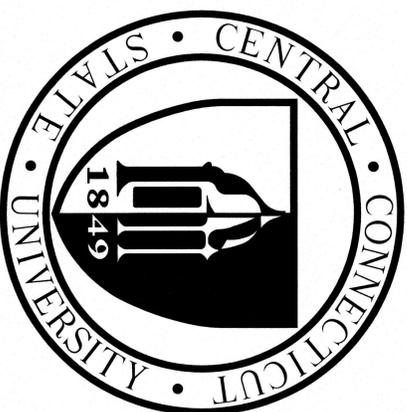


Central Connecticut State University

1615 Stanley Street - New Britain, CT 06050



DR. JOHN W. MILLER
PRESIDENT

DR. RICHARD R. BACHOO
CHIEF ADMINISTRATIVE OFFICER

MR. SAL CINTORINO
ASSISTANT CHIEF ADMINISTRATIVE OFFICER

ITBD NEW GARAGE CANOPIES
185 MAIN STREET
NEW BRITAIN, CONNECTICUT

LIST OF DRAWINGS

TITLE SHEET

- S1 TYPICAL PLAN AND SECTIONS
- S2 TYPICAL ELEVATIONS
- S3 SECTIONS AND DETAILS
- S4 PHOTOS
- S5 GENERAL NOTES



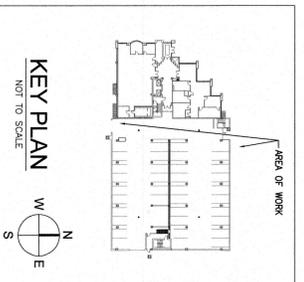


1615 Stanley Street
New Britain, CT 06050

REVISIONS	
NUMBER	DATE DESCRIPTION
#	00/00/00 (TEXT)
	SEE PLAN VERY ELEVATION

Macchi Engineers
41 Citrus Street
Hartford, Connecticut 06105
(860) 545-9439

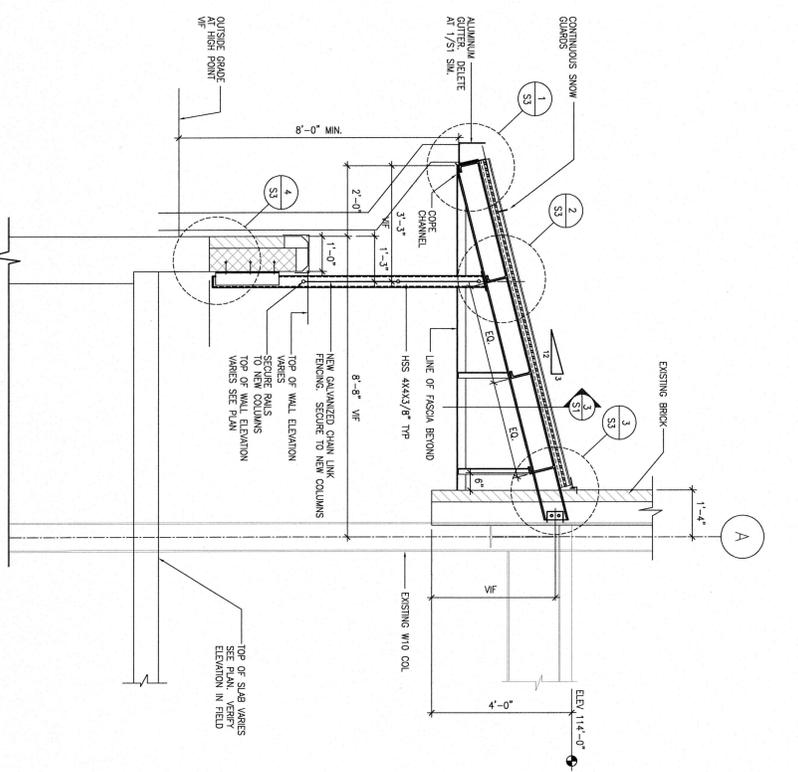
CENTRAL CONNECTICUT STATE UNIVERSITY
ITBD NEW GARAGE CANOPIES
PROJECT NO. 45-100



CCSU PROJECT No.: 45-100
DCS PROJECT No.: BI-RC-392
DRAWN BY: MRP
DATE: 10/23/14
CAD FILE:

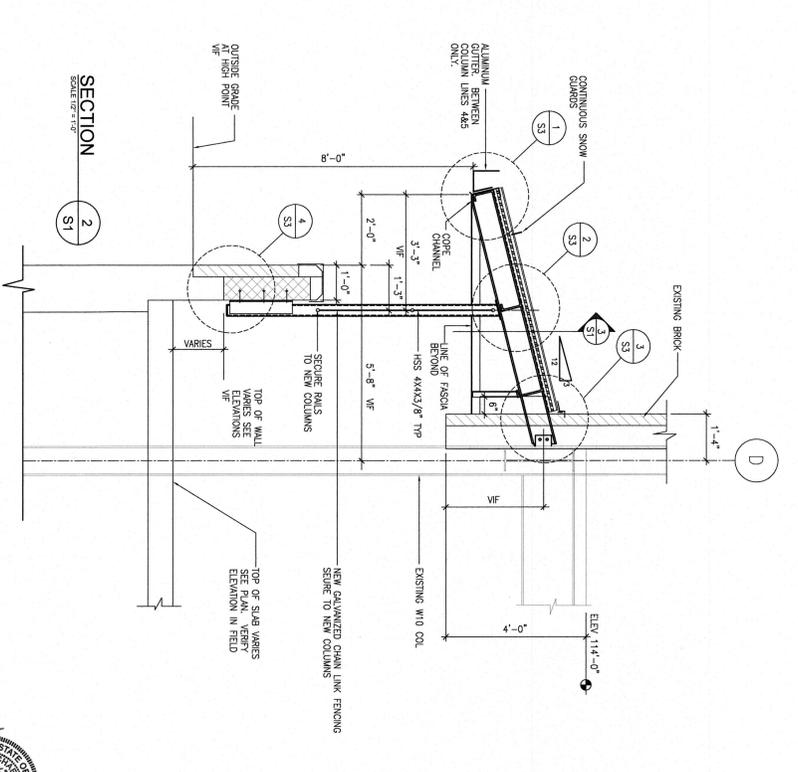
PLANS AND SECTIONS

BUILDING No.: DRAWING No.:
S1

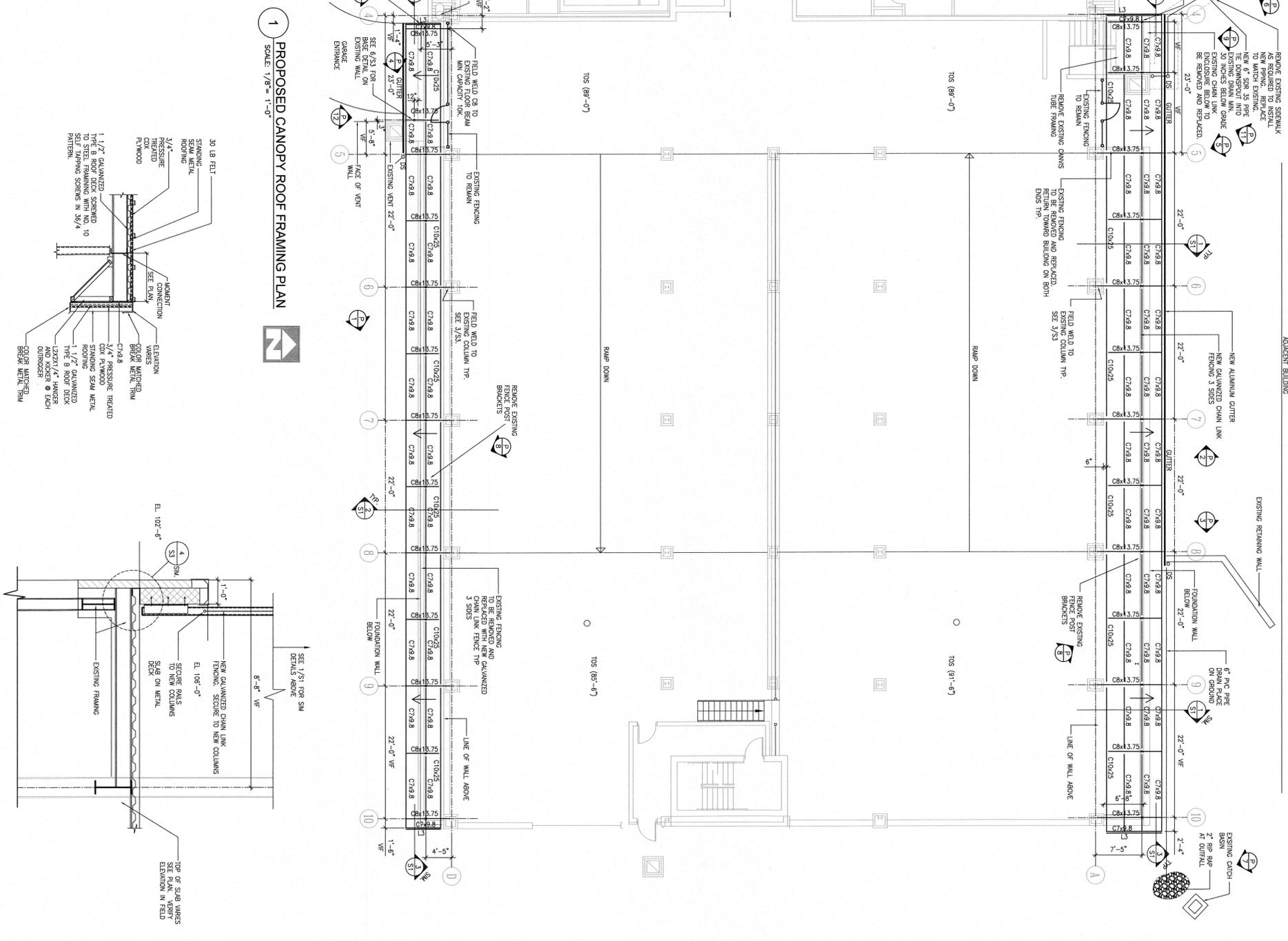


SECTION 1 S1

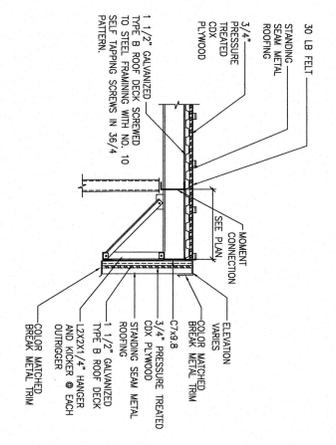
NOTE: SEE DRAWING S5 FOR GENERAL NOTES.



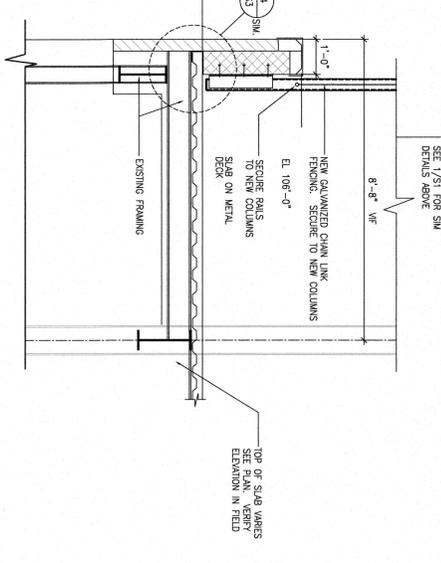
SECTION 2 S1



1 PROPOSED CANOPY ROOF FRAMING PLAN
SCALE: 1/8" = 1'-0"

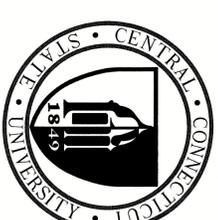


SECTION 3 S1



SECTION 1 S1 SIM



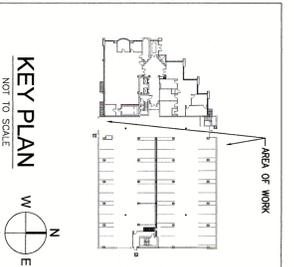


REVISIONS

NUMBER	DATE	DESCRIPTION
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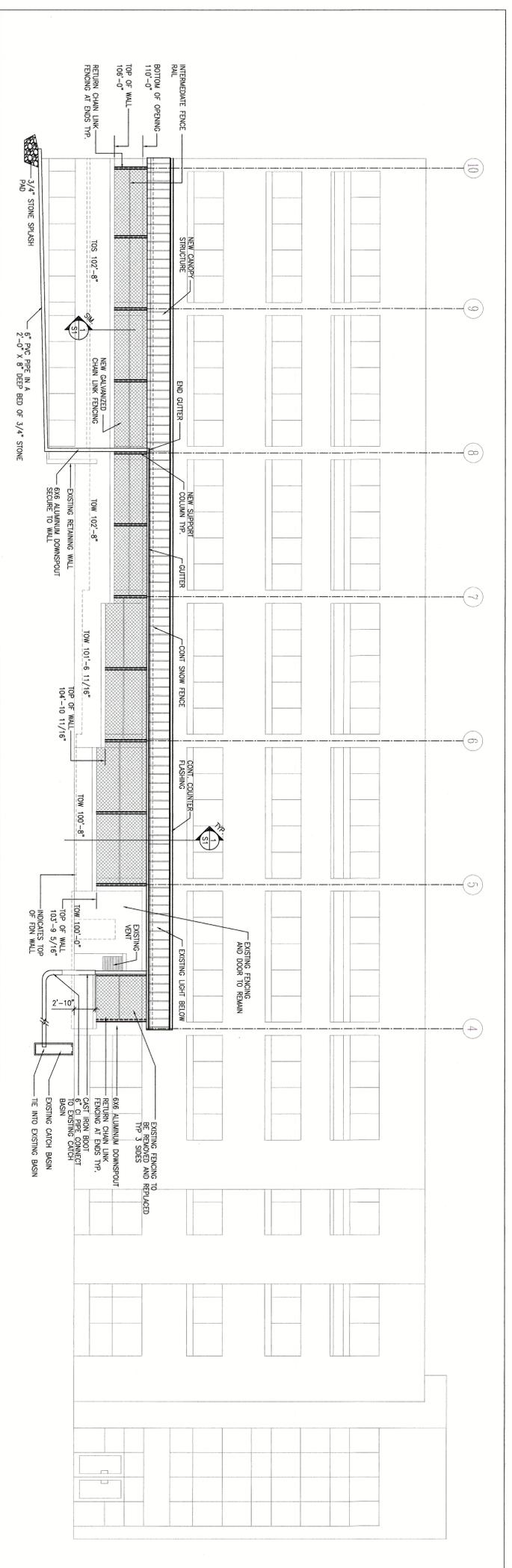
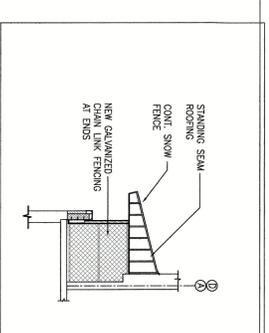
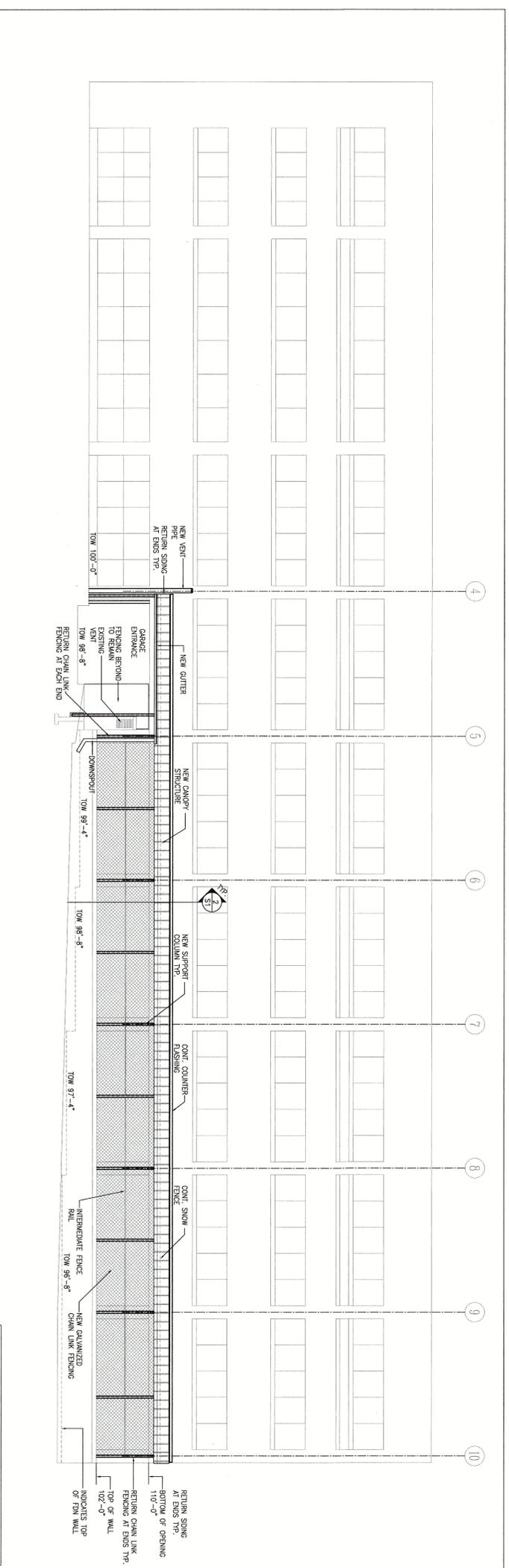


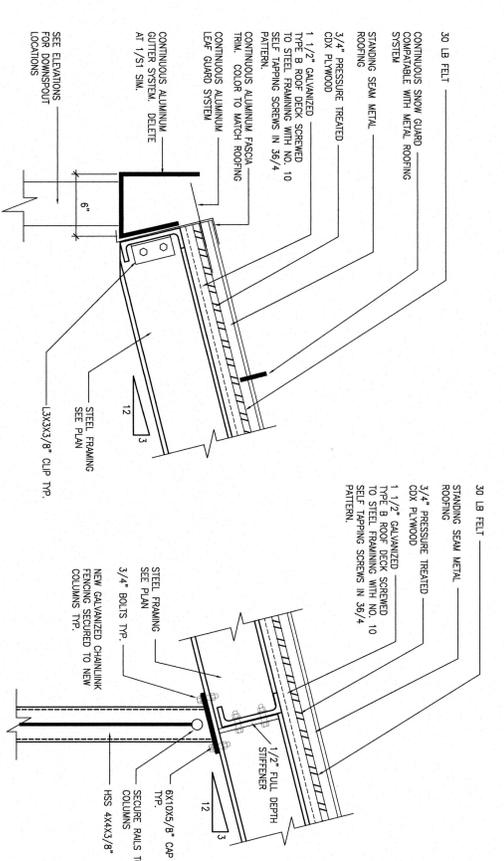
CENTRAL CONNECTICUT STATE UNIVERSITY
17BD NEW GARAGE CANOPIES
PROJECT NO. 45-100



CCSU PROJECT No.: 45-100
DCS PROJECT No.: BI-RC-392
DRAWN BY: MRP
DATE: 10/23/14
CAD FILE:

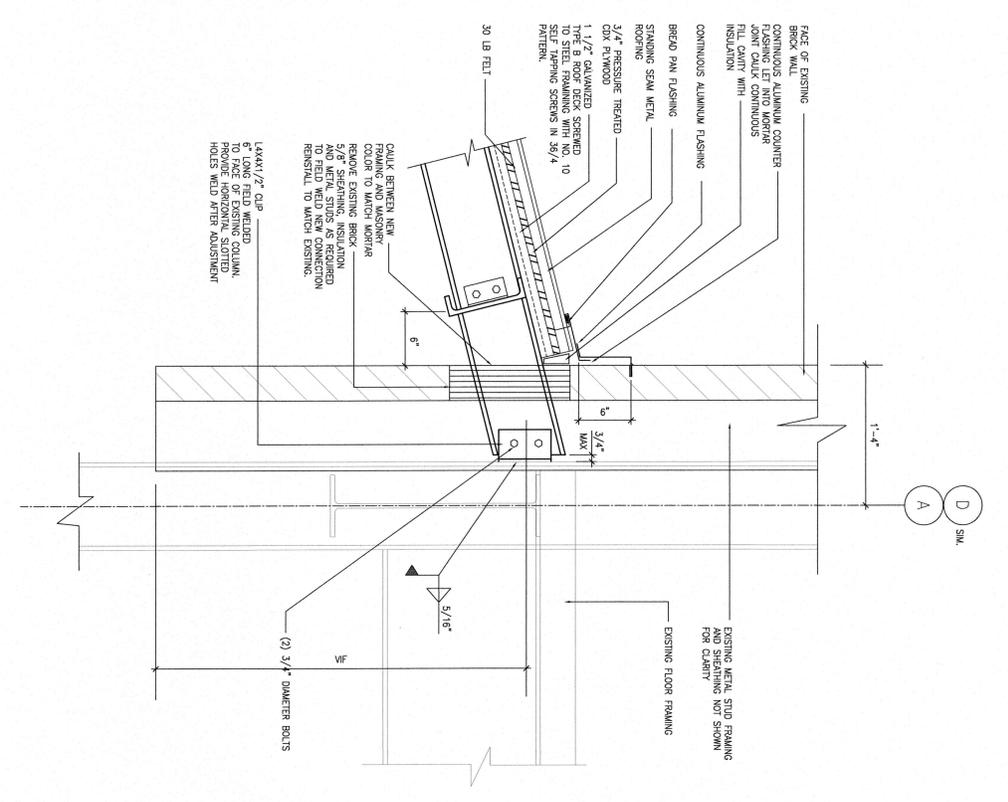
BUILDING No.: DRAWING No.:
S2



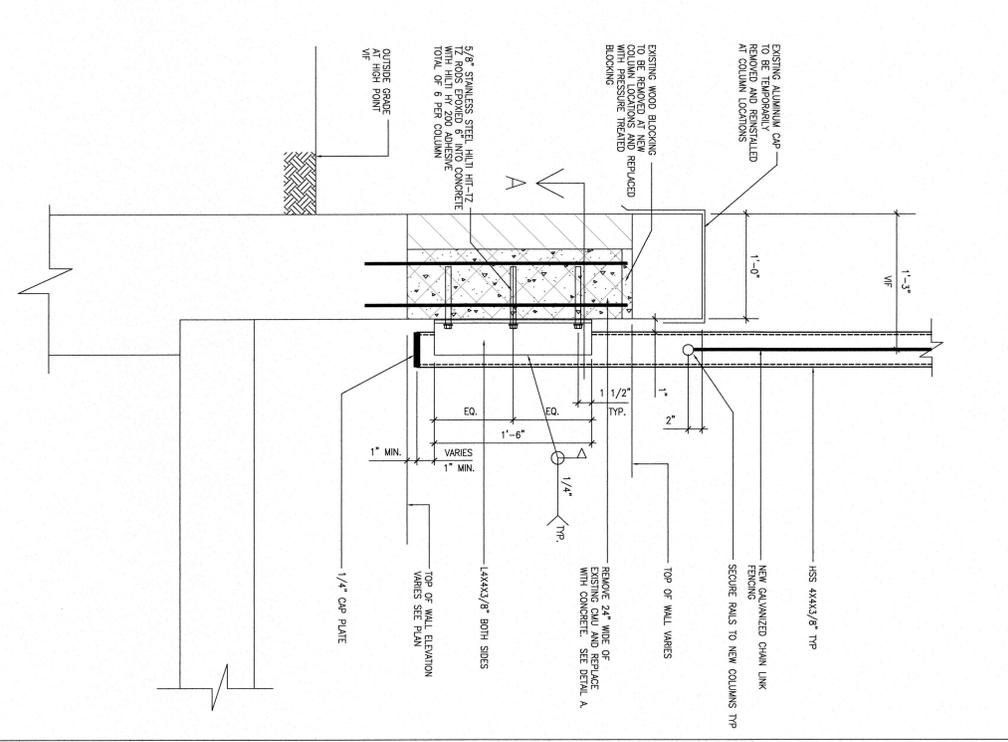


DETAIL 1
SCALE 1/2" = 1'-0"

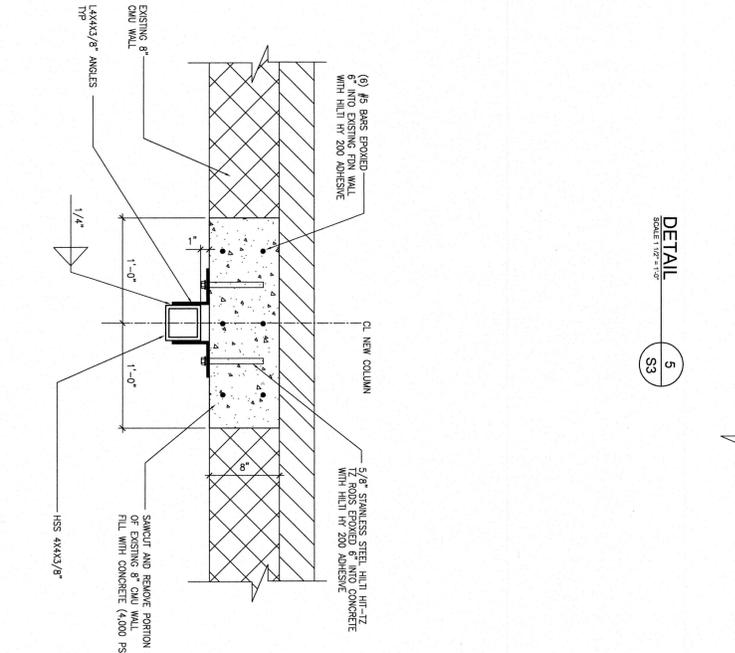
DETAIL 2
SCALE 1/2" = 1'-0"



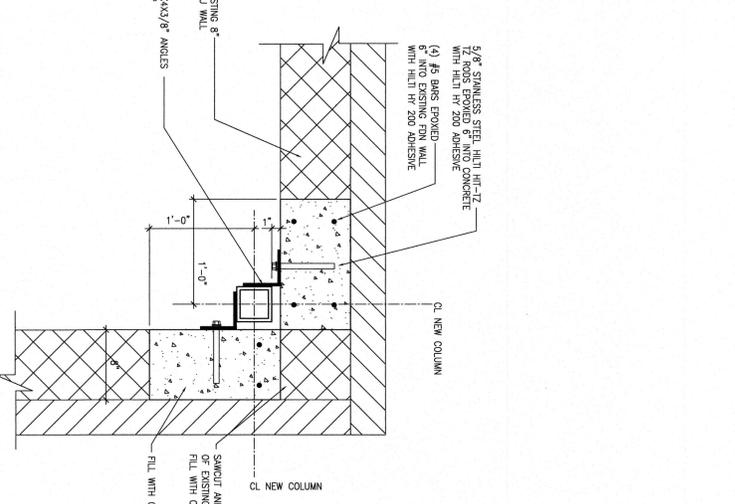
DETAIL 3
SCALE 1/2" = 1'-0"



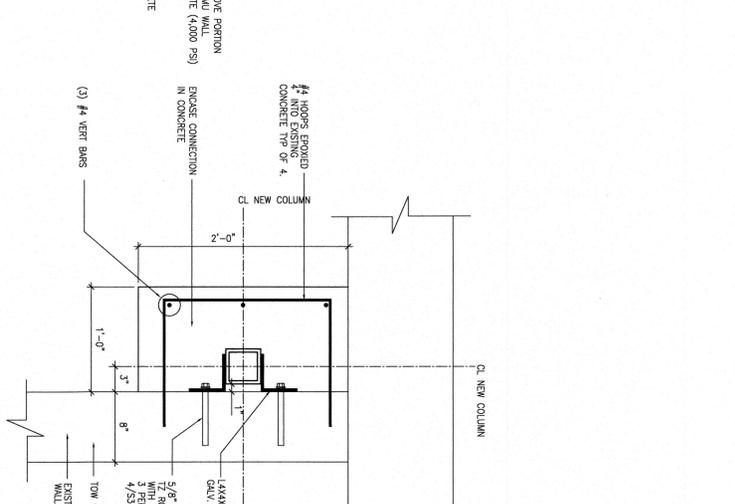
DETAIL 4
SCALE 1/2" = 1'-0"



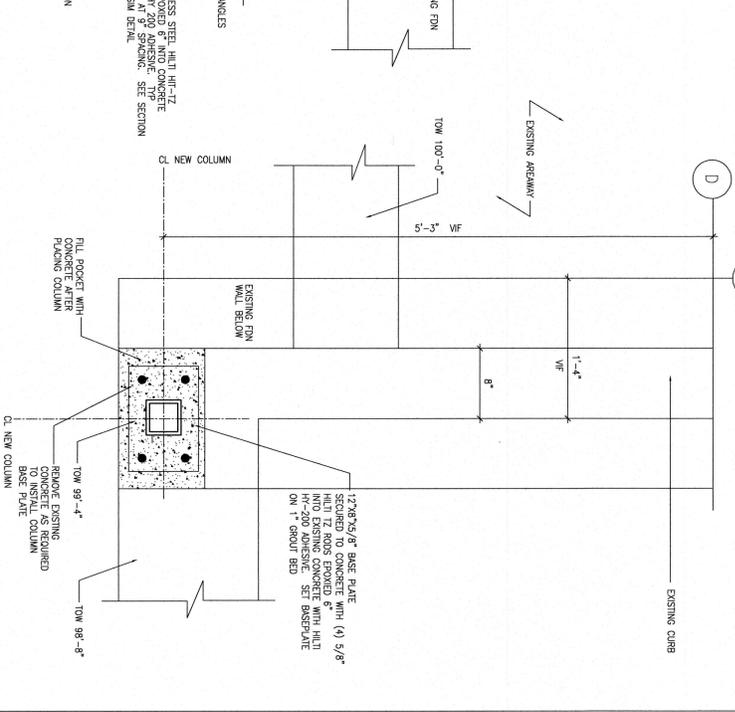
DETAIL 5
SCALE 1/2" = 1'-0"



DETAIL 6
SCALE 1/2" = 1'-0"



DETAIL 7
SCALE 1/2" = 1'-0"



DETAIL 8
SCALE 1/2" = 1'-0"



REVISIONS

NUMBER	DATE	DESCRIPTION
#	00/00/00	(TEXT)

KEY PLAN

AREA OF WORK

CCSU PROJECT No.: 45-100
DCS PROJECT No.: BI-RC-392
DRAWN BY: MRP
DATE: 10/23/14
CAD FILE:

SECTIONS AND DETAILS

BUILDING No.: _____
 DRAWING No.: **S3**

Machi Engineers
 44 Chalk Street
 Hartford, Connecticut 06103
 (860) 584-4300

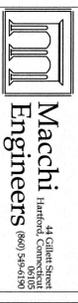
CENTRAL CONNECTICUT STATE UNIVERSITY
 ITBD NEW GARAGE CANOPIES
 PROJECT NO. 45-100

Central Connecticut State University
 1615 Stanley Street
 New Britain, CT 06050

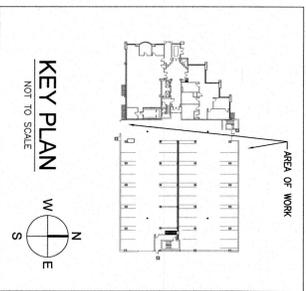


1615 Stanley Street
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NUMBER	DATE DESCRIPTION
#	00/00/00 (TEXT)



CENTRAL CONNECTIC
STATE UNIVERSITY
ITBD NEW GARAGE
CANOPIES
PROJECT NO. 45-100



CCSU PROJECT No.: 45-100
DCS PROJECT No.: BI-RC-392
DRAWN BY: MRP
DATE: 10/23/14
CAD FILE:

GENERAL NOTES

BUILDING No.: DRAWING No.:
SS

GENERAL NOTES

- ALL DIMENSIONS AND DETAILS ARE TO BE FIELD VERIFIED AND CORRECTED BY THE CONTRACTOR PRIOR TO FABRICATION OF ANY STEEL. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
- THE CONTRACTOR SHALL REALIZE THAT THIS PROJECT INVOLVES THE CONSTRUCTION OF NEW CANOPIES TO BE ADDED TO AN EXISTING BUILDING. THE CONTRACTOR SHALL ENHANCE THE STRUCTURAL INTEGRITY OF THE EXISTING BUILDING AND PROVIDE THE NECESSARY BRACING AND CONNECTIONS TO SUPPORT THE NEW CANOPIES. THE CONTRACTOR SHALL PROVIDE THE NECESSARY BRACING AND CONNECTIONS TO SUPPORT THE NEW CANOPIES. THE CONTRACTOR SHALL PROVIDE THE NECESSARY BRACING AND CONNECTIONS TO SUPPORT THE NEW CANOPIES.
- AT NO TIME WILL CONSTRUCTION EQUIPMENT BE ALLOWED WITHIN THE GARAGE WITHOUT WRITTEN APPROVAL OF CCSU. PROTECT THE EXISTING GARAGE MEMBERSHIP SYSTEM AT ALL TIMES.
- AT NO TIME SHALL AREAS WITHIN THE BUILDING BE LEFT EXPOSED DURING THE WORK INDICATED. PROTECT EXISTING STRUCTURES AND FINISHES AT ALL TIMES.
- COORDINATE WORK SHOWN ON THESE DRAWINGS WITH THE SPECIFICATIONS.
- INDICATES PHOTO LOCATION AND NUMBER SEE DRAWING S4 FOR PHOTOS.
- INDICATES SECTION NUMBER
- INDICATES SHEET NUMBER
- INDICATES DOWNSPOUT LOCATION

DESIGN DATA

CODES AND STANDARDS USED:
2003 INTERNATIONAL BUILDING CODE WITH 2006 CONNECTICUT SUPPLEMENT AND 2009 AMENDMENT
AMERICAN CONCRETE INSTITUTE BUILDING CODE (ACI-318-02)
AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC-310 EDITION)
STEEL DESIGN MANUAL REQUIREMENTS
WIND LOAD REQUIREMENTS : (SEE SECTION 1809)
BASE WIND SPEED = 85 MPH (NEW BRITAIN)
EXPOSURE CATEGORY B (SEE 1809-4)
WIND IMPORTANCE FACTOR, $I_w = 1.0$
WALL PRESSURES VARY UPON LOCATION - DETERMINED BY ASCE 7 - CHAPTER 8
LIVE LOAD SCHEDULE:
ROOFS: 100 PSF SNOW INCLUDING DRIFT
ROOF SNOW LOADS: (ASCE 7 - CHAPTER 7)
GROUND SNOW LOAD $P_g = 30$ PSF
FLAT ROOF SNOW LOAD, $P_f = 30$ PSF (MINIMUM)
TERMINAL CATEGORY B
TERMINAL FACTOR $C_e = 1.0$, $C_g = 1.1$
TERMINAL FACTOR $C_{ez} = 1.0$
SLUING SNOW, UNBALANCED SNOW LOADS, DRIFTS ON LOWER ROOFS, ROOF PROJECTIONS PARALLEL LOADING, PILING INSTABILITY, SLATED ROOF SNOW LOADS AND ROOF-ON-SNOW SCHEDULE IN ACCORDANCE WITH ASCE 7, CHAPTER 7

MATERIAL REQUIREMENTS:

STRUCTURAL STEEL:

- ALL ROLLED STEEL TO BE THE REQUIREMENTS OF ASTM A992 GRADE 50 OR ASTM A500 GRADE B.
- ALL BOLTS TO BE A MINIMUM 3/4" DIAMETER A325 GALVANIZED.
- ALL STRUCTURAL STEEL IS TO BE HOT DIPPED GALVANIZED IN ACCORDANCE WITH ASTM A123. THE USE OF GALVANIZED PAINT FOR TOUCH UP.
- ALL WELDING IS TO BE PERFORMED BY AWS CERTIFIED WELDERS IN ACCORDANCE WITH AWS STANDARDS AND REQUIREMENTS.

CONCRETE:

- ALL CONCRETE SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH 4,000 PSI.
- TOTAL AIR CONTENT SHALL NOT EXCEED $5\% \pm 1\%$.
- REINFORCING STEEL ASTM A615 GRADE 60.

STEEL ROOF DECKING:

- ALL STEEL ROOF DECKING SHALL BE 1 1/2" 20 GA. TYPE B GALVANIZED.
- GALVANIZED COATING SHALL CONFORM TO ASTM A653 90D.

PLYWOOD SHEATHING:

- ALL PLYWOOD SHEATHING SHALL BE 3/4" COX PRESSURE TREATED.
- PLYWOOD SHALL BE SECURED TO STEEL DECKING WITH GALVANIZED SELF TAPPING SCREWS. MAX SPACING AT ALL EDGES 6" MAX SPACING IN FIELD 12" EACH WAY.

GUTTERS AND DOWNSPOUTS:

- GUTTERS TO BE 0.60 SEAMLESS ALUMINUM WITH KYNAR 500 FINISH.
- COLOR TO BE SELECTED BY CCSU.

EPOXY BOLTS:

- ALL BOLTS TO BE 5/8" STAINLESS STEEL WITH 17 BARS OR EQUIVALENT.
- EPOXY SHALL BE 1/2" 200 OR 1/4" 20. SEE SECTIONS FOR LOCATIONS.
- INSTALLATION OF BOLTS AND EPOXY SHALL BE IN STRICT CONFORMANCE WITH THE MANUFACTURERS STANDARDS AND REQUIREMENTS.

CHAIN LINK FENCE:

- ALL MESH, BOLTS, CLIPS, AND ATTACHMENTS SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A392.
- MESH TO BE STANDARD 2" WITH 6 GADE WIRES.
- INSTALL IN CONFORMANCE WITH THE MANUFACTURERS STANDARDS.

STANDING SEAM ROOFING:

- STANDING SEAM ROOFING SHALL BE SERIES 300 BAYTON LOK HS PANELS BY MBOI OR APPROVED EQUAL.
- PANELS TO BE A MINIMUM 24 GADE.
- SMOOTH FINISH.
- BAYTON SPACING SHALL NOT EXCEED 16 INCHES, 16 NON COVER WIDTH.
- COLOR "MEDIUM BRONZE" OR AS APPROVED BY CCSU.
- WARRANTY - 30 YEAR MINIMUM FOR FILM INTEGRITY AND CHALK AND FADG.
- INSTALLATION OF ROOFING SHALL BE IN STRICT CONFORMANCE WITH THE MANUFACTURERS STANDARDS AND REQUIREMENTS.

