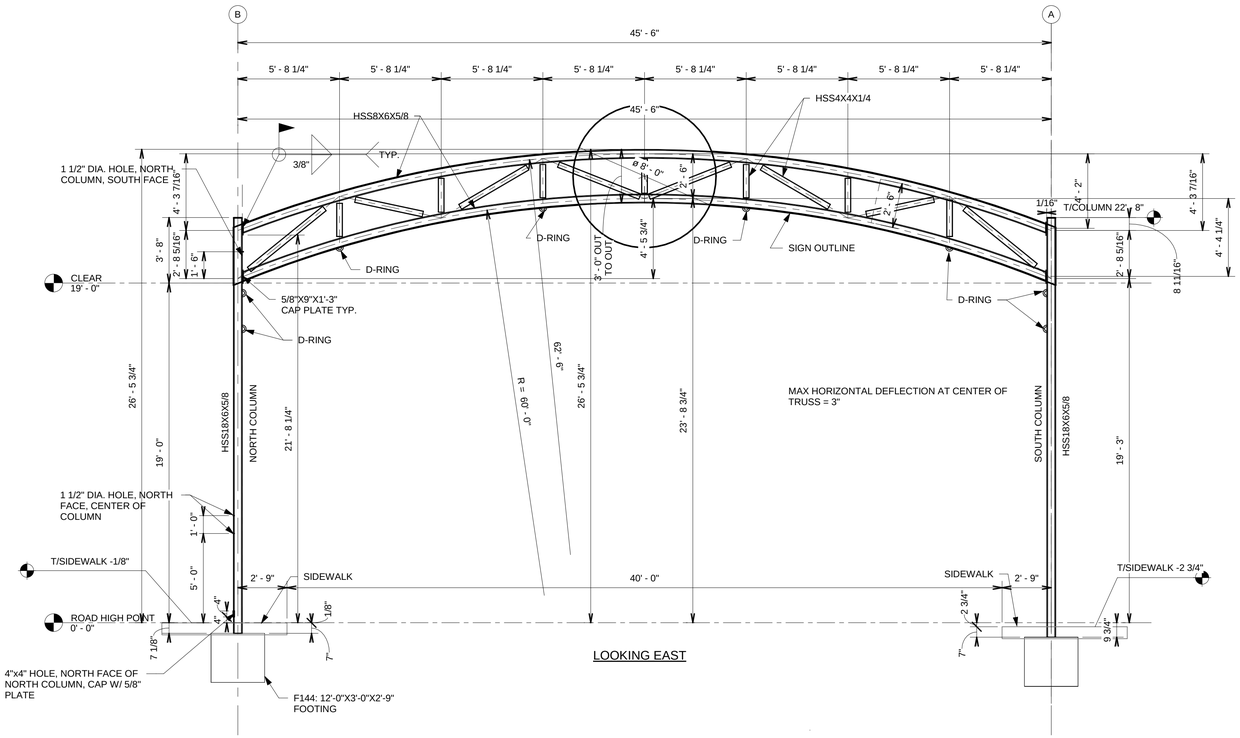
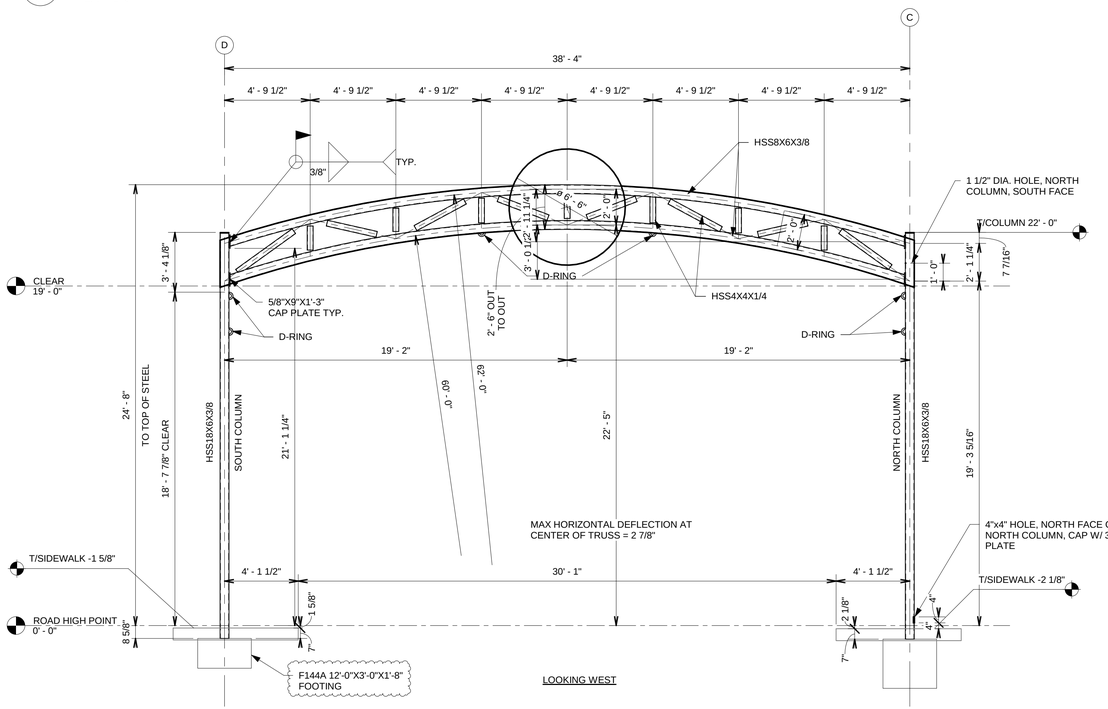


LOOKING EAST

1 S1 SIGN ELEVATION - MAIN STREET

1/4" = 1'-0"



LOOKING WEST

2 S1 SIGN ELEVATION - 4TH STREET

1/4" = 1'-0"

SPREAD FOOTING SCHEDULE				
MARK	WIDTH	LENGTH	THICKNESS	REINFORCEMENT
F120	10' - 0"	3' - 0"	2' - 9"	(12) #5X2'-6" SHORT T&B, (5) #5X9'-6" LONG T&B
F144	12' - 0"	3' - 0"	2' - 9"	(16) #5X2'-6" SHORT T&B, (5) #5X11'-6" LONG T&B
F144A	12' - 0"	3' - 0"	1' - 8"	(16) #5X2'-6" SHORT T&B, (5) #5X11'-6" LONG T&B

CONCRETE:

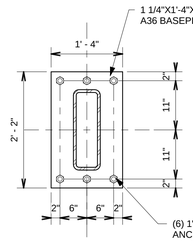
A. UNLESS NOTED OTHERWISE, ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI AT 28 DAYS.
B. SLAB-ON-GRADE AND ALL CONCRETE EXPOSED TO WEATHER SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI.
C. ALL CONCRETE EXPOSED TO WEATHER SHALL HAVE LIMESTONE AGGREGATE AND ENTRAINED AIR.
D. LIMIT AIR CONTENT TO 3% FOR SLAB-ON-GRADE CONCRETE
E. MAXIMUM W/C RATIO FOR SLAB-ON-GRADE SHALL BE 0.50.
F. MAXIMUM W/C RATIO FOR ALL OTHER CONCRETE SHALL BE 0.55
G. CONCRETE SLABS SHALL CONFORM TO ACI 117-90 FOR FLATNESS AND LEVELNESS. ACCORDING TO ASTM E1155, THE SPECIFIED OVERALL VALUE FOR FLOOR FLATNESS (Ff) SHALL BE 35 WITH A MINIMUM LOCAL VALUE OF 25 AND THE SPECIFIED OVERALL VALUE FOR FLOOR LEVELNESS (Fl) SHALL BE 25 WITH A MINIMUM LOCAL VALUE OF 18.
H. CONTRACTOR TO PROVIDE FLOOR FLATNESS AND LEVELNESS TESTING WITHIN 72 HOURS OF CONCRETE FINISHING. TEST RESULTS TO BE PROVIDED TO ARCHITECT.
I. PROVIDE 3/4" CHAMFER AT ALL EXPOSED CORNERS OF BEAMS, WALLS, ETC.
J. ALL SLAB-ON-GRADE CONSTRUCTION SHALL FOLLOW THE RECOMMENDATIONS OF "GUIDE FOR CONCRETE FLOOR AND SLAB CONSTRUCTION, ACI 302.1R-04"
K. CONTROL JOINT LOCATIONS SHOWN ON PLAN ARE THE MINIMUM ALLOWABLE BASED ON ONE SLAB POUR UTILIZING THE SPACING INDICATED ON PLAN. ADDITIONAL JOINTS SHALL BE ADDED BY THE CONTRACTOR AS REQUIRED BASED ON POUR SEQUENCE AND SLAB LAYOUT. CONTROL JOINT SPACING SHALL NOT EXCEED THE MAXIMUM SPACING NOTED ON PLAN. RE: TYPICAL CONTROL JOINT DETAILS FOR ADDITIONAL INFORMATION.
L. A MIN. 10 mil VAPOR BARRIER SHALL BE PROVIDED BELOW SLAB-ON-GRADE AT ALL LOCATIONS. VAPOR BARRIER SHALL BE LAPPED AND TAPED AS REQUIRED BY MANUFACTURER. RE: ARCH FOR ADDITIONAL VAPOR BARRIER REQUIREMENTS.
M. UNLESS NOTED OTHERWISE BY STRUCTURAL DOCUMENTS, MINIMUM COVER FOR REINFORCING SHALL BE AS FOLLOWS:
(a). CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH_____3"
(b). EXPOSED TO EARTH OR WEATHER
#5 OR SMALLER_____1 1/2"
#6 OR LARGER_____2"
(c). NOT EXPOSED TO EARTH OR WEATHER OR IN CONTACT WITH GROUND
SLABS, WALLS, JOISTS
#11 OR SMALLER_____3/4"
ALL OTHER_____1 1/2"
BEAMS, COLUMNS
PRIMARY REINFORCEMENT, TIES, STIRRUPS, SPIRALS__1 1/2"

REINFORCING STEEL:

A. WELDED WIRE FABRIC SHALL BE IN ACCORDANCE WITH ASTM A185. WIRE FABRIC LOCATED IN CONCRETE SLABS SHALL BE LOCATED IN THE CENTER OF THE SLAB, U.N.O. BY STRUCTURAL DOCUMENTS. SUPPORTS USED SHALL BE SPACED A MAXIMUM OF 3'-0" O.C. IN ANY DIRECTION. ALL OTHER WIRE FABRIC SHALL MEET THE MINIMUM COVER REQUIREMENTS AS LISTED UNDER THE CONCRETE SECTION OF THIS SHEET. ALL WELDED WIRE FABRIC SHALL BE LAPPED ON CROSS WIRE SPACING PLUS 6" (10", MIN)
B. REINFORCING STEEL SHALL COMPLY WITH ASTM A615 GRADE 60 WITH THE FOLLOWING REQUIREMENTS: (a) ACTUAL YIELD STRENGTH BASED ON MILL TESTS DOES NOT EXCEED 78 ksi. RETESTS SHALL NOT EXCEED THIS VALUE BY MORE THAN ADDITIONAL 3000 psi, (b) Fu / Fy SHALL NOT BE LESS THAN 1.25. (Fy = ACTUAL YIELD TENSILE STRENGTH, Fu = ACTUAL ULTIMATE TENSILE STRENGTH)
C. REINFORCING STEEL SHALL COMPLY WITH ASTM A706 AT ALL LOCATIONS WHERE REBAR MUST BE WELDED.
D. REINFORCING STEEL AND ACCESSORIES SHALL BE DETAILED, FABRICATED, AND PLACED IN ACCORDANCE WITH THE LATEST EDITION OF THE A.C.I. DETAILING MANUAL.
E. CONCRETE: ALL TENSION REINFORCEMENT LAPS SHALL BE PER THE CONCRETE LAP SCHEDULE. LAP COMPRESSION REINFORCEMENT 22 BAR DIAMETERS (18" MIN.). REINFORCING SHALL BE CONTINUOUS AROUND CORNERS AND INTERSECTIONS.
F. MASONRY: ALL TENSION REINFORCEMENT LAPS SHALL BE PER THE MASONRY LAP SCHEDULE. LAP COMPRESSION REINFORCEMENT 48 BAR DIAMETERS (18" MINIMUM).
G. WELDABLE REBAR AND D.B.A.'S REQUIRED BY CONTRACT DOCUMENTS SHALL COMPLY TO ALL ASTM A706 REQUIREMENTS.
H. ALL REINFORCEMENT SHALL BE HELD SECURELY IN POSITION WITH STANDARD ACCESSORIES IN CONFORMANCE WITH CRSI MANUAL OF STANDARD PRACTICE AND ACI 315 DURING THE PLACING OF CONCRETE.
I. ALL HOOKS IN REINFORCEMENT SHALL BE AN ACI STANDARD HOOK, UNLESS NOTED OTHERWISE.

STRUCTURAL STEEL:

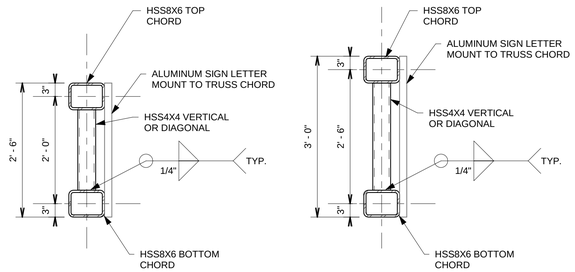
A. ALL ANCHOR BOLTS SHALL BE ASTM F1554-GR36, UNLESS NOTED OTHERWISE.
B. PROVIDE MIN. 1" NON-SHRINK GROUT UNDER COLUMN BASE PLATES, U.N.O. FABRICATOR SHALL SUPPLY ADEQUATE GROUT BED FOR INSTALLATION AND ADJUSTMENT OF LEVELING NUTS.
C. ALL PLATES AND ANGLES SHALL CONFORM TO ASTM A36. ALL STRUCTURAL STEEL SHAPES SHALL CONFORM TO ASTM A992, GRADE 50. RECTANGULAR HOLLOW STRUCTURAL SECTIONS SHALL CONFORM TO ASTM A500, GRADE B WITH YIELD STRENGTH = 46 KSI. ROUND HOLLOW STRUCTURAL SECTIONS SHALL CONFORM TO ASTM A500, GRADE B WITH YIELD STRENGTH = 42 KSI.
D. ALL SHEAR CONNECTIONS NOT DETAILED OR OTHERWISE NOTED SHALL BE STANDARD AISC WELDED OR BOLTED CONNECTIONS AND SHALL HAVE SUFFICIENT CAPACITY TO DEVELOP AN END REACTION EQUAL TO HALF THE GIVEN VALUE IN THE TABLE "ALLOWABLE UNIFORM LOADS IN KIPS FOR BEAMS LATERALLY SUPPORTED" IN PART 2 OF THE THIRTEENTH EDITION OF THE AISC MANUAL.
E. ALL BOLTS FOR BEAM CONNECTIONS SHALL BE ASTM A325 WITH A MINIMUM DIAMETER OF 3/4 INCH, UNLESS NOTED OTHERWISE. ALL BOLTED CONNECTIONS NOT DETAILED SHALL BE DESIGNED AS BEARING TYPE CONNECTIONS. WASHERS SHALL BE INSTALLED UNDER NUTS AND FASTENERS WHEN REQUIRED BY THE SPECIFICATION FOR STRUCTURAL JOINTS.
F. ALL WELDS SHALL BE MADE IN ACCORDANCE WITH THE LATEST PRACTICES OF A.W.S. USE E-70XX SERIES ELECTRODES.
G. CAP PLATES FOR COLUMNS SHALL BE 5/8" THICK UNLESS NOTED OTHERWISE.
H. DIAGONAL ANGLE SUPPORTS AT COLUMNS AND ANY OTHER MISCELLANEOUS SUPPORTS REQUIRED TO CARRY STEEL DECK SHALL BE FURNISHED AND INSTALLED BY THE STEEL FABRICATOR. WHERE OPENINGS OCCUR AND FRAMING IS NOT SHOWN, CONTRACTOR SHALL PROVIDE ADEQUATE SUPPORT IN ACCORDANCE WITH GOOD ENGINEERING PRACTICE.



HSS18X6 COLUMN

3 S1 AB LAYOUT

3/4" = 1'-0"



4TH STREET TRUSS SECTION

MAIN STREET TRUSS SECTION

4 S1 TRUSS SECTIONS

3/4" = 1'-0"

REVISION		
ITEM NO.	DESCRIPTION OF CHANGE	APPROVAL DATE
1	FOOTING MODS	

1-19-18

BEALE STREET ARCHWAY SIGNS

DEVELOPER:

ENGINEER: CHAD STEWART & ASSOCIATES

CSA ENGINEERING
PROJECT NO: 2018-121
Chad Stewart & Associates, Inc.
9700 Village Circle, Suite 300 Lakeland, TN 38002
Phone: 901-260-7890 Fax: 901-260-7855
Lakeland, TN CSAstructures.com Nashville, TN

SHEET 1 OF 1

DIVISION OF ENGINEERING STRUCTURAL PLAN & DETAILS

LOCATION: BEALE STREET BETWEEN MAIN STREET AND 4TH STREET MEMPHIS, TENNESSEE

SURVEY: MW DATE: 1-20-2018 BOOK: N/A
DRAWN: MW DATE: 1-20-2018 SCALE: 1"=20'
DESIGN: _____ DATE: _____ CHECKED: _____ DATE: _____

DEP.CITY ENGR. DATE CITY ENGR. DATE