CURING	PERTODIC	ACI 318:			

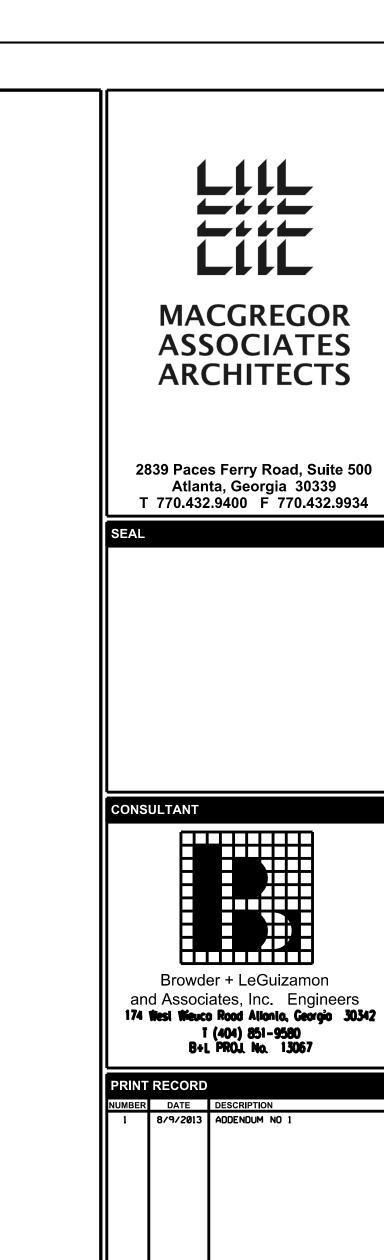
SPECIFIED CURING

TEMPERATURE AND

TECHNIQUES

CH 5.11-5.13

PERIODIC



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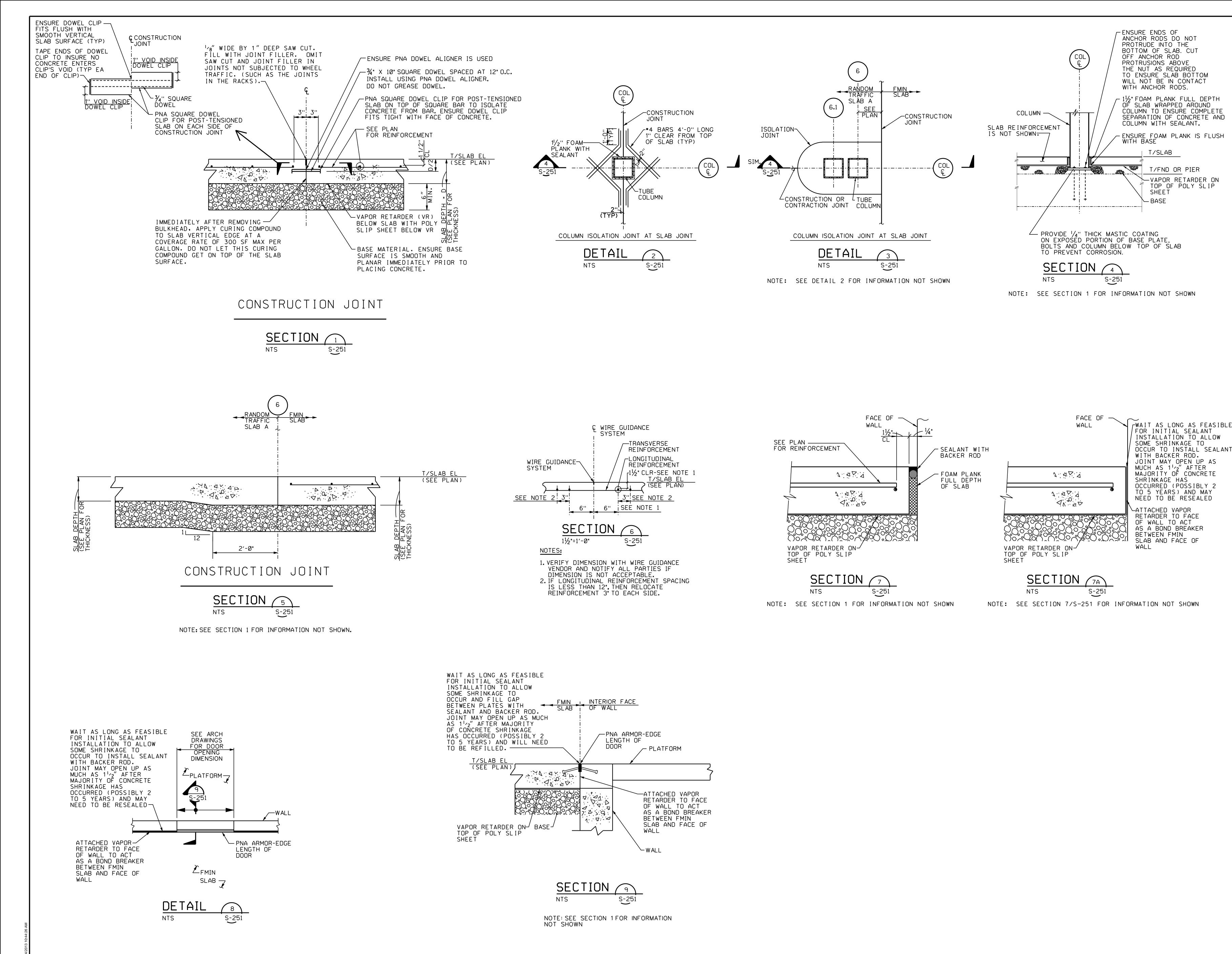
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PROCEEDING WITH EACH PHASE OF HIS WORK. Macgregor Associates Architects, Inc. - 1987-2013

FMIN SLAB **GENERAL NOTES** 

HEET NUMBER



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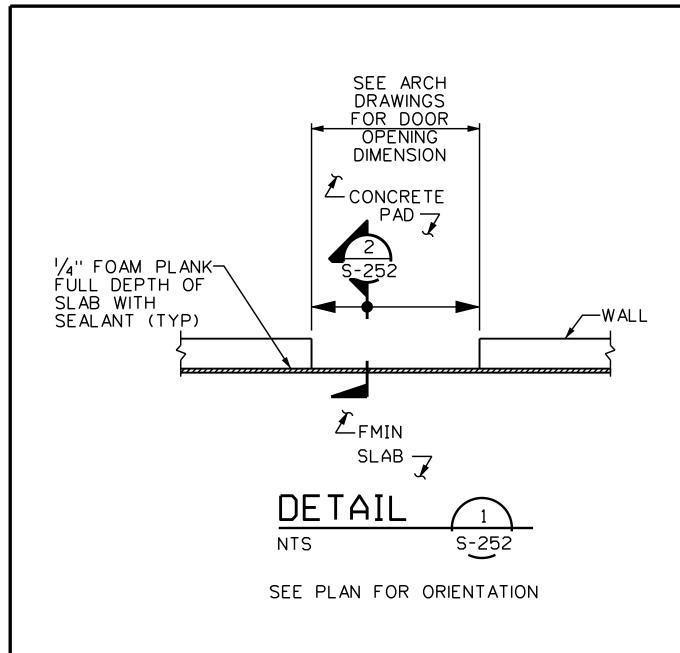
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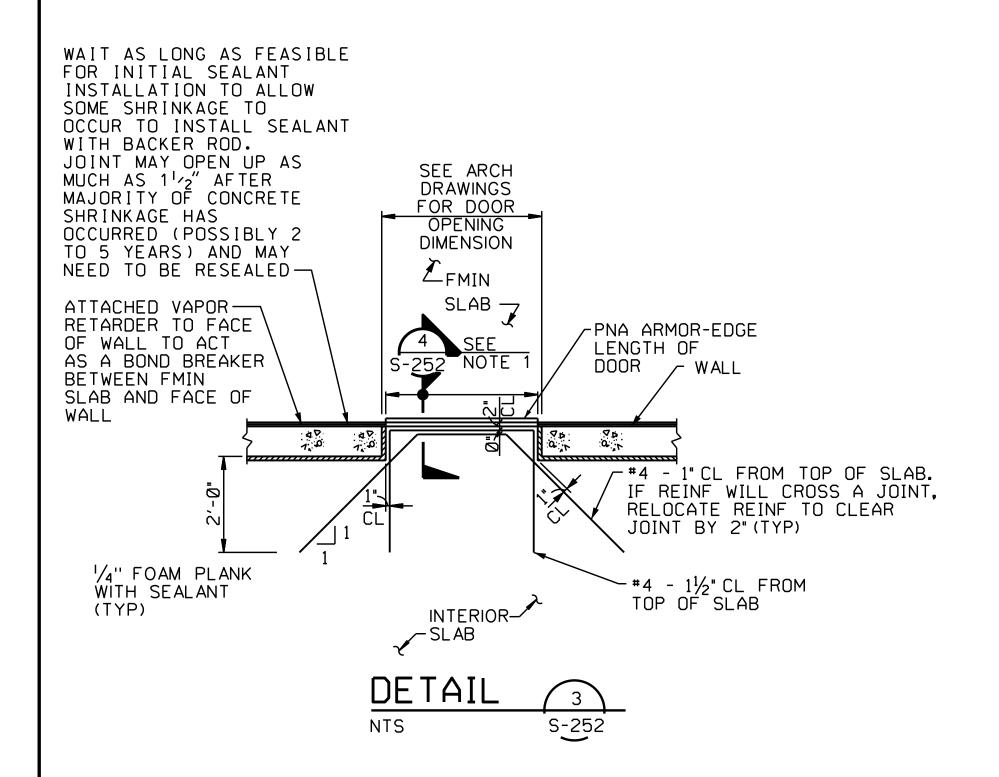
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FMIN SLAB SECTIONS & DETAILS

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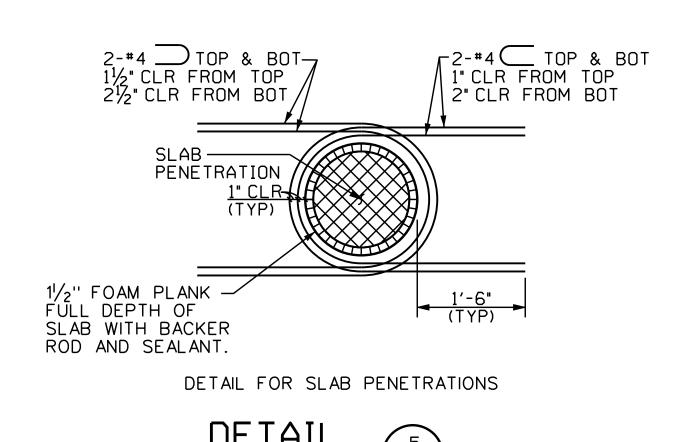
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NOTES:

1. PROVIDE A MINIMUM OF TWO DOWELS EVENLY SPACED ACROSS DOOR.

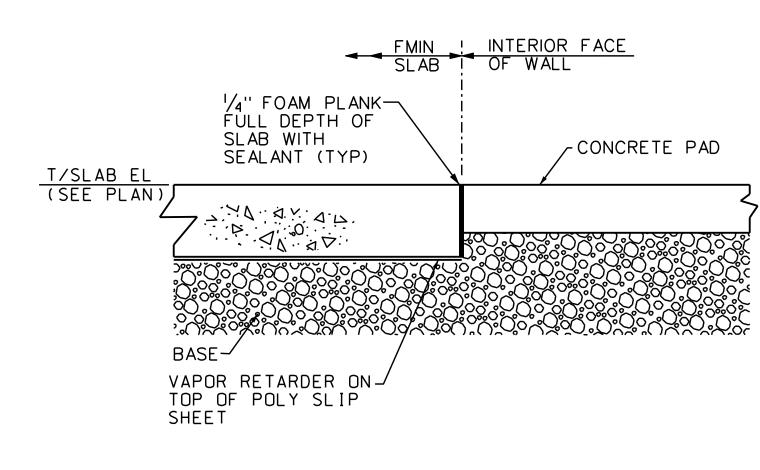


## NOTES:

1. AT FLOOR DRAINS AND CLEAN OUTS, DO NOT WRAP PORTION OF PIPE EMBEDDED IN THE SLAB WITH THE FOAM PLANK. HOWEVER, DO WRAP THE PORTION OF PIPE THREE FEET BELOW THE BOTTOM OF THE SLAB WITH THE FOAM PLANK.

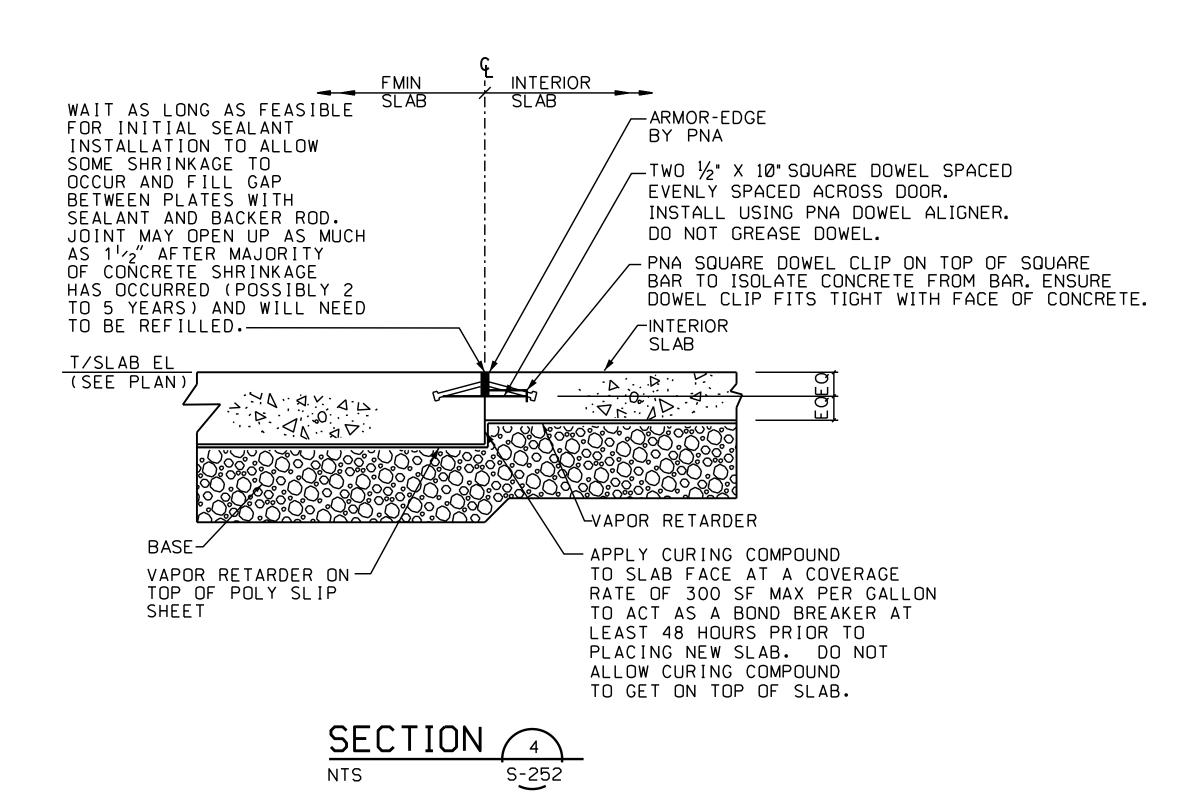
S-252

2. ENSURE THAT THE TYPE OF CLEAN OUTS ARE APPROPRIATE FOR AREAS THAT WILL HAVE LIFT TRUCK TRAFFIC.



SECTION 2 NTS S-252

NOTE: SEE SECTION 1/S-251 FOR INFORMATION NOT SHOWN

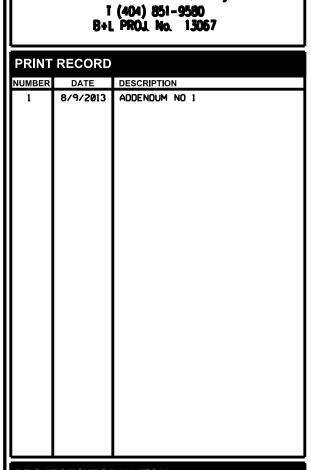


NOTE: SEE SECTION 1/S-251 FOR INFORMATION NOT SHOWN



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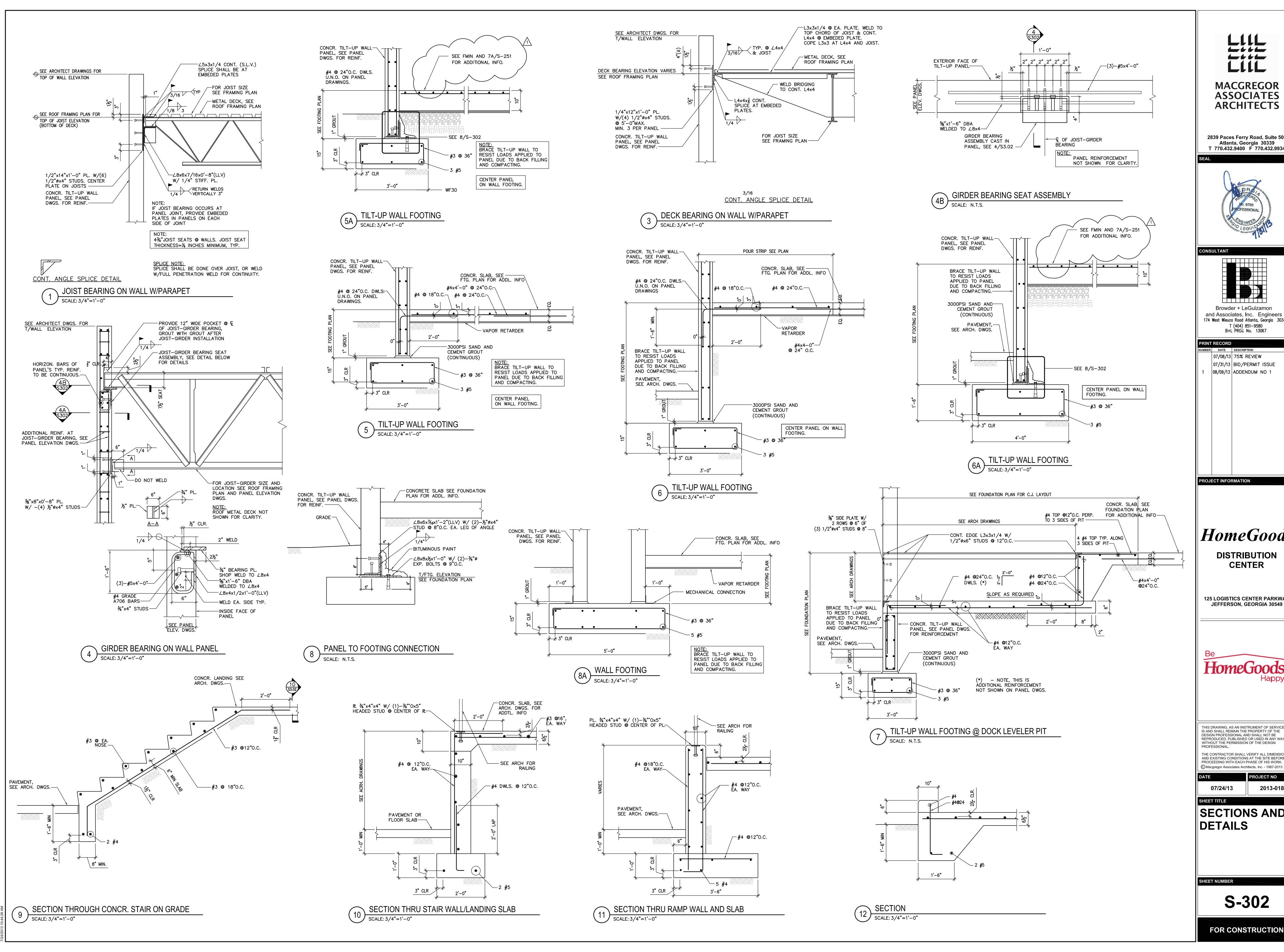
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SECTIONS AND DETAILS

**S-302** 

