SOLANO COMMUNITY COLLEGE DISTRICT

4000 Suisun Valley Road, Fairfield, California 94534 (T) 707.864.7000, www.solano.edu

LOUISE WILBOURN YARBROUGH

HORTICULTURE & PLANT SCIENCE INSTITUTE

AT

SOLANO COMMUNITY COLLEGE FAIRFIELD CAMPUS

4000 Suisun Valley Road, Fairfield, California 94534 (T) 707.864.7000, www.solano.edu

CODE SUMMARY & REGULATIONS

AS A FACILITY WHICH COMES UNDER THE APPROVAL AND AUTHORITY OF THE DIVISION OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES (DSA), THIS PROJECT IS SUBJECT TO DRAWING AND JOB SITE REVIEW BY A REPRESENTATIVE OF DSA.

ADMINISTRATIVE REQUIREMENTS (PARTIAL LISTING ONLY FROM CHAPTER 4, PART 1, TITLE 24, C.C.R)

1. A COPY OF PARTS 1 AND 2, TITLE 24, C.C.R. AND ALL SECTIONS OF THE CALIFORNIA BUILDING CODE (9 VOLUMES) SHALL BE KEPT ON SITES AT ALL TIMES.
2. ALL CHANGE ORDERS AND ADDENDA TO BE SIGNED BY THE ARCHITECT OF RECORD AND THE OWNER AND APPROVED BY DSA. ALL SUBSTITUTIONS TREATED AS CHANGE ORDERS ARE NOT VALID UNTIL APPROVED BY DSA PER SECTION 4-338, PART 1, TITLE 24
3. DSA SHALL BE NOTIFIED AT THE START OF CONSTRUCTION AND PRIOR TO THE PLACEMENT OF CONCRETE PER SECTION 4-331, PART 1, TITLE 24
4. INSPECTOR SHALL BE APPROVED BY DSA AND EMPLOYED DIRECTLY BY OWNER. INSPECTION SHALL BE IN ACCORDANCE WITH SECTION 4-331(B), PART 1, TITLE 24
5. SUPERVISION OF CONSTRUCTION BY DSA SHALL BE IN ACCORDANCE WITH SECTION 4-334, PART 1, TITLE 24
6. CONTRACTOR, INSPECTOR, ARCHITECT OF RECORD AND ENGINEERS SHALL SUBMIT VERIFIED REPORTS (DSA 6AE) IN ACCORDANCE WITH SECTION 4-336 AND 4-343, PART 1, TITLE 24
7. THE ARCHITECT OF RECORD AND STRUCTURAL ENGINEER SHALL PERFORM THEIR DUTIES IN ACCORDANCE WITH SECTION 4-333(A) AND 40341, PART 1, TITLE 24
8. THE CONTRACTOR SHALL PERFORM HIS DUTIES IN ACCORDANCE WITH SECTION 4-343, PART 1, TITLE 24

NON-COMPLYING CONSTRUCTION FOR ALTERATION PROJECTS, STATEMENTS SIMILAR TO THE ONE NOTED IN SECTION 4-317 (C), PART 1, TITLE 24, C.C.R. IS TO BE INCLUDED ON THE COVER DRAWINGS.

THE INTENT OF THE DRAWINGS AND PROJECT MANUAL IS THAT THE WORK OF THE ALTERATION, REHABILITATION OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS. UPON DISCOVERY OF NON-COMPLYING EXISTING CONDITIONS NOT ADDRESSED BY THE CONTRACT DOCUMENTS AND AFFECTING COMPLIANCE OF FINISHED WORK, A CHANGE ORDER OR SEPARATE SET OF CONSTRUCTION DOCUMENTS ADDRESSING THE NECESSARY REMEDIAL SLOPE OF WORK SHALL BE SUBMITTED TO AND APPROVED BY THE OWNER, CLIENT, ARCHITECT AND DSA BEFORE PROCEEDING WITH THE WORK.

GOVERNING CODES

*2013 CALIFORNIA BUILDING STANDARD, TITLE 24, PART 1
*2013 CALIFORNIA BUILDING CODE, TITLE 24, PART 2
*2013 CALIFORNIA ELECTRICAL CODE, TITLE 24, PART 3
*2013 CALIFORNIA MECHANICAL CODE, TITLE 24, PART 4
*2013 CALIFORNIA PLUMBING CODE, TITLE 24, PART 5
*2013 CALIFORNIA ENERGY CODE, TITLE 24, PART 6
*2013 CALIFORNIA FIRE CODE, TITLE 24, PART 9
*2013 CALIFORNIA EXISTING BUILDING CODE, TITLE 24, PART 10
*2013 CALIFORNIA GREEN BUILDING STANDARD, TITLE 24, PART 11
*2013 CALIFORNIA BUILDING STANDARDS, TITLE 24, PART 12
*2013 NFPA 13-13 AUTOMATIC SPRINKLER SYSTEMS, WITH 2013 CBC AMENDMENTS
*2013 NFPA 14-13 INSTALLATION OF STANDPIPE, PRIVATE HYDRANT AND HOSE SYSTEMS, WITH 2013 CBC AMENDMENTS
*2013 NFPA 72-13 NATIONAL FIRE ALARM CODE, WITH 2013 CBC AMENDMENTS
*2013 NFPA 20-13 INSTALLATION OF STATIONARY PUMPS FOR FIRE PROTECTION
*2013 NFPA 22-13 WATER TANKS FOR PRIVATE FIRE PROTECTION
*2013 NFPA 24-13 INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES, WITH 2013 CBC AMENDMENTS
*2008 NFPA 25 INSPECTION, TESTING, MAINTENANCE OF WATER-BASED FIRE PROTECTION SYSTEMS
*2013 NFPA 110-13 EMERGENCY AND STANDBY POWER SYSTEMS
*2007 ICC 300-12 STANDARDS ON BLEACHERS, FOLDING TELESCOPIC SEATING & GRANDSTANDS
*2013 NFPA 17-13 DRY CHEMICAL EXTINGUISHING SYSTEMS
*2013 NFPA 17A-13 WET CHEMICAL EXTINGUISHING SYSTEMS
*2008 NFPA 2001-12 CLEAN AGENT FIRE EXTINGUISHING SYSTEMS
*ASTM STANDARDS CHANGES (EXAMPLE: ASTM E648-04 STANDARD TEST METHOD FOR CRITICAL RADIANT FLUX OF FLOOR)
*UL STANDARD CHANGES (EXAMPLE: 2005 UL 38 MANUAL OPERATING SIGNAL BOXES)
*TITLE 24-12 CCR STATE FIRE MARSHAL REGULATIONS
*2003 UL 464-03 AUDIBLE SIGNAL APPLIANCES
*1999 UL 521-99 HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS
*2002 UL 1971 SIGNALING DEVICES FOR HEARING IMPAIRED
*ADA STANDARDS FOR ACCESSIBLE DESIGN: 2010 ADA ACCESSIBILITY GUIDELINES (ADAAG) 28, PART 36 APPENDIX A
*ADA STANDARDS FOR ACCESSIBLE DESIGN-CODE OF FEDERAL REGULATIONS (INCLUDING AMENDMENTS)
* AISC MANUAL OF STEEL CONSTRUCTION, 14TH EDITION
*2005 REVISED NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION
*ACI 318-11 CODE AND COMMENTARY

CONSULTANTS

STRUCTURAL ENGINEER:

CIVIL ENGINEER:

CSW I ST-2
45 LEVERONI COURT
NOVATO, CA 94949
(T) 415.883.9850 (F) 415.883.9385
WWW.CSWST2.COM

ELECTRICAL & FIRE ALARM ENGINEER:

LOW VOLTAGE:

MECHANICAL ENGINEER:

PLUMBING ENGINEER:

FIRE SUPPRESSION ENGINEER:

LANDSCAPE ENGINEER:

WATER INTRUSION CONSULTANT:

ENERGY CONSULTANT:

ACOUSTICAL ENGINEER:

CONSTRUCTION MANAGEMENT:

KITCHELL
360 CAMPUS DRIVE
FAIRFIELD, CA 94534
(T) 707.864.7000
WWW.KITCHELL.COM

SCOPE OF WORK

SCOPE OF WORK INCLUDES AND IS NOT LIMITED TO THE FOLLOWING:

1. GRADING, PAVING, NEW FENCING AND NEW PARKING AS SHOWN.
2. NEW FARMERS MARKET STAND (SHADE STRUCTURE)
3. BID ALTERNATE: GREENHOUSE

EQUIPMENT ANCHORAGE NOTES

ALL MECHANICAL, PLUMBING AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER DETAILS ON DSA APPROVED CONSTRUCTION DOCUMENTS. WHERE NO DETAIL IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN 2013 CBC, SECTIONS 1615A.1.12 THROUGH 1615A.1.22 AND ASCE7-05 CHAPTER 6 AND 13:

1. ALL PERMANENT EQUIPMENT AND COMPONENTS
2. TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER.
3. MOVABLE EQUIPMENT WHICH IS STATIONED IN ONE PLACE FOR MORE THAN 8 HOURS AND HEAVIER THAN 400 POUNDS ARE REQUIRED TO BE ANCHORED WITH TEMPORARY ATTACHMENTS.

THE ATTACHMENT OF THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT NOT BE DETAILED ON THE PLANS. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENTS AND ASSOCIATED DUCTWORK, PIPING AND CONDUIT:

1. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
2. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

FOR THOSE ELEMENTS THAT DO NOT REQUIRE DETAILS ON THE APPROVED DRAWINGS, THE INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD AND THE DSA DISTRICT STRUCTURAL ENGINEER. THE PROJECT INSPECTOR SHALL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS.

PIPING, DUCTWORK AND ELECTRICAL SYSTEM DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE7-05, SECTION 13.3 AS DEFINED IN ASCE7-05 SECTION 13.6.8, 13.6.7 AND 2013 CBC SECTIONS 1615A.1.20, 1615A.1.21 AND 1615A.1.22. BRACING AND ATTACHMENT TO THE STRUCTURE SHALL BE DETAILED ON APPROVED DRAWINGS OR THEY SHALL COMPLY WITH ONE OF THE OSHPD PRE-APPROVALS (OPA#) AS MODIFIED TO SATISFY ANCHORAGE REQUIREMENTS OF ACI 318, APPENDIX D.

COPIES OF THE MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF HANGING AND BRACING OF THE PIPE, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

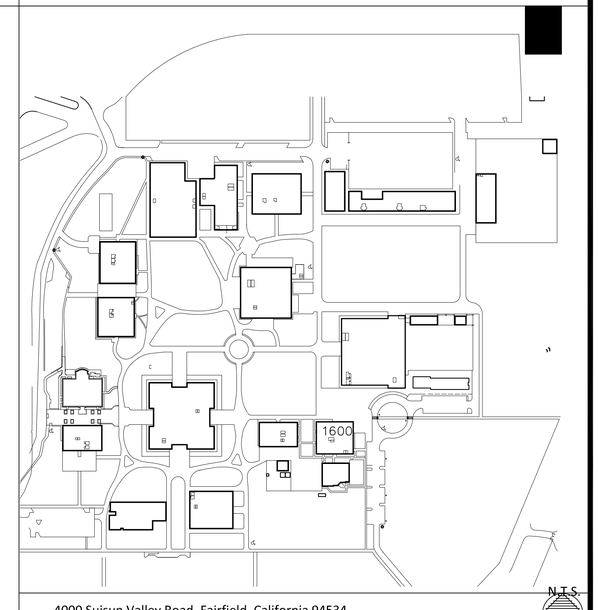
SYMBOLS

- COLUMN GRID LINE — Numbers horizontal, Letters vertical
- ROOM ID — Room name & number
- DOOR SYMBOL — Door number
- WINDOW SYMBOL — Window number
- FINISH SYMBOL — Finish mat'l identification
- SECTION CUT — Section identification, Sheet number
- DETAIL REFERENCE — Detail information, Sheet number
- INTERIOR ELEVATIONS — Detail information, Sheet number / elevation
- REVISION — Addendum letter, Supplemental instruction, revision cloud
- WORK POINT — Target
- MATCH LINE — Target
- ARCHITECTURAL WALL PANEL TYPE SYMBOL
- SHEET NOTE SYMBOL
- ELEVATION TAG

ABBREVIATIONS

@	AT
A.B.	ANCHOR BOLT
A.D.	AREA DRAIN
ADD'L	ADDITIONAL
ADJ. HT.	ADJUSTED HEIGHT
A.F.F	ABOVE FINISH FLOOR
AC	ASPHALT CONCRETE
AGG.	AGGREGATE
ALT.	ALTERNATE
ALUM.	ALUMINUM
AMP	AMPERAGE
APA	AMERICAN PLYWOOD ASSOCIATION
APPROX.	APPROXIMATE
A.S.L.	ABOVE SEA LEVEL
ASTM	AMERICAN SOCIETY OF TESTING MATERIALS
B.F.F.	BELOW FINISH FLOOR
BLK'G/BLKNG	BLOCKING
BM	BEAM
BTM./BOTT.	BOTTOM
BTWN	BETWEEN
B.U.R	BUILT-UP ROOFING
CALCS.	CALCULATIONS
CEM. PLAST.	CEMENT PLASTER
C.I.	CAST IRON
C.J.	CONSTRUCTION JOINT
C.L.	CENTER LINE
CLG.	CEILING
C.M.U.	CONCRETE MASONRY UNIT
COL.	COLUMN
CONC.	CONCRETE
CONTR.	CONTRACTOR
CSMT	CASEMENT
DBL.	DOUBLE
DBL. PL.	DOUBLE PLATE
DET.	DETAIL
DEG.	DEGREE
D.F.	DOUGLAS FIR OR DRINKING FOUNTAIN
DIA.	DIAPHRAGM
DN	DOWN
DS	DOWNSPOUT
DW	DISHWASHER
(E)	EXISTING
EA.	EACH
ELECT.	ELECTRICAL
ELEV.	ELEVATION
E.J.	ELEVATION JOINT
EMBED.	EMBEDMENT
E.P.S.	EXTRUDED POLYSTYRENE FOAM
EXT.	EXTERIOR
F.D.	FLOOR DRAIN
FDN./FOUND.	FOUNDATION
F.F.	FINISHED FLOOR
F.G.	FUEL GAS
F.J./ FLR.JST.	FLOOR JOIST
FLASH'G	FLASHING
FLR.	FLOOR
FLUOR.	FLUORESCENT
F.O.S.	FACE OF STUD
FR.	FRENCH
FTG.	FOOTING
GA.	GAUGE
GALV.	GALVANIZED
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GIR	GIRDER
GLU-LAM	GLUE LAMINATED
G.S.M.	GALVANIZED SHEET METAL
GYP.BD.	GYPSUM BOARD
H.B.	HOSE BIBB
HD	HOLD DOWN
H.H.	HEAD HEIGHT
HMF	HOLLOW METAL FRAME
HORIZ.	HORIZONTAL
HR.	HOUR
INFO.	INFORMATION
INSUL	INSULATION OR INSULATED
JST.	JOIST
LB. OR #	POUND OR NUMBER
LEV./ LVL	LEVEL
LT.	LIGHT
LTWT.	LIGHTWEIGHT
MAX.	MAXIMUM
MBRS	MEMBERS
M.D.F.	MEDIUM DENSITY FIBERBOARD
MFR.	MANUFACTURER
(N)	NEW
NAT.	NATIONAL
M.SUITE/ M.S.	MASTER SUITE
MIN.	MINIMUM
N.I.C.	NOT IN CONTRACT
N.T.S.	NOT TO SCALE
O.C.	ON CENTER
O.H./ OPP.	OPPOSITE HAND
P.B.	PUSH BUTTON
PERF.	PERFORATED
PL.	PLATE
PL.HT.	PLATE HEIGHT
PLYWD.	PLYWOOD
PR.	PAIR
PSI	POUNDS PER SQUARE INCH
P.T.	PRESSURE TREATED
PWDR.	POWDER
R.	RISER
RECOM.	RECOMMENDATION
REINF.	REINFORCING
RFTR.	RAFTER
RM.	ROOM
R.W./RWD	REDWOOD
SAF	SELF ADHESIVE FLASHING
S.C.	SOLID CORE
S.C.D.	SEE CIVIL DRAWINGS
SCHED.	SCHEDULE
SD	SMOKE DETECTOR
S.E.D.	SEE ELECTRICAL DRAWINGS
S.F./ SQ.FT.	SQUARE FOOT
SHR.	SHEAR
SIM.	SIMILAR
S.M.D.	SEE MECHANICAL DRAWINGS
SQ.IN.	SQUARE INCH
S.S.D.	SEE STRUCTURAL DRAWINGS
ST	STRAP
STOR.	STORAGE
STR1	STRUCTURAL 1
S.W.	SHEAR WALL
SQ.	SWITCH
SYM.	SYMBOL
S3S/S4S	SMOOTH 3 OR 4 SIDES
TEMP./ T.	TEMPERED
T.H.	THRESHOLD
T./ THERM	THERMOSTAT
T.O.C.	TOP OF CURB
T.O.F.	TOP OF FLOOR
T.O.G.B.	TOP OF GRADE BEAM
T.O.P.	TOP OF PLATE
T.O.S	TOP OF SLAB
T.O.W.	TOP OF WALL
T/P /T.OF PL	TOP OF PLATE
T.P.O.	THERMOPLASTIC POLYOLEFIN
TRNSM.	TRANSOM
T&G	TONGUE & GROOVE
TYP.	TYPICAL
U.N.O.	UNLESS NOTED OTHERWISE
UTL./ UTIL.	UTILITY
V.	VOLTAGE
VERT.	VERTICAL
V.I.F.	VERIFY IN FIELD
WD.	WOOD
W.A.	WROUGHT IRON
WL	WALL
W.P.	WEATHERPROOF
WP.SCRD.	WEEP SCREED
W.W.F.	WELDED WIRE FABRIC
W.W.M.	WELDED WIRE MESH
W/D	WASHER/ DRYER

PROJECT LOCATION



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ARCHITECTURE + PLANNING
333 1ST STREET, SUITE C
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303 POTRERO STREET, SUITE 7B
SANTA CRUZ, CA 95060

TEL: 800.725.0571

OWNER

SOLANO COMMUNITY COLLEGE

CONSULTANT

PROFESSIONAL STAMP:

LICENSED ARCHITECT
FRANCIS F. CHAN
No. C-7519
11/17
RENEWAL DATE
STATE OF CALIFORNIA

PROJECT:

LOUISE WILBOURN YARBROUGH HORTICULTURE & PLANT SCIENCE INSTITUTE

4000 Suisun Valley Rd, Fairfield, CA 94534

REVISIONS

REF	DESCRIPTION	DATE
-	-	-

PROJECT CODE: SCCD-04
START DATE: -
DRAWN BY: -
CHECKED BY: -

SHEET NAME:

COVER SHEET

DSA APPROVAL STAMP:

SHEET NUMBER:

G0.1

SOLANO COMMUNITY COLLEGE DISTRICT ⊕ LOUISE WILBOURN YARBROUGH HORTICULTURE & PLANT SCIENCE INSTITUTE

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SHEET LIST

GENERAL
G0.1 COVER SHEET
G0.2 SHEET LIST
G0.3 CAMPUS SITE MAP

CIVIL DRAWINGS
C2 GRADING & DRAINAGE PLAN
C3 UTILITY PLAN

ARCHITECTURAL DRAWINGS
A1.1 SITE PLAN - FIRE MARSHAL REVIEW
A1.2 SITE PLAN - ACCESSIBILITY PLAN
A1.3 ENLARGED SITE PLAN
A1.4 ENLARGED SITE PLAN
A1.5 ENLARGED SITE PLAN
A1.6 ENLARGED SITE PLAN
A1.7 ENLARGED SITE PLAN
A1.8 SITE DETAILS
A1.9 SITE FENCING DETAILS
A2.3A GREENHOUSE PLAN (BID ALTERNATE)
A2.5A FARMERS MARKET STAND
E0.1A ELECTRICAL SYMBOLS LIST, SCHEDULE & NOTES
E1.1A POWER SITE PLAN
E1.2A SIGNAL SITE PLAN
E1.3A FIRE ALARM SITE PLAN
E4.1A SIGNAL FLOOR PLANS

FARMERS MARKET STAND BY CONLEYS OR EQUAL (BID ALTERNATE)
FM-01 PLAN CONFIGURATION
FM-02 DETAIL SHEET

FARMERS MARKET STAND BY AMERICANA SHELTERS WITH DSA PC 02-113840 (NO SUBSTITUTION ALLOWED)
G1 DESIGN NOTES
NT30.0 DESIGN NOTES
NT30.1 PLANS AND ELEVATIONS
NT 30.2 SECTIONS AND DETAILS

ARCHITECT

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SANTA CRUZ, CA 95060

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Fairfield, CA 94534

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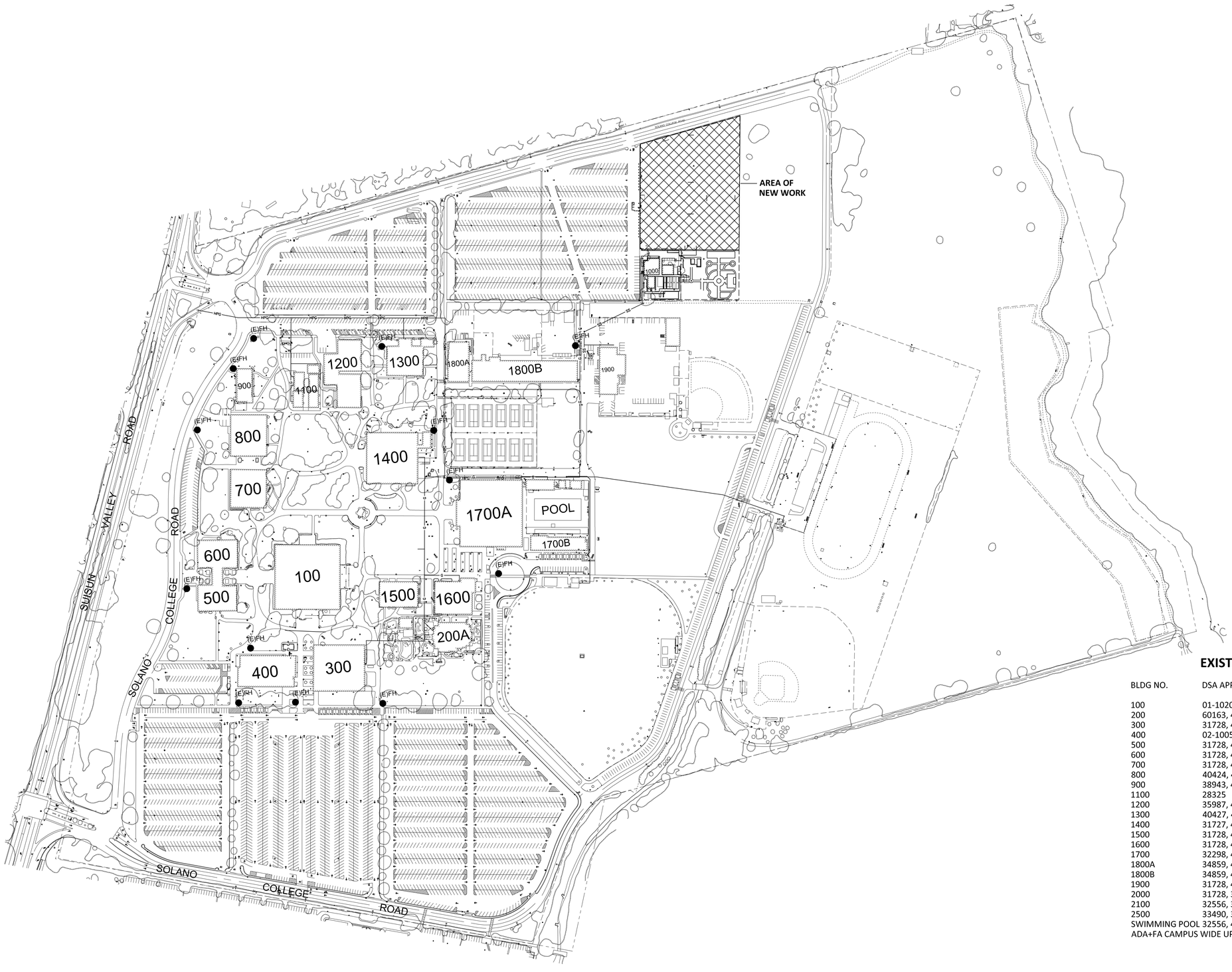
SHEET LIST

DSA APPROVAL STAMP:

SHEET NUMBER:

G0.2

SOLANO COMMUNITY COLLEGE DISTRICT
LOUISE WILBOURN YARBROUGH HORTICULTURE & PLANT SCIENCE INSTITUTE



EXISTING BUILDING SUMMARY

BLDG NO.	DSA APPLICATION NO.	AREA
100	01-102029, 31727, 43623	49,600 SF
200	60163, 43623	9,252 SF
300	31728, 43623, 31407	24,240 SF
400	02-100548	1,440 SF
500	31728, 43623, 31407	11,616 SF
600	31728, 43623 31407, 02-11343	13,056 SF
700	31728, 43623, 31407	16,864 SF
800	40424, 43623, 02-107608	17,856 SF
900	38943, 43623	2,447 SF
1100	28325	17,500 SF
1200	35987, 43623	25,251 SF
1300	40427, 43623	12,240 SF
1400	31727, 43623	30,976 SF
1500	31728, 43623, 31407	11,616 SF
1600	31728, 43623, 31407	14,336 SF
1700	32298, 43623, 02-103762	48,201 SF
1800A	34859, 43623	9,660 SF
1800B	34859, 43623, 02-106610	24,610 SF
1900	31728, 43623, 31407	10,730 SF
2000	31728, 31407	3,100 SF
2100	32556, 33013, 43623	3,500 SF
2500	33490, 33013, 43623	
SWIMMING POOL	32556, 43623	
ADA+FA CAMPUS WIDE UPGRADES	02-103473	

1 CAMPUS SITE MAP

SCALE : 1: 2000

A-Site

N

C:\Users\Owner\Dropbox (mADI Group, Inc.)\mADI Group, Inc\PROJECTS\Solano Community College\SCCD-04 Horticulture\Dwg\+G0.3 SITE CONTEXT.dwg 4-06-16 03:32:58 PM Owner

ARCHITECT

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REVISIONS

REF	DESCRIPTION	DATE
-	-	-

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DRAWN BY:	-
CHECKED BY:	-

SHEET NAME:

CAMPUS SITE MAP

DSA APPROVAL STAMP:

SHEET NUMBER:

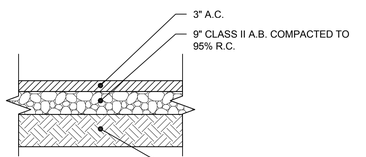
G0.3

SOLANO COMMUNITY COLLEGE DISTRICT
LOUISE WILBOURN YARBROUGH HORTICULTURE & PLANT SCIENCE INSTITUTE

EG 45.40
FS 44.30
EG 43.60
(E) SID IRR. VALVE
EG 43.30
EG 42.20
ACCESSIBLE COMMON GARDENS
COMMON GARDENS
FS 44.50
PLANTER BEDS
FS 46.30
FS 44.10
FS 43.90
2 C2
FS 45.20
FS 44.90
FS 44.60
FS 46.36
FS 46.00
FS 45.60
FS 45.12
FS 45.00
FS 44.85
FS 44.80
FARMERS MARKET STAND FF = 44.90
EG 43.00
FS 43.30
FS 43.80
EQUIPMENT & STORAGE BLDG. FF = 46.40
FS 44.80
FS 44.00
FS 43.50
FS 43.40
FS 43.70
FS 44.00
FS 44.20
EG 45.87
BEG. EARTHEN SWALE FL 46.10
EARTHEN SWALE S=0.8%
FS 44.70
FS 44.50
RAINWATER CISTERN. TIE IN DOWNSPOUTS FROM STORAGE BLDG AND GREEN HOUSE BLDG.
GREEN HOUSE FF = 45.68
FS/FL 44.40
RESTROOM BLDG. FF = 45.20
FS/FL 44.60
20' WIDE NON-VEHICULAR AC PATH. (EVA ONLY)
END EARTHEN SWALE FL 44.60
1 C2
5' WIDE CONC. PATH
3' WIDE SLOPE AREA
REMOVE (E) FENCE
(E) CONC.
EG 46.10
FS 46.30
CURB RAMP (SEE DETAIL 3)
FS 45.50
FS 45.70
EG 45.20
EG 45.7
EG 47.80
(E) TC 47.99
(E) TC 46.60
REMOVABLE BOLLARDS
(E) TC 46.46
FS (FLUSH TC) 45.90
SOLANO COLLEGE ROAD
S.I.D. Siphon
(E) TC 43.90
(E) DI GRATE=43.40 24" INV.=39.00
(E) HEAD HOUSE
BLDG. 1000 (E) CLASSROOM (E) FF= 46.33
(E) GREEN HOUSE
EX. 24" SD
FUTURE PATHWAYS
(E) DI GRATE=41.0± 24" INV.=37.0±
(E) DITCH
TWO (E) 3" PVC PIPE ENDS
(E) 6" SD (LENGTH UNKNOWN)
(E) AREA DRAINS
Graphic Scale (in feet)
30 0 30 60
1 inch = 30 ft.
BID SET
1900

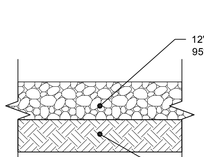
ABBREVIATIONS

AB	AGGREGATE BASE
AC	ASPHALT CONCRETE
DI	DROP INLET
EG	EXISTING GRADE
(E)	EXISTING
FF	FINISH FLOOR
FL	FLOWLINE
FS	FINISH SURFACE
INV	INVERT
TC	TOP OF CURB
	EXISTING OVERLAND FLOW



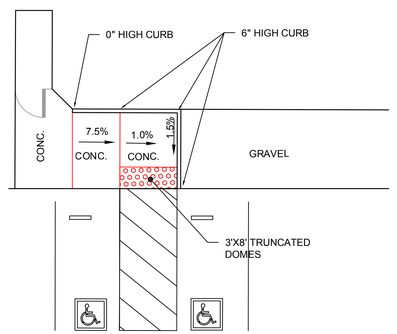
NOTES:
1. PAVEMENT SECTIONS IS BASED ON A TI OF 4 AND A "R" VALUE OF 5. ADJUST DIMENSIONS PER FIELD CONDITIONS AS RECOMMENDED BY THE GEOTECHNICAL ENGINEER.
2. REFER TO GEOTECHNICAL REPORT FOR SUBGRADE PREPARATION.
3. PAVEMENT SECTION IS FOR EVA ONLY.

1 AC FIRE LANE PAVEMENT SECTION
SCALE: 1" = 1'



NOTES:
1. PAVEMENT SECTIONS IS BASED ON A TI OF 4 AND A "R" VALUE OF 5. ADJUST DIMENSIONS PER FIELD CONDITIONS AS RECOMMENDED BY THE GEOTECHNICAL ENGINEER.
2. REFER TO GEOTECHNICAL REPORT FOR SUBGRADE PREPARATION.
3. PAVEMENT SECTION IS FOR EVA ONLY.

2 AB FIRE LANE PAVEMENT SECTION
SCALE: 1" = 1'



3 CURB RAMP DETAIL
SCALE: N.T.S.

P:\04\4116406\DWG\Sheet_Drawings\C2-Grading and Drainage Plan.dwg 3-22-16 05:08:06 PM bowks

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CONSULTANT
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Surveying & Mapping
Environmental Planning
Land Planning
Construction Management
http://www.csw-st2.com © 2013

PROFESSIONAL
REGISTERED PROFESSIONAL ENGINEER
KIRK S. BOVITZ
No. 74631
CIVIL
STATE OF CALIFORNIA

PROJECT:
LOUISE WILBOURN YARBROUGH HORTICULTURE & PLANT SCIENCE INSTITUTE
4000 Suisun Valley Rd, Fairfield, CA 94534

REVISIONS

REF	DESCRIPTION	DATE
-	-	-
D	VE REVISIONS	03/23/16
C	DSA BACKCHECK	03/07/16
B		
A	CLIENT SUBMITTAL	12/01/15

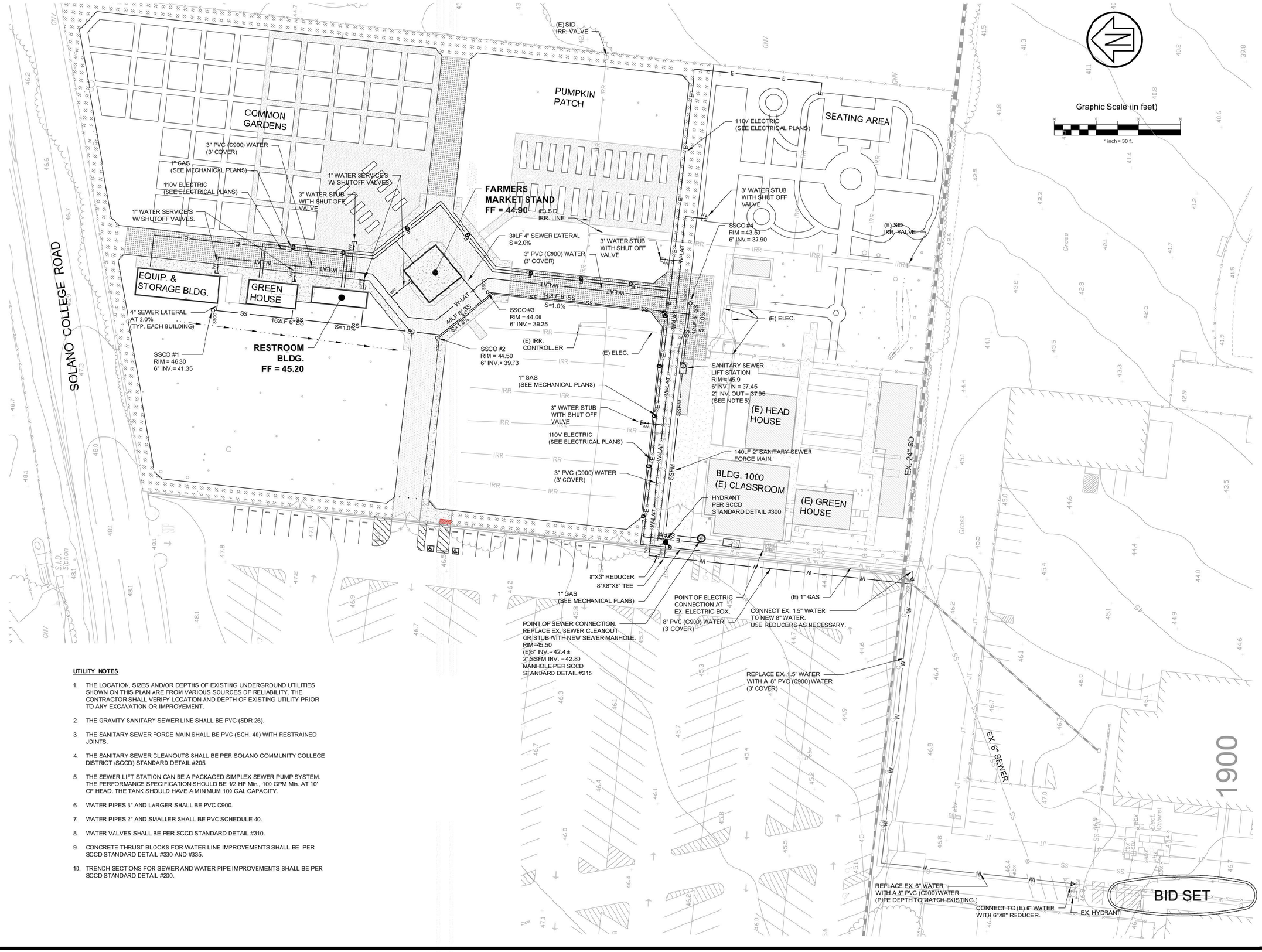
PROJECT CODE: SCCD-04
START DATE: -
DRAWN BY: -
CHECKED BY: -
SHEET NAME:

GRADING & DRAINAGE PLAN

DSA APPROVAL STAMP:

SHEET NUMBER:
C 2

LOUISE WILBOURN YARBROUGH HORTICULTURE & PLANT SCIENCE INSTITUTE ⊕ SOLANO COMMUNITY COLLEGE DISTRICT



UTILITY NOTES

1. THE LOCATION, SIZES AND/OR DEPTHS OF EXISTING UNDERGROUND UTILITIES SHOWN ON THIS PLAN ARE FROM VARIOUS SOURCES OF RELIABILITY. THE CONTRACTOR SHALL VERIFY LOCATION AND DEPTH OF EXISTING UTILITY PRIOR TO ANY EXCAVATION OR IMPROVEMENT.
2. THE GRAVITY SANITARY SEWER LINE SHALL BE PVC (SDR 26).
3. THE SANITARY SEWER FORCE MAIN SHALL BE PVC (SCH. 40) WITH RESTRAINED JOINTS.
4. THE SANITARY SEWER CLEANOUTS SHALL BE PER SOLANO COMMUNITY COLLEGE DISTRICT (SCCD) STANDARD DETAIL #205.
5. THE SEWER LIFT STATION CAN BE A PACKAGED SIMPLEX SEWER PUMP SYSTEM. THE PERFORMANCE SPECIFICATION SHOULD BE 1/2 HP Min., 100 GPM Min. AT 10' OF HEAD. THE TANK SHOULD HAVE A MINIMUM 100 GAL CAPACITY.
6. WATER PIPES 3" AND LARGER SHALL BE PVC C900.
7. WATER PIPES 2" AND SMALLER SHALL BE PVC SCHEDULE 40.
8. WATER VALVES SHALL BE PER SCCD STANDARD DETAIL #310.
9. CONCRETE THRUST BLOCKS FOR WATER LINE IMPROVEMENTS SHALL BE PER SCCD STANDARD DETAIL #330 AND #335.
10. TRENCH SECTIONS FOR SEWER AND WATER PIPE IMPROVEMENTS SHALL BE PER SCCD STANDARD DETAIL #200.

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ARCHITECT

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Novato, CA 94949 fax: 415.883.9835
Civil & Structural Engineers
Surveying & Mapping
Environmental Planning
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Construction Management
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PROFESSIONAL STAMP:

REGISTERED PROFESSIONAL ENGINEER
KIRK S. BOVITZ
No. 74631
CIVIL
STATE OF CALIFORNIA

PROJECT:

LOUISE WILBOURN YARBROUGH HORTICULTURE & PLANT SCIENCE INSTITUTE

4000 Suisun Valley Rd,
Fairfield, CA 94534

REVISIONS

REF	DESCRIPTION	DATE
-	-	-
D	VE REVISIONS	03/23/16
C	DSA BACKCHECK	03/07/16
B	DSA SUBMITTAL	03/01/16
A	CLIENT SUBMITTAL	12/01/15

PROJECT CODE: SCCD-04
START DATE: -
DRAWN BY: -
CHECKED BY: -

SHEET NAME:

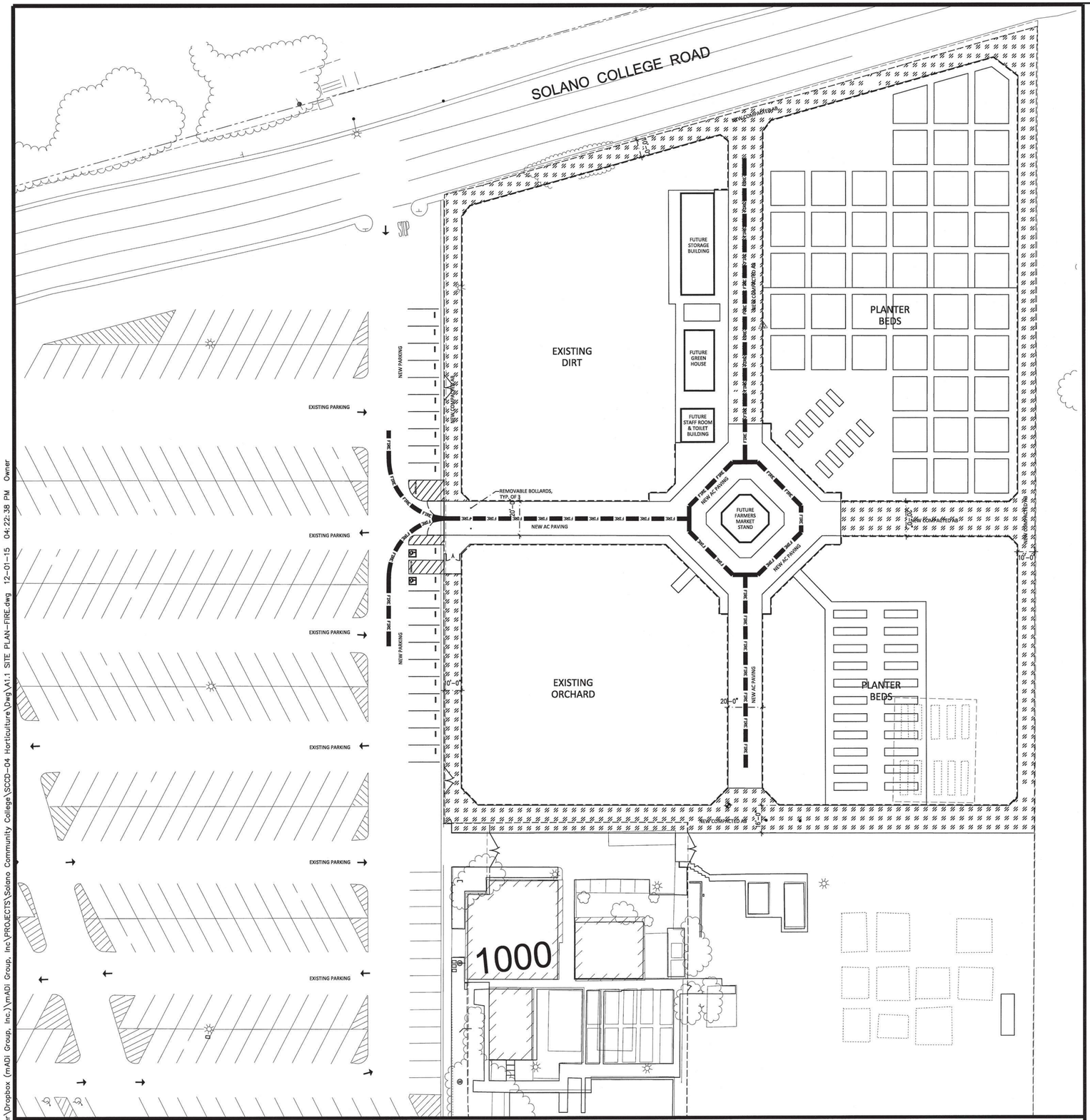
UTILITY PLAN

DSA APPROVAL STAMP:

SHEET NUMBER:

C 3

LOUISE WILBOURN YARBROUGH HORTICULTURE & PLANT SCIENCE INSTITUTE @ SOLANO COMMUNITY COLLEGE DISTRICT



1 SITE PLAN

SCALE : 1" = 30'-0"

A-Site

DSA 810

LOCAL FIRE AUTHORITY REVIEW

To facilitate the Division of the State Architect's (DSA) approval of the Fire/Life Safety portion of a project, DSA requires Local Fire Authority (LFA) review of certain elements as identified in this form. Use of this form is mandatory for projects that add square footage to a campus or if any item on this form is relevant to the project. For additional information, see DSA 810 Instructions and DSA Policy 09-01.

PROJECT INFORMATION

School District/Owner:

Project Name/School:

Project Address:

LOCAL FIRE AUTHORITY (LFA)

LFA Agency Name: Cordelia Fire Protection District

LFA Reviewer Name: Keith Martin | Title: Fire Chief

Email: keithemartin@sbcglobal.net | Telephone Number: 707-864-0468

I have reviewed and responded to the applicable items for this project as listed below.

Note: Only sign this form when it is imaged onto the site plan. A loose form is not acceptable to DSA.

LFA Reviewer's Signature: [signature] **Date:** 12/14/15

Review Key: **"Y"** = Complies with LFA requirements **"N"** = Not approved (complete Section 8) **"NA"** = Not applicable to the project **"NR"** = LFA elects not to review

	Description	Y	N	NA	NR
1	Where an elevator does not meet medical emergency service cab size, per the California Building Code (CBC), use of stairways for emergency rescue and patient transport is acceptable.			X	
2	Access roads, fire lane markings, pavers and gate entrances are in accordance with Title 19, California Code of Regulations and the California Fire Code, Chapter 5.	X			
3	Fire hydrant location and distribution complies with the California Fire Code (or see # 4).	X			
4	Fire hydrant location and distribution complies with NFPA 1142, "Alternate Means." If "NR" is checked, DSA can only approve on-site water storage as an alternate. The signature of the school district official is required to acknowledge the use of alternate means.	X			
	Signature of School District Official: _____ **Date:** _____ **Print the School District Official's Name:**				
5	The location(s) of the proposed post indicator valve and fire department connection meet the requirements of this jurisdiction.			X	
6	The location(s) of the detector check valve assembly meet the requirements of this jurisdiction.			X	
7	Is the project located in a hazard severity zone area? (CBC, Chapter 7A, Section 701A.) ☐ Yes ☒ No Check type if "Yes": ☐ Moderate ☐ High ☐ Very High ☐ WIFA (If one of these boxes is checked, the project design must meet the requirements of Chapter 7A.)				
8	COMMENTS (note deficiencies):				

DSA 810 (rev 05-12-14) DIVISION OF THE STATE ARCHITECT | DEPARTMENT OF GENERAL SERVICES | Page 1 of 1 STATE OF CALIFORNIA

FIRE TRUCK ACCESS

THE DESIGNATION OF THE FIRE LANE(S) SHALL BE INDICATED PER THE CALIFORNIA VEHICLE CODE SECTION 22500.1(3) BY OUTLINING OR PAINTING THE LANES IN RED, AND IN CONTRASTING COLOR, MARKING THE LANES WITH THE WORDS 'FIRE LANE', WHICH ARE CLEARLY VISIBLE FROM A VEHICLE. MARKED FIRE LANES SHALL BE A MINIMUM OF 20'-0" WIDE.

LEGEND: FIRE FIRE FIRE FIRE — FIRE TRUCK ACCESS (FIRE LANE)

(E)FHR — EXISTING FIRE HYDRANT

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OWNER

SOLANO COMMUNITY COLLEGE

CONSULTANT

PROFESSIONAL STAMP:

LICENSED ARCHITECT
FRANCIS F. CHAN
No. C-7519
11/17
RENEWAL DATE
STATE OF CALIFORNIA

PROJECT:

LOUISE WILBOURN YARBROUGH HORTICULTURE & PLANT SCIENCE INSTITUTE

4000 Suisun Valley Rd, Fairfield, CA 94534

REVISIONS

REF	DESCRIPTION	DATE
-	-	-

PROJECT CODE: SCCD-04

START DATE: -

DRAWN BY: -

CHECKED BY: -

SHEET NAME:

SITE PLAN
FIRE MARSHAL REVIEW

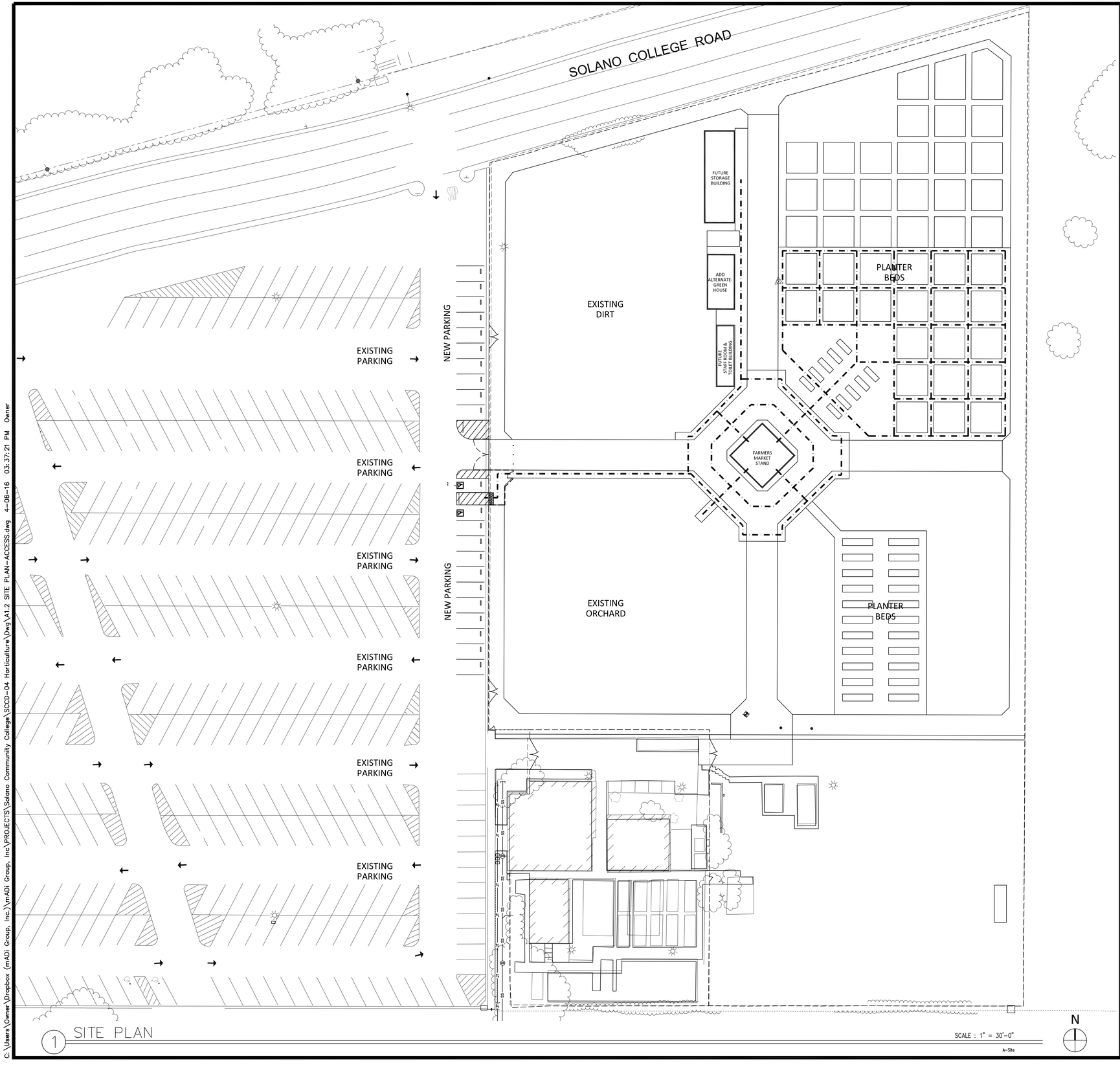
DSA APPROVAL STAMP:

SHEET NUMBER:

A1.1

LOUISE WILBOURN YARBROUGH HORTICULTURE & PLANT SCIENCE INSTITUTE ⊕ SOLANO COMMUNITY COLLEGE DISTRICT

C:\Users\Owner\Dropbox (mADi Group, Inc.)\mADi Group, Inc\PROJECTS\Solano Community College\SCCD-04 Horticulture\Dwg\A1.1 SITE PLAN-FIRE.dwg 12-01-15 04:22:38 PM Owner



1 SITE PLAN

SCALE : 1" = 30'-0"

A-Site

N

PARKING LOT DATA

PARKING LOT	NON-ACCESSIBLE STALLS	ACCESSIBLE STALLS REQUIRED	ACCESSIBLE STALLS PROVIDED
1 (EXISTING)	30	1 VAN, 1 REG.	1 VAN, 1 REG.

ACCESSIBLE PATH OF TRAVEL

ACCESSIBLE PATH OF TRAVEL (P.O.T.) AS INDICATED, IS A COMMON, BARRIER-FREE, FIRM AND SMOOTH ACCESS ROUTE WITHOUT ANY ABRUPT VERTICAL CHANGES EXCEEDING 1/2" BEVELED AT 1:2 MAXIMUM SLOPE. PASSING SPACES AT LEAST 60" X 60" ARE LOCATED NOT MORE THAN 200' APART. PARTS OF P.O.T.WITH CONTINUOUS GRADIENTS HAVE 60" LEVEL AREAS NOT MORE THAN 400' APART. THE CROSS-SLOPE DOES NOT EXCEED 2% AND SLOPE INTHE DIRECTION OT TRAVEL AND IS LESS THAN 5% UNLESS OTHERWISE INDICATED. (POT) SHALL BE MAINTAINED FREE OF OVERHANGING OBSTRUCTIONS TO 80" MINIMUM AND PROTRUDING OBJECTS GREATER THAN 4" PROJECTION FROM WALL AND ABOVE 27" AND LESS THAN 80".

ACCESSIBLE PATH OF TRAVEL (P.O.T.)

NOTE:
"DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE STATEMENT: THIS POT IDENTIFIED IN THESE CONSTRUCTION DOCUMENTS IS COMPLIANT WITH THE CURRENT APPLICABLE CALIFORNIA BUILDING CODE ACCESSIBILITY PROVISIONS FOR PATH OF TRAVEL REQUIREMENTS ALTERATIONS, ADDITIONS AND STRUCTURAL REPAIRS. AS PART OF THE DESIGN OF THIS PROJECT, THE POT WAS EXAMINED AND ANY ELEMENTS, COMPONENTS OR PORTIONS OF THE POT THAT WERE DETERMINED TO BE NONCOMPLIANT 1) HAVE INCLUDED WITHIN THE SCOPE OF THIS PROJECT'S WORK THROUGH DETAILS, DRAWINGS AND SPECIFICATIONS INCORPORATED INTO THESE CONSTRUCTION DOCUMENTS. ANY NONCOMPLIANT ELEMENTS, COMPONENTS OR PORTIONS OF THE POT THAT WILL NOT BE CORRECTED BY THE THIS PROJECT BASED ON VALUATION THRESHOLD LIMITATIONS OR A FINDING OF UNREASONABLE HARDSHIP ARE SO INDICATED IN THESE CONSTRUCTION DOCUMENTS.

DURING CONSTRUCTION, IF POT ITEMS WITHIN THE SCOPE OF THE PROJECT REPRESENTED AS CODE COMPLIANT ARE FOUND TO BE NONCONFORMING BEYOND REASONABLE CONSTRUCTION TOLERANCES, THEY SHALL BE BROUGHT INTO COMPLIANCE WITH THE CBC AS A PART OF THIS PROJECT BY MEANS OF CONSTRUCTION CHANGE DOCUMENT."

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OWNER

SOLANO COMMUNITY COLLEGE

CONSULTANT

PROFESSIONAL STAMP:

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FRANCIS F. CHAN
No. C-7519
11/17
RENEWAL DATE
STATE OF CALIFORNIA

PROJECT:

LOUISE WILBOURN YARBROUGH HORTICULTURE & PLANT SCIENCE INSTITUTE

4000 Suisun Valley Rd,
Fairfield, CA 94534

REVISIONS

REF	DESCRIPTION	DATE
-	-	-

PROJECT CODE: SCCD-04
START DATE: -
DRAWN BY: -
CHECKED BY: -

SHEET NAME:

SITE PLAN

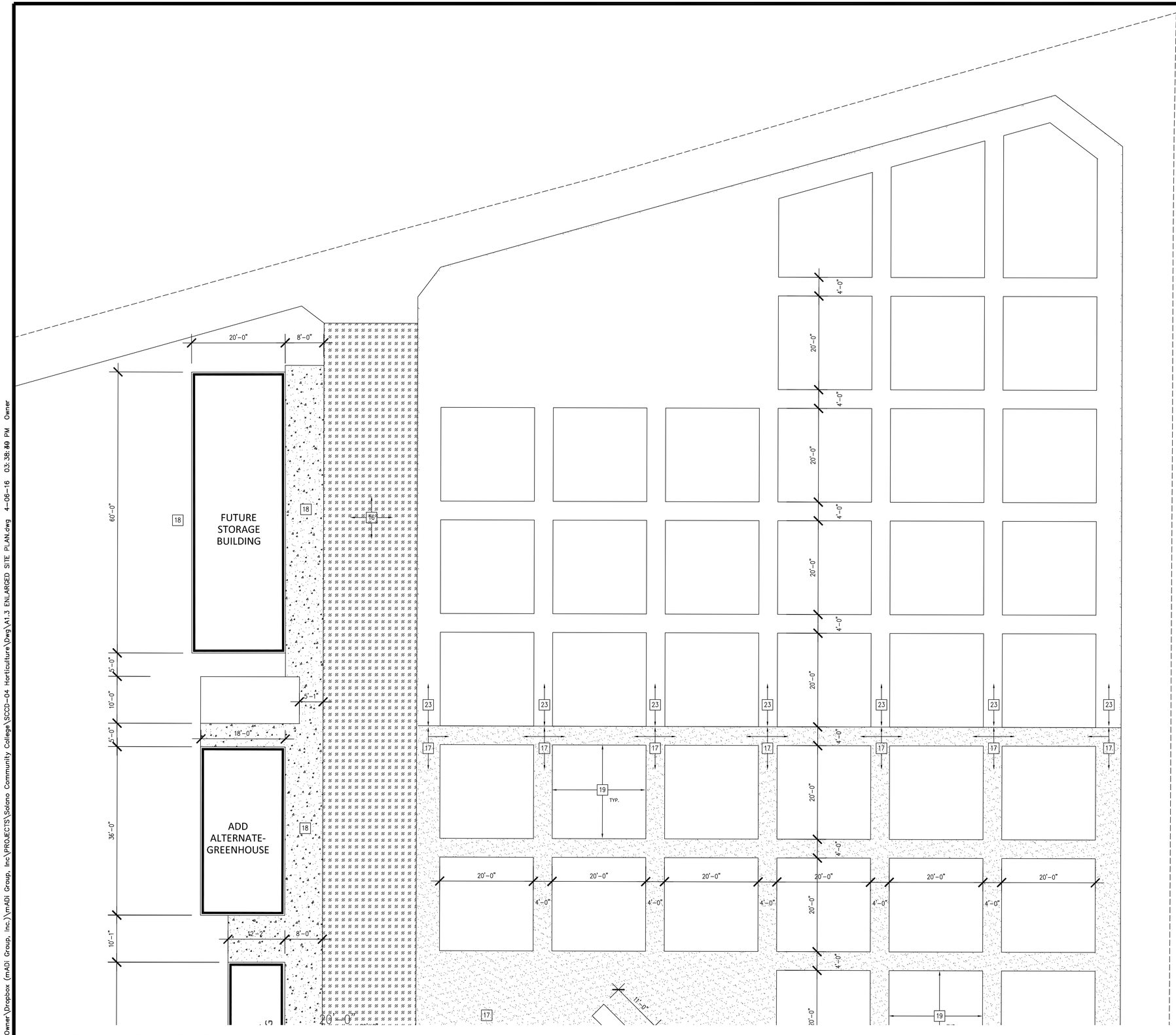
ACCESSIBILITY PLAN

DSA APPROVAL STAMP:

SHEET NUMBER:

A1.2

SOLANO COMMUNITY COLLEGE DISTRICT
LOUISE WILBOURN YARBROUGH HORTICULTURE & PLANT SCIENCE INSTITUTE



1 ENLARGED SITE PLAN

SCALE : 1" = 10'-0"

A-Site

LEGEND

1. DEMOLISH EXISTING FENCE AND/OR GATE
2. EXISTING FENCE TO REMAIN
3. (N) 20'-0" WIDE X 6'-0" HIGH SWING GATE; SEE 6B/A1.9
4. (N) DETECTABLE WARNING STRIPS; SEE 7&8/A1.8
5. (N) 3'-0" WIDE X 6'-0" HIGH SWING GATE; SEE 6A/A1.9
6. (N) ACCESSIBLE PARKING; SEE 1/A1.8
7. (N) PARKING STRIPING
8. (N) WHEELSTOP; SEE 9/A1.8
9. (N) REMOVABLE BOLLARDS; SEE 4/A1.8
10. (N) SIGNAGE; SEE 10/A1.8
11. (N) SIGNAGE; SEE 11/A1.8
12. (N) SIGNAGE; SEE 12/A1.8
13. (N) 4'-0" HIGH CHAINLINK FENCE
14. (N) 6'-0" HIGH CHAINLINK FENCE
15. (N) AC PAVING
16. (N) AB PAVING
17. (N) DG PAVING. PROVIDE REDWOOD HEADER EDGING PER DETAIL 5/A1.8
18. (N) CONCRETE PAVING
19. (N) 20'X20' PLANTERS FLUSH WITH ADJACENT GRADE WITH REDWOOD HEADER EDGING PER DETAIL 5/A1.8
20. (N) 3'-6"X11'-0" PLANTERS
21. (N) 4'-6"X20'-0" PLANTERS
22. (N) 4'-0" HIGH X 5'-0" SLIDING GATE; SEE 1/A1.9. PROVIDE SIGN STATING "ENTRY CONTROLLED AND RESTRICTED BY SECURITY PERSONNEL" PER CBC 11B-404.1 EXCEPTION 1.
23. (E) DIRT
24. (N) SIGNAGE; SEE 3/A1.8

ARCHITECT

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OWNER

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CONSULTANT

PROFESSIONAL STAMP:

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FRANCIS F. CHAN
No. C-7519
11/17
RENEWAL DATE
STATE OF CALIFORNIA

PROJECT:

LOUISE WILBOURN YARBROUGH HORTICULTURE & PLANT SCIENCE INSTITUTE

4000 Suisun Valley Rd,
Fairfield, CA 94534

REVISIONS

REF	DESCRIPTION	DATE
-	-	-

PROJECT CODE:	SCCD-04
START DATE:	-
DRAWN BY:	-
CHECKED BY:	-

SHEET NAME:

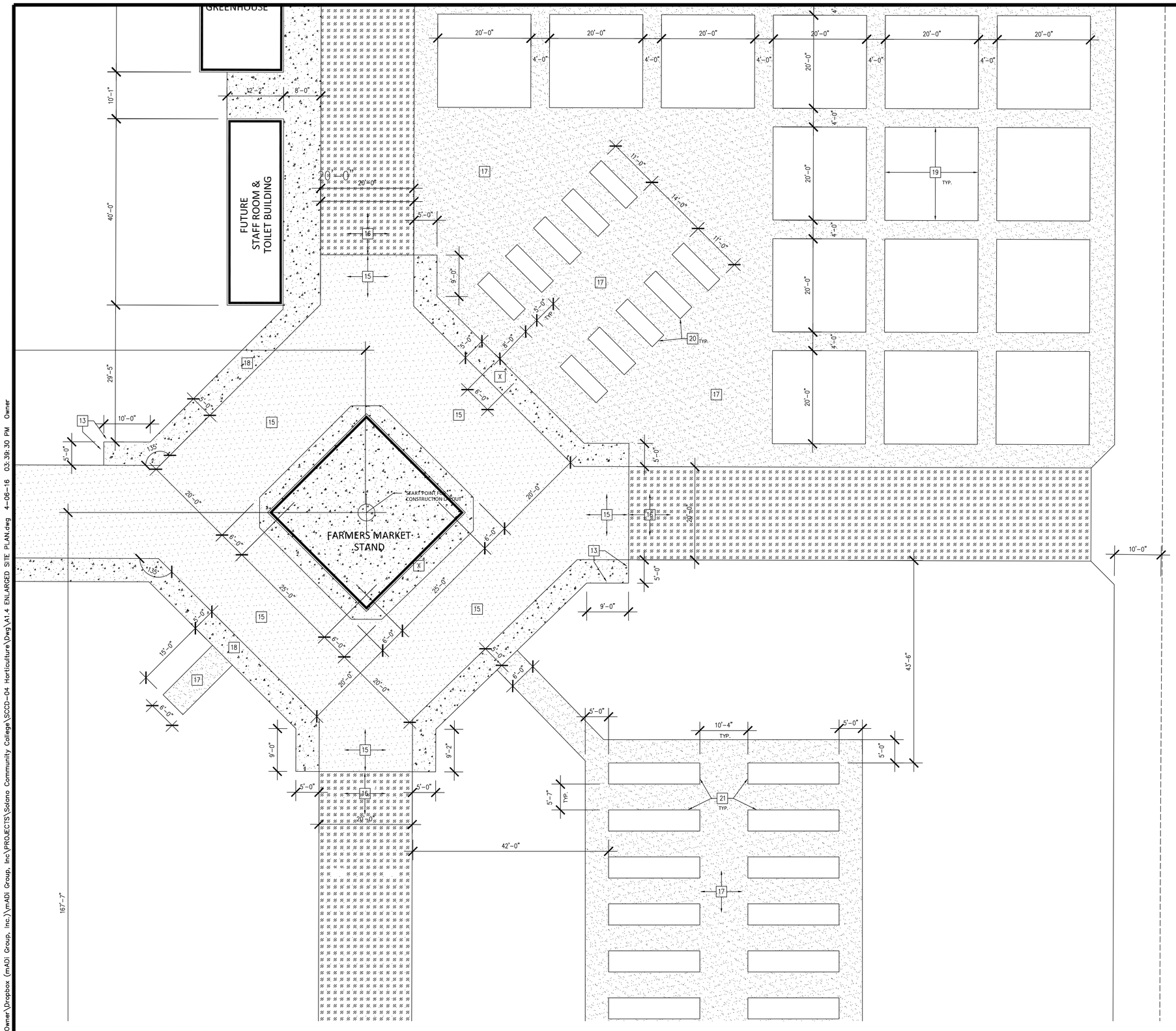
ENLARGED SITE PLAN

DSA APPROVAL STAMP:

SHEET NUMBER:

A1.3

SOLANO COMMUNITY COLLEGE DISTRICT
LOUISE WILBOURN YARBROUGH HORTICULTURE & PLANT SCIENCE INSTITUTE



1 ENLARGED SITE PLAN

SCALE : 1" = 10'-0"

A-Site

LEGEND

1. DEMOLISH EXISTING FENCE AND/OR GATE
2. EXISTING FENCE TO REMAIN
3. (N) 20'-0" WIDE X 6'-0" HIGH SWING GATE; SEE 6B/A1.9
4. (N) DETECTABLE WARNING STRIPS; SEE 7&8/A1.8
5. (N) 3'-0" WIDE X 6'-0" HIGH SWING GATE; SEE 6A/A1.9
6. (N) ACCESSIBLE PARKING; SEE 1/A1.8
7. (N) PARKING STRIPING
8. (N) WHEELSTOP; SEE 9/A1.8
9. (N) REMOVABLE BOLLARDS; SEE 4/A1.8
10. (N) SIGNAGE; SEE 10/A1.8
11. (N) SIGNAGE; SEE 11/A1.8
12. (N) SIGNAGE; SEE 12/A1.8
13. (N) 4'-0" HIGH CHAINLINK FENCE
14. (N) 6'-0" HIGH CHAINLINK FENCE
15. (N) AC PAVING
16. (N) AB PAVING
17. (N) DG PAVING. PROVIDE REDWOOD HEADER EDGING PER DETAIL 5/A1.8
18. (N) CONCRETE PAVING
19. (N) 20'X20' PLANTERS FLUSH WITH ADJACENT GRADE WITH REDWOOD HEADER EDGING PER DETAIL 5/A1.8
20. (N) 3'-6"X11'-0" PLANTERS
21. (N) 4'-6"X20'-0" PLANTERS
22. (N) 4'-0" HIGH X 5'-0" SLIDING GATE; SEE 1/A1.9. PROVIDE SIGN STATING "ENTRY CONTROLLED AND RESTRICTED BY SECURITY PERSONNEL" PER CBC 11B-404.1 EXCEPTION 1.
23. (E) DIRT
24. (N) SIGNAGE; SEE 3/A1.8

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No. C-7519
11/17
RENEWAL DATE
STATE OF CALIFORNIA

PROJECT:

LOUISE WILBOURN YARBROUGH HORTICULTURE & PLANT SCIENCE INSTITUTE

4000 Suisun Valley Rd,
Fairfield, CA 94534

REVISIONS

REF	DESCRIPTION	DATE
-	-	-

PROJECT CODE:	SCCD-04
START DATE:	-
DRAWN BY:	-
CHECKED BY:	-

SHEET NAME:

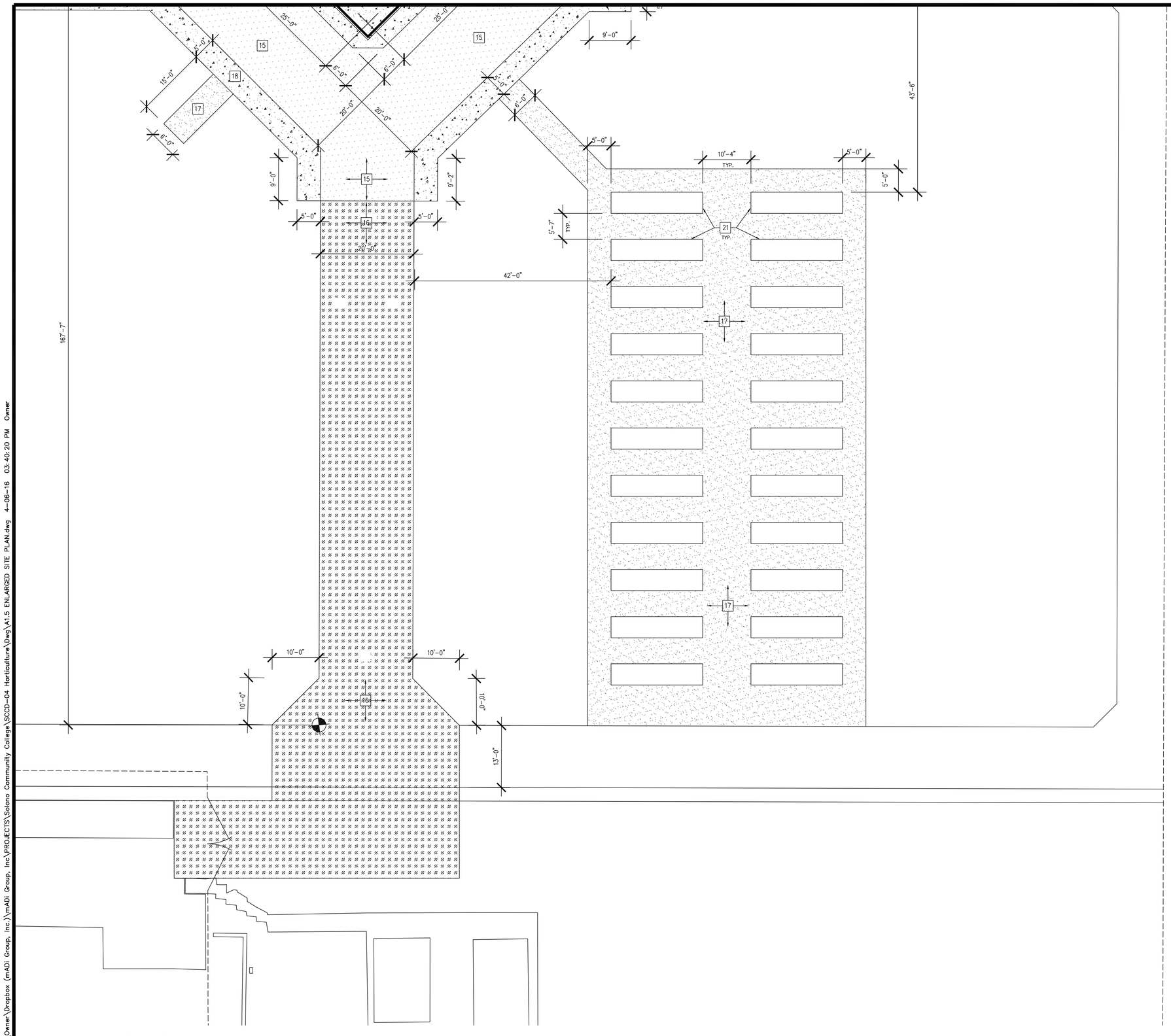
ENLARGED SITE PLAN

DSA APPROVAL STAMP:

SHEET NUMBER:

A1.4

SOLANO COMMUNITY COLLEGE DISTRICT
LOUISE WILBOURN YARBROUGH HORTICULTURE & PLANT SCIENCE INSTITUTE



1 ENLARGED SITE PLAN

SCALE : 1" = 10'-0"

A-Site

LEGEND

1. DEMOLISH EXISTING FENCE AND/OR GATE
2. EXISTING FENCE TO REMAIN
3. (N) 20'-0" WIDE X 6'-0" HIGH SWING GATE; SEE 6B/A1.9
4. (N) DETECTABLE WARNING STRIPS; SEE 7&8/A1.8
5. (N) 3'-0" WIDE X 6'-0" HIGH SWING GATE; SEE 6A/A1.9
6. (N) ACCESSIBLE PARKING; SEE 1/A1.8
7. (N) PARKING STRIPING
8. (N) WHEELSTOP; SEE 9/A1.8
9. (N) REMOVABLE BOLLARDS; SEE 4/A1.8
10. (N) SIGNAGE; SEE 10/A1.8
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16. (N) AB PAVING
17. (N) DG PAVING. PROVIDE REDWOOD HEADER EDGING PER DETAIL 5/A1.8
18. (N) CONCRETE PAVING
19. (N) 20'X20' PLANTERS FLUSH WITH ADJACENT GRADE WITH REDWOOD HEADER EDGING PER DETAIL 5/A1.8
20. (N) 3'-6"X11'-0" PLANTERS
21. (N) 4'-6"X20'-0" PLANTERS
22. (N) 4'-0" HIGH X 5'-0" SLIDING GATE; SEE 1/A1.9. PROVIDE SIGN STATING "ENTRY CONTROLLED AND RESTRICTED BY SECURITY PERSONNEL" PER CBC 11B-404.1 EXCEPTION 1.
23. (E) DIRT
24. (N) SIGNAGE; SEE 3/A1.8

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OWNER

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11/17
RENEWAL DATE
STATE OF CALIFORNIA

PROJECT:

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Fairfield, CA 94534

REVISIONS

REF	DESCRIPTION	DATE
-	-	-

PROJECT CODE: SCCD-04

START DATE: -

DRAWN BY: -

CHECKED BY: -

SHEET NAME:

ENLARGED SITE PLAN

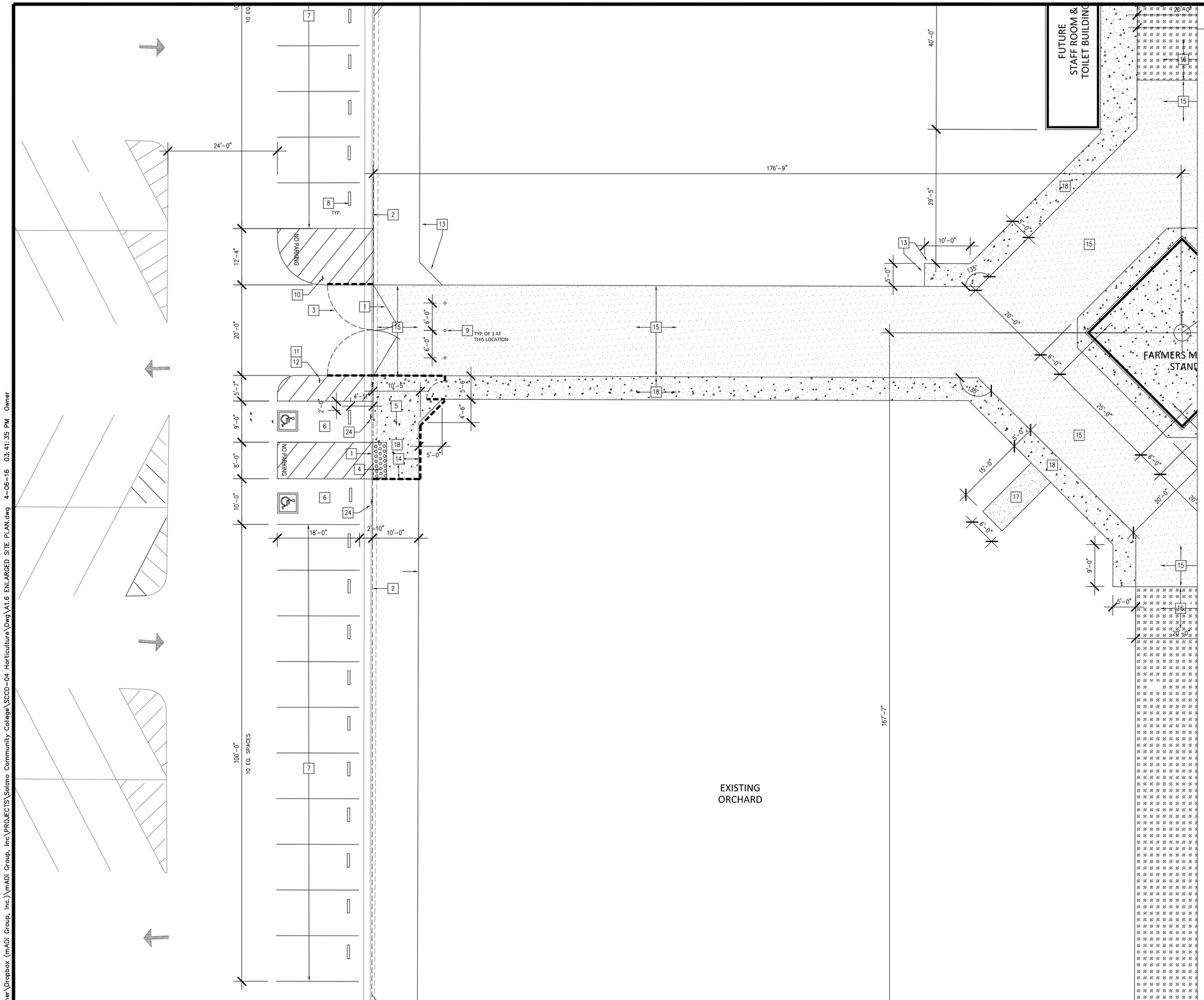
DSA APPROVAL STAMP:

SHEET NUMBER:

A1.5

LOUISE WILBOURN YARBROUGH HORTICULTURE & PLANT SCIENCE INSTITUTE ⊕ SOLANO COMMUNITY COLLEGE DISTRICT

C:\Users\Owner\Dropbox (mADI Group, Inc.)\mADI Group, Inc\PROJECTS\Solano Community College\SCCD-04 Horticulture\Dwg\A1.5 ENLARGED SITE PLAN.dwg 4-06-16 03:40:20 PM Owner



1 ENLARGED SITE PLAN

SCALE : 1" = 10'-0"

A-Site

LEGEND

1. DEMOLISH EXISTING FENCE AND/OR GATE
2. EXISTING FENCE TO REMAIN
3. (N) 20'-0" WIDE X 6'-0" HIGH SWING GATE; SEE 6B/A1.9
4. (N) DETECTABLE WARNING STRIPS; SEE 7&8/A1.8
5. (N) 3'-0" WIDE X 6'-0" HIGH SWING GATE; SEE 6A/A1.9
6. (N) ACCESSIBLE PARKING; SEE 1/A1.8
7. (N) PARKING STRIPING
8. (N) WHEELSTOP; SEE 9/A1.8
9. (N) REMOVABLE BOLLARDS; SEE 4/A1.8
10. (N) SIGNAGE; SEE 10/A1.8
11. (N) SIGNAGE; SEE 11/A1.8
12. (N) SIGNAGE; SEE 12/A1.8
13. (N) 4'-0" HIGH CHAINLINK FENCE
14. (N) 6'-0" HIGH CHAINLINK FENCE
15. (N) AC PAVING
16. (N) AB PAVING
17. (N) DG PAVING. PROVIDE REDWOOD HEADER EDGING PER DETAIL 5/A1.8
18. (N) CONCRETE PAVING
19. (N) 20'X20' PLANTERS FLUSH WITH ADJACENT GRADE WITH REDWOOD HEADER EDGING PER DETAIL 5/A1.8
20. (N) 3'-6"X11'-0" PLANTERS
21. (N) 4'-6"X20'-0" PLANTERS
22. (N) 4'-0" HIGH X 5'-0" SLIDING GATE; SEE 1/A1.9. PROVIDE SIGN STATING "ENTRY CONTROLLED AND RESTRICTED BY SECURITY PERSONNEL" PER CBC 11B-404.1 EXCEPTION 1.
23. (E) DIRT
24. (N) SIGNAGE; SEE 3/A1.8

ARCHITECT

MADI
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303 POTRERO STREET, SUITE 7B
SANTA CRUZ, CA 95060

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OWNER

SOLANO COMMUNITY COLLEGE

CONSULTANT

PROFESSIONAL STAMP:

LICENSED ARCHITECT
FRANCIS F. CHAN
No. C-7519
11/17
RENEWAL DATE
STATE OF CALIFORNIA

PROJECT:

LOUISE WILBOURN YARBROUGH HORTICULTURE & PLANT SCIENCE INSTITUTE

4000 Suisun Valley Rd,
Fairfield, CA 94534

REVISIONS

REF	DESCRIPTION	DATE
-	-	-

PROJECT CODE:	SCCD-04
START DATE:	-
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CHECKED BY:	-

SHEET NAME:

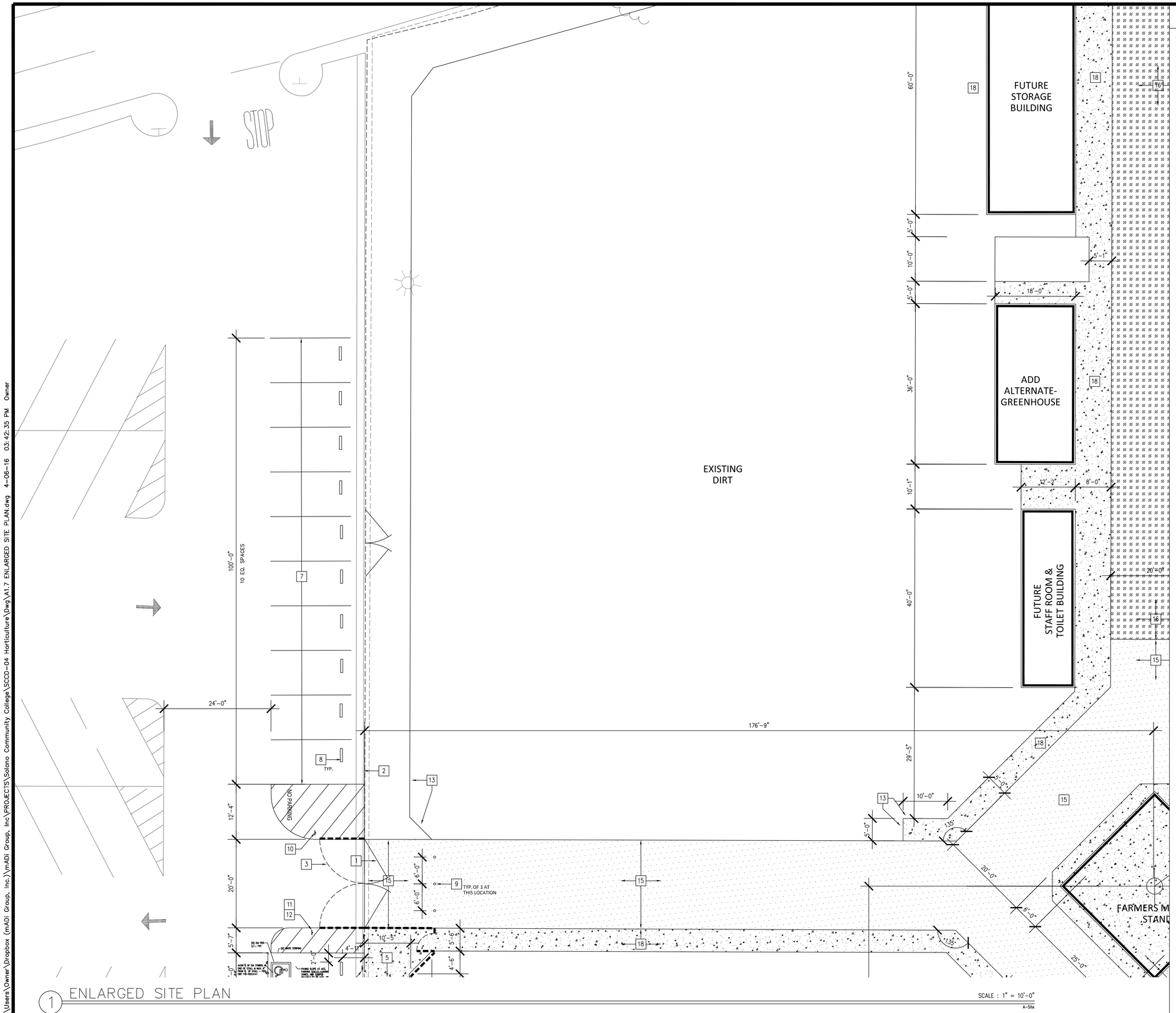
ENLARGED SITE PLAN

DSA APPROVAL STAMP:

SHEET NUMBER:

A1.6

SOLANO COMMUNITY COLLEGE DISTRICT
LOUISE WILBOURN YARBROUGH HORTICULTURE & PLANT SCIENCE INSTITUTE



1 ENLARGED SITE PLAN

SCALE : 1" = 10'-0"

A-Site

LEGEND

1. DEMOLISH EXISTING FENCE AND/OR GATE
2. EXISTING FENCE TO REMAIN
3. (N) 20'-0" WIDE X 6'-0" HIGH SWING GATE; SEE 6B/A1.9
4. (N) DETECTABLE WARNING STRIPS; SEE 7&8/A1.8
5. (N) 3'-0" WIDE X 6'-0" HIGH SWING GATE; SEE 6A/A1.9
6. (N) ACCESSIBLE PARKING; SEE 1/A1.8
7. (N) PARKING STRIPING
8. (N) WHEELSTOP; SEE 9/A1.8
9. (N) REMOVABLE BOLLARDS; SEE 4/A1.8
10. (N) SIGNAGE; SEE 10/A1.8
11. (N) SIGNAGE; SEE 11/A1.8
12. (N) SIGNAGE; SEE 12/A1.8
13. (N) 4'-0" HIGH CHAINLINK FENCE
14. (N) 6'-0" HIGH CHAINLINK FENCE
15. (N) AC PAVING
16. (N) AB PAVING
17. (N) DG PAVING. PROVIDE REDWOOD HEADER EDGING PER DETAIL 5/A1.8
18. (N) CONCRETE PAVING
19. (N) 20'X20' PLANTERS FLUSH WITH ADJACENT GRADE WITH REDWOOD HEADER EDGING PER DETAIL 5/A1.8
20. (N) 3'-6"X11'-0" PLANTERS
21. (N) 4'-6"X20'-0" PLANTERS
22. (N) 4'-0" HIGH X 5'-0" SLIDING GATE; SEE 1/A1.9. PROVIDE SIGN STATING "ENTRY CONTROLLED AND RESTRICTED BY SECURITY PERSONNEL" PER CBC 11B-404.1 EXCEPTION 1.
23. (E) DIRT
24. (N) SIGNAGE; SEE 3/A1.8

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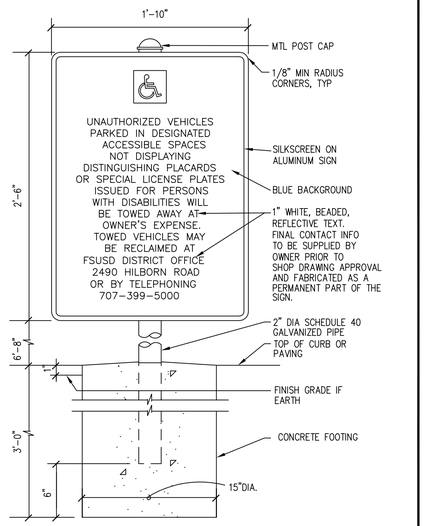
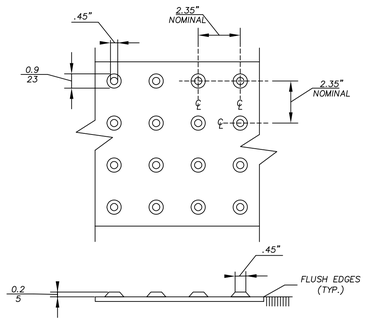
SOLANO COMMUNITY COLLEGE DISTRICT
LOUISE WILBOURN YARBROUGH HORTICULTURE & PLANT SCIENCE INSTITUTE



10 UNAUTHORIZED PKNG. SIGN

1 1/2" = 1'-0"

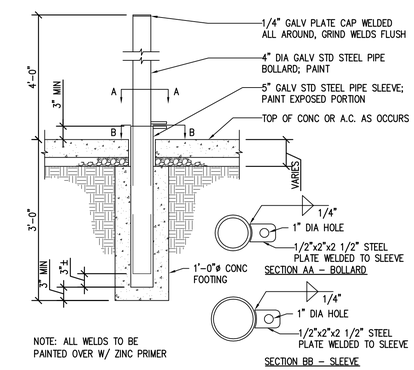
-004 -Signs



PROVIDE DETECTABLE WARNINGS (TRUNCATED DOMES) AT CURB RAMPS, BLENDED TRANSITIONS, AND ALL LOCATIONS WHERE THE ACCESSIBLE PATH OF TRAVEL CROSSES A VEHICULAR WAY, PER CBC 11B-406.5.12 & 11B-705. SEE SITE PLANS FOR LOCATIONS.

7 TRUCNATED DOMES

N.T.S.

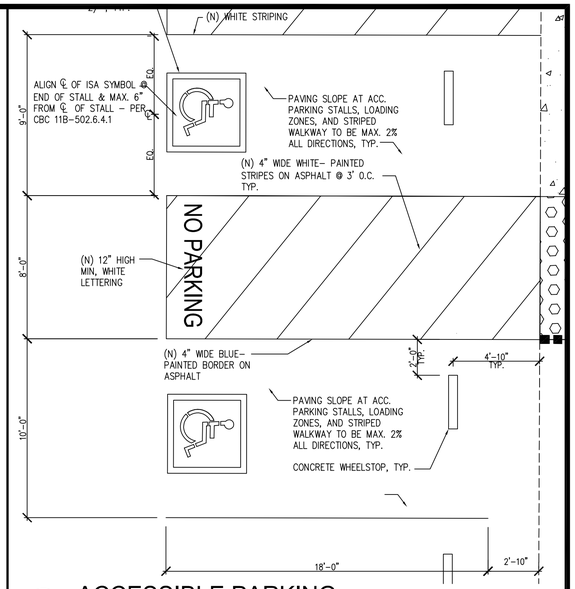


NOTE: ALL WELDS TO BE PAINTED OVER W/ ZINC PRIMER

4 (N) REMOVABLE BOLLARD

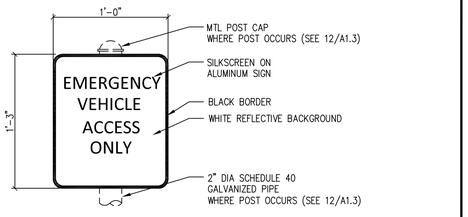
3/4" = 1'-0"

-008 -08_A1.3 -RG



1 ACCESSIBLE PARKING

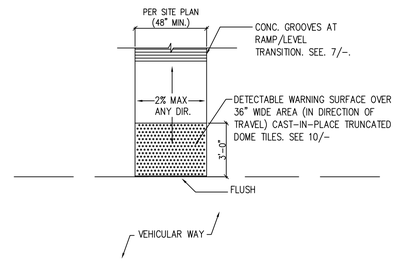
SCALE 1/4: =1'-0"



11 EMERGENCY VEHICLE SIGN

1 1/2" = 1'-0"

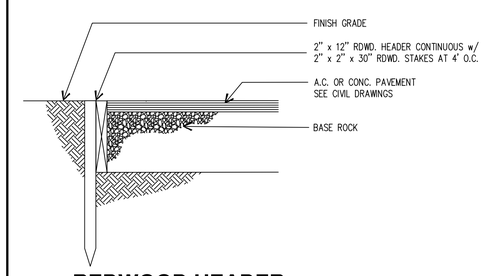
-004 -SIGNS



8 (N) DETECTABLE WARNINGS @ VEHICLULAR CROSSINGS

1/4" = 1'-0"

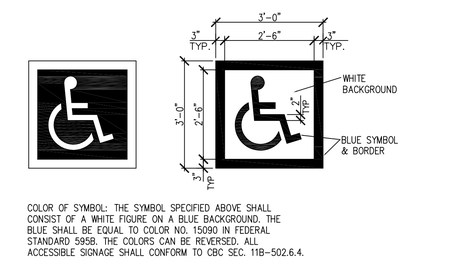
-048 -CurbCutRamp3



5 REDWOOD HEADER

SCALE : 1"=1'-0"

-REDWOOD HEADER

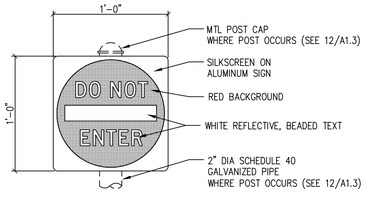


COLOR OF SYMBOL: THE SYMBOL SPECIFIED ABOVE SHALL CONSIST OF A WHITE FIGURE ON A BLUE BACKGROUND. THE BLUE SHALL BE EQUAL TO COLOR NO. 15090 IN FEDERAL STANDARD 595B. THE COLORS CAN BE REVERSED. ALL ACCESSIBLE SIGNAGE SHALL CONFORM TO CBC SEC. 11B-502.6.4. CONTRACTOR TO CONFIRM PRIOR TO ORDERING PAINT.

2 (N) ACCESSIBLE PARKING SYMB

1/2" = 1'-0"

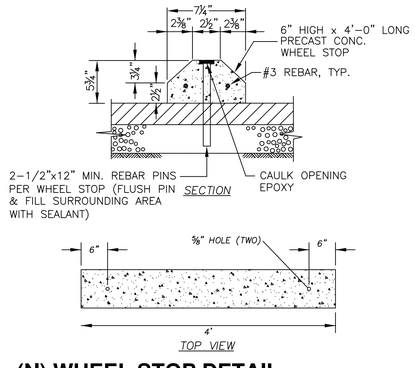
-004 -AccParkingSymb



12 DO NOT ENTER SIGN CALTRANS R5-1

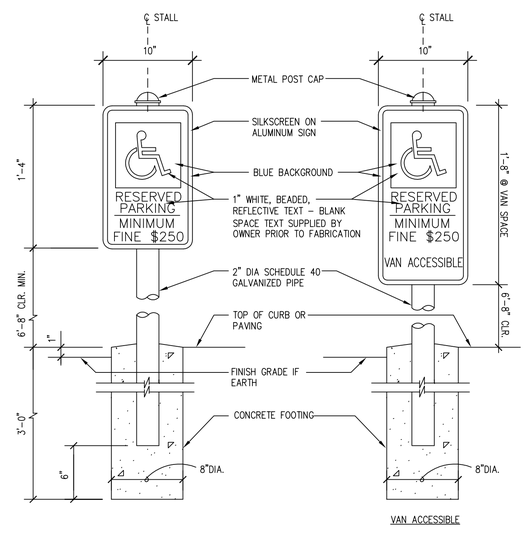
1 1/2" = 1'-0"

-004 -SIGNS



9 (N) WHEEL STOP DETAIL

N.T.S.



3 (N) ACCESSIBLE PARKING SIGN

1 1/2" = 1'-0"

-004 -AccParkingSign

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LOUISE WILBOURN YARBROUGH HORTICULTURE & PLANT SCIENCE INSTITUTE ⊕ SOLANO COMMUNITY COLLEGE DISTRICT

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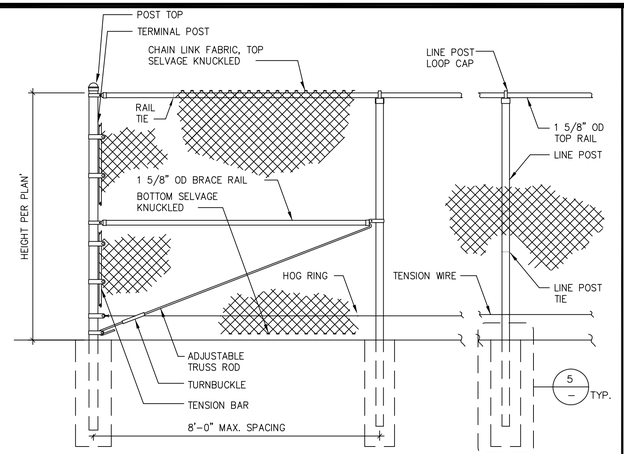
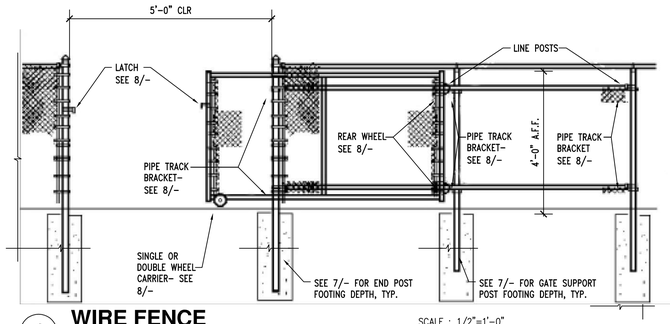


4 FENCE ELEVATION
CHAIN LINK

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

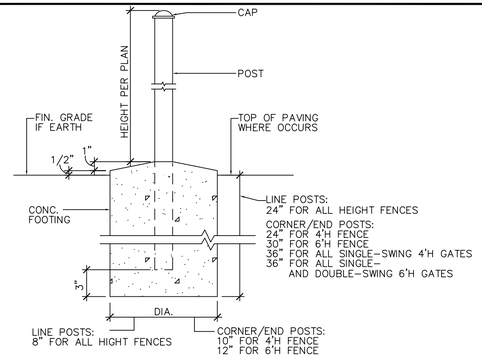
CLFence01



1 WIRE FENCE
ROLLING GATE

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

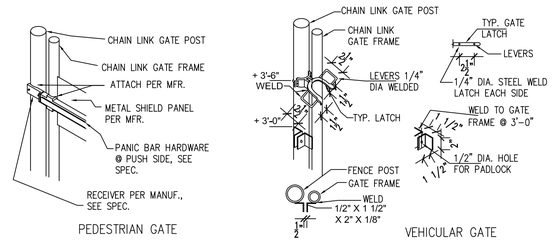
ChainlinkRollingGate



5 WIRE FENCE POST FOOTING

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

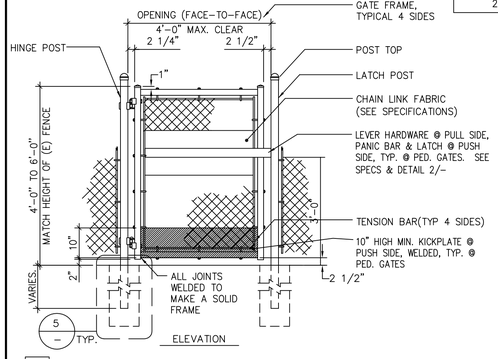
ChainLinkPost



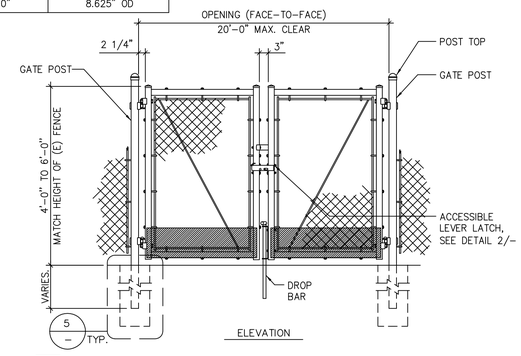
2 SWING GATE HARDWARE

SCALE : 1"=1'-0"

SINGLE SWING GATES		DOUBLE-SWING GATES	
OPENING FACE TO FACE	GATE POSTS SQ & RND SIZES	OPENING FACE TO FACE	GATE POSTS SQ & RND SIZES
3'-0" THROUGH 6'-0"	2 1/2" SQ OR 2.875" OD	8'-0" THROUGH 12'-0"	2 1/2" SQ OR 2.875" OD
7'-0" THROUGH 10'-0"	3" SQ OR 4" OD	14'-0" THROUGH 24'-0"	3" SQ OR 4" OD
11'-0" THROUGH 12'-0"	4" SQ OR 4" OD	26'-0" THROUGH 36'-0"	6" SQ OR 6.625" OD
13'-0" THROUGH 18'-0"	6" SQ OR 6.625" OD	38'-0" THROUGH 40'-0"	8" SQ OR 8.625" OD
19'-0" THROUGH 20'-0"	8" SQ OR 8.625" OD		



A SINGLE GATE
PROVIDE PANIC HARDWARE

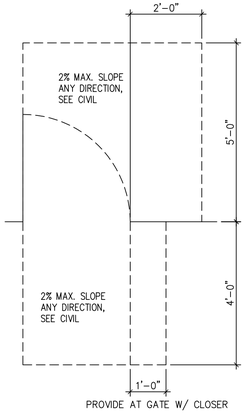


B DOUBLE GATE
(SEE DETAIL A "SINGLE GATE", FOR INFORMATION NOT SHOWN)
PROVIDE PANIC HARDWARE

6 TYPICAL SWING GATES
CHAIN LINK

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

CLFence02



GENERAL NOTE: GATES IN PATH OF TRAVEL MUST COMPLY WITH EXIT DOOR REQUIREMENTS (SECTION 11B-404). PROVIDE LEVER, KICK PLATES, 5lbs PRESSURE TO OPERATE AND STRIKE SIDE CLEARANCE.

C:\Users\Owner\Dropbox (mADi Group, Inc.)\mADi Group, Inc\PROJECTS\Solano Community College\SCCD-04 Horticulture\Dwg\A1.9 FENCE DETAILS.dwg 4-06-16 03:44:37 PM Owner

ARCHITECT

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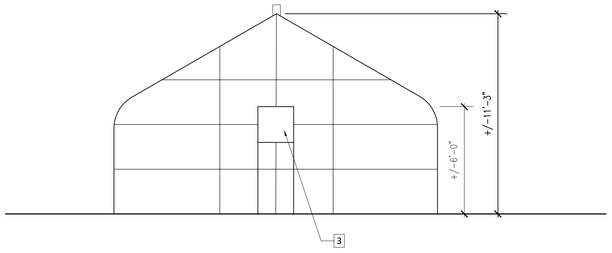
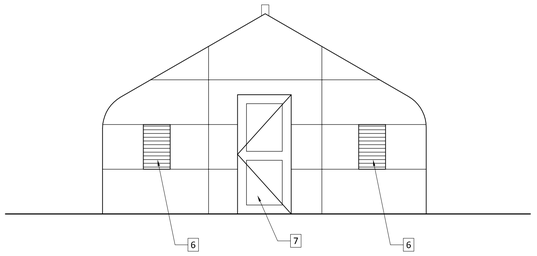
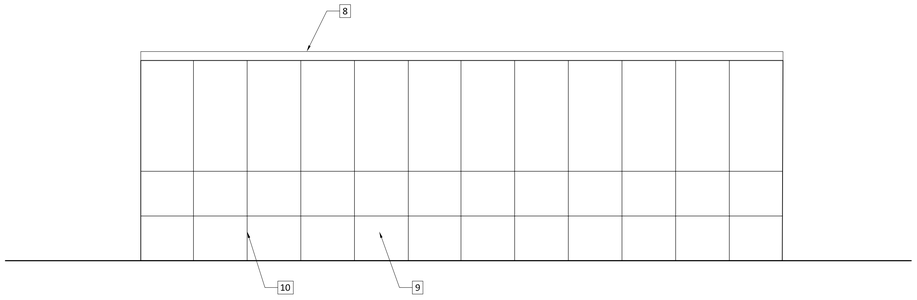
LOUISE WILBOURN YARBROUGH HORTICULTURE & PLANT SCIENCE INSTITUTE + SOLANO COMMUNITY COLLEGE DISTRICT



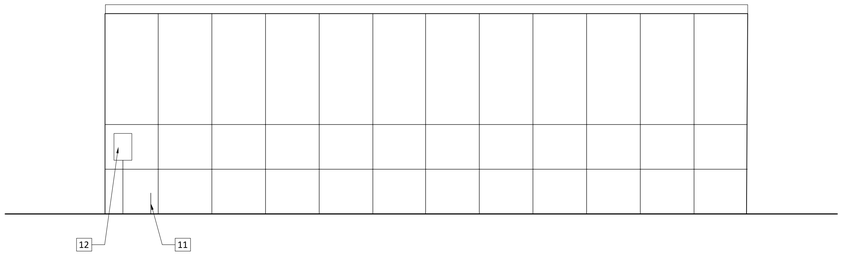
2 NORTH ELEVATION SCALE : 1/4" = 1'-0"



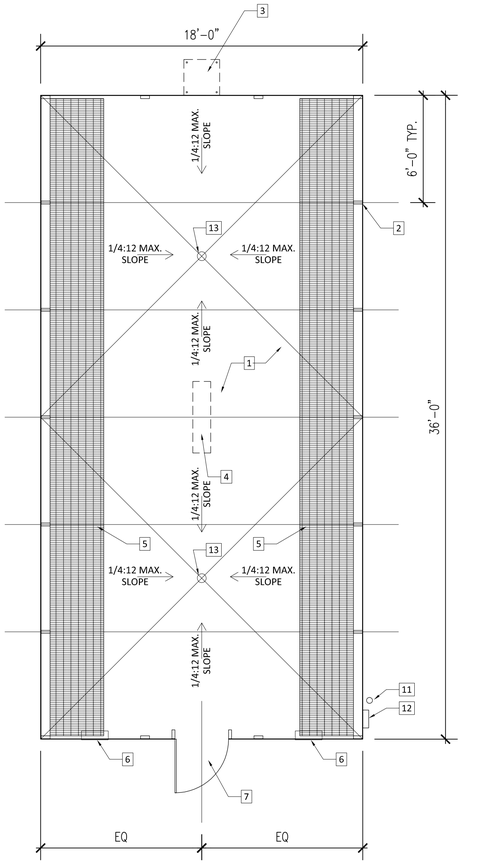
3 SOUTH ELEVATION SCALE : 1/4" = 1'-0"



4 EAST ELEVATION SCALE : 1/4" = 1'-0"



5 WEST ELEVATION SCALE : 1/4" = 1'-0"



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

N

LEGEND

1. CONCRETE FLOOR SLAB & FOOTINGS. SLOPE TO DRAIN, 1/4:12 MAX.
2. GALVANIZED STEEL BLDG. FRAME, TYP. ROLL-FORMED. ALL FASTENER HOLES PRE-DRILLED PRIOR TO GALVANIZATION.
3. EVAPORATIVE COOLER, 3/4 HP, W/ THRU-WALL LOUVERED VENT & SUPPORT LEGS BY MFR.
4. 60,000 BTU GAS HEATER, ABOVE. HANGER HARDWARE BY MFR.
5. 3'-0" WIDE, FULL-LENGTH BUILT-IN METAL SHELF W/ EXPANDED METAL SURFACE, TYP.
6. LOUVERED THRU-WALL VENT W/ 12" DIA. AIRFLOW FAN, TYP.
7. 3'-0" X 6'-8" DOOR W/ GLAZED LITES & LOCKING ACCESSIBLE LEVER HARDWARE
8. MOTORIZED RIDGE VENT ASSEMBLY, FULL LENGTH OF BLDG.
9. GLAZED WALL PANELS, TYP. 6mm DUAL-WALL POLYCARB PANELS, UV CONTROL @ EXTERIOR, CONDENSATION CONTROL @ INTERIOR.
10. ANOD. ALUMINUM EXTRUSIONS @ ALL PANEL JOINTS, TYP.
11. APPROX. LOCATION OF NEW GAS CONNECTION, SEE SITEWORK DRAWINGS
12. APPROX. LOCATION OF NEW ELECTRICAL CONNECTION & PANEL, SEE SITEWORK DRAWINGS
13. NEW AREA DRAIN BY SITE CONTRACTOR, CONNECT TO SITE SEWER LINE, SEE SITEWORK DRAWINGS

ADD ALTERNATE-1

PROVIDE CONLEY'S OR EQUAL. SEE MANUFACTURER'S DRAWINGS FOR SPECIFICATIONS

GENERAL NOTES

1. THESE DRAWINGS ARE TO SHOW DESIGN INTENT ONLY. BUILDING MFR. TO PROVIDE FINAL CONSTRUCTION DRAWINGS TO ARCHITECT FOR REVIEW.
2. UTILITY LINES WITHIN 5' OF BUILDING FOOTPRINT ARE TO BE INSTALLED BY BUILDING CONTRACTOR, IN COORDINATION WITH SITE CONTRACTOR.
3. FIRE ALARM SYSTEM WITHIN BUILDING TO BE INSTALLED BY SITE CONTRACTOR, IN COORDINATION WITH BUILDING MFR.
4. BUILDING TO COMPLY WITH ALL APPLICABLE PROVISIONS OF THE 2013 CALIFORNIA BUILDING CODE.
5. BUILDING FOUNDATION TO BE CAST-IN-PLACE CONCRETE SLAB AND FOOTINGS, BY BUILDING CONTRACTOR.
6. BUILDING PAD TO BE PROVIDED BY SITE CONTRACTOR PER BUILDING MFR'S REQUIREMENTS.

ARCHITECT

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ADD ALTERNATE-GREENHOUSE PLANS AND ELEVATIONS

DSA APPROVAL STAMP:

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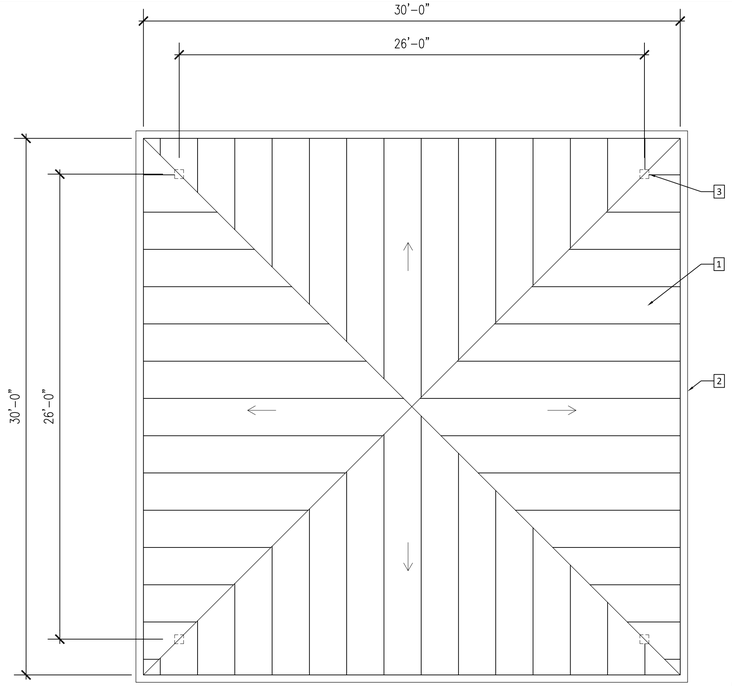
A2.3A

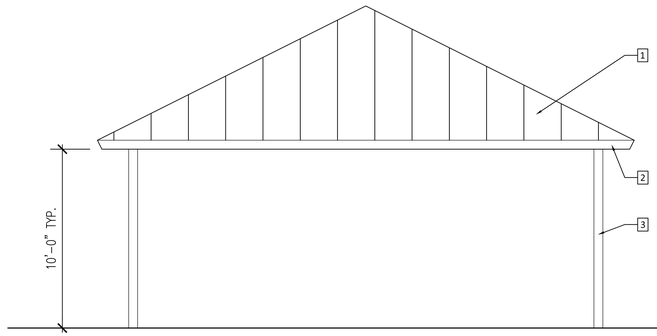
SOLANO COMMUNITY COLLEGE DISTRICT
LOUISE WILBOURN YARBROUGH HORTICULTURE & PLANT SCIENCE INSTITUTE



1 PLAN

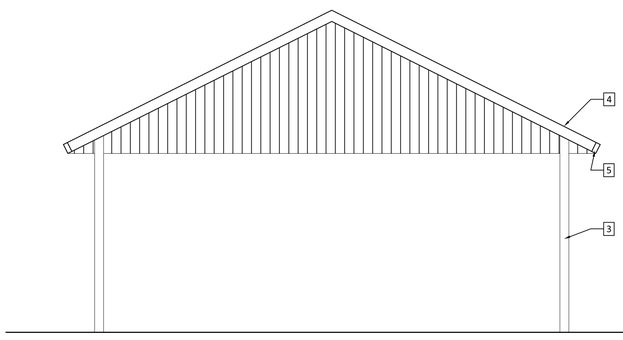
SCALE : 1/4" = 1'-0"

N



2 SOUTH ELEVATION

SCALE : 1/4" = 1'-0"



3 SECTION

SCALE : 1/4" = 1'-0"

LEGEND

1. STANDING SEAM METAL ROOFING SYSTEM, TYP. 24 GA. MIN. "COOL ROOF" FINISH.
2. GALV. SHEET METAL GUTTER, FINISH TO MATCH ROOFING PANELS, TYP. PROVIDE DOWNSPOUT TO GRADE AT EACH POST
3. SUPPORT POST, TYP. PER MFR. SQUARE HSS STEEL TUBE W/ CAST-IN-PLACE CONCRETE FOOTING. ALL SURFACES PAINTED.
4. ROOF STRUCTURE PER MFR, TYP. HSS STEEL TUBES THROUGHOUT, W/ WELDED OR CONCEALED BOLTED CONNECTIONS. ALL SURFACES PAINTED.
5. EAVE BEAM, HSS STEEL TUBE SIM. TO ROOF STRUCTURE. ALL SURFACES PAINTED
6. CEILING FAN, SUSPEND FROM HIGH POINT OF ROOF FRAMING. CONCEAL ELECTRICAL CONDUIT INSIDE STEEL FRAMING.
7. NOT USED

REFER TO MANUFACTURER DRAWINGS FOR STRUCTURE PROVIDED WITH THIS BID SET
NO SUBSTITUTIONS ALLOWED

GENERAL NOTES

1. THESE DRAWINGS ARE TO SHOW DESIGN INTENT ONLY. BUILDING MFR. TO PROVIDE FINAL DRAWINGS TO ARCHITECT, FOR DSA REVIEW AND APPROVAL.
2. UTILITY LINES WITHIN 5' OF BUILDING FOOTPRINT ARE TO BE INSTALLED BY BUILDING CONTRACTOR, IN COORDINATION WITH SITE CONTRACTOR.
3. FIRE ALARM SYSTEM WITHIN BUILDING TO BE INSTALLED BY SITE CONTRACTOR, IN COORDINATION WITH BUILDING MFR.
4. BUILDING TO COMPLY WITH ALL APPLICABLE PROVISIONS OF THE 2013 CALIFORNIA BUILDING CODE.
5. BUILDING FLOOR/FOUNDATION SYSTEM TO BE CAST-IN-PLACE CONCRETE FOOTINGS, BY BUILDING CONTRACTOR.
6. BUILDING PAD TO BE PROVIDED BY SITE CONTRACTOR PER BUILDING MFR'S REQUIREMENTS.
7. PAVEMENT UNDER AND ADJACENT TO BUILDING TO BE PROVIDED BY SITE CONTRACTOR.

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LICENSED ARCHITECT
FRANCIS F. CHAN
No. C-7519
11/17
RENEWAL DATE
STATE OF CALIFORNIA

PROJECT:

LOUISE WILBOURN YARBROUGH HORTICULTURE & PLANT SCIENCE INSTITUTE

4000 Suisun Valley Rd,
Fairfield, CA 94534

REVISIONS

REF	DESCRIPTION	DATE
-	-	-

PROJECT CODE:	SCCD-04
START DATE:	-
DRAWN BY:	-
CHECKED BY:	-

SHEET NAME:

FARM STAND PLANS AND ELEVATIONS

DSA APPROVAL STAMP:

SHEET NUMBER:

A2.5A

SOLANO COMMUNITY COLLEGE DISTRICT
LOUISE WILBOURN YARBROUGH HORTICULTURE & PLANT SCIENCE INSTITUTE

C:\Users\Owner\Dropbox (mADi Group, Inc.)\mADi Group, Inc\PROJECTS\Solano Community College\SCCD-04 Horticulture\Dwg\A2.5A FARMSTAND.dwg 4-06-16 03:57:17 PM Owner

GENERAL NOTES:

1. MOUNTING HEIGHT IS TO THE CENTER OF EQUIPMENT, U.O.N. MOUNTING HEIGHTS OF SUSPENDED LIGHT FIXTURES ARE TO THE BOTTOM OF THE FIXTURE. U.O.N.
2. RECEPTACLES AND DEVICES INSTALLED ABOVE COUNTER SHALL HAVE THE BOTTOM OF COVER PLATE AT APPROX 2-INCHES ABOVE COUNTER OR BACKSPLASH.
3. CAP ALL EMPTY CONDUITS FOR FUTURE USE WATERTIGHT WITH MANUFACTURERS END CAP, WITH PULL STRING ATTACHED.
4. SEAL ALL EXTERIOR WALL PENETRATIONS WATERTIGHT WITH SILICONE GROUT.
5. SEAL ALL WALL AND CEILING PENETRATIONS WITH GROUT. WHERE CONDUITS PENETRATE FIRE RATED BARRIERS, SEAL PENETRATIONS WITH FIRE RATED COMPOUND TO MATCH OR EXCEED BARRIER RATING.
6. PENETRATIONS OF FIRE RATED ASSEMBLIES SHALL BE SEALED AS REQUIRED BY CBC.
7. ALL CONDUITS AND BOXES ON THE EXTERIOR SHALL BE PAINTED TO MATCH THE ADJACENT FINISH.
8. WHERE FIRE RATED CONSTRUCTION IS REQUIRED (REFER TO ARCHITECTURAL DRAWINGS), DO NOT LOCATE ELECTRICAL OUTLET BOXES BACK-TO-BACK. PROVIDE MINIMUM 24" HORIZONTAL SEPARATION BETWEEN OUTLET BOXES PER CBC.
9. FIRE STOPPING SHALL BE PROVIDED WHERE PENETRATING ITEMS PASS ENTIRELY THROUGH BOTH PENETRATIVE MEMBRANES OF BEARING WALLS REQUIRED TO HAVE A FIRE-RESISTIVE RATING AND WALLS REQUIRING PROTECTED OPENINGS. FIRE STOPPING SHALL ALSO BE PROVIDED AT PENETRATIONS OF FIRE RESISTIVE FLOORS AND FLOORS WHICH ARE PART OF A CEILING-FLOOR ASSEMBLY. FIRE-STOPPING SHALL HAVE AN "F" AND/OR "T" RATING AS DETERMINED BY TESTS CONDUCTED IN ACCORDANCE WITH CBC STD. 43-6.
10. JUNCTION BOXES, CABINETS, EQUIPMENT ENCLOSURES, SWITCHES, PANELS, ETC. INSTALLED OUTDOORS, OR IN WET OR DAMP LOCATIONS, SHALL BE RATED NEMA-3R FOR OUTDOOR ENVIRONMENTS. PROVIDE MINIMUM 1/4" AIR GAP BETWEEN ENCLOSURE AND WALL SURFACE. PROVIDE GALVANIZED METAL CHANNELS FOR MOUNTING ENCLOSURE ONTO WALL AS REQUIRED.
11. ALL BOXES FOR LIGHT SWITCHES SHALL HAVE CIRCUIT ID HANDWRITTEN (WITH PERMANENT FELT PEN) ON THE BACK INSIDE OF THE BOX.
12. ALL RECEPTACLES SHALL HAVE CIRCUIT ID ON THE COVERPLATE. USE TYPEWRITTEN "CLEAR TAPE". CLEAN SURFACE BEFORE ADHESIVE TAPE IS APPLIED. SAMPLE, "HA-11".
13. ALL WIRING SHALL BE IN CONDUIT, ALL CIRCUITS SHALL BE CONCEALED EXCEPT THAT ON EXISTING SURFACE AND IN DRY LOCATIONS WHERE NECESSARY AND ACCEPTABLE TO THE ARCHITECT, SURFACE METAL RACEWAY (SMR) CAN BE USED, WIREMOLD OR EQUAL. 1/2" CONDUIT WITH LESS THAN 5#12 WIRES SHALL CORRESPOND TO A V200 RACEWAY, OTHERWISE USE V500; 3/4" CONDUIT SHALL CORRESPOND TO A V700; 1" CONDUIT SHALL CORRESPOND TO A V2000; 1-1/4" CONDUIT SHALL CORRESPOND TO A V2400SG. SMR SHALL BE IVORY COLOR AND SHALL BE SECURED TO SURFACES WITH 2 HOLE STRAPS. PROVIDE ALL FITTINGS, ADAPTERS, COUPLINGS, BOXES, ETC. AS REQUIRED FOR A COMPLETE SYSTEM. PROVIDE MATCHING SURFACE OUTLET BOX. PAINT TO MATCH ADJACENT FINISH.
14. DEVICE AND EQUIPMENT HEIGHTS SHALL BE COORDINATED WITH ARCHITECTURAL PLANS AND ELEVATIONS. CONFLICTS SHALL BE ADDRESSED TO THE ARCHITECT PRIOR TO ROUGH-IN.
15. COORDINATE EXACT LOCATION OF EXTERIOR WALL LIGHT FIXTURES, SPEAKERS, ETC. WITH ARCHITECTURAL ELEVATIONS.
16. ELECTRICAL CIRCUITS TO AC UNITS SHALL COME UP INSIDE OF AC CURBS, UNLESS THE AC UNIT DOES NOT ALLOW THIS.
17. IN CERTAIN ROOMS, CIRCUITING AND DEVICES/EQUIPMENT IN ONE ROOM ARE INDICATED TO BE SIMILAR TO ANOTHER ROOM'S. PROVIDE ALL SUCH CONDUIT, WIRING DEVICES, AND EQUIPMENT TO BE THE SAME AS THE OTHER ROOM INDICATED. MAKE NECESSARY MINOR ADJUSTMENTS FOR SIMILAR ROOMS THAT ARE OPPOSITE HAND, FLIP-FLOPPED, MIRRORED, OR MINOR WALL DIFFERENCES. THE FOLLOWING ITEMS ARE NOT INCLUDED IN THIS SIMILAR LAYOUT AND ARE SPECIFIC TO EACH ROOM, UNLESS SPECIFICALLY NOTED OTHERWISE.
    - A. AIR CONDITIONING AND MECHANICAL EQUIPMENT CONNECTIONS.
    - B. EQUIPMENT THAT IS N.I.E.S. BUT REQUIRE ELECTRICAL CONNECTIONS.
    - C. LAYOUT OF THE CABLE SUPPORT SYSTEM (CABLE HOOKS OR CABLE TRAY).
18. NOT USED
19. FOR CONDUITS ROUTED BELOW FOOTING AT ELECTRICAL ROOMS, COORDINATE WITH STRUCTURAL DRAWINGS.

EXISTING CONDITIONS:

1. DEVICES / EQUIPMENT AND CIRCUITING SHOWN AS EXISTING AND/OR EXISTING TO BE REMOVED ARE BASED ON REVIEW OF EXISTING AVAILABLE DOCUMENTS AND VISUAL FIELD VERIFICATION. SUCH INFORMATION MAY NOT BE ACCURATE. PRIOR TO DEMOLITION AND CONSTRUCTION, CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS TO DETERMINE ACCURACY. WHERE EXISTING CONDITIONS DO NOT REFLECT THE INFORMATION SHOWN ON THE PLANS, AND WHERE CONTRACTOR'S INVESTIGATION CANNOT DETERMINE THE PROPER ADJUSTMENTS NEEDED TO MEET THE INTENT OF THE DESIGN, CONTRACTOR SHALL INFORM ARCHITECT.
2. EXISTING CIRCUITS AND HOMERUNS WERE BASED ON EXISTING DOCUMENTS.
3. REMOVED EQUIPMENT SHALL MAINTAIN CIRCUIT CONTINUITY FOR DEVICES / EQUIPMENT CONNECTED TO THE SAME CIRCUIT. EXTEND AND/OR REROUTE THE EXISTING CIRCUITS AS NEEDED.
4. REVISE EXISTING PANEL SCHEDULES TO REFLECT THE NEWLY CONNECTED LOADS AND SPARE CIRCUITS.
5. DO NOT REUSE ANY REMOVED MATERIALS SUCH AS CONDUIT, WIRING, AND BOXES.
6. PRIOR TO COMMENCEMENT OF WORK THE CONTRACTOR SHALL VERIFY AND DOCUMENT WITH THE OWNER THE PROPER FUNCTION AND PHYSICAL APPEARANCE OF EXISTING ELECTRICAL EQUIPMENT (DEVICES, LIGHTING, RECEPTACLES, ETC.) IN THE ROOM AND THE AREAS OF WORK UNDER THIS CONTRACTOR. IF AFTER CONSTRUCTION ANY EXISTING EQUIPMENT IS DAMAGED OR DOES NOT FUNCTION PROPERLY, THE CONTRACTOR SHALL REPAIR OR REPLACE THE EQUIPMENT IN-KIND FOR PROPER FUNCTION AND APPEARANCE.

ELECTRICAL COMPONENT ANCHORAGE NOTE:

ALL ELECTRICAL COMPONENTS SHALL BE ANCHORED & INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. WHERE NO DETAILS IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2013 CBC, SECTIONS 1616A.1.18 THROUGH 1616A.1.26 AND ASCE 7-10 CHAPTER 6 AND 13.

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER.
3. MOVABLE EQUIPMENT WHICH IS STATIONED IN ONE PLACE FOR MORE THAN 8 HOURS AND HEAVIER THAN 400 POUNDS ARE REQUIRED TO BE ANCHORED WITH TEMPORARY ATTACHMENTS.

THE ATTACHMENT OF THE FOLLOWING ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT NEED NOT BE DETAILED ON THE PLANS. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED CONDUIT.

- A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
- B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

FOR THOSE ELEMENTS THAT DO NOT REQUIRED DETAILS ON THE APPROVED DRAWINGS, THE INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD AND THE DSA DISTRICT STRUCTURAL ENGINEER. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS & EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS.

ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE:

ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-10 SECTION 13.3 AS DEFINED IN ASCE 7-10 SECTION 13.6.8, 13.6.7, 13.6.5.6, AND 2013 CBC, SECTIONS 1616A.1.23, 1616A.1.24, 1616A.1.25 AND 1616A.1.26.

THE BRACING AND ATTACHMENTS TO THE STRUCTURE SHALL BE DETAILED ON THE APPROVED DRAWINGS OR THEY SHALL COMPLY WITH ONE OF THE OSHPD PRE-APPROVALS (OPM #) AS MODIFIED TO SATISFY ANCHORAGE REQUIREMENTS OF ACI 318, APPENDIX D.

COPIES OF THE MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF HANGING AND BRACING OF THE ELECTRICAL DISTRIBUTION SYSTEMS.

THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

TERMINAL CABINET SCHEDULE

DESIGNATION	SIZE			MOUNTING		NEMA-1	NEMA-3R
	W	H	D	SURFACE	FLUSH		
FATC-H	14"	24"	6"	■			■
STC-H	14"	24"	6"	■			■

NOTES:

1. ALL TERMINAL CABINETS SHALL BE NEMA-1 WITH HINGED DOORS, CYLINDER TYPE LOCKS, & 3/4" PLYWOOD BACKBOARD, U.O.N.
2. PROVIDE TERMINAL BLOCKS, TYPE AS REQUIRED.
    - A. SIEMENS #66M1-50 WITH 89B STAND-OFF. MAKE FULL USE OF BRIDGE CLIPS.
    - B. BUCHANAN #0525 SERIES. PROVIDE CHANNEL CLAMPS, CHANNEL AND END SECTIONS.

ABBREVIATIONS & DESIGNATIONS

(E)	EXISTING
FA	FIRE ALARM
FABP	FIRE ALARM SIGNAL BOOSTER PANEL
FACP	FIRE ALARM CONTROL PANEL
FATC	FIRE ALARM TERMINAL CABINET
GND	GROUND
MT	EMPTY CONDIT WITH PULL CORD
MTC	CONDUIT WITH WIRING AS INDICATED OR AS REQUIRED
(N)	NEW
NIES	NOT IN ELECTRICAL SECTION OF THESE PLANS AND SPECIFICATIONS
STC	SIGNAL TERMINAL CABINET
UON	UNLESS OTHERWISE NOTED
WP	WEATHERPROOF
15,30,75,110	FIRE ALARM VISUAL DEVICE SUBSCRIPTS- NUMBER INDICATES LIGHT INTENSITY

POWER AND SIGNAL SYSTEMS DURING CONSTRUCTION

1. POWER AND SIGNAL SYSTEMS: SYSTEMS SHUT-DOWNS SHALL BE COORDINATED WITH THE OWNER. SYSTEMS DOWN TIME SHALL OCCUR ONLY ON THE WEEKENDS AND DURING "OFF" HOURS. THE WEEKEND SHALL BE DEFINED AS FROM 5:00 PM FRIDAY TO THE NEXT 6:00 AM MONDAY. "OFF" HOURS SHALL BE DEFINED AS FROM 5:00 PM EVENING TO 6:00 AM THE NEXT MORNING. NORMAL BUSINESS HOURS SHALL BE DEFINED AS 6:00 AM MONDAY TO 5:00 PM FRIDAY WITHIN THE SAME WEEK. DURING BUSINESS HOURS, POWER SHALL BE PROVIDED AND SIGNAL SYSTEMS SHALL BE OPERATIONAL TO THE CAMPUS.
2. SIGNAL SYSTEMS SHALL INCLUDE TELECOR INTERCOM, PAGING, CLOCK SYSTEM, ADEMCO INTRUSION, DATA, VOIP TELEPHONE, TELEVISION, AND HARRINGTO FIRE ALARM.
3. THROUGHOUT CONSTRUCTION, THE ELECTRICAL AND SIGNAL SYSTEMS SHALL REMAIN IN OPERATION.
4. SIGNAL SYSTEMS: PROVIDE DEVICES AS SHOWN ON THE DRAWINGS AND ALL NECESSARY EQUIPMENT INCLUDING HARDWARE, WIRING AND PROGRAMMING FOR A COMPLETE AND OPERATIONAL SYSTEM PER SCHOOL DISTRICT REQUIREMENTS. COORDINATE WITH SCHOOL DISTRICT FOR SYSTEM OPERATIONS PRIOR TO BID. TEST SYSTEM TO COMPLY WITH MANUFACTURER'S OPERATION REQUIREMENTS. DEVICES AND EQUIPMENT ADDITIONS SHALL NOT VOID THE EXISTING EQUIPMENT WARRANTY.
5. LOCAL FIRE AUTHORITY SHALL BE NOTIFIED 48 HOURS IN ADVANCE OF FIRE ALARM SHUT DOWN.

ELECTRICAL SYMBOLS LIST

- CONDUIT CONCEALED BELOW FLOOR OR GRADE.
- CONDUIT CONCEALED IN CEILING OR WALL.
- HOMERUN TO RESPECTIVE PANEL OR TERMINAL.
- INDICATES 1#12 (GREEN) GROUND WIRE; OTHER SIZES AS INDICATED.
- NOTE: BRANCH CIRCUIT WITHOUT FURTHER DESIGNATION IS A 2#12 WIRE CIRCUIT. FOR MORE THAN 2#12 WIRES AS FOLLOWS: —|||— 3#12, —||||— 4#12, ETC. FOR OTHER SIZES AS FOLLOWS: —|||— 3#10, —||||— 4#6, ETC. (10 / 6)
- FULL-BOX WITH GROUND ROD, SEE DETAIL-B/E4.1A.
- PANELBOARD, SEE SCHEDULE.
- TERMINAL CABINET BACKBOARD.
- 15 AMP DOUBLE DUPLEX RECEPTACLE MOUNT IN IDF.
- FIRE ALARM END OF LINE DEVICE.
- FIRE ALARM EXTERIOR HORN.
- FIRE ALARM HORN/STROBE, 180°, 15cd, 75cd U.O.N.
- ADDRESSABLE 135° F CEILING HEAT DETECTOR, FIXED TEMPERATURE WITH R-O-R.
- A — FIRE ALARM ADDRESSABLE 190° F ATTIC HEAT DETECTOR.
- ADDRESSABLE PHOTO-ELECTRIC CEILING SMOKE DETECTOR.
- FACP — FIRE ALARM CONTROL PANEL.
- FABP — FIRE ALARM BOOSTER PANEL.
- FATC — FIRE ALARM TERMINAL CABINET.
- MM — MONITOR MODULE.
- CM — CONTROL MODULE.
- T — TRANSFORMER
- WAP — SINGLE DATA OUTLET WITH WIRELESS ACCESS PANEL, WALL MOUNTED, 49"-0".
- 2 — DATA OUTLET WITH 2 PORTS, 18".
- TELEPHONE HANDSET, WALL MOUNTED, +48". MATCH EXISTING SYSTEM.
- IDF — INTERMEDIATE DISTRIBUTION FRAME.

OPEN WIRED LOW VOLTAGE CABLE WIRING NOTES:

(APPLICABLE TO LV SIGNAL SYSTEM WITHIN BUILDINGS.)

1. CABLE HOOKS SHALL ONLY BE USED WHERE SHOWN ON THE PLANS FOR OPEN WIRED LOW VOLTAGE CABLING IN DRY LOCATIONS INSTALLED ABOVE ACCESSIBLE T-BAR CEILINGS. ONLY LOW VOLTAGE LIMITED ENERGY CLASS-2 AND CLASS-3 SYSTEMS SHALL BE OPEN WIRED. ALL OTHER SYSTEM CLASSES SHALL BE ROUTED IN CONDUIT. OPEN WIRED CABLING SHALL BE RATED FOR THE ENVIROMENT THEY ARE INSTALLED. A GENERAL PURPOSE RATING, SUCH AS "CM" CAN BE USED ABOVE CEILINGS. IN PLENUM SPACES USED PLENUM RATED CABLES, & FOR RISER LOCATIONS USE RISER RATED CABLES.
2. SYSTEM SEPARATION:
    - A. DATA AND TELEPHONE CABLES SHALL SHARE ONE SET OF CABLE HOOKS.
    - B. ALL OTHER SIGNAL CABLING SHALL SHARE THE OTHER SET OF CABLE HOOKS.
3. CABLE HOOKS USED TO SUPPORT OPEN WIRED CABLES SHALL BE AS FOLLOWS:
    - A. B-LINE #BCH32 (2", MAX 70 4-PR UTP CABLES)
    - B. B-LINE #BCH64 (4", MAX 280 4-PR UTP CABLES).
    - C. B-LINE #BCH21 (1 5/16", MAX. 30 4-PR UTP CABLES).

    DO NOT FILL TO MORE THAN 75% CAPACITY. CABLE HOOKS TO BE PRE-GALVANIZED STEEL, 1.5" WIDE WITH ROUNDED EDGES, STATIC CAPACITY OF 30 lbs. CABLE HOOKS SHALL BE EASILY ACCESSIBLE AND BE APPROXIMATELY 12 TO 24 INCHES ABOVE CEILING.
4. STUB 3/4" CONDUIT FROM DEVICE BOX TO WITHIN 24" OF CABLE HOOKS. FOR DATA AND TELEPHONE OUTLETS STUB 1" CONDUIT. CABLE HOOKS MAY BE USED INSTEAD OF CONDUIT ABOVE ACCESSIBLE CEILINGS.
5. SUPPORT CABLE HOOKS AT 48" ON CENTER. SECURE TO WALL STUDS ABOVE CEILING OR SUSPEND WITH MINIMUM 1/2" STEEL RODS. PROVIDE ALL NECESSARY FASTENERS, RODS, HANGERS, BLACKETS, ETC., AS NEEDED.
6. WHERE CABLES MUST PASS ABOVE CEILINGS THAT ARE NOT ACCESSIBLE OR ARE NOT T-BAR CEILINGS, THE CABLING SHALL BE ROUTED IN CONDUIT(S). PROVIDE CONDUIT TO SPAN THE SPACE THAT IS NOT ACCESSIBLE AND BETWEEN CABLE HOOK SYSTEMS.
7. CABLES THAT PASS THROUGH FIRE RATED WALLS, SEISMIC JOINTS, SOUND WALLS, COVERED (SHEETROCK, PLYWOOD) WALLS, ETC. SHALL PASS THRU IN CONDUIT SLEEVES. PROVIDE FIRE SEALANT FOR FIRE RATED WALLS TO MAINTAIN RATING.
8. CONDUIT EQUIVALENTS:
    (1) 2" J-HOOK = (1) 4" CONDUIT.
    (1) 4" J-HOOK = (2) 4" CONDUITS.
    (1) 1 5/16" J-HOOK = (1) 2" CONDUIT.
9. LENGTH OF EACH J-HOOK SHALL NOT EXCEED 12" IN LENGTH.

PLOT DATE: 03-28-16

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PROFESSIONAL STAMP:

PROJECT:

HORTICULTURE & PLANT SCIENCE INSTITUTE PHASE II: MODULAR BUILDINGS
4000 Suisun Valley Rd,
Fairfield, CA 94534

REVISIONS

REF	DESCRIPTION	DATE
-	DSA SUBMITTAL	3/7/16

PROJECT CODE: SCCD-04
START DATE: -
DRAWN BY: HW-DB
CHECKED BY: DY

SHEET NAME:

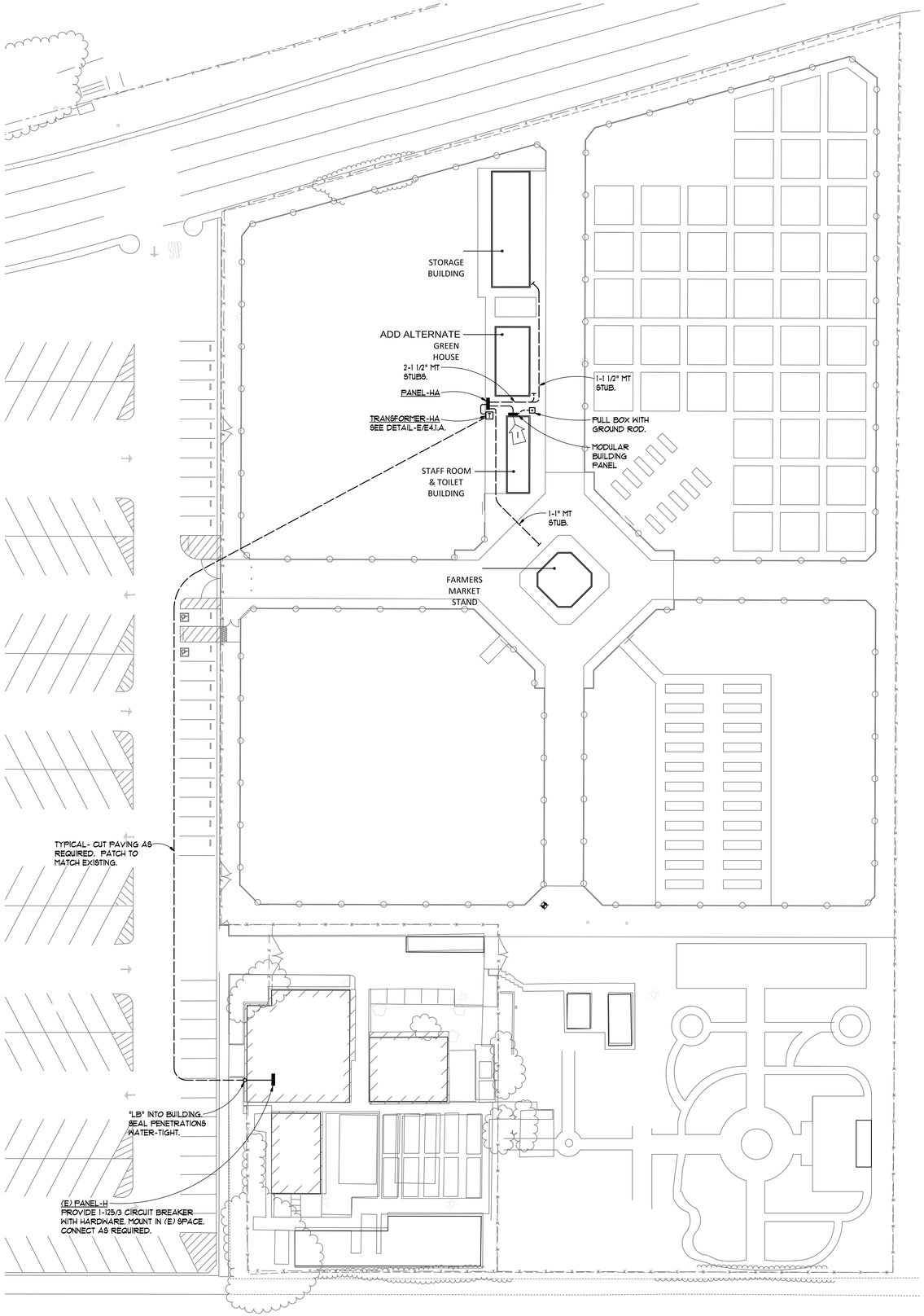
ELECTRICAL SYMBOLS LIST, SCHEDULE, & NOTES

DSA APPROVAL STAMP:

SHEET NUMBER:

E0.1A

LOUISE WILBOURN YARBROUGH HORTICULTURE & PLANT SCIENCE INSTITUTE @ SOLANO COMMUNITY COLLEGE DISTRICT

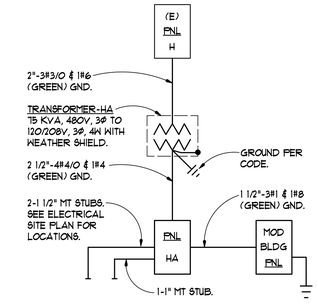


A E1.1A POWER SITE PLAN

SCALE: 1" = 30'-0"

CONSTRUCTION NOTE:

1. PANELBOARD N.I.E.S. FURNISHED WITH TOILET BUILDING, CONNECT AS REQUIRED.



B E1.1A PARTIAL ONE LINE DIAGRAM

NO SCALE

GND NEUT **PANEL-HA**

MINIMUM AIC: 10,000
TYPE: NQOD-24-4AB-225
MOUNTING: ☐ FLUSH ☐ SURFACE ☒ FREESTANDING
MISC: NEMA-3R

VOLTAGE: ☒ 120/208 ☐ 480Y/277 ☐ 120/240
PHASE: ☐ 1-PHASE ☒ 3-PHASE
BUSS AMPS: 225 ☒ CU ☐ AL
MAIN AMPS: 225 ☐ MLO ☒ BKR
FED FROM: PANEL-H

KVA	USE	BKR	No.	Phase	No.	BKR	USE	KVA
.	TOILET	125/2	1	A	2	20/1	FARM STAND	.
			3	B	4	50/2	GREEN HOUSE	.
.	STORAGE BLDG.	100/3	5	C	6			
			7	A	8	1P	SPACE	.
.	FARMERS MARKET	20/1	9	B	10			
	SPARE		11	C	12			
			13	A	14			
			15	B	16			
			17	C	18			
			19	A	20			
			21	B	22			
			23	C	24			

LOAD KVA: .

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HYA Job #1612A

PROFESSIONAL STAMP:

PROJECT:

HORTICULTURE & PLANT SCIENCE INSTITUTE PHASE II: MODULAR BUILDINGS

4000 Suisun Valley Rd,
Fairfield, CA 94534

REVISIONS

REF	DESCRIPTION	DATE
-	DSA SUBMITTAL	3/7/16

PROJECT CODE: SCCD-04
START DATE: -
DRAWN BY: HW-DB
CHECKED BY: DY

SHEET NAME:

POWER SITE PLAN

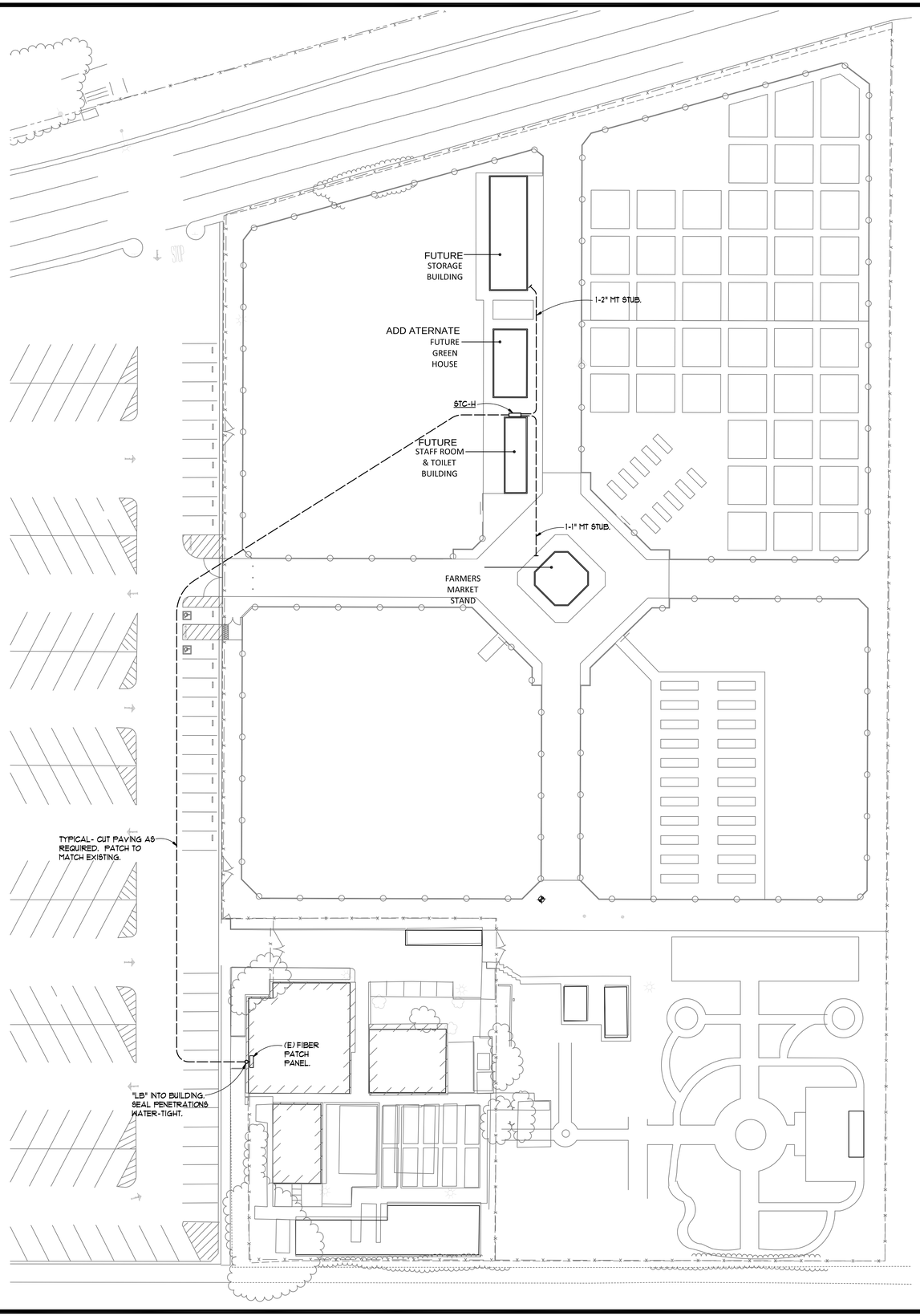
DSA APPROVAL STAMP:

SHEET NUMBER:

E1.1A

LOUISE WILBOURN YARBROUGH HORTICULTURE & PLANT SCIENCE INSTITUTE ⊕ SOLANO COMMUNITY COLLEGE DISTRICT

PLOT DATE: 03-28-16



A E1.2A SIGNAL SITE PLAN
SCALE: 1" = 30'-0"

PLOT DATE: 03-28-16

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SANTA CRUZ, CA 95060

TEL: 800.725.0571

OWNER

SOLANO COMMUNITY COLLEGE
SOLANO COMMUNITY COLLEGE DISTRICT
4000 Suisun Valley Rd, Fairfield, CA 94534

CONSULTANT

REGISTERED PROFESSIONAL ENGINEER
DAVID K. YU
No. E14087
Exp. 6/30/17
ELECTRICAL
STATE OF CALIFORNIA

HARRY A. YEE & ASSOCIATES, INC.
ELECTRICAL ENGINEERS
4920 FREEPORT BOULEVARD
SUITE D
SACRAMENTO
CALIFORNIA
95822
TEL: 916.454.5319
FAX: 916.454.4117
HYA Job #1612A

PROFESSIONAL STAMP:

PROJECT:

HORTICULTURE & PLANT SCIENCE INSTITUTE PHASE II: MODULAR BUILDINGS

4000 Suisun Valley Rd,
Fairfield, CA 94534

REVISIONS

REF	DESCRIPTION	DATE
-	DSA SUBMITTAL	3/7/16

PROJECT CODE: SCCD-04
START DATE: -
DRAWN BY: HW-DB
CHECKED BY: DY

SHEET NAME:

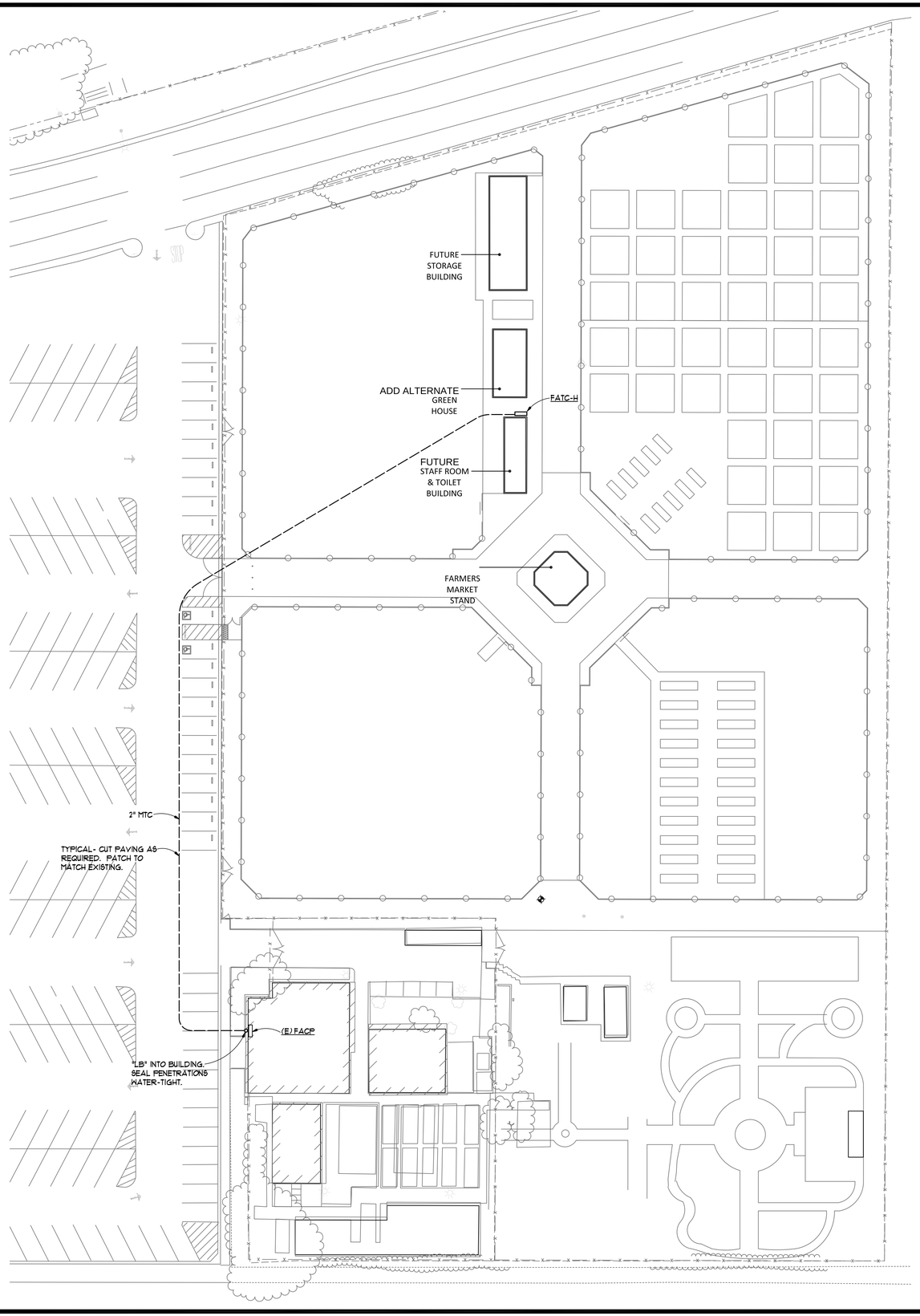
SIGNAL SITE PLAN

DSA APPROVAL STAMP:

SHEET NUMBER:

E1.2A

LOUISE WILBOURN YARBROUGH HORTICULTURE & PLANT SCIENCE INSTITUTE ⊕ SOLANO COMMUNITY COLLEGE DISTRICT



A E1.3A FIRE ALARM SITE PLAN

SCALE: 1" = 30'-0"

PLOT DATE: 03-28-16

ARCHITECT

MADI
ARCHITECTURE + PLANNING
333 1ST STREET, SUITE C
SAN FRANCISCO, CA 94105
303 POTRERO STREET, SUITE 7B
SANTA CRUZ, CA 95060

TEL: 800.725.0571

OWNER

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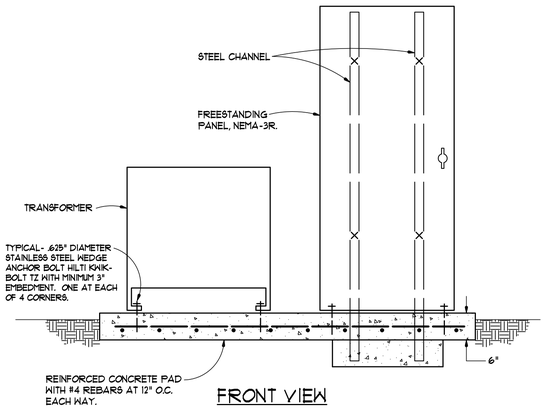
DSA APPROVAL STAMP:

SHEET NUMBER:

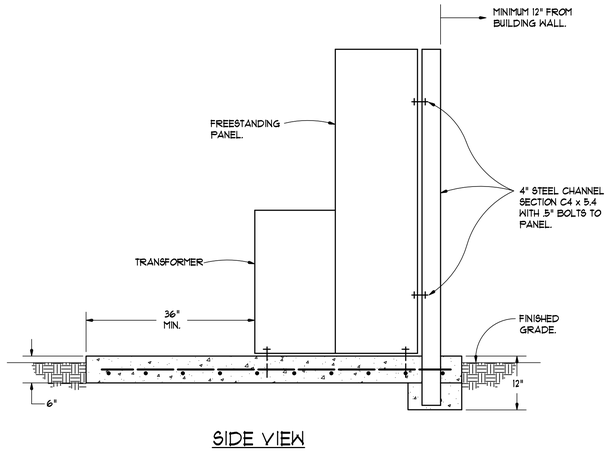
E1.3A

LOUISE WILBOURN YARBROUGH HORTICULTURE & PLANT SCIENCE INSTITUTE ⊕ SOLANO COMMUNITY COLLEGE DISTRICT

FUTURE BUILDING.
NOT IN CONTRACT



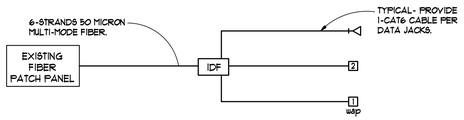
FRONT VIEW



SIDE VIEW

E E4.1A PANEL AND TRANSFORMER MOUNTING DETAILS

NO SCALE

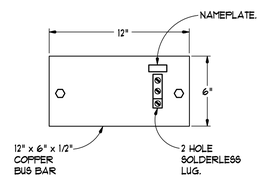


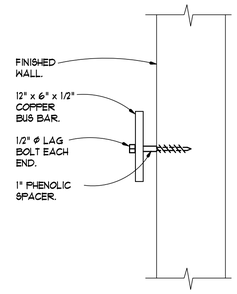
D E4.1A DATA/TELEPHONE RISER DIAGRAM

NO SCALE

NOTE:

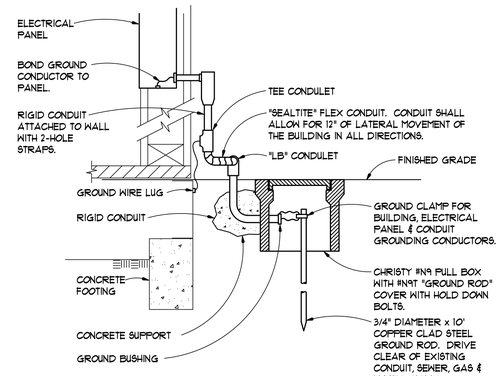
CONNECT TO BUILDING GROUNDING SYSTEM WITH #6 (GREEN) GND.





C E4.1A GROUND BUS DETAIL

NO SCALE

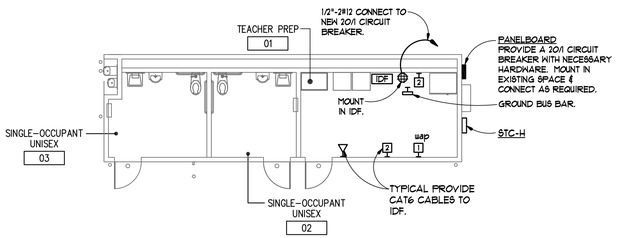


NOTES:

1. SIZE OF CONDUCTORS SHALL COMPLY WITH CEC TABLE 250-94.
2. BOND THE GROUND ROD TO METAL WATER PIPE, IF AVAILABLE.
3. BOND SEPARATE CONDUCTORS FROM GROUND ROD TO ELECTRICAL PANEL AND TO METAL BUILDING FRAME (CEC 250-81) IN ADDITION TO THE DETAIL SHOWN ABOVE. BOND THE ELECTRICAL GROUND TO METAL WATER PIPE EMBEDDED AT LEAST 10 FEET INTO THE SOIL IF AVAILABLE (CEC 250-81 AND 250-83).
4. CHECK RESISTANCE TO GROUND. IF RESISTANCE EXCEEDS 25 OHMS, INSTALL ADDITIONAL GROUND RODS WITH CONDUCTORS AS SHOWN, SEPARATED AT LEAST 6'-0", UNTIL RESISTANCE IS REDUCED TO 25 OHMS OR LESS. FORWARD TEST RESULTS TO ENGINEER.

B E4.1A GROUNDING DETAIL

NO SCALE



RESTROOM SIGNAL FLOOR PLAN

A E4.1A

SCALE: 1/8" = 1'-0"

PLOT DATE: 03-28-16

ARCHITECT

MADI
ARCHITECTURE + PLANNING
333 1ST STREET, SUITE C
SAN FRANCISCO, CA 94105
303 POTRERO STREET, SUITE 7B
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PROFESSIONAL STAMP:

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SHEET NAME:

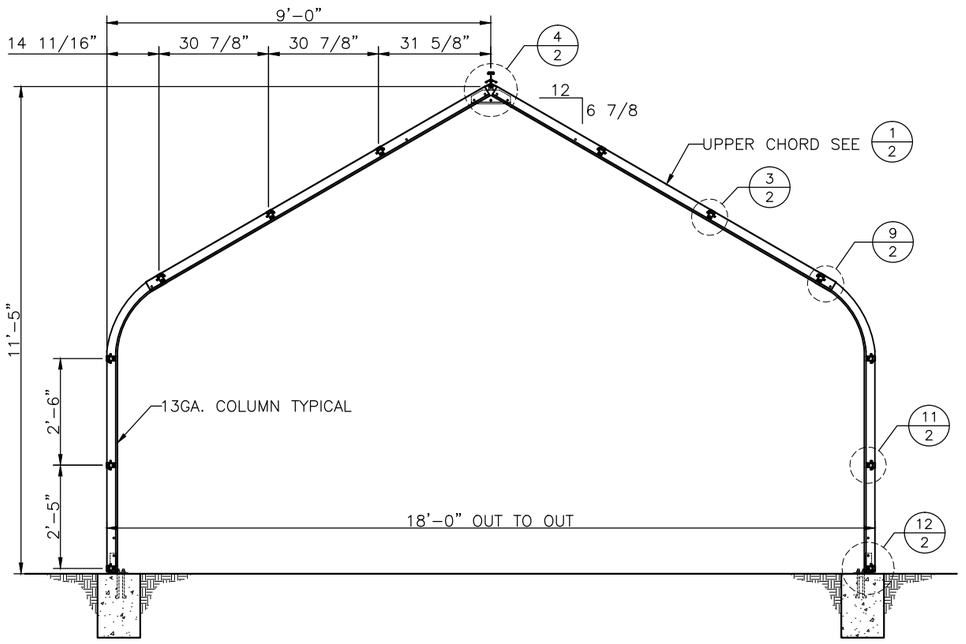
SIGNAL FLOOR PLANS

DSA APPROVAL STAMP:

SHEET NUMBER:

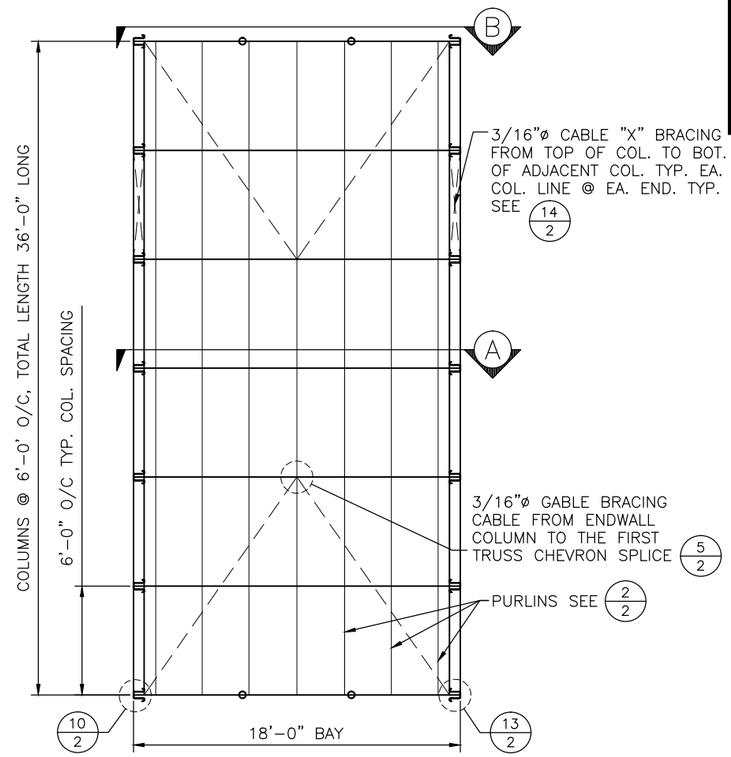
E4.1A

LOUISE WILBOURN YARBROUGH HORTICULTURE & PLANT SCIENCE INSTITUTE ⊕ SOLANO COMMUNITY COLLEGE DISTRICT



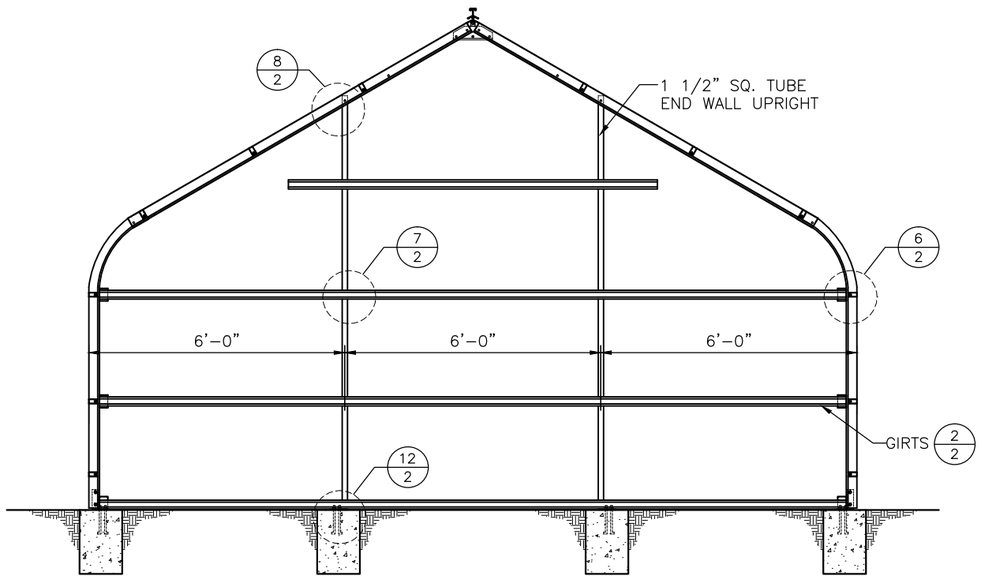
TYPICAL SECTION (A)

SCALE: 3/8" = 1'



TYPICAL PLAN VIEW

SCALE: NTS



TYPICAL ENDWALL (B)

SCALE: 3/8" = 1'

ADD ALTERNATE-1

PROVIDE CONLEY'S OR EQUAL

CONCRETE NOTES:

1. ALL CONCRETE SHALL WITHSTAND 2500 LBS. PER SQUARE INCH ULTIMATE COMPRESSIVE STRESS AT 28 DAYS.

2. CONTRACTOR SHALL INFORM CONLEY'S MANUFACTURING & SALES OF ANY DISCREPANCIES, OMISSIONS, OR ERRORS ON THE PLANS BEFORE BEGINNING CONSTRUCTION, OTHERWISE, IT SHALL BE DONE AS INTENDED BY THE ENGINEER.

3. THE ENGINEER AND/OR CONLEY'S MANUFACTURING & SALES ASSUMES NO RESPONSIBILITY FOR CONSTRUCTION SUPERVISION OR DEVIATION FROM THESE PLANS WITHOUT PRIOR WRITTEN APPROVAL.

4. ALL CONSTRUCTION SHALL COMPLY WITH THE C.B.C. LATEST EDITION AS AMENDED BY THE LOCAL AGENCY HAVING JURISDICTION.

5. DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS ON DRAWINGS SHALL TAKE PRECEDENCE OVER SCALED DIMENSIONS.

6. ANY ENGINEERING DESIGN PROVIDED BY OTHERS MUST BE SUBMITTED FOR REVIEW AND SHALL BEAR THE STAMP AND SIGNATURE OF A REGISTERED ENGINEER.

7. ALL PLUMBING, ELECTRICAL OR MISCELLANEOUS STUB OUT SHALL BE A MINIMUM OF NINE (9) INCHES CLEAR OF THE OUTSIDE CONCRETE IN ORDER TO CLEAR THE WALLS.

8. FOOTINGS SHALL BE CENTERED ON THE CENTERLINE OF THE COLUMN ABOVE UNLESS OTHERWISE NOTED.

9. ALL FOOTINGS SHALL BEAR AGAINST FIRM NATURAL UNDISTURBED SOIL OR CERTIFIED COMPACTED FILL. SOIL BEARING PRESSURE EQUAL TO 1500 PSF.

10. THE MINIMUM REQUIREMENTS AND LOCAL FROST LINE REQUIREMENTS MAY SUPERSEDE THE DESIGN CALL OUTS. CONTACT THE LOCAL BUILDING DEPARTMENT FOR MINIMUM DEPTH REQUIREMENTS.

* BUILDINGS WITH SNOW LOADS ARE DESIGNED AS HEATED BUILDINGS

BUILDING SPECIFICATIONS:

THIS STRUCTURE HAS BEEN DESIGNED AND DETAILED FOR THE LOADS AND CONDITIONS SHOWN ON THESE DRAWINGS. ANY ALTERATIONS TO THE STRUCTURAL SYSTEM OR REMOVAL OF ANY COMPONENT PARTS OR THE ADDITION OF OTHER CONSTRUCTION MATERIALS OR LOADS MUST BE DONE UNDER THE ADVICE AND DIRECTION OF A REGISTERED ARCHITECT, CIVIL OR STRUCTURAL ENGINEER. CONLEY'S MANUFACTURING & SALES WILL ASSUME NO RESPONSIBILITY FOR ANY LOADS NOT INDICATED.

THIS METAL BUILDING IS DESIGNED WITH CONLEY'S MANUFACTURING & SALES DESIGN PRACTICES WHICH ARE BASED ON PERTINENT PROCEDURES AND RECOMMENDATIONS OF THE FOLLOWING ORGANIZATIONS AND CODES, AND ARE ACCEPTED PRACTICES IN THE LOW RISE METAL AND AGRICULTURAL BUILDING INDUSTRY.

AMERICAN INSTITUTE OF STEEL CONSTRUCTION:
"STEEL CONSTRUCTION MANUAL" 13TH EDITION.
2005 A.I.S.C. (M.B.M.A.) "SERVICEABILITY" STANDARDS WILL BE USED FOR THIS DESIGN.

AMERICAN IRON AND STEEL INSTITUTE:
2007 EDITION: NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD–FORMED STEEL STRUCTURAL MEMBERS.

INTERNATIONAL CONFERENCE OF BUILDING OFFICIALS:
"CALIFORNIA BUILDING CODE" 2013 EDITION

AMERICAN WELDING SOCIETY:
"STRUCTURAL WELDING CODE" A.W.S D1.1–10

METAL BUILDING MANUFACTURER'S ASSOCIATION:
"METAL BUILDING SYSTEMS MANUAL" 2006

STEEL NOTES:

1. ALL CONSTRUCTION TO COMPLY WITH THE LATEST EDITION OF THE C.B.C. AND A.I.S.C.

2. ALL MACHINE BOLTS TO COMPLY WITH A.S.T.M. A–307*. HOLES SHALL BE BOLT DIAMETER PLUS 1/16". (* UNLESS OTHERWISE NOTED)

3. ALL HOT ROLLED OR COLD ROLLED SHEETS AND STRIPS USED IN THE FABRICATION OF COLD FORMED STRUCTURAL MEMBERS SHALL HAVE A MINIMUM YIELD STRENGTH OF 55 K.S.I.

4. LIGHT GAGE – COLD FORMED STRUCTURAL STEEL MEMBERS SHALL CONFORM TO A.S.T.M. SPEC. A–500 GRADE "D" (Fy=50 K.S.I.), UNLESS OTHERWISE NOTED.

5. ALL STRUCTURAL STEEL MEMBERS SHALL BE GALVANIZED.

6. ROUND TUBES SHALL CONFORM TO A.S.T.M. SPEC. A–500 GRADE "C" (Fy=46K.S.I.).

7. CABLES SHALL BE OF AIRCRAFT TYPE CABLE WITH THE FOLLOWING BREAKING STRENGTHS: 1/8"ø = 1,700 LBS., 3/16"ø =4,200 LBS., 1/4"ø = 7,000 LBS.

REVISIONS
1 –
2 –
3 –
4 –
5 –

NATIONAL GREENHOUSE MANUFACTURERS ASSN. NGMA ESTABLISHED 1958 STANDARD OF QUALITY THROUGH UNIFORM CONTROL

CONLEY'S GREENHOUSE MANUFACTURING & SALES
4344 MISSION BLVD. MONTCLAIR, CA 91763
(909) 627-2508 FAX (909) 628-3774
SERVING AGRICULTURE SINCE 1946

DATE 12/30/14
SCALE N.T.S.
JOB NO –
DRAWN BY AGM
APPROVED

TITLE 18' X 36' HOBBY HOUSE
JOB NAME I

ENGINEER –

LOADING 12LL–100–C

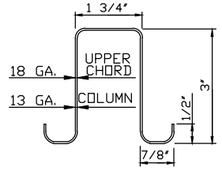
DRAWING NO. FM-01

DRAWING SET – – –

SHEET 1 OF 2

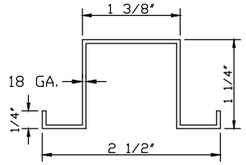
CERTIFICATION

12/30/14 –



UPPER CHORD / COLUMN (1)

SCALE: NTS



PURLIN / GIRT (2)

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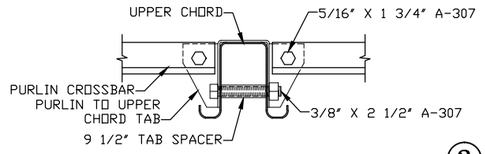
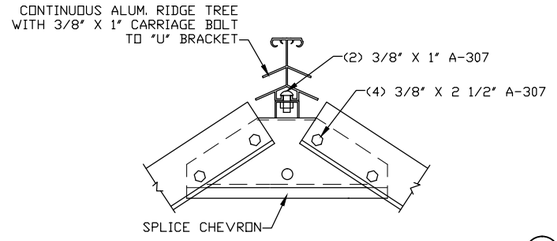


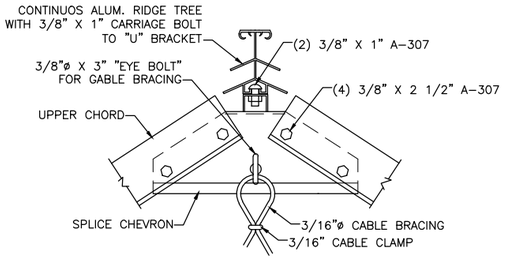
PURLIN / GIRT TO UPPER CHORD (3)

SCALE: NTS



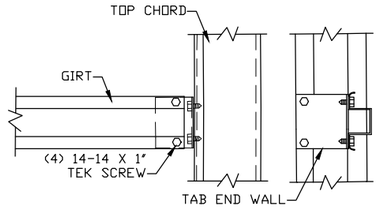
CHEVRON CONN. TO UPPER CHORD (4)

SCALE: NTS



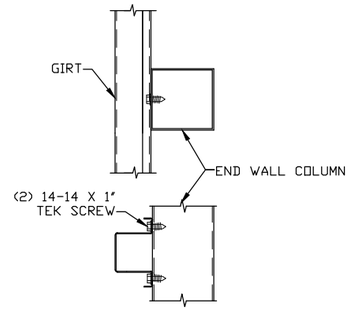
CHEVRON CONN. TO UPPER CHORD (5)

SCALE: NTS



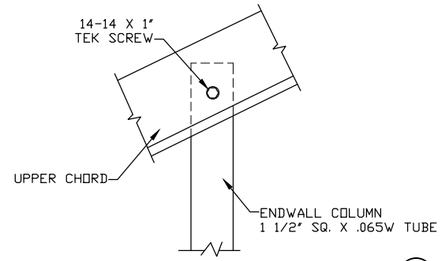
SIDEWALL AND ENDWALL UPRIGHT CONN. (6)

SCALE: NTS



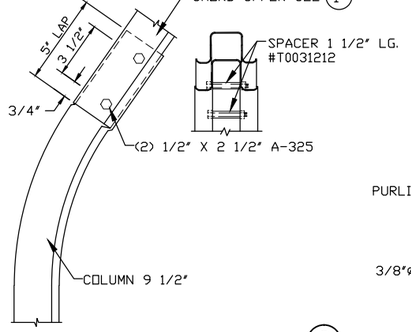
GIRT CONN. AT ENDWALL COLUMN (7)

SCALE: NTS



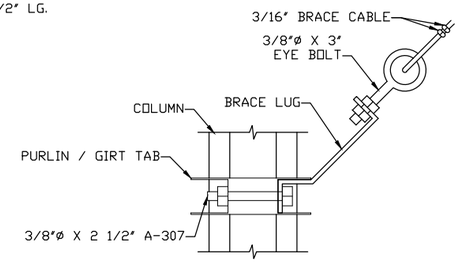
END WALL UPRIGHT AT CHORD (8)

SCALE: NTS



COLUMN CONN. TO UPPER CHORD (9)

SCALE: NTS



BRACE CABLE CONNECTION (10)

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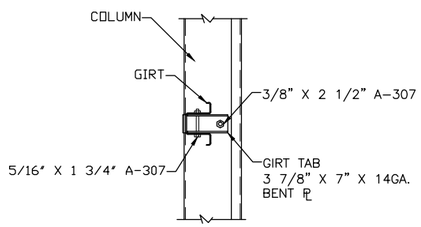
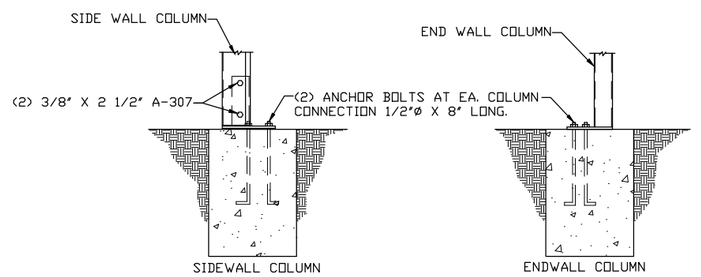


GIRT AT COLUMN CONNECTION (11)

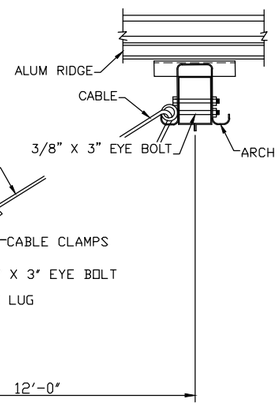
SCALE: NTS



* OR 1/2"ø X 3 1/4" HILTI KWIK BOLTS PER KB-TZ ICC-ES ESR-1917

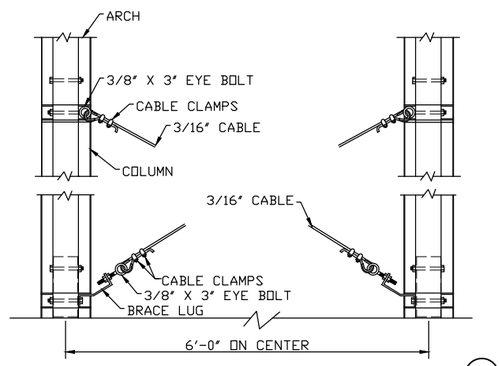
SIDEWALL AND ENDWALL UPRIGHT CONN. (12)

SCALE: NTS



CABLE BRACING AT RIDGE (13)

SCALE: NTS



COLUMN "X" BRACING (14)

SCALE: NTS

ADD ALTERNATE-1

PROVIDE CONLEY'S OR EQUAL

REVISIONS

1 –
2 –
3 –
4 –
5 –
6 –

CONLEY'S
GREENHOUSE MANUFACTURING & SALES
4344 MISSION BLVD. MONTCLAIR, CA 91763
(909) 627-2308 FAX (909) 628-3774
SERVING AGRICULTURE SINCE 1946

DATE 12/30/14
SCALE N.T.S.
JOB NO –
DRAWN BY AGM
APPROVED

TITLE HOBBY HOUSE DETAILS

JOB NAME

ENGINEER
–

LOADING
12LL–100–C

DRAWING NO.
FM-02

DRAWING SET
–
–
–

SHEET 2 OF 2

CERTIFICATION

12/30/14 –

EXAMPLE FORM DSA 103

NOTE: THE EXAMPLE FORM DSA-103 SHOWN ON THIS SHEET IS FOR ILLUSTRATION PURPOSES ONLY TO ASSIST IN THE COMPLETION OF FUTURE PROJECT SPECIFIC FORM DSA-103'S. A FORM DSA-103 IS TO BE COMPLETED FOR EACH APPLICATION THAT THIS PC IS BEING INCORPORATED INTO AND THE EXAMPLE FORM DSA-103 IS TO BE CROSSED OUT ON THIS DRAWING.

Note: References are to the 2013 edition of the California Building Code (CBC) unless otherwise noted.

REQUIRED	TEST OR SPECIAL INSPECTION	TYPE[1]	PERFORMED BY[2]	
-	**SOILS**			
	1. GENERAL:	**Table 1705A.6**		
X	a. Verify that: • site has been prepared properly prior to placement of controlled fill and/or excavations for foundations, • foundation excavations are extended to proper depth and have reached proper material, and • materials below footings are adequate to achieve the design bearing capacity.	**Periodic**	**GE***	* By geotechnical engineer or his or her qualified representative. Use PI in lieu of GE if there is no GE for the site specific project.
-	**2. COMPACTED FILLS:**	**Table 1705A.6**		
X	a. Perform qualification testing of fill materials.	**Test**	**Lab***	* Under the supervision of the geotechnical engineer.
X	b. Verify use of proper materials and inspect lift thicknesses, placement, and compaction during placement of fill.	**Continuous**	**GE***	* By geotechnical engineer or his or her qualified representative. Use PI in lieu of GE if there is no GE for the site specific project.
X	c. Test compaction of fill.	**Test**	**Lab***	* Under the supervision of the geotechnical engineer.
-	**4. CAST-IN-PLACE DEEP FOUNDATIONS (PIERS):**	**Table 1705A.7**		
X	a. Inspect drilling operations and maintain complete and accurate records for each pier.	**Continuous**	**GE***	* By geotechnical engineer or his or her qualified representative. Use PI in lieu of GE if there is no GE for the site specific project.
X	b. Verify locations of piers.	**Continuous**	**PI**	
X	c. Confirm pier diameters, plumbness, bell diameters (if applicable), lengths, and embedment into bedrock (if applicable). Record concrete or grout volumes.	**Continuous**	**GE***	* By geotechnical engineer or his or her qualified representative. Use PI in lieu of GE if there is no GE for the site specific project.
X	d. Confirm adequate end strata bearing capacity.	**Test**	**Lab***	* Under the supervision of the geotechnical engineer.
X	e. Concrete piers.	Provide tests and inspections per CONCRETE section below.		
-	**CONCRETE**	**Table 1705A.3**		
-	**7. CAST IN PLACE CONCRETE**			
	Material Verification and Testing:			
X	a. Verify use of required design mix.	**Periodic**	**SI & PI***	* To be performed by batch-plant special inspector and project inspector.
X	c. Perform slump, temperature, and (where required) air content tests.	**Test**	**Lab**	ASTM C172, ASTM C31.
X	d. Test concrete (compression).	**Test**	**Lab**	**ACI 318 Section 5.6 and 1905A.1.2** (1913.3.1*). ASTM C39.
	Inspection:			
X	e. Batch plant inspection	**Continuous**	**SI**	**1705A.3.2.** If approved by DSA, batch plant inspection may be reduced to periodic if plant complies with **1705A.3.3**, Item 1, and requires first batch inspection, weighmaster, and batch tickets.
X	g. Inspect placement of formwork, reinforcing steel, embedded items and concrete. Inspect curing and form removal.	**Continuous**	**PI***	* May be performed by a special inspector when specifically approved by DSA.
+	**MASONRY**	**TMS 402-11/ACI 530-11/ASCE 5-11 Table 1.19.3**		
-	**STEEL**	**Table 1705A.2.1**		
-	**17. STRUCTURAL STEEL AND COLD-FORMED STEEL USED FOR STRUCTURAL PURPOSES**			
	Material Verification:			
X	a. Verify that all materials are appropriately marked and that: • Mill certificates indicate material properties that comply with requirements, • Material sizes, types and grades comply with requirements.	**Periodic**	*	* By special inspector when performed off-site; by project inspector for steel shipped directly to project site without welding or fabrication.
X	b. Test unidentified materials	**Test**	**Lab**	**2203A.1** (2203.1*). ASTM A370.
X	c. Examine seam welds of structural tubes and pipes	**Periodic**	**SI***	* DSA IR 17-3.
	Inspection:			
X	d. Verify member locations, bracing and all details constructed in the field.	**Continuous**	**PI**	
X	e. Verify stiffener locations, connection tab locations and all construction details fabricated in the shop.	**Periodic**	**SI**	
-	**18. HIGH STRENGTH BOLTS:**			
	Material Verification of High-Strength Bolts, Nuts, and Washers:			
X	a. Verify identification markings and manufacturer's certificates of compliance conform to ASTM standards specified in the DSA approved documents.	**Periodic**	**SI**	DSA IR 17-9
X	b. Test high-strength bolts, nuts and washers.	**Test**	**Lab**	**2213A.1** (2212.6.1*). ASTM F606, A370. DSA IR 17-8
	Inspection of High-Strength Bolt Installation:			
X	c. Bearing-type ("snug tight") connections.	**Periodic**	**SI***	DSA IR 17-9
	19. WELDING:			DSA IR 17-3, AWS D1.1 and AWS D1.8 (AWS D1.3 for cold formed steel).
	Verification of Materials, Equipment, Welders, etc:			
X	a. Verify weld filler material identification markings per AWS designation listed on the DSA approved documents and the WPS.	**Periodic**	**SI**	
X	b. Verify weld filler material manufacturer's certificate of compliance.	**Periodic**	**SI**	
X	c. Verify WPS, welder qualifications and equipment.	**Periodic**	**SI**	DSA IR 17-3.
-	**19.1 SHOP WELDING:**			
X	a. Inspect groove, multi-pass, and fillet welds > 5/16"	**Continuous**	**SI**	Per AISC 360 (and AISC 341 as applicable). DSA IR 17-3.
X	b. Inspect single-pass fillet welds ≤ 5/16"	**Periodic**	**SI**	Per AISC 360 (and AISC 341 as applicable). DSA IR 17-3.
+	**WOOD**			
+	**OTHER**			

1 Soils testing and inspection: Geotechnical Verified Report - Form DSA-293
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KEY to Columns

1 Type -	2 Performed By -
Continuous – Indicates that a continuous special inspection is required	**GE** – Indicates that the special inspection is to be performed by a registered geotechnical engineer or his or her authorized representative
Periodic – Indicates that a periodic special inspection is required	**Lab** – Indicates that the test or inspection is to be performed by a testing laboratory accepted in the DSA laboratory Evaluation and Acceptance (LEA) Program. See section 4-335, 2013 CCR Title 24, Part 1.
Test – Indicates that a test is required	**PI** – Indicates that the special inspection is to be performed by the project inspector
	SI – Indicates that the special inspection is to be performed by a special inspector

Shelter Options

Shelter Style	Available Options						
			Eave Height				
	Length	Width	Min.	Max.	Recessed Anchor Bolts./Footings	Roof Downspouts	"V" plugs for bird control.
20' Meramec	30', 42'		7'	12'	Y/N	Y/N	Y/N
30' Meramec	42', 54'		7'	12'	Y/N	Y/N	Y/N
16' Navajo			7'	12'	Y/N	Y/N	Y/N
20' Navajo			7'	12'	Y/N	Y/N	Y/N
24' Navajo			7'	12'	Y/N	Y/N	Y/N
30' Navajo			7'	12'	Y/N	Y/N	Y/N
36' Navajo			7'	12'	Y/N	Y/N	Y/N
40' Navajo			7'	12'	Y/N	Y/N	Y/N
Illini	13' to 58' in 9' increments.	10', 16'	7'-6"	12'	Y/N	Y/N	Y/N
7' Shawnee	9'-8" to 55'-8" in 7'-8" increments.		7'-6"	12'	Y/N	Y/N	Y/N

2013 CBC PC STRUCTURAL DESIGN NOTES

DESCRIPTION	DESIGN VALUES
DEAD AND LIVE LOADS	
ROOF LIVE LOAD (Lr)	20 PSF
ROOF DEAD LOAD (D)	5 PSF
ALLOWABLE SOIL PRESSURE	
DL	1000 PSF
DL+Lr	1000 PSF
DL+SNOW	1000 PSF
ROOF SNOW LOAD	
GROUND SNOW LOAD (Pg)	22 PSF
SLOPED ROOF SNOW LOAD (Ps)	20 PSF
SNOW EXPOSURE FACTOR (Ce)	1.1
SNOW IMPORTANCE FACTOR (I)	1.0
THERMAL FACTOR (Ct)	1.2
FLOOD DESIGN	
FLOOD HAZARD AREA	NO
WIND DESIGN	
ULTIMATE DESIGN WIND SPEED (Vult)	130 MPH
WIND EXPOSURE FACTOR	C
TOPOGRAPHIC FACTOR (Kzt)	1.0
ASCE 7-10 WIND ANALYSIS METHOD	CHAPTER 27 DIRECTIONAL PROCEDURE
VELOCITY PRESSURE EXPOSURE COEFFICIENT (Kz)	0.85
NET PRESSURE COEFFICIENT	VARIES, SEE CALCULATIONS
WIND DIRECTIONALITY FACTOR (Kd)	0.85
WIND VELOCITY PRESSURE (qh)	31.3 PSF
SEISMIC DESIGN	
ASCE 7-10 ANALYSIS PROCEDURE	SECTION 12.8 EQUIVALENT LATERAL FORCE PROCEDURE
SEISMIC DESIGN CATEGORY	E
SEISMIC IMPORTANCE FACTOR	1.0
SITE CLASS	D
MAPPED MCE, 5% DAMPED, SPECTRAL RESPONSE ACCELERATION AT SHORT PERIOD (Ss)	1.875
SHORT PERIOD SITE COEFFICIENT (Fa)	1.0
DESIGN MCE, 5% DAMPED, SPECTRAL RESPONSE ACCELERATION AT SHORT PERIOD (Sds)	1.0
MAPPED MCE, 5% DAMPED, SPECTRAL RESPONSE ACCELERATION AT 1 SECOND PERIOD (S1)	1.3
LONG PERIOD SITE COEFFICIENT (Fv)	1.5
DESIGN, 5% DAMPED, SPECTRAL RESPONSE ACCELERATION AT 1 SECOND PERIOD (Sm)	1.3
HORIZONTAL OR VERTICAL IRREGULARITY TYPES	NONE

BUILDING DATA

CONSTRUCTION CLASSIFICATION	TYPE II-B
OCCUPANCY CLASSIFICATION	A-2
RISK CATEGORY	II
NUMBER OF STORIES	1

SHEET INDEX

GENERAL NOTES

I. SHELTER DESIGN
A. THE STRUCTURAL DESIGN OF THE COMPONENTS AND CONNECTIONS OF THIS SHELTER ARE SUFFICIENT FOR EAVE HEIGHTS RANGING FROM 7' UP TO 12' TALL.
B. REQUIRED EAVE HEIGHT FOR EACH SITE SHALL BE DETERMINED BY OWNER.
C. THIS SHELTER HAS BEEN DESIGNED AS AN OPEN STRUCTURE. THE ADDITION OF ANY ENCLOSURE DIRECTLY ATTACHED TO THE SHELTER, SUCH AS WALLS, INSECT MESH, OR SHADE SCREENS, SHALL BE PROHIBITED AS INCREASED WIND FORCES MAY RESULT.

II. DESIGN AND CONSTRUCTION STANDARDS
A. THE DESIGN OF THIS STRUCTURE IS IN CONFORMANCE WITH THE FOLLOWING STANDARDS AND ALL PHASES OF CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH THE FOLLOWING STANDARDS.
1. 2013 CALIFORNIA ADMINISTRATIVE CODE (CAC) ..... (PART 1, TITLE 24, CCR)
2. 2013 CALIFORNIA BUILDING CODE (CBC), VOLUMES 1 AND 2 (PART 2, TITLE 24, CCR) (2012 INTERNATIONAL BUILDING CODE WITH 2013 CALIFORNIA AMENDMENTS)
3. 2013 CALIFORNIA ELECTRICAL CODE ..... (PART 3, TITLE 24, CCR) (2011 NATIONAL ELECTRICAL CODE WITH 2013 CALIFORNIA AMENDMENTS)
4. 2013 CALIFORNIA MECHANICAL CODE (CMC) ..... (PART 4, TITLE 24, CCR) (2012 UNIFORM MECHANICAL CODE WITH 2013 CALIFORNIA AMENDMENTS)
5. 2013 CALIFORNIA PLUMBING CODE (CPC) ..... (PART 5, TITLE 24, CCR) (2012 UNIFORM PLUMBING CODE WITH 2013 CALIFORNIA AMENDMENTS)
6. 2013 CALIFORNIA ENERGY CODE ..... (PART 6, TITLE 24, CCR)
7. 2013 CALIFORNIA FIRE CODE (CFC) ..... (PART 9, TITLE 24, CCR) (2012 INTERNATIONAL FIRE CODE WITH 2013 CALIFORNIA AMENDMENTS)
8. 2013 CALIFORNIA GREEN BUILDING STANDARDS CODE ..... (PART 11, TITLE 24, CCR)
9. 2013 CALIFORNIA REFERENCED STANDARDS CODE ..... (PART 12, TITLE 24, CCR)
10. NFPA 13 - 2013
11. NFPA 72 - 2013

III. CONSTRUCTION CHANGES
A. CHANGES TO THE APPROVED PLANS AND SPECIFICATIONS SHALL BE MADE BY AN ADDENDA OR CONSTRUCTION CHANGE DOCUMENT APPROVED BY THE DIVISION OF THE STATE ARCHITECT AS REQUIRED BY PART 1, TITLE 24, C.C.R.

IV. FOUNDATION
A. THE FOUNDATION SHALL REST ON SOUND SOIL THAT IS FREE OF ORGANIC AND DELETERIOUS MATERIALS AND CAPABLE OF SUPPORTING 1000 PSF VERTICAL BEARING PRESSURE.
B. FOR LATERAL LOADING, THE FOUNDATION HAS BEEN DESIGNED TO THE MINIMUM LATERAL BEARING VALUE IN CBC TABLE 1806A.2. THIS IS 100 PSF/FT LATERAL BEARING.
C. FOUNDATION DESIGN SHOWN IS BASED ON SOIL CONDITIONS GIVEN IN NOTES A AND B, ABOVE. OWNER SHALL VERIFY ACTUAL SOIL CONDITIONS AT EACH JOB SITE AND ANY REQUIRED ADJUSTMENTS TO THE FOOTING DESIGN SHALL BE DESIGNED BY OTHERS.

V. CONCRETE
A. COMPRESSION STRENGTH OF ALL REINFORCED CONCRETE SHALL NOT BE LESS THAN 4000 PSI AT 28 DAYS.
B. REINFORCING BARS SHALL BE DEFORMED BARS CONFORMING TO THE REQUIREMENTS OF MINIMUM ASTM A615 GRADE 40 FOR #4 AND SMALLER BARS AND GRADE 60 FOR BARS LARGER THAN #4.
C. MINIMUM CONCRETE CLEAR COVER FOR REINFORCING BARS SHALL BE 3".
D. A CONCRETE MIX DESIGN IN ACCORDANCE WITH CBC SECTION CHAPTER 19A SHALL BE PERFORMED AND STAMPED BY A CIVIL ENGINEER LICENSED IN THE STATE OF CALIFORNIA. THE CONCRETE MIX DESIGN SHALL BE SUBMITTED TO THE INSPECTOR OF RECORD PRIOR TO CONSTRUCTION.
E. THE MIX DESIGN SHALL MEET THE CRITERIA HEREIN AND SHALL BE PROPER FOR LOCAL CONDITIONS INCLUDING, BUT NOT LIMITED TO, FREEZING AND THAWING EXPOSURE, CHEMICAL AND SALT EXPOSURE, AND SOIL CORROSIVITY WHERE SUCH PROBLEMS EXIST.
F. NON-SHRINK GROUT OR DRY PACK SHALL BE A PREMIXED, NONMETALLIC FORMULA WITH A MINIMUM COMPRESSIVE STRENGTH OF 7000 PSI AT 28 DAYS AND HAVING THE FOLLOWING CHARACTERISTICS: NO SHRINKAGE AFTER PLACEMENT OR EXPANSION AFTER SET (ASTM C1090). ONE DAY COMPRESSIVE STRENGTH OF AT LEAST 3000 PSI (ASTM C109) AND INITIAL SET TIME OF NOT LESS THAN 45 MINUTES (ASTM C191). PROVIDE "HI-FLOW GROUT" OR "DRY PACK GROUT" BY EUCLID, OR AN APPROVED EQUAL.

VI. STRUCTURAL STEEL
A. STEEL PLATE SHALL CONFORM TO THE REQUIREMENTS OF ASTM A36.
B. HOLLOW STRUCTURAL SECTIONS (HSS) SHALL CONFORM TO THE REQUIREMENTS OF ASTM A500, GRADE B.
C. ALL STRUCTURAL STEEL SHALL BE IDENTIFIED BY MILL CERTIFICATE.
D. HIGH STRENGTH BOLTS (HSB) SHALL BE GALVANIZED AND SHALL CONFORM TO THE REQUIRMENTS OF ASTM A325-N. HIGH STRENGTH BOLTS SHALL BE TIGHTENED TO A SNUG TIGHT CONDITION PLUS AN ADDITIONAL HALF TURN.
E. ALL HIGH STRENGTH BOLTS SHALL HAVE CERTIFICATION.
F. WELDING SHALL CONFORM TO THE REQUIREMENTS OF THE AMERICAN WELDING SOCIETY'S SPECIFICATION FOR THE MATERIAL BEING WELDED. ALL WELDING SHALL BE PERFORMED BY AWS CERTIFIED WELDERS.
G. WELD ELECTRODES SHALL BE E70XX AND SHALL CONFORM TO THE REQUIREMENTS OF AWS D1.8-6.3 FOR DEMAND CRITICAL WELDS.
H. ALL WELDING SHALL BE APPROVED BY AN AWS CERTIFIED INSPECTOR.
I. STEEL FRAMING SHALL BE COATED WITH ANTI-GRAFFITI POLYESTER TGIC POWDER COAT FINISH MEETING AAMA 2604-02 SPECIFICATIONS.
J. SHOP DRAWINGS OF ALL STRUCTURAL STEEL SHALL BE SUBMITTED TO HYYTINEN ENGINEERING FOR APPROVAL PRIOR TO FABRICATION.
K. ALL BOLT HOLE DIAMETERS SHALL BE EQUAL TO THE BOLT DIAMETER PLUS 1/16" U.N.O. BOLT HOLES FOR ANCHOR BOLTS SHALL BE EQUAL TO THE BOLT DIAMETER PLUS 1/8".
L. ANCHOR BOLTS SHALL CONFORM TO ASTM F1554, GRADE 36 AND SHALL BE HOT DIP GALVANIZED.

VII. ALUMINUM
A. INTERLOCKING SEAM ALUMINUM ROOF DECK SHALL BE ROLL FORMED FROM ALUMINUM ALLOY 3004-H151 AND SHALL CONFORM TO THE DECK PROFILE SHOWN ON THE DRAWINGS.
B. ALUMINUM ROOF DECK SHALL BE COATED WITH HEAT REFLECTIVE BASF ULTRA-COOL COATING OR APPROVED EQUAL.
C. EXTRUDED ALUMINUM RIDGE CAP SHALL BE FABRICATED FROM ALUMINUM ALLOY 6105-T5 AND SHALL CONFORM TO THE REQUIREMENTS SHOWN ON THE DRAWINGS.
D. EXTRUDED ALUMINUM FASCIA SHALL BE FABRICATED FROM ALUMINUM ALLOY 6063-T5. EXTRUDED ALUMINUM GUTTER SHAL BE FABRICATED FROM ALUMINUM ALLOY 6105-T5. ALUMINUM COMPONENTS SHALL CONFORM TO THE REQUIREMENTS SHOWN ON THE DRAWINGS.
E. EXTRUDED ALUMINUM RIDGE CAP, GUTTER, AND FASCIA SHALL BE COATED WITH ANTI-GRAFFITI POLYESTER TGIC POWDER COAT FINISH MEETING AAMA 2604-02 SPECIFICATIONS.

VIII. SCREWS
A. SCREWS SHALL BE HILTI KWIK-PRO SELF DRILLING SCREWS WITH BOND SEAL WASHERS PER ICC ESR-2196 OR APPROVED EQUAL.
B. SCREWS ATTACHING TO STEEL SHALL BE 12-24 HEX WASHER HEAD (HWH) #5 POINT SCREWS. SCREWS ATTACHING TO ALUMINUM SHALL BE 8-18 HEX WASHER HEAD (HWH) #2 POINT SCREWS.
C. ALL SCREWS SHALL BE STAINLESS STEEL OR COATED WITH ZINC.
D. THE MANUFACTURER SHALL PROVIDE A SCREW CERTIFICATION LETTER STATING THAT SCREWS PROVIDED MATCH THE SIZE AND TYPE SPECIFIED HEREIN. THE CERTIFICATION LETTER SHALL BE SUBMITTED TO THE INSPECTOR OF RECORD PRIOR TO INSTALLATION.

IX. SHOP FABRICATION AND FIELD ASSEMBLY
A. ALL STRUCTURAL STEEL AND ALUMINUM COMPONENTS SHALL BE SHOP FABRICATED SO THAT FIELD ASSEMBLY OF CONNECTIONS CAN BE PERFORMED USING ONLY BOLTING AND SCREW PLACEMENT.

X. SPECIAL INSPECTION
A. THE OWNER SHALL EMPLOY A SPECIAL INSPECTOR TO PERFORM INSPECTION OF THE CONSTRUCTION OF THIS PC IN ACCORDANCE WITH THE REQUIREMENTS OF CHAPTER 17A OF THE 2013 CALIFORNIA BUILDING CODE (PART 2, TITLE 24, C.C.R.) AND THE DIVISION OF THE STATE ARCHITECT.

XI. FIRE LIFE SAFETY
A. AN AUTOMATIC FIRE PROTECTION SYSTEM MAY BE REQUIRED FOR THIS BUILDING DEPENDING ON SITE SPECIFIC REQUIREMENTS. WHERE REQUIRED, THE AUTOMATIC FIRE PROTECTION SYSTEM SHALL BE DESIGNED BY OTHERS.
B. THE DESIGN OF THIS SHELTER IS CAPABLE OF SUPPORTING THE WEIGHT OF A FIRE SPRINKLER SYSTEM (1.5 PSF).
C. THE METAL ROOFING COMPLIES WITH FIRE CLASSIFICATION B. THIS SHELTER HAS NOT BEEN DESIGNED FOR PLACEMENT WITHIN ANY FIRE HAZARD SEVERITY ZONE.

NOTICE OF DISCLAIMER FOR STRUCTURAL ENGINEERING RESPONSIBILITY

1. PER TITLE 24, PART 1, SECTION 4-316(e) OF THE CALIFORNIA CODE OF REGULATIONS, THIS NOTICE SHALL BE GIVEN TO DSA PRIOR TO THE APPROVAL OF PLANS AND SPECIFICATIONS.
2. FOR THE SITE SPECIFIC PROJECT, ROGER HYYTINEN IS NOT THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE, UNLESS NOTED OTHERWISE.
3. FOR THE SITE SPECIFIC PROJECT, ROGER HYYTINEN'S RESPONSIBILITY IS LIMITED TO THE PREPARATION OF PLANS AND SPECIFICATIONS FOR THE SHELTER(S) OF THIS PC ONLY.
4. STRUCTURAL OBSERVATION OF CONSTRUCTION IS SPECIFICALLY EXCLUDED FROM ROGER HYYTINEN'S RESPONSIBILITY FOR THE SITE SPECIFIC PROJECT.
5. ALL CONSTRUCTION ACTIVITIES RELATED TO STRUCTURAL ENGINEERING SHALL BE DELEGATED TO A QUALIFIED ENGINEER BY THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE. THESE ACTIVITIES INCLUDE, BUT ARE NOT LIMITED TO, APPROVAL OF INSPECTOR QUALIFICATIONS, STRUCTURAL OBSERVATION OF CONSTRUCTION, REVIEW OF INSPECTION REPORTS, AND SIGNING OFF THE VERIFIED REPORT FOR COMPLETED WORK.
6. ROGER HYYTINEN WILL BE RESPONSIBLE FOR RESPONDING TO QUESTIONS PERTAINING TO THE PLANS AND SPECIFICATIONS FOR THE SHELTER(S) OF THIS PC WHICH ARISE DURING PLAN CHECK AND CONSTRUCTION.
7. IN THE EVENT THAT ROGER HYYTINEN IS REQUIRED TO PROVIDE STRUCTURAL OBSERVATION OF CONSTRUCTION, HE SHALL BE NOTIFIED IN WRITING PRIOR TO THIS REQUIREMENT BEING MADE. ALSO, HIS ANTICIPATED ADDITIONAL FEES FOR THIS ADDITIONAL WORK SHALL BE PAID IN ADVANCE, PRIOR TO ANY STRUCTURAL OBSERVATION OR CONSTRUCTION SERVICES BEING PERFORMED.

PRE-CHECK (PC) DOCUMENT
CODE: 2013 CBC
A separate project application for construction is required.

STATE OF CALIFORNIA
DEPARTMENT OF GENERAL SERVICES
OCT 23 2014
DIVISION OF THE STATE ARCHITECT
DSA/SFM OFFICE OF REGULATION SERVICES
FILE NO.: PC-058
APPL. NO.: 02-113840

HYYTINEN ENGINEERING
5458 Longley Lane, Suite B
Reno, Nevada 89511
(775) 826-3019 PHONE
(775) 826-3076 FAX

REGISTERED PROFESSIONAL ENGINEER
ROGER C. HYYTINEN
No. 52732
EXP. 11-30-14
STRUCTURAL
STATE OF CALIFORNIA

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
02 113840
AC. TM FLS BC SS SF
DATE 10/23/14
PC

PROJECT:
AMERICANA SHELTERS
AMERICANA BUILDING PRODUCTS
#2 Industrial Dr. - Salem, IL 62881
(800)851-0865 www.americana.com

SITE ADDRESS:

SHEET TITLE:
DESIGN NOTES, EXAMPLE FORM DSA 103

DRAWN: NVGI
CHECKED: R.H.
DATE: 10/21/14
SCALE: AS NOTED
JOB NO.: 44-14
DRAWING NO.: G.1
SHEET: G.1

EXAMPLE FORM DSA 103

NOTE: THE EXAMPLE FORM DSA-103 SHOWN ON THIS SHEET IS FOR ILLUSTRATION PURPOSES ONLY TO ASSIST IN THE COMPLETION OF FUTURE PROJECT SPECIFIC FORM DSA-103'S. A FORM DSA-103 IS TO BE COMPLETED FOR EACH APPLICATION THAT THIS PC IS BEING INCORPORATED INTO AND THE EXAMPLE FORM DSA-103 IS TO BE CROSSED OUT ON THIS DRAWING.

Note: References are to the 2013 edition of the California Building Code (CBC) unless otherwise noted.

REQUIRED	TEST OR SPECIAL INSPECTION	TYPE[1]	PERFORMED BY[2]	
-	**SOILS**			
	1. GENERAL:	**Table 1705A.6**		
X	**a.** Verify that: • site has been prepared properly prior to placement of controlled fill and/or excavations for foundations, • foundation excavations are extended to proper depth and have reached proper material, and • materials below footings are adequate to achieve the design bearing capacity.	**Periodic**	**GE***	* By geotechnical engineer or his or her qualified representative. Use PI in lieu of GE if there is no GE for the site specific project.
-	**2. COMPACTED FILLS:**	**Table 1705A.6**		
X	**a.** Perform qualification testing of fill materials.	**Test**	**Lab***	* Under the supervision of the geotechnical engineer.
X	**b.** Verify use of proper materials and inspect lift thicknesses, placement, and compaction during placement of fill.	**Continuous**	**GE***	* By geotechnical engineer or his or her qualified representative. Use PI in lieu of GE if there is no GE for the site specific project.
X	**c.** Test compaction of fill.	**Test**	**Lab***	* Under the supervision of the geotechnical engineer.
-	**4. CAST-IN-PLACE DEEP FOUNDATIONS (PIERS):**	**Table 1705A.7**		
X	**a.** Inspect drilling operations and maintain complete and accurate records for each pier.	**Continuous**	**GE***	* By geotechnical engineer or his or her qualified representative. Use PI in lieu of GE if there is no GE for the site specific project.
X	**b.** Verify locations of piers.	**Continuous**	**PI**	
X	**c.** Confirm pier diameters, plumbness, bell diameters (if applicable), lengths, and embedment into bedrock (if applicable). Record concrete or grout volumes.	**Continuous**	**GE***	* By geotechnical engineer or his or her qualified representative. Use PI in lieu of GE if there is no GE for the site specific project.
X	**d.** Confirm adequate end strata bearing capacity.	**Test**	**Lab***	* Under the supervision of the geotechnical engineer.
X	**e.** Concrete piers.	Provide tests and inspections per CONCRETE section below.		
-	**CONCRETE**	**Table 1705A.3**		
-	**7. CAST IN PLACE CONCRETE**			
	Material Verification and Testing:			
X	**a.** Verify use of required design mix.	**Periodic**	**SI & PI***	* To be performed by batch-plant special inspector and project inspector.
X	**c.** Perform slump, temperature, and (where required) air content tests.	**Test**	**Lab**	ASTM C172, ASTM C31.
X	**d.** Test concrete (compression).	**Test**	**Lab**	**ACI 318 Section 5.6 and 1905A.1.2** (1913.3.1*). ASTM C39.
	Inspection:			
X	**e.** Batch plant inspection	**Continuous**	**SI**	**1705A.3.2**: If approved by DSA, batch plant inspection may be reduced to periodic if plant complies with **1705A.3.3**, Item 1, and requires first batch inspection, weighmaster, and batch tickets.
X	**g.** Inspect placement of formwork, reinforcing steel, embedded items and concrete. Inspect curing and form removal.	**Continuous**	**PI***	* May be performed by a special inspector when specifically approved by DSA.
+	**MASONRY**	**TMS 402-11/ACI 530-11/ASCE 5-11 Table 1.19.3**		
-	**STEEL**	**Table 1705A.2.1**		
-	**17. STRUCTURAL STEEL AND COLD-FORMED STEEL USED FOR STRUCTURAL PURPOSES**			
	Material Verification:			
X	**a.** Verify that all materials are appropriately marked and that: • Mill certificates indicate material properties that comply with requirements, • Material sizes, types and grades comply with requirements.	**Periodic**	*	* By special inspector when performed off-site; by project inspector for steel shipped directly to project site without welding or fabrication.
X	**b.** Test unidentified materials	**Test**	**Lab**	**2203A.1** (2203.1*). ASTM A370.
X	**c.** Examine seam welds of structural tubes and pipes	**Periodic**	**SI***	* DSA IR 17-3.
	Inspection:			
X	**d.** Verify member locations, bracing and all details constructed in the field.	**Continuous**	**PI**	
X	**e.** Verify stiffener locations, connection tab locations and all construction details fabricated in the shop.	**Periodic**	**SI**	
-	**18. HIGH STRENGTH BOLTS:**			
	Material Verification of High-Strength Bolts, Nuts, and Washers:			
X	**a.** Verify identification markings and manufacturer's certificates of compliance conform to ASTM standards specified in the DSA approved documents.	**Periodic**	**SI**	DSA IR 17-9
X	**b.** Test high-strength bolts, nuts and washers.	**Test**	**Lab**	**2213A.1** (2212.6.1*). ASTM F606, A370. DSA IR 17-8
	Inspection of High-Strength Bolt Installation:			
X	**c.** Bearing-type ("snug tight") connections.	**Periodic**	**SI***	DSA IR 17-9
	19. WELDING:			DSA IR 17-3, AWS D1.1 and AWS D1.8 (AWS D1.3 for cold formed steel).
	Verification of Materials, Equipment, Welders, etc:			
X	**a.** Verify weld filler material identification markings per AWS designation listed on the DSA approved documents and the WPS.	**Periodic**	**SI**	
X	**b.** Verify weld filler material manufacturer's certificate of compliance.	**Periodic**	**SI**	
X	**c.** Verify WPS, welder qualifications and equipment.	**Periodic**	**SI**	DSA IR 17-3.
-	**19.1 SHOP WELDING:**			
X	**a.** Inspect groove, multi-pass, and fillet welds > 5/16"	**Continuous**	**SI**	Per AISC 360 (and AISC 341 as applicable). DSA IR 17-3.
X	**b.** Inspect single-pass fillet welds ≤ 5/16"	**Periodic**	**SI**	Per AISC 360 (and AISC 341 as applicable). DSA IR 17-3.
+	**WOOD**			
+	**OTHER**			

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KEY to Columns

1 Type -	2 Performed By -
Continuous – Indicates that a continuous special inspection is required	**GE** – Indicates that the special inspection is to be performed by a registered geotechnical engineer or his or her authorized representative
Periodic – Indicates that a periodic special inspection is required	**Lab** – Indicates that the test or inspection is to be performed by a testing laboratory accepted in the DSA laboratory Evaluation and Acceptance (LEA) Program. See section 4-335, 2013 CCR Title 24, Part 1.
Test – Indicates that a test is required	**PI** – Indicates that the special inspection is to be performed by the project inspector
	SI – Indicates that the special inspection is to be performed by a special inspector

2013 CBC PC STRUCTURAL DESIGN NOTES

DESCRIPTION	DESIGN VALUES
DEAD AND LIVE LOADS	
ROOF LIVE LOAD (Lr)	20 PSF
ROOF DEAD LOAD (D)	5 PSF
ALLOWABLE SOIL PRESSURE	
DL	1000 PSF
DL+Lr	1000 PSF
DL+SNOW	1000 PSF
ROOF SNOW LOAD	
GROUND SNOW LOAD (Pg)	22 PSF
SLOPED ROOF SNOW LOAD (Ps)	20 PSF
SNOW EXPOSURE FACTOR (Ce)	1.1
SNOW IMPORTANCE FACTOR (I)	1.0
THERMAL FACTOR (Ct)	1.2
FLOOD DESIGN	
FLOOD HAZARD AREA	NO
WIND DESIGN	
ULTIMATE DESIGN WIND SPEED (Vult)	130 MPH
WIND EXPOSURE FACTOR	C
TOPOGRAPHIC FACTOR (Kzt)	1.0
ASCE 7-10 WIND ANALYSIS METHOD	CHAPTER 27 DIRECTIONAL PROCEDURE
VELOCITY PRESSURE EXPOSURE COEFFICIENT (Kz)	0.85
NET PRESSURE COEFFICIENT	VARIES, SEE CALCULATIONS
WIND DIRECTIONALITY FACTOR (Kd)	0.85
WIND VELOCITY PRESSURE (qh)	31.3 PSF
SEISMIC DESIGN	
LATERAL FORCE RESISTING SYSTEM	STEEL ORDINARY MOMENT RESISTING FRAMES
ASCE 7-10 ANALYSIS PROCEDURE	SECTION 12.8 EQUIVALENT LATERAL FORCE PROCEDURE
SEISMIC DESIGN CATEGORY	E
SEISMIC IMPORTANCE FACTOR	1.0
DESIGN BASE SHEAR (V)	1305 #
SEISMIC RESPONSE COEFFICIENT (C_s)	0.29
RESPONSE MODIFICATION FACTOR (R)	3.5
SYSTEM OVERSTRENGTH FACTOR (Ω_0)	3.0
DEFLECTION AMPLIFICATION FACTOR (Cd)	3.0
SITE CLASS	D
MAPPED MCE, 5% DAMPED, SPECTRAL RESPONSE ACCELERATION AT SHORT PERIOD (S_s)	1.875
SHORT PERIOD SITE COEFFICIENT (Fa)	1.0
DESIGN MCE, 5% DAMPED, SPECTRAL RESPONSE ACCELERATION AT SHORT PERIOD (S_{DS})	1.0
MAPPED MCE, 5% DAMPED, SPECTRAL RESPONSE ACCELERATION AT 1 SECOND PERIOD (S_1)	1.3
LONG PERIOD SITE COEFFICIENT (Fv)	1.5
DESIGN, 5% DAMPED, SPECTRAL RESPONSE ACCELERATION AT 1 SECOND PERIOD (S_{D1})	1.3
HORIZONTAL OR VERTICAL IRREGULARITY TYPES	NONE

BUILDING DATA

CONSTRUCTION CLASSIFICATION	TYPE II-B
OCCUPANCY CLASSIFICATION	A-2
RISK CATEGORY	II
NUMBER OF STORIES	1
MINIMUM SEISMIC SEPARATION	3"
BUILDING AREA	900 SF

NOTICE OF DISCLAIMER FOR STRUCTURAL ENGINEERING RESPONSIBILITY

1. PER TITLE 24, PART 1, SECTION 4-316(e) OF THE CALIFORNIA CODE OF REGULATIONS, THIS NOTICE SHALL BE GIVEN TO DSA PRIOR TO THE APPROVAL OF PLANS AND SPECIFICATIONS.
2. FOR THE SITE SPECIFIC PROJECT, ROGER HYYTINEN IS NOT THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE, UNLESS OTHERWISE NOTED.
3. FOR THE SITE SPECIFIC PROJECT, ROGER HYYTINEN'S RESPONSIBILITY IS LIMITED TO THE PREPARATION OF PLANS AND SPECIFICATIONS FOR THE SHELTER(S) OF THIS PC ONLY.
4. STRUCTURAL OBSERVATION OF CONSTRUCTION IS SPECIFICALLY EXCLUDED FROM ROGER HYYTINEN'S RESPONSIBILITY FOR THE SITE SPECIFIC PROJECT.
5. ALL CONSTRUCTION ACTIVITIES RELATED TO STRUCTURAL ENGINEERING SHALL BE DELEGATED TO A QUALIFIED ENGINEER BY THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE. THESE ACTIVITIES INCLUDE, BUT ARE NOT LIMITED TO, APPROVAL OF INSPECTOR QUALIFICATIONS, STRUCTURAL OBSERVATION OF CONSTRUCTION, REVIEW OF INSPECTION REPORTS, AND SIGNING OFF THE VERIFIED REPORT FOR COMPLETED WORK.
6. ROGER HYYTINEN WILL BE RESPONSIBLE FOR RESPONDING TO QUESTIONS PERTAINING TO THE PLANS AND SPECIFICATIONS FOR THE SHELTER(S) OF THIS PC WHICH ARISE DURING PLAN CHECK AND CONSTRUCTION.
7. IN THE EVENT THAT ROGER HYYTINEN IS REQUIRED TO PROVIDE STRUCTURAL OBSERVATION OF CONSTRUCTION, HE SHALL BE NOTIFIED IN WRITING PRIOR TO THIS REQUIREMENT BEING MADE. ALSO, HIS ANTICIPATED ADDITIONAL FEES FOR THIS ADDITIONAL WORK SHALL BE PAID IN ADVANCE, PRIOR TO ANY STRUCTURAL OBSERVATION OR CONSTRUCTION SERVICES BEING PERFORMED.

GENERAL NOTES

I. SHELTER DESIGN
- A. THE STRUCTURAL DESIGN OF THE COMPONENTS AND CONNECTIONS OF THIS SHELTER ARE SUFFICIENT FOR EAVE HEIGHTS RANGING FROM 7' UP TO 12' TALL.
- B. REQUIRED EAVE HEIGHT FOR EACH SITE SHALL BE DETERMINED BY OWNER.
- C. THIS SHELTER HAS BEEN DESIGNED AS AN OPEN STRUCTURE. THE ADDITION OF ANY ENCLOSURE DIRECTLY ATTACHED TO THE SHELTER, SUCH AS WALLS, INSECT MESH, OR SHADE SCREENS, SHALL BE PROHIBITED AS INCREASED WIND FORCES MAY RESULT.

II. DESIGN AND CONSTRUCTION STANDARDS
- A. THE DESIGN OF THIS STRUCTURE IS IN CONFORMANCE WITH THE FOLLOWING STANDARDS AND ALL PHASES OF CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH THE FOLLOWING STANDARDS.
  1. 2013 CALIFORNIA ADMINISTRATIVE CODE (CAC) ..... (PART 1, TITLE 24, CCR)
  2. 2013 CALIFORNIA BUILDING CODE (CBC), VOLUMES 1 AND 2 (PART 2, TITLE 24, CCR) (2012 INTERNATIONAL BUILDING CODE WITH 2013 CALIFORNIA AMENDMENTS)
  3. 2013 CALIFORNIA ELECTRICAL CODE ..... (PART 3, TITLE 24, CCR) (2011 NATIONAL ELECTRICAL CODE WITH 2013 CALIFORNIA AMENDMENTS)
  4. 2013 CALIFORNIA MECHANICAL CODE (CMC) ..... (PART 4, TITLE 24, CCR) (2012 UNIFORM MECHANICAL CODE WITH 2013 CALIFORNIA AMENDMENTS)
  5. 2013 CALIFORNIA PLUMBING CODE (CPC) ..... (PART 5, TITLE 24, CCR) (2012 UNIFORM PLUMBING CODE WITH 2013 CALIFORNIA AMENDMENTS)
  6. 2013 CALIFORNIA ENERGY CODE ..... (PART 6, TITLE 24, CCR)
  7. 2013 CALIFORNIA FIRE CODE (CFC) ..... (PART 9, TITLE 24, CCR) (2012 INTERNATIONAL FIRE CODE WITH 2013 CALIFORNIA AMENDMENTS)
  8. 2013 CALIFORNIA GREEN BUILDING STANDARDS CODE .....(PART 11, TITLE 24, CCR)
  9. 2013 CALIFORNIA REFERENCED STANDARDS CODE ..... (PART 12, TITLE 24, CCR)
  10. NFPA 13 - 2013
  11. NFPA 72 - 2013

III. CONSTRUCTION CHANGES
- A. CHANGES TO THE APPROVED PLANS AND SPECIFICATIONS SHALL BE MADE BY AN ADDENDA OR CONSTRUCTION CHANGE DOCUMENT APPROVED BY THE DIVISION OF THE STATE ARCHITECT AS REQUIRED BY PART 1, TITLE 24, C.C.R.

IV. FOUNDATION
- A. THE FOUNDATION SHALL REST ON SOUND SOIL THAT IS FREE OF ORGANIC AND DELETERIOUS MATERIALS AND CAPABLE OF SUPPORTING 1000 PSF VERTICAL BEARING PRESSURE.
- B. FOR LATERAL LOADING, THE FOUNDATION HAS BEEN DESIGNED TO THE MINIMUM LATERAL BEARING VALUE IN CBC TABLE 1806A.2. THIS IS 100 PSF/FT LATERAL BEARING.
- C. FOUNDATION DESIGN SHOWN IS BASED ON SOIL CONDITIONS GIVEN IN NOTES A AND B, ABOVE. OWNER SHALL VERIFY ACTUAL SOIL CONDITIONS AT EACH JOB SITE AND ANY REQUIRED ADJUSTMENTS TO THE FOOTING DESIGN SHALL BE DESIGNED BY OTHERS.

V. CONCRETE
- A. COMPRESSION STRENGTH OF ALL REINFORCED CONCRETE SHALL NOT BE LESS THAN 4000 PSI AT 28 DAYS.
- B. REINFORCING BARS SHALL BE DEFORMED BARS CONFORMING TO THE REQUIREMENTS OF MINIMUM ASTM A615 GRADE 40 FOR #4 AND SMALLER BARS AND GRADE 60 FOR BARS LARGER THAN #4.
- C. MINIMUM CONCRETE CLEAR COVER FOR REINFORCING BARS SHALL BE 3".
- D. A CONCRETE MIX DESIGN IN ACCORDANCE WITH CBC SECTION CHAPTER 19A SHALL BE PERFORMED AND STAMPED BY A CIVIL ENGINEER LICENSED IN THE STATE OF CALIFORNIA. THE CONCRETE MIX DESIGN SHALL BE SUBMITTED TO THE INSPECTOR OF RECORD PRIOR TO CONSTRUCTION.
- E. THE MIX DESIGN SHALL MEET THE CRITERIA HEREIN AND SHALL BE PROPER FOR LOCAL CONDITIONS INCLUDING, BUT NOT LIMITED TO, FREEZING AND THAWING EXPOSURE, CHEMICAL AND SALT EXPOSURE, AND SOIL CORROSIVITY WHERE SUCH PROBLEMS EXIST.
- F. NON-SHRINK GROUT OR DRY PACK SHALL BE A PREMIXED, NONMETALLIC FORMULA WITH A MINIMUM COMPRESSIVE STRENGTH OF 7000 PSI AT 28 DAYS AND HAVING THE FOLLOWING CHARACTERISTICS: NO SHRINKAGE AFTER PLACEMENT OR EXPANSION AFTER SET (ASTM C1090), ONE DAY COMPRESSIVE STRENGTH OF AT LEAST 3000 PSI (ASTM C109) AND INITIAL SET TIME OF NOT LESS THAN 45 MINUTES (ASTM C191). PROVIDE "HI-FLOW GROUT" OR "DRY PACK GROUT" BY EUCLID, OR AN APPROVED EQUAL.

VI. STRUCTURAL STEEL
- A. STEEL PLATE SHALL CONFORM TO THE REQUIREMENTS OF ASTM A36.
- B. HOLLOW STRUCTURAL SECTIONS (HSS) SHALL CONFORM TO THE REQUIREMENTS OF ASTM A500, GRADE B.
- C. ALL STRUCTURAL STEEL SHALL BE IDENTIFIED BY MILL CERTIFICATE.
- D. HIGH STRENGTH BOLTS (HSB) SHALL BE GALVANIZED AND SHALL CONFORM TO THE REQUIRMENTS OF ASTM A325-N. HIGH STRENGTH BOLTS SHALL BE TIGHTENED TO A SNUG TIGHT CONDITION PLUS AN ADDITIONAL HALF TURN.
- E. ALL HIGH STRENGTH BOLTS SHALL HAVE CERTIFICATION.
- F. WELDING SHALL CONFORM TO THE REQUIREMENTS OF THE AMERICAN WELDING SOCIETY'S SPECIFICATION FOR THE MATERIAL BEING WELDED. ALL WELDING SHALL BE PERFORMED BY AWS CERTIFIED WELDERS.
- G. WELD ELECTRODES SHALL BE E70XX AND SHALL CONFORM TO THE REQUIREMENTS OF AWS D1.5-6.3 FOR DEMAND CRITICAL WELDS.
- H. ALL WELDING SHALL BE APPROVED BY AN AWS CERTIFIED INSPECTOR.
- I. STEEL FRAMING SHALL BE COATED WITH ANTI-GRAFFITI POLYESTER TGIC POWDER COAT FINISH MEETING AAMA 2604-02 SPECIFICATIONS.
- J. SHOP DRAWINGS OF ALL STRUCTURAL STEEL SHALL BE SUBMITTED TO HYYTINEN ENGINEERING FOR APPROVAL PRIOR TO FABRICATION.
- K. ALL BOLT HOLE DIAMETERS SHALL BE EQUAL TO THE BOLT DIAMETER PLUS 1/16" U.N.O. BOLT HOLES FOR ANCHOR BOLTS SHALL BE EQUAL TO THE BOLT DIAMETER PLUS 1/8".
- L. ANCHOR BOLTS SHALL CONFORM TO ASTM F1554, GRADE 36 AND SHALL BE HOT DIP GALVANIZED.

VII. ALUMINUM
- A. INTERLOCKING SEAM ALUMINUM ROOF DECK SHALL BE ROLL FORMED FROM ALUMINUM ALLOY 3004-H151 AND SHALL CONFORM TO THE DECK PROFILE SHOWN ON THE DRAWINGS.
- B. ALUMINUM ROOF DECK SHALL BE COATED WITH HEAT REFLECTIVE BASF ULTRA-COOL COATING OR APPROVED EQUAL.
- C. EXTRUDED ALUMINUM RIDGE CAP SHALL BE FABRICATED FROM ALUMINUM ALLOY 6105-T5 AND SHALL CONFORM TO THE REQUIREMENTS SHOWN ON THE DRAWINGS.
- D. EXTRUDED ALUMINUM FASCIA SHALL BE FABRICATED FROM ALUMINUM ALLOY 6063-T5. EXTRUDED ALUMINUM GUTTER SHAL BE FABRICATED FROM ALUMINUM ALLOY 6105-T5. ALUMINUM COMPONENTS SHALL CONFORM TO THE REQUIREMENTS SHOWN ON THE DRAWINGS.
- E. EXTRUDED ALUMINUM RIDGE CAP, GUTTER, AND FASCIA SHALL BE COATED WITH ANTI-GRAFFITI POLYESTER TGIC POWDER COAT FINISH MEETING AAMA 2604-02 SPECIFICATIONS.

VIII. SCREWS
- A. SCREWS SHALL BE HILTI KWIK-PRO SELF DRILLING SCREWS WITH BOND SEAL WASHERS PER ICC ESR-2196 OR APPROVED EQUAL.
- B. SCREWS ATTACHING TO STEEL SHALL BE 12-24 HEX WASHER HEAD (HWH) #5 POINT SCREWS. SCREWS ATTACHING TO ALUMINUM SHALL BE 8-18 HEX WASHER HEAD (HWH) #2 POINT SCREWS.
- C. ALL SCREWS SHALL BE STAINLESS STEEL OR COATED WITH ZINC.
- D. THE MANUFACTURER SHALL PROVIDE A SCREW CERTIFICATION LETTER STATING THAT SCREWS PROVIDED MATCH THE SIZE AND TYPE SPECIFIED HEREIN. THE CERTIFICATION LETTER SHALL BE SUBMITTED TO THE INSPECTOR OF RECORD PRIOR TO INSTALLATION.

IX. SHOP FABRICATION AND FIELD ASSEMBLY
- A. ALL STRUCTURAL STEEL AND ALUMINUM COMPONENTS SHALL BE SHOP FABRICATED SO THAT FIELD ASSEMBLY OF CONNECTIONS CAN BE PERFORMED USING ONLY BOLTING AND SCREW PLACEMENT.

X. SPECIAL INSPECTION
- A. THE OWNER SHALL EMPLOY A SPECIAL INSPECTOR TO PERFORM INSPECTION OF THE CONSTRUCTION OF THIS PC IN ACCORDANCE WITH THE REQUIREMENTS OF CHAPTER 17A OF THE 2013 CALIFORNIA BUILDING CODE (PART 2, TITLE 24, C.C.R.) AND THE DIVISION OF THE STATE ARCHITECT.

XI. FIRE LIFE SAFETY
- A. AN AUTOMATIC FIRE PROTECTION SYSTEM MAY BE REQUIRED FOR THIS BUILDING DEPENDING ON SITE SPECIFIC REQUIREMENTS. WHERE REQUIRED, THE AUTOMATIC FIRE PROTECTION SYSTEM SHALL BE DESIGNED BY OTHERS.
- B. THE DESIGN OF THIS SHELTER IS CAPABLE OF SUPPORTING THE WEIGHT OF A FIRE SPRINKLER SYSTEM (1.5 PSF).
- C. THE METAL ROOFING COMPLIES WITH FIRE CLASSIFICATION B. THIS SHELTER HAS NOT BEEN DESIGNED FOR PLACEMENT WITHIN ANY FIRE HAZARD SEVERITY ZONE.

SITE SPECIFIC OPTIONS

TO BE COMPLETED PRIOR TO PLAN CHECK SUBMITTAL.

QUANTITY OF SHELTERS OF THIS PC AT THIS SITE	_____
SHELTER EAVE HEIGHT (7'-6" MIN, 12' MAX)	
CONCRETE SLAB OR ASPHALT PAVING (BY OTHERS) OVER FOOTINGS?	☐ YES ☐ NO
ROOF DOWNSPOUTS?	☐ YES ☐ NO
ALUMINUM "V" PLUGS IN ROOF VOIDS FOR BIRD CONTROL?	☐ YES ☐ NO

SHEET INDEX

PRE-CHECK (PC) DOCUMENT
CODE: 2013 CBC
A separate project application for construction is required.

FILE NO.: PC-058
APPL. NO.: 02-113840

HYYTINEN ENGINEERING
5458 Longley Lane, Suite B
Reno, Nevada 89511
(775) 826-3019 PHONE
(775) 826-3076 FAX

REGISTERED PROFESSIONAL ENGINEER ROGER G. HYYTINEN No. S2732 Exp. 12-31-14 STRUCTURAL STATE OF CALIFORNIA

IDENTIFICATION STAMP ONLY OF THE STATE ARCHITECT
02 113840
AC TM FLS SS SF
DATE 10/29/14

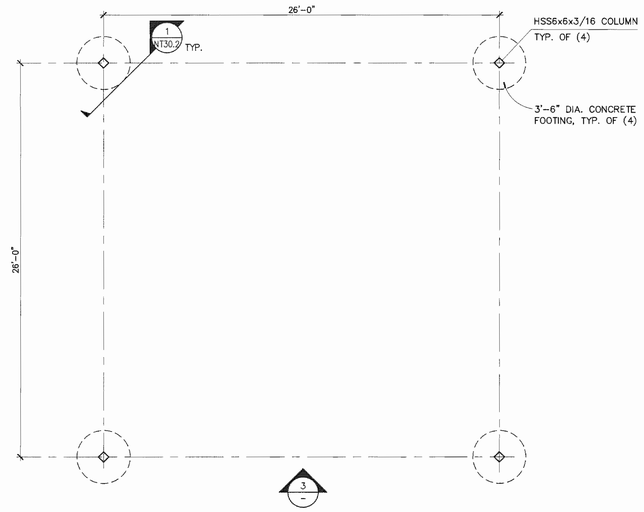
PC

PROJECT:
30' NAVAJO SHELTERS
AMERICANA BUILDING PRODUCTS
#2 Industrial Dr. - Salem, IL 62881
(800)851-0865 www.americana.com

SITE ADDRESS:

SHEET TITLE:
DESIGN NOTES, EXAMPLE FORM DSA 103

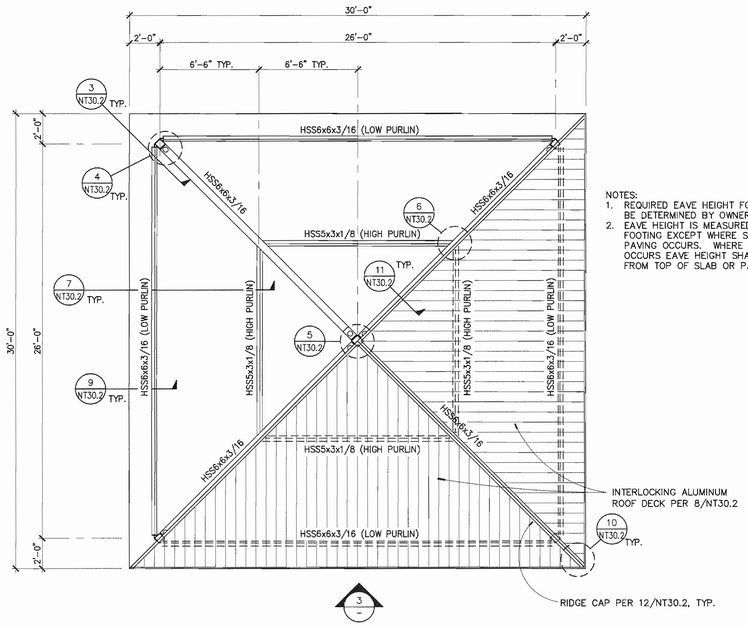
DRAWN: NVGI
CHECKED: R.H.
DATE: 10/21/14
SCALE: AS NOTED
JOB NO.: 44-14
DRAWING NO.: NT30
SHEET: NT30.0



30' NAVAJO SHELTER FOUNDATION PLAN

1/4" = 1'-0"

1

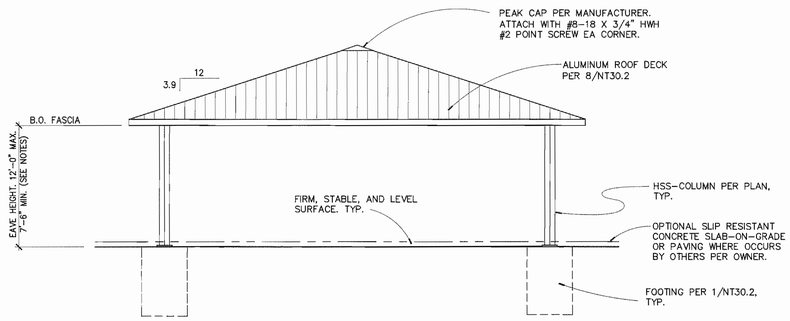


NOTES:
1. REQUIRED EAVE HEIGHT FOR EACH SITE SHALL BE DETERMINED BY OWNER.
2. EAVE HEIGHT IS MEASURED FROM TOP OF FOOTING EXCEPT WHERE SLAB-ON-GRADE OR PAVING OCCURS. WHERE SLAB OR PAVING OCCURS EAVE HEIGHT SHALL BE MEASURED FROM TOP OF SLAB OR PAVING.

30' NAVAJO SHELTER ROOF PLAN

1/4" = 1'-0"

2



BUILDING ELEVATION

1/4" = 1'-0"

3

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APPL. NO.: 02-113840

HYYTINEN ENGINEERING
5468 Longley Lane, Suite B
Reno, Nevada 89511
(775) 826-3019 PHONE
(775) 826-3076 FAX

REGISTERED PROFESSIONAL ENGINEER
ROGER S. HYYTINEN
No. 52715
EXP. 12-31-14
STATE OF CALIFORNIA

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
02 113840
AC TM P.E. SC SI
DATE 10/27/14

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PLANS AND ELEVATIONS

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SCALE: AS NOTED
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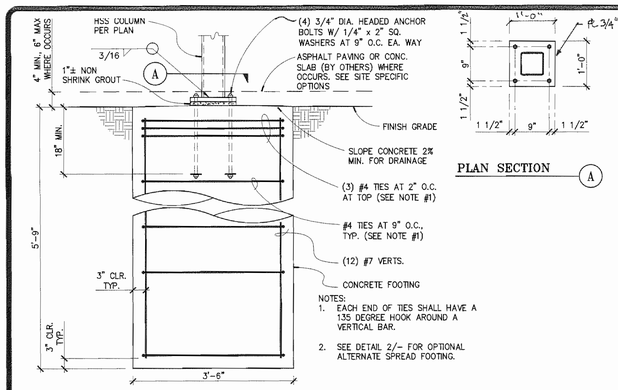
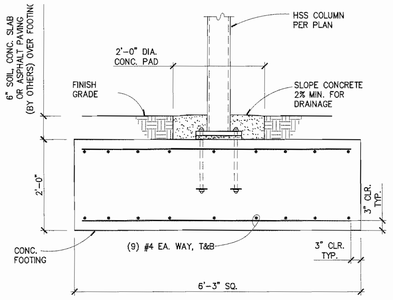
DRAWING NO.: NT30
SHEET: NT30.1



PLAN SECTION A

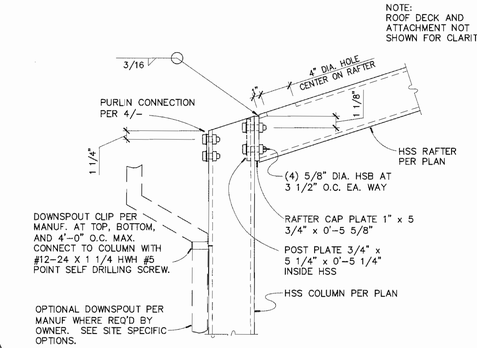
FOUNDATION SECTION
3/4" = 1'-0"

1



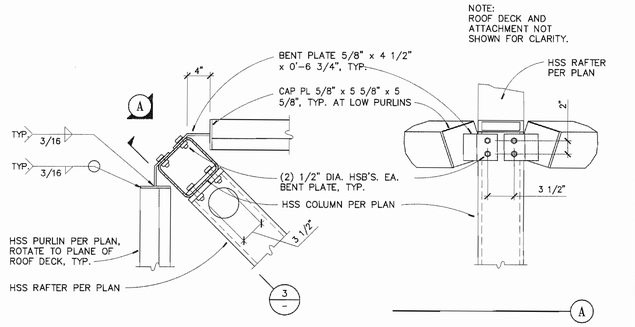
ALTERNATE FOUNDATION SECTION
3/4" = 1'-0"

2



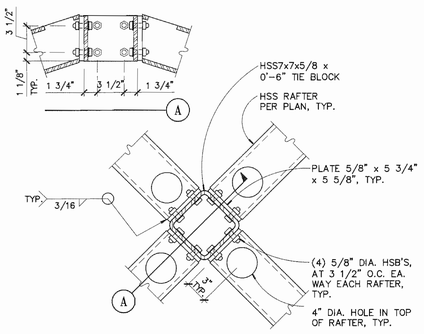
RAFTER TO COLUMN CONNECTION
1 1/2" = 1'-0"

3



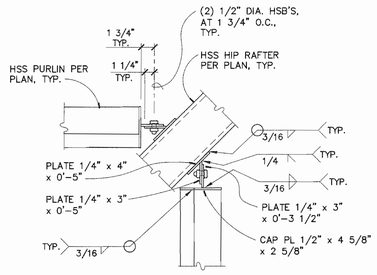
LOW PURLIN TO COLUMN CONNECTION
1 1/2" = 1'-0"

4



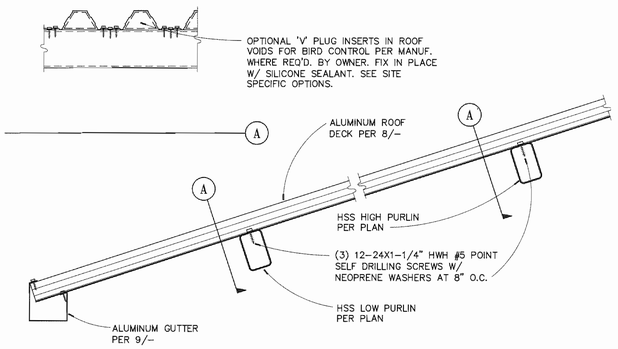
RAFTER TO TIE-BLOCK CONNECTION
1 1/2" = 1'-0"

5



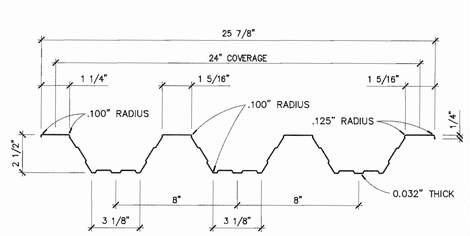
HIGH PURLIN TO RAFTER CONNECTION
1 1/2" = 1'-0"

6



ROOF DECK TO PURLIN CONNECTIONS
1 1/2" = 1'-0"

7

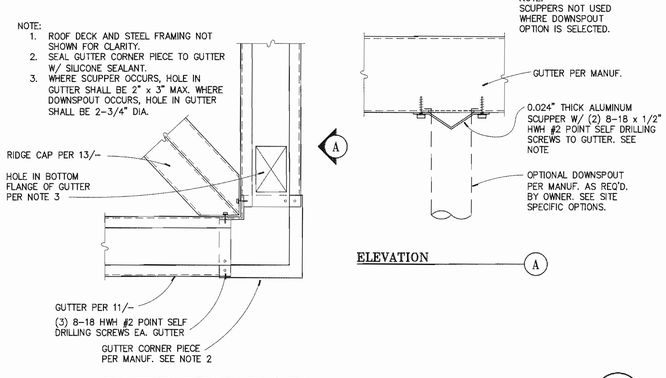


INTERLOCKING ROOF DECK PROFILE
3" = 1'-0"

8

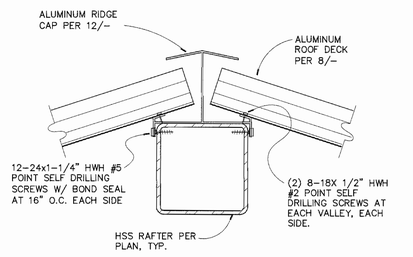
GUTTER SECTION AND GUTTER SPLICE DETAILS
3" = 1'-0"

9



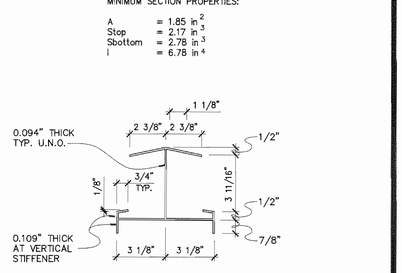
GUTTER DRAIN HOLES
3" = 1'-0"

10



ROOF DECK TO RAFTER CONNECTION
3" = 1'-0"

11



RIDGE CAP PROFILE
3" = 1'-0"

12

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REGISTERED PROFESSIONAL ENGINEER
ROGER R. HYYTINEN
No. 52132
EXP. 12-31-14
STRUCTURAL
STATE OF CALIFORNIA

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
02 113840
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SECTIONS AND DETAILS

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CHECKED: R.H.
DATE: 10/21/14
SCALE: AS NOTED
JOB NO.: 44-14
DRAWING NO.: NT30
SHEET: NT30.2