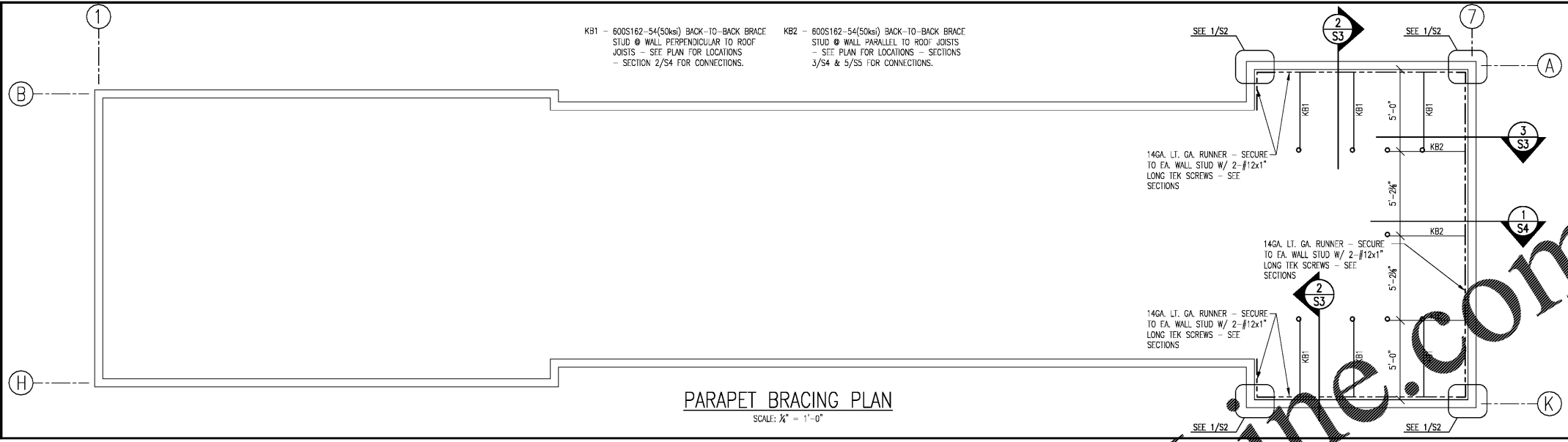


SECTION NO.	DETAIL	SCALE
1	S2	1/2" = 1'-0"



PARAPET BRACING PLAN
SCALE: 1/4" = 1'-0"

MEPC
STRUCTURAL ENGINEERING

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DIVISION 1 - GENERAL REQUIREMENTS

I. GENERAL

A. THE STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE, AND, EXCEPT WHERE SPECIFICALLY SHOWN, DO NOT INDICATE THE METHOD OR MEANS OF CONSTRUCTION. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, PROCEDURES, TECHNIQUES, AND SEQUENCES.

B. THE STRUCTURE HAS BEEN DESIGNED TO RESIST DESIGN LOADS ONLY AS A COMPLETED STRUCTURE. APPLICATIONS OF CONSTRUCTION LOADS TO THE PARTIALLY COMPLETED STRUCTURE SHALL BE CONSIDERED BY THE CONTRACTOR AND SO INCLUDED IN THE DESIGN OF SHORING, BRACING, FORMWORK, AND ANY OTHER SUPPORTING ELEMENTS PROVIDED FOR CONSTRUCTION OF THE STRUCTURE. DURING ERECTION AND UNTIL ALL PERMANENT ARE MADE, THE CONTRACTOR MUST PROVIDE TEMPORARY BRACING FOR THE STRUCTURE IN ALL DIRECTIONS.

C. THE GENERAL CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AND GRADE CONDITIONS (BOTH NEW AND EXISTING), REPORTING ANY DISCREPANCIES TO THE ARCHITECT PRIOR TO ORDERING MATERIALS OR PROCEEDING WITH ANY PHASE OF THE WORK.

D. THE CONTRACTOR SHALL COMPARE STRUCTURAL SECTIONS WITH ARCHITECTURAL SECTIONS AND REPORT ANY DISCREPANCY TO THE ARCHITECT PRIOR TO FABRICATION OR INSTALLATION OF STRUCTURAL MEMBERS.

E. DO NOT SCALE DIMENSIONS FROM DRAWINGS. THE CONTRACTOR SHALL REQUEST, FROM THE ARCHITECT, NECESSARY DIMENSIONS SHOWN ON THE DRAWINGS.

F. WHERE ANY DISCREPANCIES OCCUR BETWEEN PLANS, DETAILS, STRUCTURAL GENERAL NOTES, AND SPECIFICATIONS, THE MORE STRINGENT REQUIREMENTS SHALL GOVERN.

II. CODES, SPECIFICATIONS AND STANDARDS

A. APPLICABLE BUILDING CODE: THE CONTRACT DOCUMENTS ARE BASED ON THE REQUIREMENTS OF THE:

- INTERNATIONAL BUILDING CODE (IBC 2015) WITH 2018 NORTH CAROLINA AMENDMENTS
- BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE (ACI 318-14)
- 2010 SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS (AWS/AISC 360-10)

III. DESIGN LOADS (NBC 2018):

A. FLOOR LIVE LOAD: SECTION 1607.10

- SLAB ON GRADE = 100 PSF

B. ROOF LIVE LOAD: SECTION 1607.12

- ROOF = 20 PSF

C. ROOF SNOW LOAD DATA: SECTION 1608

- FLAT ROOF SNOW LOAD, $P_f = 10$ PSF
- SNOW EXPOSURE FACTOR, $C_e = 0.9$
- SNOW IMPORTANCE FACTOR, $I_s = 1.0$
- ROOF THERMAL FACTOR, $C_t = 1.0$

D. WIND DESIGN DATA: SECTION 1609

- ULTIMATE DESIGN WIND SPEED, $V_{ult} = 150$ MPH
- RISK CATEGORY = II
- WIND EXPOSURE CATEGORY = B
- COMPONENTS & CLADDING DESIGN PRESSURES (C_{fd}):
 - ROOF INTERIOR ZONES = 44 PSF
 - ROOF EDGE ZONES = 51 PSF
 - ROOF CORNER ZONES = 68 PSF
 - WALL INTERIOR ZONES = 41 PSF
 - WALL EDGE ZONES = 50 PSF

E. EARTHQUAKE DESIGN DATA: SECTION 1613

- RISK CATEGORY = II
- SEISMIC IMPORTANCE FACTOR, $I_w = 1.0$
- MAPPED SPECTRAL RESPONSE ACCELERATION PARAMETERS:
 - SHORT PERIOD, $S_s = 0.295$
 - 1 SECOND PERIOD, $S_1 = 0.113$
- SITE CLASS = D
- DESIGN SPECTRAL RESPONSE ACCELERATION PARAMETERS:
 - SHORT PERIOD, $S_{ds} = 0.308$
 - 1 SECOND PERIOD, $S_{d1} = 0.129$
- SEISMIC DESIGN CATEGORY = C
- BASIC SEISMIC FORCE-RESISTING SYSTEM: STEEL SYSTEMS NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE:
 - DESIGN BASE SHEAR:
 - $V_u = 10.7^k$
 - $V_u = 30.5^k$
 - SEISMIC RESPONSE COEFFICIENT, $C_s = 0.1025$
 - RESPONSE MODIFICATION COEFFICIENT, $R = 3$
 - ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE (1613)

IV. SUBMITTALS

A. SHOP DRAWINGS AND SUBMITTALS SHALL BE SUBMITTED TO THE ENGINEER BEFORE BEGINNING CONSTRUCTION.

B. CLEARLY SPECIFY AND DEVIATIONS FROM THE CONTRACT DOCUMENTS ON ALL SUBMITTALS.

C. THE CONTRACTOR SHALL REVIEW EACH SUBMITTAL BEFORE SUBMITTING TO THE ENGINEER.

D. THE FOLLOWING SUBMITTALS ARE RECOMMENDED FOR THIS PROJECT:

- CAST-IN-PLACE CONCRETE

a. COMPLY WITH SUBMITTAL REQUIREMENTS IN ACI 301/318

b. PRODUCT DATA

c. DESIGN MIXTURES (HISTORICAL DATA OR TRIAL BATCH)

d. REBAR SHOP DRAWING

e. SHOP DRAWINGS FOR THE DESIGN, ERECTION, AND REMOVAL OF FORMWORK, SHORES, AND RESHORES APPROVED BY A QUALIFIED PROFESSIONAL ENGINEER WHO APPROVED THE SHOP DRAWINGS.

2. STRUCTURAL STEEL

a. PRODUCT DATA

b. SHOP DRAWINGS

c. WELDING CERTIFICATES

3. CONCRETE MASONRY UNIT ASSEMBLIES

a. PRODUCT DATA

4. COLD-FORMED METAL FRAMING

a. PRODUCT DATA

b. SHOP DRAWINGS. FOR ITEMS NOT DESIGNED BY THE ENGINEER OF RECORD INCLUDE STRUCTURAL CALCULATIONS SIGNED AND SEALED BY A QUALIFIED PROFESSIONAL ENGINEER.

DIVISION 2 - FOUNDATIONS

I. GEOTECHNICAL REPORT - FOUNDATION DESIGN IS BASED ON A PRESUMPTIVE SOIL BEARING CAPACITY OF 2000 PSF (TO BE VERIFIED BY THE GENERAL CONTRACTOR AT THE TIME OF CONSTRUCTION).

II. SOIL EXCAVATION AND REPLACEMENT

A. REMOVE ALL LOOSE FILL MATERIAL WITH DEBRIS EXTENDING 5 FOOT BEYOND BUILDING FOOTPRINT TO THE MORE CONSOLIDATED MATERIAL AS APPROVED BY THE GEOTECHNICAL ENGINEER. REPLACE WITH SELECT FILL MATERIAL IN 8" TO 10" LOOSE LIFTS AS DIRECTED BY GEOTECHNICAL ENGINEER. COMPACT SELECT FILL MATERIAL TO 95% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY ACCORDING TO ASTM D 698.

B. REVIEW SOIL REPORT BORING HOLES FOR INITIAL ESTIMATES OF EXCAVATION DEPTHS. THE GEOTECHNICAL ENGINEER SHALL APPROVE FINAL EXCAVATIONS OF FOOTING AND DRILLED PIER BEARING STRATA.

III. SLAB-ON-GRADE CONSTRUCTION

A. SUBGRADE PREPARATION

- IMMEDIATELY PRIOR TO PLACEMENT OF CRUSHED STONE BELOW SLAB, THE LAST 2" OF SUBGRADE SHOULD BE RECOMPACTED TO 95% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY BY ASTM D698
- PROTECT CONCRETE FROM PHYSICAL DAMAGE OR REDUCED STRENGTH DUE TO WEATHER EXTREMES DURING MIXING, PLACING, AND CURING.
- PROVIDE A 4" MINIMUM LAYER OF CLEAN 1/2" CRUSHED STONE OR FINE GRIT GRANITE BELOW THE SLAB ON GRADE.
- PROVIDE VAPOR BARRIER OF POLYETHYLENE SHEET OVER THE FINAL FILL BELOW THE CONCRETE SLAB.

B. CRANE LOADS - THE CONTRACTOR IS CAUTIONED AGAINST LOADING THE SLAB ON GRADE WITH CRANE LOADS. THE SLAB HAS NOT BEEN DESIGNED FOR CRANE LOADS AND MAY REQUIRE AN INCREASE IN SLAB THICKNESS AND/OR REINFORCEMENT. THE CONTRACTOR IS REQUIRED TO SUBMIT A PROPOSED PLAN IF CRANE SUPPORT IS REQUIRED ON SLAB. THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER FOR REVIEW PRIOR TO COMMENCING WORK.

SPREAD FOOTINGS

A. FOOTING EXCAVATION - FOOTINGS SHALL BE NEAT EXCAVATED WHERE POSSIBLE WITH SIDES AND TOP EDGES FORMED AND BRACED. ALL FOOTINGS WITH FORMED EDGES SHALL BE BACKFILLED WITH LEAN CONCRETE. LOOSE OR WET MATERIALS. WHERE NEAT EXCAVATION IS NOT POSSIBLE, FOOTINGS EXCAVATION SHALL BE BACKFILLED WITH LEAN CONCRETE. CEMENT STABILIZED SAND OR SELECT FILL MATERIAL PLACED IN 8" LIFTS AND COMPACTED TO 95% OF STANDARD PROCTOR MAXIMUM DENSITY OF EACH LIFT. THE BOTTOM EXCAVATION SHALL BE CLEAN AND DRY WITH ALL LOOSE MATERIAL REMOVED FOR AN ESSENTIALLY FLAT BEARING SURFACE. EXCAVATIONS SHALL NOT BE LEFT OVERNIGHT. UNLESS A 2" UNREINFORCED SEAL (WJ) SLAB IS PLACED AT THE BOTTOM OF THE FOOTING EXCAVATION.

DIVISION 3

I. CAST-IN-PLACE CONCRETE

1.1 SECTION REQUIREMENTS

A. SUBMIT CONCRETE MIX DESIGNS.

B. COMPLY WITH ASTM C 94; ACI 301, "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS"; ACI 318, "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE"; AND CRSI'S "MANUAL OF STANDARD PRACTICE."

PART 2 - PRODUCTS

2.1 MATERIALS

A. DEFORMED REINFORCING BARS: ASTM A 615, GRADE 60.

B. WELDED STEEL WIRE FABRIC: ASTM A 185, FLAT SHEETS, NOT ROLLS.

C. PORTLAND CEMENT: ASTM C 150, TYPE 1.

D. FLY ASH: ASTM C 618, TYPE F.

E. AGGREGATES: ASTM C 33, CLASS 4S.

F. FIBER REINFORCEMENT: NOT ALLOWED

G. AIR-ENTRAINING ADMIXTURE: ASTM C 260.

H. CHEMICAL ADMIXTURES: ASTM C 494, WATER REDUCING.

I. WATER STOPS: FLAT DUMBBELL OR CENTER-BULB TYPE, OF EITHER RUBBER (CRD C 513) OR PLASTIC (CRD C 572).

J. VAPOR RETARDER: SEE ARCH.

K. LIQUID MEMBRANE-FORMING CURING COMPOUND: ASTM C 309, CLEAR.

2.2 MIXES

A. PROPORTION NORMAL-WEIGHT CONCRETE MIXES TO PROVIDE THE FOLLOWING PROPERTIES:

- COMPRESSIVE STRENGTH: 3500 PSI (24.13 MPa) AT 28 DAYS
- SLUMP LIMIT: 4 INCHES (100 MM) AT POINT OF PLACEMENT.
- WATER-CEMENT RATIO: 0.50 MAXIMUM AT POINT OF PLACEMENT.
- AIR CONTENT: 5.5 TO 7.0 PERCENT FOR CONCRETE EXPOSED TO FREEZING AND THAWING, 2 TO 4 PERCENT ELSEWHERE.

PART 3 - EXECUTION

3.1 CONCRETING

A. CONSTRUCT FORMWORK AND MAINTAIN TOLERANCES AND SURFACE IRREGULARITIES WITHIN ACI 117 LIMITS OF CLASS A FOR CONCRETE EXPOSED TO VIEW AND CLASS C FOR OTHER CONCRETE SURFACES.

B. SEWAGE STOPS WHERE INDICATED TO ENSURE JOINT WATER TIGHTNESS.

C. PLACE VAPOR RETARDER ON PREPARED SUBGRADE, WITH JOINTS LAPPED 6 INCHES (150 MM) AND SEALED.

D. ADJUST BRACE POSITION, SUPPORT, AND SECURE REINFORCEMENT.

E. INSTALL CONSTRUCTION, ISOLATION, AND CONTROL JOINTS.

F. PLACE CONCRETE IN A CONTINUOUS OPERATION AND CONSOLIDATE USING MECHANICAL VIBRATING EQUIPMENT.

G. PROTECT CONCRETE FROM PHYSICAL DAMAGE OR REDUCED STRENGTH DUE TO WEATHER EXTREMES DURING MIXING, PLACING, AND CURING.

H. FORMED SURFACE FINISH: SMOOTH-FORMED FINISH FOR CONCRETE EXPOSED TO VIEW, COATED, OR COVERED BY WATERPROOFING OR OTHER DIRECT-APPLIED MATERIAL; ROUGH-FORMED FINISH ELSEWHERE.

I. UNFORMED SLAB FINISHES: SCRATCH FINISH FOR SURFACES TO RECEIVE MORTAR SETTING BEDS FLOAT FINISH SURFACES FOR INTERIOR STEPS AND RAMPS AND SURFACES TO RECEIVE WATERPROOFING, ROOFING, OR OTHER DIRECT-APPLIED MATERIAL; TROWELED FINISH FOR FLOOR SURFACES AND FLOORS TO RECEIVE FLOOR COVERINGS, PAINT, OR OTHER THIN FILM-FINISH COATINGS TROWEL AND FINE BROOM FINISH FOR SURFACES TO RECEIVE THIN-SET TILE NONSLIP BROOM FINISH TO EXTERIOR CONCRETE PLATFORMS, STEPS, AND RAMPS.

J. CURE FORMED SURFACES BY MOIST CURING UNTIL FORMS ARE REMOVED.

K. BEGIN CURING UNFORMED CONCRETE AFTER FINISHING. APPLY MEMBRANE-FORMING CURING COMPOUND TO CONCRETE.

L. PROTECT CONCRETE FROM DAMAGE. REPAIR SURFACE DEFECTS IN CONCRETE.

DIVISION 5

I. STRUCTURAL STEEL

1.1 SECTION REQUIREMENTS

A. COMPLY WITH AISC'S "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS—ALLOWABLE STRESS DESIGN AND PLASTIC DESIGN," RCSC'S "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A 325 OR A 490 BOLTS," AND AWS D1.1 "STRUCTURAL WELDING CODE—STEEL."

PART 2 - PRODUCTS

2.1 STRUCTURAL STEEL AND ACCESSORIES

A. STRUCTURAL-STEEL SHAPES, PLATES, AND BARS: ASTM A992, CARBON STEEL.

B. COLD-FORMED STRUCTURAL-STEEL TUBING: ASTM A 500, GRADE B.

C. ANCHOR RODS, BOLTS, NUTS: ASTM A 36 (ASTM A 36M), UNHEADED RODS.

D. BOLTS, NUTS, AND WASHERS: ASTM A 325 (ASTM A 325M), TYPE 1, HIGH-STRENGTH HEAVY HEX STEEL STRUCTURAL BOLTS, HEAVY HEX CARBON-STEEL NUTS, AND HARDENED CARBON-STEEL WASHERS, UNCOATED.

E. PRIMER: LEAD- AND CHROMATE-FREE, NONSPALLING, RUST-INHIBITING PRIMER.

F. GROUT: ASTM C 1107, NONMETALLIC, SHRINKAGE RESISTANT, PREMIXED.

2.2 FABRICATION

A. FABRICATE STRUCTURAL STEEL ACCORDING TO AISC SPECIFICATIONS AND TOLERANCE LIMITS OF AISC "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES" FOR STRUCTURAL STEEL.

B. SHOP PRIMING: PREPARE SURFACES ACCORDING TO SSPC-SP 2 OR SSPC-SP 3. SHOP PRIME STEEL TO A DRY FILM THICKNESS OF AT LEAST 1.5 MILS (0.038 MM) AND NOT FORM SURFACES TO BE EMBEDDED IN CONCRETE OR MORTAR OR TO BE FIELD WELDED.

PART 3 - EXECUTION

3.1 ERECTION

A. ERECT STRUCTURAL STEEL ACCORDING TO AISC SPECIFICATIONS AND WITHIN ERECTION TOLERANCES OF AISC'S "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES."

B. SET BASE ANCHORING PLATES ON WEDGES, SHIMS, OR SETTING NUTS. TIGHTEN ANCHOR BOLTS, CUT OFF WEDGES OR SHIMS FLUSH WITH FACE OF PLATE, AND PACK GROUT SOUBLY BETWEEN BEARING SURFACES AND PLATES.

C. BOLTED CONNECTIONS: INSTALL AND TIGHTEN NONHIGH-STRENGTH BOLTS, UNLESS HIGH-STRENGTH BOLTS ARE INDICATED. BOLT TIGHTEN HIGH-STRENGTH BOLTS ACCORDING TO RCSC'S "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A 325 OR A 490 BOLTS."

D. WELD CONNECTIONS: COMPLY WITH AWS D1.1.

II. STEEL JOISTS

PART 1 - GENERAL

1.1 SECTION REQUIREMENTS

A. COMPLY WITH RECOMMENDATIONS OF SJI'S "STANDARD SPECIFICATIONS LOAD TABLES AND WEIGHT TABLES FOR STEEL JOISTS AND JOIST GIRDERS" AND AWS D1.1 "STRUCTURAL WELDING CODE—STEEL."

PART 2 - PRODUCTS

2.1 JOISTS AND ACCESSORIES

A. BOLTS, NUTS, AND WASHERS: ASTM A 325 (ASTM A 325M), TYPE 1, HIGH-STRENGTH HEAVY HEX STEEL STRUCTURAL BOLTS, HEAVY HEX CARBON-STEEL NUTS, AND HARDENED CARBON-STEEL WASHERS, UNCOATED.

B. PRIMER: MANUFACTURER'S STANDARD SHOP PRIMER.

C. MANUFACTURE JOISTS ACCORDING TO SJI'S SPECIFICATIONS WITH STEEL ANGLE TOP AND BOTTOM CHORD MEMBERS.

D. JOIST BRIDGING ACCORDING TO SJI'S SPECIFICATIONS.

E. SHOP PRIMING: PREPARE SURFACES ACCORDING TO SSPC-SP 2 OR SSPC-SP 3. SHOP PRIME STEEL JOISTS TO A DRY FILM THICKNESS AT LEAST 1 MIL (0.025 MM).

PART 3 - EXECUTION

3.1 INSTALLATION

A. INSTALL JOISTS AND ACCESSORIES PLUMB, SQUARE, AND TRUE TO LINE; SECURELY FASTEN TO SUPPORTING CONSTRUCTION ACCORDING TO SJI'S SPECIFICATIONS.

III. STEEL DECK

PART 1 - GENERAL

1.1 SECTION REQUIREMENTS

A. COMPLY WITH SDI PUBLICATION NO. 28, "SPECIFICATIONS AND COMMENTARY FOR STEEL ROOF DECK AND NON-COMPOSITE STEEL FORM DECK."

B. COMPLY WITH AWS D1.1, "STRUCTURAL WELDING CODE—STEEL," AND AWS D1.3, "STRUCTURAL WELDING CODE—SHEET STEEL."

PART 2 - PRODUCTS

2.1 MATERIALS

A. GALVANIZED STEEL SHEET: ASTM A 653 (ASTM A 653M), STRUCTURAL QUALITY, AND AS FOLLOWS:

- ZINC-COATING WEIGHT: G60 (2180).
- GRADE: GRADE 60.

2.2 DECKING

A. ROOF DECK: FABRICATE PANELS FROM PRIME PAINTED STEEL WITHOUT TOP-FLANGE STIFFENING GROOVES AND AS FOLLOWS:

- PRIME-PAINTED STEEL SHEET: ASTM A511, GRADE C MINIMUM, SHOP PRIMED WITH GRAY OR WHITE BKED-ON LEAD- AND CHROMATE-FREE RUST-INHIBITIVE PRIMER.
- DECK PROFILE: VULCRAFT TYPE B OR EQUAL.
- PROFILE DEPTH: TYPE B, 1 1/2 INCHES (38 MM).
- DESIGN UNCOATED STEEL THICKNESS: 0.0295 INCH.

2.3 MISCELLANEOUS

A. ACCESSORIES: MANUFACTURER'S RECOMMENDED ROOF DECK ACCESSORY MATERIALS.

B. SHEAR CONNECTORS: AWS D1.1, TYPE B, HEADED-STUD TYPE, COLD-FINISHED CARBON STEEL.

C. GALVANIZING REPAIR PAINT: SSPC-PAIN 20 OR DOD-P-21035.

PART 3 - EXECUTION

3.1 DECK INSTALLATION

A. INSTALL DECK PANELS AND ACCESSORIES ACCORDING TO SDI PUBLICATION NO. 28.

B. PLACE, ADJUST, ALIGN, AND BEAR DECK PANELS ON STRUCTURE. DO NOT STRETCH OR CONTRACT SIDE LAP INTERLOCKS.

C. PLACE DECK PANELS FLAT AND SQUARE AND WELD TO STRUCTURE WITHOUT WARP OR DEFLECTION.

D. CUT, REINFORCE, AND FIT DECK PANELS AND ACCESSORIES AROUND OPENINGS AND PROJECTIONS.

E. ROOF DECK ACCESSORIES: INSTALL SUMP PANS, SUMP PLATES, RIDGE AND VALLEY PLATES, FINISH STRIPS, COVER PLATES, END CLOSURES, AND REINFORCING CHANNELS. WELD TO SUBSTRATE.

F. FLOOR POUR STOPS AND ORDER FILLERS: WELD POUR STOPS AND ORDER FILLERS TO STRUCTURE.

G. FLOOR DECK CLOSURES: WELD TIGHT-FITTING CLOSURES AT OPEN ENDS OF RIBS AND SIDES OF DECKING. WELD COVER PLATES AT CHANGES IN DIRECTION OF FLOOR DECK PANELS.

H. WELD SHEAR CONNECTORS THROUGH DECK TO STRUCTURE.

I. PREPARE AND REPAIR DAMAGED GALVANIZED COATINGS ON BOTH SURFACES WITH GALVANIZED REPAIR PAINT ACCORDING TO ASTM A 780.

J. WIRE BRUSH, CLEAN, AND PAINT SCARRED AREAS, WELDS, AND RUST SPOTS ON BOTH SURFACES OF PAINTED DECK PANELS.

IV. COLD-FORMED METAL FRAMING

PART 1 - GENERAL

1.1 SECTION REQUIREMENTS

A. ENGINEER, FABRICATE, AND ERECT COLD-FORMED METAL FRAMING WITH THE FOLLOWING MINIMUM PHYSICAL AND STRUCTURAL PROPERTIES TO WITHSTAND DESIGN LOADS WITHIN THE FOLLOWING LIMITS: SEE PLANS FOR STUD SIZE AND GAUGE.

- NON-BEARING WALLS TYPICAL: LATERAL DEFLECTION OF $L/360$. NON-BEARING WALLS W/ BRICK VENEER: LATERAL DEFLECTION OF $L/600$.

B. CALCULATE STRUCTURAL CHARACTERISTICS OF COLD-FORMED METAL FRAMING ACCORDING TO AISI'S "SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS."

C. SUBMIT PRODUCT DATA.

D. COMPLY WITH AWS D1.1, "STRUCTURAL WELDING CODE—STEEL," AND AWS D1.3, "STRUCTURAL WELDING CODE—SHEET STEEL."

E. PROTECT COLD-FORMED METAL FRAMING FROM CORROSION AND OTHER DAMAGE DURING DELIVERY, STORAGE, AND HANDLING.

PART 2 - PRODUCTS

2.1 MATERIALS

A. GALVANIZED STEEL SHEET: ASTM A 653, G60 (ASTM A 653M, Z180) ZINC COATED; STRUCTURAL QUALITY; GRADE 33.

B. STEEL STUDS AND TRACK: FABRICATE WITH FLANGE WIDTH AND OF DEPTHS INDICATED IN SECTIONS.

2.2 ACCESSORIES

A. STEEL SHAPES AND CLIPS: ASTM A 653, G60 (ASTM A 653M, Z180) ZINC COATED, STRUCTURAL QUALITY; GRADE 33.

B. CAST-IN-PLACE ANCHOR BOLTS AND STUDS: ASTM A 307, GRADE A (ASTM F 568, PROPERTY CLASS 4.8); CARBON-STEEL HEX-HEAD BOLTS AND STUDS; CARBON-STEEL NUTS; AND FLAT, UNHARDENED-STEEL WASHERS. HOT-DIP GALVANIZE ACCORDING TO ASTM A 153.

C. MECHANICAL FASTENERS: CORROSION-RESISTANT COATED, SELF-DRILLING, SELF-THREADING STEEL DRILL SCREWS.

D. INSULATION: SEE ARCHITECTURAL PLANS.

E. GALVANIZING REPAIR PAINT: SSPC-PAIN 20 OR DOD-P-21035.

PART 3 - EXECUTION

3.1 FRAMING

A. INSTALL FRAMING AND ACCESSORIES LEVEL, PLUMB, SQUARE, AND TRUE TO LINE, AND SECURELY FASTEN. TEMPORARILY BRACE FRAMING.

B. FASTEN FRAMING MEMBERS BY WELDING OR SCREW FASTENING.

C. INSTALL INSULATION IN BUILT-UP EXTERIOR FRAMING MEMBERS.

D. FASTEN REINFORCEMENT PLATES OVER WEB PENETRATIONS LARGER THAN STANDARD PUNCHED OPENINGS.

E. STUDS: INSTALL, ALIGN, AND SECURELY ANCHOR CONTINUOUS TRACKS TO SUPPORTING STRUCTURE. SQUARELY SEAT STUDS AGAINST WEBS OF TOP AND BOTTOM TRACKS. SPACE STUDS AS INDICATED; PLUMB, ALIGN, AND FASTEN BOTH FLANGES OF STUDS TO TOP AND BOTTOM TRACK.

- INSTALL AND FASTEN HORIZONTAL BRIDGING IN STUD SYSTEM, SPACED IN ROWS NOT MORE THAN 72 INCHES APART.
- INSTALL STEEL-SHEET DIAGONAL BRACING STRAPS TO BOTH STUD FLANGES, TERMINATE AT AND FASTEN TO REINFORCED TOP AND BOTTOM TRACK AND ANCHOR TO STRUCTURE.
- INSTALL MISCELLANEOUS CONNECTIONS, ACCESSORIES, AND SUPPLEMENTARY FRAMING.
- ISOLATE CURTAINWALL FRAMING FROM BUILDING STRUCTURE USING SLIDE CLIPS OR DEFLECTION TRACK TO PREVENT TRANSFER OF VERTICAL LOADS WHILE PROVIDING LATERAL SUPPORT.

COOK-OUT
4455 MAIN ST., SHALLOTTE NC 28470

PARAPET BRACING PLAN, SPECIFICATIONS AND DESIGN LOADS

DATE: 03-11-2019
DRAWN BY: JKP
CHECK BY: JUM
JOB NO.: 19-010
SHEET

S2 of S9