

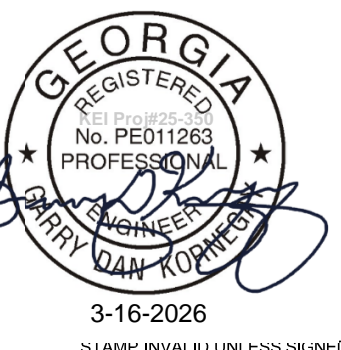
ARCHITECT

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CONSULTANT



GENERAL NOTES

New Facility

Hampton Travel Center

Hwy 81 / Parcel # 019-02031002 Hampton, Georgia 30253

JOB NO.:	02511
DRAWN BY:	DWJ
CHECKED BY:	GDK
DESCRIPTION:	SCH-REVIEW
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OF

STRUCTURAL STEEL

- DESIGN, DETAILING, FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH THE CODES REFERENCED AISC MANUAL OF STEEL CONSTRUCTION, SPECIFICATION FOR STEEL BUILDINGS, AND CODE OF STANDARD PRACTICE.
- STEEL FABRICATOR SHALL BE CURRENTLY CERTIFIED BY THE AISC QUALITY CERTIFICATION PROGRAM FOR STRUCTURAL STEEL FABRICATIONS AND DESIGNATED AS "AISC CERTIFIED BUILDING FABRICATOR CATEGORY BUI". CONTRACTOR SHALL SUBMIT IN WRITING TO THE STRUCTURAL ENGINEER, AT THE TIME OF PROOF OF CERTIFICATION FOR THE STEEL FABRICATOR(S) SUPPLYING STRUCTURAL STEEL.
- MATERIALS SHALL MEET THE FOLLOWING MINIMUM REQUIREMENTS:
 - W-SHAPES + ASTM 992
 - HOLLOW STRUCTURAL SHAPES + ASTM A500 GRADE B
 - PLATES, BARS, ANGLES, C-SHAPES, MC-SHAPES + ASTM A36
 - PIPES + ASTM A53, GRADE B
 - WELDING ELECTRODES + E70XX
- ALL ANCHOR BOLTS SHALL BE SIZE AND STRENGTH SPECIFIED ON THESE DRAWINGS.
- ALL BEAM END CONNECTIONS SHALL BE AISC DOUBLE ANGLE BOLTED/WELDED CONNECTIONS WITH 3/4" DIA. A325N BOLTS UNO. THE WELD SHALL BE 1/4" WELD FULL LENGTH OF ANGLE PLUS 1" TOP AND BOTTOM. DESIGN SHEAR SHALL BE THE GREATER OF:
 - THE SHEAR REACTION SHOWN ON DRAWINGS (IF ANY);
 - 50% OF THE VALUE FROM THE "MAXIMUM TOTAL UNIFORM LOAD IN KIPS" TABLES OF THE AISC 13TH EDITION (BLACK BOOK) OR;
 - THE MINIMUM NUMBER OF BOLTS IN SINGLE SHEAR AS FOLLOWS:

BEAM SHAPE*	* OF 3/4" DIA. A325 BOLTS	LENGTH OF LL 3 1/2"x3 1/2"x5/16"
W8, W10	4	5 1/2
W12, W14	6	8 1/2
W16, W18	8	11 1/2
W21	10	14 1/2
W24	12	17 1/2
W27	14	20 1/2
W30	16	23 1/2

WHERE CONNECTIONS ARE SKEWED OR THE DOUBLE ANGLE CONNECTIONS ABOVE WILL NOT FIT, THE FOLLOWING CONNECTIONS SHALL BE USED:

END OF BEAM CONNECTIONS*

BEAM SHAPE*	* OF 3/4" DIA. A325 BOLTS	1/2" SHEAR TAB LENGTH**
W8, W10	2	5 1/2
W12, W14	3	8 1/2
W16, W18	4	11 1/2
W21	5	14 1/2
W24	6	17 1/2
W27	7	20 1/2
W30	8	23 1/2

*WHEN THE SHEAR TAB CONNECTION ABOVE DOES NOT FIT IN THE BEAM WEB, USE THE ADJACENT SMALLER CONNECTION AND CLOUD ON SHOP DRAWINGS.

**WELD PLATE TO SUPPORTING MEMBER WITH 5/16" WELD ALL AROUND. SHEAR TAB TO BE 1/2" THICK X 4" WIDE.

- ALL BOLTED CONNECTION SHALL BE FULLY PRETENSIONED ACCORDING TO THE REQUIREMENTS OF "AISC MANUAL OF STEEL CONSTRUCTION" UTILIZING DIRECT TENSION INDICATORS OR AN APPROVED INSTALLATION METHOD IN WRITING FROM THE ENGINEER OF RECORD.
- WELDS SHALL BE MADE ONLY BY OPERATORS CERTIFIED BY THE STANDARD QUALIFICATION PROCEDURE OF THE AMERICAN WELDING SOCIETY FOR THE TYPE OF WELD REQUIRED. WELDER CERTIFICATION SHALL BE SUBMITTED FOR REVIEW.
- WELD LENGTHS NOT NOTED SHALL BE FULL LENGTH. TERMINATE WELDS IN ACCORDANCE WITH AISC MANUAL OF STEEL CONSTRUCTION AND AMERICAN WELDING SOCIETY STRUCTURAL WELDING CODE - STEEL (D11).
- HOLES LARGER THAN 1" DIA. SHALL BE COORDINATED WITH THE STRUCTURAL ENGINEER. HOLES SHALL BE PUNCHED OR DRILLED, EXCEPT AS OTHERWISE PERMITTED THE STRUCTURAL ENGINEER.
- PROTECT COLUMNS, BASE PLACES, ANCHOR BOLTS, AND ANY STEEL BELOW GRADE WITH AN APPROVED INORGANIC OR EPOXY ANTI-CORROSION COATING, FIELD APPLIED PER MANUFACTURER'S INSTRUCTIONS.
- ALL EXPOSED STRUCTURAL STEEL INCLUDING LINTELS AND AS NOTED ON DRAWINGS, SHALL BE GALVANIZED IN CONFORMANCE WITH ASTM A123 FASTENERS AND SMALL PARTS REQUIRING GALVANIZING SHALL BE IN CONFORMANCE WITH ASTM A153.
- THE CONTRACTORS SHALL DETERMINE, FURNISH AND INSTALL ALL TEMPORARY SUPPORTS SUFFICIENT TO SECURE THE STRUCTURAL STEEL FRAMING AGAINST LOADS PRESENT DURING ERECTION. TEMPORARY SUPPORTS SHALL REMAIN IN PLACE UNTIL ALL CONNECTIONS TO THE LATERAL LOAD RESISTING SYSTEM, INCLUDING HORIZONTAL DIAPHRAGMS, ARE COMPLETE.
- THE GENERAL CONTRACTOR SHALL VERIFY THAT THE CORRECT BEAM AND GIRDER CAMBER IS PRESENT AFTER ERECTION AND BEFORE FLOOR SLAB IS FURRED.
- SPLICE CONTINUOUS STEEL ANGLES AND PLATES WITH PARTIAL-JOINT-PENETRATION SQUARE GROOVE WELDS (JOINT DESIGNATION B-F1A) UNO.
- STRUCTURAL STEEL FABRICATOR AND DETAILER SHALL SEE THE ARCHITECTURAL DRAWINGS FOR ANY ADDITIONAL STEEL NOT SHOWN OR CALLED OUT IN THESE DRAWINGS. IF SIZE IS NOT SHOWN IN ARCHITECTURAL DRAWINGS A REQUEST OR INFORMATION SHALL BE SENT TO THE STRUCTURAL ENGINEER THROUGH THE PROPER CHANNELS.
- GENERAL CONTRACTOR SHALL COORDINATE CONNECTIONS OF JOIST AND JOIST GIRDERS TO STRUCTURAL STEEL.

COLD-FORMED STEEL STUD FRAMING

- ALL COLD-FORMED STRUCTURAL STEEL MEMBERS, ACCESSORIES, AND CONNECTIONS SHALL BE DESIGNED BY PROFESSIONAL ENGINEER LICENSED IN THE STATE OF PROJECT LOCATION IN ACCORDANCE WITH THE REFERENCED CODE. DESIGN SHALL BE IN ACCORDANCE WITH THE AMERICAN IRON AND STEEL INSTITUTE (AISI) "SPECIFICATION FOR THE DESIGN OF COLD-FORMED STRUCTURAL STEEL MEMBERS". ALL COLD-FORMED STEEL STUD FRAMING SHALL BE MANUFACTURED BY CURRENT MEMBERS OF THE STEEL STUD MANUFACTURER'S ASSOCIATION (SSMA). THE INSTALLATION SHALL COMPLY WITH THE MANUFACTURER'S RECOMMENDATIONS.
- ALL STRUCTURAL MEMBERS SHALL BE FORMED FROM CORROSION-RESISTANT STEEL CORRESPONDING TO THE REQUIREMENTS OF ASTM 1025 (OR ASTM-A653). WELDS SHALL BE TOUCHED UP WITH A ZINC RICH PROTECTIVE PAINT FOR CORROSION RESISTANCE. STRUCTURAL STEEL STUDS SHALL HAVE A MINIMUM THICKNESS OF 33 MILS AND SHALL HAVE A MINIMUM YIELD STRENGTH 33 KSI.

COLD-FORMED STEEL STRUCTURAL MEMBERS			
THICKNESS (MILS)	GAUGE	THICKNESS (MILS)	GAUGE
33	20	68	14
43	18	97	12
54	16	118	10

- STEEL STUD DESIGNER SHALL PROVIDE SEALED SHOP DRAWINGS SHOWING DESIGN CRITERIA, MEMBER SIZE AND SPACING, HEADER AND JAMB CONDITIONS, CONNECTIONS BETWEEN MEMBERS AND TO THE BUILDING STRUCTURE.
- UNLESS SPECIFIED BY FINISH OR GLAZING SYSTEM MANUFACTURER'S MORE STRINGENT REQUIREMENTS (GENERAL CONTRACTOR TO COORDINATE), DESIGN SERVICEABILITY DUE TO LATERAL OR VERTICAL LOADS SHALL MEET THE FOLLOWING MINIMUM REQUIREMENTS:
 - BRICK VENEER + L/600 VERTICAL, L/400 LATERAL
 - EXTERIOR INSULATION AND FINISH SYSTEM (EIFS) + L/240
 - STUCCO + L/360
- "C" SHAPED STUDS AND JOISTS SHALL HAVE A MINIMUM FLANGE WIDTH OF 1 5/8" WITH A MINIMUM RETURN LIP OF 3/8". TRACKS SHALL HAVE A MINIMUM OUTSTANDING LEG OF 1 1/4"
- ALL STRUCTURAL MEMBERS SHALL BE CONTINUOUS FULL LENGTH. SPLICING OF MEMBERS IS NOT PERMITTED UNLESS SPECIFICALLY DETAILED BY THE STUD DESIGNER.
- SCREWS SHALL BE SELF DRILLING WITH A LENGTH THAT ENSURES THREE EXPOSED THREADS BEYOND PENETRATION OF THE JOINED MATERIAL. MINIMUM SCREW SPACING SHALL BE 3/4", MINIMUM EDGE DISTANCE SHALL BE 3/8". SCREW CAPACITIES SHALL BE EQUAL TO OR GREATER THAN THOSE GIVEN BY THE STEEL STUD MANUFACTURER'S ASSOCIATION WITH A 3.0 FACTOR OF SAFETY.
- PROVIDE SEISMIC BRACING AND DETAILS IN CONFORMANCE WITH IBC SECTION 1621. LATERAL BRACING AT THE TOP OF INTERIOR WALLS AND CEILING GRIDS SHALL BE AT 48" ON CENTER MAXIMUM.
- ALL COLD FORMED STEEL FRAMING ACCESSORIES OR BASIC CLIPS SHALL BE FORMED FROM STRUCTURAL QUALITY STEEL WITH MINIMUM YIELD STRENGTH OF 50 KSI AND HAVE MINIMUM PROTECTIVE COATING COMPLYING WITH ASTM 1003/A1003M (OR ASTM A653/A653M) G-60 GALVANIZED COATING. PREFERRED MANUFACTURER: THE STEEL NETWORK, INC.
- WHERE STUDS BYPASS STRUCTURE (FLOOR AND ROOF) OR ATTACH TO THE BOTTOM OF THE STRUCTURE DEFLECTION CONNECTIONS SHALL ALLOW FOR POSITIVE ATTACHMENT TO STRUCTURE AND STUD WEB USING STEP-BUSHING TECHNOLOGY TO PROVIDE FRICTIONLESS, VERTICAL MOVEMENT. CONNECTION PRODUCTS ARE REQUIRED TO HAVE A VALID ICC E9 REPORT (ESR-1909) OR EQUIVALENT COMPLYING WITH ICC ACCEPTANCE CRITERIA A2061. ALL STRUCTURAL FRAMING ACCESSORIES SHALL BE FORMED FROM STRUCTURAL QUALITY STEEL WITH MINIMUM YIELD STRENGTH OF 50 KSI AND HAVE MINIMUM PROTECTIVE COATING COMPLYING WITH ASTM 1003/A1003M (OR ASTM A653/A653M). VERTICLIP® OR VERTITRACK® BY THE STEEL NETWORK, INC ARE ACCEPTABLE PRODUCTS TO MEET THIS CRITERIA.
- LATERAL DRIFT CLIPS ARE TO PROVIDE POSITIVE ATTACHMENT TO STRUCTURE AND STUD WEB USING STEP-BUSHING TECHNOLOGY TO PROVIDE FRICTIONLESS LATERAL AND VERTICAL MOVEMENT. CONNECTION PRODUCTS ARE REQUIRED TO HAVE A VALID ICC E9 REPORT (ESR-2049) OR EQUIVALENT COMPLYING WITH LATERAL AND VERTICAL MOVEMENT. CONNECTION PRODUCTS ARE REQUIRED TO HAVE A VALID ICC E9 REPORT (ESR-2049) OR EQUIVALENT COMPLYING WITH STRENGTH OF 50 KSI AND HAVE MINIMUM PROTECTIVE COATING COMPLYING WITH ASTM 1003/A1003M (OR ASTM A653/A653M). DRIFTCLIP® OR DRIFTTRAK® BY THE STEEL NETWORK, INC ARE ACCEPTABLE PRODUCTS TO MEET THIS CRITERIA.
- RIGID CONNECTIONS FOR ATTACHMENT OF METAL FRAMING TO METAL FRAMING AND TO THE PRIMARY STRUCTURE SHALL BE FORMED FROM STRUCTURAL QUALITY STEEL WITH MINIMUM YIELD STRENGTH OF 50 KSI AND HAVE MINIMUM PROTECTIVE COATING COMPLYING WITH ASTM 1003/A1003M (OR ASTM A653/A653M). STIFFCLIP® SERIES BY THE STEEL NETWORK INCLUDES ACCEPTABLE PRODUCTS TO MEET THIS CRITERIA.
- DESIGN BRIDGING CLIPS TO PROVIDE ATTACHMENT TO STUD WEB AND WRAPPING AROUND THE BRIDGING CHANNEL. BRIDGING ACCESSORIES SHALL BE FORMED FROM STRUCTURAL QUALITY STEEL WITH MINIMUM YIELD STRENGTH OF 50 KSI AND HAVE MINIMUM PROTECTIVE COATING COMPLYING WITH ASTM 1003/A1003M (OR ASTM A653/A653M). BRIDGECLIP® AND BRIDGEBAR® BY THE STEEL NETWORK ARE ACCEPTABLE PRODUCTS TO MEET THIS CRITERIA.
- FRAMING OF WALL OPENINGS SHALL INCLUDE HEADERS AND SUPPORTING STUDS AS RECOMMENDED BY THE STUD MANUFACTURER. CONTRACTORS OPTION, JAMSTUD® BY THE STEEL NETWORK, INC TO REDUCE OR ELIMINATE BUILT-UP FRAMING IN JAMBS, HEADERS, AND SILLS. USE STIFFCLIP® HE OR STIFFCLIP® AL TO ELIMINATE JACK STUDS.
- LIGHT GAUGE STRAPS ON BOTH SIDES OF THE WALL ARE REQUIRED TO PROVIDE SHEAR RESISTANCE FOR SHEAR WALL FRAMING. THE STEEL NETWORK, INC. STIFFWALL® 6W-S IS AN ACCEPTABLE PRODUCT TO MEET THIS CRITERIA.