CONSTRUCTION DRAWINGS FOR
COLLEGE PARK HIGH SCHOOL
ATHLETIC FACILITY IMPROVEMENTS
201 VIKING DR.
PLEASANT HILL, CA 94523
MOUNT DIABLO UNIFIED SCHOOL DISTRICT
VERDE DESIGN, INC. PROJECT NO. 1209000-1209

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APPL 01-X
FILE XX-XX

AC X FLS X SS X
DATE

DSA PROJECT TRACKING NO:
XXXXX-XXX

GENERAL NOTES

1. PRIOR TO POTENTIAL QUALIFIER, THE GENERAL CONTRACTOR SHALL VISIT & INSPECT THE SITE & FAMILIARIZE THEMSELVES WITH EXISTING CONDITIONS AFFECTING THE NEW WORK. THE GENERAL CONTRACTOR SHALL NOT DISPUTE, COMPLAIN OR ASSERT THAT THERE IS ANY MISUNDERSTANDING IN REGARDS TO LOCATION, EXTENT, NATURE OR AMOUNT OF WORK TO BE PERFORMED UNDER THIS CONTRACT DUE TO THE CONTRACTOR'S FAILURE TO INSPECT THE SITE. CONTRACTOR SHALL NOTIFY OWNER'S REPRESENTATIVE OF ANY CONDITIONS, REQUIRING WORK, WHICH ARE NOT COVERED IN THE CONTRACT DOCUMENTS.
2. NO CONSTRUCTION SHALL COMMENCE WITHOUT THE OFFICIAL NOTICE TO PROCEED FROM THE OWNER.
3. THE GENERAL CONTRACTOR & SUBCONTRACTORS ARE RESPONSIBLE FOR LOCATING & VERIFYING ALL EXISTING UNDERGROUND UTILITIES IN ALL AREAS OF NEW WORK PRIOR TO COMMENCEMENT OF EXCAVATION. EXISTING UTILITIES SHOWN ON THE DRAWINGS ARE APPROXIMATE ROUTING LOCATIONS AS BEST DETERMINED FROM EXISTING DRAWINGS AND THE SCHOOL OWNER, BUT SHOULD NOT BE CONSTRUED TO REPRESENT ALL OF THE EXISTING UNDERGROUND UTILITIES. THE CONTRACTOR SHALL POTHOLE ALL EXISTING UTILITIES THAT MAY BE AFFECTED BY NEW FACILITIES IN THIS CONTRACT. VERIFY ACTUAL LOCATION AND DEPTH OF UTILITIES, AND REPORT POTENTIAL CONFLICTS TO THE OWNER REPRESENTATIVE PRIOR TO EXCAVATING FOR NEW FACILITIES.
4. CONTRACTOR SHALL TAKE ALL NECESSARY STEPS TO PROTECT ALL EXISTING UTILITIES WHETHER SHOWN OR NOT, IN THE CONTRACT DOCUMENTS. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGES TO EXISTING UTILITIES CAUSED BY ITS OPERATIONS.
5. THE CONTRACTOR SHALL PROTECT ALL EXISTING ITEMS WITHIN SITE IMPROVEMENTS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REPAIR ALL DAMAGED AREAS TO THEIR ORIGINAL CONDITION OR BETTER AT CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE OWNER REPRESENTATIVE.
6. DIMENSIONS AND LOCATIONS OF EXISTING FACILITIES ARE APPROXIMATE AND SHALL BE FIELD VERIFIED BY CONTRACTOR. ANY DISCREPANCIES SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE OWNER REPRESENTATIVE.
7. ALL WORK SHALL CONFORM TO THE LATEST EDITION OF THE UNIFORM BUILDING CODE, UNIFORM PLUMBING CODE, UNIFORM FIRE CODE AND ALL APPLICABLE STATE AND LOCAL CODES AND ORDINANCES, AS WELL AS ADAPTED STANDARDS.
8. ALL NOTES ARE FOR GENERAL REFERENCE IN CONJUNCTION WITH, AND AS A SUPPLEMENT TO, THE WRITTEN SPECIFICATIONS AND DETAILS ASSOCIATED WITH THE CONTRACT DOCUMENTS.
9. THIS DRAWING SET SHALL BE USED IN CONJUNCTION WITH THE CSI FORMAT SPECIFICATIONS PUBLISHED IN BOOK FORM. COMBINED, THEY ARE HEREIN REFERRED TO AS THE "CONTRACT DOCUMENTS".
10. DIMENSIONS ON WORKING DRAWINGS TAKE PRECEDENCE OVER MEASURED ELEMENTS.. CONTRACTOR SHALL NOT SCALE DRAWINGS.
11. ALL TYPICAL DETAILS SHALL APPLY UNLESS NOTED OTHERWISE.
12. CONTRACTOR SHALL PROVIDE ADEQUATE DUST CONTROL AND KEEP MUD AND DEBRIS OFF THE PUBLIC RIGHT-OF-WAY AT ALL TIMES.
13. ALL TRENCHES AND EXCAVATIONS SHALL BE CONSTRUCTED IN STRICT COMPLIANCE WITH THE APPLICABLE SECTIONS OF CALIFORNIA AND FEDERAL O.S.H.A. REQUIREMENTS AND OTHER APPLICABLE SAFETY ORDINANCES. CONTRACTOR SHALL BEAR FULL RESPONSIBILITY FOR TRENCH SHORING DESIGN AND INSTALLATION.
14. ANY ALTERATIONS OF EXISTING FACILITIES TO ACCOMMODATE THE INSTALLATION OF NEW WORK SHALL BE REVIEWED BY THE OWNER REPRESENTATIVE PRIOR TO COMMENCING WORK.
15. CONTRACTOR SHALL COORDINATE ALL WORK TO AVOID DISTURBING STUDENTS OR TEACHERS DURING SCHOOL HOURS. ANY DISRUPTION OF THE UTILITIES MUST BE COORDINATED AND APPROVED BY THE OWNER AND INSPECTOR OF RECORD PRIOR TO COMMENCING WORK.
16. ALL TEMPORARY WORK SHALL BE CONSIDERED A PART OF THIS CONTRACT AND NO EXTRA CHARGES WILL BE ALLOWED. THIS SHALL INCLUDE MINOR ITEMS OF MATERIAL OR EQUIPMENT NECESSARY TO MEET THE REQUIREMENTS AND INTENT OF THE PROJECT.
17. THE PLANS AND SPECIFICATIONS DO NOT UNDERTAKE TO SHOW OR LIST EVERY ITEM TO BE PROVIDED, BUT RATHER TO DEFINE THE REQUIREMENTS FOR A FULL AND WORKING SYSTEM FROM THE STANDPOINT OF THE END USER. FOR THIS REASON, WHEN AN ITEM NOT SHOWN OR LISTED IS CLEARLY NECESSARY FOR PROPER CONTROL/OPERATION OF EQUIPMENT WHICH IS SHOWN OR LISTED, THE CONTRACTOR SHALL PROVIDE AN ITEM WHICH WILL ALLOW THE SYSTEM TO FUNCTION PROPERLY AT NO INCREASE IN PRICE.
18. ALL CONTRACTORS SHALL REMOVE TRASH AND DEBRIS STEMMING FROM THEIR WORK ON A DAILY BASIS. PROJECT SITE SHALL BE MAINTAINED IN A CLEAN AND ORDERLY CONDITION.
19. THE DETAILS REFLECT THE DESIGN INTENT FOR TYPICAL CONDITIONS. THE CONTRACTOR SHALL VERIFY ALL FIELD CONDITIONS AND SHALL INCLUDE, IN HIS SCOPE, THE COST FOR COMPLETE FINISHED INSTALLATIONS, INCLUDING ANOMALIES, OF ALL TRADES.
20. NO WORK SHALL COMMENCE WITH UNAPPROVED MATERIALS. ANY WORK DONE WITH UNAPPROVED MATERIALS AND EQUIPMENT IS AT THE CONTRACTOR'S RISK AND IS SUBJECT TO REJECTION AND REPLACEMENT. SEE SPECIFICATIONS FOR SUBMITTAL AND SUBSTITUTION REQUIREMENTS.
21. CONSTRUCTION MATERIALS STORED ON THE SITE SHALL BE PROPERLY STACKED AND PROTECTED SO AS TO PREVENT DAMAGE OR DETERIORATION UNTIL USED. FAILURE IN THIS REGARD MAY BE CAUSE FOR REJECTION OF MATERIAL AND/OR WORK.
22. ALL EQUIPMENT SHALL BE FABRICATED FROM FIELD VERIFIED DIMENSIONS AND APPROVED SHOP DRAWINGS. COORDINATE MECHANICAL, PLUMBING AND ELECTRICAL EQUIPMENT.
23. CONTRACTOR SHALL PERFORM THEIR CONSTRUCTION AND OPERATIONS IN A MANNER WHICH WILL NOT ALLOW HARMFUL POLLUTANTS TO ENTER THE STORM DRAIN SYSTEM. TO ENSURE COMPLIANCE, THE CONTRACTOR SHALL IMPLEMENT THE APPROPRIATE BEST MANAGEMENT PRACTICE (BMP) AS OUTLINED IN THE BROCHURES ENTITLED "BEST MANAGEMENT PRACTICE FOR THE CONSTRUCTION INDUSTRY" ISSUED BY THE CONTRA COSTA NONPOINT SOURCE POLLUTION CONTROL PROGRAM, TO SUIT THE CONSTRUCTION SITE AND JOB CONDITION. THE CONTRACTOR SHALL PRESENT HIS PROPOSED BMP AT THE PRECONSTRUCTION MEETING FOR DISCUSSION AND APPROVAL.
24. CONTRACTOR SHALL PROVIDE TEMPORARY CONSTRUCTION FENCING PER CONTRACT DOCUMENTS TO SERVE LIMIT OF WORK AREAS. FENCING MAY BE ADJUSTED DURING CONSTRUCTION BASED ON CONSTRUCTION SEQUENCE OR OWNER REPRESENTATIVE'S DIRECTION.
25. OVERNIGHT PARKING OF CONSTRUCTION EQUIPMENT IN THE STREET RIGHT-OF-WAY SHALL NOT BE PERMITTED.
26. COMPLIANCE WITH CFC CHAPTER 14, FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION AND CBC CHAPTER 33, SAFETY DURING CONSTRUCTION WILL BE ENFORCED.

APPLICABLE CODES

1. 2013 CBC CHAPTER 35: PROVIDE ALL THE APPLICABLE/ADOPTED STANDARDS. WHERE A PARTICULAR STANDARD IS REFERENCED IN THE CODE BUT DOES NOT APPEAR AS AN ADOPTED STANDARD IT MAY STILL BE USED. APPLY ONLY THE PORTION OF THE STANDARD THAT IS APPLICABLE TO THE CODE SECTION WHERE THE STANDARD IS REFERENCED, NOT THE ENTIRE STANDARD.

   2013 BUILDING STANDARDS ADMINISTRATIVE CODE, PART 1, TITLE 24 C.C.R.
   2013 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 C.C.R.
   (2012 INTERNATIONAL BUILDING CODE VOLUMES 1-2 AND 2013 CALIFORNIA AMENDMENTS)
   CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 C.C.R.
   (2014 NATIONAL ELECTRICAL CODE AND 2013 CALIFORNIA AMENDMENTS)
   CALIFORNIA MECHANICAL CODE (CMC) PART 4, TITLE 24 C.C.R.
   (2012 UNIFORM MECHANICAL CODE AND 2013CALIFORNIA AMENDMENTS)
   CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 C.C.R.
   (2012 UNIFORM PLUMBING CODE AND 2013 CALIFORNIA AMENDMENTS)
   2013 CALIFORNIA ENERGY CODE, PART 6, TITLE 24 C.C.R. EFFECTIVE JULY 1, 2014, OR
   2008 ENERGY EFFICIENCY STDS. (2010 ENERGY CODE) EFFECTIVE JANUARY 1, 2014.
   2013 ELEVATOR SAFETY CONSTRUCTION CODE, PART 7, TITLE 24
   2013 CALIFORNIA FIRE CODE, PART 9, TITLE 24 C.C.R.
   (2012 INTERNATIONAL FIRE CODE AND 2013 CALIFORNIA AMENDMENTS)
   CALIFORNIA EXISTING BUILDING CODE, PART 10, TITLE 24 C.C.R.
   (2012 INTERNATIONAL EXISTING BUILDING CODE AND 2013 CALIFORNIA AMENDMENTS)
   2013 CALIFORNIA "GREEN" BUILDING REQUIREMENTS OR CAL GREEN, PART 11, TITLE 24 C.C.R. EFFECTIVE JANUARY 1, 2014.
   2013 CALIFORNIA REFERENCED STANDARDS, PART 12, TITLE 24 C.C.R
   2013 TITLE 19 C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS.

NFPA 13	AUTOMATIC SPRINKLER SYSTEMS	2013 EDITION
NFPA 14	STANDPIPE SYSTEMS	2013 EDITION
NFPA 17	DRY CHEMICAL EXTINGUISHING SYSTEMS	2013 EDITION
NFPA 17A	WET CHEMICAL SYSTEMS	2013 EDITION
NFPA 20	STATIONARY PUMPS	2013 EDITION
NFPA 24	PRIVATE MAINS	2013 EDITION
NFPA 72	NATIONAL FIRE ALARM CODE (CALIFORNIA AMENDED) (NOTE SEE UL STANDARD 1971 FOR "VISUAL DEVICES)	2013 EDITION
NFPA 253	CRITICAL RADIANT FLUX OF FLOOR COVERING SYSTEMS	2011 EDITION
NFPA 2001	CLEAN AGENT FIRE EXTINGUISHING SYSTEMS	2012 EDITION
ASME 17.1	ELEVATOR STANDARD	2013 EDITION

   REFERENCE CODE SECTIONS FOR APPLICABLE STANDARDS - 2013 CBC CHAPTER 35 AND 2013 CFC.

2. "THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT WORK OF THE ALTERATION, REHABILITATION OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS. SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NONCOMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS, A CHANGE ORDER, OR A SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY THE DISTRICT REPRESENTATIVE BEFORE PROCEEDING WITH THE WORK."
3. THE FOLLOWING INFORMATION FROM PART ONE, TITLE 24 CCR SHALL BE INCLUDED IN THE CONTRACT DOCUMENTS:
   A. ADDENDA AND CHANGES AS PER SECTION 4-338
   B. INSPECTOR APPROVED BY DSA
   C. INSPECTOR AND CONTINUOUS INSPECTION OF WORK PER SECTION 4-333(b) AND 4-342
   D. TESTS AND TESTING LABORATORY PER SECTION 4-335 (OWNER SHALL PAY THE TESTING LABORATORY)
   E. SPECIAL INSPECTION PER SECTION 4-333 (c)
   F. CONTRACTOR SHALL SUBMIT VERIFIED REPORT PER SECTION 4-336 AND 4-343 (c)
   G. ADMINISTRATION OF CONSTRUCTION PER PART I, TITLE 24, C.C.R.,
      1) DUTIES OF ARCHITECT, STRUCTURAL ENGINEER, OR PROFESSIONAL ENGINEER PER SECTION 4-333 (a) and 4-341
      2) DUTIES OF CONTRACTOR PER SECTION 4-336
      3) VERIFIED REPORTS PER SECTION 4-336
   H. A COPY OF PART 1 AND 2 OF TITLE 24 SHALL BE KEPT AND AVAILABLE IN THE FIELD DURING CONSTRUCTION
   I. DSA SHALL BE NOTIFIED ON START OF CONSTRUCTION PER SECTION 4-331
   J. SUPERVISION BY DSA PER SECTION 4-343
   K. DSA IS NOT SUBJECT TO ARBITRATION

ABBREVIATIONS

ACS	ACCESSIBLE	FG	FINISH GRADE OF PAVING	SD	STORM DRAIN
AD	AREA DRAIN	FOC	FACE OF CURB	SDMH	STORM DRAIN MANHOLE
ASLA	AMERICAN SOCIETY OF LANDSCAPE ARCHITECTS	FS	FINISH SURFACE OF PAVEMENT	SS	SANITARY SEWER
BC	BOTTOM OF CURB	HP	HIGH POINT	SSMH	SANITARY SEWER MANHOLE
BOC	BEGINNING OF CURVE	INV	INVERT	STM	STREET MONUMENT
CB	CATCH BASIN	IRG V	IRRIGATION VALVE	TC	TOP OF CURB
CL	CENTER LINE	LF	LINEAL FEET	TFC	TOP OF FACE OF CURB
CONC	CONCRETE	LP	LOW POINT	TH	THRESHOLD
CO	CLEAN OUT	MH	MANHOLE	TYP	TYPICAL
COTG	CLEAN OUT TO GRADE	MIN	MINIMUM	UTB	UTILITY BOX
CP	SURVEY CONTROL POINT	PL	PROPERTY LINE	UTL	UTILITY
DI	DRAIN INLET	PVC	POLYVINYL CHLORIDE	WM	WATER METER
(E)	EXISTING	R	RADIUS	WV	WATER VALVE
ELC B	ELECTRIC BOX	RIM	ELEVATION OF DRAINAGE		
EOC	END OF CURVE	S	SLOPE		

PREPARED BY

REGISTERED PROFESSIONAL ENGINEER — DEVIN CONWAY — No. C-56494 — Signature — EXPIRATION DATE: — STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER — TIM D. HYDE — No. S3260 — EXP. 3/31/15 — STRUCTURAL — STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER — JEFFRY GOSAL — No. E-30477 — EXP. 6/30/15 — ELECTRICAL — STATE OF CALIFORNIA

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
2455 The Alameda
Santa Clara, CA 95050
tel: 408.985.7200
fax: 408.985.7260
www.VerdeDesignInc.com

akh
AHEARN, KNOX & HYDE, INC.
Structural Engineers
1505 MERIDIAN AVE, SUITE B
SAN JOSE, CALIFORNIA 95125
PHONE 408.978.1970
AKH JOB NO. MDUSD

ALL IDEAS, DESIGNS, ARRANGEMENTS, AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY AND THE PROPERTY OF VERDE DESIGN, INC. AND WERE CREATED, EVOLVED, AND DEVELOPED FOR USE ON AND IN CONNECTION WITH THE SPECIFIED PROJECT. NONE OF SUCH IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL BE USED, REPRODUCED, OR PUBLISHED BY ANY METHOD, IN WHOLE OR IN PART, OR DISCLOSED TO ANY PERSON, FIRM, OR CORPORATION FOR ANY PURPOSE WHATSOEVER WITHOUT WRITTEN PERMISSION OF VERDE DESIGN, INC.

SALAS O'BRIEN
ENGINEERS, INC.
305 South 11th Street
San Jose, CA 95112-2216
(408) 282-1500
FAX: (408) 297-2995
www.salasobrien.com

CONTACT INFORMATION

OWNER	CONTACT NAME	PHONE #
MOUNT DIABLO UNIFIED SCHOOL DISTRICT	TIMOTHY M. CODY	(925) 682-8000 x85615
LANDSCAPE ARCHITECT/CIVIL ENGINEER		
VERDE DESIGN INC.	DEVIN CONWAY	(408) 850-3420
	TONY WOOD	(916) 996-7751
ELECTRICAL ENGINEER		
SALAS O'BRIEN ENGINEERS, INC.	JEFFRY GOSAL	(408) 282-1500
STRUCTURAL ENGINEER		
AHERN, KNOX & HYDE, INC.	TIM HYDE	(408) 978-1970

SCOPE OF WORK

DEMOLITION OF EXISTING HARDSCAPE, FENCE, AND TICKET SHED. INSTALLATION OF NEW ASPHALT WITH REDWOOD HEADER, ASPHALT OVERLAY, CONCRETE FLATWORK AND CURB, MODULAR RESTROOM / CONCESSION / TICKET BUILDING, AND SPORTS FIELD LIGHTING.

ALTERNATE 'A': FURNISH ALL LABOR, MATERIALS, EQUIPMENT, FACILITIES, TRANSPORTATION AND SERVICES TO COMPLETE ALL WORK RELATING TO THE INSTALLATION OF BITUMINOUS WALK WITH REDWOOD HEADER AND CONCRETE PAD ON EAST SIDE OF TRACK, SOUTH OF NEW MODULAR BUILDING AS SHOWN ON DRAWING SHEETS AND DESCRIBED BY OTHER APPLICABLE PORTIONS OF THE CONTRACT DOCUMENTS.

ALTERNATE 'B': FURNISH ALL LABOR, MATERIALS, EQUIPMENT, FACILITIES, TRANSPORTATION AND SERVICES TO COMPLETE ALL WORK RELATING TO THE INSTALLATION OF BITUMINOUS WALK WITH REDWOOD HEADER ALONG NORTH RADIUS OF (E) TRACK ADJACENT TO (E) FENCE LINE TO (E) WALKWAY AT WEST BLEACHERS AS SHOWN ON DRAWING SHEETS AND DESCRIBED BY OTHER APPLICABLE PORTIONS OF THE CONTRACT DOCUMENTS.

ALTERNATE 'C': FURNISH ALL LABOR, MATERIALS, EQUIPMENT, FACILITIES, TRANSPORTATION AND SERVICES TO COMPLETE ALL WORK RELATING TO THE INSTALLATION OF SOUND SYSTEM AND SOUND WALL AS SHOWN ON DRAWING SHEETS AND DESCRIBED BY OTHER APPLICABLE PORTIONS OF THE CONTRACT DOCUMENTS.

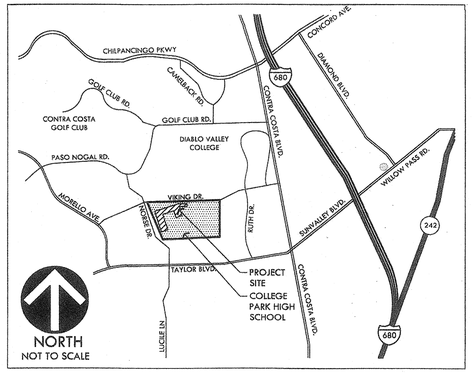
ALTERNATE 'D': FURNISH ALL LABOR, MATERIALS, EQUIPMENT, FACILITIES, TRANSPORTATION AND SERVICES TO COMPLETE ALL WORK RELATING TO THE INSTALLATION OF BACKLIGHTING FOR THE (e) BASEBALL FIELD AS SHOWN ON DRAWING SHEETS AND DESCRIBED BY OTHER APPLICABLE PORTIONS OF THE CONTRACT DOCUMENTS.

ALTERNATE 'E': FURNISH ALL LABOR, MATERIALS, EQUIPMENT, FACILITIES, TRANSPORTATION AND SERVICES TO COMPLETE ALL WORK RELATING TO THE INSTALLATION OF ORNAMENTAL FENCING AS SHOWN ON DRAWING SHEETS AND DESCRIBED BY OTHER APPLICABLE PORTIONS OF THE CONTRACT DOCUMENTS.

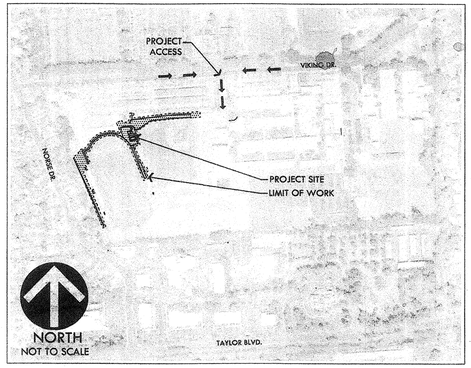
SHEET INDEX — SHEET NO.

COVER SHEET	C0.0
ACCESSIBILITY PLAN	A0.1
ACCESSIBILITY PLAN	A0.2
FIRE, LIFE AND SAFETY PLAN	A1.0
EXISTING CONDITIONS PLAN	L1.0
DEMOLITION PLAN	L2.0
GRADING PLAN	L3.0
DRAINAGE AND UTILITY PLAN	L4.0
LAYOUT PLAN	L5.0
MATERIAL AND DETAIL REFERENCE PLAN	L6.0
DRAINAGE AND UTILITIES DETAILS	D1.0
CONSTRUCTION DETAILS	D2.0
CONSTRUCTION DETAILS	D3.0
ELECTRICAL	
ELECTRICAL GENERAL NOTES, SYMBOLS AND ABBREVIATIONS	ES-0
ELECTRICAL SITE PLAN	ES-1
ELECTRICAL PARTIAL SITE PLAN	ES-2
ELECTRICAL PARTIAL SITE PLAN	ES-3
ELECTRICAL DETAILS	ES-4
ELECTRICAL DETAILS	ES-5
ELECTRICAL DETAILS	ES-6
ELECTRICAL DETAILS	ES-7
ELECTRICAL SOUND SYSTEM DETAILS	ES-8
ELECTRICAL SINGLE LINE DIAGRAM	ES-9
SPORTS FIELD LIGHT - OPTION MUSCO	
DETAILS	MD1
DETAILS	MD2
DETAILS	MD3
POLE DETAILS	MS1
NOTES, FOUNDATION DETAILS	MT1
SPORTS FIELD LIGHT - OPTION QUALITE	
LIGHTING LAYOUT	SL0
POLE F1 DETAILS	SL1
POLE F2 DETAILS	SL2
POLE F3 DETAILS	SL3
POLE F4 DETAILS	SL4
POLE F5 DETAILS	SL5
POLE F6 DETAILS	SL6
BUILDING	
COVER SHEET, BUILDING CODES & C&C DATA, SHEET INDEX	A0
FLOOR PLAN, MATERIAL SPECIFICATIONS, GENERAL NOTES	A1
INTERIOR ELEVATIONS - DETAILS	A1.1
BI-PITCHED ROOF PLAN - EXTERIOR ELEVATIONS	A1.2
REFLECTED CEILING PLANS, HVAC WALL ATTACH, DETAILS, HVAC SPECS	A2
ELECTRICAL POWER PLAN, SIGNAL PLAN, LIGHTING PLAN, DETAILS, ELECTRICAL NOTES	A3
BI-PITCHED ROOF SECTIONS AND DETAILS (2X6 EXTERIOR WALLS)	A4.1
INTERIOR WALL CONNECTION DETAILS	A4H
MISCELLANEOUS DETAILS	A5
CONCRETE FOUNDATION PLAN, FOOTING DETAILS, NOTES	S1C
ADJUSTABLE FOUNDATION PLAN & ALTERNATE DETAILS	S1C.1
MISCELLANEOUS FOOTING DETAILS	S1.C.2
BI-PITCH ROOF, CEILING, FLOOR FRAMING PLANS, STRUCTURAL STEEL PROPERTIES, NOTES	S2
BI-PITCHED ROOF BUILDING SECTION, WALL FRAMING ELEVATIONS, END FRAME ELEVATION, NAILING SCHEDULE	S3
STRUCTURAL CONNECTION DETAILS	S4
ALTERNATE STRUCTURAL DETAILS	S4.1
ALTERNATE STRUCTURAL DETAILS	S4.2
10'X10' TICKET BOOTH	
BI-PITCH ROOF, CEILING, FLOOR FRAMING PLANS, STRUCTURAL STEEL PROPERTIES, NOTES	TS2
BI-PITCHED ROOF BUILDING SECTION, WALL FRAMING ELEVATIONS, END FRAME ELEVATION, NAILING SCHEDULE	TS3
STRUCTURAL CONNECTION DETAILS	TS4
ALTERNATE STRUCTURAL DETAILS	TS4.1
STRUCTURAL	
GENERAL STRUCTURAL NOTES	S1.1
SOUND WALL ELEVATIONS & DETAILS	S2.1

VICINITY AND SITE MAP



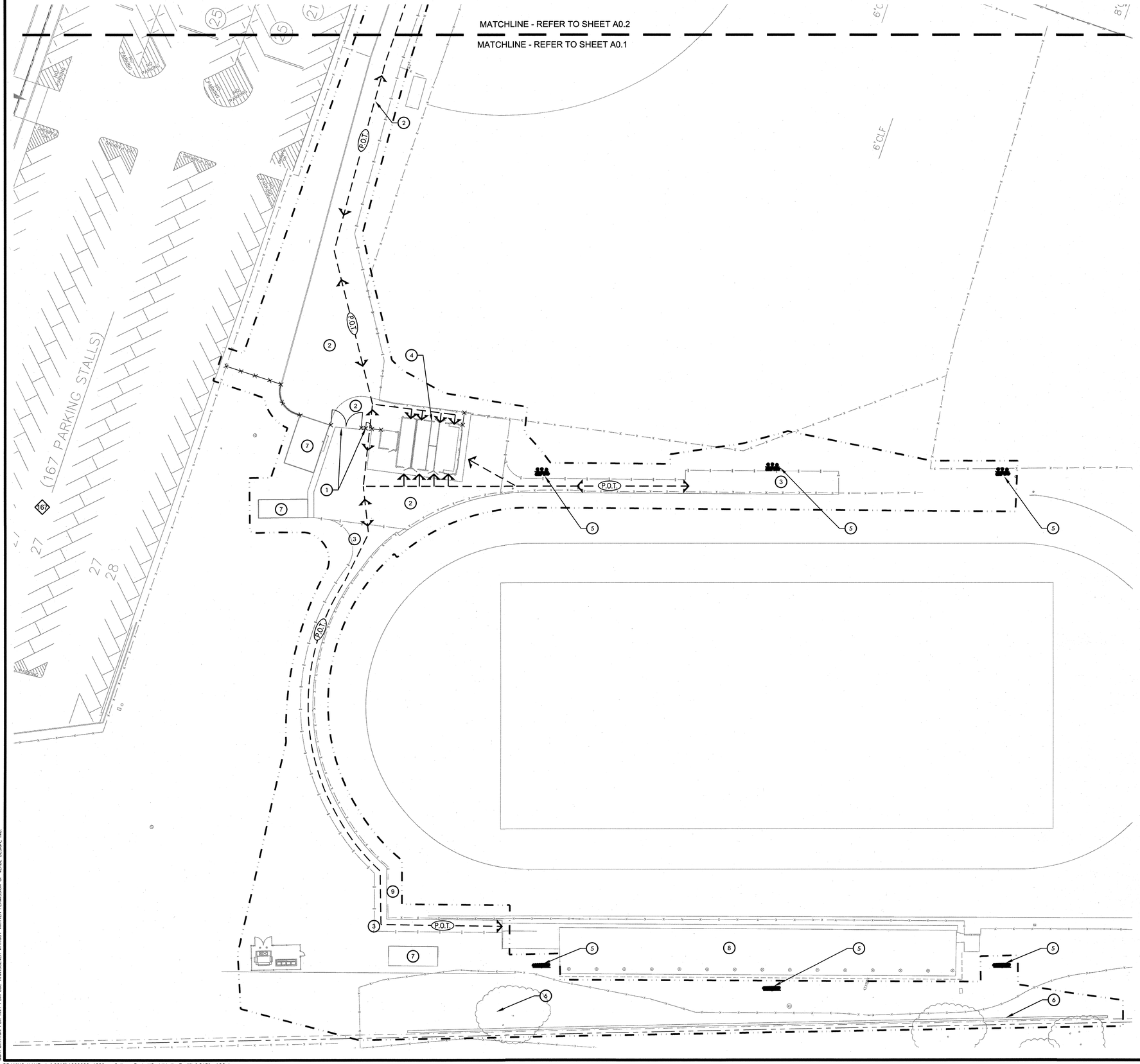
VICINITY MAP

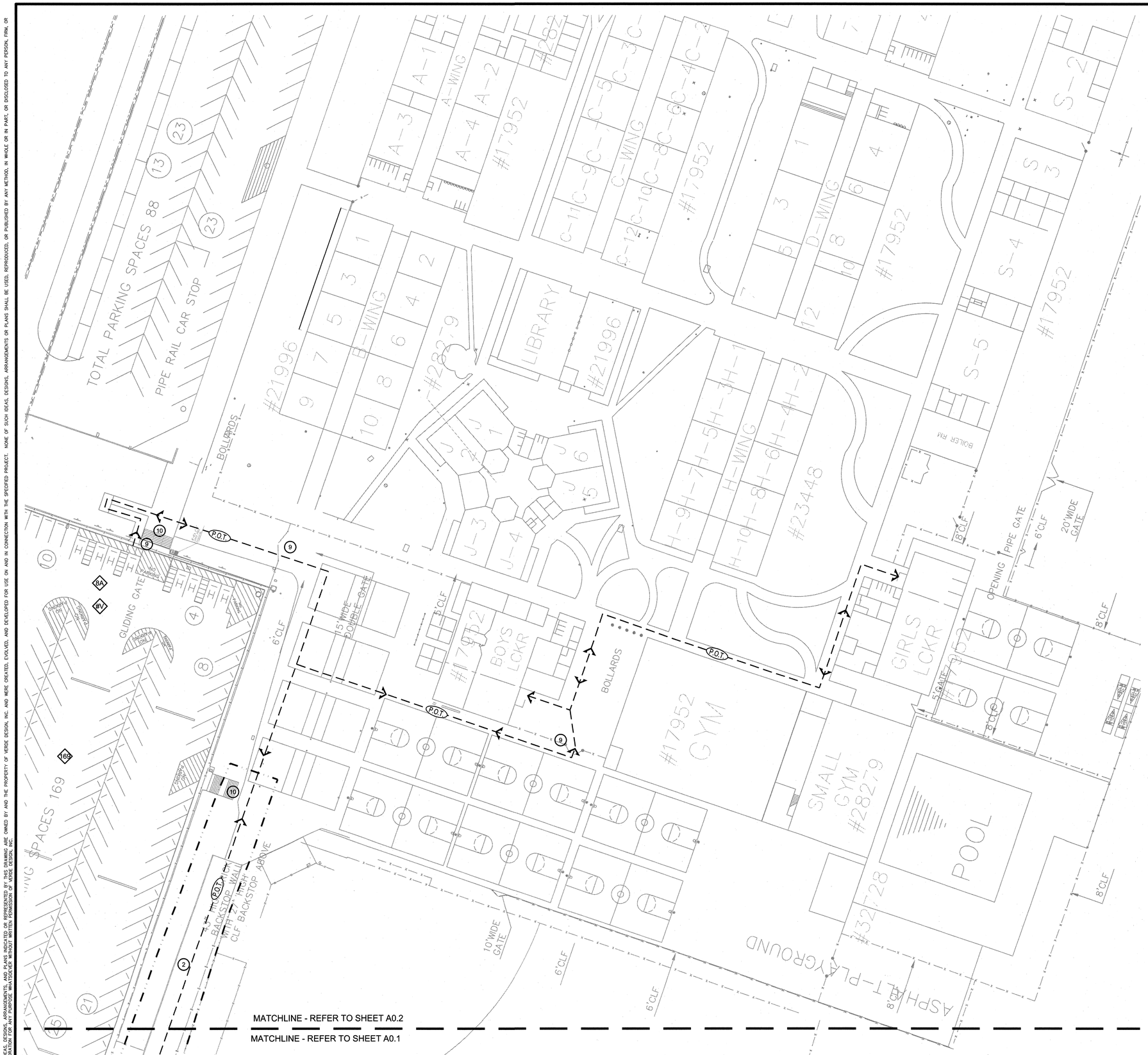


SITE MAP

COLLEGE PARK HIGH SCHOOL - ATHLETIC FACILITY IMPROVEMENTS

DSA SUBMITTAL - 10/17/14


MATCHLINE - REFER TO SHEET A0.2
MATCHLINE - REFER TO SHEET A0.1
(167 PARKING STALLS)
P.O.T.
P.O.T.
P.O.T.
P.O.T.
P.O.T.
6'CLF
6'CLF
8'CLF
ACCESSIBLE PARKING
ACCESSIBLE PARKING
ACCESSIBLE PARKING



GENERAL SHEET NOTES

A. ACCESSIBLE PATH OF TRAVEL AS INDICATED ON PLAN IS A BARRIER-FREE ACCESS ROUTE WITHOUT ANY ABRUPT LEVEL CHANGES EXCEEDING 1/2" BEVELED AT 1:2 MAXIMUM SLOPE, OR VERTICAL LEVEL CHANGES NOT EXCEEDING 1/4" MAXIMUM, AND IS AT LEAST 48" WIDE. SURFACE IS SLIP-RESISTANT, STABLE, FIRM, AND SMOOTH. CROSS SLOPE DOES NOT EXCEED 2%, AND SLOPE IN THE DIRECTION OF TRAVEL IS LESS THAN 5% UNLESS OTHERWISE NOTED. ACCESSIBLE PATH OF TRAVEL SHALL BE MAINTAINED FREE OF OVERHANGING OBSTRUCTIONS TO 80" MINIMUM AND FROM OBJECTS PROTRUDING MORE THAN 4" FROM WALL BETWEEN 27" AND 80" AFF. ARCHITECT SHALL VERIFY THAT THERE ARE NO BARRIERS IN THE PATH OF TRAVEL.

B. CONTRACTOR SHALL VERIFY THAT ALL BARRIERS IN THE PATH OF TRAVEL HAVE BEEN REMOVED, OR WILL BE REMOVED, UNDER THIS PROJECT, AND THAT THE PATH OF TRAVEL COMPLIES WITH CBC 11338.

C. THE INTENT OF THE DRAWINGS AND SPECIFICATIONS IS TO MODIFY THE FACILITY FOR ACCESSIBILITY IN ACCORDANCE WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS. SHOULD ANY CONDITIONS DEVELOP THAT ARE NOT COVERED BY THE CONTRACT DOCUMENTS SUCH THAT THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, A CHANGE ORDER DETAILING AND SPECIFYING THE WORK REQUIRED TO BRING CONDITIONS INTO COMPLIANCE WITH TITLE 24 SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE WORK.

D. ALL EXISTING AND PROPOSED GATES SHALL HAVE BREAKAWAY LOCKS INSTALLED.

NOTE: THIS DRAWING IS FOR AGENCY APPROVAL ONLY - NOT FOR CONSTRUCTION.

ACCESSIBILITY LEGEND

SYM	DESCRIPTION
	PROJECT LIMIT OF WORK
P.O.T.	ACCESSIBLE PATH OF TRAVEL
	PEDESTRIAN ACCESS
#	EXISTING NUMBER OF PARKING STALLS
#A	EXISTING NUMBER OF ACCESSIBLE PARKING STALLS
#V	EXISTING NUMBER OF ACCESSIBLE VAN PARKING STALLS
1	PROPOSED FENCING AND GATES
2	PROPOSED HARDSCAPE
3	PROPOSED ALTERNATE HARDSCAPE
4	PROPOSED ACCESSIBLE TICKET BOOTH, BOYS AND GIRLS RESTROOMS AND CONCESSION BUILDING
5	PROPOSED STADIUM LIGHTING
6	PROPOSED ALTERNATE SOUND WALL
7	EXISTING STORAGE
8	EXISTING BLEACHERS
9	EXISTING GATE
10	EXISTING STAIRS

NORTH

0' 15' 30' 60' 90'

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
2455 The Alameda
Santa Clara, CA 95050
tel: 408.985.7200
fax: 408.985.7260
www.VerdeDesigninc.com

STAMP

REGISTERED PROFESSIONAL ENGINEER
DEVIN CONWAY
No. C-56494
Signature
EXPIRATION DATE:
STATE OF CALIFORNIA

CONSULTANT

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APPL 01-XXXXXX
FILE XX-XX
AC _____ FLS _____ SS _____
DATE _____
DSA PROJECT TRACKING NO:
XXXX-XX

SHEET TITLE
ACCESSIBILITY PLAN

PROJECT NAME
COLLEGE PARK HIGH SCHOOL ATHLETIC FACILITY IMPROVEMENTS

PROJECT ADDRESS
201 VIKING DR
PLEASANT HILL, CA 94523

SUBMITTAL	DATE
50% DD SUBMITTAL	02/07/13
DSA SUBMITTAL	10/17/14

NO.	REVISIONS	DATE
1		
2		
3		
4		
5		
6		

DRAWN BY	CHECKED BY
HM	TW
DATE ISSUED	SCALE
10/17/14	1" = 30'-0"

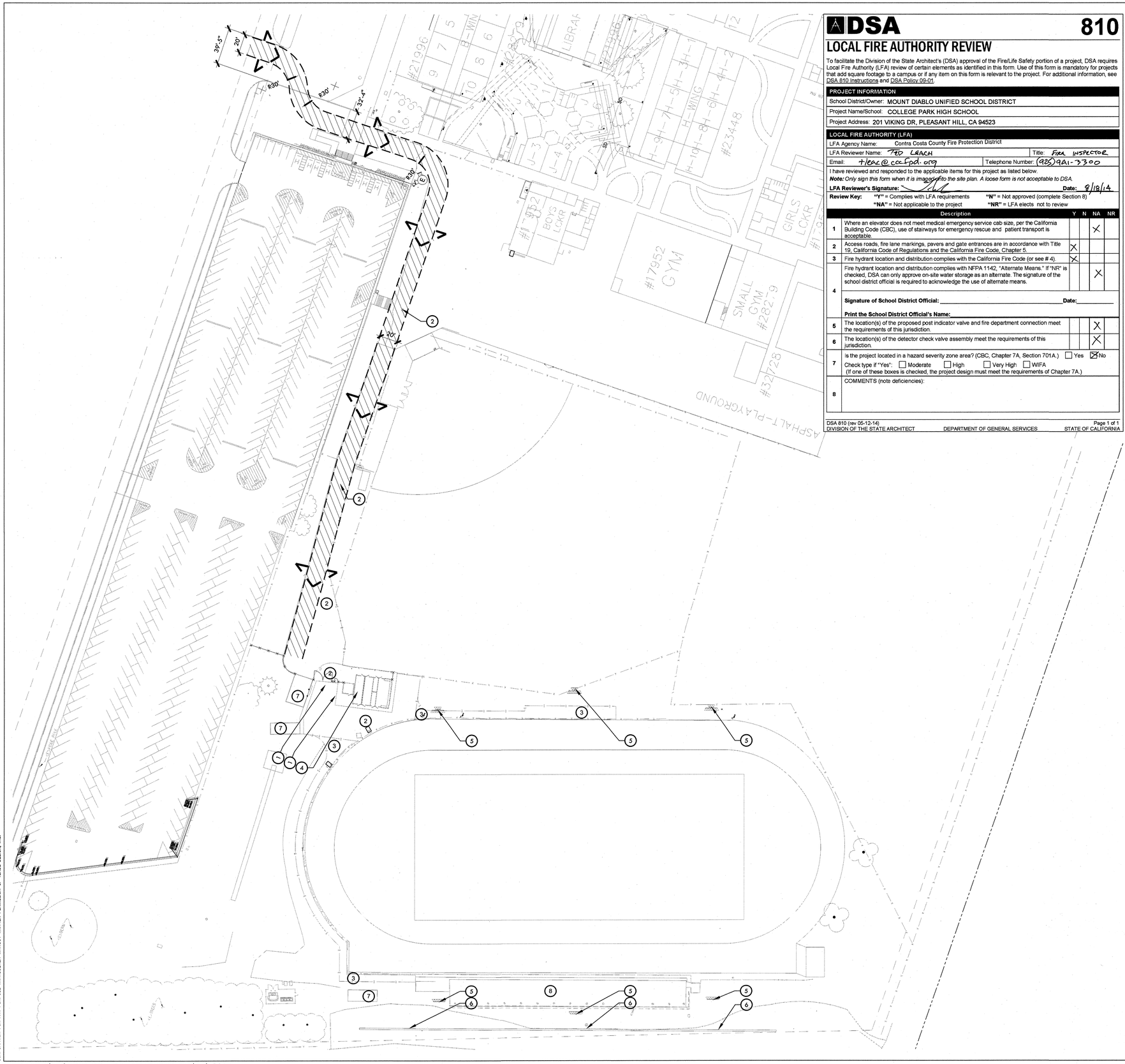
PROJ. NO.
1209000-1209

SHEET NO.
A0.2 # OF 44 SHEETS

ACCESSIBILITY PLAN

ALL IDEAS, DESIGNS, ARRANGEMENTS, AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY AND THE PROPERTY OF VERDE DESIGN, INC. AND WERE CREATED, EVOLVED, AND DEVELOPED FOR USE ON AND IN CONNECTION WITH THE SPECIFIED PROJECT. NONE OF SUCH IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL BE USED, REPRODUCED, OR PUBLISHED BY ANY METHOD, IN WHOLE OR IN PART, OR DISCLOSED TO ANY PERSON, FIRM, OR CORPORATION FOR ANY PURPOSE WHATSOEVER WITHOUT WRITTEN PERMISSION OF VERDE DESIGN, INC.

DRAWING NAME: L:\2012\1209000-1209 - College Park HS-Athletic Facility\CAD_ACC.dwg
PLOT DATE: 10-14-14 PLOTTED BY: station31



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:	MOUNT DIABLO UNIFIED SCHOOL DISTRICT
Project Name/School:	COLLEGE PARK HIGH SCHOOL
Project Address:	201 VIKING DR, PLEASANT HILL, CA 94523

LOCAL FIRE AUTHORITY (LFA)

LFA Agency Name:	Contra Costa County Fire Protection District		
LFA Reviewer Name:	TED LEACH	Title:	FIRE INSPECTOR
Email:	tleac@cccfpd.org	Telephone Number:	(925)941-3300

I have reviewed and responded to the applicable items for this project as listed below.
***Note:** Only sign this form when it is imaged into the site plan. A loose form is not acceptable to DSA.*

LFA Reviewer's Signature: _____ **Date:** 8/18/14

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. **Signature of School District Official:** _____ **Date:** _____ **Print the School District Official's Name:** _____			X	
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

GENERAL SHEET NOTES

A. ACCESSIBLE PATH OF TRAVEL AS INDICATED ON PLAN IS A BARRIER-FREE ACCESS ROUTE WITHOUT ANY ABRUPT LEVEL CHANGES EXCEEDING 1/2" BEVELED AT 1:2 MAXIMUM SLOPE, OR VERTICAL LEVEL CHANGES NOT EXCEEDING 1/4" MAXIMUM, AND IS AT LEAST 48" WIDE. SURFACE IS SLIP-RESISTANT, STABLE, FIRM, AND SMOOTH. CROSS SLOPE DOES NOT EXCEED 2%, AND SLOPE IN THE DIRECTION OF TRAVEL IS LESS THAN 5% UNLESS OTHERWISE NOTED. ACCESSIBLE PATH OF TRAVEL SHALL BE MAINTAINED FREE OF OVERHANGING OBSTRUCTIONS TO 80" MINIMUM AND FROM OBJECTS PROTRUDING MORE THAN 4" FROM WALL BETWEEN 27" AND 80" AFF. ARCHITECT SHALL VERIFY THAT THERE ARE NO BARRIERS IN THE PATH OF TRAVEL.

B. CONTRACTOR SHALL VERIFY THAT ALL BARRIERS IN THE PATH OF TRAVEL HAVE BEEN REMOVED, OR WILL BE REMOVED, UNDER THIS PROJECT, AND THAT THE PATH OF TRAVEL COMPLIES WITH CBC 1133B.

C. THE INTENT OF THE DRAWINGS AND SPECIFICATIONS IS TO MODIFY THE FACILITY FOR ACCESSIBILITY IN ACCORDANCE WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS. SHOULD ANY CONDITIONS DEVELOP THAT ARE NOT COVERED BY THE CONTRACT DOCUMENTS SUCH THAT THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, A CHANGE ORDER DETAILING AND SPECIFYING THE WORK REQUIRED TO BRING CONDITIONS INTO COMPLIANCE WITH TITLE 24 SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE WORK.

D. ALL EXISTING AND PROPOSED GATES SHALL HAVE BREAKAWAY LOCKS INSTALLED.

NOTE: THIS DRAWING IS FOR AGENCY APPROVAL ONLY - NOT FOR CONSTRUCTION.

ACCESSIBILITY LEGEND

SYM	DESCRIPTION
	PROJECT LIMIT OF WORK
P.O.T.	ACCESSIBLE PATH OF TRAVEL
	FIRE DEPARTMENT ACCESS - FIRE DEPARTMENT ACCESS IS 20' AND RATED 96,000 LBS
(E)	EXISTING FIRE HYDRANT
(N)	NEW FIRE HYDRANT
1	PROPOSED FENCING AND GATES
2	PROPOSED HARDSCAPE
3	PROPOSED ALTERNATE HARDSCAPE
4	PROPOSED ACCESSIBLE TICKET BOOTH, BOYS AND GIRLS RESTROOMS AND CONCESSION BUILDING
5	PROPOSED STADIUM LIGHTING
6	PROPOSED ALTERNATE SOUND WALL
7	EXISTING STORAGE
8	EXISTING BLEACHERS

NORTH
0' 25' 50' 100' 150'

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
2455 The Alameda
Santa Clara, CA 95050
tel: 408.985.7200
fax: 408.985.7260
www.VerdeDesignInc.com

STAMP

REGISTERED PROFESSIONAL ENGINEER
KEVIN COMBS
No. C-56494
Signature
EXPIRATION DATE: June 30, 2015
STATE OF CALIFORNIA

CONSULTANT

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APPL 01-XXXXXX
FILE XX-XX
AC _____ FLS _____ SS _____
DATE _____
DSA PROJECT TRACKING NO:
XXXX-XX

SHEET TITLE
FIRE, LIFE AND SAFETY PLAN

PROJECT NAME
COLLEGE PARK HIGH SCHOOL ATHLETIC FACILITY IMPROVEMENTS

PROJECT ADDRESS
201 VIKING DR
PLEASANT HILL, CA 94523

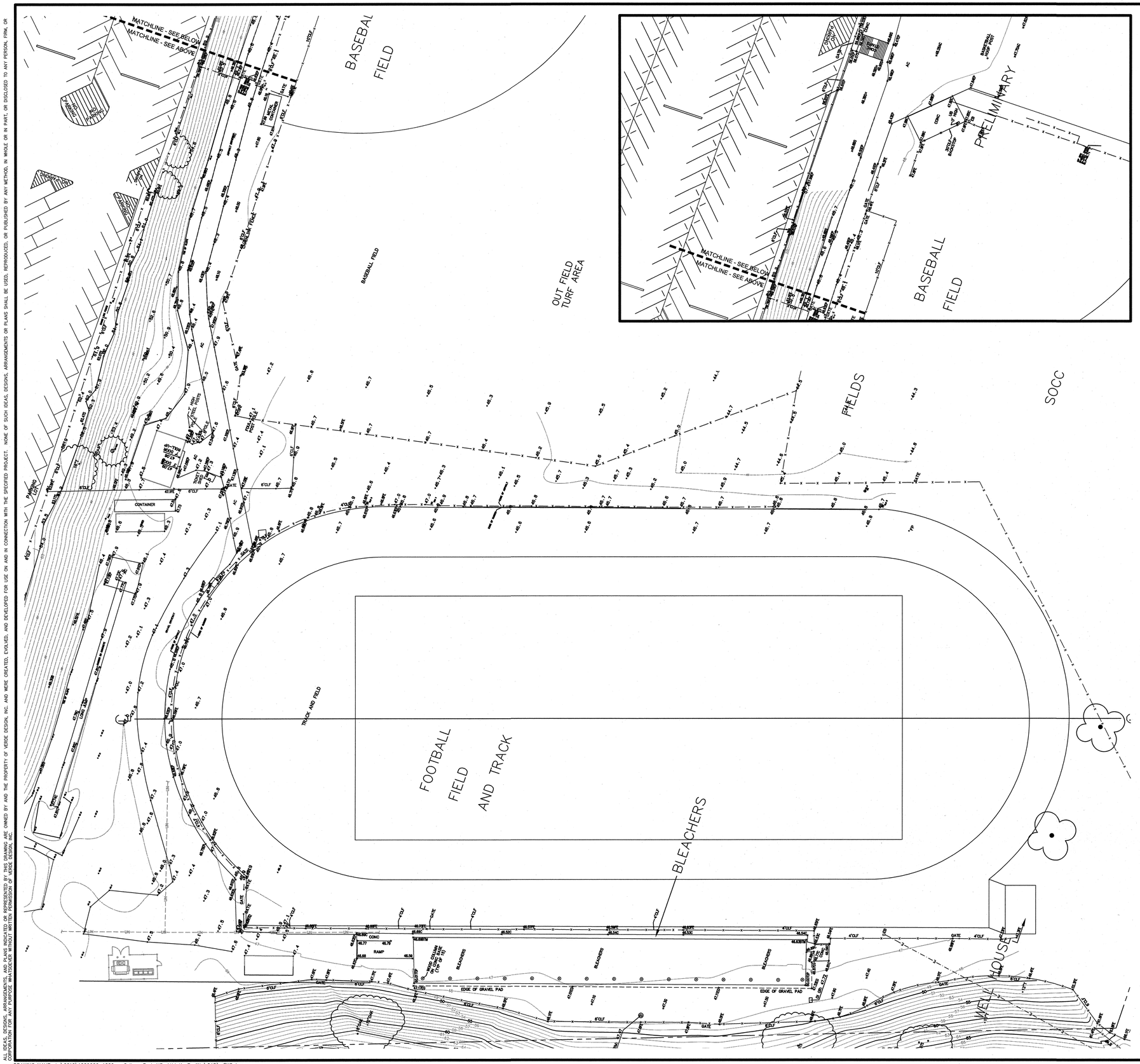
SUBMITTAL	DATE
50% DD SUBMITTAL	02/07/13
DSA SUBMITTAL	08/20/14

NO.	REVISIONS	DATE
1		
2		
3		
4		
5		
6		

DRAWN BY	CHECKED BY
HM	TW
DATE ISSUED: 08/20/14	SCALE: 1" = 50'-0"
PROJ. NO.: 1209000-1209	
SHEET NO.: A1.0 # OF 27 SHEETS	

ALL IDEAS, DESIGNS, ARRANGEMENTS, AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY AND THE PROPERTY OF VERDE DESIGN, INC. AND WERE CREATED, EVOLVED, AND DEVELOPED FOR USE ON AND IN CONNECTION WITH THE SPECIFIED PROJECT. NONE OF SUCH IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL BE USED, REPRODUCED, OR PUBLISHED BY ANY METHOD, IN WHOLE OR IN PART, OR DISCLOSED TO ANY PERSON, FIRM, OR CORPORATION FOR ANY PURPOSE WHATSOEVER WITHOUT WRITTEN PERMISSION OF VERDE DESIGN, INC.

DRAWING NAME: L:\2012\1209000-1209 - College Park HS-Athletic Facility\CAD_FLS.dwg
PLOT DATE: 08-18-14 PLOTTED BY: station21



EXISTING CONDITIONS NOTES

CONTRACTOR WILL BE RESPONSIBLE FOR VERIFICATION OF THE LOCATION OF UNDERGROUND UTILITIES IN THE FIELD.

FIELD WORK WAS COMPLETED BY JOSEPH WARD AND MATTHEW D. WARD OF WARD SURVEYING SANTA CRUZ, CALIFORNIA.

MEASUREMENTS: SHOWN IN FEET AND DECIMALS THEREOF (100.48). TREE DIMENSIONS, HOWEVER, ARE DIAMETERS IN INCHES AT CHEST HEIGHT (12- OAK= 12" OAK AT CHEST HEIGHT) OR AT THE BASE (368-OAK= 36" OAK AT ROOT BASE).

ONLY SELECTED TREES WERE LOCATED DURING THE COURSE OF THIS SURVEY. CAUTION SHOULD BE USED WHEN DESIGNING CLOSELY TO TREE TRUNKS - THERE ARE LIMITATIONS ON FIELD ACCURACY, DRAFTING ACCURACY, MEDIUM STRETCH, AS WELL AS THE "SPREAD" OR "LEANING" OF TREES. REQUEST ADDITIONAL TOPOGRAPHIC DETAIL WHERE CLOSE TOLERANCES ARE ANTICIPATED.

THE MAP SYMBOLS FOR TREES AND UTILITY STRUCTURES MAY NOT ACCURATELY REPRESENT THE SCALE SIZE OF THE FEATURE.

USERS OF THIS MAP ARE ADVISED TO CONTACT THE PREPARER TO BE SURE THERE ARE NO PERTINENT REVISIONS TO THE COPY OBTAINED. PLEASE NOTE THAT CERTIFIED ORIGINALS AND/OR PRINTS ARE "WET SIGNED". ANY ORIGINALS AND/OR PRINTS NOT "WET SIGNED" ARE NOT CERTIFIED.

DIGITAL COPIES OF THIS MAP ARE NOT CERTIFIED.

THIS MAP WAS PREPARED UNDER MY DIRECTION TO THE NORMAL STANDARDS OF CARE OF PROFESSIONAL LAND SURVEYORS IN THE STATE OF CALIFORNIA:

MATTHEW D. WARD P.L.S. 6235
LICENSE FEE RENEWAL DATE: 03-31-14

EXISTING CONDITIONS LEGEND

LEGEND

AD	AREA DRAIN
BKF V	BACKFLOW PREVENTER
CO	CLEAN-OUT
COMM V	COMMUNICATION VAULT
ELC B/V/LN	ELECTRIC BOX, VAULT OR LINE
FH	FIRE HYDRANT
GV	GAS VALVE
INV	INVERT
IRG V	IRRIGATION VALVE
MH	MANHOLE
QVC B	QVC BOX
RW	REDWOOD TREE
SSMH	SANITARY SEWER MANHOLE
SYC	SYCAMORE TREE
TEL V	TELEPHONE VAULT
UTA	UTILITY POLE ANCHOR
UTB/V	UTILITY BOX OR VAULT
UTP	UTILITY POLE
UTV	UTILITY VAULT
WF	WATER FOUNTAIN
WM	WATER METER
WV	WATER VALVE

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
2455 The Alameda
Santa Clara, CA 95050
tel: 408.985.7200
fax: 408.985.7260
www.VerdeDesignInc.com

STAMP

REGISTERED PROFESSIONAL ENGINEER
DEVYN CONWAY
No. C-56494
Signature
EXPIRATION DATE:
STATE OF CALIFORNIA

CONSULTANT

WARD SURVEYING
1729 SEABRIGHT AVE. SUITE A
SANTA CRUZ, CA. 95062
(831) 425-5005

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APPL 01-XXXXXX
FILE XX-XX

AC _____ FLS _____ SS _____
DATE _____

DSA PROJECT TRACKING NO:
XXXX-XX

SHEET TITLE

EXISTING CONDITIONS PLAN

PROJECT NAME

COLLEGE PARK HIGH SCHOOL ATHLETIC FACILITY IMPROVEMENTS

PROJECT ADDRESS

201 VIKING DR
PLEASANT HILL, CA
94523

SUBMITTAL	DATE
50% DD SUBMITTAL	02/07/13
DSA SUBMITTAL	10/17/14

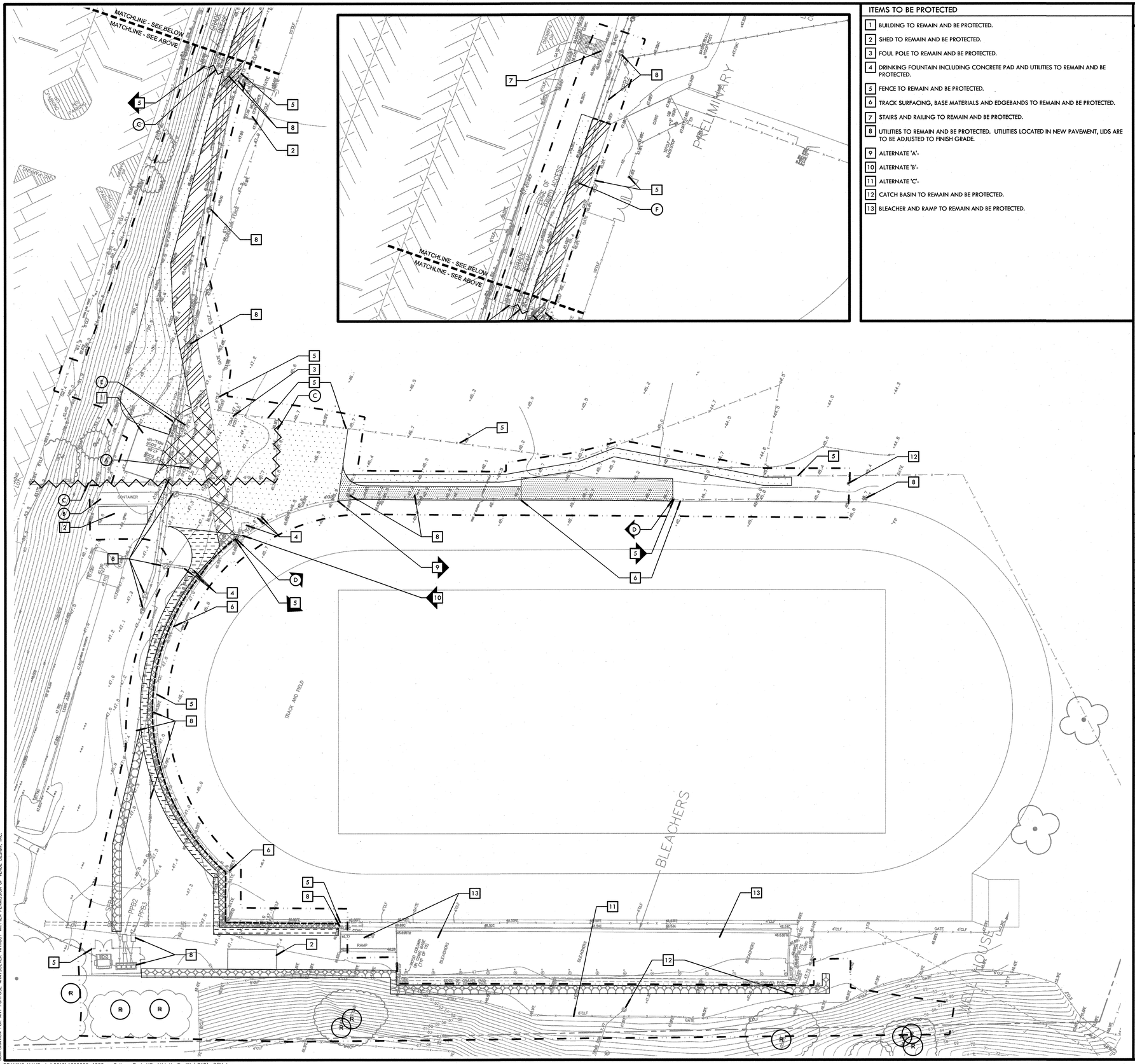
NO.	REVISIONS	DATE

DRAWN BY	CHECKED BY
HM	TW
DATE ISSUED: 10/17/14	SCALE: 1" = 30'-0"
PROJ. NO.: 1209000-1209	
SHEET NO.: L1.0 5 OF 44 SHEETS	

EXISTING CONDITIONS PLAN

ALL IDEAS, DESIGNS, ARRANGEMENTS, AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY AND THE PROPERTY OF VERDE DESIGN, INC. AND WERE CREATED, EVOLVED, AND DEVELOPED FOR USE ON AND IN CONNECTION WITH THE SPECIFIED PROJECT. NONE OF SUCH IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL BE USED, REPRODUCED, OR PUBLISHED BY ANY METHOD, IN WHOLE OR IN PART, OR DISCLOSED TO ANY PERSON, FIRM, OR CORPORATION FOR ANY PURPOSE WHATSOEVER WITHOUT WRITTEN PERMISSION OF VERDE DESIGN, INC.

DRAWING NAME: L:\2012\1209000-1209 - College Park HS-Athletic Facility\CAD_EXC.dwg
PLOT DATE: 10-14-14 PLOTTED BY: station31



ITEMS TO BE PROTECTED

1. BUILDING TO REMAIN AND BE PROTECTED.
2. SHED TO REMAIN AND BE PROTECTED.
3. FOUL POLE TO REMAIN AND BE PROTECTED.
4. DRINKING FOUNTAIN INCLUDING CONCRETE PAD AND UTILITIES TO REMAIN AND BE PROTECTED.
5. FENCE TO REMAIN AND BE PROTECTED.
6. TRACK SURFACING, BASE MATERIALS AND EDGEBANDS TO REMAIN AND BE PROTECTED.
7. STAIRS AND RAILING TO REMAIN AND BE PROTECTED.
8. UTILITIES TO REMAIN AND BE PROTECTED. UTILITIES LOCATED IN NEW PAVEMENT, LIDS ARE TO BE ADJUSTED TO FINISH GRADE.
9. ALTERNATE 'A'-
10. ALTERNATE 'B'-
11. ALTERNATE 'C'-
12. CATCH BASIN TO REMAIN AND BE PROTECTED.
13. BLEACHER AND RAMP TO REMAIN AND BE PROTECTED.

DEMOLITION NOTES

1. THE CONTRACTOR SHALL PERFORM ALL CLEARING, DEMOLITION, REMOVAL OF OBSTRUCTIONS AND SITE PREPARATIONS NECESSARY FOR THE PROPER EXECUTION OF ALL WORK CONTAINED IN THE CONTRACT DOCUMENTS.
2. CONTRACTOR SHALL VERIFY LOCATION OF ALL EXISTING UTILITIES AND PROVIDE THE REQUIRED COORDINATION FOR THEIR TEMPORARY DISCONNECTION, PROTECTION, REMOVAL AND/OR STORAGE AS MAY BE REQUIRED DURING CONSTRUCTION. CONTRACTOR SHALL COORDINATE WITH THE OWNER TO DETERMINE WHETHER TEMPORARY SERVICES ARE NECESSARY.
3. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO BID SUBMITTAL TO DETERMINE THE EXACT EXTENT AND DEPTH OF SITE DEMOLITION REQUIRED AND VERIFY COMPLIANCE WITH DRAWINGS. THE OWNER SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES.
4. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES, STRUCTURES AND SERVICES BEFORE COMMENCING WORK. THE LOCATIONS OF UTILITIES, STRUCTURES AND SERVICES SHOWN IN THE CONTRACT DOCUMENTS SHALL BE DEEMED TO BE APPROXIMATIONS ONLY. ALL DISCREPANCIES BETWEEN WHAT IS SHOWN AND THE ACTUAL FIELD CONDITIONS SHALL BE REPORTED TO THE OWNER'S REPRESENTATIVE. THE CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT (USA) AT (800) 227-2600 PRIOR TO ANY DEMOLITION OR EXCAVATION. UPON COMPLETION OF USA MARKING OPERATIONS, CONTRACTOR SHALL RECORD ALL UTILITY MARKINGS ON A SEPARATE SET OF DRAWINGS. THIS SET SHALL BE KEPT ON-SITE FOR REFERENCE FOR DURATION OF CONTRACT. NOTIFY THE OWNER'S REPRESENTATIVE IMMEDIATELY SHOULD CONFLICTS ARISE AND REDIRECT WORK TO AVOID DELAY.
5. ALL EXISTING ITEMS ARE TO REMAIN UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING OR REPLACING, AT CONTRACTOR'S EXPENSE, ANY EXISTING ITEM DAMAGED OR DESTROYED BY CONSTRUCTION OPERATIONS. CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR REPAIRING OR REPLACING ANY AND ALL DAMAGES TO ADJACENT PROPERTIES. THE DAMAGED ITEMS SHALL BE RESTORED TO AN "AS-WAS" OR BETTER CONDITION OR REPLACED PER THE DISCRETION OF THE OWNER'S REPRESENTATIVE.
6. PRIOR TO ANY DEMOLITION WORK, CONTRACTOR SHALL INSTALL SELF-SUPPORTING INTERLOCKING CHAIN-LINK TEMPORARY CONSTRUCTION FENCING TO ENCLOSE AND SECURE THE PROJECT AREA LIMIT OF WORK. THE FENCING SHALL CONTAIN PEDESTRIAN AND/OR VEHICULAR ACCESS GATES AS NECESSARY AND SHALL BE MINIMUM 6 FEET HIGH WITH A TOP AND BOTTOM RAIL WITH KNUCKLED TOP AND BOTTOM SELVAGE (NO BARBED WIRE PERMITTED). FENCE SHALL INCLUDE FULL HEIGHT GREEN SHADE CLOTH COVERING. THE CONSTRUCTION FENCING WORK SHALL BE SUBJECT TO THE DISCRETION OF THE OWNER'S REPRESENTATIVE.
7. PRIOR TO ANY DEMOLITION WORK, CONTRACTOR SHALL PROTECT ALL EXISTING PLANT MATERIAL NOT SCHEDULED FOR REMOVAL BY INSTALLING TEMPORARY 4 FOOT HIGH "BLAZE ORANGE" CONSTRUCTION SAFETY FENCING AT THE DRIP LINE OR PERIMETER. THE FENCING SHALL BE SECURED WITH DRIVEN METAL STAKES. ALL TREE PROTECTION WORK SHALL BE SUBJECT TO THE DISCRETION OF THE OWNER'S REPRESENTATIVE.
8. DEMOLITION SHALL INCLUDE THE REMOVAL OF ITEM AND ANY FOUNDATION OR STRUCTURAL SUPPORT RELATED TO ITEM FOR PLANT MATERIAL THIS SHALL INCLUDE STUMPS AND ROOTS OVER 2 INCHES IN DIAMETER. DISPOSAL SHALL BE OFF-SITE IN A LEGAL MANNER ACCEPTABLE TO THE OWNER'S REPRESENTATIVE AND IN COMPLIANCE WITH ALL FEDERAL, STATE AND LOCAL CODES AND ORDINANCES.
9. REFER TO SPECIFICATIONS FOR ADDITIONAL CLEARING, GRUBBING, TOPSOIL STOCKPILING AND OTHER PERTINENT INFORMATION.

DEMOLITION LEGEND

SYM	DESCRIPTION
	LIMIT OF WORK / CONSTRUCTION FENCING
	PROPERTY LINE
	EXISTING SURFACE VEGETATION TO BE REMOVED. EXISTING TOP 6" OF TOP SOIL SHALL BE STOCKPILED. REMOVE EXCESS SOIL FROM SITE. REFER TO EARTHWORK SPECIFICATIONS FOR INFORMATION.
	ALTERNATES 'A' & 'B' - EXISTING SURFACE VEGETATION TO BE REMOVED. EXISTING TOP 6" OF TOP SOIL SHALL BE STOCKPILED. REMOVE EXCESS SOIL FROM SITE. REFER TO EARTHWORK SPECIFICATIONS FOR INFORMATION.
	ALTERNATE 'B'- DEMOLISH AND REMOVE EXISTING GRAVEL.
	DEMOLISH AND REMOVE EXISTING HARDSCAPE PAVING INCLUDING BASE MATERIAL.
	ALTERNATES 'A' & 'B'- DEMOLISH AND REMOVE EXISTING HARDSCAPE PAVING INCLUDING BASE MATERIAL.
	MILL ASPHALT PAVING 1" (REFER TO MATERIALS PLAN AND DETAILS)
	TRENCH- REFER TO DRAINAGE AND UTILITY AND/OR ELECTRICAL PLANS
	DEMOLISH AND REMOVE EXISTING FENCE, INCLUDING ALL FOOTINGS, FABRIC, POSTS, AND GATES, HARDWARE, AND FITTINGS.
	SAWCUT EXISTING EDGE
R	TREE TO REMAIN AND BE PROTECTED AND PRUNED, REFER TO SPECIFICATIONS

ITEMS TO BE DEMOLISHED AND/OR REMOVED

- (A) TICKET SHED TO BE DEMOLISHED AND REMOVED.
- (B) STORAGE CONTAINER TO BE REMOVED AND RELOCATED DURING CONSTRUCTION.
- (C) FENCE, INCLUDING ALL FOOTINGS, FABRIC, POSTS, AND GATES, HARDWARE, AND FITTINGS TO BE DEMOLISHED AND REMOVED.
- (D) CONTRACTOR TO REMOVE EXISTING FENCE FABRIC TO ALLOW FOR AREA DEMOLISHING AND ASPHALT PAVING. CONTRACTOR TO REINSTALL FENCE FABRIC UPON COMPLETION.
- (E) POLES TO BE DEMOLISHED AND REMOVED.
- (F) CONCRETE BOX TO BE REMOVED AND REPLACED WITH NEW BOX. BOX TO BE FLUSH WITH NEW GRADES.

NORTH

0' 15' 30' 60' 90'

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
2455 The Alameda
Santa Clara, CA 95050
tel: 408.985.7200
fax: 408.985.7260
www.VerdeDesigninc.com

STAMP

REGISTERED PROFESSIONAL ENGINEER
KEVIN CONWAY
No. C-56494
Signature
EXPIRATION DATE:
STATE OF CALIFORNIA

CONSULTANT

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APPL 01-XXXXXX
FILE XX-XX
AC _____ FLS _____ SS _____
DATE _____
DSA PROJECT TRACKING NO:
XXXX-XX

SHEET TITLE
DEMOLITION PLAN

PROJECT NAME
COLLEGE PARK HIGH SCHOOL ATHLETIC FACILITY IMPROVEMENTS

PROJECT ADDRESS
201 VIKING DR
PLEASANT HILL, CA 94523

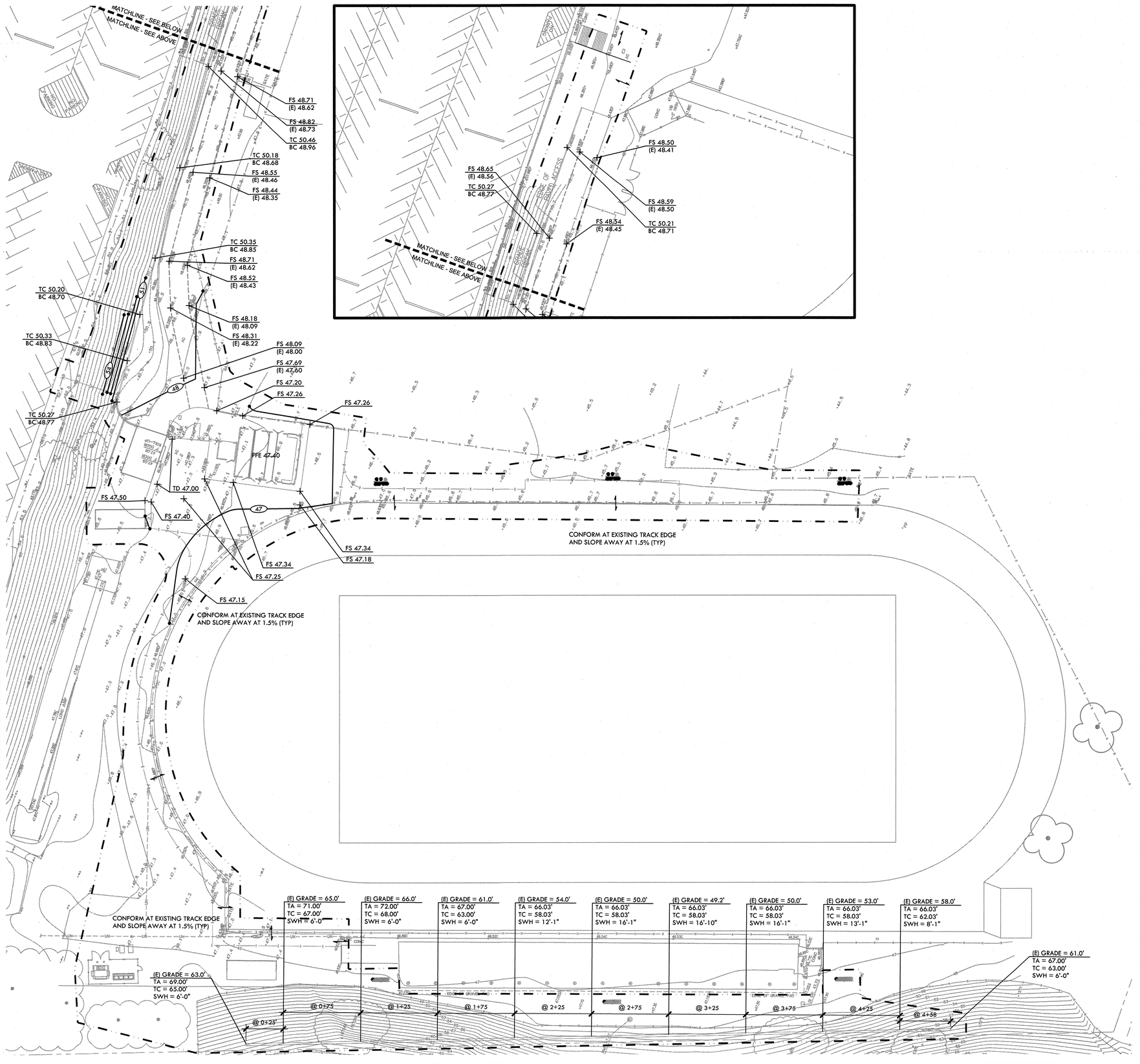
SUBMITTAL	DATE
50% DD SUBMITTAL	02/07/13
DSA SUBMITTAL	10/17/14

NO.	REVISIONS	DATE
1		
2		
3		
4		
5		
6		

DRAWN BY	CHECKED BY
HM	TW
DATE ISSUED: 10/17/14	SCALE: 1" = 30'-0"
PROJ. NO.: 1209000-1209	
SHEET NO.: L2.0	6 OF 44 SHEETS

ALL IDEAS, DESIGNS, ARRANGEMENTS, AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY AND THE PROPERTY OF VERDE DESIGN, INC. AND WERE CREATED, EVOLVED, AND DEVELOPED FOR USE ON AND IN CONNECTION WITH THE SPECIFIED PROJECT. NONE OF SUCH IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL BE USED, REPRODUCED, OR PUBLISHED BY ANY METHOD, IN WHOLE OR IN PART, OR DISCLOSED TO ANY PERSON, FIRM, OR CORPORATION FOR ANY PURPOSE WHATSOEVER WITHOUT WRITTEN PERMISSION OF VERDE DESIGN, INC.

DRAWING NAME: L:\2012\1209000-1209 - College Park HS-Athletic Facility\CAD_DEM.dwg
PLOT DATE: 10-14-14 PLOTTED BY: station31



GRADING NOTES

1. EXISTING GRADES ARE BASED ON INFORMATION PROVIDED BY: WARD SURVEYING. CONTRACTOR SHALL VERIFY EXISTING GRADES FOR ACCURACY PRIOR TO THE START OF GRADING, NOTIFY THE OWNER'S REPRESENTATIVE IMMEDIATELY SHOULD CONFLICTS ARISE AND REDIRECT WORK TO AVOID DELAY.
2. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES, STRUCTURES AND SERVICES BEFORE COMMENCING WORK. THE LOCATIONS OF UTILITIES, STRUCTURES AND SERVICES SHOWN IN THE CONTRACT DOCUMENTS SHALL BE DEEMED TO BE APPROXIMATIONS ONLY. ALL DISCREPANCIES BETWEEN WHAT IS SHOWN AND THE ACTUAL FIELD CONDITIONS SHALL BE REPORTED TO THE OWNER'S REPRESENTATIVE. THE CONTRACTOR SHALL CONTACT UNDER GROUND SERVICE ALERT (USA) AT (800) 227-2600 PRIOR TO ANY DEMOLITION OR EXCAVATION. UPON COMPLETION OF USA MARKING OPERATIONS, CONTRACTOR SHALL RECORD ALL UTILITY MARKINGS ON A SEPARATE SET OF DRAWINGS. THIS SET SHALL BE KEPT ON-SITE FOR REFERENCE FOR DURATION OF CONTRACT.
3. PROPOSED GRADES SHALL MEET EXISTING GRADES WITH A SMOOTH AND CONTINUOUS TRANSITION SO AS TO AVOID TRAPPING WATER. CONTRACTOR SHALL NOTIFY DISTRICT REPRESENTATIVE IF PUDDLING IS SUSPECTED AND REDIRECT WORK SO AS TO AVOID DELAY WHILE AWAITING RESPONSE.
4. ALL EXISTING DRAINAGE STRUCTURES, BOXES, UTILITY VAULTS ETC. SHALL BE BROUGHT TO FINAL FINISH GRADE PRIOR TO FINAL SURFACE TREATMENT.

GRADING LEGEND

SYM	DESCRIPTION
108	PROPOSED CONTOUR
FG 108.5	PROPOSED FINISH GRADE ELEVATION OF SOFTSCAPE
FS 108.5	PROPOSED FINISH SURFACE ELEVATION OF HARDSCAPE
RIM 108.5	LOW POINT/ RIM ELEVATION OF DRAIN
	CONFORM TO EXISTING GRADE
	LIMIT OF GRADING - CONFORM TO EXISTING GRADES AT THIS LINE
SWH	SOUND WALL HEIGHT ABOVE GRADE (REF S-2.1)
TA	ELEVATION AT TOP OF ACRYLIC PANEL
TC	ELEVATION AT TOP OF CONCRETE STEM WALL

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
2455 The Alameda
Santa Clara, CA 95050
tel: 408.985.7200
fax: 408.985.7260
www.VerdeDesigninc.com

STAMP

REGISTERED PROFESSIONAL ENGINEER
KEVIN CONWAY
No. C-56494
Signature
EXPIRATION DATE:
STATE OF CALIFORNIA

CONSULTANT

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APPL 01-XXXXXX
FILE XX-XX
AC _____ FLS _____ SS _____
DATE _____
DSA PROJECT TRACKING NO:
XXXX-XX

SHEET TITLE

GRADING PLAN

PROJECT NAME

COLLEGE PARK HIGH SCHOOL ATHLETIC FACILITY IMPROVEMENTS

PROJECT ADDRESS

201 VIKING DR
PLEASANT HILL, CA
94523

SUBMITTAL	DATE
50% DD SUBMITTAL	02/07/13
DSA SUBMITTAL	10/17/14

NO.	REVISIONS	DATE
1		
2		
3		
4		
5		
6		

DRAWN BY	CHECKED BY
CS	TW
DATE ISSUED: 10/17/14	SCALE: 1" = 30'-0"

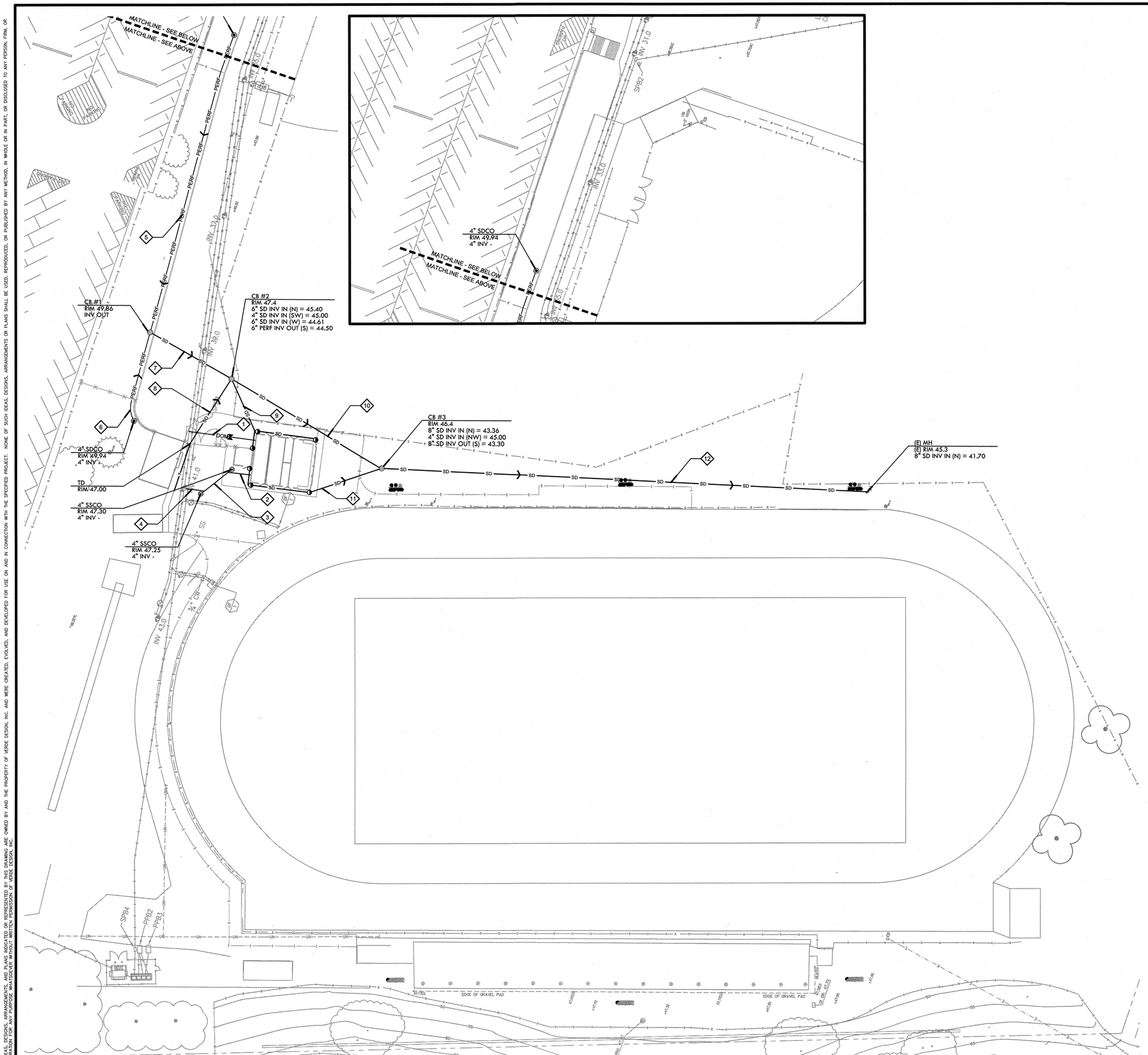
PROJ. NO.
1209000-1209

SHEET NO.
L3.0
7 OF 44 SHEETS

GRADING PLAN

ALL IDEAS, DESIGNS, ARRANGEMENTS, AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY AND THE PROPERTY OF VERDE DESIGN, INC. AND WERE CREATED, EVOLVED, AND DEVELOPED FOR USE ON AND IN CONNECTION WITH THE SPECIFIED PROJECT. NONE OF SUCH IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL BE USED, REPRODUCED, OR PUBLISHED BY ANY METHOD, IN WHOLE OR IN PART, OR DISCLOSED TO ANY PERSON, FIRM, OR CORPORATION FOR ANY PURPOSE WHATSOEVER WITHOUT PRIOR WRITTEN PERMISSION OF VERDE DESIGN, INC.

DRAWING NAME: L:\2012\1209000-1209 - College Park HS-Athletic Facility\CAD_GRD.dwg
PLOT DATE: 10-14-14 PLOTTED BY: station31



DRAINAGE & UTILITY NOTES

1. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES, STRUCTURES, AND SERVICES BEFORE COMMENCING WORK. THE LOCATIONS OF UTILITIES, STRUCTURES, AND SERVICES SHOWN IN THE CONTRACT DOCUMENTS SHALL BE DEEMED TO BE APPROXIMATIONS ONLY. ALL DISCREPANCIES BETWEEN WHAT IS SHOWN AND THE ACTUAL FIELD CONDITIONS SHALL BE REPORTED TO THE DISTRICT REPRESENTATIVE. THE CONTRACTOR SHALL CONTACT UNDER GROUND SERVICE ALERT (USA) AT (800) 227-2600 PRIOR TO ANY DEMOLITION OR EXCAVATION. UPON COMPLETION OF USA MARKING OPERATIONS, CONTRACTOR SHALL RECORD ALL UTILITY MARKINGS ON A SEPARATE SET OF DRAWINGS. THIS SET SHALL BE KEPT ON-SITE FOR REFERENCE FOR DURATION OF CONTRACT.
2. ALL EXISTING DRAINAGE STRUCTURES, BOXES, UTILITY VAULTS ETC. TO REMAIN, SHALL BE BROUGHT TO FINAL FINISH GRADE PRIOR TO FINAL SURFACE TREATMENT.
3. THE CONTRACTOR IS TO PROTECT DRAINAGE SYSTEM FROM DEBRIS, INCLUDING SOIL, ROCK MATERIAL, AND TRASH FROM ENTERING THE PIPE DURING CONSTRUCTION. CONTRACTOR SHALL AVOID PLACING CONSTRUCTION VEHICLES OVER INSTALLED DRAINAGE TRENCHES TO PREVENT CRUSHING OF PIPE.
4. COORDINATE ALL SLEEVING AND UTILITY LOCATIONS AS SHOWN ON THE PLANS AND DETAILS CONTAINED WITHIN THESE CONTRACT DOCUMENTS.
5. THE CONTRACTOR IS TO ENSURE THAT ALL REMAINING ACTIVE AND NEW DRAINAGE AND UTILITY LINES ARE PROTECTED AND UNDAMAGED FROM TRENCHING AND FOOTING EXCAVATIONS FOR NEW FOOTINGS, PARTICULARLY FOR NEW FENCING AND WALLS.
6. ALL ABANDONED STORM LINES SHALL REMAIN IN PLACE UNLESS IN CONFLICT WITH PROPOSED DRAINAGE, UTILITY, OR SUBGRADING OPERATIONS, IN WHICH CASE ABANDONED PIPE IN CONFLICT SHALL BE REMOVED. REMAINING ABANDONED STORM PIPE SHALL BE SEALED WITH APPROPRIATELY SIZED CONCRETE CAP (3 SACK MIX) 6" ENVELOPE OUTSIDE AND INSIDE DIAMETER OF PIPE.
7. PRIOR TO ALL DRAINAGE AND UTILITY WORK, CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL POTENTIAL DRAINAGE CONNECTIONS AND EXISTING UTILITY BY POTHOLING. IN ADDITION, ALL DOWNSTREAM CONNECTIONS TO EXISTING STRUCTURES SHALL BE THE START OF THESE OPERATIONS, AND GRADES SHALL BE VERIFIED.
8. WHEN WORK HAS TO OCCUR UNDER THE DRIPLINE OF EXISTING TREES NOT SCHEDULED FOR REMOVAL, THE CONTRACTOR SHALL USE ALL POSSIBLE CARE TO AVOID INJURY TO THE TREES AND TREE ROOTS. GRADE IN LINES RADIAL TO THE EXISTING TREES RATHER THAN TANGENTIAL. ALL PARTIAL CUTS OR TEARS THROUGH ROOTS TWO INCHES IN DIAMETER AND LARGER SHALL BE CUT CLEAN. TRENCHES ADJACENT TO TREES SHALL BE FILLED WITHIN 24 HOURS AFTER EXCAVATION, BUT WHERE THIS IS NOT POSSIBLE, THE SIDE OF THE TRENCH ADJACENT TO THE TREE, AND ANY EXPOSED ROOTS SHALL BE KEPT SHADED AND MOIST WITH DAMPENED BURLAP OR CANVAS.

DRAINAGE & UTILITY LEGEND

SYM	DESCRIPTION	DETAIL NUMBER / SHEET NUMBER
	EXISTING SANITARY SEWER LINE	
	EXISTING DOMESTIC WATER LINE	
PERF	PERFORATED SUBDRAIN (PERF) - SIZE PER PLAN - INSTALL 3' FROM EDGE OF CURB.	B / D1.0
SD	SOLID WALL STORM DRAIN (SD), SIZE PER PLAN	A / D1.0
SS	SANITARY SEWER LINE (SS), SIZE PER PLAN	A / D1.0
DOM	DOMESTIC WATER LINE (DOM), SIZE PER PLAN	
T	TRENCH DRAIN	F / D1.0
	DOWN SPOUT CONNECTION	E / D1.0
	6" CLEAN OUT	D / D1.0
	CATCH BASIN	C / D1.0
SS	SANITARY SEWER CLEANOUT	D / D1.0
	3" DOMESTIC WATER VALVE	G / D1.0
	EXISTING DOMESTIC WATER VALVE	
	FLOW	
INV	INVERT	
LF	LINEAL FEET	
S=0.5%	SLOPE	
MIN.	MINIMUM	

DRAINAGE/UTILITIES REFERENCE NOTES

NOTE #	DESCRIPTION
1	44 LF 3" OD DOM @ S= #%
2	15 LF 3" OD SS @ S= #%
3	24 LF 4" OD SS @ S= #%
4	12 LF 4" OD SS @ S= #%
5	200 LF 6" OD PERF @ S= MIN .5%
6	57 LF 6" OD PERF @ S= MIN .5%
7	58 LF 6" OD SD @ S= MIN .5%
8	48 LF 6" OD SD @ S= MIN .5%
9	35 LF 4" OD SD @ S= MIN .5%
10	110 LF 8" OD SD @ S= MIN .5%
11	46 LF 4" OD SD @ S= MIN .5%
12	318 LF 8" OD SD @ S= MIN .5%

NORTH
0' 15' 30' 60' 90'

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
2455 The Alameda
Santa Clara, CA 95050
tel: 408.985.7200
fax: 408.985.7260
www.VerdeDesigninc.com

STAMP

REGISTERED PROFESSIONAL ENGINEER
DEVIN CONWAY
No. C-56494
Signature
EXPIRATION DATE:
STATE OF CALIFORNIA

CONSULTANT

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APPL 01-XXXXXX
FILE XX-XX
AC _____ FLS _____ SS _____
DATE _____
DSA PROJECT TRACKING NO:
XXXX-XX

SHEET TITLE
DRAINAGE AND UTILITY PLAN

PROJECT NAME
COLLEGE PARK HIGH SCHOOL ATHLETIC FACILITY IMPROVEMENTS

PROJECT ADDRESS
201 VIKING DR
PLEASANT HILL, CA 94523

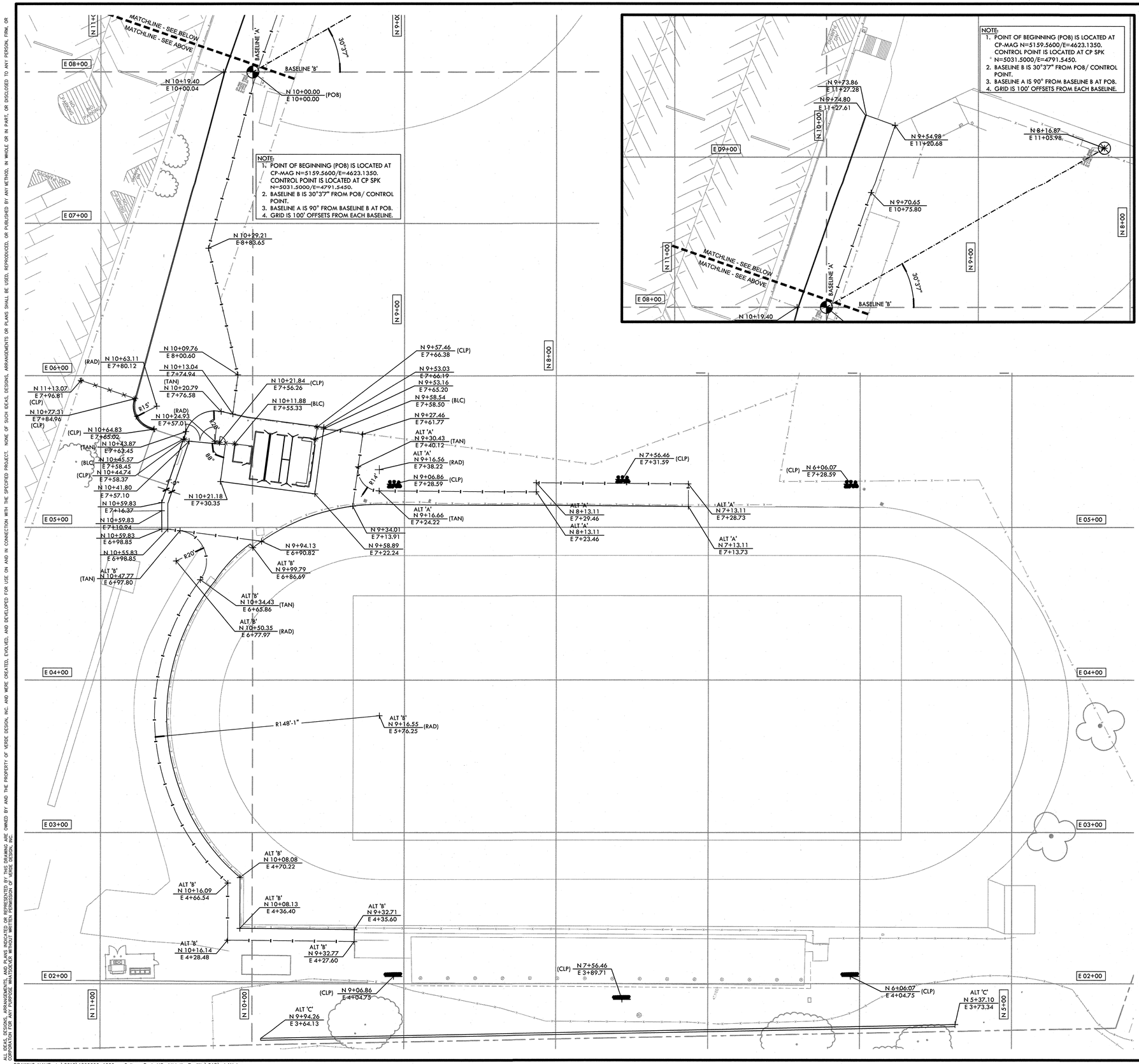
SUBMITTAL	DATE
50% DD SUBMITTAL	02/07/13
DSA SUBMITTAL	10/17/14

NO.	REVISIONS	DATE
4		
3		
2		
1		

DRAWN BY	CHECKED BY
CS	TW
DATE ISSUED: 10/17/14	SCALE: 1" = 30'-0"
PROJ. NO.: 1209000-1209	
SHEET NO.: L4.0 8 OF 44 SHEETS	

ALL IDEAS, DESIGNS, ARRANGEMENTS, AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY AND THE PROPERTY OF VERDE DESIGN, INC. AND WERE CREATED, EVOLVED, AND DEVELOPED FOR USE ON AND IN CONNECTION WITH THE SPECIFIED PROJECT. NONE OF SUCH IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL BE USED, REPRODUCED, OR PUBLISHED BY ANY METHOD, IN WHOLE OR IN PART, OR DISCLOSED TO ANY PERSON, FIRM, OR CORPORATION FOR ANY PURPOSE WHATSOEVER WITHOUT WRITTEN PERMISSION OF VERDE DESIGN, INC.

DRAWING NAME: L:\2012\1209000-1209 - College Park HS-Athletic Facility\CAD_DRN.dwg
PLOT DATE: 10-14-14 PLOTTED BY: station31



LAYOUT NOTES

1. THE CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION ELEMENTS INCLUDING UTILITY LOCATIONS AND REQUIRED SLEEVING PRIOR TO INSTALLATION. VERIFY CRITICAL DIMENSIONS, REFERENCE POINT LOCATIONS AND CONSTRUCTION CONDITIONS PRIOR TO INITIATING CONSTRUCTION. TEMPORARY BENCHMARKS OR REFERENCE POINTS SHALL BE SET BY THE CONTRACTOR AS NECESSARY. NOTIFY THE OWNER'S REPRESENTATIVE IMMEDIATELY SHOULD DISCREPANCY ARISE AND REDIRECT WORK TO AVOID DELAYS.
2. ALL DIMENSIONS SHALL BE VERIFIED IN FIELD AND CHALKED, STRING LINED OR FLAGGED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. ANY MINOR ADJUSTMENTS MADE TO ACHIEVE OVERALL DESIGN LAYOUT SHALL BE ACCEPTED BY THE OWNER PRIOR TO CONSTRUCTION.
3. LAYOUT IS BASED ON THE POINT(S) OF BEGINNING (P.O.B.) AND BASELINE(S) OR GRID SYSTEM AS SHOWN. DIMENSIONS SHOWN ARE ROUNDED TO THE NEAREST INCH.
4. ALL LAYOUT AND GRADES SHALL BE COMPLETED BY A LICENSED SURVEYOR.

LAYOUT LEGEND

SYM	DESCRIPTION
POB	POINT OF BEGINNING
	CONTROL POINT FOR BASELINE A
R10'	RADIUS POINT / CENTER MARK
90°	PROPOSED ANGLE BETWEEN ELEMENTS
ALIGN	ALIGN EDGES OF ELEMENTS
	CENTER LINES
	BASELINE
	CONTROL LINE
N 10+21.95 E 11+97.08	NORTHING/EASTING LAYOUT COORDINATE CALLOUT
(CLP)	CENTERLINE OF POST OR POLE
(COB)	CENTER OF BASIN / DRAINAGE / UTILITY STRUCTURE
(BLC)	BUILDING CORNER
(RAD)	RADIUS POINT
(TAN)	TANGENT POINT

NORTH
0' 15' 30' 60' 90'

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
2455 The Alameda
Santa Clara, CA 95050
tel: 408.985.7200
fax: 408.985.7260
www.VerdeDesigninc.com

STAMP

REGISTERED PROFESSIONAL ENGINEER
DEVIN CONRAD
No. C-56494
Signature:
EXPIRATION DATE:
STATE OF CALIFORNIA

CONSULTANT

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APPL 01-XXXXXX
FILE XX-XX
AC _____ FLS _____ SS _____
DATE _____
DSA PROJECT TRACKING NO:
XXXX-XX

SHEET TITLE
LAYOUT PLAN

PROJECT NAME
COLLEGE PARK HIGH SCHOOL ATHLETIC FACILITY IMPROVEMENTS

PROJECT ADDRESS
201 VIKING DR
PLEASANT HILL, CA 94523

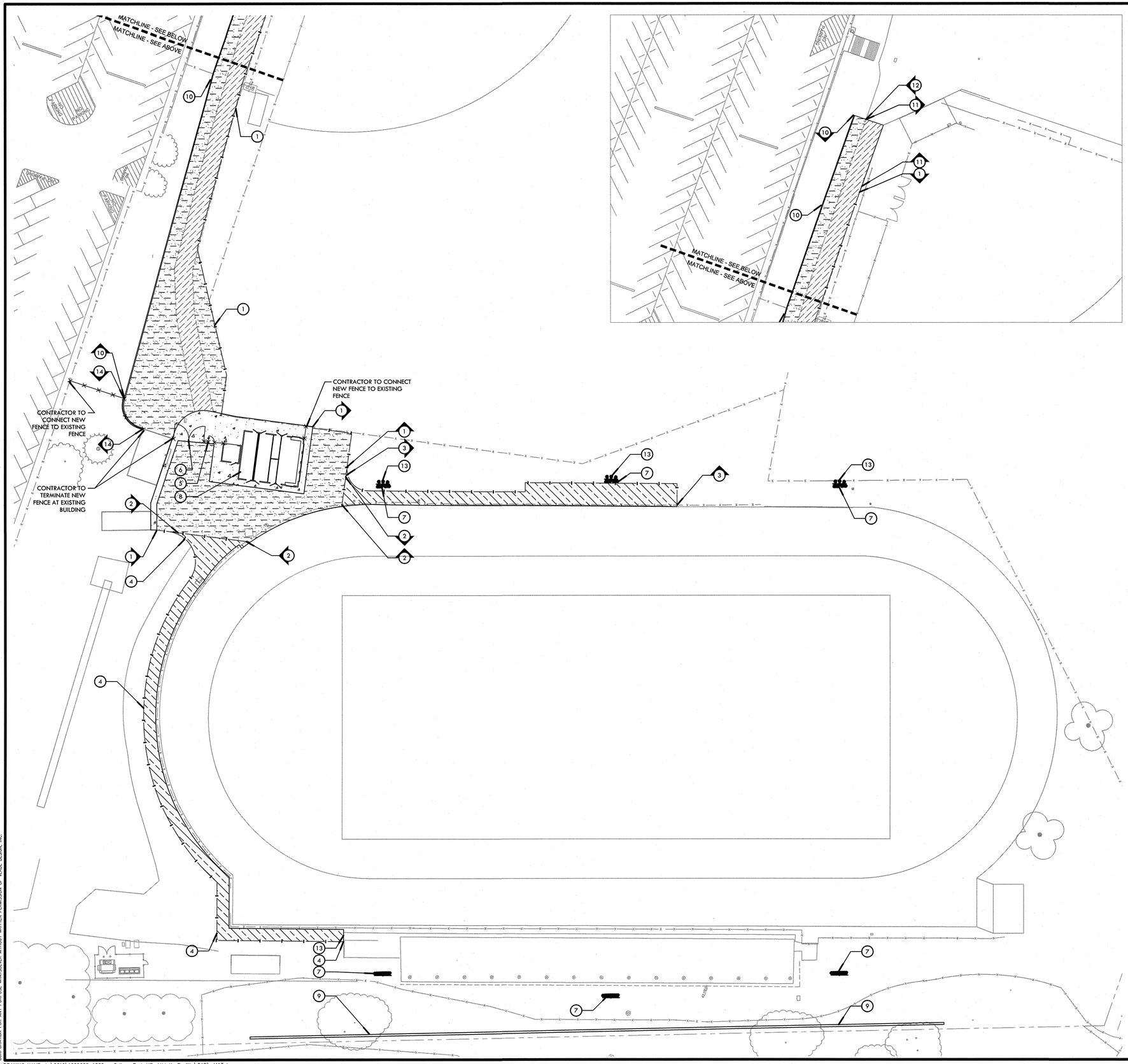
SUBMITTAL	DATE
50% DD SUBMITTAL	02/07/13
DSA SUBMITTAL	10/17/14

NO.	REVISIONS	DATE
1		
2		
3		
4		
5		
6		

DRAWN BY	CHECKED BY
HM	TW
DATE ISSUED: 10/17/14	SCALE: 1" = 30'-0"
PROJ. NO.: 1209000-1209	
SHEET NO.: L5.0 9 OF 44 SHEETS	

ALL IDEAS, DESIGNS, ARRANGEMENTS, AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY AND THE PROPERTY OF VERDE DESIGN, INC. AND WERE CREATED, EVOLVED, AND DEVELOPED FOR USE ON AND IN CONNECTION WITH THE SPECIFIED PROJECT. NONE OF SUCH IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL BE USED, REPRODUCED, OR PUBLISHED BY ANY METHOD, IN WHOLE OR IN PART, OR DISCLOSED TO ANY PERSON, FIRM, OR CORPORATION FOR ANY PURPOSE WHATSOEVER WITHOUT WRITTEN PERMISSION OF VERDE DESIGN, INC.

DRAWING NAME: L:\2012\1209000-1209 - College Park HS-Athletic Facility\CAD_LAY.dwg
PLOT DATE: 10-14-14 PLOTTED BY: station31



MATERIAL NOTES

1. THE CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION ELEMENTS INCLUDING UTILITY LOCATIONS AND REQUIRED SLEEVING PRIOR TO INSTALLATION. VERIFY CRITICAL DIMENSIONS, REFERENCE POINT LOCATIONS AND CONSTRUCTION CONDITIONS PRIOR TO INITIATING CONSTRUCTION. TEMPORARY BENCHMARKS OR REFERENCE POINTS SHALL BE SET BY THE CONTRACTOR AS NECESSARY. NOTIFY THE OWNER'S REPRESENTATIVE IMMEDIATELY SHOULD DISCREPANCY ARISE AND REDIRECT WORK TO AVOID DELAYS.
2. THE INTERFACE OF ALL PROPOSED IMPROVEMENTS TO EXISTING SITE SHALL CONFORM AND BE SMOOTH AND UNIFORM.
3. ALL REINFORCING AND FORMS SHALL BE SECURED IN PLACE AND ACCEPTED BY OWNER'S REPRESENTATIVE PRIOR TO PLACING ANY CONCRETE.
4. CONCRETE FINISHES SHALL BE AS NOTED. CONTRACTOR SHALL PROVIDE 4'X4' SAMPLES OF ALL SPECIFIED FINISHES OF CONCRETE USING THE SAME MATERIALS THAT WILL BE USED IN THE ACTUAL CONSTRUCTION FOR EACH TYPE SPECIFIED. SAMPLES SHALL BE PREPARED WELL ENOUGH IN ADVANCE OF SCHEDULED CONCRETE POUR TO ALLOW FOR REVIEW AND POSSIBLE RE-POURING OF UNACCEPTABLE SAMPLES. UNACCEPTABLE SAMPLES SHALL BE RE-PREPARED UNTIL ACCEPTED BY THE OWNER'S REPRESENTATIVE. ACCEPTED SAMPLES SHALL BE PROTECTED AND REMAIN ON SITE FOR REFERENCE UNTIL FINAL ACCEPTANCE.
5. ALL FENCES AND GATES SHOWN ON PLAN ARE GRAPHIC REPRESENTATIONS; REFER TO DETAILS AND SPECIFICATIONS FOR PRECISE LOCATION.
6. ASPHALT SHALL NOT BE INSTALLED UNTIL ALL EDGES AND SITE FURNISHING PADS ARE INSTALLED.

MATERIAL LEGEND

SYM	DESCRIPTION	DTL REF
	CONCRETE PAVING	A D2.0
	ASPHALT PAVING	D D2.0
	ASPHALT PAVING - VEHICULAR	D D2.0
	ASPHALT PAVING OVERLAY	E D2.0
	ALTERNATE- ASPHALT PAVING	D D2.0
	6' TALL CHAIN LINK FENCE (ALTERNATE 'E'- ORNAMENTAL IRON) C D3.0	D D3.0
	HEADERBOARD- REFER TO SPECIFICATIONS	I D2.0
1	HEADERBOARD- REFER TO SPECIFICATIONS	I D2.0
2	HEADERBOARD (DO NOT INSTALL IF ALTERNATES ARE INSTALLED)	I D2.0
3	ALTERNATE 'A'- HEADERBOARD	I D2.0
4	ALTERNATE 'B'- HEADERBOARD	I D2.0
5	6'X4' - CHAIN LINK SWING GATE (ALTERNATE ORNAMENTAL IRON) H D3.0	I D3.0
6	6'X20' - CHAIN LINK DOUBLE SWING GATE (ALTERNATE ORNAMENTAL IRON) E D3.0	F D3.0
7	SPORTS FIELD LIGHTING - REFER TO ELECTRICAL PLANS	
8	RESTROOM BUILDING - REFER TO ARCHITECTURAL PLANS	
9	ALTERNATE 'C'- SOUND WALL - REFER TO STRUCTURAL PLANS	
10	18" TALL CURB	J D2.0
11	(e) PAVEMENT CONFORM @ MILLED AC	F D2.0
12	(e) PAVEMENT CONFORM @ NEW PAVEMENT	G D2.0
13	ALTERNATE 'D'- BACKLIGHT (e) BASEBALL FIELD - REFER TO ELECTRICAL PLANS	
14	TALL CURB - TYPE 2	K D2.0

NORTH

0' 15' 30' 60' 90'

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
2455 The Alameda
Santa Clara, CA 95050
tel: 408.985.7200
fax: 408.985.7260
www.VerdeDesigninc.com

STAMP

REGISTERED PROFESSIONAL ENGINEER
KEVIN CONWAY
No. C-56494
Signature
EXPIRATION DATE:
STATE OF CALIFORNIA

CONSULTANT

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APPL 01-XXXXXX
FILE XX-XX
AC _____ FLS _____ SS _____
DATE _____
DSA PROJECT TRACKING NO:
XXXX-XX

SHEET TITLE
MATERIAL AND DETAIL REFERENCE PLAN

PROJECT NAME
COLLEGE PARK HIGH SCHOOL ATHLETIC FACILITY IMPROVEMENTS

PROJECT ADDRESS
201 VIKING DR
PLEASANT HILL, CA
94523

SUBMITTAL	DATE
50% DD SUBMITTAL	02/07/13
DSA SUBMITTAL	10/17/14

NO.	REVISIONS	DATE
1		
2		
3		
4		
5		
6		

DRAWN BY	CHECKED BY
HM	TW
DATE ISSUED	SCALE
10/17/14	1" = 30'-0"

PROJ. NO.
1209000-1209

SHEET NO.
L6.0
10 OF 44 SHEETS

ALL IDEAS, DESIGNS, ARRANGEMENTS, AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY AND THE PROPERTY OF VERDE DESIGN, INC. AND WERE CREATED, EVOLVED, AND DEVELOPED FOR USE ON AND IN CONNECTION WITH THE SPECIFIED PROJECT. NONE OF SUCH IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL BE USED, REPRODUCED, OR PUBLISHED BY ANY METHOD, IN WHOLE OR IN PART, OR DISCLOSED TO ANY PERSON, FIRM, OR CORPORATION FOR ANY PURPOSE WHATSOEVER WITHOUT WRITTEN PERMISSION OF VERDE DESIGN, INC.

DRAWING NAME: L:\2012\1209000-1209 - College Park HS-Athletic Facility\CAD_MAT.dwg
PLOT DATE: 10-14-14 PLOTTED BY: station31

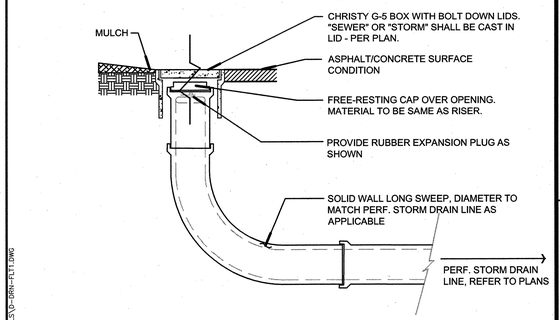
ALL IDEAS, DESIGNS, ARRANGEMENTS, AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY AND THE PROPERTY OF VERDE DESIGN, INC. AND WERE CREATED, EVOLVED, AND DEVELOPED FOR USE ON AND IN CONNECTION WITH THE SPECIFIED PROJECT. NONE OF SUCH IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL BE USED, REPRODUCED, OR PUBLISHED BY ANY METHOD, IN WHOLE OR IN PART, OR DISCLOSED TO ANY PERSON, FIRM, OR CORPORATION FOR ANY PURPOSE WHATSOEVER WITHOUT WRITTEN PERMISSION OF VERDE DESIGN, INC.

P

L

H

D SANITARY / STORM / ROCK DRAIN CLEANOUT NTS

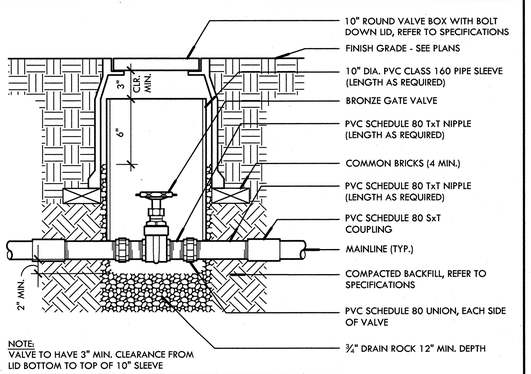


DETAILS\D-SRM-FLT.DWG

O

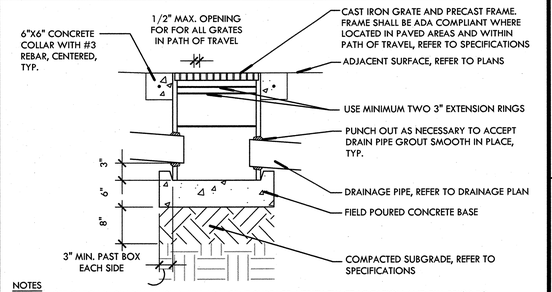
K

G GATE VALVE - 2" AND SMALLER IN SIZE NTS



NOTE:
VALVE TO HAVE 3" MIN. CLEARANCE FROM LID BOTTOM TO TOP OF 10" SLEEVE

C CATCH BASIN NTS

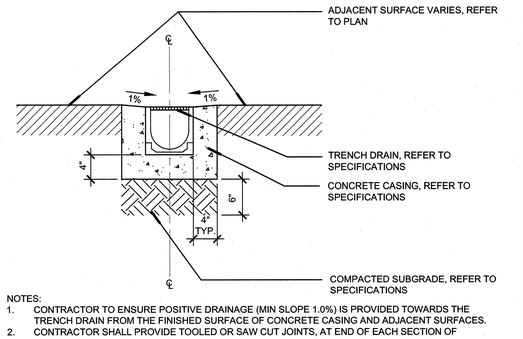


NOTES
1. SET CATCH BASIN RIM FLUSH WITH ADJACENT SURFACE. VERIFY EXACT LOCATION AND RIM PRIOR TO INSTALLATION.
2. POSITIVE DRAINAGE TO INLET SHALL BE VERIFIED BY CONTRACTOR.
3. ALL PIPING ENTRIES AND EXITS INTO DRAINAGE STRUCTURES SHALL BE GROUTED SMOOTH AND WATERTIGHT USING NON-SHRINK GROUT, TYP.
4. ALL RISERS AND EXTENSIONS SHALL BE CONNECTED WITH AN ADHESIVE PRODUCT (RAMNEK OR EQUIVALENT)
5. ALL GRATES SHALL BE FITTED WITH LOCK-DOWN MECHANISMS OR BOLT-DOWN COVERS.

N

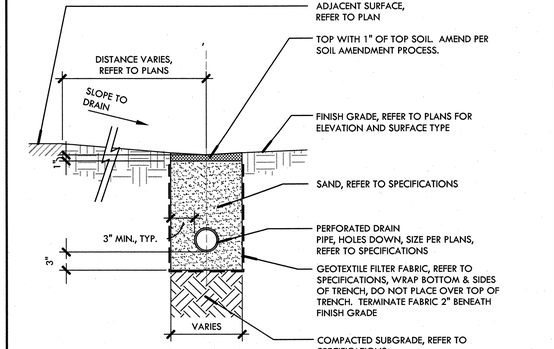
J

F TRENCH DRAIN NTS



NOTES:
1. CONTRACTOR TO ENSURE POSITIVE DRAINAGE (MIN SLOPE 1.0%) IS PROVIDED TOWARDS THE TRENCH DRAIN FROM THE FINISHED SURFACE OF CONCRETE CASING AND ADJACENT SURFACES.
2. CONTRACTOR SHALL PROVIDE TOOLED OR SAW CUT JOINTS, AT END OF EACH SECTION OF TRENCH DRAIN.

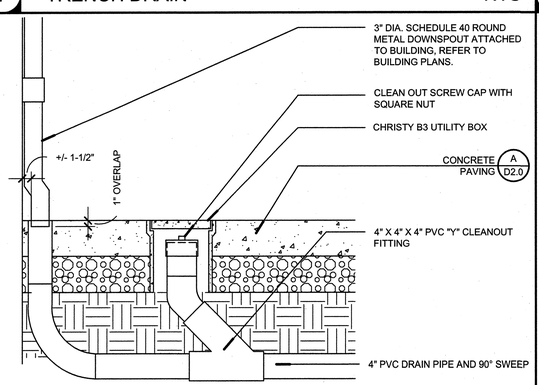
B FRENCH DRAIN NTS



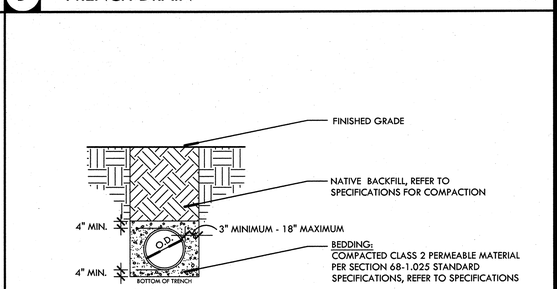
M

I

E DOWNSPOUT CONNECTION NTS



A SANITARY SEWER/SOLID WALL STORM DRAIN LINE NTS



NOTE:
CONTRACTOR TO INSTALL SURFACING IMPROVEMENTS PER DRAWINGS. SECTIONS FOR SURFACING IMPROVEMENTS SHALL SUPERCEDE BACKFILL FOR SEWER OR STORM DRAIN LINES.

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
2455 The Alameda
Santa Clara, CA 95050
tel: 408.985.7200
fax: 408.985.7260
www.VerdeDesigninc.com

STAMP

REGISTERED PROFESSIONAL ENGINEER
KEVIN CONWAY
No. C-56494
Signature
EXPIRATION DATE:
STATE OF CALIFORNIA

CONSULTANT

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APPL 01-XXXXXX
FILE XX-XX
AC _____ FLS _____ SS _____
DATE _____
DSA PROJECT TRACKING NO:
XXXX-XX

SHEET TITLE
DRAINAGE AND UTILITIES DETAILS

PROJECT NAME
COLLEGE PARK HIGH SCHOOL ATHLETIC FACILITY IMPROVEMENTS

PROJECT ADDRESS
201 VIKING DR
PLEASANT HILL, CA
94523

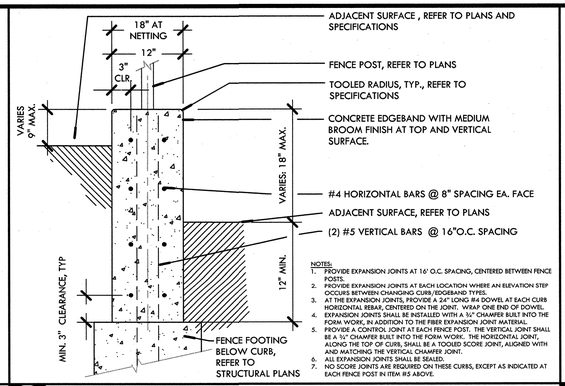
SUBMITTAL	DATE
50% DD SUBMITTAL	02/07/13
DSA SUBMITTAL	10/17/14

NO.	REVISIONS	DATE
1		
2		
3		
4		
5		
6		
7		

DRAWN BY	CHECKED BY
HM	TW
DATE ISSUED	SCALE
10/17/14	AS NOTED
PROJ. NO.	
1209000-1209	
SHEET NO.	
D1.0	11 OF 44 SHEETS

DRAWING NAME: L:\2012\1209000-1209 - College Park HS-Athletic Facility\CAD_DTL1-DRN.dwg
PLOT DATE: 10-14-14 PLOTTED BY: station31

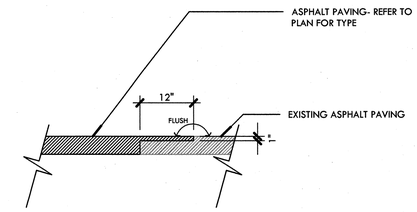
ALL IDEAS, DESIGNS, ARRANGEMENTS, AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY AND THE PROPERTY OF VERDE DESIGN, INC. AND WERE CREATED, EVOLVED, AND DEVELOPED FOR USE ON AND IN CONNECTION WITH THE SPECIFIED PROJECT. NONE OF SUCH IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL BE USED, REPRODUCED, OR PUBLISHED BY ANY METHOD, IN WHOLE OR IN PART, OR DISCLOSED TO ANY PERSON, FIRM, OR ENTITY FOR ANY PURPOSE WHATSOEVER WITHOUT WRITTEN PERMISSION OF VERDE DESIGN, INC.



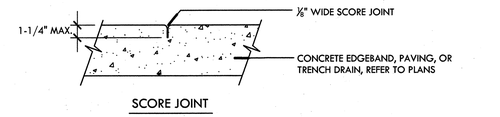
NOTES:
1. PROVIDE EXPANSION JOINTS AT 16' O.C. SPACING, CENTERED BETWEEN FENCE POSTS.
2. PROVIDE EXPANSION JOINTS AT EACH LOCATION WHERE AN ELEVATION STEP OCCURS BETWEEN CHANGING CURB/EDGEBAND TYPES.
3. AT THE EXPANSION JOINTS, PROVIDE A 24" LONG #4 DOWEL AT EACH CURB HORIZONTAL REBAR, CENTERED ON THE JOINT. WRAP ONE END OF DOWEL.
4. EXPANSION JOINTS SHALL BE INSTALLED WITH A ¾" CHAMFER BUILT INTO THE FORM WORK, IN ADDITION TO THE FIBER EXPANSION JOINT MATERIAL.
5. PROVIDE A CONTROL JOINT AT EACH FENCE POST. THE VERTICAL JOINT SHALL BE A ¾" CHAMFER BUILT INTO THE FORM WORK. THE HORIZONTAL JOINT, ALONG THE TOP OF CURB, SHALL BE A TOOLED SCORE JOINT, ALIGNED WITH AND MATCHING THE VERTICAL CHAMFER JOINT.
6. ALL EXPANSION JOINTS SHALL BE SEALED.
7. NO SCORE JOINTS ARE REQUIRED ON THESE CURBS, EXCEPT AS INDICATED AT EACH FENCE POST IN ITEM #5 ABOVE.

O

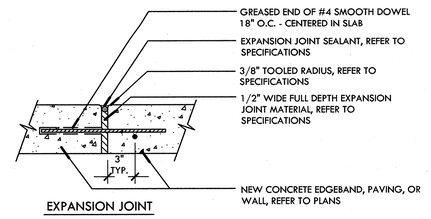
K TALL CURB - TYPE 2 NTS



G NEW AC TO EXISTING AC CONFORM NTS

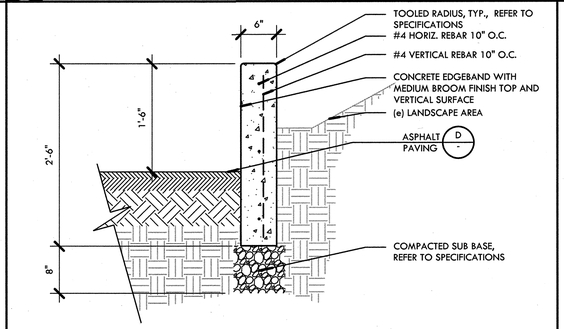


SCORE JOINT

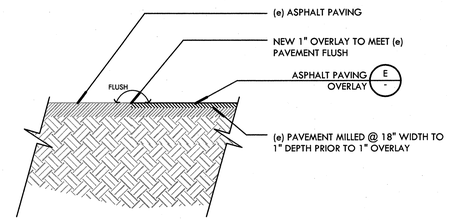


EXPANSION JOINT

N

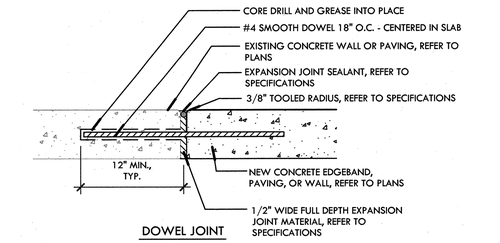


J TALL CURB NTS



NOTE:
ALL AGGREGATE BASE AND ASPHALT PAVING DIMENSIONS ARE REQUIRED MINIMUM THICKNESS, REFER TO SPECIFICATIONS.

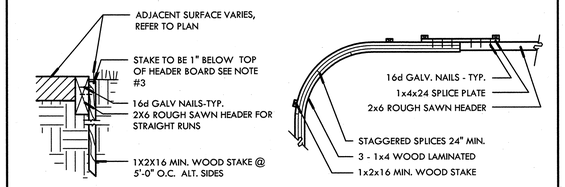
F MILLED AC TO EXISTING AC CONFORM NTS



DOWEL JOINT

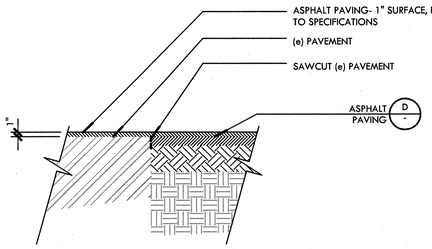
C CONCRETE JOINTS NTS

M



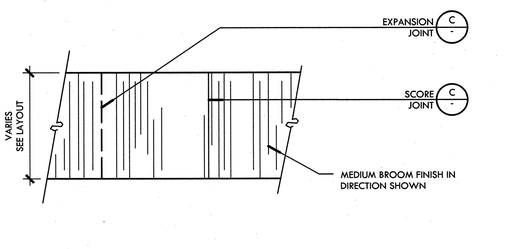
NOTE:
1. USE CURVED DETAIL WHEN RADIUS IS LESS THAN 30' & BOARD LENGTH IS LESS THAN 16'
2. ALL WOOD TO BE ROUGH SAWN REDWOOD CONST. GRADE
3. FINISH GRADE OF PLANTING AREA 1" BELOW TOP OF HEADER.
4. TAPER FINISH GRADE TO 1" WITHIN 4'-0" OF HEADER BOARD.

I REDWOOD HEADER BOARD NTS



NOTE:
ALL AGGREGATE BASE AND ASPHALT PAVING DIMENSIONS ARE REQUIRED MINIMUM THICKNESS, REFER TO SPECIFICATIONS.

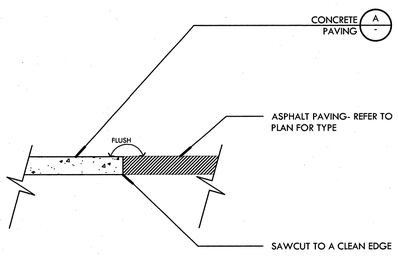
E ASPHALT PAVING OVERLAY NTS



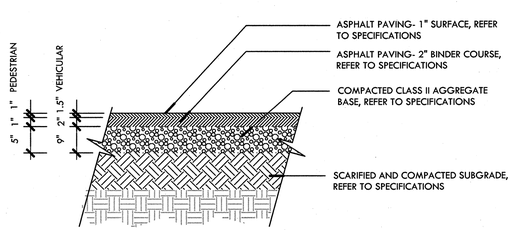
NOTE:
1. PROVIDE SCORE JOINTS 5' O.C. AND 10' O.C. FOR EXPANSION JOINT UNLESS OTHERWISE NOTED.

B CONCRETE PAVING FINISH NTS

L

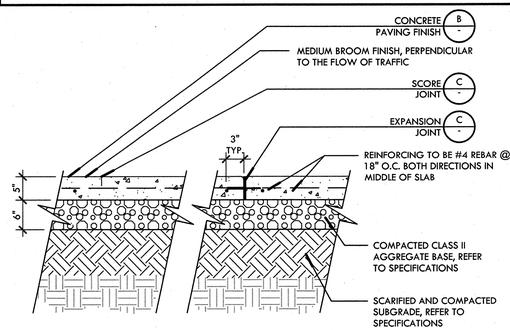


H CONCRETE/ AC CONFORM NTS



NOTE:
ALL AGGREGATE BASE AND ASPHALT PAVING DIMENSIONS ARE REQUIRED MINIMUM THICKNESS, REFER TO SPECIFICATIONS.

D ASPHALT PAVING NTS



NOTE:
1. PROVIDE SCORE JOINTS 5' O.C. AND 10' O.C. FOR EXPANSION JOINT UNLESS OTHERWISE NOTED.

A CONCRETE PAVING NTS

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
2455 The Alameda
Santa Clara, CA 95050
tel: 408.985.7200
fax: 408.985.7260
www.VerdeDesigninc.com

STAMP

REGISTERED PROFESSIONAL ENGINEER
KEVIN CONWAY
No. C-56494
Signature
EXPIRATION DATE:
STATE OF CALIFORNIA

CONSULTANT

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APPL 01-XXXXXX
FILE XX-XX
AC _____ FLS _____ SS _____
DATE _____
DSA PROJECT TRACKING NO:
XXXX-XX

SHEET TITLE
CONSTRUCTION DETAILS

PROJECT NAME
COLLEGE PARK HIGH SCHOOL ATHLETIC FACILITY IMPROVEMENTS

PROJECT ADDRESS
201 VIKING DR
PLEASANT HILL, CA 94523

SUBMITTAL	DATE
50% DD SUBMITTAL	02/07/13
DSA SUBMITTAL	10/17/14

NO.	REVISIONS	DATE
1		
2		
3		
4		
5		
6		

DRAWN BY	CHECKED BY
HM	TW
DATE ISSUED	SCALE
10/17/14	AS NOTED

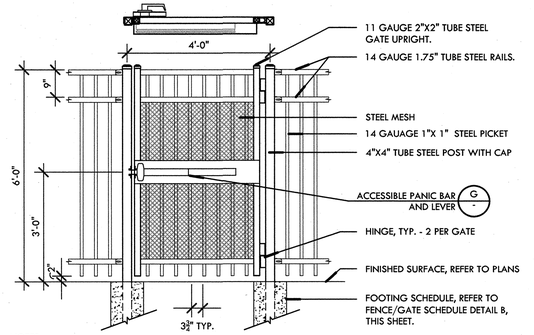
PROJ. NO.
1209000-1209

SHEET NO.
D2.0 12 OF 44 SHEETS

CONSTRUCTION DETAILS

DRAWING NAME: L:\2012\1209000-1209 - College Park HS-Athletic Facility\CAD_DTL2-CON.dwg
PLOT DATE: 10-14-14 PLOTTED BY: station31

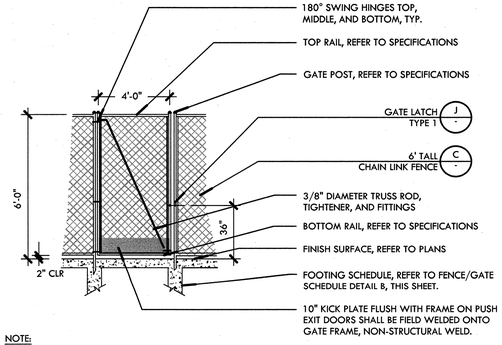
ALL IDEAS, DESIGNS, ARRANGEMENTS, AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY AND THE PROPERTY OF VERDE DESIGN, INC. AND WERE CREATED, EVOLVED, AND DEVELOPED FOR USE ON AND IN CONNECTION WITH THE SPECIFIED PROJECT. NONE OF SUCH IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL BE USED, REPRODUCED, OR PUBLISHED BY ANY MEETHOD, IN WHOLE OR IN PART, OR DISCLOSED TO ANY PERSON, FIRM, OR CORPORATION FOR ANY PURPOSE WHATSOEVER WITHOUT WRITTEN PERMISSION OF VERDE DESIGN, INC.



NOTES:
1. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR APPROVAL PRIOR TO FABRICATION.
2. CONTRACTOR TO GRIND SMOOTH ALL SHOP WELDS AND CONNECTIONS.

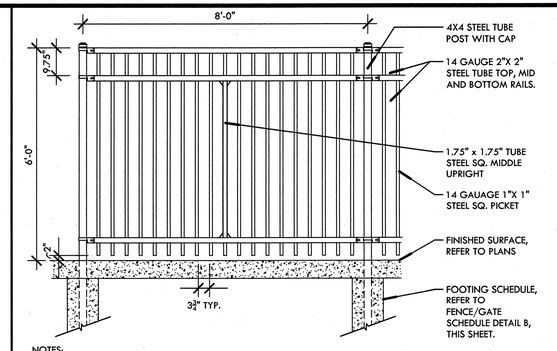
M

I 6'X4' - ORNAMENTAL SWING GATE - ALTERNATE NTS



NOTE:
SEE GENERAL FENCE AND GATE NOTES ON THIS SHEET DETAIL A.

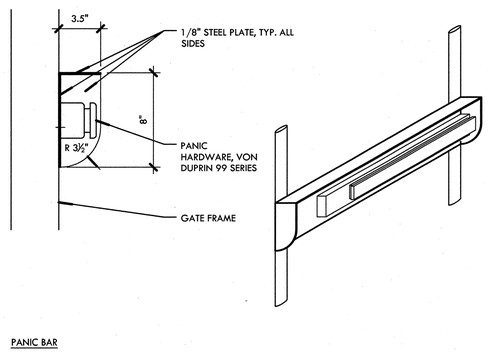
H 6'X4' CHAIN LINK SWING GATE NTS



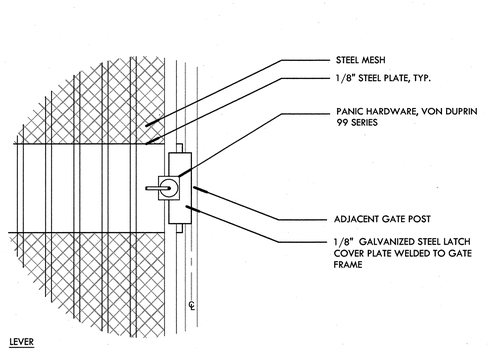
NOTES:
1. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR APPROVAL PRIOR TO FABRICATION.
2. CONTRACTOR TO GRIND SMOOTH ALL SHOP WELDS AND CONNECTIONS.

D ORNAMENTAL FENCE - ALTERNATE NTS

L

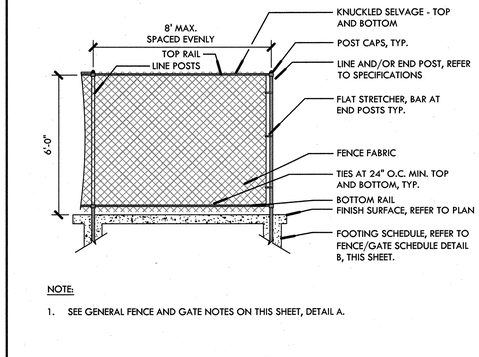


PANIC BAR



LEVER

G ACCESSIBLE PANIC BAR AND LEVER - ALTERNATE NTS

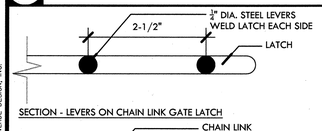


NOTE:

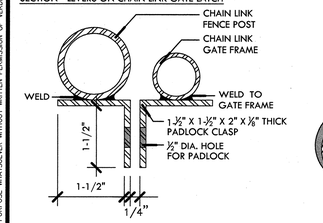
1. SEE GENERAL FENCE AND GATE NOTES ON THIS SHEET, DETAIL A.

C 6' TALL CHAIN LINK FENCE NTS

K

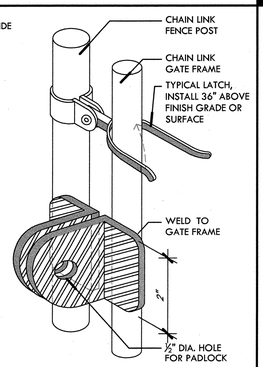


SECTION - LEVERS ON CHAIN LINK GATE LATCH



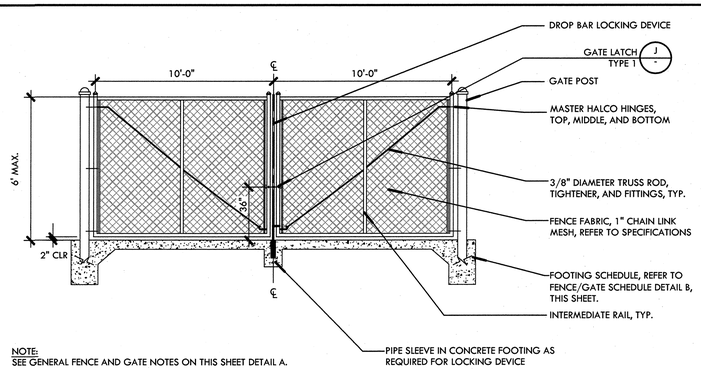
PLAN VIEW - GATE PADLOCK CLASP

NOTE:
SEE FENCE AND GATE NOTES ON SHEET D3.0, DETAIL A.



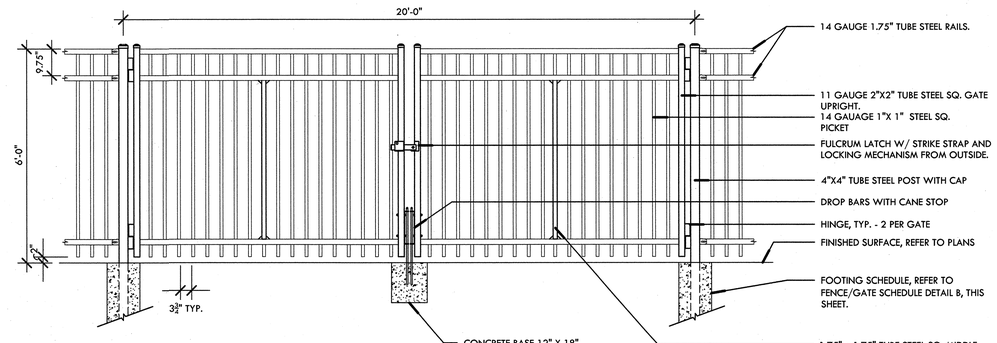
J GATE LATCH - TYPE 1 - INACCESSIBLE NTS

F



NOTE:
SEE GENERAL FENCE AND GATE NOTES ON THIS SHEET DETAIL A.

E 6'X20' CHAIN LINK DOUBLE SWING GATE NTS



NOTES:
1. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR APPROVAL PRIOR TO FABRICATION.
2. CONTRACTOR TO GRIND SMOOTH ALL SHOP WELDS AND CONNECTIONS.

F 6'X20' - ORNAMENTAL DOUBLE SWING GATE - ALTERNATE NTS

B

FENCES

DESCRIPTION	HEIGHT	LINE (STD. GALV. PIPE)	CORNER/END (STD. GALV. PIPE)	FOOTING	MINIMUM VERTICAL REBAR REQUIRED	TIE SIZE
CHAIN LINK FENCE	6'	1.9" O.D.	2.38"" O.D.	16" DIA. X 5'-0" DEEP	NONE	NONE
ORNAMENTAL FENCE	6'	4" SQ X 3/16" HSS	4" SQ X 3/16" HSS	16" DIA. X 6'-0" DEEP	NONE	NONE

GATES

DESCRIPTION	SIZE (H x L)	POSTS (STD. GALV. PIPE)	FOOTING	MINIMUM REBAR REQUIRED	TIE SIZE
CHAIN LINK SWING GATE	6' X 4'	3½" DIA. STD.	16" DIA. X 5'-0" DEEP	NONE	NONE
CHAIN LINK DOUBLE SWING GATE	6' X 10'	3½" DIA. STD.	16" DIA. X 5'-6" DEEP	NONE	NONE
ORNAMENTAL SWING GATE	6' X 4'	4" SQ X 3/16" HSS	16" DIA. X 5'-6" DEEP	NONE	NONE
ORNAMENTAL DOUBLE SWING GATE	6' X 10'	4" SQ X 3/16" HSS	16" DIA. X 6'-0" DEEP	NONE	NONE

NOTE:
THE PIPE SIZES INDICATED ARE NPS FOR , STANDARD PIPE SCHEDULE 40.

FENCE POSTS SHALL BE EMBEDDED FULL DEPTH OF DRILLED PIER. POST TO BE 4" TO 6" CLEAR FROM BOTTOM END OF POST TO BOTTOM OF PIER.

B FENCE/GATE FOOTING SCHEDULE NTS

A

NOTES PERTAIN TO ALL GATE AND FENCE DETAILS:

1. BOTTOM RAIL TO BE 2" FROM FINISH GRADE, FENCE FABRIC BOTTOM EDGE TO BE 1" FROM FINISH GRADE.
2. SUBMIT SHOP DRAWINGS FOR ACCEPTANCE BY OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.
3. REFER TO SPECIFICATIONS FOR ALL HARDWARE AND MATERIALS.
4. GATES IN PATH OF TRAVEL MUST MEET ENTRY AND EXIT DOOR REQUIREMENTS.
5. FOR PEDESTRIAN GATE , PROVIDE LOCKING DEVICE TO SECURE GATE IN OPEN POSITION.
6. ALL PEDESTRIAN SWING GATES SHALL RECEIVE A GATE LOCK. SEE DETAIL J. PEDESTRIAN GATES ARE NOTED BY HAVING A KICK PLATE ATTACHMENT.
7. REFER TO PLANS FOR EDGEBAND TYPE UNLESS OTHERWISE NOTED.
8. REFER TO DETAIL FOR FENCING WITH CURBS AND CHANGE IN ELEVATIONS.
9. FOR GATES WITH DROP BAR, PROVIDE 8" DEEP FOOTING WITH SCH. 40 STEEL PIPE SLEEVE. CANE STOP TO GO DOWN 4" INTO CONCRETE IN CLOSED POSITION.
10. TACK WELD HINGES TO POSTS AT GATES
11. DOUBLE SWING GATES THAT ARE INLINE WITH FENCING, GATE POSTS SHALL BE OFFSET FROM THE FENCE TO ALLOW SWING GATES TO OPEN A FULL 180° BACK AGAINST THE FENCE PER PLAN LAYOUT.

A GENERAL GATE AND FENCE NOTES NTS

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
2455 The Alameda
Santa Clara, CA 95050
tel: 408.985.7200
fax: 408.985.7260
www.VerdeDesigninc.com

STAMP

REGISTERED PROFESSIONAL ENGINEER
KEVIN CONWAY
No. C-56494
Signature
EXPIRATION DATE:
STATE OF CALIFORNIA

CONSULTANT

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APPL 01-XXXXXX
FILE XX-XX
AC _____ FLS _____ SS _____
DATE _____
DSA PROJECT TRACKING NO:
XXXX-XX

SHEET TITLE
CONSTRUCTION DETAILS

PROJECT NAME
COLLEGE PARK HIGH SCHOOL ATHLETIC FACILITY IMPROVEMENTS

PROJECT ADDRESS
201 VIKING DR
PLEASANT HILL, CA 94523

SUBMITTAL	DATE
50% DD SUBMITTAL	02/07/13
DSA SUBMITTAL	10/17/14

NO.	REVISIONS	DATE
1		
2		
3		
4		
5		
6		

DRAWN BY	CHECKED BY
HM	TW
DATE ISSUED: 10/17/14	SCALE: AS NOTED

PROJ. NO.
1209000-1209

SHEET NO.
D3.0 13 OF 44 SHEETS

CONSTRUCTION DETAILS

DRAWING NAME: L:\2012\1209000-1209 - College Park HS-Athletic Facility\CAD_DTL3-FENCE.dwg
PLOT DATE: 10-14-14 PLOTTED BY: station31

ALL IDEAS, DESIGNS, ARRANGEMENTS, AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY AND THE PROPERTY OF VERDE DESIGN, INC. AND WERE CREATED, EVOLVED, AND DEVELOPED FOR USE ON AND IN CONNECTION WITH THE SPECIFIED PROJECT. NONE OF SUCH IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL BE USED, REPRODUCED, OR PUBLISHED BY ANY METHOD, IN WHOLE OR IN PART, OR DISCLOSED TO ANY PERSON, FIRM, OR CORPORATION FOR ANY PURPOSE WHATSOEVER WITHOUT WRITTEN PERMISSION OF VERDE DESIGN, INC.

ELECTRICAL GENERAL NOTES

1. CONTRACTOR IS RESPONSIBLE TO OBTAIN A COMPLETE SET OF CONTRACT DOCUMENTS, ADDENDA, DRAWINGS, AND SPECIFICATIONS. PRIOR TO SUBMITTING PROPOSAL, CONTRACTOR SHALL EXAMINE ARCHITECTURAL, STRUCTURAL AND MECHANICAL CONSTRUCTION DRAWINGS AND SPECIFICATIONS AND SHALL HAVE VISITED THE CONSTRUCTION SITE. HE/SHE SHALL BE FAMILIAR WITH THE EXISTING CONDITIONS UNDER WHICH HE/SHE WILL HAVE TO OPERATE AND WHICH WILL IN ANY WAY AFFECT THE WORK UNDER THIS CONTRACT. NO SUBSEQUENT ALLOWANCE WILL BE MADE IN THIS CONNECTION IN BEHALF OF THE CONTRACTOR FOR ANY ERROR OR NEGLIGENCE ON HIS/HER PART. DETERMINE THE SEQUENCE OF CONSTRUCTION THROUGHOUT THE PROJECT, INCLUDING TEMPORARY FACILITIES AND CONNECTIONS REQUIRED FOR THE DURATION OF THE PROJECT.
2. ALL TEMPORARY CONNECTIONS SHALL BE CONSIDERED PART OF THIS CONTRACT AND NO EXTRA CHARGES WILL BE ALLOWED. THIS SHALL INCLUDE MINOR ITEMS OF MATERIAL OR EQUIPMENT NECESSARY TO MEET THE REQUIREMENTS AND INTENT OF THE PROJECT.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF PERSONS AND PROPERTY AND SHALL PROVIDE INSURANCE COVERAGE AS NECESSARY FOR LIABILITY, PERSONAL, AND PROPERTY DAMAGE, TO FULLY PROTECT THE OWNER, ARCHITECT, AND ENGINEER FROM ANY AND ALL CLAIMS RESULTING FROM THIS WORK.
4. THE CONTRACTOR SHALL PROVIDE TO THE ARCHITECT A CONSTRUCTION SCHEDULE OF ALL ELECTRICAL WORK. THE CONSTRUCTION SCHEDULE SHALL IDENTIFY ALL SIGNIFICANT MILESTONES WITH COMPLETION DATES.
5. THE CONTRACTOR SHALL MAINTAIN RECORD DRAWINGS AT THE PROJECT SITE INDICATING ALL MODIFICATIONS TO ELECTRICAL SYSTEMS. THE CONTRACTOR SHALL, AT THE CONCLUSION OF THE PROJECT, PROVIDE A SET OF REPRODUCIBLE (AUTOCAD), ACCURATE AND NEAT "AS-BUILT" DRAWINGS ACCEPTABLE TO THE ARCHITECT.
6. THESE DRAWINGS DO NOT REPRESENT THE EXACT LOCATIONS, SIZES OR EXTENT OF UTILITIES ON SITE. CONTRACTOR SHALL TAKE STANDARD PRECAUTIONS FOR WORK IN EXISTING FACILITIES.
7. EXISTING ELECTRICAL WIRING WHICH WILL NOT BE MADE OBSOLETE AND WHICH WILL BE DISTURBED DUE TO CONSTRUCTION CHANGES REQUIRED BY THIS CONTRACT SHALL BE RESTORED TO OPERATING CONDITION, AS REQUIRED AND/OR DIRECTED. WHERE REQUIRED, SHOWN AND/OR DIRECTED, OUTLETS AND CONDUIT RUNS SHALL BE RELOCATED. IN SOME CASES IT MAY BE NECESSARY TO EXTEND CONDUITS AND PULL IN NEW WIRING OR INSTALL JUNCTION BOXES AND SPLICE IN NEW WIRING OR REPLACE OLD WIRING WITH NEW.
8. CERTAIN REMODELING OF ELECTRICAL FACILITIES WILL BE REQUIRED IN THE EXISTING BUILDING. EXISTING CONDUIT RUNS ARE GENERALLY NOT SHOWN, ALTHOUGH A FULL ATTEMPT HAS BEEN MADE TO SHOW SOME EXISTING CONDITIONS, OF WHICH INFORMATION HAS BEEN TAKEN FROM EXISTING RECORD DRAWINGS AND/OR LIMITED FIELD INVESTIGATIONS. THE DRAWINGS SHOWING LOCATION OF EXISTING EQUIPMENT, OUTLETS, FIXTURES, ETC., ARE APPROXIMATE ONLY (CONTRACTOR TO FIELD VERIFY).
9. ALL ELECTRICAL MATERIALS AND EQUIPMENT SHALL BE NEW AND SHALL BE LISTED AND LABELED BY A NATIONALLY RECOGNIZED TESTING LABORATORY AND SHALL BE INSTALLED AS PER LISTING OR LABELING (IE. MAXIMUM FUSE SIZE MEANS FUSE PROTECTION IS REQUIRED).
10. ALL ELECTRICAL EQUIPMENT AND INSTALLATION SHALL COMPLY WITH THE FOLLOWING REQUIREMENTS:
    a. AMERICAN STANDARD ASSOCIATION (ASA)
    b. AMERICAN NATIONAL STANDARD INSTITUTE (ANSI)
    c. AMERICAN SOCIETY OF TESTING MATERIALS (ASTM)
    d. CALIFORNIA CODE OF REGULATIONS TITLE 24 (CCR)
    e. INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS (IEEE)
    f. INSULATED POWER CABLE ENGINEERS ASSOCIATIONS (IPCEA)
    g. NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATIONS (NEMA)
    h. NATIONAL FIRE PROTECTION AGENCY (NFPA)
    i. ALL LOCAL CODE HAVING JURISDICTION
11. CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS, FEES, AND INCIDENTAL COSTS NECESSARY FOR EXECUTION AND COMPLETION OF ELECTRICAL WORK, INCLUDING ALL CHARGES BY STATE, COUNTY AND LOCAL GOVERNMENTAL AGENCIES. CONTRACTOR SHALL BE RESPONSIBLE FOR THE ELECTRICAL UTILITY SYSTEM SHUT-DOWNS AND START-UP. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION REQUIRED WITH OTHER AGENCIES AND UTILITY COMPANIES.
12. CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL CROSSINGS ON NEW UTILITIES WITH THAT OF EXISTING ON SITE AND IN ADJACENT PROPERTIES. NOTIFY THE ENGINEER IMMEDIATELY OF ANY DEVIATIONS OR DISCREPANCIES FROM THIS PLAN.
13. CONTRACTOR SHALL COORDINATE HIS/HER WORK WITH OTHER TRADE ON SITE. ANY COST TO PERFORM WORK TO ACCOMPLISH SAID COORDINATION WHICH DIFFERS FROM THE WORK AS SHOWN ON THE DRAWINGS SHALL BE INCURRED BY THE CONTRACTOR. ANY DISCREPANCIES, AMBIGUITIES OR CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT DURING BID TIME FOR CLARIFICATIONS. ANY SUCH CONFLICTS NOT CLARIFIED PRIOR TO BID SHALL BE SUBJECT TO THE INTERPRETATION OF THE ARCHITECT/ENGINEER AT NO ADDITIONAL COST TO THE OWNER.
14. COORDINATE WITH OTHER TRADES AS TO THE EXACT LOCATION OF THEIR RESPECTIVE EQUIPMENT. PROVIDE POWER AND CONNECTION TO MOTORS AND EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS AS INDICATED ON ELECTRICAL DRAWINGS AND DRAWINGS OF OTHER TRADES. CONTRACTOR SHALL REVIEW DRAWINGS OF OTHER TRADES FOR CONTROL DIAGRAMS, SIZE AND LOCATION OF EQUIPMENT. DISCONNECT SWITCHES, STARTERS, AND CONDUITS FOR CONTROL WIRING FOR MECHANICAL AND PLUMBING EQUIPMENT SHALL BE PROVIDED BY ELECTRICAL CONTRACTOR. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING MANUFACTURER'S SHOP DRAWINGS PRIOR TO ROUGHING IN ALL CONDUITS TO THIS EQUIPMENT.
15. BEFORE ROUGH-IN, VERIFY ALL MOUNTING HEIGHTS AND EXACT LOCATIONS FOR ALL EQUIPMENT, ELECTRICAL CONNECTIONS, STUB-UPS, RECEPTACLES, OUTLETS, CONDUIT RUNS, ETC. WITH ARCHITECT AND OWNER. PLACE DEVICES LOCATED ABOVE COUNTERS, SHELVING, ETC. AND IN BATHROOMS SO AS NOT TO CONFLICT WITH EDGES OF WAINSCOTING, COUNTER SPLASH, SHELVING, ETC. ARCHITECTURAL DRAWINGS SHALL GOVERN. REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT LOCATIONS OF ELECTRICAL DEVICES
16. MOUNTING HEIGHTS OF ALL CONTROL DEVICES TO BE USED BY OCCUPANT OF THE ROOM OR AREA SHALL BE MOUNTED AT THE FOLLOWING HEIGHTS:
    RECEPTACLES OUTLETS : +18" (TO BOTTOM OF OUTLETS)
    TELEPHONE/TV/DATA OUTLETS : +18" (TO BOTTOM OF OUTLETS)
    LIGHT SWITCHES : +44" (TO HIGHEST OPERABLE PART)
    OUTLETS ABOVE COUNTER : +12" ABOVE COUNTER (TO BOTTOM OF OUTLETS)
    MOUNTING HEIGHTS OF ALL DEVICES AND EQUIPMENT ARE FROM FINISHED FLOOR TO LOCATION OF DEVICE AS NOTED. EQUIPMENT INSTALLED IN LOCATIONS NOT APPROVED BY THE ARCHITECT SHALL BE RELOCATED AS DIRECTED BY THE ARCHITECT AT NO ADDITIONAL COST TO THE OWNER.
17. COORDINATE ALL OUTLET BOX INSTALLATION WITH ARCHITECTURAL WALL FINISH SCHEDULES. SPACE BETWEEN FACEPLATE AND DEVICE BOX SHALL NOT EXCEED 1/8".
18. FOR RENOVATION WORK, THE CONTRACTOR SHALL CONCEAL ALL WORK WHERE POSSIBLE. ALL EXPOSED RACEWAY AND BOXES IN OCCUPIED AREAS OR ON EXTERIOR WALLS SHALL BE PAINTED TO MATCH ADJACENT FINISHES.
19. THE CONTRACTOR SHALL BE HELD FULLY RESPONSIBLE FOR THE PROPER RESTORATION OF ALL EXISTING SURFACES REQUIRING PATCHING, PLASTERING, PAINTING AND/OR OTHER REPAIR DUE TO THE INSTALLATION OF ELECTRICAL WORK UNDER THE TERMS OF THIS SPECIFICATION. CLOSE ALL OPENINGS, REPAIR ALL SURFACES, ETC., AS REQUIRED.
20. SEAL ALL CONDUIT PENETRATIONS THROUGH FIRE RATED WALLS AND CEILINGS. FURNISH AND INSTALL FIRE RATED BACKBOXES AS REQUIRED, MAINTAINING FIRE RATING OF CEILING OR WALLS WHERE RECESSED ELECTRIC EQUIPMENT SUCH AS LIGHT FIXTURES, SWITCHES, RECEPTACLES, PANEL, ETC. ARE INSTALLED IN RATED WALL OR CEILINGS. PENETRATIONS OF FIRE RATED WALLS, CEILINGS, OR FLOORS SHALL COMPLY WITH UBC CHAPTER 7 REQUIREMENTS. CONDUIT PENETRATIONS THAT ARE NOT STUBBED-OUT INSIDE THE WALL SHALL MEET F AND T RATING. ALL FIRE PROOFING METHOD SHALL BE UL APPROVED.
21. ALL EXTERIOR EQUIPMENT SHALL BE NEMA 3R RATED. ALL WALL PENETRATIONS TO EXTERIOR WALLS SHALL BE SEALED WATER TIGHT.
22. PULLING TAPES: ALL RACEWAY WITHOUT CABLE OR WIRE SHALL BE INSTALLED WITH A MINIMUM 110D LBS. STRENGTH TEST POLYESTER PULLING TAPE. PULLING TAPES SHALL BE DETECTABLE MULE-TAPE WITH SEQUENTIAL FOOTAGE MARKING.
23. RUN NO MORE THAN 3 CURRENT CARRYING CONDUCTORS IN ANY WIREWAY UNLESS DE-RATING IS APPROVED BY ENGINEER OR SHOWN ON DRAWINGS.
24. ALL BRANCH CIRCUIT CONDUCTORS SHALL BE COPPER, #12 AWG MINIMUM, RATED FOR 600V, THHN/THWN, 75 DEGREE CELSIUS. CONDUCTORS #12 AWG AND SMALLER SHALL BE SOLID. CONDUCTOR #10 AWG AND LARGER SHALL BE STRANDED. SYSTEM VOLTAGE SHALL BE IDENTIFIED AS TO VOLTAGE AND PHASE CONNECTIONS BY MEANS OF COLOR IMPREGNATED INSULATION OR APPROVED COLORED MARKING TAPE.
25. WHERE MULTI-HOMERUNS ARE INDICATED ON DRAWINGS INDICATING THE SAME CIRCUIT NUMBER, PROVIDE A JUNCTION BOX ABOVE THE ACCESSIBLE CEILING AND ROUTE ONE SET OF WIRES TO THE CIRCUIT BREAKER.
26. REFER TO THE SINGLE LINE DIAGRAM FOR THE CONDUIT AND CONDUCTOR SIZES HOMERUN TO ELECTRICAL PANELS. CONDUIT RUNS MAY NOT BE SHOWN ON DRAWINGS, BUT ARE PART OF THIS CONTRACT.
27. ALL CONDUIT RUNS INCLUDING STRAIGHT FEEDER AND BRANCH CIRCUIT SHALL BE PROVIDED WITH SUFFICIENT PULL BOXES OR JUNCTION BOXES TO LIMIT THE MAXIMUM LENGTH OF ANY SINGLE CABLE PULL TO 100 FEET. PULL BOXES SHALL BE SIZED PER CODE OR AS INDICATED ON DRAWINGS. LOCATIONS SHALL BE DETERMINED IN THE FIELD OR AS INDICATED ON THE DRAWINGS.
28. FINAL CONNECTIONS TO ALL EQUIPMENT SHALL BE PER MANUFACTURER'S APPROVED WIRING DIAGRAMS, DETAILS, AND INSTRUCTIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE MATERIAL AND EQUIPMENT COMPATIBLE WITH EQUIPMENT ACTUALLY SUPPLIED.
29. DO NOT COMBINE DIFFERENT SYSTEM VOLTAGES IN SAME CONDUIT (EG., 120/208V VS. 277/480V), UNLESS IS APPROVED BY ENGINEER OR SHOWN ON DRAWINGS.
30. ELECTRICAL SYSTEMS SHALL BE INSTALLED FOR FINAL INSPECTIONS. PROVIDE NEUTRAL TEST AND PROOF OF TORQUE DURING FINAL INSPECTION FOR ALL UNITS. FINAL TERMINATIONS OF CONDUCTORS TO ELECTRICAL EQUIPMENT AND DEVICES SHALL BE TORQUE WRENCH TIGHTENED TO THE MANUFACTURER'S RECOMMENDED SPECIFICATION, NO EXCEPTION.
31. CIRCUIT BREAKER TERMINALS IN SWITCHBOARDS AND LOAD CENTER SHALL BE UL LISTED AND APPROVED FOR USE COPPER 75 DEGREE CELSIUS CONDUCTORS.
32. SIZES OF BREAKERS, SWITCHES, FUSES AND FEEDERS ARE BASED ON DESIGNED EQUIPMENT SIZES. THESE SIZES SHALL BE ADJUSTED TO SATISFY REQUIREMENTS OF ACTUAL INSTALLED OR SUBSTITUTE EQUIPMENT. UP SIZING OR DOWNSIZING OF FEEDERS SHALL BE PROVIDED WITHOUT ADDITIONAL COST TO THE OWNER.
33. AS REQUIRED ALL OVERSIZED FEEDERS THAT WERE ADJUSTED IN SIZE TO COMPENSATE FOR VOLTAGE DROP SHALL BE PROVIDED WITH ADAPTER LUGS OR SPLICE BOX. ADAPTER LUGS SHALL BE PROVIDED IF SIZE IS AVAILABLE. OTHERWISE PROVIDE CABLE SPLICES IN THE SPLICE BOX TO REDUCE CABLES TO THE MAXIMUM SIZE THAT THE BREAKER LUGS CAN ACCOMMODATE.
34. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SAW-CUTTING, TRENCHING, BACKFILLING, COMPACTION AND PATCHING OF CONCRETE AND ASPHALT AS REQUIRED TO COMPLETE WORK. USE EXTREME CAUTION WHEN TRENCHING NEAR EXISTING UNDERGROUND UTILITY LINE. CONTRACTOR SHALL PROVIDE ALL REQUIRED CUTTING, PATCHING, PAINTING, AND REPAIRS NECESSARY TO RESTORE DAMAGED SURFACES TO EQUAL OR BETTER THAN ORIGINAL CONDITIONS EXISTING AT THE START OF WORK.
35. ALL ELECTRICAL EQUIPMENT SHALL BE BRACED OR ANCHORED TO RESIST HORIZONTAL FORCE ACTING IN ANY DIRECTION IN ACCORDANCE WITH THE REQUIREMENTS OF THE LATEST EDITION OF ASCE.
36. RIGID GALVANIZED STEEL CONDUIT SHALL BE USED FOR ALL EXTERIOR APPLICATIONS, ALL CONDUITS LARGER THAN 2" TRADE DIAMETER, AND ALL INDOOR CONDUITS BELOW EIGHT (8) FEET FROM FINISHED FLOOR.
37. ELECTRICAL METALLIC TUBING (EMT) IS ONLY ALLOWED IN INTERIOR LOCATION ABOVE EIGHT (8) FEET FROM FINISHED FLOOR AND WHEN ENTERING A PANEL FROM ABOVE.
38. CONNECTIONS TO VIBRATING EQUIPMENT (MOTOR, TRANSFORMER ENCLOSURE, ETC.) AND SEISMIC SEPARATIONS SHALL BE PROVIDED WITH LIQUID-TIGHT FLEXIBLE STEEL CONDUIT WITH WATERTIGHT CONNECTORS. MAXIMUM LENGTH OF CONDUIT SHALL BE SIX FEET, UNLESS OTHERWISE NOTED.
39. POLYVINYL CHLORIDE (PVC) SCHEDULE 40 MAY BE INSTALLED BENEATH SLAB AND UNDERGROUND INSTALLATION. INSTALL PVC COATED RIGID STEEL CONDUIT FOR TRANSITION FROM UNDERGROUND TO ABOVE GRADE INSTALLATION.
40. CONTRACTOR SHALL PROVIDE TERMINATIONS FOR ALL DATA/VOICE CABLES INDICATED AT OUTLET LOCATIONS INDICATED ON DRAWINGS.
41. CONTRACTOR SHALL PROVIDE AND INSTALL ACCESS PANELS IN NON-ACCESSIBLE CEILINGS WHERE REQUIRED TO ACCESS ELECTRICAL EQUIPMENT IN CEILING SPACE. ACCESS DOORS SHALL HAVE FIRE RATING EQUAL TO THE CEILING ASSEMBLY IN WHICH THEY ARE INSTALLED.
42. ALL FIRE LIFE SAFETY EQUIPMENT, SUCH AS FIRE ALARM CONTROL PANEL AND REMOTE POWER SUPPLIES SHALL BE PROVIDED WITH DEDICATED CIRCUITS. IDENTIFY CIRCUIT DESIGNATION AND PROVIDE PERMANENT LABELING, "FIRE ALARM CIRCUIT" ON ELECTRICAL PANEL. PROVIDE LOCKABLE CIRCUIT BREAKER.
43. CONTROL CONDUIT FOR ENERGY/BUILDING MANAGEMENT SYSTEM (E/BMS) SHALL BE PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR.
44. ROUTE CONDUIT PARALLEL AND PERPENDICULAR TO WALLS AND ADJACENT PIPING. ARRANGE CONDUIT TO MAINTAIN HEADROOM AND TO PRESENT A NEAT APPEARANCE.
45. WHEN A DISCREPANCY IN QUANTITY OR SIZE OF CONDUIT, WIRE, EQUIPMENT, CIRCUIT BREAKERS, ETC., ARISES ON THE DRAWINGS OR SPECIFICATIONS, CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING ALL MATERIAL REQUIRED BY THE MOST STRINGENT CONDITIONS NOTED ON THE DRAWINGS OR IN THE SPECIFICATIONS TO PROVIDE A COMPLETE AND OPERABLE SYSTEM, OR AS DIRECTED BY ENGINEER.
46. FOR SMALL AC MOTORS NOT HAVING BUILT-IN THERMAL OVERLOAD PROTECTION, PROVIDE MANUAL MOTOR STARTERS WITH OVERLOAD HEATER ELEMENTS SIZED PER MANUFACTURER'S RECOMMENDATION. FOR SMALL AC MOTORS WITH BUILT-IN THERMAL OVERLOAD PROTECTION, PROVIDE A HORSEPOWER RATED TOGGLE DISCONNECT SWITCH.
47. DISCONNECT SAFETY SWITCHES SHALL BE HEAVY DUTY AND BE RATED FOR THE NUMBER OF POLES, VOLTAGE, CURRENT AND HORSEPOWER RATING AS REQUIRED. PROVIDE FUSE PROTECTION BASED ON THE MOTOR NAMEPLATE RATINGS.
48. PROVIDE PERMANENT IDENTIFICATIONS (NAMEPLATES) FOR ALL ELECTRICAL PANELS, SWITCHBOARDS, MOTOR CONTROL CENTERS, DISCONNECT SWITCHES, TRANSFORMERS, TERMINAL CABINETS, ETC.
49. ELECTRICAL CONTRACTOR IS RESPONSIBLE TO VERIFY TYPE OF CEILING SYSTEMS AND TO FURNISH APPROVED LIGHTING FIXTURES OF THE TYPE REQUIRED FOR MOUNTING IN SUBJECT CEILING. PROVIDE ALL NECESSARY MOUNTING KIT/HARDWARE TO PROVIDE A COMPLETE WORKING LIGHTING SYSTEM.
50. ALL FINAL ELECTRICAL CONNECTIONS TO OWNER FURNISHED EQUIPMENT SHALL BE MADE BY THE ELECTRICAL CONTRACTOR.
51. ALL SPLICES AND TERMINALS SHALL BE COMPRESSION TYPE, OF SEAMLESS PURE COPPER, TIN PLATED, LONG BARREL, INSPECTION WINDOW, TERMINALS WITH TWO-HOLE PAD (WITH NEMA DRILLING). CLEAN ALL SURFACES AND INSTALL WITH OXIDE INHIBITING COMPOUND BURNDY PENETROX-E OR EQUAL. APPLY COMPOUND BETWEEN BUS BAR AND LUG PAD AND BETWEEN CONDUCTOR AND LUG BARREL. INSTALL COMPRESSION CONNECTORS WITH A FULLY CIRCUMFERENTIAL COMPRESSION DIE BURNDY HYPRESS OR EQUAL.
52. LABEL ALL CONDUIT WHERE IT BEGINS, AND WHERE IT TERMINATES INTO A BOX, PANEL, DEVICE, LOAD, OR DISCONNECT. CONDUIT SHALL BE LABELED EVERY 30 FEET OR LESS. CONDUIT SHALL BE LABELED WHERE IT PENETRATES ANY WALL OR FLOOR. LABEL SHALL BE PERMANENT PRINTED LABELS (DESCRIBING SOURCE, CIRCUIT, AND LOAD) LEGIBLE FROM FLOOR WHERE POSSIBLE (STANDING POSITION).
53. CONTRACTOR'S FAILURE TO ORDER OR RELEASE ORDER FOR MATERIALS AND/OR EQUIPMENT WILL NOT BE ACCEPTED AS A REASON TO SUBSTITUTE ALTERNATE MATERIALS, EQUIPMENT OR INSTALLATION METHODS.
54. PROVIDE ARC-FLASH HAZARD WARNING LABELS ON ALL EFFECTED ELECTRICAL EQUIPMENT, INCLUDING SWITCHBOARDS, PANEL BOARDS, INDUSTRIAL CONTROL PANELS, METER SOCKET ENCLOSURES, AND MOTOR CONTROL CENTERS. MARKING SHALL BE LOCATED SO AS TO BE CLEARLY VISIBLE TO QUALIFIED PERSONS. LABEL SHALL BE FACTORY PRE-PRINTED OR MACHINE-PRINTED SELF-ADHESIVE VINYL MATERIAL; UV, CHEMICAL, WATER, HEAT AND ABRASION RESISTANT; PRODUCED USING MATERIALS RECOGNIZED BY UL 969. MINIMUM SIZE: 3.5 BY 5 INCHES.

ELECTRICAL ABBREVIATIONS

A	AMPS
AC	ALTERNATING CURRENT
AF	AMP FRAME
AFF	ABOVE FINISH FLOOR
ALT	ALTERNATE
AT	AMP TRIP
AWG	AMERICAN WIRE GAUGE
BC	BARE COPPER
C	CONDUIT
CLG	CEILING
CKT	CIRCUIT
C.O.	CONDUIT ONLY
COMM	COMMUNICATION
DC	DOOR CONTACT
DSW	FUSED DISCONNECT SWITCH
<E>	EXISTING
ELEC	ELECTRICAL
EM	EMERGENCY
EMH	ELECTRICAL MAN-HOLE
<F>	FUTURE
FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
FATC	FIRE ALARM TERMINAL CABINET
FF	FINISH FLOOR
FT	FEET
G	GROUNDING CONDUCTOR
GFI	GROUND FAULT INTERRUPTER
GFP	GROUND FAULT PROTECTION
GND	GROUND
IDF	INTERMEDIATE DISTRIBUTION FRAME
INT	INTERIOR
INTLTS	INTERIOR LIGHTS
IPC	INTEGRATED POWER CENTER
IRR	IRRIGATION
KVA	KILOVOLT AMPS
LCP	LIGHTING CONTROL PANEL
LIU	LIGHTING GUIDE INTERCONNECTION UNIT
LSIG	LONG SHORT INSTANTANEOUS GROUND
LTG	LIGHTING
LTS	LIGHTS
MIC	MICROPHONE
MID	MODESTO IRRIGATION DISTRICT
MIN	MINIMUM
MSB	MAIN SWITCHBOARD
MM	MULTI MODE
MPOE	MAIN POINT OF ENTRY
<N>	**NEW (BOLD)**
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
P	POWER
PB	PULLBOX
PC	PATCH CORD
PH	PHONE
PD	PEDESTAL
PLTS	PATHWAY LIGHTING
PNL	PANEL
PPB	POWER PULLBOX
PRKLTS	PARKING LIGHTS
PWR	POWER
QUAN	QUANTITY
<R>	REMOVE
<RRN>	REMOVE AND REPLACE WITH NEW
RPS	REMOTE POWER SUPPLY
RR	RESTROOM
REC	RECEPTACLE
S	SIGNAL
SB	SCOREBOARD
SEC	SECURITY
SED	SEE ELECTRICAL DRAWINGS
SLD	SINGLE LINE DIAGRAM
SLTS	SPORTS FIELD LIGHTS
SPB	SIGNAL PULLBOX
SPK	SPEAKER
SS	SOUND SYSTEM
SWBD	SWITCHBOARD
T	TRIP
TB	TICKET BOOTH
TC	TIME CLOCK
TEL	TELECOM
TS	TIMING SYSTEM
TYP	TYPICAL
UG	UNDERGROUND
UON	UNLESS OTHERWISE NOTED
V	VOLTS
VOIP	VOICE OVER INTERNET PROTOCOL
W	WIRE, WATTS
W/	WITH
WAP	WIRELESS ACCESS POINT
WP	WEATHERPROOF
XFMR	TRANSFORMER

ELECTRICAL SYMBOLS

- DATA OUTLET, FLUSH MOUNT IN WALL
- TELEPHONE OUTLET, FLUSH MOUNT IN WALL
- $a — SINGLE POLE, SINGLE THROW SWITCH. LOWER CASE LETTER INDICATES CIRCUIT, LAMPS OR FAN CONTROLLED BY SWITCH
- DUPLEX RECEPTACLE 20A, 125V, 3WG, NEMA 5-20R
- GFI — DUPLEX GFI RECEPTACLE, ABOVE COUNTER SPLASH
- BRANCH CIRCUIT WIRING IN CONDUIT EXPOSED ON ROOF OR BUILDING EXTERIOR
- BRANCH CIRCUIT WIRING IN CONDUIT CONCEALED UNDER FLOOR OR UNDERGROUND
- BRANCH CIRCUIT HOME RUN TO PANEL. CONCEALED IN CEILING SPACE OR WHERE POSSIBLE
- CIRCUIT BREAKER
- #, (#) — REFERENCE SHEET NOTE
- 1 EX01 — DETAIL TAG. REFER TO DETAIL 1 ON SHEET E4.01
- ELECTRICAL PANEL
- DISCONNECT SWITCH
- PULLBOX, POWER OR COMMUNICATION
- PD# — TESCO PEDESTAL
- TRANSFORMER
- JUNCTION BOX
- FUSE
- G — GROUND WELL; CHRISTY G05T W/ 3/4"x10' COPPER GROUND ROD
- CONTACTOR
- EMERGENCY LIGHTS; LED WITH BATTERY BACKUP - POLE MOUNTED
- SPEAKER POLES
- S — SIREN, BOSCH MODEL #D117
- DC — DOOR CONTACT, BOSCH MODEL #ISN-CMET-200AR
- MD — MOTION DETECTOR, BOSCH MODEL #ZX835, WITH GIMBAL MOUNT #B328
- KP — KEYPAD, BOSCH MODEL #B930
- SPORTS FIELD LIGHT

SUMMARY OF WORK

ELECTRICAL WORK SHALL INCLUDE BUT SHALL NOT BE LIMITED TO:

1. PROVIDE POWER TO NEW SPORTS FIELD LIGHTING.
2. PROVIDE POWER CONNECTION TO CONCESSION/RESTROOM BUILDING.
3. PROVIDE SECURITY, DATA, PA SOUND AND CCTV SYSTEMS FOR CONCESSION/RESTROOM BUILDING AND CONNECT TO EXISTING CAMPUS SYSTEMS.

APPLICABLE CODES

UNLESS OTHERWISE INDICATED OR SPECIFIED, PERFORM THE WORK IN CONFORMANCE WITH THE LATEST EDITIONS OF ALL APPLICABLE REGULATORY REQUIREMENTS, INCLUDING, BUT NOT LIMITED TO, THE FOLLOWING:

1. CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE (PART 1, TITLE 24): 2013
2. CALIFORNIA BUILDING CODE (PART 2, TITLE 24): 2012 IBC WITH 2013 CA AMENDMENTS
3. CALIFORNIA ELECTRICAL CODE (PART 3, TITLE 24): 2011 NEC WITH 2013 CA AMENDMENTS
4. CALIFORNIA MECHANICAL CODE (PART 4, TITLE 24): 2012 UMC WITH 2013 CA AMENDMENTS
5. CALIFORNIA PLUMBING CODE (PART 5, TITLE 24) 2012 UPC WITH 2013 CA AMENDMENTS
6. CALIFORNIA ENERGY CODE (PART 6, TITLE 24): 2013
7. CALIFORNIA HISTORICAL BUILDING CODE, (PART 8, TITLE 24): 2013
8. CALIFORNIA FIRE CODE (PART 9, TITLE 24): 2012 IFC WITH 2013 CA AMENDMENTS
9. CALIFORNIA EXISTING BUILDING CODE (PART 10, TITLE 24): 2012 (INTERNATIONAL EXISTING BUILDING CODE WITH 2013 CA AMENDMENTS)
10. CALIFORNIA GREEN BUILDING STANDARDS CODE OR CAL GREEN (PART 11, TITLE 24): 2013
11. CALIFORNIA REFERENCED STANDARDS CODE (PART 12, TITLE 24): 2013
12. CALIFORNIA CODE OF REGULATIONS PUBLIC SAFETY (TITLE 19), STATE FIRE MARSHAL: 2013
13. 2013 NFPA 13 INSTALLATION OF SPRINKLER SYSTEMS
14. 2013 NFPA 14 INSTALLATION OF STANDPIPE, PRIVATE HYDRANT AND HOSE SYSTEMS
15. 2013 NFPA 17 DRY CHEMICAL EXTINGUISHING SYSTEM
16. 2013 NFPA 17A TO A UL 300 FOR CLASS I HOOD FIRE SUPPRESSION SYSTEM. (WET CHEMICAL EXTINGUISHING SYSTEMS)
17. 2013 NFPA 20 INSTALLATION OF STATIONARY PUMPS FOR FIRE PROTECTION
18. 2013 NFPA 22 WATER TANKS FOR PRIVATE FIRE PROTECTION
19. 2013 NFPA 24 INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES
20. 2008 NFPA 25 NSPECTION, TESTING, MAINTENANCE OF WATER-BASED FIRE PROTECTION SYSTEMS
21. 2013 NFPA 72 NATIONAL FIRE ALARM CODE, WITH CA AMENDMENTS
22. 2013 NFPA 80 FIRE DOORS AND OTHER OPENING PROTECTIVE
23. 2013 NFPA 110 EMERGENCY AND STANDBY POWER SYSTEMS
24. 2009 NFPA 170 STANDARD FOR FIRE SAFETY AND EMERGENCY SYMBOLS
25. 2012 NFPA 2001 CLEAN AGENT FIRE EXTINGUISHING SYSTEMS
26. 2012 ICC 300-07 STANDARD ON BLEACHERS, FOLDING AND TELESCOPIC SEATING AND GRANDSTANDS
27. SFM 12-10-1 POWER OPERATED EXIT DOORS
28. SFM 12-10-2 SINGLE POINT LATCHING OR LOCKING DEVICES
29. SFM 12-10-3 EMERGENCY EXIT & PANIC HARDWARE
30. ASTM STANDARD CHANGES (EXAMPLE: ASTM E648-04 STANDARD TEST METHOD FOR CRITICAL RADIANT FLUX OF FLOOR)
31. 1999 UL 38 MANUAL OPERATED SIGNAL BOXES, WITH REVISIONS 2005 AS AMENDED
32. 2006 UL 268 SMOKE DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS
33. 1998 UL 268A SMOKE DETECTORS DUCT APPLICATIONS WITH REVISIONS THROUGH OCTOBER 22 2003
34. 2005 UL 300 FIRE TESTING OF FIRE EXTINGUISHING SYSTEMS FOR PROTECTION OF RESTAURANT COOKING AREAS
35. 2007 UL 305 PANIC HARDWARE
36. 2003 UL 464 AUDIBLE SIGNAL APPLIANCES
37. 1999 UL 521 HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS
38. 2003 UL 864 CONTROL UNITS FOR FIRE PROTECTIVE SIGNALING SYSTEMS, WITH REVISIONS THROUGH JULY 14 2005

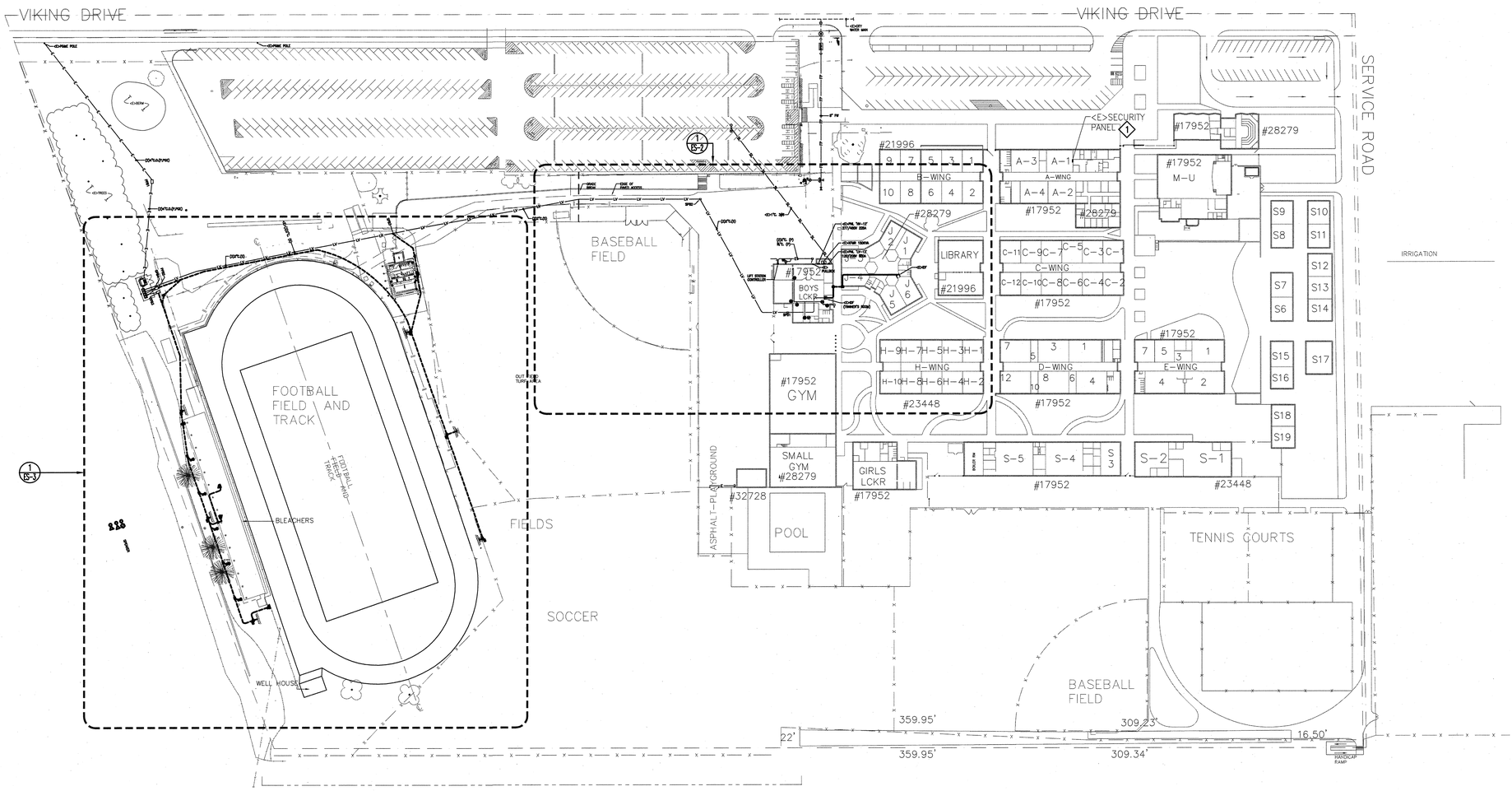
AMERICANS WITH DISABILITIES ACT (A.D.A.) FEDERAL ACCESSIBILITY STANDARDS
2011 ACI 318, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE
2010 AISC MANUAL OF STEEL CONSTRUCTION
ASCE/SEJ 7-10, MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES
NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION, 2005 ED.

ELECTRICAL DRAWING INDEX

SHEET NO.	DESCRIPTION
ES-0	ELECTRICAL GENERAL NOTES, SYMBOLS & ABBREVIATIONS
ES-1	ELECTRICAL SITE PLAN
ES-2	ELECTRICAL PARTIAL SITE PLAN

REFERENCE SHEET NOTES

1. NEW SECURITY DEVICES AT NEW CONCESSION BUILDING TO BE CONNECTED TO <E>SECURITY PANEL IN BUILDING A. UPDATE AND PROVIDE VOLTAGE DROP CALCULATIONS. PROVIDE AND INSTALL REMOTE POWER SUPPLY IF NECESSARY.



1 **SITE PLAN**
SCALE: 1" = 80' - 0"

0 80' 160'

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
2455 The Alameda
Santa Clara, CA 95050
tel: 408.985.7200
fax: 408.985.7260
www.VerdeDesigninc.com

STAMP

REGISTERED PROFESSIONAL ENGINEER JEFFRY GOATZ E18004 ELECTRICAL STATE OF CALIFORNIA

CONSULTANT

SALASO'BRIEN
expect a difference
305 South 11th Street
San Jose, California 95112-2218
408.282.1500 | 408.297.2995 (f)
salasobrien.com
Bozeman | Los Angeles | Monterey
Oakland | Orange County | Sacramento
San Diego | San Luis Obispo | Seattle

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APPL 01-XXXXXX
FILE XX-XX
AC _____ FLS _____ SS _____
DATE _____
DSA PROJECT TRACKING NO:
XXXX-XX

SHEET TITLE

ELECTRICAL SITE PLAN

PROJECT NAME

COLLEGE PARK HIGH SCHOOL STADIUM IMPROVEMENTS

PROJECT ADDRESS

201 VIKING DR
PLEASANT HILL, CA
94523

SUBMITTAL	DATE
PROGRESS SET	08/08/14
60% CD	08/13/14
DSA SUBMITTAL	10/24/14

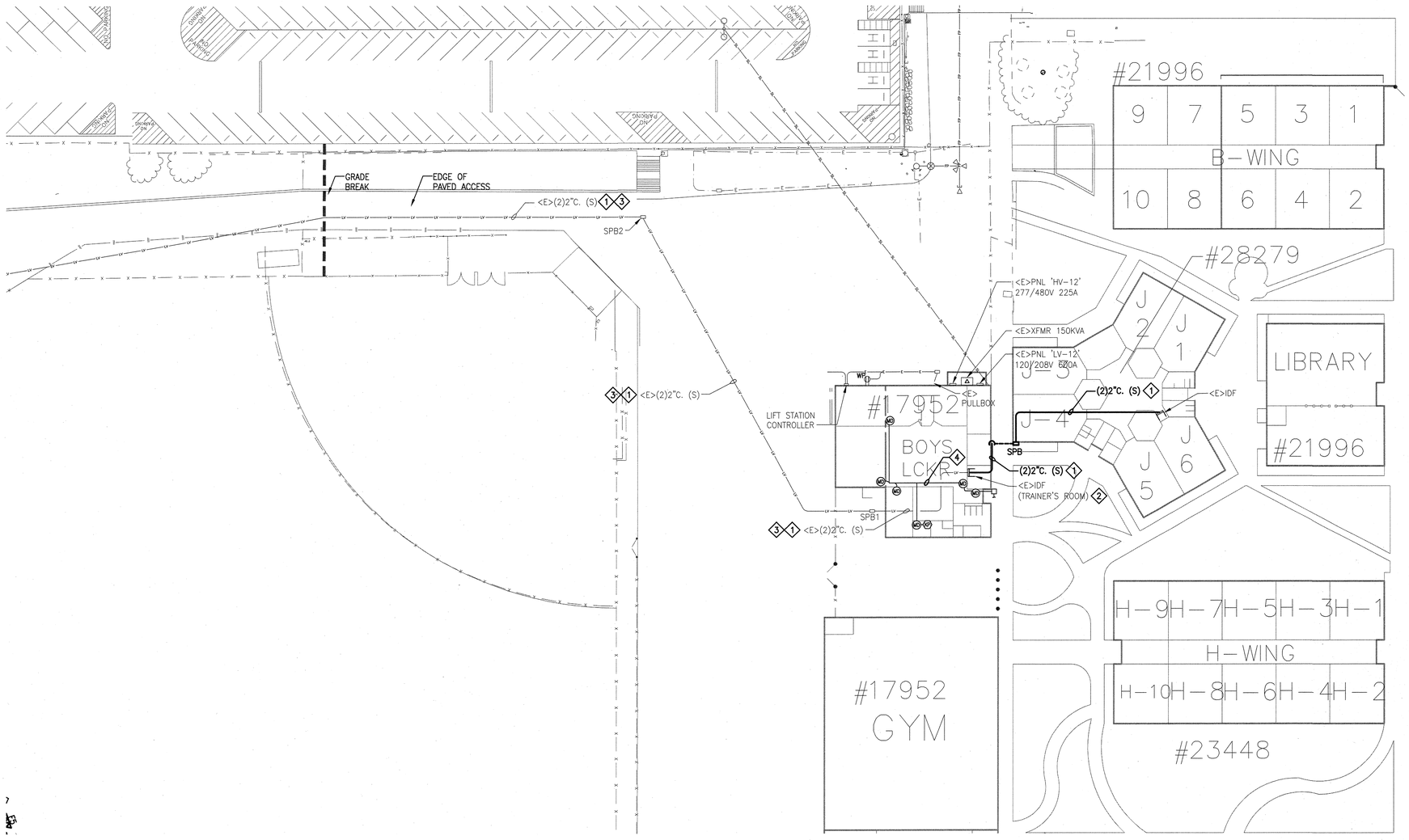
NO.	REVISIONS	DATE
1		
2		
3		
4		
5		
6		

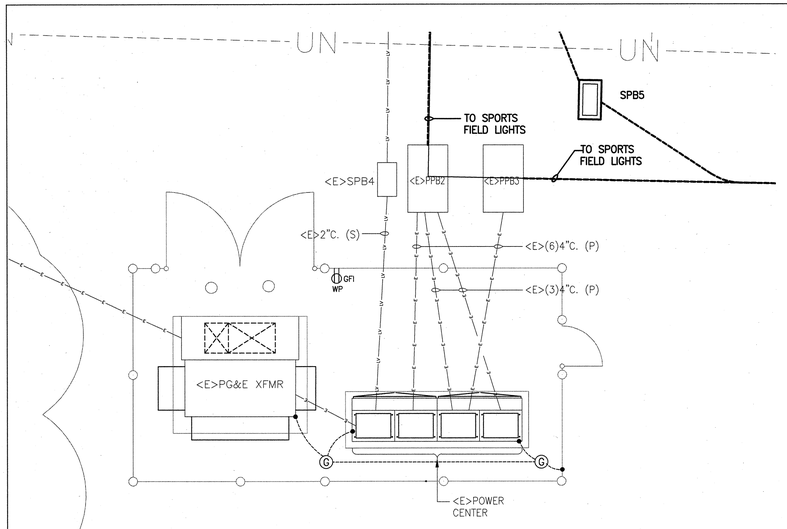
DRAWN BY	CHECKED BY
SOBE	
DATE ISSUED: 02/07/13	SCALE: AS NOTED
PROJ. NO.: 1209000-1209, SOBE #12351	
SHEET NO.: ES-1 OF - SHEETS	

ALL IDEAS, DESIGNS, ARRANGEMENTS, AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY AND THE PROPERTY OF VERDE DESIGN, INC. AND WERE CREATED, EVOLVED, AND DEVELOPED FOR USE ON AND IN CONNECTION WITH THE SPECIFIED PROJECT. NONE OF SUCH IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL BE USED, REPRODUCED, OR PUBLISHED BY ANY MEMBER, IN WHOLE OR IN PART, OR DISCLOSED TO ANY PERSON, FIRM, OR CORPORATION FOR ANY PURPOSE WHATSOEVER WITHOUT WRITTEN PERMISSION OF VERDE DESIGN, INC.

DRAWING NAME: K:\drawings\Verde Design\12351 College Park HS Athletic Field Improvements\12351ES-1.dwg
PLOT DATE: 10/24/2014 2:09:00 PM

ALL IDEAS, DESIGNS, ARRANGEMENTS, AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY AND THE PROPERTY OF VERDE DESIGN, INC. AND WERE CREATED, EVOLVED, AND DEVELOPED FOR USE ON AND IN CONNECTION WITH THE SPECIFIED PROJECT. NONE OF SUCH IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL BE USED, REPRODUCED, OR PUBLISHED BY ANY METHOD, IN WHOLE OR IN PART, OR DISCLOSED TO ANY PERSON, FIRM, OR CORPORATION FOR ANY PURPOSE WHATSOEVER WITHOUT WRITTEN PERMISSION OF VERDE DESIGN, INC.

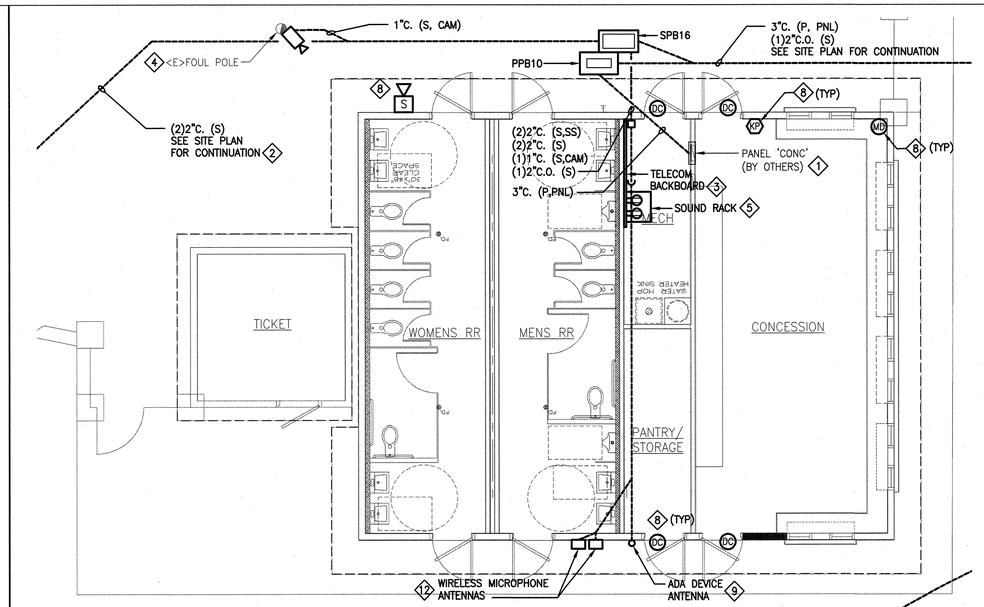

GRADE BREAK
EDGE OF PAVED ACCESS
<E>(2)2"C. (S) 1 3
SPB2
3 1 <E>(2)2"C. (S)
LIFT STATION CONTROLLER
#17952
BOYS LCKR
4
<E> PULLBOX
SPB
(2)2"C. (S) 1
<E>IDF (TRAINER'S ROOM) 2
SPB1
3 1 <E>(2)2"C. (S)
#17952 GYM
<E>PNL 'HV-12' 277/480V 225A
<E>XFMR 150KVA
<E>PNL 'LV-12' 120/208V 600A
(2)2"C. (S) 1
<E>IDF
#21996
9 7 5 3 1
B-WING
10 8 6 4 2
#28279
J 2
J 1
J 3
J-4
J 6
J 5
LIBRARY
#21996
H-9 H-7 H-5 H-3 H-1
H-WING
H-10 H-8 H-6 H-4 H-2
#23448
PARKING
PARKING
PARKING



3 ENLARGED PLAN - ELECTRICAL SWITCHBOARD

SCALE: 3/16" = 1' - 0"

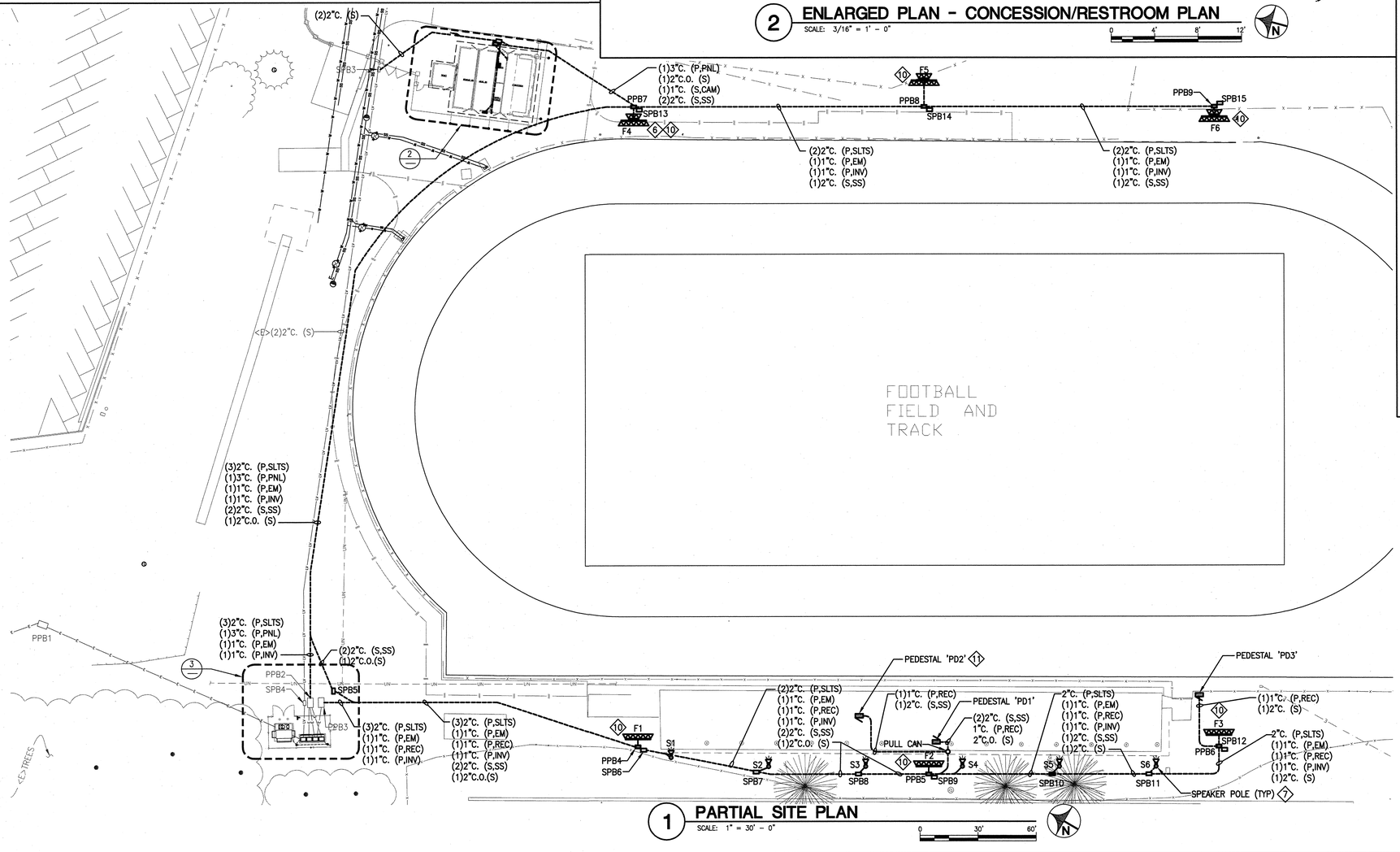
0 4' 8' 12'



2 ENLARGED PLAN - CONCESSION/RESTROOM PLAN

SCALE: 3/16" = 1' - 0"

0 4' 8' 12'



1 PARTIAL SITE PLAN

SCALE: 1" = 30' - 0"

0 30' 60'

GENERAL SHEET NOTES

A. ROUTING SHOWN IS DIAGRAMMATIC. CONTRACTOR SHALL COORDINATE ROUTING OF ELECTRICAL CONDUITS WITH OTHER UTILITIES. MARK PROPOSED CONDUIT ROUTE PRIOR TO LAYING CONDUITS ON THE GROUND.

B. PROTECT AND PROVIDE SEALS TO CONDUITS FROM CONSTRUCTION DEBRIS. CLEAN UP PULLBOXES AFTER COMPLETION OF WORK. ENSURE THAT PULLBOXES HAVE PROPER DRAINAGE. DUCT SEAL ALL CONDUIT AND PROVIDE MULE TAPE FOR ALL SPARE CONDUIT.

C. USE 3#10 AWG MINIMUM TO WIRE EACH RECEPTACLE OUTLET AND POWER CIRCUIT. USE 1" C. MINIMUM FOR POWER AND SIGNAL CONDUITS, U.O.N.

D. MARK ALL CONDUIT STUB-UP WITH PULLBOX.

E. ALL OUTDOOR RECEPTACLE OUTLETS SHALL BE GFCI AND BE PROVIDED WITH METAL, WEATHERPROOF, WHILE-IN-USE COVERS.

F. ALL WORK IS PART OF BASE BID, UNLESS OTHERWISE NOTED.

G. CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHILE TRENCHING FOR NEW UTILITIES. NOT ALL UTILITIES AND/OR OBSTRUCTIONS ARE SHOWN. CONTRACTOR SHALL VERIFY THE LOCATIONS OF UTILITIES PRIOR TO EXCAVATION, EITHER BY HAND EXCAVATION OR WITH THE ASSISTANCE OF A CERTIFIED UNDERGROUND UTILITY LOCATION SERVICE (USA WILL NOT LOCATE UTILITIES ON THE CAMPUS).

H. UNDERGROUND SIGNAL PULLBOX SHALL BE 17"x30" U.O.N. REFER TO ELECTRICAL DETAIL DRAWINGS.

I. UNDERGROUND POWER PULLBOX SHALL BE 17"X30" U.O.N. REFER TO ELECTRICAL DETAIL DRAWINGS.

REFERENCE SHEET NOTES

1. PROVIDE POWER TO CONCESSION RESTROOM BUILDING. CONNECTION TO BE MADE SUB-GRADE. NO EXPOSED CONDUIT ACCEPTABLE. COORDINATE STUB-UP WITH CONCESSION BUILDING SUPPLIER.
2. INSTALL CONDUIT AND INNERDUCT FROM EXISTING PULLBOX 'SPB3' TO CONCESSION BUILDING.
3. REFER TO TELECOM BACKBOARD DETAIL FOR SIZES AND QUANTITIES.
4. PROVIDE AND INSTALL SECURITY CAMERA. ROUTE OSP CAT6 BACK TO TELECOM SWITCH. MOUNT CAMERA ON EXISTING FOUL POLE AT 20 FEET ABOVE GROUND.
5. MOVABLE SOUND RACK. PROVIDE TWO DOUBLE DUPLEX DEDICATED RECEPTACLES. REFER TO SOUND SYSTEM DETAILS, SHEET ES-8.
6. PROVIDE AND INSTALL SECURITY CAMERA. ROUTE OSP CAT6 BACK TO TELECOM SWITCH. MOUNT CAMERA ON EXISTING SPORTS FIELD POLE AT 20 FEET ABOVE GROUND. REFER TO DETAIL 1/ES-5.
7. PROVIDE AND INSTALL SPEAKER ON SPEAKER POLE. REFER TO DETAIL 1/ES-7 FOR MOUNTING AND POLE FOUNDATION. ROUTE 1"C. FROM CLOSEST PULLBOX.
8. PROVIDE AND INSTALL SECURITY DEVICES. ALL JUNCTION BOXES SHALL BE RECESSED AT WALL, AND CONDUIT SHALL BE ROUTED INSIDE WALL.
9. PROVIDE PAINTED CONDUIT FOR ANTENNA. REFER TO MANUFACTURER'S INSTRUCTIONS. PROVIDE CONDUIT BACK TO SOUND RACK.
10. EXTEND 2"C. (P,SLTS), 1"C. (P,EM), 1"C. (P,INV), 2"C. (S) INTO SPORTS FIELD LIGHT POLE FROM CLOSEST PULL BOXES.
11. COORDINATE EXACT SPOT OF PEDESTAL WITH DISTRICT FOR ADA ACCESSIBILITY. REFER TO DETAIL 2/ES-7.
12. PROVIDE WEATHERPROOF BOX FOR ANTENNAS. PROVIDE CONDUIT BACK TO SOUND RACK.

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
2455 The Alameda
Santa Clara, CA 95050
tel: 408.985.7200
fax: 408.985.7260
www.VerdeDesignInc.com

STAMP

REGISTERED PROFESSIONAL ENGINEER JEFFREY GRAY C39004 ELECTRICAL STATE OF CALIFORNIA

CONSULTANT

SALAS O'BRIEN
expect a difference
305 South 11th Street
San Jose, California 95112-2218
408.282.1500 | 408.297.2995 (f)
salasobrien.com
Bozeman | Los Angeles | Monterey
Oakland | Orange County | Sacramento
San Diego | San Luis Obispo | Seattle

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APPL 01-XXXXXX
FILE XX-XX
AC _____ FLS _____ SS _____
DATE _____
DSA PROJECT TRACKING NO:
XXXX-XX

SHEET TITLE

ELECTRICAL
PARTIAL SITE PLAN

PROJECT NAME

COLLEGE PARK
HIGH SCHOOL
STADIUM
IMPROVEMENTS

PROJECT ADDRESS

201 VIKING DR
PLEASANT HILL, CA
94523

SUBMITTAL	DATE
PROGRESS SET	08/08/14
60% CD	08/13/14
DSA SUBMITTAL	10/24/14

NO.	REVISIONS	DATE

DRAWN BY	CHECKED BY
SOBE	
DATE ISSUED	SCALE
02/07/13	AS NOTED

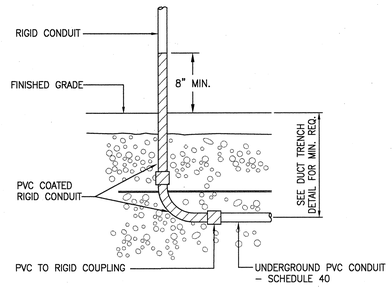
PROJ. NO.
1209000-1209, SOBE #12351

SHEET NO.
ES-3
OF - SHEETS

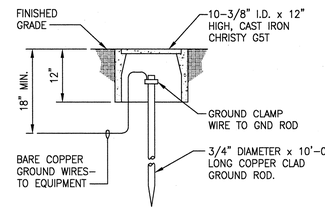
ALL IDEAS, DESIGNS, ARRANGEMENTS, AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY AND THE PROPERTY OF VERDE DESIGN, INC. AND WERE CREATED, EVOLVED, AND DEVELOPED FOR USE ON AND IN CONNECTION WITH THE SPECIFIED PROJECT. NONE OF SUCH IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL BE USED, REPRODUCED, OR PUBLISHED BY ANY METHOD, IN WHOLE OR IN PART, OR DISCLOSED TO ANY PERSON, FIRM, OR CORPORATION FOR ANY PURPOSE WHATSOEVER WITHOUT WRITTEN PERMISSION OF VERDE DESIGN, INC.

DRAWING NAME: K:\drawings\Verde Design\12351 College Park HS Athletic Field Improvements\12351ES-3.dwg

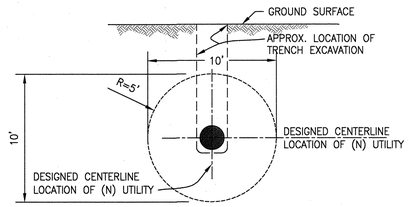
ALL IDEAS, DESIGNS, ARRANGEMENTS, AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY AND ARE THE PROPERTY OF VERDE DESIGN, INC. AND WERE CREATED, EVOLVED, AND DEVELOPED FOR USE ON AND IN CONNECTION WITH THE SPECIFIED PROJECT. NONE OF SUCH IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL BE USED, REPRODUCED, OR PUBLISHED BY ANY MEMBER, IN WHOLE OR IN PART, OR DISCLOSED TO ANY PERSON, FIRM, OR CORPORATION FOR ANY PURPOSE WHATSOEVER WITHOUT WRITTEN PERMISSION OF VERDE DESIGN, INC.



6 CONDUIT TRANSITION DETAIL
SCALE: N.T.S



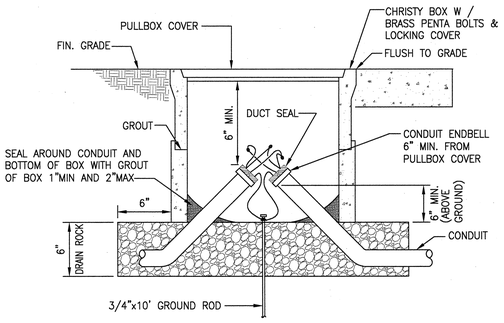
4 GROUNDING WELL
SCALE: N.T.S



NOTES:

1. ANY FIELD ADJUSTMENTS TO THE PROPOSED LOCATION OF (N) UTILITIES WITHIN A 5 FOOT RADIUS OF THE DESIGN CENTERLINE LOCATION SHALL BE DONE AT NO ADDITIONAL EXPENSE TO THE OWNER. ALL PROPOSED ADJUSTMENTS SHALL BE SUBJECT TO PRIOR APPROVAL OF THE OWNER. SHOULD THE OWNER AGREE THAT IT IS NECESSARY TO ADJUST THE DESIGN LOCATION OF THE (N) UTILITY TO A POSITION OUTSIDE THE ABOVE 5 FOOT RADIUS, SUCH ADJUSTMENT SHALL BE SUBJECT TO REVIEW AS AN ITEM OF EXTRA EXPENSE OR CREDIT.
2. IF IT IS NECESSARY TO RELOCATE (E) UTILITIES IN ORDER TO ALLOW THE (N) UTILITY TO BE INSTALLED WITHIN A 5 FOOT RADIUS OF ITS DESIGNED CENTERLINE, THEN SUCH RELOCATION OF (E) UTILITIES SHALL BE PAID FOR AS AN ITEM OF EXTRA EXPENSE BY THE CONTRACTOR. ANY SUCH RELOCATION SHALL BE SUBJECT TO PRIOR APPROVAL OF THE OWNER.
3. IN AREAS WHERE SHORING IS NOT REQUIRED AS PER SPECIFICATIONS, THE MAXIMUM DEPTH OF TRENCHING TO AVOID OBSTACLES WITHOUT ADDITIONAL COST SHALL BE 5' BELOW GRADE. IN AREAS WHERE SHORING IS REQUIRED TO MEET DESIGN GRADE, THE LINE MAY BE ADJUSTED AN ADDITIONAL 5' BELOW THAT SHOWN WITH NO INCREASE IN COST.

5 UTILITY ADJUSTMENT CRITERIA
SCALE: N.T.S.

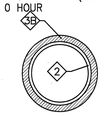


NOTES:

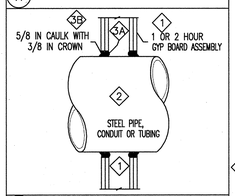
1. PROVIDE 12" SLACK OF WIRES FINISHED GRADE.
2. PROVIDE SPLICE WITH WATERPROOF AND OIL RESISTANT COATING.
3. PROVIDE DUCT SEAL TO INCOMING AND OUT GOING CONDUITS.
4. REFER TO TRENCHING DETAIL FOR DEPTH OF CONDUIT.
5. PROVIDE AND INSTALL (2) PENTA BOLTS FOR ALL PULLBOX COVERS. PROVIDE PENTAHEAD SOCKET TO OWNER

3 TYPICAL UNDERGROUND PULLBOX INSTALLATION
SCALE: N.T.S

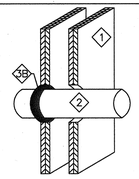
SYSTEM NO. W-L 1030
(FORMERLY SYSTEM NO. 471)
F RATINGS 1 AND 2 HR (SEE ITEM 1)
T RATING 0 HOUR



A PLAN VIEW



B SECTION VIEW



C ISOMETRIC VIEW

1. WALL ASSEMBLY–THE 1 OR 2 HR RATED GYPSUM WALLBOARD/STUD ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND TO THE MANNER SPECIFIED TO THE INDIVIDUAL U300 OR U400 SERIES WALL AND PARTITION DESIGNS IN THE UL FIRED RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:

   A. STUDS–WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF NORM. 2 BY 4 INCH LUMBER SPACED 16 IN. OC. STEEL STUDS TO BE MIN 2–1/2 IN WIDE AND SPACED MAX. 24 IN OC.

   B. WALLBOARD, GYPSUM* – 5/8 IN THICK, 4 FT WIDE WITH SQUARE OR TAPERED EDGES. THE GYPSUM WALLBOARD TYPE, THICKNESS, NUMBER OF LAYERS, FASTENER TYPE AND SHEET ORIENTATION SHALL BE AS SPECIFIED IN THE INDIVIDUAL U300 OR U400 SERIES DESIGN IN THE UL FIRE RESISTANCE DIRECTORY. MAX DIAM. OF OPENING IS 5 IN.

2. THROUGH PENETRANTS–ONE METALLIC PIPE, CONDUIT OR TUBING TO BE CENTERED WITHIN THE FIRESTOP SYSTEM. PIPE, CONDUIT OR TUBING TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES, CONDUIT OR TUBING MAY BE USED:

   A. STEEL PIPE–NOM. 6 IN DIAM. (OR SMALLER) SCHEDULE 5 (OR NEWER) STEEL PIPE.

   B. CONDUIT–NOM. 4 IN DIAM. (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING OR RIGID STEEL CONDUIT.

3. FIRESTOP SYSTEM–THE FIRESTOP SYSTEM SHALL CONSIST OF THE FOLLOWING;
   A. PACKING MATERIAL–(OPTIONAL)–NOM. 1/2 IN. DIAM. POLYURETHANE BACKER AND FRICTION FITTED INTO THE OPENING. PACKING MATERIAL TO BE RECESSED FROM BOTH SURFACES OF WALL AS REQUIRED TO ACCOMMODATE THE REQUIRED THICKNESS OF FILL MATERIAL.

   B. FILL, VELD OR CAVITY MATERIAL*–CAULK– FOR 2 HR FIRE–RATED ASSEMBLIES, MIN. 5/8 IN THICKNESS OF FILL MATERIAL APPLIED WITHIN ONNULUS ON BOTH SURFACES OF WALL. ADDITIONAL FILL MATERIAL TO BE INSTALLED SUCH THAT A MIN. 3/8 IN CROWN IS FORMED AROUND THE PENETRATING ITEM AND LAPPING 1 IN BEYOND THE PERIPHERY OF THE OPENING.

   NELSON FIRESTOP PRODUCTS–TYPE CLK N/S (NON–SAG) CAULK OR LBS SEALANT.

   *BEARING THE UL CLASSIFICATION MARKING

D UL SYSTEM No. W-L-1030 DESCRIPTION REQUIREMENT

UL THROUGH PENETRATION FIRESTOP SYSTEM W-L 1030 - CONDUIT THROUGH GYPSUM WALLBOARD F=1-2, T=0
SCALE: N.T.S.

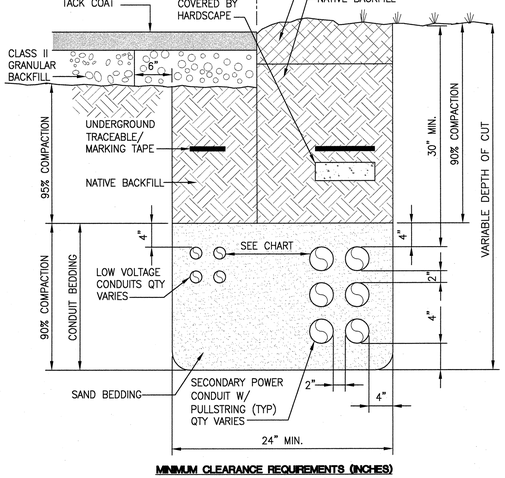
HARDSCAPE AREAS

RESURFACING TO MATCH <E>, APPLY TACK COAT

3" CONC. CAP WHERE NOT COVERED BY HARDSCAPE

SOFTSCAPE AREAS

4" TOP SOIL AND TURF REPAIR NATIVE BACKFILL



MINIMUM CLEARANCE REQUIREMENTS (INCHES)

	PC	SC	G	TEL	TV	LV	W
PRIMARY CONDUIT (OVER 600V) (PC)	–	8	36	36	36	36	36
SECONDARY POWER CONDUIT (SC)	8	–	12	12	12	12	36
GAS (G)	36	12	–	12	12	12	36
TELEPHONE (TEL)	36	12	12	–	2	2	36
CATV (TV)	36	12	12	2	–	2	36
OTHER LOW VOLTAGE (LV)	36	12	12	2	2	–	36
WET UTILITIES (W)	36	36	36	36	36	36	–

TABLE ONLY APPLIES TO CONDUITS AFTER THE UTILITY POINT OF CONNECTION.

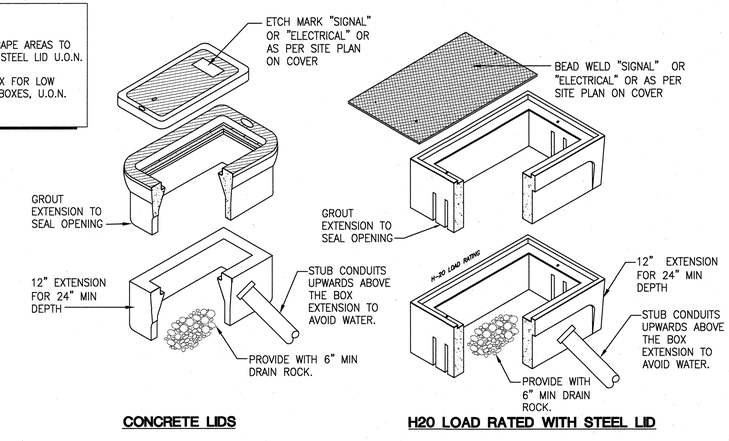
NOTES:

1. UTILITY OWNED AND END–USER CONDUITS AND TRENCH SHALL NOT BE COMBINED.
2. PROVIDE 12" SEPARATION WHEN CROSSING "WET" UTILITIES.

7 TRENCHING DETAIL - POWER & LOW VOLTAGE PATHWAY
SCALE: N.T.S.

NOTES:

1. ALL PULLBOXES IN HARDSCAPE AREAS TO BE H20 LOAD RATED WITH STEEL LID U.O.N.
2. PROVIDE SEPARATE PULLBOX FOR LOW VOLTAGE AND POWER PULLBOXES, U.O.N.



CONCRETE LIDS

H20 LOAD RATED WITH STEEL LID

1 PULLBOX DETAIL
SCALE: N.T.S

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
2455 The Alameda
Santa Clara, CA 95050
tel: 408.985.7200
fax: 408.985.7260
www.VerdeDesigninc.com

STAMP

REGISTERED PROFESSIONAL ENGINEER JEFFREY GRAY ELECTRICAL 019284 STATE OF CALIFORNIA

CONSULTANT

SALAS O'BRIEN
expect a difference
305 South 11th Street
San Jose, California 95112-2218
408.282.1500 | 408.297.2995 (f)
salasobrien.com
Bozeman | Los Angeles | Monterey
Oakland | Orange County | Sacramento
San Diego | San Luis Obispo | Seattle

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APPL 01-XXXXXX
FILE XX-XX
AC _____ FLS _____ SS _____
DATE _____
DSA PROJECT TRACKING NO:
XXXX-XX

SHEET TITLE

ELECTRICAL DETAILS

PROJECT NAME

COLLEGE PARK HIGH SCHOOL STADIUM IMPROVEMENTS

PROJECT ADDRESS

201 VIKING DR
PLEASANT HILL, CA
94523

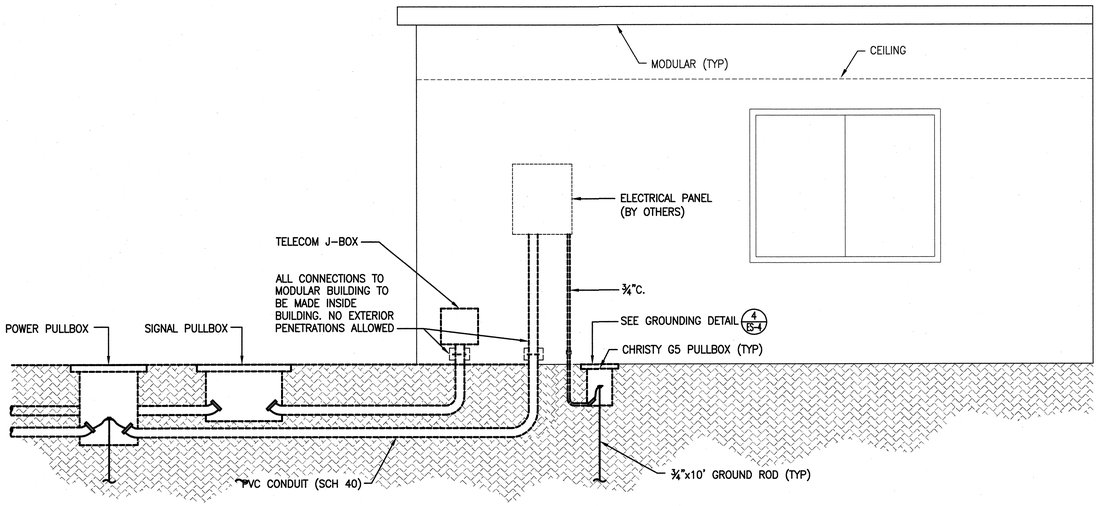
SUBMITTAL	DATE
PROGRESS SET	08/08/14
60% CD	08/13/14
DSA SUBMITTAL	10/24/14

NO.	REVISIONS	DATE
1		
2		
3		
4		
5		
6		

DRAWN BY	CHECKED BY
SOBE	
DATE ISSUED 02/07/13	SCALE AS NOTED
PROJ. NO. 1209000-1209, SOBE #12351	
SHEET NO. ES-4 OF - SHEETS	

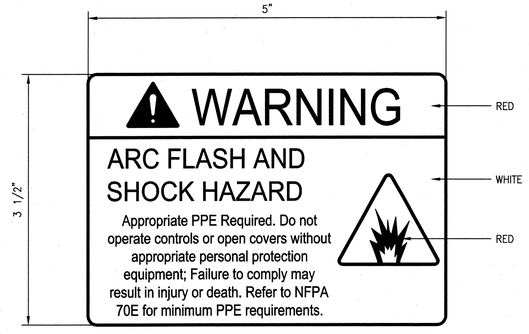
DRAWING NAME: K:\drawings\Verde Design\12351 College Park HS Athletic Field Improvements\12351ES-4.dwg
PLOT DATE: 10/24/14 PLOTTED BY: jeffrey.gray

ALL IDEAS, DESIGNS, ARRANGEMENTS, AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY AND THE PROPERTY OF VERDE DESIGN, INC. AND WERE CREATED, EVOLVED, AND DEVELOPED FOR USE ON AND IN CONNECTION WITH THE SPECIFIED PROJECT. NONE OF SUCH IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL BE USED, REPRODUCED, OR PUBLISHED BY ANY METHOD, IN WHOLE OR IN PART, OR DISCLOSED TO ANY PERSON, FIRM, OR CORPORATION FOR ANY PURPOSE WHATSOEVER WITHOUT WRITTEN PERMISSION OF VERDE DESIGN, INC.



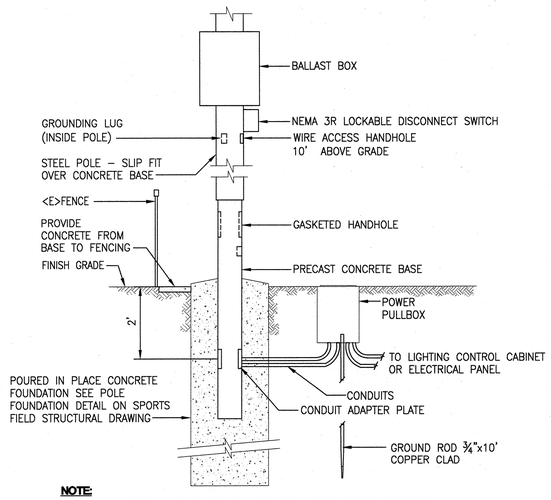
4 TYPICAL CONDUIT ROUTING @ BUILDING

SCALE: N.T.S.



3 ARC FLASH AND SHOCK HAZARD LABEL

SCALE: N.T.S.



NOTE:

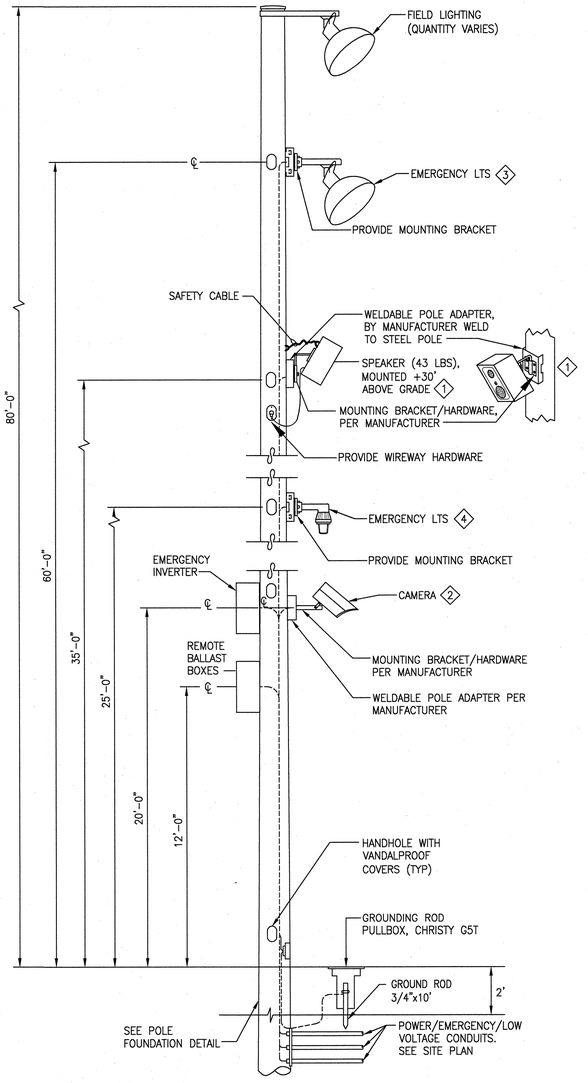
1. RUN #2/0 COPPER GROUND WIRE FROM GROUND ROD TO POLE GROUNDING LUG AND FOUNDATION.
2. TERMINATE ALL GROUND WIRES RUN WITH POWER CIRCUITS TO BALLAST BOX GROUNDING LUG.

2 SPORTS FIELD LIGHTING GROUNDING DETAIL

SCALE: N.T.S

REFERENCE DETAIL NOTES

1. MOUNT SPEAKERS ONLY TO SPORTS FIELD POLES F4, F5, AND F6.
2. MOUNT CAMERA ONLY TO SPORTS FIELD POLE F4.
3. COORDINATE WITH SPORTS FIELD LIGHTING MANUFACTURER TO PROVIDE EITHER BATTERY BACKED LED FIXTURES OR INVERTER POWERED FIXTURES.
4. PROVIDE FOUR EMERGENCY LIGHTING FIXTURES ON EACH POLE EQUIPPED WITH EMERGENCY POWER SUPPLY. EMERGENCY EGRESS LIGHTING SYSTEMS. (CONTACT PHONE # 818-519-1515)



NOTES:

1. ROUND TAPERED STEEL POLE, GALVANIZED, OR APPROVED EQUAL.
2. POLE DETAIL IS TYPICAL. CONTRACTOR SHALL REFER TO POLE/LIGHTING SUPPLIER FOR ANCHORING, BASE DETAILS AND ADDITIONAL INSTALLATION REQUIREMENTS. ADJUST FOUNDATION DESIGN TO MEET STRUCTURAL REQUIREMENTS AS NECESSARY.
3. MOUNT REMOTE BALLAST AT LEAST 12' ABOVE FINISHED GRADE.
4. CONTRACTOR TO PROVIDE AND INSTALL ALL MOUNTING ASSEMBLIES/ACCESSORIES TO MOUNT APPURTENANCES TO NEW POLE.
5. REFER TO SPECIFICATION FOR ADDITIONAL WORK.
6. REFER TO SITE PLAN FOR LOCATION.
7. COORDINATE MOUNTING AND INSTALLATION REQUIREMENTS OF SPEAKERS W/SOUND SYSTEM SUPPLIERS.
8. SPEAKER TO BE ATTACHED WITH SAFETY CABLE AND ONE 1/2" EYE BOLT WELDED TO SPEAKER POLE AND ONE ATTACHED TO SPEAKER.

1 SPORTS FIELD LIGHTING POLE

SCALE: N.T.S

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
2455 The Alameda
Santa Clara, CA 95050
tel: 408.985.7200
fax: 408.985.7260
www.VerdeDesigninc.com

STAMP

REGISTERED PROFESSIONAL ENGINEER "JEFFRY BORTZ" 20004 ELECTRICAL STATE OF CALIFORNIA

CONSULTANT

SALASO'BRIEN
expect a difference
305 South 11th Street
San Jose, California 95112-2218
408.282.1500 | 408.297.2995 (f)
salasobrien.com
Bozeman | Los Angeles | Monterey
Oakland | Orange County | Sacramento
San Diego | San Luis Obispo | Seattle

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APPL 01-XXXXXX
FILE XX-XX
AC _____ FLS _____ SS _____
DATE _____
DSA PROJECT TRACKING NO:
XXXX-XX

SHEET TITLE

ELECTRICAL DETAILS

PROJECT NAME

COLLEGE PARK HIGH SCHOOL STADIUM IMPROVEMENTS

PROJECT ADDRESS

201 VIKING DR
PLEASANT HILL, CA
94523

SUBMITTAL	DATE
PROGRESS SET	08/08/14
60% CD	08/13/14
DSA SUBMITTAL	10/24/14

NO.	REVISIONS	DATE
1		
2		
3		
4		
5		
6		

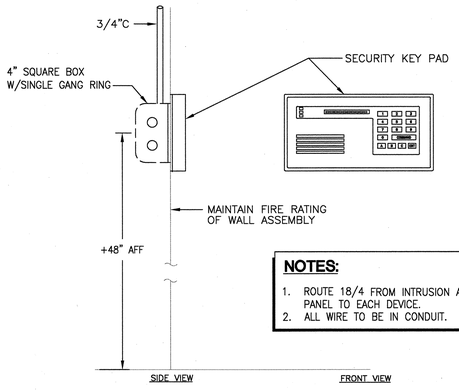
DRAWN BY	CHECKED BY
SOBE	
DATE ISSUED	SCALE
02/07/13	AS NOTED

PROJ. NO.
1209000-1209, SOBE #12351

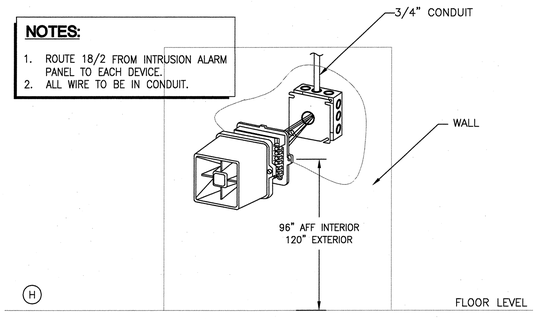
SHEET NO.
ES-5
OF - SHEETS

DRAWING NAME: K:\drawings\Verde Design\12351 College Park HS Athletic Field Improvements\12351ES-5.dwg

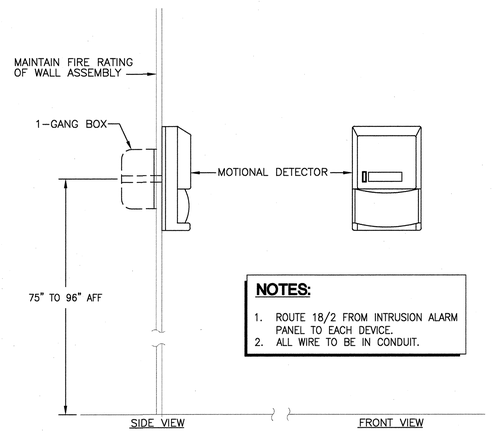
ALL IDEAS, DESIGNS, ARRANGEMENTS, AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY AND THE PROPERTY OF VERDE DESIGN, INC. AND WERE CREATED, EVOLVED, AND DEVELOPED FOR USE ON AND IN CONNECTION WITH THE SPECIFIED PROJECT. NONE OF SUCH IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL BE USED, REPRODUCED, OR PUBLISHED BY ANY MEDIUM, IN WHOLE OR IN PART, OR DISCLOSED TO ANY PERSON, FIRM, OR CORPORATION FOR ANY PURPOSE WHATSOEVER WITHOUT WRITTEN PERMISSION OF VERDE DESIGN, INC.



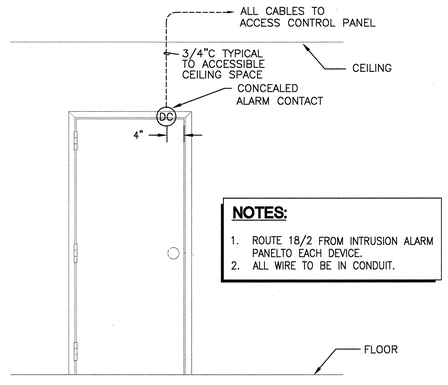
6 TYPICAL KEYPAD MOUNT
SCALE: N.T.S.



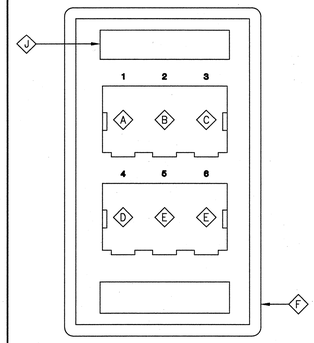
5 TYPICAL SIREN WALL MOUNT
SCALE: N.T.S.



4 TYPICAL MOTION DETECTOR WALL MOUNT
SCALE: N.T.S.



3 SINGLE DOOR W/ ALARM CONTACT
SCALE: N.T.S.



LEGENDS:

- A RJ45 CAT6 MODULAR CONNECTOR – BLUE
- B RJ45 CAT6 MODULAR CONNECTOR – ORANGE
- C RJ45 CAT6 MODULAR CONNECTOR – GREEN
- D RJ45 CAT6 MODULAR CONNECTOR – IVORY
- E RJ6 COAX F-TYPE MODULE – WHITE
- F 6-POSITION FACEPLATE – WHITE
  6-POSITION ANGLED FACEPLATE.
- J **LABELING SCHEME:**

OUTLET NUMBER

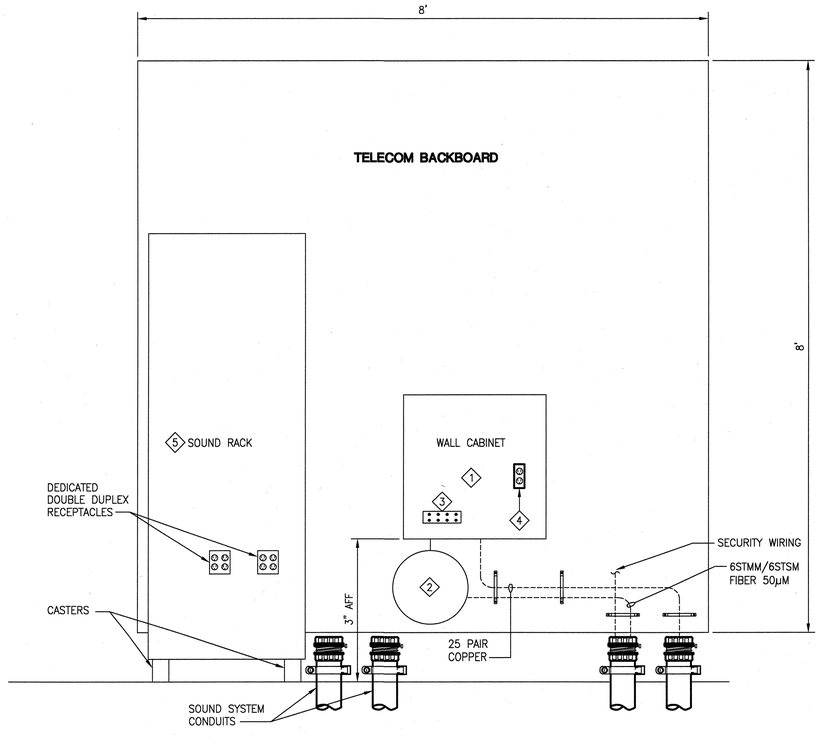
-ZZZ

SYMBOL: ▽

2 6-POSITION WALL MOUNTED FACEPLATE CONFIGURATION DETAIL
SCALE: N.T.S.

REFERENCE NOTES:

1. DAMAC WALL CABINET (OR EQUAL) HOUSE CAT6 PATCH PANEL, SWITCH, COPPER TERMINATION BLOCK, AND FIBER LIU.
2. FIBER SPOOL.
3. DEDICATED 20 AMP DUPLEX POWER OUTLET, ISOLATED GROUND.
4. 4"Wx12"Lx1/4" MIN. COPPER GROUND BUS BAR. PROVIDE STANDOFFS. ROUTE GROUNDING CONDUCTOR BACK TO BUILDING GROUNDING SYSTEM. GROUND ALL TELECOM EQUIPMENT TO BUS BAR.
5. REFER TO SHEET ES-8 AND SPECIFICATIONS FOR SOUND SYSTEM REQUIREMENTS.



1 TELECOM BACKBOARD DETAIL
SCALE: N.T.S.

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
2455 The Alameda
Santa Clara, CA 95050
tel: 408.985.7200
fax: 408.985.7260
www.VerdeDesigninc.com

STAMP

REGISTERED PROFESSIONAL ENGINEER JEFFREY ROAT 21604 ELECTRICAL STATE OF CALIFORNIA

CONSULTANT

SALASO'BRIEN
expect a difference
305 South 11th Street
San Jose, California 95112-2218
408.282.1500 | 408.297.2995 (f)
salasobrien.com
Bozeman | Los Angeles | Monterey
Oakland | Orange County | Sacramento
San Diego | San Luis Obispo | Seattle

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APPL 01-XXXXXX
FILE XX-XX
AC _____ FLS _____ SS _____
DATE _____
DSA PROJECT TRACKING NO.:
XXXX-XX

SHEET TITLE
ELECTRICAL DETAILS

PROJECT NAME
COLLEGE PARK HIGH SCHOOL STADIUM IMPROVEMENTS

PROJECT ADDRESS
201 VIKING DR
PLEASANT HILL, CA
94523

SUBMITTAL	DATE
PROGRESS SET	08/08/14
60% CD	08/13/14
DSA SUBMITTAL	10/24/14

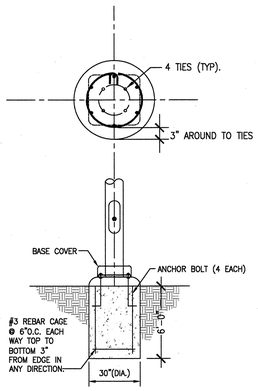
NO.	REVISIONS	DATE
1		
2		
3		
4		
5		
6		

DRAWN BY	CHECKED BY
SOBE	
DATE ISSUED	SCALE
02/07/13	AS NOTED

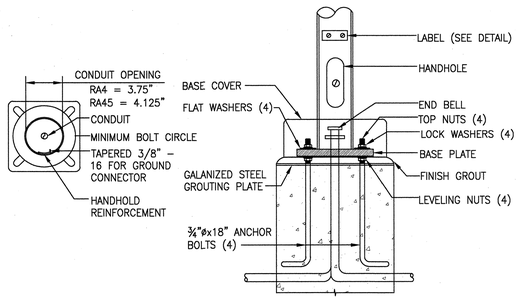
PROJ. NO.
1209000-1209, SOBE #12351

SHEET NO.
ES-6
OF - SHEETS

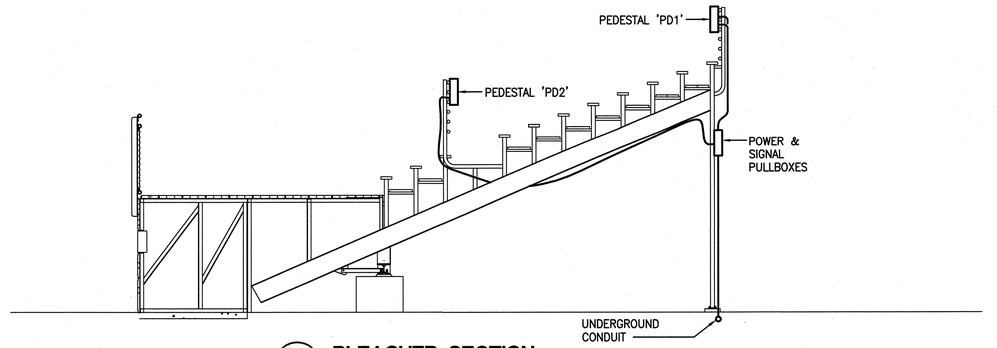
ALL IDEAS, DESIGNS, ARRANGEMENTS, AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY AND THE PROPERTY OF VERDE DESIGN, INC. AND WERE CREATED, EVOLVED, AND DEVELOPED FOR USE ON AND IN CONNECTION WITH THE SPECIFIED PROJECT. NONE OF SUCH IDEAS, DESIGNS, ARRANGEMENTS, OR PLANS SHALL BE USED, REPRODUCED, OR PUBLISHED BY ANY METHOD, IN WHOLE OR IN PART, OR DISCLOSED TO ANY PERSON, FIRM, OR CORPORATION FOR ANY PURPOSE WHATSOEVER WITHOUT WRITTEN PERMISSION OF VERDE DESIGN, INC.



7 FOUNDATION DETAIL
SCALE:



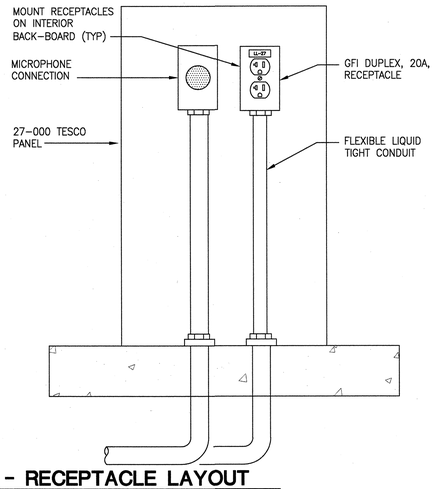
6 TYPICAL ANCHOR BOLT AND BASEPLATE DETAILS
SCALE:



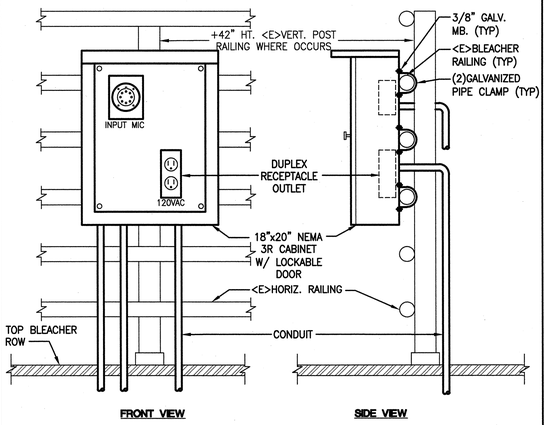
2 BLEACHER SECTION
SCALE:

NOTE:

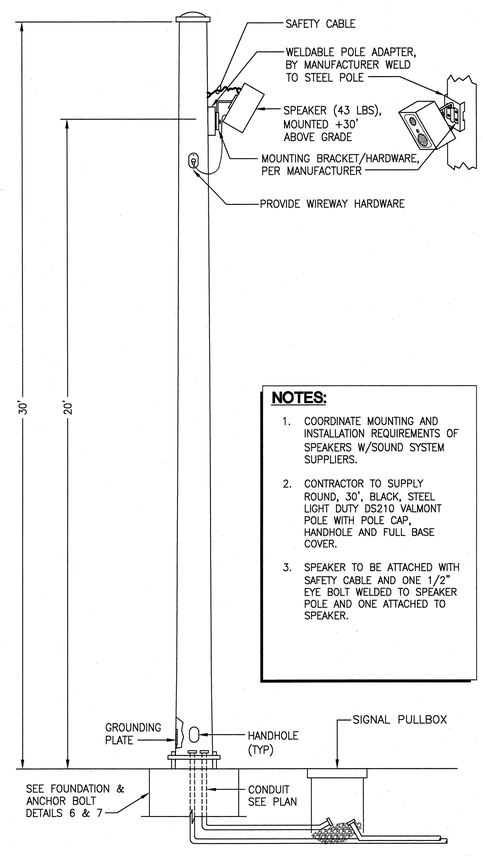
1. REFER TO SITE PLAN FOR QUANTITY OF CONDUITS.



5 PEDESTAL 'PD3' - RECEPTACLE LAYOUT
SCALE: N.T.S.



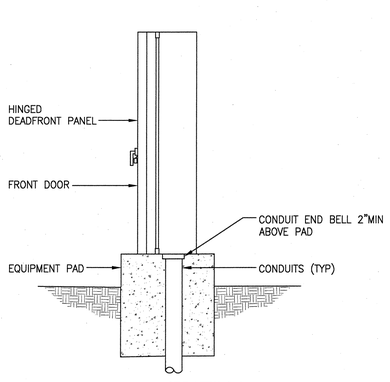
4 PEDESTAL 'PD1' & 'PD2'
SCALE:



NOTES:

1. COORDINATE MOUNTING AND INSTALLATION REQUIREMENTS OF SPEAKERS W/SOUND SYSTEM SUPPLIERS.
2. CONTRACTOR TO SUPPLY ROUND, 30', BLACK, STEEL LIGHT DUTY DS210 VALMONT POLE WITH POLE CAP, HANDHOLE AND FULL BASE COVER.
3. SPEAKER TO BE ATTACHED WITH SAFETY CABLE AND ONE 1/2" EYE BOLT WELDED TO SPEAKER POLE AND ONE ATTACHED TO SPEAKER.

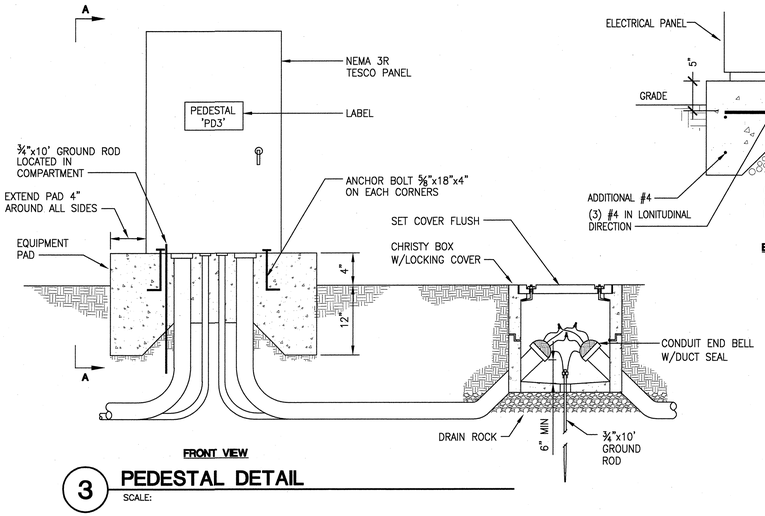
1 SPEAKER POLE DETAIL
SCALE: N.T.S.



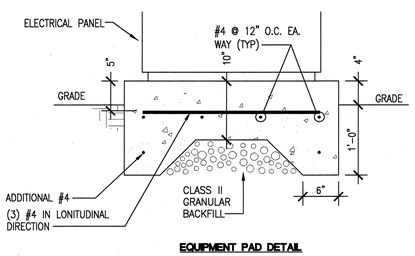
SIDE VIEW A-A

NOTE:

1. PROVIDE DUCT SEAL TO ALL INCOMING AND OUTGOING CONDUITS.
2. FOR LIGHTING CONTROL PANEL PROVIDE TESCO 24–200.
3. FOR CONTROL AND POWER PEDASTAL PROVIDE TESCO PANEL MODEL 27–000.



3 PEDESTAL DETAIL
SCALE:



EQUIPMENT PAD DETAIL

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
2455 The Alameda
Santa Clara, CA 95050
tel: 408.985.7200
fax: 408.985.7260
www.VerdeDesigninc.com

STAMP

CONSULTANT

SALASO'BRIEN
expect a difference
305 South 11th Street
San Jose, California 95112-2218
408.282.1500 | 408.297.2995 (f)
salasobrien.com
Bozeman | Los Angeles | Monterey
Oakland | Orange County | Sacramento
San Diego | San Luis Obispo | Seattle

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APPL 01-XXXXXX
FILE XX-XX
AC_____ FLS_____ SS_____
DATE _____
DSA PROJECT TRACKING NO:
XXXX-XX

SHEET TITLE
ELECTRICAL DETAILS

PROJECT NAME
COLLEGE PARK HIGH SCHOOL STADIUM IMPROVEMENTS

PROJECT ADDRESS
201 VIKING DR
PLEASANT HILL, CA
94523

SUBMITTAL	DATE
PROGRESS SET	08/08/14
60% CD	08/13/14
DSA SUBMITTAL	10/24/14

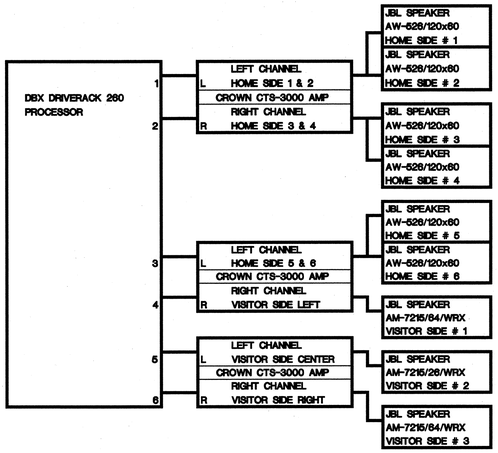
NO.	REVISIONS	DATE

DRAWN BY	CHECKED BY
SOBE	
DATE ISSUED	SCALE
02/07/13	AS NOTED

PROJ. NO.
1209000-1209, SOBE #12351

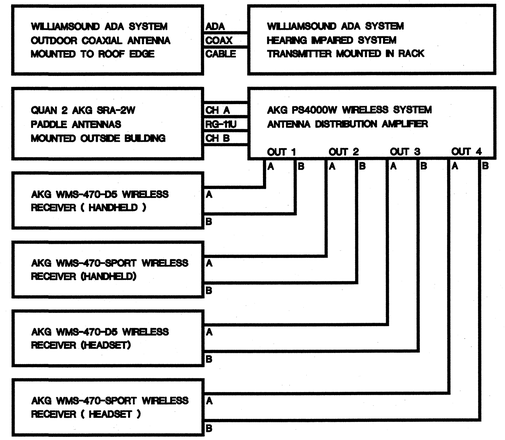
SHEET NO.
ES-7
OF - SHEETS

ALL IDEAS, DESIGNS, ARRANGEMENTS, AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY AND THE PROPERTY OF VERDE DESIGN, INC. AND WERE CREATED, EVOLVED, AND DEVELOPED FOR USE ON AND IN CONNECTION WITH THE SPECIFIED PROJECT. NONE OF SUCH IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL BE USED, REPRODUCED, OR PUBLISHED BY ANY METHOD, IN WHOLE OR IN PART, OR DISCLOSED TO ANY PERSON, FIRM, OR CORPORATION FOR ANY PURPOSE WHATSOEVER WITHOUT WRITTEN PERMISSION OF VERDE DESIGN, INC.



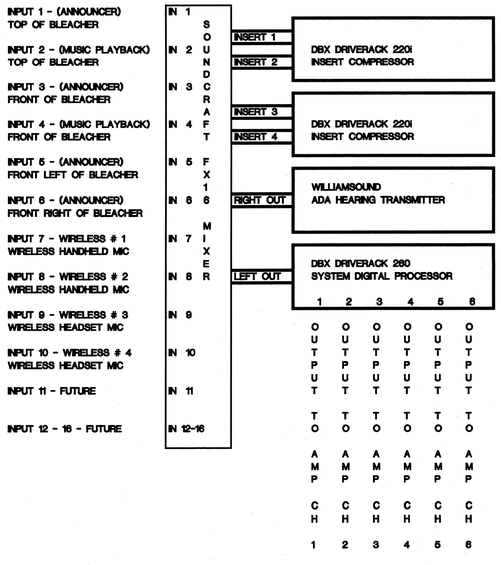
4 AMPLIFIER SYSTEM FLOWCHART

SCALE:



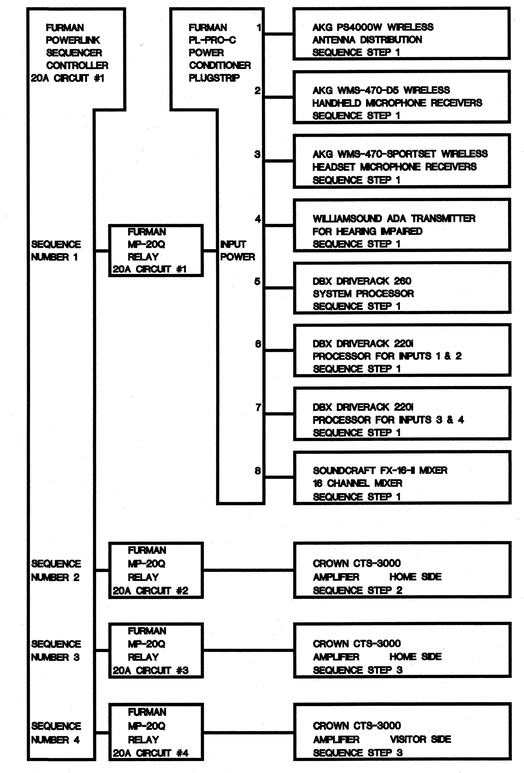
2 WIRELESS SYSTEM FLOWCHART

SCALE: N.T.S.



3 DIGITAL PROCESSOR FLOWCHART

SCALE:



1 POWER SEQUENCING FLOWCHART

SCALE: N.T.S.

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
2455 The Alameda
Santa Clara, CA 95050
tel: 408.985.7200
fax: 408.985.7260
www.VerdeDesigninc.com

STAMP

REGISTERED PROFESSIONAL ENGINEER JEFFRY BOYAT 23026 ELECTRICAL STATE OF CALIFORNIA

CONSULTANT

SALAS O'BRIEN
expect a difference
305 South 11th Street
San Jose, California 95112-2218
408.282.1500 | 408.297.2995 (f)
salasobrien.com
Bozeman | Los Angeles | Monterey
Oakland | Orange County | Sacramento
San Diego | San Luis Obispo | Seattle

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APPL 01-XXXXXX
FILE XX-XX
AC _____ FLS _____ SS _____
DATE _____
DSA PROJECT TRACKING NO:
XXXX-XX

SHEET TITLE

ELECTRICAL
SOUND SYSTEM
DETAILS

PROJECT NAME

COLLEGE PARK
HIGH SCHOOL
STADIUM
IMPROVEMENTS

PROJECT ADDRESS

201 VIKING DR
PLEASANT HILL, CA
94523

SUBMITTAL	DATE
PROGRESS SET	08/08/14
60% CD	08/13/14
DSA SUBMITTAL	10/24/14

NO.	REVISIONS	DATE

DRAWN BY	CHECKED BY
SOBE	
DATE ISSUED	SCALE
02/07/13	AS NOTED

PROJ. NO.
1209000-1209, SOBE #12351

SHEET NO.
ES-8
OF - SHEETS

DRAWING NAME: K:\dronetree\Verde Design\1235\ College Park HS Athletic Field Improvements\1235ES-8.dwg

ALL IDEAS, DESIGNS, ARRANGEMENTS, AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY AND THE PROPERTY OF VERDE DESIGN, INC. AND WERE CREATED, EVOLVED, AND DEVELOPED FOR USE ON AND IN CONNECTION WITH THE SPECIFIED PROJECT. NONE OF SUCH IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL BE USED, REPRODUCED, OR PUBLISHED BY ANY METHOD, IN WHOLE OR IN PART, OR DISCLOSED TO ANY PERSON, FIRM, OR CORPORATION FOR ANY PURPOSE WHATSOEVER WITHOUT WRITTEN PERMISSION OF VERDE DESIGN, INC.

REFERENCE SHEET NOTES

1. ROUTE LIGHTING CIRCUIT VIA LIGHTING CONTROL PANEL 'LCP'-1.
2. UPDATE PANEL DIRECTORY.
3. MOUNT SPORTS FIELD LIGHTING CONTROL INSIDE 'LCP-1'. PROVIDE ALL NECESSARY EQUIPMENT FOR MOUNTING CONTROLS AND ANTENNA PER MANUFACTURER'S INSTRUCTIONS.
4. COORDINATE WITH SPORTS FIELD LIGHTING MANUFACTURER TO PROVIDE EITHER BATTERY BACKED LED FIXTURES OR INVERTER POWERED FIXTURES.
5. SHARE CONDUIT WITH CONDUCTORS GOING TO SAME LIGHT POLE.

GENERAL SHEET NOTES

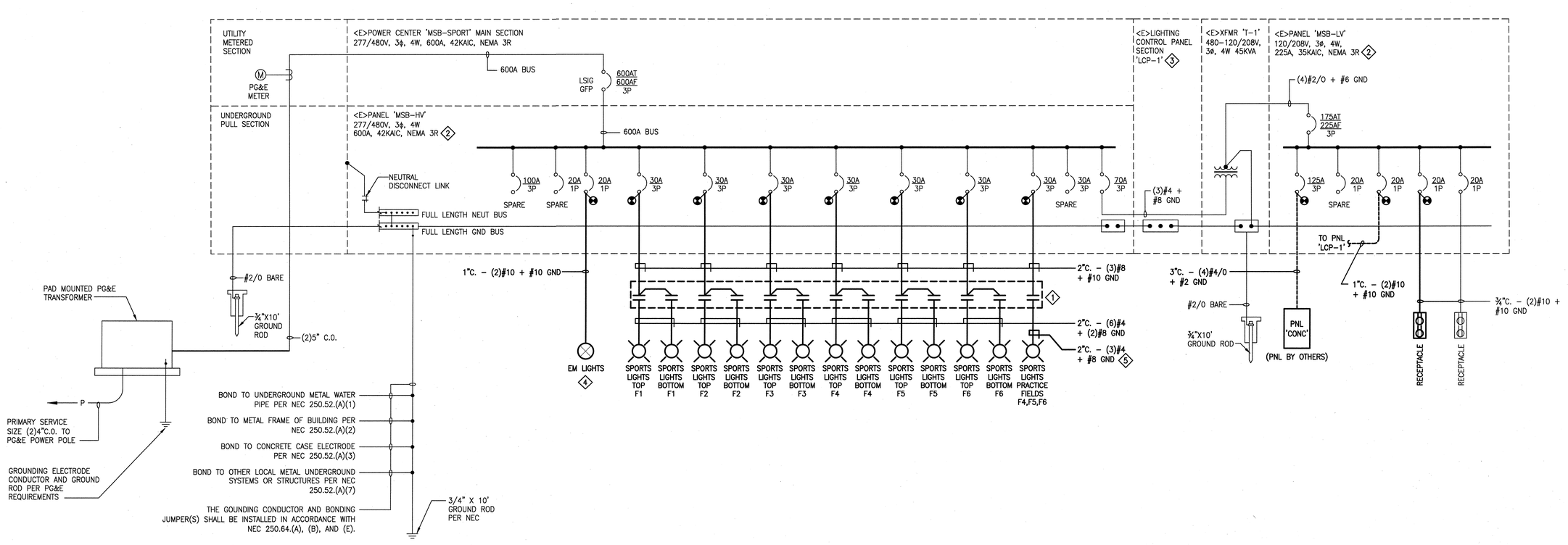
A. CONDUCTORS SHALL BE 600V. RATED WITH THHN/THWN INSULATION AT 75 DEGREE CELSIUS. DESIGN OF FEEDERS IS BASED ON COPPER. ALUMINUM IS NOT ACCEPTABLE.

B. CIRCUIT BREAKER TERMINALS IN SWITCHBOARDS AND LOADCENTER SHALL BE U.L. LISTED AND APPROVED FOR USE COPPER 75 DEGREE CELSIUS CONDUCTORS.

C. FINAL TERMINATIONS OF CONDUCTORS TO ELECTRICAL EQUIPMENT AND DEVICES SHALL BE TORQUE WRENCH TIGHTENED TO THE MANUFACTURER'S RECOMMENDED SPECIFICATION, NO EXCEPTION. PROVIDE NEUTRAL TEST AND PROOF OF TORQUE DURING FINAL INSPECTION FOR ALL UNITS.

D. SIZES OF BREAKERS, SWITCHES, FUSES AND FEEDERS ARE BASED ON DESIGNED EQUIPMENT SIZES. THESE SIZES SHALL BE ADJUSTED TO SATISFY REQUIREMENTS OF ACTUAL INSTALLED OR SUBSTITUTE EQUIPMENT. UP SIZING OR DOWNSIZING OF FEEDERS SHALL BE PROVIDED WITHOUT ADDITIONAL COST TO THE OWNER.

E. AS REQUIRED ALL OVERSIZED FEEDERS THAT WERE ADJUSTED IN SIZE TO COMPENSATE FOR VOLTAGE DROP SHALL BE PROVIDED WITH ADAPTER LUGS OR SPLICE BOX. ADAPTER LUGS SHALL BE PROVIDED IF SIZE IS AVAILABLE. OTHERWISE PROVIDE CABLE SPLICES IN THE SPLICE BOX TO REDUCE CABLES TO THE MAXIMUM SIZE THAT THE BREAKER LUGS CAN ACCOMMODATE.



1 SINGLE LINE DIAGRAM

SCALE: SCHEMATIC

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
2455 The Alameda
Santa Clara, CA 95050
tel: 408.985.7200
fax: 408.985.7260
www.VerdeDesigninc.com

STAMP

REGISTERED PROFESSIONAL ENGINEER — JEFFRY GOETZ — ELECTRICAL — STATE OF CALIFORNIA

CONSULTANT

SALASO'BRIEN
expect a difference
305 South 11th Street
San Jose, California 95112-2218
408.282.1500 | 408.297.2995 (f)
salasobrien.com
Bozeman | Los Angeles | Monterey
Oakland | Orange County | Sacramento
San Diego | San Luis Obispo | Seattle

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APPL 01-XXXXXX
FILE XX-XX
AC _____ FLS _____ SS _____
DATE _____

DSA PROJECT TRACKING NO:
XXXX-XX

SHEET TITLE
ELECTRICAL SINGLE LINE DIAGRAM

PROJECT NAME
COLLEGE PARK HIGH SCHOOL STADIUM IMPROVEMENTS

PROJECT ADDRESS
201 VIKING DR
PLEASANT HILL, CA
94523

SUBMITTAL	DATE
PROGRESS SET	08/08/14
60% CD	08/13/14
DSA SUBMITTAL	10/24/14

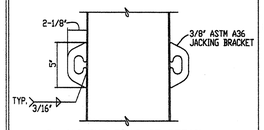
NO.	REVISIONS	DATE
1		
2		
3		
4		
5		
6		

DRAWN BY	CHECKED BY
SOBE	
DATE ISSUED	SCALE
02/07/13	AS NOTED

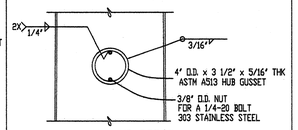
PROJ. NO.
1209000-1209, SOBE #12351

SHEET NO.
ES-9
OF - SHEETS

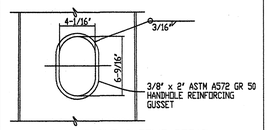
DRAWING NAME: K:\drawings\Verde Design\12351 College Park HS Athletic Field Improvements\12351ES-9.dwg
PLOT DATE: 10-24-14 PLOTTED BY: william sanguiz



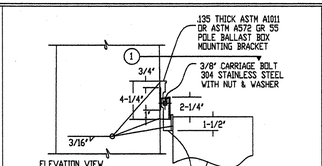
A JACKING BRACKET DETAIL
N.T.S. DSA-3RDSHEET_T



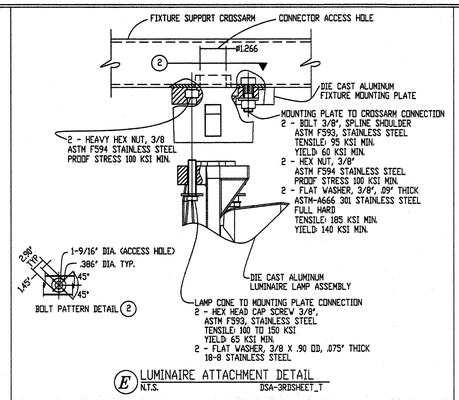
B HUB DETAIL
N.T.S. DSA-3RDSHEET_T



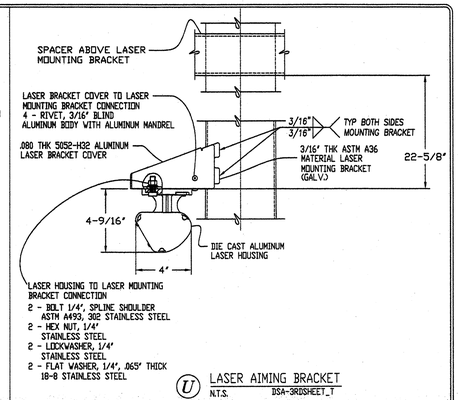
C HANDHOLE SLEEVE DETAIL
N.T.S. DSA-3RDSHEET_T



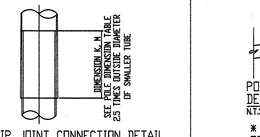
D MOUNTING BRACKET DETAIL
N.T.S. DSA-3RDSHEET_T



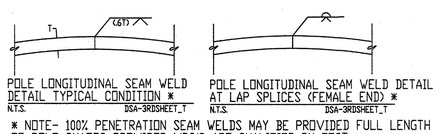
E LUMINAIRE ATTACHMENT DETAIL
N.T.S. DSA-3RDSHEET_T



U LASER AIMING BRACKET
N.T.S. DSA-3RDSHEET_T

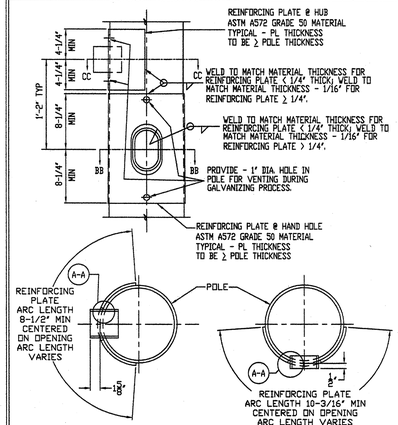


G SLIP JOINT CONNECTION DETAIL
N.T.S. DSA-3RDSHEET_T

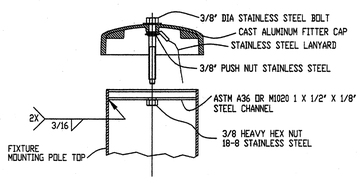


N.T.S. DSA-3RDSHEET_T

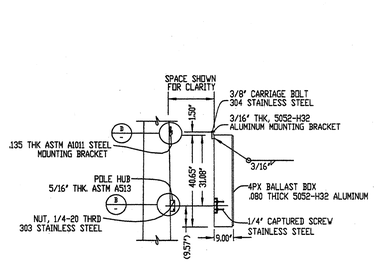
* NOTE- 100% PENETRATION SEAM WELDS MAY BE PROVIDED FULL LENGTH OF POLE SHAFTS PROVIDED WPS'S ARE QUALIFIED BY TEST.



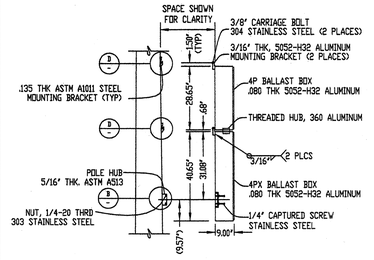
H HANDHOLE/HUB REINFORCING GUSSET
N.T.S. DSA-3RDSHEET_T



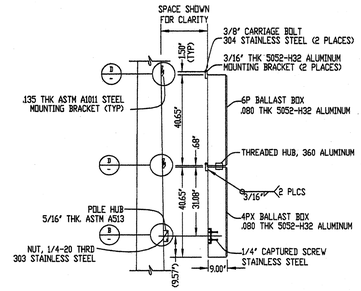
F FITTER CAP DETAIL
N.T.S. DSA-3RDSHEET_T



4PX
O BALLAST BOX CONNECTION DETAIL
N.T.S. DSA-4PX_D



4P/4PX
Q BALLAST BOX CONNECTION DETAIL
N.T.S. DSA-4P4PX_D



6P/4PX
R BALLAST BOX CONNECTION DETAIL
N.T.S. DSA-6P4PX_D

Information contained herein is the confidential property of Musco Sports Lighting LLC. Reproduction, distribution, or use of this information other than its limited, intended purpose, as it applies to this project, without express written permission is prohibited.

Musco products referenced or shown are protected by one or more of the following patents. U.S. Patents: 4947303; 4994718; 5075828; 5134557; 5161883; 5211473; 5229681; 5377611; 5398478; 5423281; 5426577; 5600537; 5794387; 5856721; 6036336; 6203176; 6250596; 6340790; 6398392; 6681110; 6833675; 6929385; 6969034; 6988697; 7059572; D337168; D353797; D353911; D411096. Other patents pending.

DSA-3RDSHEET_T

College Park HS
FIELD LIGHTING
Pleasant Hill, CA

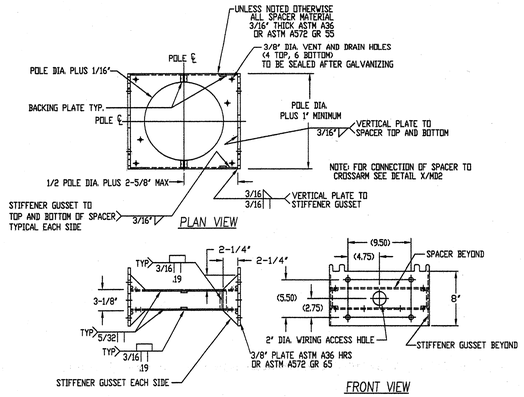
R.L. FOLEY & ASSOC., INC.
25652 ASHBY WAY
LAKE FOREST, CALIFORNIA 92630
TELEPHONE NUMBER: 949-581-5212
FAX NUMBER: 949-581-3212

REGISTERED PROFESSIONAL ENGINEER RICHARD L. FOLEY S 2407 7/1/14 STRUCTURAL STATE OF CALIFORNIA
Expires 06/30/15

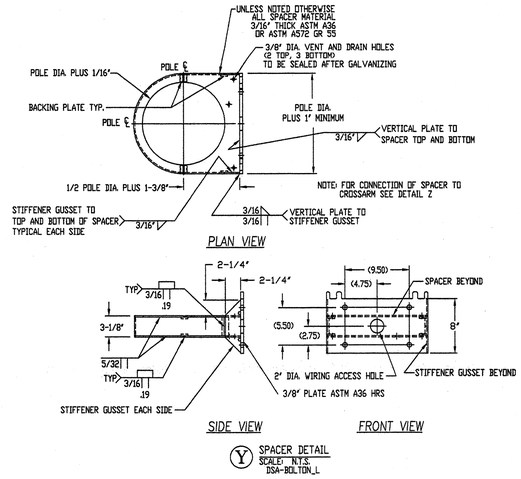
CORPORATE OFFICE:
P.O. Box 808
100 1st Avenue West
Oskaloosa, Iowa 52577
800/825-6020

DRAWING TITLE: DETAILS
SCALE: SEE PLAN
REVISIONS
REFERENCE:

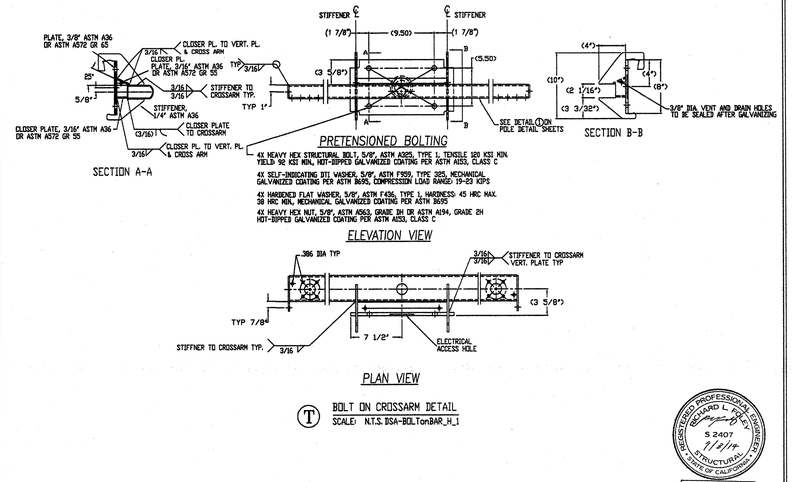
PROJECT NO. 124145
DATE: 09/03/14
DRAWN BY: TLN
DRAWING NO. 3 OF 5 MD1



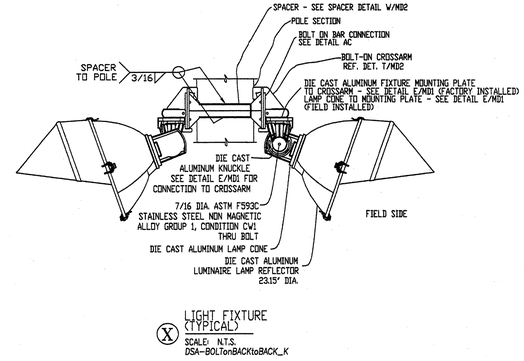
Ⓦ SPACER DETAIL
SCALE: N.T.S.
DSA-BOLTonBACKtoBACK_K



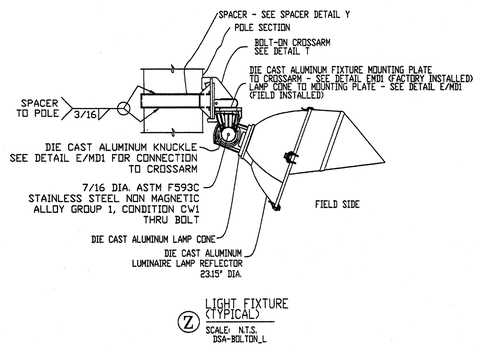
Ⓨ SPACER DETAIL
SCALE: N.T.S.
BSA-BOLTON_L



Ⓣ BOLT ON CROSSARM DETAIL
SCALE: N.T.S. BSA-BOLTonBAR_H_1



Ⓧ LIGHT FIXTURE
(TYPICAL)
SCALE: N.T.S.
DSA-BOLTonBACKtoBACK_K



Ⓩ LIGHT FIXTURE
(TYPICAL)
SCALE: N.T.S.
DSA-BOLTON_L

Information contained herein is the confidential property of Musco Sports Lighting LLC. Reproduction, distribution, or use of this information other than its limited, intended purpose, as it applies to this project, without express written permission is prohibited.

Musco products referenced or shown are protected by one or more of the following patents. U.S. Patents: 4947303; 4994718; 5075828; 5134557; 5161883; 5211473; 5229681; 5377611; 5398478; 5423281; 5426577; 5600537; 5794387; 5856721; 6036338; 6203176; 6250596; 6340790; 6398392; 6681110; 6833675; 6929365; 6969034; 6988897; 7059572; D337168; D353797; D353911; D411086. Other patents pending.

DSA-20090827_1

College Park HS
FIELD LIGHTING
Pleasant Hill, CA.

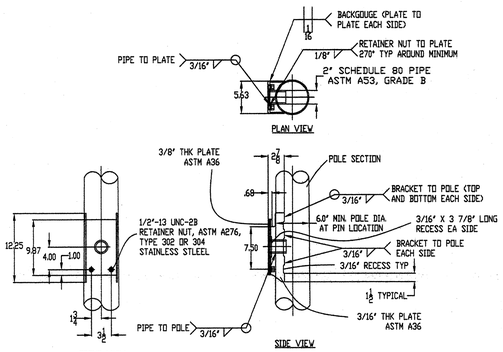
R.L. FOLEY & ASSOC., INC.
25652 ASHBY WAY
LAKE FOREST, CALIFORNIA 92630
TELEPHONE NUMBER: 949-581-5212
FAX NUMBER: 949-581-3212

REGISTERED PROFESSIONAL ENGINEER
RICHARD L. FOLEY
S 2407
7/1/14
STRUCTURAL
STATE OF CALIFORNIA
Expires 06/30/15

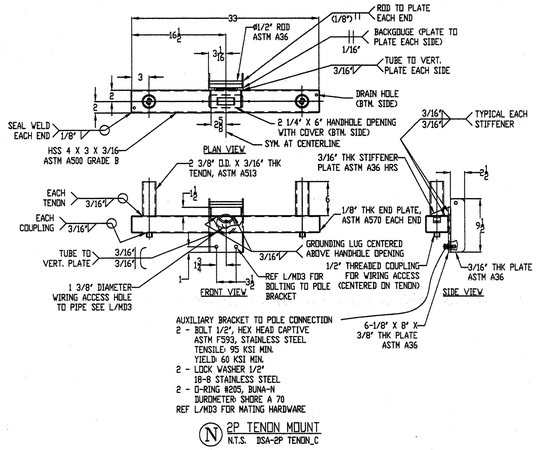
CORPORATE OFFICE:
P.O. Box 808
100 1st Avenue West
Oskaloosa, Iowa 52577
800/825-6020

DRAWING TITLE: DETAILS
SCALE: SEE PLAN
REVISIONS
REFERENCE:

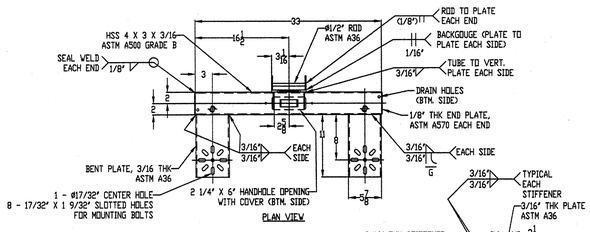
PROJECT NO. 124145
DATE: 09/03/14
DRAWN BY: TLN
DRAWING NO. 4 OF 5 MD2



L BRACKET DETAIL
N.T.S. DSA-Brkt-Dtl-L_A



N 2P TENON MOUNT
N.T.S. DSA-2P TENON_C



M 2P TRUNNION MOUNT
N.T.S. DSA-2P TRUNNION_D

Information contained herein is the confidential property of Musco Sports Lighting LLC. Reproduction, distribution, or use of this information other than its limited, intended purpose, as it applies to this project, without express written permission is prohibited.

Musco products referenced or shown are protected by one or more of the following patents. U.S. Patents: 4947303; 4994718; 5075828; 5134557; 5161883; 5211473; 5229681; 5377611; 5398478; 5423281; 5426577; 5600537; 5794387; 5856721; 6036338; 6203176; 6250596; 6340790; 6398392; 6681110; 6833675; 6929385; 6969034; 6988697; 7059572; D337168; D353797; D353911; D411096. Other patents pending.

DSA-20200827_1

College Park HS
FIELD LIGHTING
Pleasant Hill, CA.

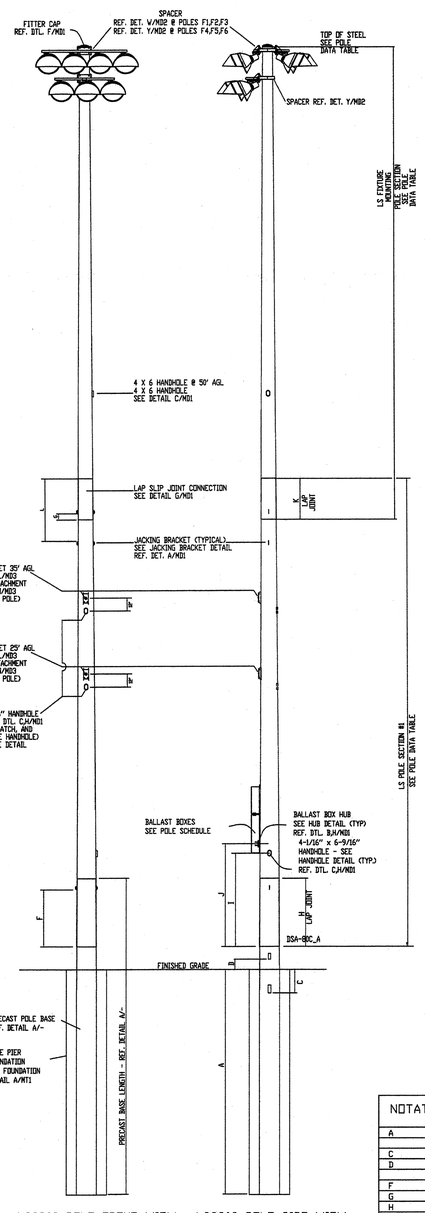
R.L. FOLEY & ASSOC., INC.
25652 ASHBY WAY
LAKE FOREST, CALIFORNIA 92630
TELEPHONE NUMBER: 949-581-5212
FAX NUMBER: 949-581-3212

REGISTERED PROFESSIONAL ENGINEER
RICHARD L. FOLEY
S 2401
11/8/14
STRUCTURAL
STATE OF CALIFORNIA
Expires 06/30/15

CORPORATE OFFICE:
P.O. Box 808
100 1st Avenue West
Oskaloosa, Iowa 52577
800/825-6020

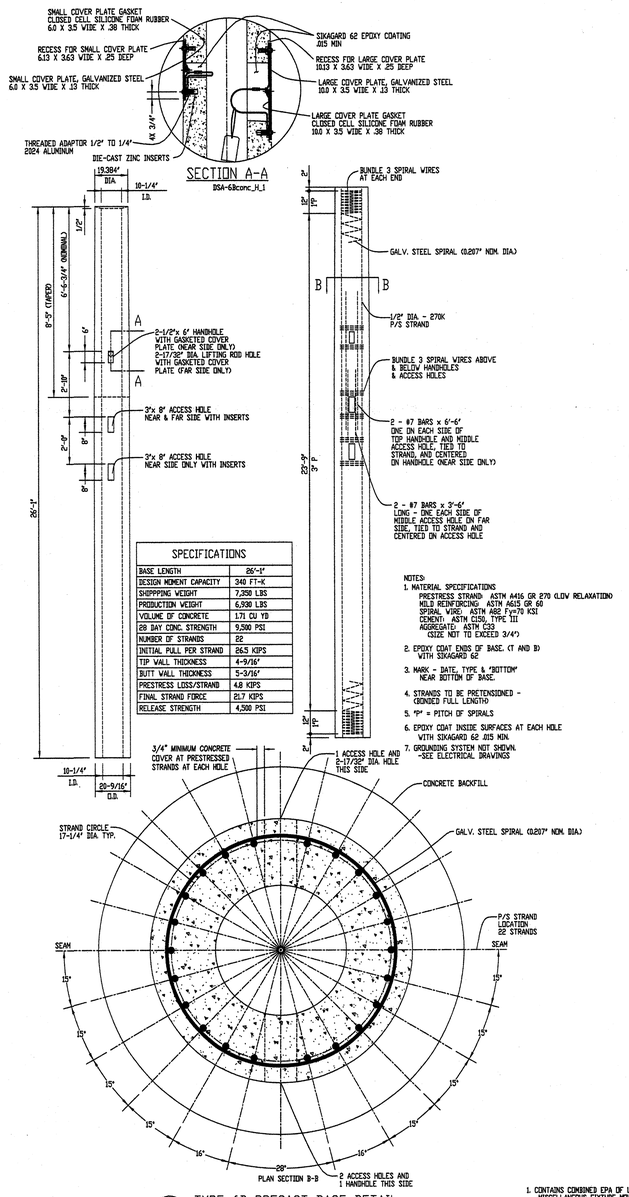
DRAWING TITLE: DETAILS
SCALE: SEE PLAN
REVISIONS
REFERENCE:

PROJECT NO. 124145
DATE: 09/03/14
DRAWN BY: TLN
DRAWING NO. 5 OF 5 MD3



LSS80C POLE FRONT VIEW
N.T.S.

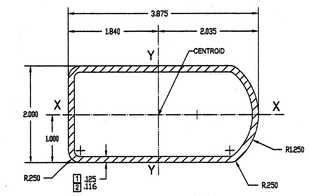
LSS80C POLE SIDE VIEW
N.T.S. DSA-BBCBASE_A



SPECIFICATIONS	
BASE LENGTH	26'-1"
DESIGN MOMENT CAPACITY	340 FT-K
SHIPPING WEIGHT	7,350 LBS
PRODUCTION WEIGHT	6,930 LBS
VOLUME OF CONCRETE	1.71 CU YD
28 DAY CONC. STRENGTH	9,500 PSI
NUMBER OF STRANDS	22
INITIAL PULL PER STRAND	86.5 KIPS
TIP WALL THICKNESS	4-9/16"
BUTT WALL THICKNESS	5-3/16"
PRESTRESS LOSS/STRAND	4.8 KIPS
FINAL STRAND FORCE	81.7 KIPS
RELEASE STRENGTH	4,500 PSI

NOTES:
1. MATERIAL SPECIFICATIONS
PRESTRESS STRAND: ASTM A416 GR 270 (LOW RELAXATION)
MILD REINFORCING: ASTM A615 GR 60
SPIRAL WIRE: ASTM A82 Fy=70 KSI
CEMENT: ASTM C150, TYPE III
AGGREGATE: ASTM C33
(SIZE NOT TO EXCEED 3/4")
2. EPOXY COAT ENDS OF BASE. (T AND B)
WITH SIKAGARD 62
3. MARK - DATE, TYPE & "BOTTOM"
NEAR BOTTOM OF BASE.
4. STRANDS TO BE PRETENSIONED -
GROUPED FULL LENGTH
5. "P" = PITCH OF SPIRALS
6. EPOXY COAT INSIDE SURFACES AT EACH HOLE
WITH SIKAGARD 62 .015 MIN.
7. GROUNDING SYSTEM NOT SHOWN.
-SEE ELECTRICAL DRAWINGS

A TYPE 6B PRECAST BASE DETAIL
N.T.S. DSA-68conc_H_1

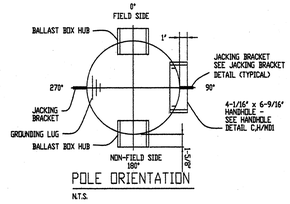


1 SECTION PROPERTIES BASED ON NOMINAL DIMS
AREA (IN^2): 1.3050
MOMENTS OF INERTIA ABOUT THE CENTROID (IN^4): X: .8630 Y: 2.3268
SECTION MODULUS (IN^3): X: .8630 Y: 1.1432
RADII OF GYRATION ABOUT THE CENTROID (IN): X: .8129 Y: 1.3348
APPROX. WT. PER FOOT (LBS): 4.45

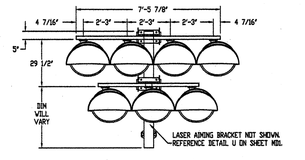
2 SECTION PROPERTIES BASED ON WALL THICKNESS @ 93% OF NOMINAL (PER AISC LRFD SPEC FOR STEEL HSS)
AREA (IN^2): 1.2177
MOMENTS OF INERTIA ABOUT THE CENTROID (IN^4): X: .8113 Y: 2.1798
SECTION MODULUS (IN^3): X: .8113 Y: 1.0712
RADII OF GYRATION ABOUT THE CENTROID (IN): X: .8152 Y: 1.3360

NOTE:
1. MATERIAL: ASTM A500, GRADE B, Fy = 70 KSI MIN.,

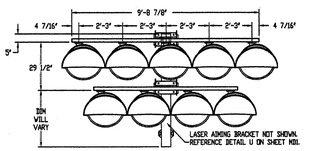
1 FIXTURE SUPPORT CROSSARM PROPERTIES
N.T.S. DSA-2P9P_B



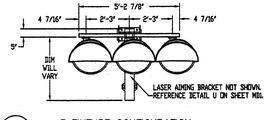
POLE ORIENTATION
N.T.S.



B 7 FIXTURE CONFIGURATION
N.T.S. DSA-B7A_C



C 9 FIXTURE CONFIGURATION
N.T.S. DSA-B9A_C



D 3 FIXTURE CONFIGURATION
N.T.S. DSA-B3A_C

NOTATION	DIMENSION LSS80C
A	18'-0"
C	2'-0" NOM.
D	1'-0" NOM.
F	4'-10" NOM.
G	6'
H	6'-5 7/8" NOM. 5'-3 3/4" MIN.
I	8'-1 1/2" NOM.
J	9'-3 1/2" NOM.
K	4'-7 7/8" NOM. 3'-1 3/8" MIN.
L	5'-6 1/2" NOM.

1. CONTAINS COMBINED EPA OF LIGHT FIXTURES, CROSS ARM AND MISCELLANEOUS FIXTURE MOUNTING APPARATUS.

FIXTURE WEIGHT 40 LBS. THIS INCLUDES THE WEIGHT OF FIXTURE, CROSS ARM & MISC. MOUNTING APPARATUS. ELECTRICAL BALLAST BOX WEIGHT 50 LBS PER FIXTURE SERVICED.

POLE SCHEDULE

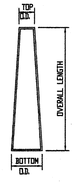
SITE LOCATION	POLE MARK	REFERENCE LOCATION	POLE TYPE	FIXTURE CONFIGURATION	TOTAL EPA[1]	BALLAST BOX REQUIREMENTS
SEE SITE PLAN (BY OTHERS)	F1,F2,F3	SEE POLE ORIENTATION PLAN	LSS80C	7,3 - SEE DETAIL B,D/M01	2.1.0	SEE DETAIL Q,D/M01
	F4,F5,F6	SEE POLE ORIENTATION PLAN	LSS80C	9 - SEE DETAIL C/M01	2.6.1	SEE DETAIL R,/M01

DSA-POLESCHE_C

POLE DATA TABLE

POLE TYPE	PIECE MARK	MAX NUMBER of X-Arms	POLE SECTION	TOP O.D. (INCHES)	BTM. O.D. (INCHES)	OVERALL LENGTH	STRAIGHT LENGTH	TAPER LENGTH	THICKNESS (INCHES)	TOP OF STEEL	ASTM REFERENCE
LSS80C	MP-5BTTDSA-7	2	FIXTURE MOUNTING	10.150"	15.965"	4'-6 3/8"	-----	4'-6 3/8"	.179	80'-0 1/4" NOM. 81'-1" EXP.	A595A (Fy=55 ksi) or A572, Gr 55 or 65
	MP-7BTDSA-D		#1	14.954"	20.770"	4'-6 1/2"	-----	4'-6 1/2"	.239	------	A595A (Fy=55 ksi) or A572, Gr 55 or 65
	MP-6BDSA		PRECAST BASE	FOR PRECAST MEMBER PROPERTIES SEE PRECAST BASE DETAIL A/-							

DSA-80CBT_H



TOP/MIDDLE/BOTTOM
POLE SECTION

DSA-BB_A

College Park HS
FIELD LIGHTING
Pleasant Hill, CA

R.L. FOLEY & ASSOC., INC.
25652 ASHBY WAY
LAKE FOREST, CALIFORNIA 92630
TELEPHONE NUMBER: 949-581-5212
FAX NUMBER: 949-581-3212

musco Lighting
CORPORATE OFFICE:
P.O. Box 808
100 1st Avenue West
Oskaloosa, Iowa 52577
800/825-6020

REGISTERED PROFESSIONAL ENGINEER
RANDALL T. FOLEY
S 2407
9/30/14
STRUCTURAL
STATE OF CALIFORNIA
Expires 06/30/15

DRAWING TITLE: POLE DETAIL
SCALE: SEE PLAN
REVISIONS:
REFERENCE:

PROJECT NO. 124145
DATE: 09/03/14
DRAWN BY: TLN
DRAWING NO. MS1
2 OF 5

GENERAL NOTES:

APPLICABLE BUILDING CODE

All construction and workmanship shall conform to the 2013 California Building Code, California Code of Regulations – Title 24, Parts 1 & 2

This pole and foundation standard has been designed for lateral loads on the completed structure as follows:

Wind Design Data:
- Vult = 110 MPH (Exposure C); Vasd = 85 MPH (Exposure C)
- Risk Category = II
- See Pole Foundation Schedule for maximum pole wind forces.

Seismic Design Data:
- Ie = 1.0
- Risk Category = II
- Ss = 1.875
- S1 = 0.639
- Site Class = C
- Sms = 1.217
- Sm1 = 0.554
- Seismic Design Category = D
- Basic Seismic-Force-Resisting System = Non-Building Structure, not similar to buildings
- R = 1.5
- Ω = 1.5
- Cs = 0.341 (Strength Level)
- Analysis Procedure = Equivalent Lateral Force Procedure
- See Pole Foundation Schedule for maximum pole seismic forces.

GENERAL CONSTRUCTION

These notes shall be used in conjunction with the plans and any discrepancies shall be brought to the attention of the Registered Design Professional (RDP) in Responsible Charge.

Contractor must check all dimensions, clearances and job conditions before starting work. The RDP in Responsible Charge shall be notified immediately of any discrepancies or possible deficiencies.

The drawings and specifications represent the finished structure. All bracing, temporary supports, shoring, etc., is the sole responsibility of the Contractor. Observation visits to the job site by the RDP in Responsible Charge do not include inspection of construction procedures. The Contractor is solely responsible for all construction methods and for safety conditions at the worksite. These visits by RDP in Responsible Charge shall not be construed as continuous and detailed inspections.

Design, material, equipment, and products other than those described below or indicated on the drawings may be considered for use, provided prior approval is obtained from the School District, the RDP in Responsible Charge, and DSA.

All changes to the approved plans after a contract for construction has been awarded, affecting structural, access or life-safety portions of the project, shall be made by means of construction change documents (CCD) approved by DSA, as required by Section 4-338, Part 1, Title 24, CCR. All CCD shall be prepared and signed by the RDP in general Responsible Charge.

Substitutions shall be considered as a CCD and shall be approved by DSA prior to fabrication or use.

A Class 1 or Class 2 Project Inspector employed by the School District (Owner) and approved by DSA shall provide continuous inspection of the work, the duties of the Inspector are defined in Section 4-342, Part 1, Title 24, CCR.

All Tests And Inspections shall be performed by an independent lab employed by the School District and approved by DSA.

Reference pole location on the Architectual, Structural, and/or Electrical drawings for actual pole placement and site location.

LIGHT POLE FOUNDATIONS

Reference geotechnical report prepared by Consolidated Engineering Laboratories Dated May 7, 2014; PN 84-03320-A.

Allowable Skin Friction Capacity – 4,000 PSF in lean clay/clayey sand; 15,000 PSF in bedrock.

Allowable Lateral Bearing Capacity: in lean clay/clayey sand: 0 PSF first 3'-0"; 250 PSF from 3'-0" to 7'-0"; 350 PSF > 7'-0".

Allowable skin friction capacity in bedrock: None.

Allowable lateral bearing capacity: 300 PSF/FT (Neglect top 3'-0").

A representative of Consolidated Engineering Laboratories should be available at the time of the foundation installation to verify the soil design parameters and to provide assistance if any problems arise in foundation installation.

The Contractor must familiarize himself with the complete geotechnical report, and borings and contact the above firm to understand the soil conditions and the possibility of ground water pumping and excavation stabilization or bracing during the foundation installation and placement of concrete.

Soil formations that will require special design considerations or excavation procedures may exist. Pole foundations may need to be reanalyzed according to the soil conditions that exist.

If any discrepancies or inconsistences arise, notify the RDP in Responsible Charge of such descrepancies.

All piers and concrete must bear on and against firm undisturbed soil as determined by the Geotechnical Engineer.

Place plywood collar around perimeter at the top of foundation excavation to prevent soil from entering.

All excavations must be free of loose soil, and debris prior to foundation installation and placement of concrete. Casing or drilling slurry may be required if caving occurs. Review and approval of the Geotechnical Engineer and DSA is required.

All excavations must be free of water or concrete shall be placed by the Tremie Method in accordance with ACI standard 336. Concrete placed by the Tremie Method shall have a minimum ultimate strength of 1,000 PSI greater than required under "Concrete Backfill" and a maximum slump of 8".

CONCRETE

Concrete shall attain a minimum ultimate compressive strength at 28 day test of 3,000 psi.

Concrete shall attain a minimum strength of 2,500 psi prior to steel pole erection.

Use Type II/V Portland cement or as directed by the Geotechnical Engineer.

Portland Cement ASTM C-150.

Aggregate ASTM C-33. 1" maximum aggregate size.

Mix in conformance with ASTM C-94, ACI 318 Sections 5.1 through 5.4.

Place concrete immediately after completion of excavation and inspection by the Geotechnical Engineer and the DSA Inspector. Under no circumstances shall piers be allowed to remain open for more than 12 hours without the approval of the Geotechnical Engineer. Excavations shall be covered and protected until filled with concrete.

Concrete shall be placed in one continuous operation (no construction joint) with special equipment to assure a maximum freefall of 5 ft and to prevent concrete from striking the sides of the excavation. Freefall of concrete is unacceptable through water or drilling slurry.

Vibrate concrete full depth, except for concrete with slump greater than 6", then vibrate only upper 10'-0". Concrete placed under water shall have a slump of 6"-8".

STEEL POLE

Steel pole sections conform to the California Code of Regulations T.24, Part 2, Chapter 22A.

All steel conforms to referenced ASTM specifications. (See Pole Data Table for each pole type).

All weldment conforms with AWS D1.1 specification for GMAW fillet utilizing E70S-X filler metal or SAW fillet utilizing F7XX-EXXX or F8XX-EXXX filler metal.
GMAW procedure conforms to AWS A5.18.
SAW procedure conforms to AWS A5.23.

Longitudinal seam welds for pole sections shall have 60% minimum penetration; Except longitudinal seam welds on the female section of telescopic field splices shall be full penetration groove welds for a length equal to the minimum splice length plus 6 inches. See drawing number MD1 for seam weld details.

Pole sections hot dipped galvanized to ASTM A123 latest standards.

All miscellaneous structural steel items conform to AISC 360-10.

Steel pole sections shall be assembled in the field by attaching two 1.5 ton "come alongs" to jacking ears, using full effort on each simultaneously, to ensure minimum overlaps as indicated on the "MS" sheet(s) and detail G/MD1.

PRECAST BASE

The precast concrete base conforms to California Code of Regulations, T.24, part 2, Chapter 19A and to Building Code Requirements for Reinforced Concrete, ACI 318-11.

See detail "A" on "MS" sheet(s) for material strengths and specifications.

TESTING AND INSPECTION

Testing and inspection in accordance with Title 24, Part 2.

EXCAVATIONS & FOUNDATIONS:
Inspection of cast-in-place deep foundations – 1705A.8 & Table 1705A.8

CONCRETE MATERIALS: 1903A.1
Portland cement – 1913A.1
Concrete aggregates – 1903A.6
Reinforcing bars – 1913A.2
Prestressing steel and anchorages – 1913A.3

CONCRETE QUALITY:
Proportions of concrete – Reference ACI 318 Section 5.2 Through 5.5
Strength tests of concrete – 1905A.1.2 and ACI 318 Section 5.6

CONCRETE INSPECTION: 1705A.3 & Table 1705A.3
Job site – Reference ACI 318 Section 5.7
Batch plant – 1705A.3.2
Waiver of batch plant – 1705A.3.3
Prestressed concrete – 1704A.2.5, 1705A.3.4

STEEL MATERIALS:
Structural steel – 2203A.1 & 2205A.1
Cold formed steel – 2210A.1
Identification – 2203A.1
High strength bolt identification – DSA IR 17-9

STEEL QUALITY:
Tests of structural steel & cold formed steel – 2203A.1
Non-destructive weld tests – 1705A.2.2.5

STRUCTURAL STEEL INSPECTIONS: Table 1705A.2.1
Shop fabrication inspection – 1704A2.5
Welding – 1705A.2.2.5 and DSA IR 17-3

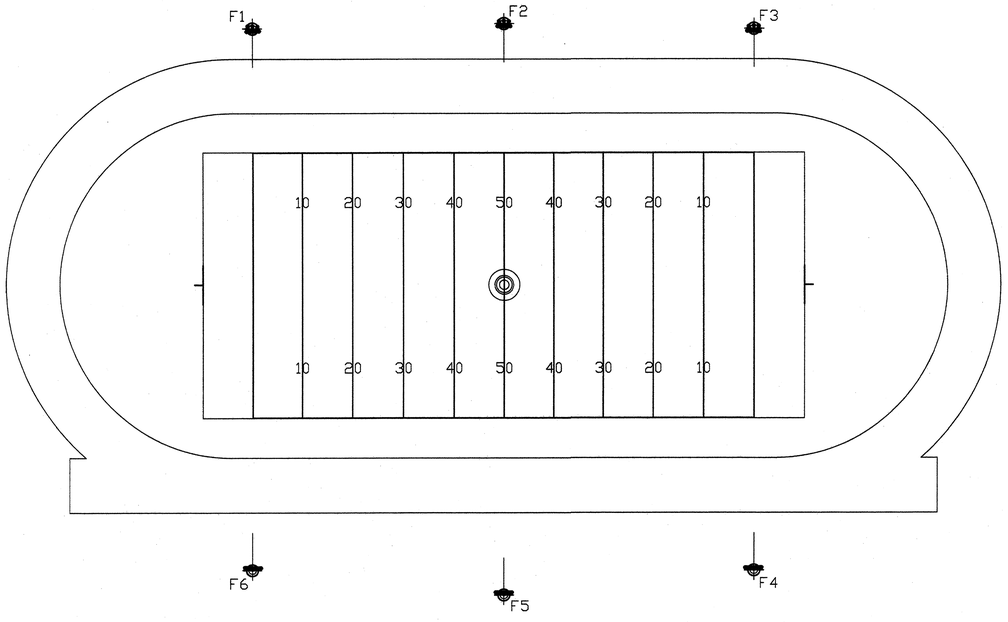
(NOTE: ALL WELDING SHALL BE CONTINUOSLY INSPECTED BY AN AWS CW CERTIFIED INSPECTOR APPROVED BY DSA)

These plans are for construction approval. An application number and approval of these drawings by the Division of The State Architect of California must be secured to build from these plans.

INDEX OF SHEETS

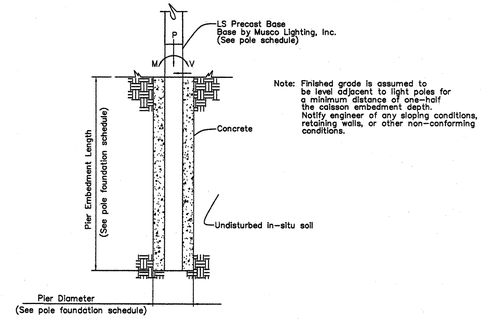
MT1	NOTES, FOUNDATION DETAIL
MS1	80C POLE DETAIL
MD1	DETAILS
MD2	DETAILS
MD3	DETAILS

Expires 06/30/15



POLE ORIENTATION PLAN
N.T.S.

NOTE: THIS PLAN IS A PICTORAL REPRESENTATION OF THE SITE LAYOUT. REFERENCE APPROPRIATE ARCHITECTURAL SITE PLAN FOR ALL NECESSARY INFORMATION.



(A) FOUNDATION DETAIL
N.T.S.

POLE FOUNDATION SCHEDULE

POLE TYPE-# OF FIXTURES (MAX) (LSS = LIGHT STRUCTURE)	MARK (SEE POLE ORIENTATION PLAN)	WIND OR SEISMIC (Seismic force includes overstrength factor = 1.5)	ASD LEVEL FORCES (MAXIMUM)			C.I.P DEEP FOUNDATION	
			Moment (M) FT-LBS	Shear (V) LBS	Vertical (P) LBS	Diameter Inches	Embedment Length
LSS80C-10	F1,F2,F3,F4, F5,F6	SEISMIC	137,425	2,381	6,654	36"	18'-0"
		WIND	141,983	2,741	4,071		

*Moment (M) computed below grade at Shear (V) = 0.
**Vertical (P) load includes steel pole, light fixtures, and attachments. Vertical (P) load for seismic also includes weight of precast base above groundline. Reference Detail "A" on MS Sheet(s) for precast base weight.

Information contained herein is the confidential property of Musco Sports Lighting LLC. Reproduction, distribution, or use of this information other than its limited, intended purpose, as it applies to this project, without express written permission is prohibited.

Musco products referenced or shown are protected by one or more of the following patents. U.S. Patents: 4947303; 4994718; 5075828; 5134557; 5161883; 5211473; 5229681; 5377611; 5398478; 5423281; 5426577; 5600537; 5794387; 5856721; 6036338; 6203176; 6250596; 6340790; 6398392; 6681110; 6833675; 6929385; 6969034; 6988697; 7059572; D337168; D353797; D353911; D411096. Other patents pending.

DSA-TITLE1_E

College Park HS
FIELD LIGHTING
Pleasant Hill, CA

R.L. FOLEY & ASSOC., INC.
25652 ASHBY WAY
LAKE FOREST, CALIFORNIA 92630
Telephone Number: 949-581-5212
Fax Number: 949-581-3212

CORPORATE OFFICE:
P.O. Box 808
100 1st Avenue West
Oskaloosa, Iowa 52577
800/825-6020

DRAWING TITLE: NOTES, FOUNDATION DETAIL
SCALE: SEE PLAN
REVISIONS:
REFERENCE:

PROJECT NO. 124145

DATE: 09/03/14

DRAWN BY: TLN

DRAWING NO. MT1
1 OF 5

ENVIROPLEX, INC.

STEEL ORDINARY MOMENT RESISTING FRAME MODULAR BUILDING

(1) 40'x32' R.R./CONCESSION and (1) 10'x10' TICKET BOOTH FOR COLLEGE PARK HIGH SCHOOL – MT. DIABLO U.S.D.

(PC Ref.# 02–112287, and 02–112290)

TEST & INSPECTION GUIDELINE

TYPE OF MODULAR STEEL MOMENT FRAME BUILDING PROJECT
(X–INDICATES TEST OR INSPECTION TO BE DONE)

MATERIAL TYPE		DSA 103 ITEM #	DESCRIPTION	STOCKPILE: WOOD FLOOR ONLY	STOCKPILE: CONCRETE FLOORS	CONSTRUCTION OF (diaphragm material–foundation material): PLYWOOD FLOOR ONLY -WOOD FOUNDATION	CONSTRUCTION OF: PLYWOOD FLOOR -CONCRETE FOUNDATION	CONSTRUCTION OF: CONCRETE FLOOR - CONCRETE FOUNDATION	RELOCATION OF CERTIFIED BUILDING: WOOD FOUNDATION	RELOCATION OF CERTIFIED BUILDING: CONCRETE FOUNDATION
SOILS Verify the necessity of the Tests and/ or Inspections with the requirements of the application that this PC is part of.	GENERAL	1	-Site has been prepared properly prior to fill placement/excavations -Fin excavations extended to proper depth and material -Materials below footing are adequate				X	X		X
	COMPACTED FILL	2a	Perform qualification testing of materials				X	X		X
		2b	Proper fill materials, lift thickness placement and compaction during placement,				X	X		X
		2c	Compaction test				X	X		X
CONCRETE	LT WT FILL OVER METAL DECK	7a	Verify required design mix		X			X		
		7c	Perform slump and (where required) air content test; determine temperature of concrete		X			X		
		7d	Test concrete - compression tests		X			X		
		7e	Inspect batching of concrete -		X			X		
		12	Waiver of Batch Plant Inspection See Note 1 for conditions and requirements.		X			X		
		7f	Inspect placement of concrete, reinforcing and embedded items over steel deck - by RSIP		X			X		
	FOUNDATION	7a	Verify required Design Mix				X	X		X
		7b	Test reinforcing Steel - See Note 1 for Waiver for one story Bldgs.				X	X		X
		7c	Perform slump and (where required) air content test; determine temperature of concrete				X	X		X
		7d	Test concrete - compression tests				X	X		X
		7e	Inspect batching of concrete -				X	X		X
		7e	Inspect placement of formwork, concrete, reinforcing steel and embedded items - by Project Inspector				X	X		X
	POST INSTALLED ANCHORS STEEL		Inspect Installation of post installed anchors				X	X		X
			Test post-installed anchors				X	X		X
STRUCTURAL STEEL	MATERIAL VERIFICATION	17a	-Materials are appropriately marked -Mfr. certified mill test reports -Material sizes, types and grades comply with requirements	X	X	X	X	X		
		17b	Sample and test all unidentified structural steel and steel deck	X	X	X	X	X		
		17c	Examine seam welds of structural tubes and pipes	X	X	X	X	X		
		17d	Verify member locations, bracing and all details constructed in the field	X	X	X	X	X		
		17e	Verify stiffener locations, connection tab locations and all construction details fab'ricated in the shop.	X	X	X	X	X		
	FABRICATION OF MATERIALS EQUIPMENT, WELDERS, ETC	19a	Verify weld filler material identification marking per AWS designation listed on the DSA approved documents and the WPS	X	X	X	X	X		
		19b	Verify weld filler material manufacture's certificate of compliance	X	X	X	X	X		
		19c	Verify WPS, welder qualifications and equipment	X	X	X	X	X		
	SHOP WELDING	19.1a	Inspect groove, multi-pass, and fillet welds > 5/16"	X	X	X	X	X		
		19.1b	Inspect single-pass fillet welds ≤ 5/16"	X	X	X	X	X		
		19.1c	Inspect welding of stairs and railing systems. Note 3.	X	X	X	X	X		
	FIELD WELDING STEEL	19.2a	Inspect groove, multi-pass, and fillet welds > 5/16"			X	X	X		X
		19.2b	Inspect single-pass fillet welds ≤ 5/16"			X	X	X		X
		19.2f	Inspect welding of stairs and railing systems.			X	X	X		X
	OTHER	24a	Shop Welding - Inspection welding of cold-formed steel Periodic/Special Inspector	X	X	X	X	X		
		24b	Shop Welding - Inspect welding of steel floor deck welds Periodic/Special Inspector		X			X		
OTHER - SHOT PINS (Two Story Modular)		27c	Cutting wire hangers (pins in metal deck with concrete fill) Test/Lab		X			X		

INSPECTOR CLASS (minimum requirements)	RSIP or Class 1	In Plant RSIP or Class 1 Site: Class 4 for Single Story Site: Class 2 for Two-story			Class 4 for Single Story Class 2 for Two-story
SELECTION OF THE PROJECT INSPECTOR AND TESTING AGENCY	By the Owner and approved by DSA, A/E of Record and Structural Engineer	By the School District and approved by DSA, A/E of Record and Structural Engineer			
COST OF THE PROJECT INSPECTOR (Title 24, Part1,Section 4-333(b)) AND TESTING AGENCY (Title 24, Part 1, Section 4-335))	By the Owner	By the School District			

NOTE 1: Reinforcing steel tests may be waived for one-story buildings.
NOTE 2: Required only where the details of the PC specify the use of this type of anchor
NOTE 3: Required only where the details of the PC specify this Welding

The Example form DSA-103's shown on this sheet are 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 all Example form DSA-103's are to be crossed out on this drawing.

PC GENERAL NOTES

1. THIS PC IS NOT APPROVED FOR "A" OCCUPANCY USES.
2. PC BUILDING CLASSIFIED AS OCCUPANCY "A" WITH OCCUPANT LOAD 100 OR MORE CAN NOT BE REVIEWED OVER THE COUNTER (OTC).
3. PC BUILDING APPROVED ONLY FOR OCCUPANCY B, or E (STRUCTURAL CATEGORY I & II) WITH OCCUPANT LOAD LESS THAN 250.
4. PC BUILDING EXITING IS BASED ON THE USE OR OCCUPANCY AND WILL BE REVIEWED AS SITE SPECIFIC.
5. PC BUILDING LOCATED IN FIRE HAZARD SEVERITY ZONES PER WILDLAND URBAN INTERFACE FIRE AREAS (WUI) SHALL CONFORM TO CBC CHAPTER 7A.
6. THIS PC IS NOT APPROVED FOR FIRE HAZARD SEVERITY ZONES PER C.B.C. CHAPTER 7A.
7. SITE AND USE SPECIFIC REQUIREMENT FOR FIRE ALARM SYSTEM MIGHT BE REQUIRED BUT NOT INCLUDED IN THIS PC APPROVAL.
8. THIS BUILDING IS STRUCTURALLY DESIGNED TO SUPPORT THE WEIGHT OF A FUTURE FIRE SPRINKLER SYSTEM (EQUIVALENT TO 1.5 psf MAXIMUM), IF REQUIRED.
9. THIS PC IS APPROVED FOR CLIMATE ZONES 1 THROUGH 16.
10. THIS PC IS NOT APPROVED FOR OCCUPANCY E USED AS SPECIAL HAZARD USE OR STORE SUCH AS LIBRARIES, VOCATIONAL SHOPS & DAYCARE CANNOT BE REVIEWED OVER THE COUNTER (OTC).
11. DRAFTSTOPS REQUIRED FOR CONCEALED SPACES OVER 3000 SQ.FT. (C.B.C. 17)

DSA GENERAL NOTES

1. ALL MATERIALS & WORKMANSHIP SHALL CONFORM TO THE 2010 CALIFORNIA BUILDING CODE (C.B.C.). A COPY OF THE CALIFORNIA BUILDING CODE SHALL BE KEPT ON THE SITE AT ALL TIMES.
2. CHANGES TO THE APPROVED DRAWINGS & SPECIFICATIONS SHALL BE MADE BY AN ADDENDA OR A CHANGE ORDER APPROVED BY THE ARCHITECT OF RECORD, OWNER, & THE DIVISION OF THE STATE ARCHITECT, AS REQUIRED.
3. A PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) & APPROVED BY THE ARCHITECT OF RECORD & THE DIVISION OF THE STATE ARCHITECT SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-333(b) OF 2010 TITLE 24, PART 1.
4. MATERIAL TESTING AS NOTED IN THE STRUCTURAL TESTS & INSPECTIONS AT THE LEFT SHALL BE PERFORMED AS REQ. PER SECTION 1704A & 2212A, & 1916A FOR CONCRETE OF 2010 C.B.C. MATERIAL TESTING REQUIRED BY FIRE REGULATIONS SHALL BE PERFORMED BY A NATIONALLY RECOGNIZED TESTING LABORATORY.
5. VERIFIED REPORTS (DSA/SSS FORM 6) SHALL BE SUBMITTED PER SECTION 4-336, 4-341(f), 342(b)(8), AND 4-343 (c) BY THE MANUFACTURER, INSPECTOR, STRUCTURAL ENGINEER.
6. A SEPARATE DSA APPLICATION NUMBER MUST BE OBTAINED BEFORE MANUFACTURING ANY ENVIROPLEX UNIT IN ACCORDANCE WITH THESE DRAWINGS.
7. GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD & ACCESS REQUIREMENTS & ENVIROMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.
8. SPECIAL INSPECTIONS PER CHAPTER 17A, 2010 C.B.C.

OPT. COMBINATIONS ALLOWED

Option combination table
30'x32' to 150'x32' PC

▩ not applicable / not allowed

		Roof: Bi-Pitch	Shed	Variable Pitch	Foundation: Concrete	50# wood (2160 sf. max.)	85# wood (2160 sf. max.)	125# wood (2160 sf. max.)
Exterior Finish	Standard MDO, lap siding, wood clad siding	X	X	X	X	X	X	X
	Stucco-flex	X	X	X	X	▩	▩	▩
	3-coat stucco	X	X	X	X	▩	▩	▩
Roof Slope	Bi-pitch	▩	▩	▩	X	X	X	X
	Shed	▩	▩	▩	X	X	X	X
	Variable pitch	▩	▩	▩	X	▩	▩	▩
Roof Facades	Mansard	X	X	▩	X	▩	▩	▩
	Plant on fascia (all ext. finishes allowed)	X	X	▩	X	▩	▩	▩
	Braced parapet (all ext. finishes allowed)	X	X	▩	X	▩	▩	▩
Roof load/column	20 psf, TS 5 x 5 x 3/16"	X	X	X	X	X	X	X
	30 psf, TS 5 x 5 x 1/4"	X	X	X	X	▩	X	X
Floor load	50 psf (joist spacing at 32" or 24"o.c.)	X	X	X	X	X	X	X
	65 psf (joist spacing at 32" or 24"o.c.)	X	X	X	X	▩	X	X
	125 psf (joist spacing at 24"o.c.)	X	X	X	X	▩	▩	X
Fire rated const.	NR/Sprinklered	X	X	X	X	X	X	X
	1-hour throughout (entire roof & all walls)	X	X	X	▩	▩	▩	▩
	Fire barriers (int & ext., multiple walls)	X	X	X	X	X	X	X

GOVERNING CODES

2010 CALIFORNIA ADMINISTRATIVE CODE (CAC) (PART 1, TITLE 24, CCR)

2010 CALIFORNIA BUILDING CODE (CBC), VOLUMES 1, 2 (PART 2, TITLE 24, CCR)
(2009 EDITION INTERNATIONAL BUILDING CODE WITH 2010 CALIFORNIA AMENDMENTS)

2010 CALIFORNIA ELECTRICAL CODE (PART 3, TITLE 24, CCR)
(2008 EDITION NATIONAL ELECTRICAL CODE WITH 2010 CALIFORNIA AMENDMENTS)

2010 CALIFORNIA MECHANICAL CODE (CMC) (PART 4, TITLE 24, CCR)
(2009 EDITION IAPMO UNIFORM MECHANICAL CODE WITH 2010 CALIFORNIA AMENDMENTS)

2010 CALIFORNIA PLUMBING CODE (CPC) (PART 5, TITLE 24, CCR)
(2009 EDITION IAPMO UNIFORM PLUMBING CODE WITH 2010 CALIFORNIA AMENDMENTS)

2010 CALIFORNIA ENERGY CODE (PART 6, TITLE 24, CCR).
(2008 EDITION CALIFORNIA ENERGY COMMISSION BUILDING ENERGY EFFICIENCY STANDARDS)

2010 CALIFORNIA FIRE CODE (CFC) (PART 9, TITLE 24, CCR).
(2009 EDITION OF INTERNATIONAL FIRE CODE WITH 2010 CALIFORNIA AMENDMENTS)

2010 CALIFORNIA GREEN CODE (PART 11, TITLE 24, CCR)

2010 CALIFORNIA REFERENCED STANDARDS CODE (PART 12, TITLE 24, CCR)

NFPA 13 - 2010

NFPA 72 - 2010

DESIGN CRITERIA

DEAD AND LIVE LOADS

FLOOR: LIVE LOAD - ▩ 50.0 PSF (Ticket Booth) ▩ 65.0 PSF (R.R./ Cons.) ☐ 125.0 PSF ☐ 150.0 PSF

FLOOR: DEAD LOAD - 8.0 PSF

ROOF: LIVE LOAD - ▩ 20.0 PSF (SNOW) ☐ 30.0 PSF (SNOW)

ROOF: DEAD LOAD - 8.0psf (14.0psf W/1HR ROOF)

ALLOWABLE SOIL PRESSURE

DL (WOOD FOOTING) ☐ 900 PSF
DL + LL (WOOD FOOTING) ☐ 1000 PSF

DL + LL + SEISMIC (WOOD FOOTING) ☐ 1333 PSF
DL + LL (CONCRETE FOOTING) ▩ 1500 PSF
DL + LL + SEISMIC (CONCRETE FOOTING) ☐ 2000 PSF

ROOF SNOW LOAD

ROOF SNOW LOAD ☐ FLAT P_S 30 PSF ☐ SLOPED P_f 30 PSF
SNOW EXPOSURE FACTOR, C_e 1.2
SNOW LOAD IMPORTANCE FACTOR, I ☐ 1.0 ☐ 1.1 > 250
THERMAL FACTOR, C_t 1.0

FLOOD DESIGN

BUILDINGS IN THIS PC ARE NOT DESIGNED TO BE LOCATED IN A FLOOD HAZARD AREA

WIND DESIGN

BASIC WIND SPEED (3 SECOND GUST), V 85 MPH
WIND EXPOSURE FACTOR C
METHOD 1 ASCE 7-05, SEC 6.4 - SIMPLIFIED PROCEDURE
ADJUSTMENT FACTOR, λ 1.21
SIMPLIFIED WIND PRESSURE, P_{S30}

SEISMIC DESIGN

LATERAL FORCE RESISTING SYSTEM: ORDINARY STEEL MOMENT FRAMES
ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE PROCEDURE
SEISMIC DESIGN CATEGORY (SDC) D
SEISMIC IMPORTANCE FACTOR, I 1.0

V=EQUIV. LATERAL FORCE PROCEDURE BASE SHEAR (STRENGTH DESIGN)
$V = C_S W = 0.286W$
$C_S = \frac{S_{DS}}{(R/I)} = 0.286$

BASIC SEISMIC FORCE RESISTING SYSTEM: ORDINARY STEEL MOMENT FRAMES
R = 3.5 P = 1.0 SITE CLASS: D
I = 1.0 C_d = 3.0 *S_s = 1.5 F_a = 1.0 S_{DS} = 1.0
Ω = 3.0 S_1 = N/A F_v = 1.0 S_{D1} = 1.0

* MAXIMUM S_s FOR REGULAR STRUCTURES FIVE STORIES OR LESS WITH PERIOD OF 0.5 SECONDS OR LESS PER ASCE 7-05 12.8.1.3

MAPPED MCE, 5% DAMPED, SPECTRAL RESPONSE ACCELERATION: N/A
LONG PERIOD SITE COEFFICIENT, F_v: 1.0
DESIGNED, 5% DAMPED, SPECTRAL RESPONSE ACCELERATION: 1.0
HORIZONTAL OR VERTICAL IRREGULARITIES TYPE(S): N/A

BUILDING DATA

CONSTRUCTION TYPE:	V-B
OCCUPANCY:	B
BUILDING AREA: (40'x32' R.R.)	1280 S.F.
BUILDING AREA: (10'x10' Ticket)	100 S.F.
NUMBER OF STORIES:	1

SHEET INDEX

A0– COVER SHEET, BUILDING CODES & CBC DATA, SHEET INDEX

(NOTE: SHEET INDEX LISTED BELOW ARE FROM PC 02–112287)

40'x32' RESTROOM / CONCESSION BLDG.
A1– FLOOR PLAN, MATERIAL SPECIFICATIONS, GENERAL NOTES
A1.1– INTERIOR ELEVATIONS – DETAILS
A1.2– BI–PITCHED ROOF PLAN – EXTERIOR ELEVATIONS

A2– REFLECTED CEILING PLANS, HVAC WALL ATTACH., DETAILS, HVAC SPECS.
A3– ELECTRICAL POWER PLAN, SIGNAL PLAN, LIGHTING PLAN, DETAILS, ELECTRICAL NOTES

A4.1– BI–PITCHED ROOF SECTIONS AND DETAILS (2x9 EXTERIOR WALLS)
A4H – INTERIOR WALL CONNECTION DETAILS
A5– MISCELLANEOUS DETAILS
S1C – CONCRETE FOUNDATION PLAN, FOOTING DETAILS, NOTES
S1C.1 – ADJUSTABLE FOUNDATION PLAN & ALTERNATE DETAILS
S1C.2 – MISCELLANEOUS FOOTING DETAILS

S2– BI–PITCH ROOF, CEILING, FLOOR FRAMING PLANS, STRUCTURAL STEEL PROPERTIES, NOTES
S3– BI–PITCHED ROOF BUILDING SECTION, WALL FRAMING ELEVATIONS, END FRAME ELEVATION, MAILING SCHEDULE
S4 – STRUCTURAL CONNECTION DETAILS
S4.1– ALTERNATE STRUCTURAL DETAILS
S4.2 – ALTERNATE STRUCTURAL DETAILS

(NOTE: SHEET INDEX LISTED BELOW ARE FROM PC 02–112290)

10'x10' TICKET BOOTH
S2– BI–PITCH ROOF, CEILING, FLOOR FRAMING PLANS, STRUCTURAL STEEL PROPERTIES, NOTES
S3– BI–PITCH ROOF BUILDING SECTION, WALL FRAMING ELEVATIONS, END FRAME ELEVATION, MAILING SCHEDULE
S4– STRUCTURAL CONNECTION DETAILS
S4.1– ALTERNATE STRUCTURAL DETAILS

NEW

MODIFICATIONS TO PC PLANS

ITEMS OR NOTES CLOUDED REPRESENT MODIFICATIONS TO PC PLANS.
ALL OTHER ITEMS OR NOTES NOT CLOUDED ARE SAME AS ON PC PLANS.

CYS STRUCTURAL ENGINEERS, INC.
3445 American River Drive, Suite 650
Sacramento, CA 95864
(916) 978-0100 Fax
www.cysse.com

REGISTERED PROFESSIONAL ENGINEER PATRICK ERNE No. S2030 EXP. 9/30/15 STRUCTURAL STATE OF CALIFORNIA

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

ENVIROPLEX, INC.
4777 E. CARPENTER ROAD STOCKTON, CA. 95215, (209) 466–8000

(1) 40'x32' R.R./CONCESSION and (1) 10'x10' TICKET BOOTH
FOR COLLEGE PARK HIGH SCHOOL
MT. DIABLO UNIFIED SCHOOL DISTRICT

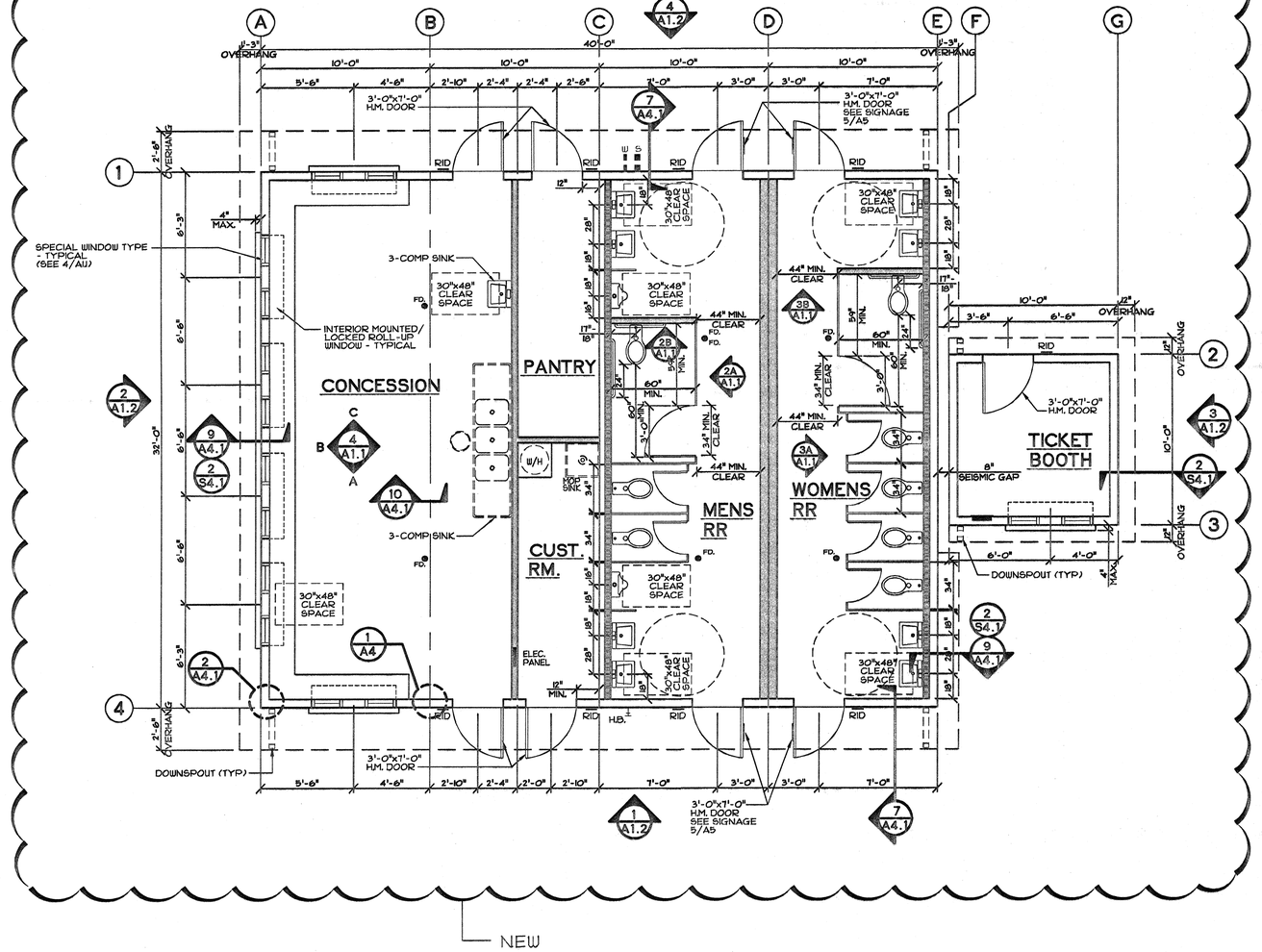
COVER SHEET, BUILDING CODES & C.B.C. DATA, SHEET INDEX

REV / DATE:	BY:

JOB No.: 14-03
DRAWN BY: HS
DATE: OCT 17 2014

CONFIDENTIAL MATERIAL–THESE DOCUMENTS ARE THE PROPERTY OF AND ARE NOT TO BE REPRODUCED OR DISTRIBUTED WITHOUT FULL KNOWLEDGE AND WRITTEN CONSENT FROM ENVIROPLEX, INC.
© COPYRIGHT ENVIROPLEX, INC. (ALL DRAWINGS PREPARED BY ENVIROPLEX, INC.)

AC



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

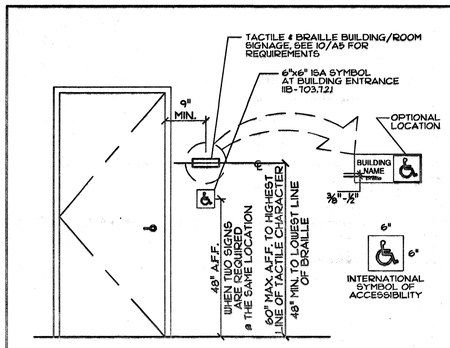
WALL LEGEND	
EXT. WALLS - 2x6 WOOD STUDS, 16"o.c.	
INT. FURRED WALLS - 2x4 WOOD STUDS, 16"o.c.	
INT. WALLS - 2x4 WOOD STUDS, 16"o.c.	

INSULATION VALUES
ROOF - R-19 EXTERIOR WALLS - R-13 INTERIOR WALLS - R-11

CONST. NOTES

DOOR SIGNAGE LEGEND:

BE	BUILDING ENTRANCE & I.S.A. SIGNAGE, (SEE 11/A1) (BY OWNER) - TYP.	
TE	TACTILE EXIT SIGNAGE, (SEE 12/A1) (BY OWNER) - (TYP)	
RID	ROOM IDENTIFICATION & I.S.A. SIGNAGE, (SEE 13/A1) (BY OWNER) - (TYP)	
TTR	TACTILE TOILET ROOM IDENTIFICATION SIGNAGE, (SEE 5/A5) (BY OWNER) - (TYP)	



2 BUILDING/ROOM ENTRANCE/ISA SIGNAGE
SCALE: 1/2"=1'-0"

1. CARPETS- ALL MODULES SHALL BE CARPETED WITH DIRECT GLUE DOWN TYPE PER STATE OF CALIFORNIA SPECIFICATION 7220-21K-01, GROUP 1, TYPE "A", CLASS 24. THE CARPET DENSITY SHALL BE 4600 MIN. PILE YARN SHALL BE BRANDED NYLON, INSTALLED WITH MINIMAL CROSS SEAMS. COLOR TO BE SELECTED BY OWNER.
2. RESILIENT BASE COVE- BEST QUALITY, MOULDED RUBBER, 1/8" THICK, 4" HIGH, MOULDED TOP SET COVE. SOLID COLORS AS MANUFACTURED BY "BURKE RUBBER CO." OR EQUAL.
3. ADHESIVES SHALL BE WATER BASE, SOLVENT BASE NOT ACCEPTABLE. FURNISH AND APPLY PER MANUFACTURER'S WRITTEN INSTRUCTIONS.
4. SEALANT- ROOF & MODULE LINE - POLYURETHANE
   SIDING & TRIM - ACRYLIC LATEX
5. PAINT- (EXTERIOR WOOD) PRIMER---------ACRYLIC UNDERCOAT
   FINISH---------ACRYLIC LATEX
   (METALS)------- PRIMER---------RED OXIDE ALKYD
   FINISH---------ACRYLIC LATEX
6. M.D.O. BUILDING, DOOR, & WINDOW TRIM. TRIM SHALL BE SEALED AT ALL EDGES SEALANT. PAINTED TO MATCH TRIM OR SIDING.
   EXTERIOR SIDING-8" O.C. GROOVED M.D.O. PLYWOOD OR STUCCO PATTERN FACED EXTERIOR SIDING. (MINIMUM NET THICKNESS 3/8")
7. HOLLOW METAL DOORS AND FRAMES- 3'0" x 7'0" x 1-3/4" 18 GA. FULL FLUSH METAL DOOR IN 16 GA. METAL FRAME.
   EXIT DOOR SHALL BE OPENABLE FROM THE INTERIOR WITHOUT A KEY OR SPECIAL KNOWLEDGE OR EFFORT.
   WHEN CLOSERS ARE PROVIDED FOR DOORS, CLOSERS SHALL BE SET FOR A MAXIMUM OPENING PRESSURE OF 5 LBS.
   DEADBOLTS NOT PERMITTED UNLESS OPERABLE WITH A SINGLE EFFORT USING LEVER HANDLE.
   DOOR SWINGS CAN BE RIGHT OR LEFT HAND HINGE.
   HARDWARE SHALL BE CENTERED BETWEEN 30" AND 44" ABOVE FINISHED FLOOR.
   - ALL DOORS TO CLASSROOMS, AND ANY ROOM WITH AN OCCUPANT LOAD OF 5 OR MORE PERSONS, SHALL BE EQUIPED WITH 'AB28' COMPLIANT HARDWARE.

   LOCKSET (LEVER MODEL): SCHLAGE ND50PD RHO (OR EQUAL) (TYP. UNLESS OTHERWISE NOTED)
   LOCKSET (PANIC DEVICE): VON DUPRIN CD99NL (OR EQUAL) (ONLY WHERE SPECIFIED ON PLANS)

   EXTERIOR HINGES -------- HAGER BB1279 N.R.P. 4-1/2" x 4-1/2" OR EQUAL
   INTERIOR HINGES -------- HAGER 1279 N.R.P. 4-1/2" x 4-1/2" OR EQUAL
   CLOSER---------- NORTON 8501BF OR EQUAL
   THRESHOLD---------- PEMKO 271A OR EQUAL
   DOOR BOTTOM---------- PEMKO 216AV OR EQUAL
   WEATHERSTRIP---------- PEMKO 299AV OR EQUAL
8. WINDOWS: FOR ALL CLIMATE ZONES - DOUBLE PANE, CLEAR, ALUM. FRAME W/ NFRC RATED U-VALUE = 0.65 AND SHGC = 0.34 MINIMUM IS REQUIRED (VINYL FRAME WINDOWS MAY BE USED AS LONG AS MINIMUM U-VALUE AND MINIMUM SHGC NOTED ABOVE ARE MET).

ROOFING
METAL ROOF:
PREFINISHED, UNPENETRATED INTERLOCKING, 26 GAGE MIN. GALVANIZED STEEL ROOF PANELS, MECH. CRIMPED STANDING SEAMS OVER SEAL-TITE #15 UNDERLAYMENT OVER 15/32" APA RATED, EXTERIOR GRADE PLYWOOD. (CLASS "B" FIRE RATING)

INSULATION
1. ALL INSULATION (INCLUDING PIPE INSULATION) SHALL COMPLY WITH CALIFORNIA QUALITY STANDARDS, CALIFORNIA BUILDING CODE SEC. 719 & 2603 FOR FOAM. MAX FLAME SPREAD: 25, MAX SMOKE DENSITY: 450

ROOF: ALL CLIMATE ZONES - R-19 FIBERGLASS BATTS REQUIRED (MIN.)

WALLS: ALL CLIMATE ZONES - R-13 FIBERGLASS BATTS REQUIRED (MIN.)

FLOOR: CLIMATE ZONES 1 THROUGH 16 - 11/2" POLYISOCYANURATE RIGID INSULATION (R-6.4 PER INCH OR GREATER)

IDENTIFICATION
NOTE: THE MANUFACTURER SHALL PLACE TWO PERMANENT METAL IDENTIFICATION TAG ON EACH MODULAR BUILDING MECHANICALLY FASTENED TO THE END WALL. THE TAG SHALL SHOW D.S.A. APPLICATION NUMBER, MANUFACTURER'S SERIAL NUMBER, PLANT INSPECTOR'S IDENTIFICATION MARK AND DESIGN FLOOR AND ROOF LIVE LOAD. PLACE ONE TAG ON EXTERIOR AND, ONE ON THE INTERIOR ABOVE CEILING LINE.

8 MATERIAL SPECIFICATIONS & NOTES
1. SAW LUMBER GRADED PER WEST COAST LUMBER INSPECTION BUREAU, RULE 17.
2. ALL FRAMING LUMBER SHALL BE DOUGLAS FIR #2, ALL BLOCKING SHALL BE DOUGLAS FIR #3,
3. LAG SCREWS AND SCREWS SHALL BE SCREWED AND NOT DRIVEN INTO PLACE.
4. LUMBER MAY BE REJECTED FOR BOXED HEART, EXCESSIVE WARP, TWIST, SPLIT, CHECK, FUNGUS, MOLD, OR ANY REASON PROVIDED BY GRADING RULES.

9 LUMBER NOTES
1. ALL MODULES MAY BE BUILT OPPOSITE HAND FROM THE WAY THEY ARE SHOWN
2. SIDEWALL & ENDWALL ELEVATIONS SHOWN ON THIS SHEET DEPICT NON-BEARING WALLS NOT REQUIRED FOR THE RESISTANCE OF VERTICAL OR LATERAL LOADS.

10 BUILDING AND WALL PANEL OPTIONS
DIVISION OF THE STATE ARCHITECT

CONFIDENTIAL MATERIAL-THESE DOCUMENTS ARE THE PROPERTY OF AND ARE NOT TO BE REPRODUCED OR DISTRIBUTED WITHOUT FULL KNOWLEDGE AND WRITTEN CONSENT FROM ENVIROPLEX, INC.
© COPYRIGHT ENVIROPLEX, INC. (ALL DRAWINGS PREPARED BY ENVIROPLEX, INC.)

APPROVALS

CYS
STRUCTURAL ENGINEERS INC
1500 River Park Drive, Suite 100
Sacramento, CA 95815
(916) 565-1555 (916) 565-1556 Fax
www.cysengineers.com

REGISTERED PROFESSIONAL ENGINEER ARTHUR ERNEST [illegible] No. S2030 EXP. 9/30/15 STRUCTURAL STATE OF CALIFORNIA

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

ENVIROPLEX, INC.
4777 E. CARPENTER ROAD STOCKTON, CA. 95215, (209) 466-8000

(1) 40'X32' R.R./CONCESSION and (1) 10'X10' TICKET BOOTH
FOR COLLEGE PARK HIGH SCHOOL
MT. DIABLO UNIFIED SCHOOL DISTRICT

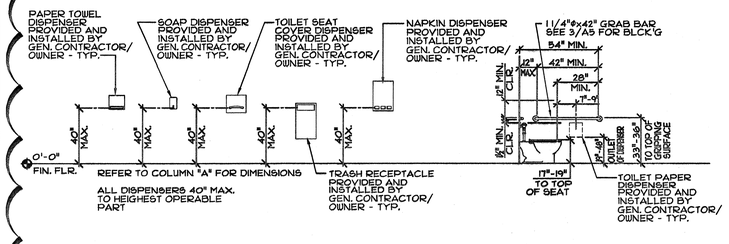
FLOOR PLAN, MATERIAL SPECIFICATIONS, & NOTES

REV / DATE:	BY:

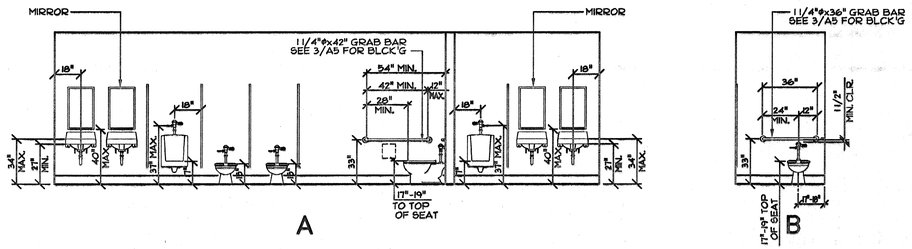
JOB No.:	14-033
DRAWN BY:	HS
DATE:	OCT 17 2014

THIS MODULAR BLDG. HAS BEEN ENGINEERED BY A REGISTERED STRUCTURAL ENGINEER AND PREVIOUSLY REVIEWED & APPROVED BY THE DIVISION OF THE STATE ARCHITECT, FIRE & LIFE SAFETY AND ACCESS COMPLIANCE SECTION

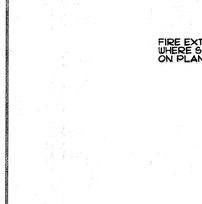
A1



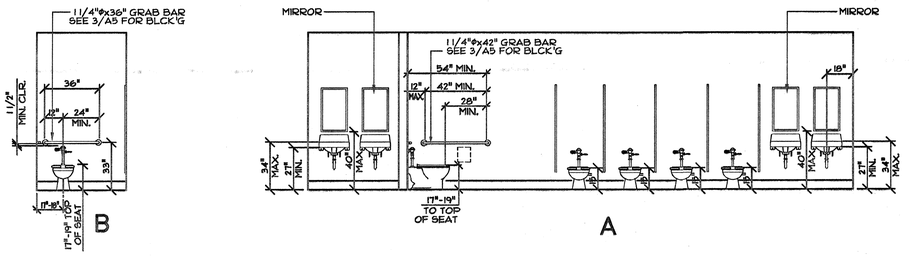
1 TYPICAL ACCESSIBLE MOUNTING HEIGHTS



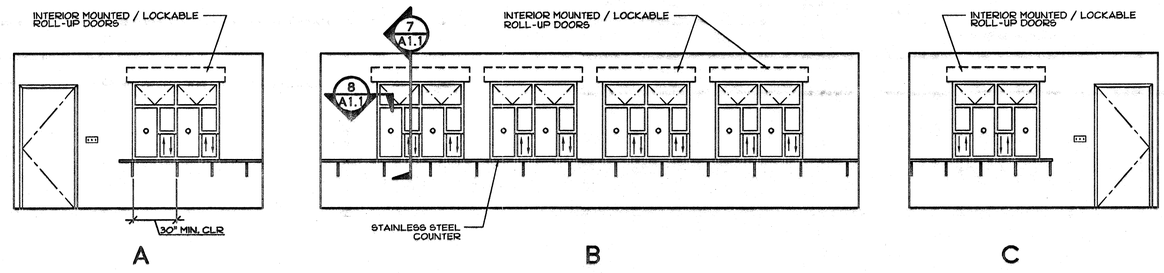
2 MENS RESTROOM INTERIOR ELEVATION
SCALE: 1/4"=1'-0"



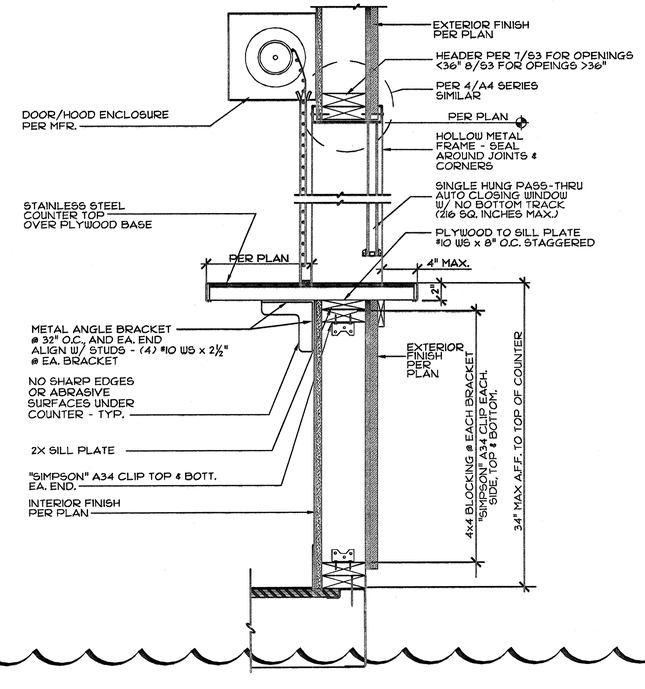
5 FIRE EXTINGUISHER MOUNTING HEIGHT
SCALE: 1/4"=1'-0"



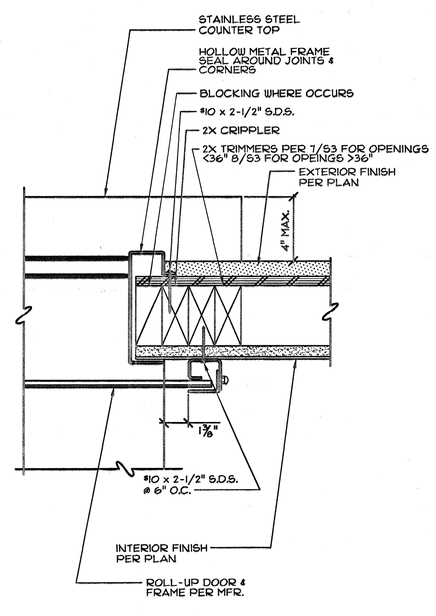
3 WOMENS RESTROOM INTERIOR ELEVATION
SCALE: 1/4"=1'-0"



4 CONSESSION ROOM INTERIOR ELEVATION
SCALE: 1/4"=1'-0"



7 SECTION @ SERVING WINDOW
SCALE: 1½"=1'-0"



* TYPICAL DETAIL AT EACH SIDE OF OPENING

8 SECTION @ SERVING WINDOW
SCALE: 3"=1'-0"

NEW

DIVISION OF THE STATE ARCHITECT

APPROVALS

CONFIDENTIAL MATERIAL—THESE DOCUMENTS ARE THE PROPERTY OF AND ARE NOT TO BE REPRODUCED OR DISTRIBUTED WITHOUT FULL KNOWLEDGE AND WRITTEN CONSENT FROM ENVIROPLEX, INC.
© COPYRIGHT ENVIROPLEX, INC. (ALL DRAWINGS PREPARED BY ENVIROPLEX, INC.)

CYS
STRUCTURAL ENGINEERS INC
1300 National Drive, Suite 104
Sacramento, CA 95834
(916) 928-3600 (916) 928-3644 Fax
www.cys-pe.com

REGISTERED PROFESSIONAL ENGINEER ARTHUR ERNEST [illegible] No. S2030 EXP. 9/30/15 STRUCTURAL STATE OF CALIFORNIA

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

ENVIROPLEX, INC.
4777 E. CARPENTER ROAD STOCKTON, CA. 95215, (209) 466-8000

(1) 40'x32' P.R.R./CONCESSION and (1) 10'x10' TICKET BOOTH
FOR COLLEGE PARK HIGH SCHOOL
MT. DIABLO UNIFIED SCHOOL DISTRICT

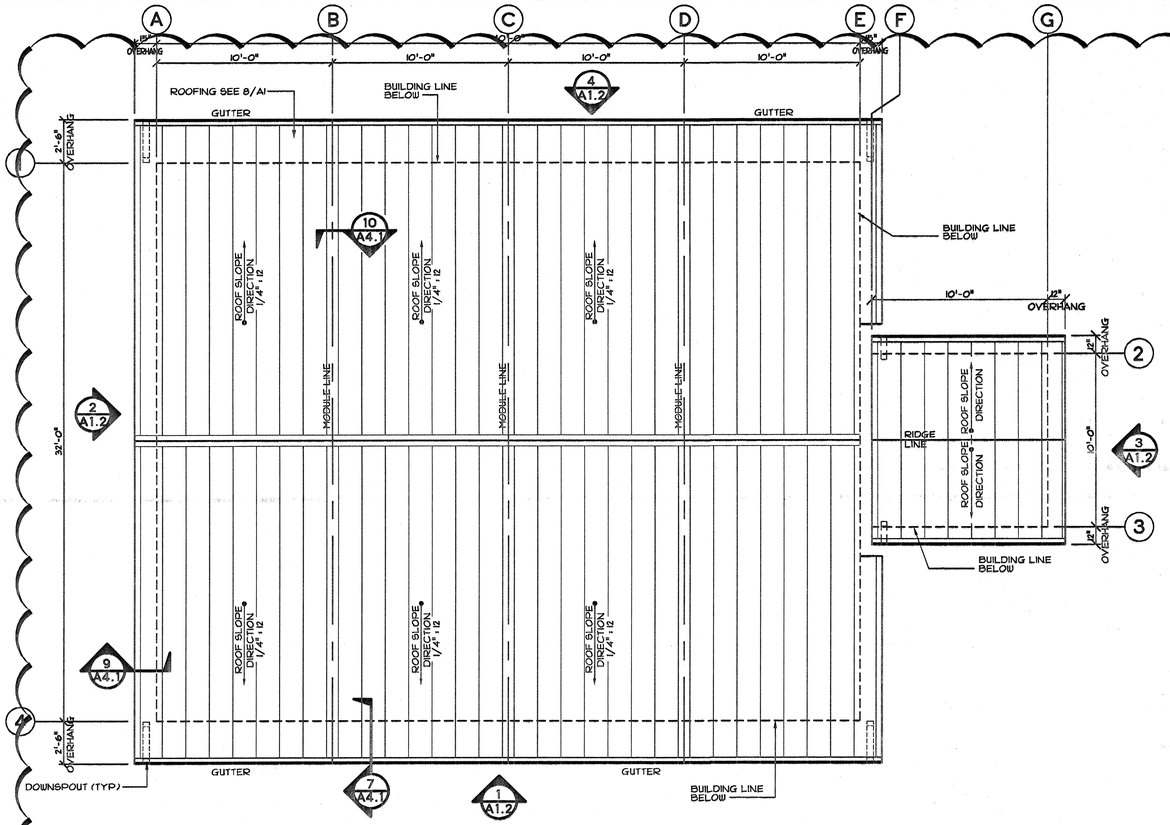
INTERIOR ELEVATIONS, DETAILS

REV / DATE:	BY:

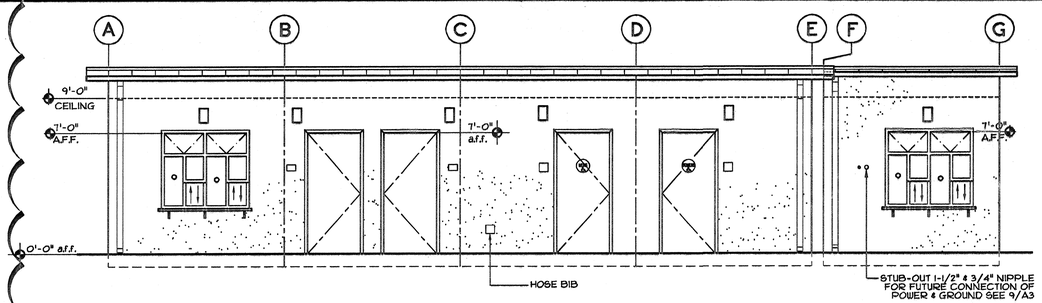
JOB No.:	14-033
DRAWN BY:	HS
DATE:	OCT 17 2014

THIS MODULAR BLDG. HAS BEEN ENGINEERED BY A REGISTERED STRUCTURAL ENGINEER AND PREVIOUSLY REVIEWED & APPROVED BY THE DIVISION OF THE STATE ARCHITECT, FIRE & LIFE SAFETY AND ACCESS COMPLIANCE SECTION

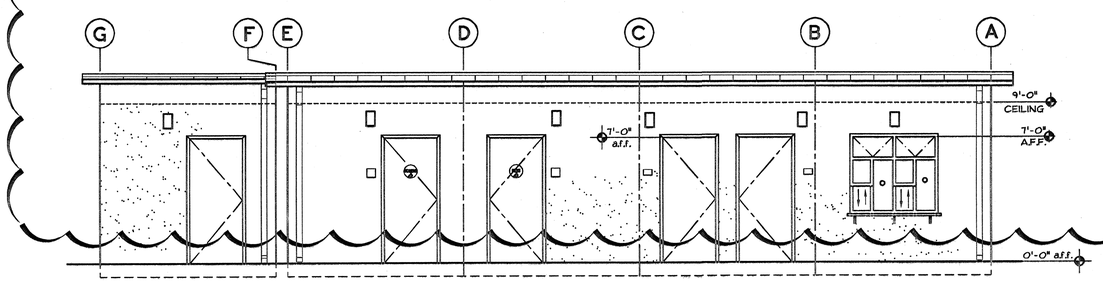
A1.1



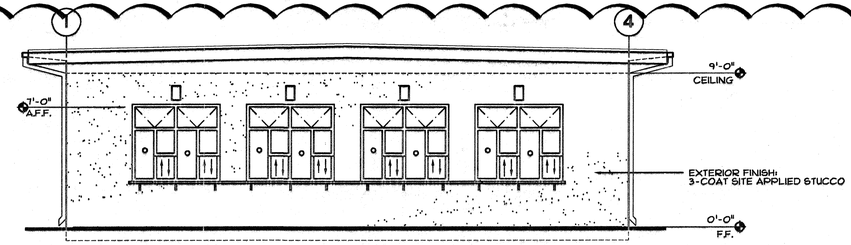
5 **ROOF PLAN**
SCALE: 1/4"=1'-0"



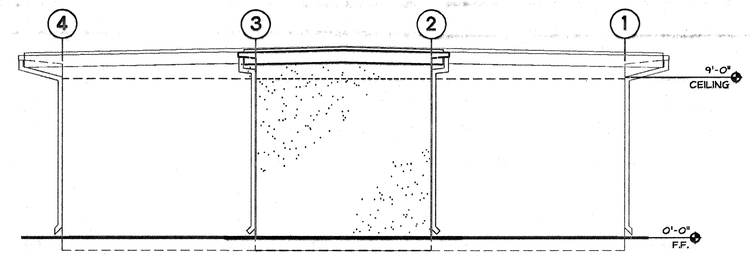
1 **EXTERIOR ELEVATION**
SCALE: 1/4"=1'-0"



4 **EXTERIOR ELEVATION**
SCALE: 1/4"=1'-0"



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



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

NEW

DIVISION OF THE STATE ARCHITECT

CONFIDENTIAL MATERIAL—THESE DOCUMENTS ARE THE PROPERTY OF AND ARE NOT TO BE REPRODUCED OR DISTRIBUTED WITHOUT FULL KNOWLEDGE AND WRITTEN CONSENT FROM ENVIROPLEX, INC.
© COPYRIGHT ENVIROPLEX, INC. (ALL DRAWINGS PREPARED BY ENVIROPLEX, INC.)

APPROVALS

CYS
STRUCTURAL ENGINEERS INC.
6363 Christie Ave., Suite 600
Emeryville, CA 94608
(510) 428-2900 (510) 428-2914 Fax
www.cysinc.com

REGISTERED PROFESSIONAL ENGINEER
ARTHUR ERNEST
No. S2080
EXP. 9/30/15
STRUCTURAL
STATE OF CALIFORNIA

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

ENVIROPLEX, INC.
4777 E. CARPENTER ROAD STOCKTON, CA. 95215. (209) 466-8000

(11) 40'x32' R.R./CONCESSION and (1) 10'x10' TICKET BOOTH
FOR COLLEGE PARK HIGH SCHOOL
MT. DIABLO UNIFIED SCHOOL DISTRICT

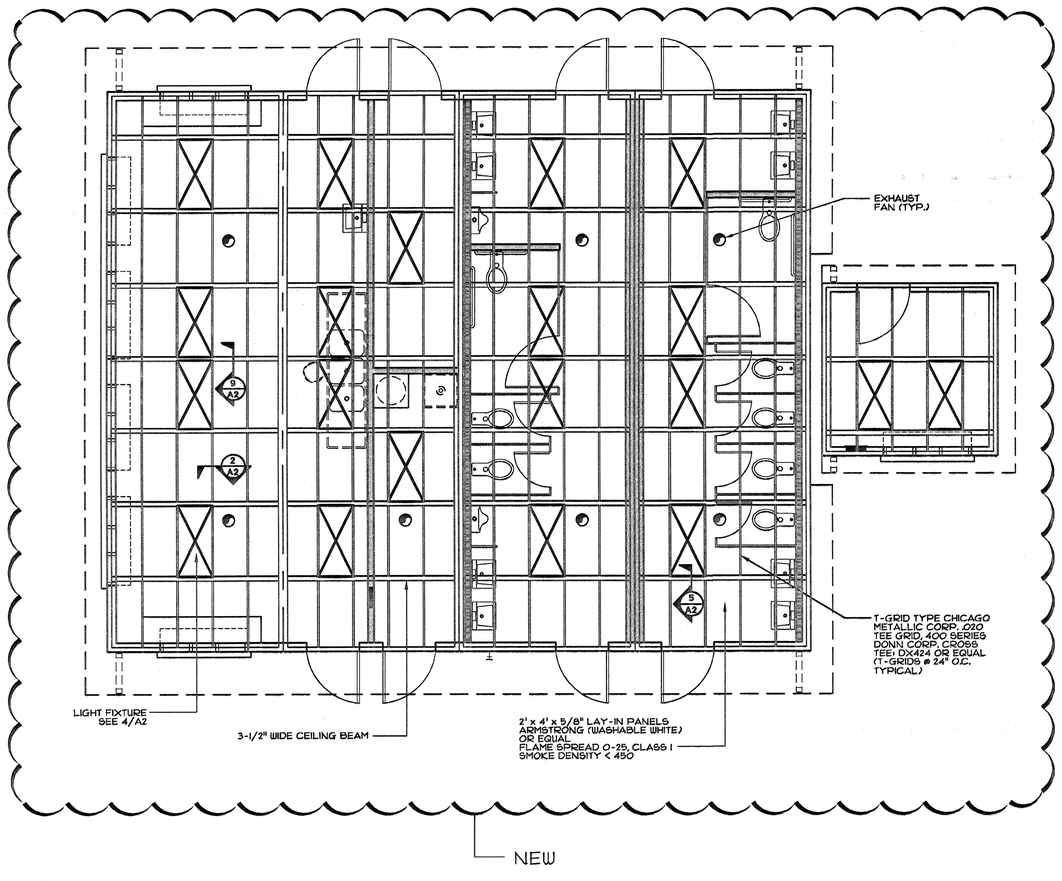
ROOF PLAN, EXTERIOR ELEVATIONS

REV / DATE:	BY:

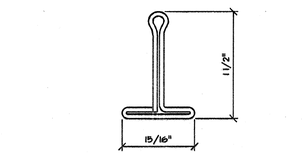
JOB No.:	14-033
DRAWN BY:	HS
DATE:	OCT 17 2014

THIS MODULAR BLDG. HAS BEEN ENGINEERED BY A REGISTERED STRUCTURAL ENGINEER AND PREVIOUSLY REVIEWED & APPROVED BY THE DIVISION OF THE STATE ARCHITECT, FIRE & LIFE SAFETY AND ACCESS COMPLIANCE SECTION

A1.2

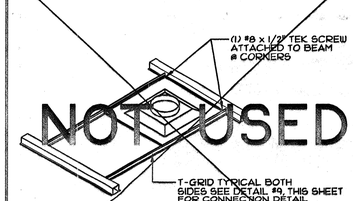


1 "MECHANICAL & REFLECTED CEILING PLAN
SCALE: 1/4"=1'-0"



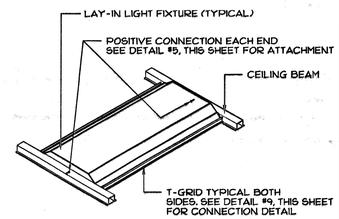
NOTE: T-GRID TO BE DONN CORP. CROSS TEE : DX424 OR CHICAGO METALLIC CORP. .020 TEE GRID, 400 SERIES OR EQUAL.

2 TYP. T-GRID SECTION
SCALE: FULL

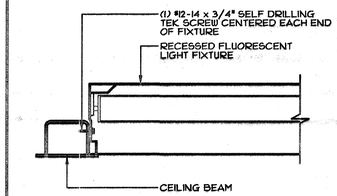


NOT USED

3 SUPPLY AIR REGISTER
SCALE: 1/2"=1'-0"



4 LAY-IN LIGHT FIXTURE
SCALE: 1/2"=1'-0"



5 LIGHT FIXTURE SUPPORT
SCALE: 3"=1'-0"

1. EXTERIOR HEAT PUMP
SINGLE PACKAGE WALL MOUNTED AIR TO AIR ELECTRIC HEAT PUMP UNIT SHALL BE RATED IN ACCORDANCE WITH ARI STANDARDS 240-77. (UL. LISTED)
REFERENCE BRANDS: "BARD" WH43, 3.5 TON, 12 SEER, 10.3 EER (OR EQUAL)
WIRING AND MNTG. INSTALLATION OF UNIT PER MANUFACTURER'S INSTRUCTIONS.
A) TWO SPEED INDOOR BLOWER MOTOR TO REDUCE INDOOR NOISE LEVEL.
B) AUX. HEAT - 7.5 KW HEAT STRIP
C) LOW TEMPERATURE OUTDOOR THERMOSTAT TO ASSIST CIRCUITING DURING THE HEATING MODE.
D) COOLING: 42000 BTUH, HEATING 37400 BTUH.
E) WEIGHT: 310# MAX

AIR FILTERS:
MINIMUM EFFICIENCY REPORTING VALUE (MERV) OF 8 (CGBS 5504.5.3).
AN APPROVED TYPE TESTED IN ACCORDANCE WITH TEST METHODS 6PM-12-71-AS SHOWN IN PART 12, TITLE 24, CALIFORNIA CODE OF REGULATIONS. PREFORMED FILTERS HAVING COMBUSTABLE FRAMING SHALL BE TESTED AS A COMPLETE ASSEMBLY. AIR FILTERS IN ALL OCCUPANCIES SHALL BE CLASS 2 OR BETTER. AS DEFINED IN THE TEST METHOD ABOVE, AIR FILTERS SHALL BE ACCESSIBLE FOR CLEANING OR REPLACEMENT.

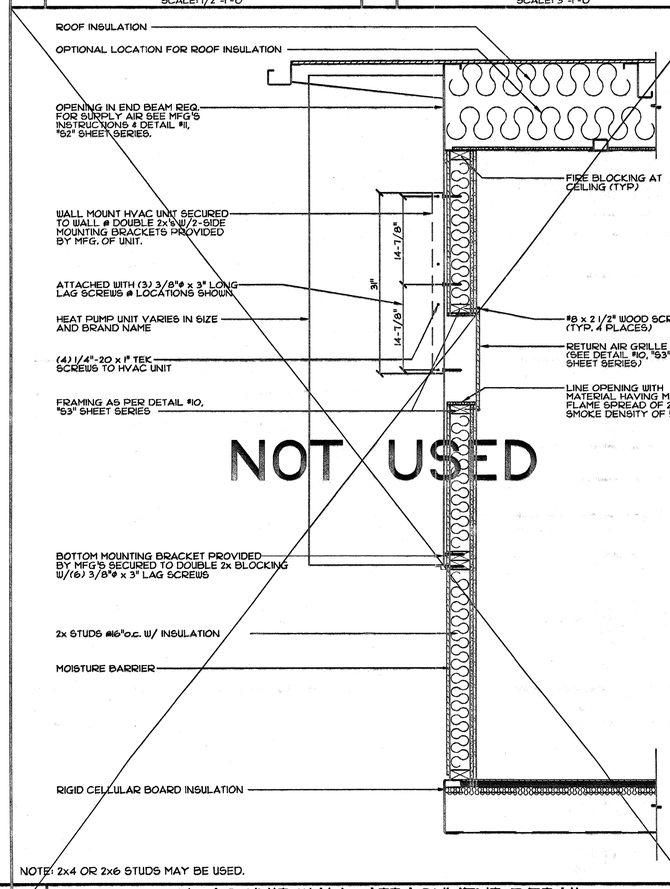
2. CONTROLS: (@ +48" MAXIMUM A.F.F.) - (TO TOP OF BOX)
THERMOSTAT: WHITE-ROGERS (1F85-275) DIGITAL (TAMPER PROOF).

3. DUCTS: MAY BE CLASS "I" OR "O"
FACTORY MADE AIR DUCTS SHALL BE APPROVED FOR THE USE INTENDED OR SHALL CONFORM TO THE REQUIREMENTS OF U.M.C. STANDARDS NO. 6-1. EACH PORTION OF A FACTORY MADE AIR DUCT SYSTEM SHALL BE INDENTIFIED BY THE MANUFACTURER WITH A LABEL OR OTHER SUITABLE IDENTIFICATION INDICATING COMPLIANCE WITH STANDARD NO. 6-1 AND ITS CLASSIFICATION. THESE DUCTS SHALL BE INSTALLED IN ACCORDANCE WITH THEIR RESPECTIVE LISTING. INSULATION APPLIED TO THE EXTERIOR SURFACE OF DUCTS LOCATED IN BUILDING SHALL HAVE A FLAME SPREAD RATING OF NOT MORE THAN 25 AND A SMOKE-DEVELOPED RATING OF NOT MORE 50 WHEN TESTED AS A COMPOSITE INSTALLATION INCLUDING INSULATION, FACING MATERIALS, TAPES AND ADHESIVE AS NORMALLY APPLIED. MATERIAL EXPOSED WITHIN DUCTS OR PLENUMS SHALL HAVE A FLAME SPREAD RATING OF NOT MORE THAN 25 AND A SMOKE DEVELOPED RATING OF NOT MORE THAN 50

4. COMBINED UNITS SUPPLYING GREATER THAN 2000 CFM REQUIRES DUCT SMOKE DETECTOR FOR AUTO SHUT-DOWN. INTERCONNECT WITH FIRE ALARM SYSTEM C.M.C. 609 UNLESS ALL OCCUPIED ROOMS SERVED BY THE AIR HANDLING EQUIPMENT HAVE DIRECT ACCESS TO EXTERIOR, AND TRAVEL DIST DOES NOT EXCEED 100 FT.

5. COVERING OF DUCT OPENINGS AND PROTECTION OF MECHANICAL EQUIPMENT DURING CONSTRUCTION. DURING ROUGH INSTALLATION, STORAGE ON CONSTRUCT. SITE, AND UNTIL FINAL STARTUP, ALL DUCTS AND OTHER RELATED AIR DISTRIBUTION COMPONENT OPENINGS SHALL BE COVERED WITH TAPE, PLASTIC, SHEET METAL, OR OTHER METHODS TO REDUCE THE AMOUNT OF DUST OR DEBRIS WHICH MAY COLLECT IN THE SYSTEM (CGBS SEC. 5.504.3.).

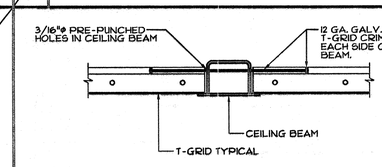
8 HVAC SPECIFICATIONS



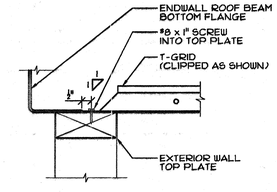
NOT USED

NOTE: 2x4 OR 2x6 STUDS MAY BE USED.

7 HVAC UNIT WALL ATTACHMENT DETAIL
SCALE: 1"=1'-0"



9 T-GRID CONNECTION DETAIL
SCALE: 3"=1'-0"



10 T-GRID CONNECTION DETAIL
SCALE: 3"=1'-0"

DIVISION OF THE STATE ARCHITECT

APPROVALS

CONFIDENTIAL MATERIAL-THESE DOCUMENTS ARE THE PROPERTY OF AND ARE NOT TO BE REPRODUCED OR DISTRIBUTED WITHOUT FULL KNOWLEDGE AND WRITTEN CONSENT FROM ENVIROPLEX, INC.
© COPYRIGHT ENVIROPLEX, INC. (ALL DRAWINGS PREPARED BY ENVIROPLEX, INC.)

CYS
STRUCTURAL ENGINEERS INC.
2440 Main Street, Suite 206
Riverside, CA 92501-1808
(951) 369-0700 (951) 369-1240 Fax
www.cysengineers.com

REGISTERED PROFESSIONAL ENGINEER
ARMEN BARSEGHYAN
No. S2030
EXP. 9/30/15
STRUCTURAL
STATE OF CALIFORNIA

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

ENVIROPLEX, INC.
4777 E. CARPENTER ROAD STOCKTON, CA. 95215, (209) 466-8000

(1) 40'x32' R.R./CONCESSION and (1) 10'x10' TICKET BOOTH
FOR COLLEGE PARK HIGH SCHOOL
MT. DIABLO UNIFIED SCHOOL DISTRICT

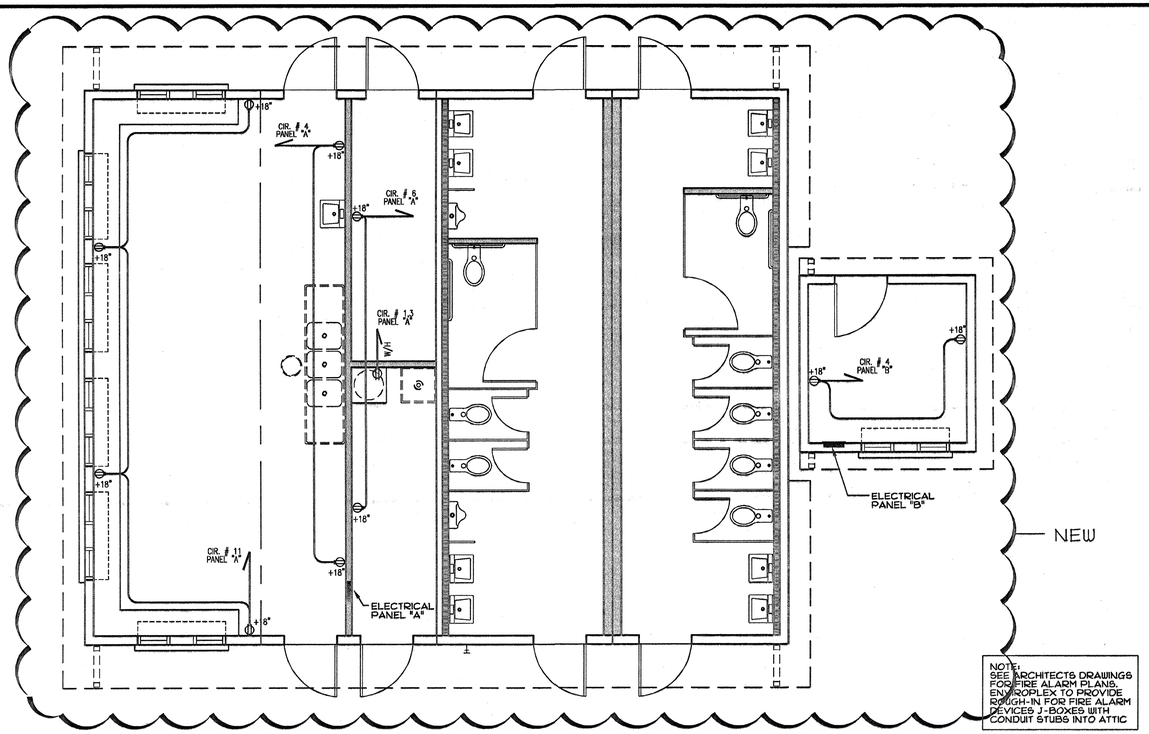
"EXTERIOR HVAC UNIT"
MECHANICAL & REFLECTED CEILING PLANS, HVAC WALL ATTACH., DETAILS, HVAC SPECIFICATIONS

REV / DATE:	BY:

JOB No.:	14-033
DRAWN BY:	HS
DATE:	OCT 17 2014

THIS MODULAR BLDG. HAS BEEN ENGINEERED BY A REGISTERED STRUCTURAL ENGINEER AND PREVIOUSLY REVIEWED & APPROVED BY THE DIVISION OF THE STATE ARCHITECT, FIRE & LIFE SAFETY AND ACCESS COMPLIANCE SECTION

A2



NOTE:
SEE ARCHITECTS DRAWINGS FOR FIRE ALARM PLANS. ENVIROPLEX TO PROVIDE ROUGH-IN FOR FIRE ALARM DEVICES J-BOXES WITH CONDUIT STUBS INTO ATTIC

1 ELECTRICAL POWER & SIGNAL PLAN

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

1. FIRE ALARM: FURNISHED BY OWNER AND SHALL CONFORM TO THE CALIFORNIA BUILDING CODE SECTION 907.2.3 AND CALIFORNIA ELECTRICAL CODE ARTICLE 760.
2. INSTALLATION OF THE FIRE ALARM SYSTEM SHALL NOT BE STARTED UNTIL DETAILED PLANS AND SPECIFICATIONS, INCLUDING STATE FIRE MARSHAL LISTING NUMBERS FOR EACH COMPONENT OF THE SYSTEM HAVE BEEN APPROVED BY D.S.A.
3. UPON COMPLETION OF THE INSTALLATION OF THE FIRE ALARM SYSTEM A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF THE PROJECT INSPECTOR.
4. ALARMS/EMERGENCY WARNING SYSTEMS/ACCESSIBILITY.
   IF EMERGENCY WARNING SYSTEMS ARE PROVIDED, THEY SHALL INCLUDE BOTH AUDIBLE ALARMS AND VISUAL ALARMS COMPLYING WITH NFPA 72 AND CHAPTER 9, SECTIONS 907.5.2 AND 907.5.2.1

2 FIRE PROTECTION

- DUPLEX RECEPTACLE @+15" MIN. A.F.F. (TO BOTTOM OF BOX) OR 18" A.F.F. TO CENTERLINE OF BOX. (UNLESS OTHERWISE NOTED)
- PROGRAMMABLE DIGITAL THERMOSTAT FOR HVAC UNIT @+48" MAX. A.F.F. (TO TOP OF OPERABLE PART)
- J — JUNCTION BOX (SIZE AND INSTALLATION HEIGHT AS NOTED)
- WH — WATER PROOF BELL BOX UNDER EAVE @+9'-4" (U.O.N.) FOR FUTURE FIRE ALARM AUDIBLE WARNING DEVICE SEE NOTE NO. 1 OF FIRE PROTECTION
- P — JUNCTION BOX @+48" A.F.F. (TO TOP OF BOX) FOR FUTURE FIRE ALARM PULL STATION - SEE NOTE NO. 1 OF FIRE PROTECTION ABOVE
- V — JUNCTION BOX @+90" (U.O.N.) FOR FUTURE FIRE ALARM HORN/STROBE DEVICE - SEE NOTE NO. 1 OF FIRE PROTECTION ABOVE
- I — JUNCTION BOX @+48" A.F.F. (TO TOP OF BOX) (U.O.N.) FOR FUTURE INTERCOM
- EXTERIOR INCANDESCENT LIGHT FIXTURE @ +96" A.F.F. (U.O.N.)
- S — LIGHT SWITCH (@+48" MAX. A.F.F TO TOP OF BOX).
- S^{OS} — LIGHT SWITCH WITH OCCUPANCY SENSOR (@+48" MAX A.F.F. TO TOP OF BOX).
- OS — CEILING MOUNT OCCUPANCY SENSOR
- HT — OPTIONAL JUNCTION BOX IN ATTIC FOR FUTURE HEAT DETECTOR (DEVICES AND INTERCONNECTING CONDUITS BY OTHERS @ SITE)
- S — OPTIONAL JUNCTION BOX IN ATTIC FOR FUTURE SMOKE DETECTOR (DEVICES AND INTERCONNECTING CONDUITS BY OTHERS @ SITE)

1. WALL CLOCK (BY OWNER):
   PROVIDE SINGLE CLOCK RECEPTACLE 115 VAC (OR EQUAL).
2. ELECTRICAL PANEL:
   FLUSH MOUNTED W/ HINGED DOORS AND INDEXED CARD HOLDERS CIRCUIT BREAKER(S) WILL HAVE AN APPROPRIATE UL. LABEL LISTING.
3. RECEPTACLES:
   "LEVITON", "HUBBEL" (OR EQUAL)
4. LIGHT SWITCHES:
   "LEVITON", "HUBBEL" (OR EQUAL)
5. LIGHTING FIXTURE:
   2' x 4' FLUORESCENT LAY-IN TYPE FIXTURES, T-8 W/ REDUCED OUTPUT ELECTRONIC BALLASTS, (4) LAMPS PER FIXTURE MAXIMUM INPUT 128 WATTS. "COOPER", "LITHONIA" (OR EQUAL).
6. ELECTRIC METALLIC TUBING:
   COUPLINGS AND FLEX CONDUIT GALVANIZED OR SHERARDIZED.
7. CONDUCTORS:
   COPPER, INSULATED FOR 600 VOLTS, TYPE THHN FOR SIZES #12 TO #6 TYPE THW FOR LARGER SIZES. MINIMUM SIZE #12. LIGHTING & OUTLETS USE MINIMUM SIZE #12, SIZE HVAC WIRING PER LOAD.
8. SEE SHEET A2 FOR HVAC & THERMOSTAT SPECIFICATION.
9. SUPPLEMENTAL ELECTRICAL POWER SYSTEM (OPTIONAL):
   "UNI-SOLAR" PHOTOVOLTAIC LAMINATE (PVL) SOLAR ELECTRIC ROOF PANELS. FACTORY OR FIELD INSTALLED IN 18'-0" LONG x 15" WIDE x 0.12" THICK FLEXIBLE SHEETS (WT. = 0.75 P.S.F.) ADHESIVE BONDED TO GALV. STANDING SEAM METAL ROOF PANS.
   SOLAR ELECTRIC SYSTEM SHALL BE INSTALLED WITH ALL NECESSARY COMPONENTS AND EQUIPMENT TO GENERATE SUPPLEMENTAL ELECTRICAL POWER (FLEXIBLE SOLAR PANELS, WIRING, CONDUIT/WIRE WAYS, DISCONNECTS, INVERTER, AND OPTIONAL BATTERY BACKUP, ETC.)
10. ILLUMINATED EXIT SIGNS:
    IF REQUIRED BY CODE, SHALL BE PROVIDED IN COMPLIANCE W/ C.B.C. 1011 & 1006.
11. MEANS OF EGRESS ILLUMINATION:
    WHERE (2) OR MORE EXITS ARE REQUIRED, SUCH EXITS SHALL HAVE INTERIOR AND EXTERIOR LANDINGS ILLUMINATED BY FIXTURES CAPABLE OF AUTOMATIC EMERGENCY POWER OF NOT LESS THAN 90 MINUTES. (INCLUDES AISLES, UNENCLOSED STAIRWAYS, CORRIDORS, EXTERIOR EGRESS COMPONENTS AT OTHER THAN LEVEL OF DISCHARGE, LABS, SHOPS, AND WINDOWLESS AREAS WITH STUDENT OCCUPANCY).
12. PROVIDE OCCUPANCY SENSORS OR AUTOMATIC TIMER DEVICE WITH MANUAL OVERRIDE.

3 ELECTRICAL SPECIFICATIONS

PANEL SCHEDULE: "A" — VOLTS: 120/208
MOUNTING: INTERIOR FLUSH (NEMA 1) — PHASE: 3φ
PANEL: 125 AMP RATED — WIRE: 4W
MAIN BREAKER: 125A

DESCRIPTION	LOAD A	LOAD B	LOAD C	BRKR	CIRCUIT #	MAIN 125A A	B	C	CIRCUIT #	BRKR	LOAD A	LOAD B	LOAD C	DESCRIPTION
WATER HEATER	4000			90/2	1				2					
		4000			3				4	20/1		360		OUTLETS
LIGHTING A-B			800	20/2	5				6	20/1			360	OUTLETS
	400				7				8					
					9				10					
OUTLETS			720	20/1	11				12					
					13				14					
					15				16					
					17				18					
					19				20					
					21				22					
					23				24					

LEG A: 4400 W
LEG B: 4360 W
LEG C: 1880 W
TOTAL: 10640 W — AMPS: 30

14 PANEL SCHEDULE "A"

PANEL SCHEDULE: "B" — VOLTS: 120/208
MOUNTING: INTERIOR FLUSH (NEMA 1) — PHASE: 3φ
PANEL: 60A AMP RATED — WIRE: 4W
MAIN BREAKER: 60A

DESCRIPTION	LOAD A	LOAD B	LOAD C	BRKR	CIRCUIT #	MAIN 60A A	B	C	CIRCUIT #	BRKR	LOAD A	LOAD B	LOAD C	DESCRIPTION
LIGHTING A-B	800			20/2	1				2					
		400			3				4	20/1		360		OUTLETS
					5				6					
					7				8					
					9				10					
					11				12					

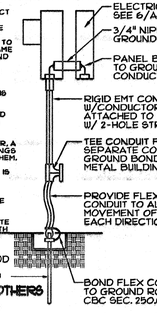
LEG A: 800 W
LEG B: 400W
LEG C: 360 W
TOTAL: 1560 W — AMPS: 4

15 PANEL SCHEDULE "B"

DIVISION OF THE STATE ARCHITECT

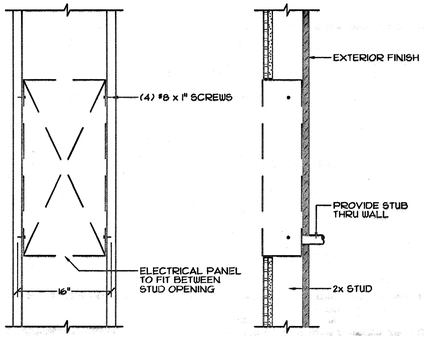
4 ELECTRICAL LEGEND

NOTES:
METER AND GROUND ARE NOT PART OF THIS CONTRACT TO BE PROVIDED BY OTHERS
1. SIZE OF CONDUCTORS SHALL COMPLY W/CEC TABLE 250.66.
2. BOND SEPARATE CONDUCTORS FROM GROUND ROD TO ELECTRICAL PANEL AND TO METAL OF BUILDING FRAME (CEC. 250.52) IN ADDITION TO THE DETAIL SHOWN BOND THE ELECTRICAL GROUND TO METAL WATER PIPE EMBEDDED AT LEAST 10' INTO THE SOIL IF AVAILABLE (CEC. 250.52)
3. ALL MODULES OF METAL FRAME BUILDING SHALL BE ELECTRICALLY BONDED TOGETHER, (BOLTING ONLY IS NOT ACCEPTABLE BONDING.)
4. CHECK RESISTANCE TO GROUND. IF RESISTANCE EXCEEDS 25 OHMS, INSTALL ADDITIONAL GROUND ROD GREATER THAN 6'-0" AWAY (C.E.C. 250.56) ONCE THE SECOND GROUND ROD IS INSTALLED, ADDITIONAL RESISTANCE TESTING IS NOT REQUIRED.
5. WHERE MODULAR BUILDINGS ARE GROUPED TOGETHER, A GROUND ROD MAY BE INSTALLED AT THE END BUILDINGS AND A GROUND RING MAY BE INSTALLED BETWEEN THEM. EACH INTERMEDIATE MODULAR BUILDING MAY BE BONDED TO THAT GROUND RING. WHERE THIS METHOD IS USED, GROUND RESISTANCE TESTING SHALL NOT BE REQUIRED.
6. WHERE MODULAR BUILDINGS ARE INSTALLED ON CONCRETE FOUNDATIONS, A UFER GROUND SHALL BE INSTALLED IN THE FOOTING PER (C.E.C. 250.52 (A)(3).
7. OTHER GROUNDING METHODS IDENTIFIED IN C.E.C.250 SHALL BE ACCEPTABLE MEANS TO ACHIEVE ADEQUATE GROUNDING OF METAL BUILDINGS IN COMPLIANCE WITH THE ABOVE.



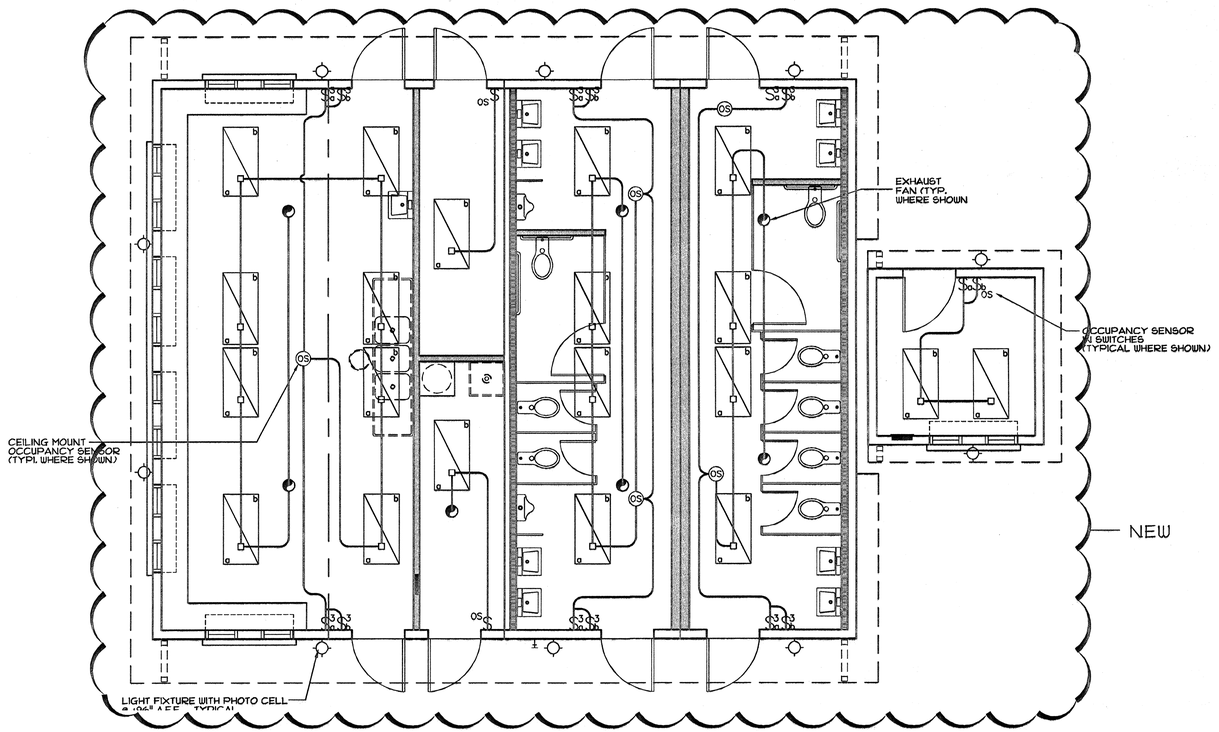
NOTE: GROUND TO BE PROVIDED BY OTHERS
GROUNDING TEST ARE TO BE OBSERVED AND REPORTED BY THE INSPECTOR OF RECORD.

6 ELECTRICAL GROUND



8 LIGHTING PLAN

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



9 ELECTRICAL PANEL INSTALLATION

SCALE: 1"=1'-0"

CONFIDENTIAL MATERIAL—THESE DOCUMENTS ARE THE PROPERTY OF AND ARE NOT TO BE REPRODUCED OR DISTRIBUTED WITHOUT FULL KNOWLEDGE AND WRITTEN CONSENT FROM ENVIROPLEX, INC.
© COPYRIGHT ENVIROPLEX, INC. (ALL DRAWINGS PREPARED BY ENVIROPLEX, INC.)

APPROVALS

CYS
STRUCTURAL ENGINEERS INC.
3445 Sacramento, CA 95817 (916) 456-4656
Sacramento, CA 95825 (916) 456-4660 Fax
(916) 349-0909 (916) 349-1550 Fax
www.cysinc.com

REGISTERED PROFESSIONAL ENGINEER — No. S2030 EXP. 9/30/15 — STRUCTURAL — STATE OF CALIFORNIA

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

ENVIROPLEX, INC.
4777 E. CARPENTER ROAD STOCKTON, CA. 95215, (209) 465-8000

(1) 40'x32' R.R./CONCESSION and (1) 10'x10' TICKET BOOTH
FOR COLLEGE PARK HIGH SCHOOL
MT. DIABLO UNIFIED SCHOOL DISTRICT

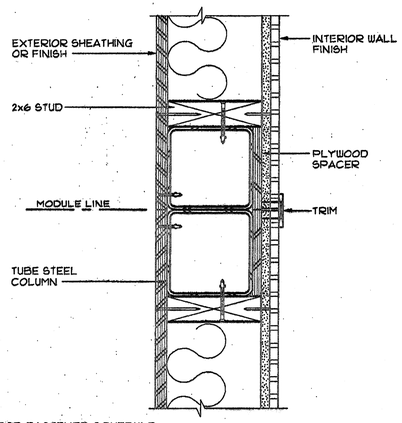
ELECTRICAL POWER PLAN, SIGNAL PLAN, LIGHTING PLAN, DETAILS, ELECTRICAL NOTES

REV / DATE:	BY:

JOB No.: 14-033
DRAWN BY: HS
DATE: OCT 17 2014

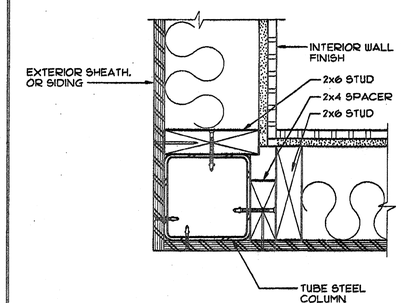
THIS MODULAR BLDG. HAS BEEN ENGINEERED BY A REGISTERED STRUCTURAL ENGINEER AND PREVIOUSLY REVIEWED & APPROVED BY THE DIVISION OF THE STATE ARCHITECT, FIRE & LIFE SAFETY AND ACCESS COMPLIANCE SECTION

A3



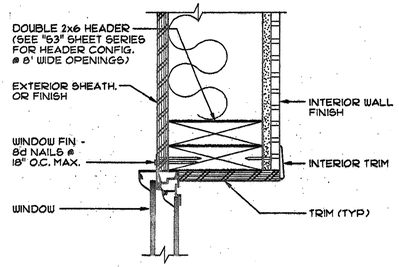
FOR FASTENER SCHEDULE, SEE "S3" SHEETS

1 SECTION - COLUMN @ MOD. LINE
SCALE: 3"=1'-0"



FOR FASTENER SCHEDULE, SEE "S3" SHEETS

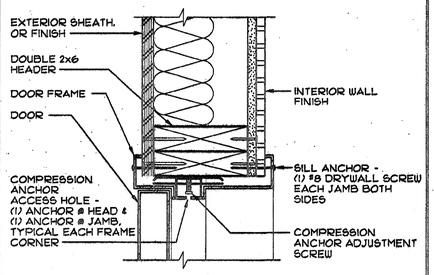
2 SECTION - COLUMN @ CORNER
SCALE: 3"=1'-0"



SECTION @ WINDOW JAMB IS SIMILAR

FOR FASTENER SCHEDULE, SEE "S3" SHEETS

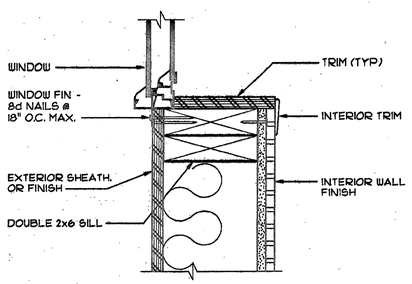
3 SECTION - WINDOW HEADER
SCALE: 3"=1'-0"



SECTION @ DOOR JAMB IS SIMILAR

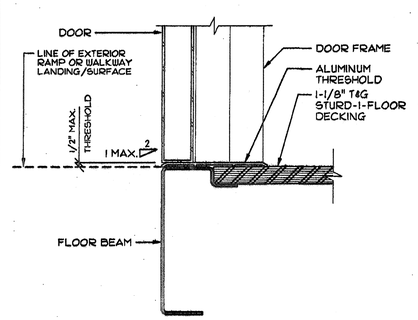
FOR FASTENER SCHEDULE, SEE "S3" SHEETS

4 SECTION - DOOR HEADER
SCALE: 3"=1'-0"

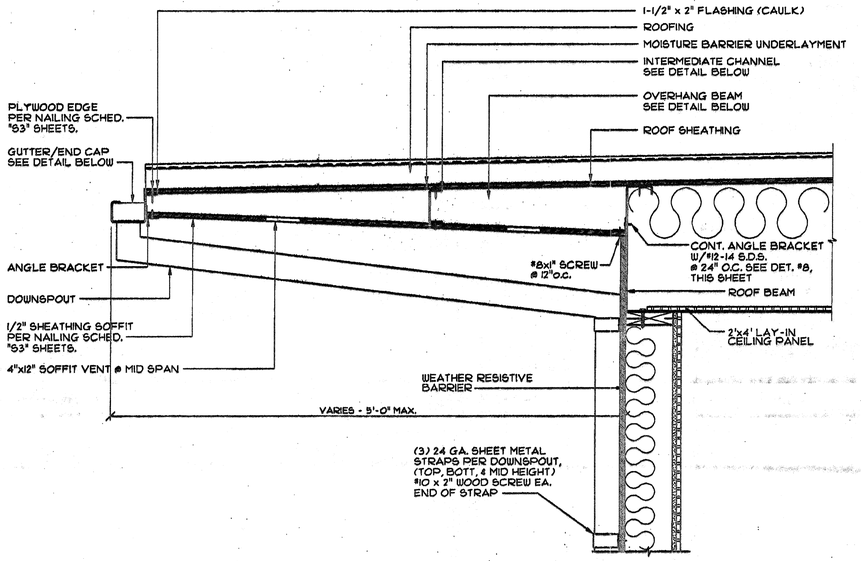


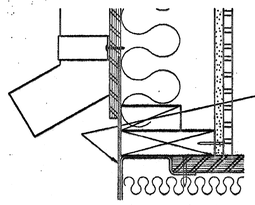
FOR FASTENER SCHEDULE, SEE "S3" SHEETS

5 SECTION - WINDOW SILL
SCALE: 3"=1'-0"

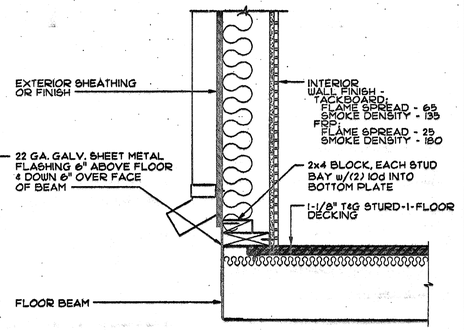


6 SECTION - DOOR THRESHOLD
SCALE: 3"=1'-0"



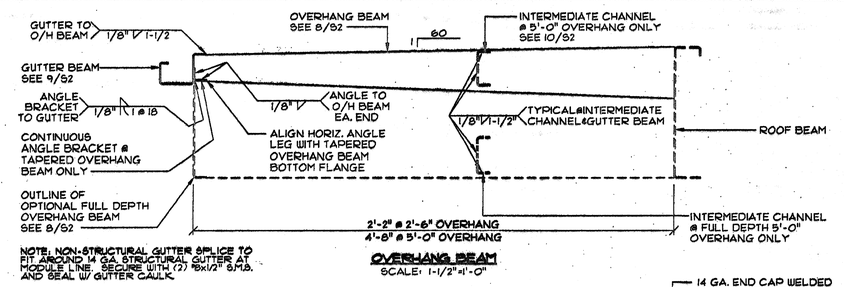


WALL BASE FLASHING
SCALE: 3"=1'-0"

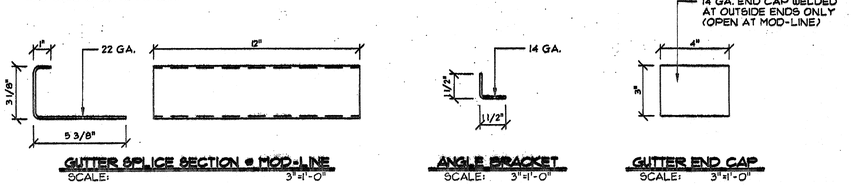


FOR FASTENER SCHEDULE, SEE "S3" SHEETS

7 SECTION - FRONT OVERHANG (REAR SIMILAR)
SCALE: 1 1/2"=1'-0"



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

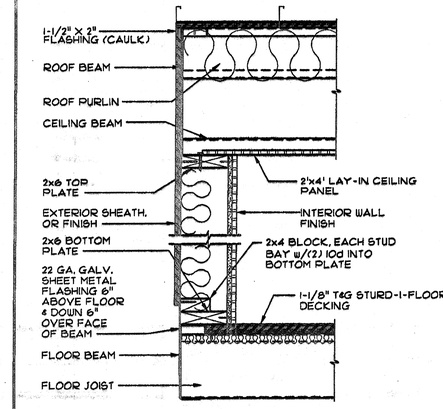


GUTTER SPLICE SECTION @ MOD-LINE
SCALE: 3"=1'-0"

ANGLE BRACKET
SCALE: 3"=1'-0"

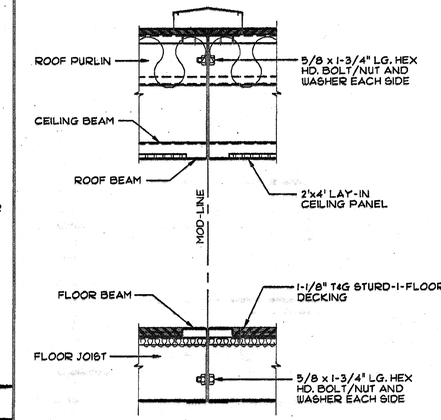
GUTTER END CAP
SCALE: 3"=1'-0"

8 OVERHANG & GUTTER DETAILS
SCALE: AS NOTED



FOR FASTENER SCHEDULE, SEE "S3" SHEETS

9 SECTION - @ SIDEWALL
SCALE: 1 1/2"=1'-0"



10 SECTION - @ MODULE LINE
SCALE: 1 1/2"=1'-0"

DIVISION OF THE STATE ARCHITECT

PRE-CHECK (PC) DOCUMENT
Code: 2010 CBC
A separate project application for construction is required.

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
02-112287
AC. FLEMING SS
DATE 4-11-12

CONFIDENTIAL MATERIAL-THESE DOCUMENTS ARE THE PROPERTY OF AND ARE NOT TO BE REPRODUCED OR DISTRIBUTED WITHOUT FULL KNOWLEDGE AND WRITTEN CONSENT FROM ENVIROPLEX, INC.
© COPYRIGHT ENVIROPLEX, INC. (ALL DRAWINGS PREPARED BY ENVIROPLEX, INC.)

APPROVALS

CYS
STRUCTURAL ENGINEERS, INC.
1760 Creekside Oaks Dr., Suite 280
Sacramento, CA 95833
(916)920-2020 (916)920-1556 Fax
www.cysse.com

APR 10 2012

REGISTERED PROFESSIONAL ENGINEER
KATHRYN "ERNESTY" SOSS
No. S2020
EXP. 9/30/13
STRUCTURAL
STATE OF CALIFORNIA

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

ENVIROPLEX, INC.
4777 E. CARPENTER ROAD STOCKTON, CA. 95215, (209) 466-8000

BI-PITCH ROOF SECTIONS AND DETAILS (2x6 EXTERIOR WALLS)

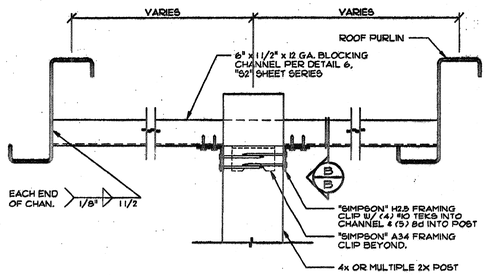
REV / DATE:	BY:

JOB No.:
DRAWN BY:
DATE:

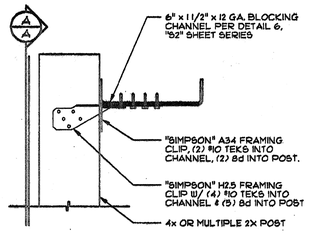
THIS MODULAR BLDG. HAS BEEN ENGINEERED BY A REGISTERED STRUCTURAL ENGINEER AND PREVIOUSLY REVIEWED & APPROVED BY THE DIVISION OF THE STATE ARCHITECT, FIRE & LIFE SAFETY AND ACCESS COMPLIANCE SECTION

A4.1

30"x42" TO 15"x32" P.C.



SECTION A-A

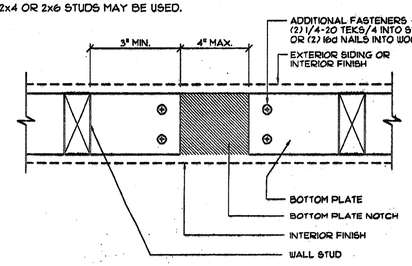


SECTION B-B

11 TOP CONNECTION - FULL HT. POST FOR HALF WALLS

SCALE: 3"=1'-0"

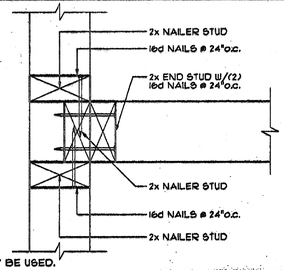
NOTE: 2x4 OR 2x6 STUDS MAY BE USED.



FOR FASTENER SCHEDULE, SEE "53" SHEETS

1 ALLOWABLE BOTTOM PLATE NOTCH

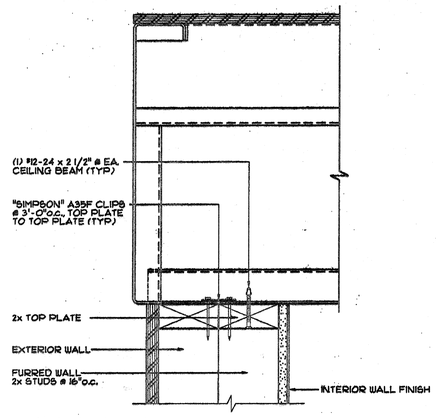
SCALE: 3"=1'-0"



NOTE: 2x4 OR 2x6 STUDS MAY BE USED.

4 PERPENDICULAR WALL CONNECTION

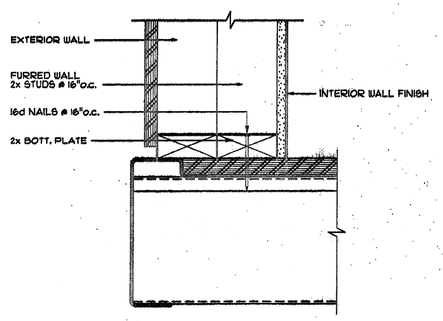
SCALE: 3"=1'-0"



NOTE: 2x4 OR 2x6 STUDS MAY BE USED.

6 FURRED WALL - TOP PLATE CONNECTION

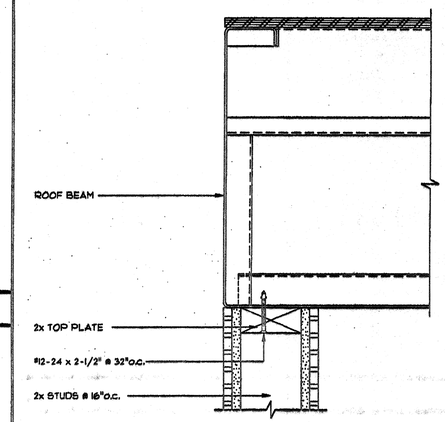
SCALE: 3"=1'-0"



NOTE: 2x4 OR 2x6 STUDS MAY BE USED.

9 FURRED WALL - BOTTOM PLATE CONNECTION

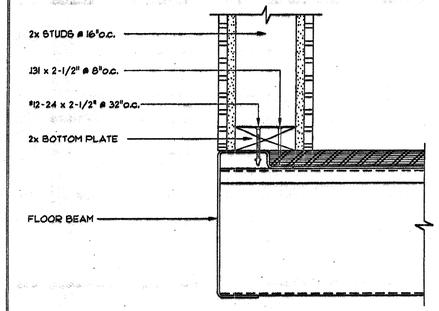
SCALE: 3"=1'-0"



NOTE: 2x4 OR 2x6 STUDS MAY BE USED.

2 INT. TOP PLATE TO ROOF BEAM

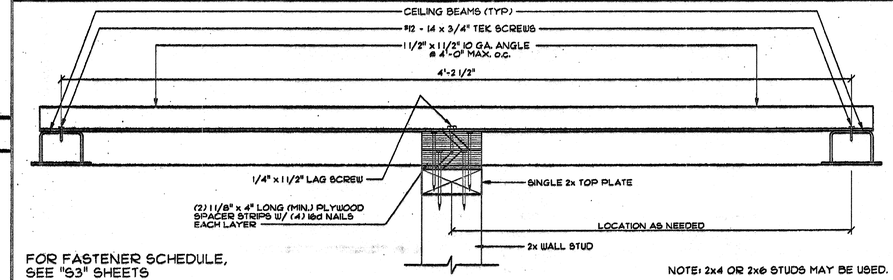
SCALE: 3"=1'-0"



NOTE: 2x4 OR 2x6 STUDS MAY BE USED.

3 INT. BOTTOM PLATE TO FLOOR BEAM

SCALE: 3"=1'-0"

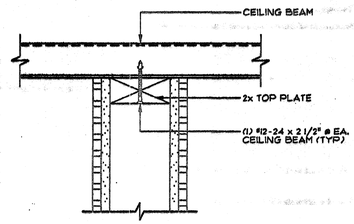


FOR FASTENER SCHEDULE, SEE "53" SHEETS

NOTE: 2x4 OR 2x6 STUDS MAY BE USED.

5 TOP PLATE ATTACHMENT BETWEEN CEILING BEAMS

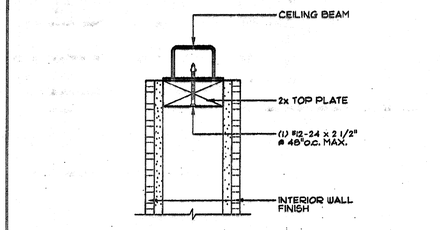
SCALE: 3"=1'-0"



NOTE: 2x4 OR 2x6 STUDS MAY BE USED.

7 TOP PLATE TO CEILING BEAM

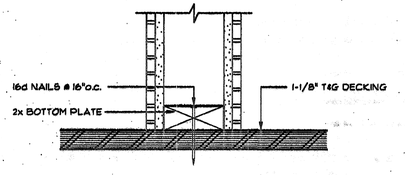
SCALE: 3"=1'-0"



NOTE: 2x4 OR 2x6 STUDS MAY BE USED.

8 TOP PLATE TO CEILING BEAM

SCALE: 3"=1'-0"



NOTE: 2x4 OR 2x6 STUDS MAY BE USED.

10 BOTTOM PLATE TO FLOOR

SCALE: 3"=1'-0"

DIVISION OF THE STATE ARCHITECT

PRE-CHECK (PC) DOCUMENT
Code: 2010 CBC
A separate project application for construction is required.

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
02-112287
AC. [signature]
DATE 4-11-17

CONFIDENTIAL MATERIAL-THESE DOCUMENTS ARE THE PROPERTY OF AND ARE NOT TO BE REPRODUCED OR DISTRIBUTED WITHOUT FULL KNOWLEDGE AND WRITTEN CONSENT FROM ENVIROPLEX, INC.
© COPYRIGHT ENVIROPLEX, INC. (ALL DRAWINGS PREPARED BY ENVIROPLEX, INC.)

APPROVALS

CYS
Structural Engineers Inc.
1760 Creekside Oaks Dr. Suite 280
Sacramento, CA 95833
(916) 920-1555 FAX 920-1556
www.cysceng.com

REGISTERED PROFESSIONAL ENGINEER
RETRACTED "EXPIRES" 8/30/13
No. 62030
EXP. 8/30/13
STRUCTURAL
STATE OF CALIFORNIA

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

ENVIROPLEX, INC.
4777 E. CARPENTER ROAD STOCKTON, CA. 95215, (209) 466-8000

INTERIOR WALL CONNECTION DETAILS

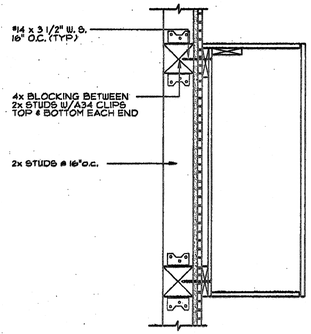
REV / DATE:	BY:

JOB No.:
DRAWN BY:
DATE:

THIS MODULAR BLDG. HAS BEEN ENGINEERED BY A REGISTERED STRUCTURAL ENGINEER AND PREVIOUSLY REVIEWED & APPROVED BY THE DIVISION OF THE STATE ARCHITECT, FIRE & LIFE SAFETY AND ACCESS COMPLIANCE SECTION

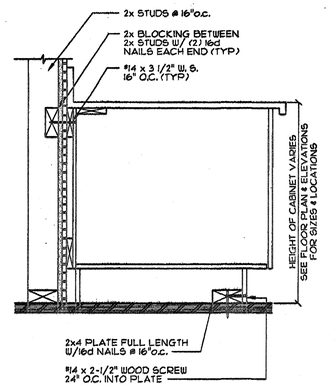
A4H

30'x32' TO 150'x32' P.C.



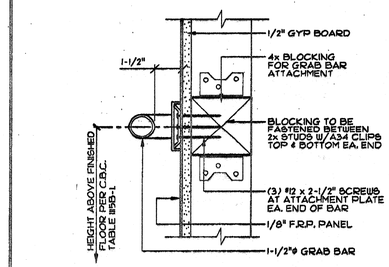
NOTE: 2x4 OR 2x6 STUDS MAY BE USED.

1 UPPER CABINET BLOCKING DETAIL
SCALE: 1 1/2"=1'-0"



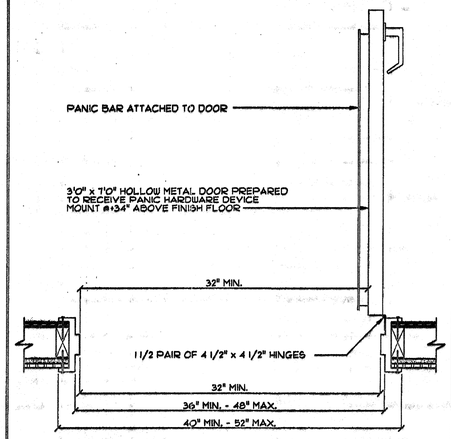
NOTE: 2x4 OR 2x6 STUDS MAY BE USED.

2 BASE CABINET BLOCKING DETAIL
SCALE: 1 1/2"=1'-0"

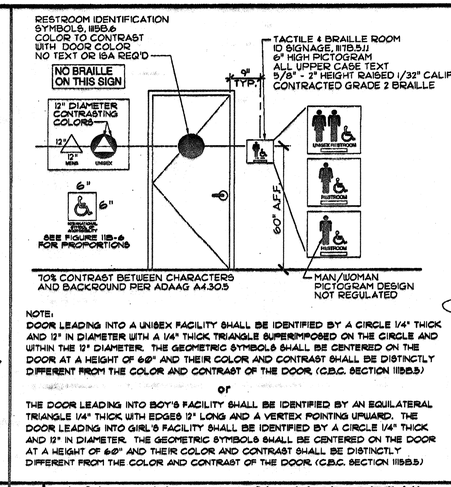


NOTE: 2x4 OR 2x6 STUDS MAY BE USED.

3 GRAB BAR BLOCKING DETAIL
SCALE: 3"=1'-0"



4 PANIC HARDWARE DETAIL
SCALE: 1 1/2"=1'-0"

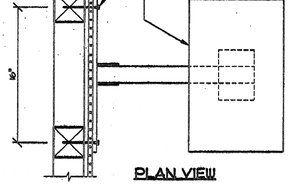


NOTE:
DOOR LEADING INTO A UNISEX FACILITY SHALL BE IDENTIFIED BY A CIRCLE 1/4" THICK AND 12" IN DIAMETER WITH A 1/4" THICK TRIANGLE SUPERIMPOSED ON THE CIRCLE AND WITHIN THE 12" DIAMETER. THE GEOMETRIC SYMBOLS SHALL BE CENTERED ON THE DOOR AT A HEIGHT OF 60" AND THEIR COLOR AND CONTRAST SHALL BE DISTINCTLY DIFFERENT FROM THE COLOR AND CONTRAST OF THE DOOR (C.B.C. SECTION 11B-8.5)

or

THE DOOR LEADING INTO BOY'S FACILITY SHALL BE IDENTIFIED BY AN EQUILATERAL TRIANGLE 1/4" THICK WITH EDGES 12" LONG AND A VERTEX POINTING UPWARD. THE DOOR LEADING INTO GIRL'S FACILITY SHALL BE IDENTIFIED BY A CIRCLE 1/4" THICK AND 12" IN DIAMETER. THE GEOMETRIC SYMBOLS SHALL BE CENTERED ON THE DOOR AT A HEIGHT OF 60" AND THEIR COLOR AND CONTRAST SHALL BE DISTINCTLY DIFFERENT FROM THE COLOR AND CONTRAST OF THE DOOR (C.B.C. SECTION 11B-8.5)

5 RESTROOM DOOR SIGNAGE DETAIL
SCALE: 3/8"=1'-0"

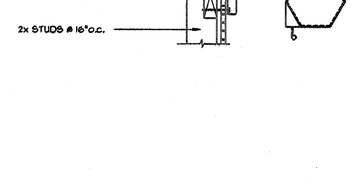


SECTION VIEW

PLAN VIEW

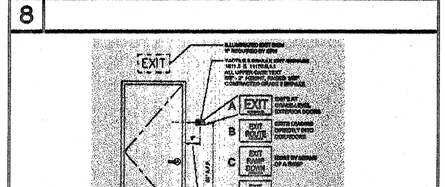
NOTE: 2x4 OR 2x6 STUDS MAY BE USED.

6 T.V. BRACKET BLOCKING DETAIL
SCALE: 1 1/2"=1'-0"

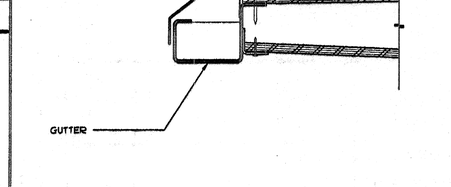


NOTE: 2x4 OR 2x6 STUDS MAY BE USED.

7 PROJECTOR SCREEN BLOCKING
SCALE: 1 1/2"=1'-0"



8

8.1


9 ROOFING CONCEALMENT TRIM
SCALE: 3"=1'-0"

NAMES, NUMBERS, OR LETTERS ONLY
THE MOST LOGICAL IDENTIFICATION SYSTEM FOR ROOMS OR OFFICES IS TO USE NUMBERS, LETTERS, OR COMBINATIONS OF NUMBERS AND LETTERS WHICH CAN THEN BE ARRANGED IN LOGICAL ORDER FOR EASY WAYFINDING.

12B Braille | LIBRARY Braille | EXIT Braille

RAISED CHARACTERS:
UPPERCASE CHARACTERS ARE RAISED 1/32" FROM SURFACE OF SIGN, TYPESTYLE MUST BE SANS SERIF, WITH A STROKE WIDTH BETWEEN 10 AND 20 PERCENT OF HEIGHT. HEIGHT IS BETWEEN 5/8" AND 2". WIDTH OF CHARACTER IS BETWEEN 60 PERCENT AND 100 PERCENT OF HEIGHT.

Mary Jones
PRINCIPAL
Braille

CHANGEABLE INFORMATION MAY BE INCLUDED ON A REMOVABLE INSERT

FINISH
TEXT AND PICTOGRAMS MUST CONTRAST WITH BACKGROUND OF SIGN A MINIMUM OF 70 PERCENT IS DESIRABLE. SIGN MUST HAVE A NON-GLARE FINISH.

BRAILLE
CALIFORNIA CONTRACTED GRADE 2 BRAILLE IS REQUIRED. CAPITAL LETTER INDICATORS SHOULD BE USED ONLY FOR INDIVIDUAL LETTERS, INITIALS, ACRONYMS, AND PROPER NOUNS. DOTS WITHIN A CELL MUST BE 1/10TH INCH ON CENTER. CELLS MUST BE 3/10 INCH APART, MEASURED FROM THE CENTER OF THE DOTS IN ROW TWO TO THE CENTER OF THE DOTS IN ROW ONE OF THE CELL ON THE RIGHT IN THE SAME WORD. DOTS SHOULD BE ROUNDED OR DOMED AND MUST BE 1/40 INCH HIGH MINIMUM.

LAYOUT
CENTERED LAYOUT IS OPTIONAL. BRAILLE SHOULD BE BELOW RAISED CHARACTERS WITH 1/2 INCH SPACE BETWEEN. NOTE THE TACTILE INFORMATION AND BRAILLE IS BELOW THE CENTER LINE IN THE LARGER SIGNS. THIS MAKES IT EASIER FOR CHILDREN TO REACH.

ACCESSIBLE ENTRANCES
IDENTIFY ACCESSIBLE ENTRANCES WITH THE "INTERNATIONAL SYMBOL OF ACCESSIBILITY".

WHEN ALL ENTRANCES ARE NOT ACCESSIBLE, A SIGN IS INSTALLED AT EACH ACCESSIBLE ENTRANCE. HOWEVER, WHEN INDIVIDUAL CLASSROOMS ARE INVOLVED, WHETHER OFF AN INTERIOR CORRIDOR OR FROM THE EXTERIOR OF THE BUILDING, IT MAY BE POSSIBLE TO AVOID HAVING AN INDIVIDUAL INTERNATIONAL SYMBOL OF ACCESSIBILITY (ISA) AT EACH DOOR BY USING ONE SIGN PER ELEVATION OR BUILDING.

Accessible Entrance

PROPORTIONS:
CHARACTERS ON SIGNS SHALL BE SELECTED FROM FONTS THAT HAVE A WIDTH-TO-HEIGHT RATIO BETWEEN 3:5 (60%) AND 1:1 (100%) MEASURED BY THE WIDTH OF THE UPPERCASE LETTER "O" AND HEIGHT OF THE UPPERCASE LETTER "I" AND A STROKE WIDTH-TO-HEIGHT RATIO BETWEEN 1:5 (20%) AND 1:10 (10%) MEASURED BY THE WIDTH AND HEIGHT OF THE UPPERCASE LETTER "I".

VISUAL CHARACTER HEIGHT:
FOR DIRECTIONAL, INFORMATIONAL, AND ACCESSIBILITY SIGNS THAT IDENTIFY, DIRECT TO OR GIVE INFORMATION ABOUT ACCESSIBLE ELEMENTS AND FEATURES OF A BUILDING OR SITE, SHALL BE SIZED PER CBC TABLE 11B-3.4.
VIEWING DISTANCE SHALL BE MEASURED AS THE HORIZONTAL DISTANCE BETWEEN THE CHARACTER AND AN OBSTRUCTION PREVENTING FURTHER APPROACH TOWARD THE SIGN.

NOTE
ROOM IDENTIFICATION SIGNAGE AND INTERNATIONAL SYMBOLS OF ACCESSIBILITY SIGNAGE SHALL BE PROVIDED BY SCHOOL DISTRICT / OWNER AT SITE. SIGNAGE SHALL BE INSTALLED AT LOCATIONS REQUIRED BY CODE USING THE ABOVE GUIDELINES.

10 TYP. ROOM IDENTIFICATION SIGNAGE

11 INTERIOR UNDERFLOOR ACCESS
SCALE: 1 1/2"=1'-0"

NOTES:
1. FOR CLARITY, DOORS ARE NOT SHOWN.
2. CABINET HAS NO BASE TO ALLOW FOR WHEELCHAIR ACCESS.
3. EXTEND FLOORING UNDER CABINET TO WALL.
4. NO SHARP OR ABRASIVE SURFACES UNDER LAVATORY OR COUNTER.

12 ACCESSIBLE CASEWORK @ SINK
SCALE: 1 1/2"=1'-0"

NOTE:
NO SHARP OR ABRASIVE SURFACES UNDER SINKS/LAVATORIES OR COUNTERS.

13 COUNTERTOP SUPPORT BRACKET
SCALE: 1 1/2"=1'-0"

14

DIVISION OF THE STATE ARCHITECT

PRE-CHECK (PC) DOCUMENT
Code: 2010 CBC
A separate project application for construction is required.

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
02-112287
AC FI
DATE 4-11-12

CONFIDENTIAL MATERIAL—THESE DOCUMENTS ARE THE PROPERTY OF AND ARE NOT TO BE REPRODUCED OR DISTRIBUTED WITHOUT FULL KNOWLEDGE AND WRITTEN CONSENT FROM ENVIROPLEX, INC.
© COPYRIGHT ENVIROPLEX, INC. (ALL DRAWINGS PREPARED BY ENVIROPLEX, INC.)

APPROVALS

CYS
STRUCTURAL ENGINEERS INC.
1534 Eureka Rd. Suite 150
Roseville, CA 95661
(916) 920-2020 (916) 920-1336 Fax
www.cysinc.com

APR 10 2012

REGISTERED PROFESSIONAL ENGINEER JEFFREY BENNETT REES No. S2030 EXP. 5/30/13 STRUCTURAL STATE OF CALIFORNIA

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

ENVIROPLEX, INC.
4777 E. CARPENTER ROAD STOCKTON, CA. 95215. (209) 466-8000

MISCELLANEOUS DETAILS

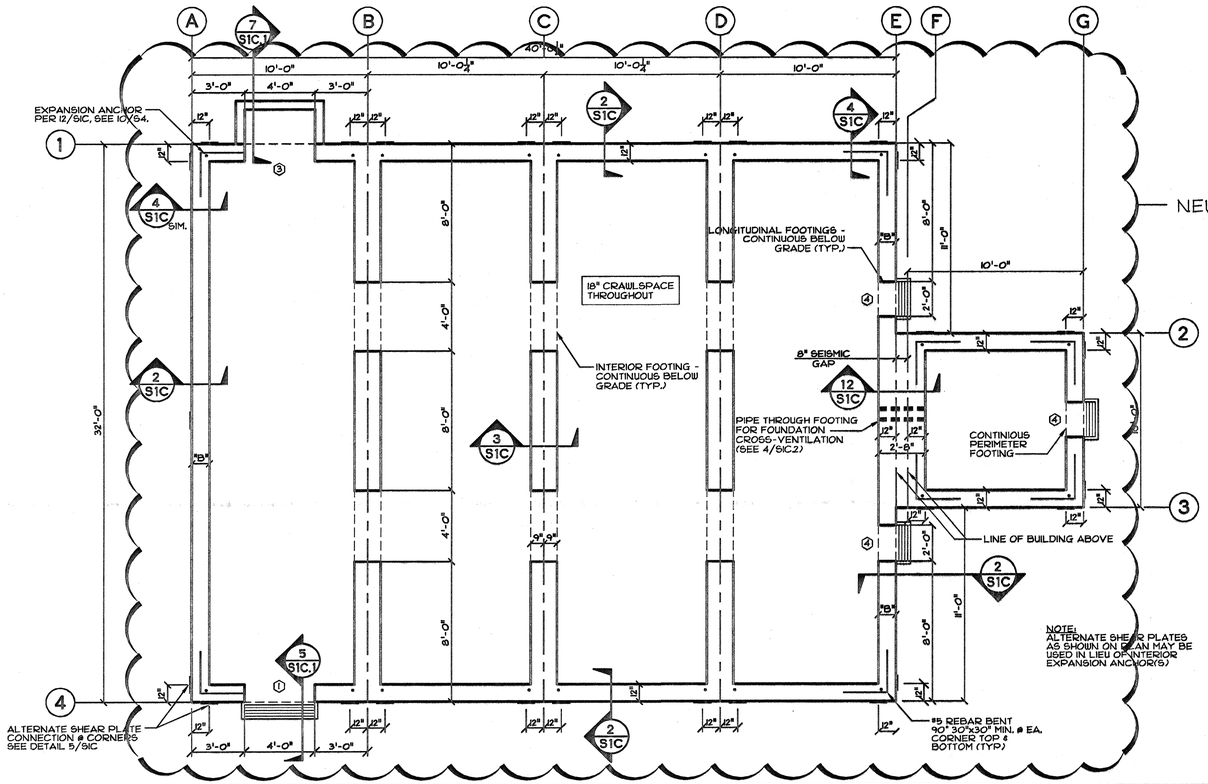
REV / DATE:	BY:

JOB No.:
DRAWN BY:
DATE:

THIS MODULAR BLDG. HAS BEEN ENGINEERED BY A REGISTERED STRUCTURAL ENGINEER AND PREVIOUSLY REVIEWED & APPROVED BY THE DIVISION OF THE STATE ARCHITECT, FIRE & LIFE SAFETY AND ACCESS COMPLIANCE SECTION

A5

30"x42" TO 150"x92" P.C.



1 CONCRETE FOUNDATION PLAN

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

NOTE:
FOUNDATION DESIGN IS BASED ON DSA APPROVED STANDARD PC DETAILS FOR ALLOWABLE SOIL BEARING PRESSURE OF 1500 psf – SITE SPECIFIC GEO-TECH REPORT NOT AVAILABLE.

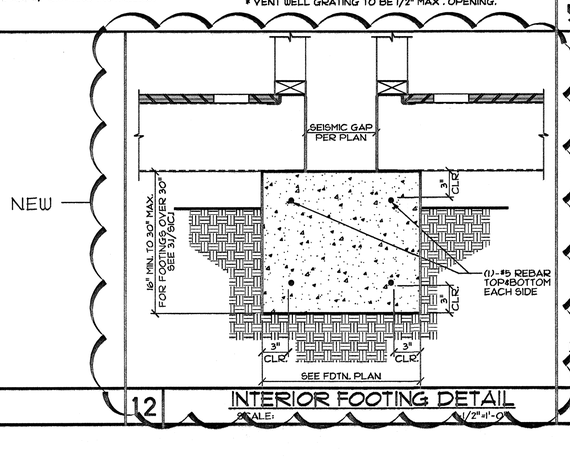
40'x32'

UNDERFLOOR VENTILATION REQUIREMENTS		
BUILDING SIZE	40'x32'	
NET BUILDING AREA	1280 / 150	
MIN. VENT AREA REQ'D.	8.5 SQ. FT.	
QTY. 2' VENTS	2	1.88 SQ. FT.
QTY. 4' VENTS	1	2.25 SQ. FT.
QTY. 6' VENTS	-	0.0 SQ. FT.
VENT WELL	1	6.0 SQ. FT.
VENT AREA PROVIDED		10.13 SQ. FT.

10'x10'

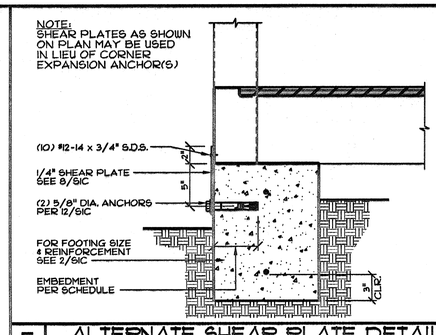
UNDERFLOOR VENTILATION REQUIREMENTS		
BUILDING SIZE	10'x10'	
NET BUILDING AREA	100	
MIN. VENT AREA REQ'D.	.6 SQ. FT.	
QTY. 2' VENTS	1	.94 SQ. FT.
VENT AREA PROVIDED		1.88 SQ. FT.

NOTE:
1. 4' POLY VENT = 2.25 SQ. FT. VENT AREA (FREE AIR W/ GRATING INSTALLED)
2. 6' POLY VENT = 3.9 SQ. FT. VENT AREA (FREE AIR W/ GRATING INSTALLED)
3. ACCESS/VENT WELL = 6.0 SQ F.T VENT AREA (FREE AIR W/ GRATING INSTALLED)
4. 2' POLY VENT = .94 SQ. FT. VENT AREA



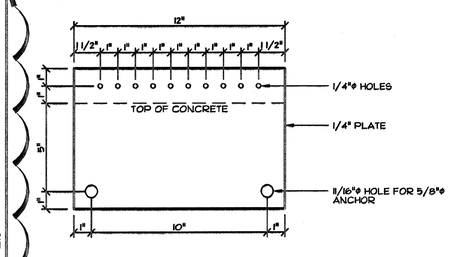
12 INTERIOR FOOTING DETAIL

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

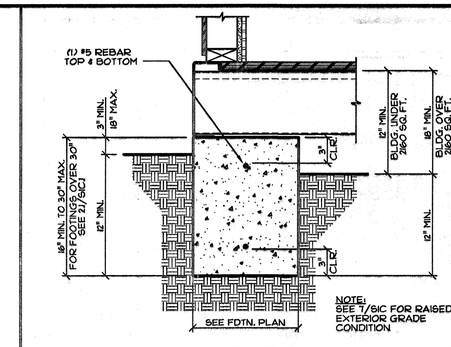


8 ALTERNATE SHEAR PLATE

SCALE: 3"=1'-0"

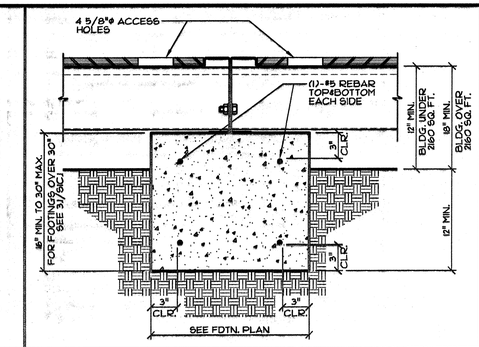


NOTE: ALTERNATE SHEAR PLATE FOR USE ONLY W/ STANDARD BI-PITCH ROOF AND STANDARD SHED ROOF OPTIONS (20 & 30 PSF LL)



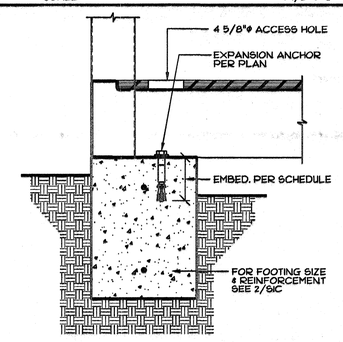
2 PERIMETER FOOTING DETAIL

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



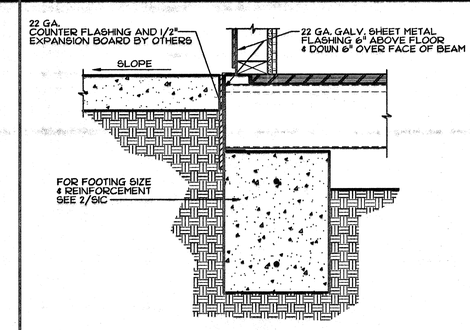
3 INTERIOR FOOTING DETAIL

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



4 CORNER ANCHORING DETAIL

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



7 PERIMETER FLASHING DETAIL

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

ALLOWABLE BEARING (psf)	MODULE CONFIGURATION	FOOTING WIDTH "B" (inches)		
		CLASSROOM (50 psf & 90 + 6 psf)	125psf	150psf
		□	□	□
1500	STD BI-PITCH, STD SHED - NO STUCCO	12	12	18
	ALL ROOF OPTIONS - NO STUCCO	12	15	18
	ALL ROOF OPTIONS - STUCCO	12	15	18

13 "B" FOOTING WIDTH SCHEDULE

EXPANSION ANCHOR EMBEDMENT AND PROOF LOAD SCHEDULE				
			PROOF TEST	
MANUFACTURE	SIZE	MIN. EMBED.	INSTALLATION TORQUE (FT#)	DIRECT TENSION (#) SEE NOTE #1
③ HILTI KWIK BOLT-TZ	5/8"	4 3/4"	60	7015
SIMPSON STRONG BOLT	5/8"	5 1/8"	85	6069

NOTES:
1. TENSION TEST = 2x ALLOWABLE TENSION LOAD PER DSA IR 19-1.
2. NORMAL WEIGHT CONCRETE WITH f'_c = 3000 psi TO COMPLY WITH 1704A.4.3 FOR MATERIAL TEST WAIVER.
③ FOR 125# & 150# FLOOR LIVE LOAD - THIS ANCHOR NOT ALLOWED.

12 EXPANSION ANCHOR SCHEDULE

NOTES:
1. ALLOWABLE SOIL BEARING PRESSURE IS 1,500 P.S.F.
2. CONCRETE FOR FOOTINGS SHALL HAVE A MINIMUM STRENGTH F'c= 3,000 P.S.I., PER 1905A.1.1 MADE WITH 1" MAX ASTM C-33 AGGREGATES PER C.B.C SECTION 1903A.3
3. MIX DESIGN SHALL BE PER C.B.C. SECTION 1905A.2
4. REINFORCING BARS SHALL BE A615, GRADE 40 MIN.
5. VENTILATION TO MEET REQUIREMENTS PER IR 16-1. PROVIDE MINIMUM 1 SQ. FT. OF VENT SPACE PER 150 SQ. FT. (PROVIDE 2" MINIMUM CLEARANCE)
6. ANCHORS TO BE EITHER:
   A. HILTI KWIK BOLT TZ IN ACCORDANCE WITH ICC ESR-1917.
   B. "SIMPSON" STRONG BOLT ANCHOR IN ACCORDANCE WITH ICC ESR-1771.
   C. ANCHORS WITH EXTERIOR EXPOSURE TO BE STAINLESS STEEL OR HOT DIPPED GALVANIZED.
7. TESTING OF REINFORCING BARS USED IN SINGLE STORY BUILDINGS MAY BE WAIVED PROVIDED CERTIFIED MILL TEST REPORTS ARE PROVIDED FOR EACH SHIPMENT OF SUCH REINFORCMENT (CBC 1916A.2).

11 GENERAL NOTES

DIVISION OF THE STATE ARCHITECT
FOR USE:
1) 20 & 30psf ROOF LIVE/SNOW LOAD W/ 50, 65, 125, & 150psf FLOOR LL.
2) ALL ROOF OPTIONS.
3) ALL EXTERIOR FINISH OPTIONS.

APPROVALS

CONFIDENTIAL MATERIAL-THESE DOCUMENTS ARE THE PROPERTY OF AND ARE NOT TO BE REPRODUCED OR DISTRIBUTED WITHOUT FULL KNOWLEDGE AND WRITTEN CONSENT FROM ENVIROPLEX, INC.
© COPYRIGHT ENVIROPLEX, INC. (ALL DRAWINGS PREPARED BY ENVIROPLEX, INC.)

CYS
STRUCTURAL ENGINEERS INC.
2145 Netscio Pkwy Dr Ste, Suite 100
Rocklin, CA 95765
(916) 435-1160 Fax
www.cysinc.com

REGISTERED PROFESSIONAL ENGINEER "ARTHUR "ERNEST" ROSE" No. S2030 EXP. 9/30/15 STRUCTURAL STATE OF CALIFORNIA

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

ENVIROPLEX, INC.
4777 E. CARPENTER ROAD STOCKTON, CA. 95215. (209) 466-8000

(1) 40'x32' R.R./CONCESSION and (1) 10'x10' TICKET BOOTH
FOR COLLEGE PARK HIGH SCHOOL
MT. DIABLO UNIFIED SCHOOL DISTRICT

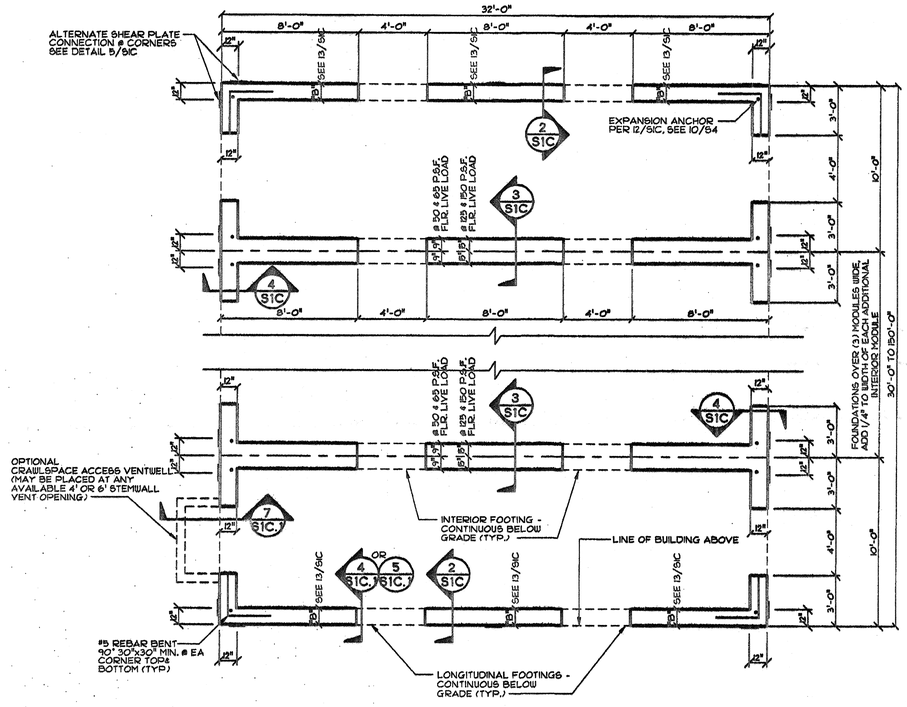
CONCRETE FOUNDATION PLAN, FOOTING DETAILS & NOTES

REV / DATE:	BY:

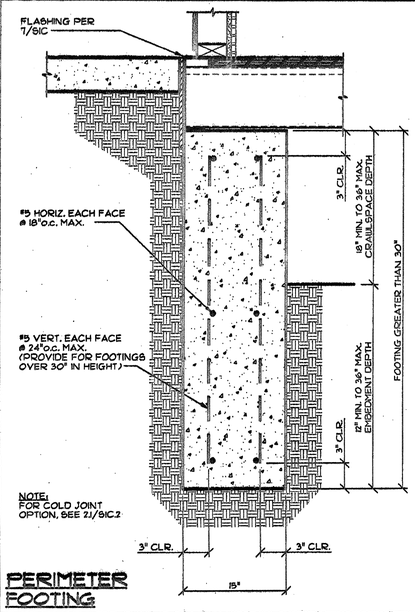
JOB No.:	14-033
DRAWN BY:	HS
DATE:	OCT 17 2014

THIS MODULAR BLDG. HAS BEEN ENGINEERED BY A REGISTERED STRUCTURAL ENGINEER AND PREVIOUSLY REVIEWED & APPROVED BY THE DIVISION OF THE STATE ARCHITECT, FIRE & LIFE SAFETY AND ACCESS COMPLIANCE SECTION

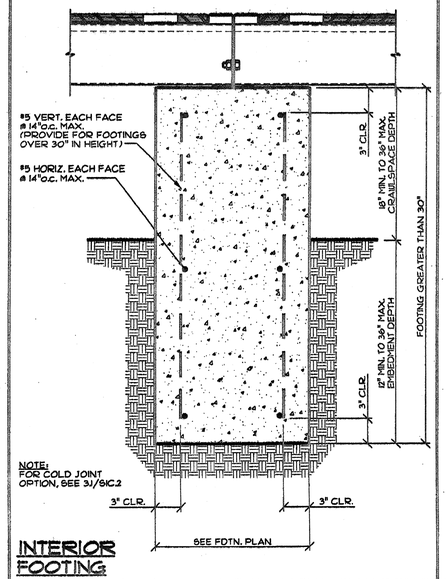
S1C



1 ADJUSTABLE CONCRETE FOUNDATION PLAN
SCALE: 1/4"=1'-0"



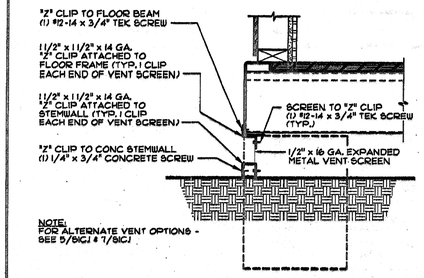
PERIMETER FOOTING



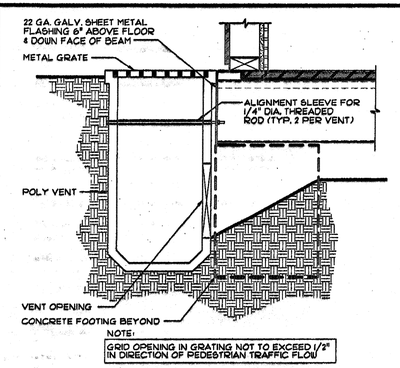
INTERIOR FOOTING

2.1 FOOTING GREATER THAN 30" HT.
SCALE: 1 1/2"=1'-0"

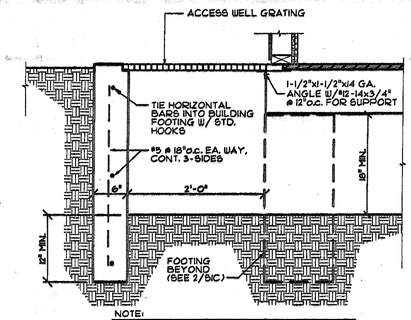
3.1 FOOTING GREATER THAN 30" HT.
SCALE: 1 1/2"=1'-0"



4 VENT SCREEN DETAIL
SCALE: 1-1/2"=1'-0"



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



7 ACCESS / VENT WELL
SCALE: 1"=1'-0"

DIVISION OF THE STATE ARCHITECT
FOR USE:
1) 20 & 30psf ROOF LIVE LOAD W/ 50, 65, 125, & 150psf FLOOR LIVE LOAD.
2) ALL ROOF OPTIONS.
3) ALL EXTERIOR FINISH OPTIONS

PRE-CHECK (PC) DOCUMENT
Code: 2010 CBC
A separate project application for construction is required.

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
02-112287
AC. FLS. SS.
DATE 6-11-12

CONFIDENTIAL MATERIAL--THESE DOCUMENTS ARE THE PROPERTY OF AND ARE NOT TO BE REPRODUCED OR DISTRIBUTED WITHOUT FULL KNOWLEDGE AND WRITTEN CONSENT FROM ENVIROPLEX, INC. © COPYRIGHT ENVIROPLEX, INC. (ALL DRAWINGS PREPARED BY ENVIROPLEX, INC.)

APPROVALS

CYS
Structural Engineers, Inc.
3764 Gateway Centre Dr., Suite 360
Sacramento, CA. 95833
(916) 929-1481 (916) 920-1556 Fax
www.cysinc.com

APR 10 2012

REGISTERED PROFESSIONAL ENGINEER ARTHUR "ERNEST" REES No. 52030 EXP. 6/30/13 STRUCTURAL STATE OF CALIFORNIA

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

ENVIROPLEX, INC.
4777 E. CARPENTER ROAD STOCKTON, CA. 95215, (209) 466-8000

VARIABLE FOUNDATION PLAN, & ALTERNATE FOOTING DETAILS

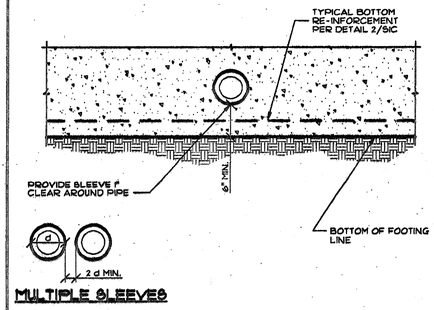
REV / DATE:	BY:

JOB No.:
DRAWN BY:
DATE:

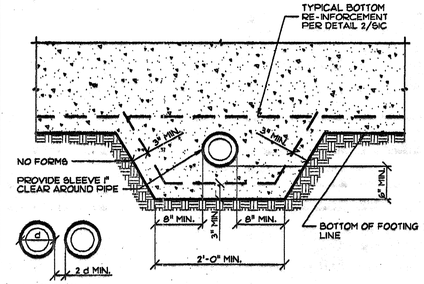
THIS MODULAR BLDG. HAS BEEN ENGINEERED BY A REGISTERED STRUCTURAL ENGINEER AND PREVIOUSLY REVIEWED & APPROVED BY THE DIVISION OF THE STATE ARCHITECT, FIRE & LIFE SAFETY AND ACCESS COMPLIANCE SECTION

30'x32' TO 150'x32' P.C.

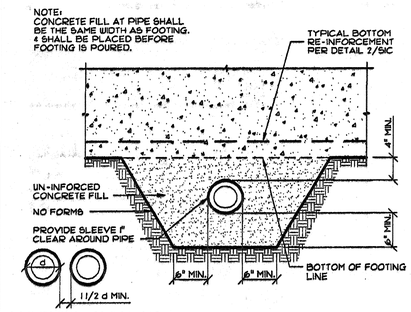
S1C.1



MULTIPLE SLEEVES



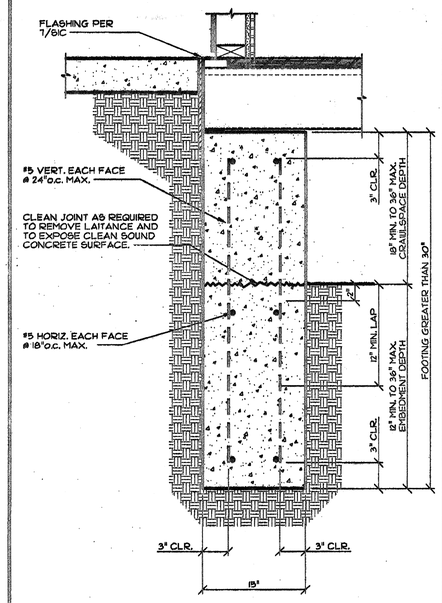
MULTIPLE SLEEVES



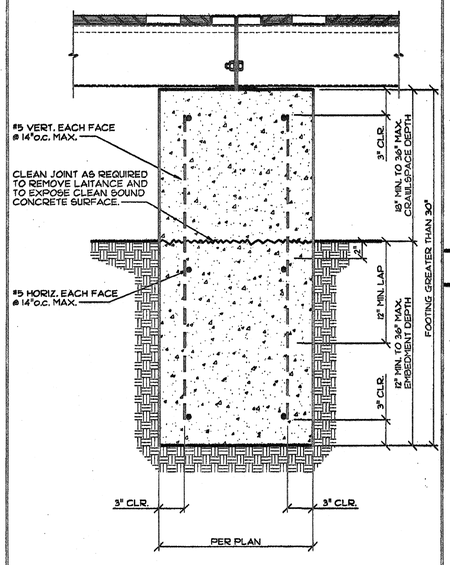
MULTIPLE SLEEVES

2		3		4	PIPE THROUGH FOOTING	5	PIPE NEAR BOTTOM OF FOOTING	6	PIPE BELOW BOTTOM OF FOOTING

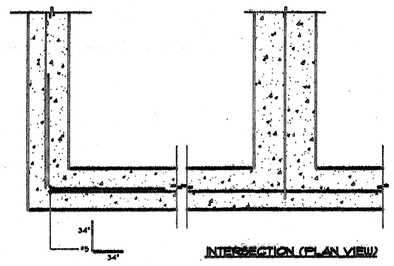
SCALE: 1"=1'-0"



PERIMETER FOOTING

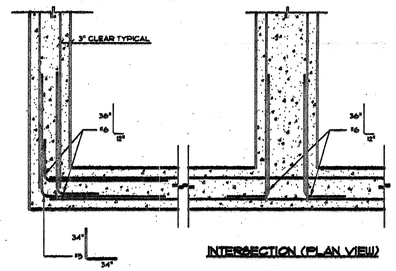


MODULE LINE FOOTING



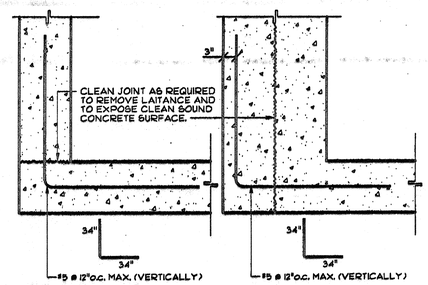
CORNER (PLAN VIEW)

INTERSECTION (PLAN VIEW)



CORNER (PLAN VIEW)

INTERSECTION (PLAN VIEW)

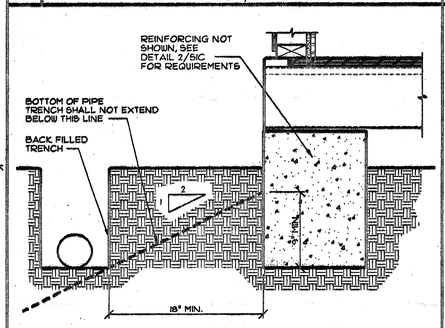


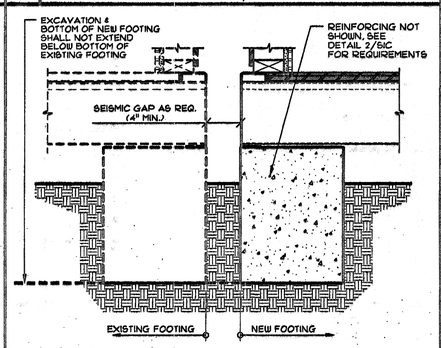
PERPENDICULAR JOINT

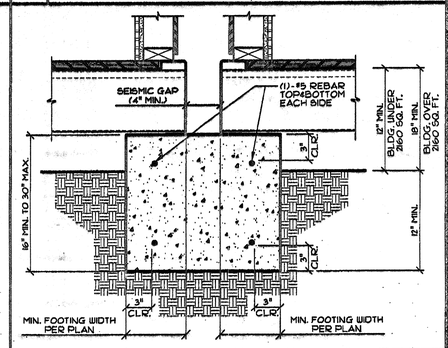
PARALLEL JOINT

8	TYP. REBAR LAPS (SINGLE BAR)	9	TYP. REBAR LAPS (DOUBLE BAR)	10	PLAN VIEW - VERTICAL COLD JOINT

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



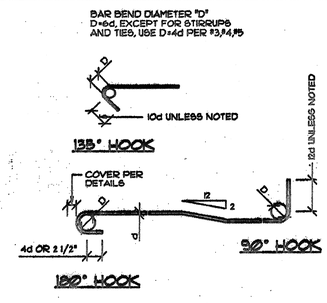




11	TYP. REINFORCING BAR BENDS	12		13	TRENCH PROXIMITY TO FOOTINGS	14	PROXIMITY OF NEW TO EXIST. FOOT.	15	INTERIOR FOOTING @ SEISMIC GAP

SCALE: NONE

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



DIVISION OF THE STATE ARCHITECT

FOR USE:
1) 20 & 30psf ROOF LIVE/SNOW LOAD W/ 50, 65, 125, & 150psf FLOOR LL.
2) ALL ROOF OPTIONS.

PRE-CHECK (PC) DOCUMENT
Code: 2010 CBC
A separate project application for construction is required.

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
02-112287
AC____ FLS____ SS____
DATE 4-11-12

CONFIDENTIAL MATERIAL-THESE DOCUMENTS ARE THE PROPERTY OF AND ARE NOT TO BE REPRODUCED OR DISTRIBUTED WITHOUT FULL KNOWLEDGE AND WRITTEN CONSENT FROM ENVIROPLEX, INC.
© COPYRIGHT ENVIROPLEX, INC. (ALL DRAWINGS PREPARED BY ENVIROPLEX, INC.)

APPROVALS

CYS
STRUCTURAL ENGINEERS INC.
1760 Creekside Oaks Dr. Suite 280
Sacramento, CA 95833
(916) 780-0128 916-780-1560 Fax
www.cysces.com

APR 10 2012

REGISTERED PROFESSIONAL ENGINEER
No. 62030
EXP. 6/30/13
STRUCTURAL
STATE OF CALIFORNIA

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

ENVIROPLEX, INC.
4777 E. CARPENTER ROAD STOCKTON, CA. 95215, (209) 466-8000

TYPICAL FOOTING DETAILS

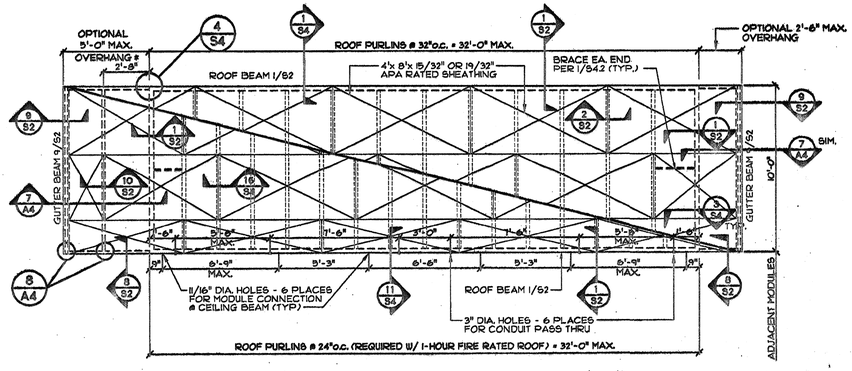
REV / DATE:	BY:

JOB No.:
DRAWN BY:
DATE:

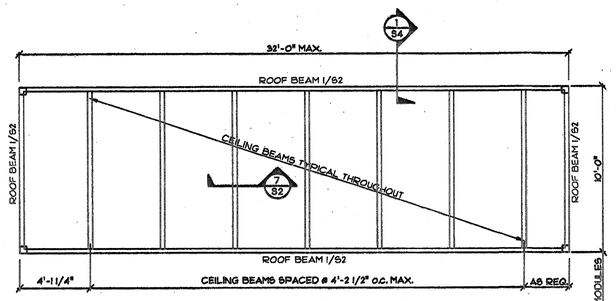
THIS MODULAR BLDG. HAS BEEN ENGINEERED BY A REGISTERED STRUCTURAL ENGINEER AND PREVIOUSLY REVIEWED & APPROVED BY THE DIVISION OF THE STATE ARCHITECT, FIRE & LIFE SAFETY AND ACCESS COMPLIANCE SECTION

S1C.2

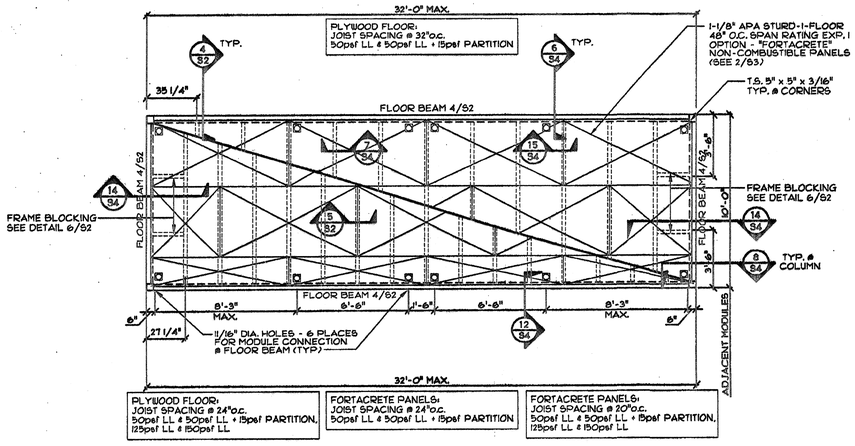
30"x32" TO 150"x32" P.C.



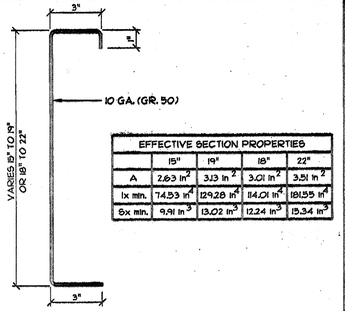
13 ROOF FRAMING PLAN
SCALE: 1/4"=1'-0"



14 CEILING FRAMING PLAN
SCALE: 1/4"=1'-0"

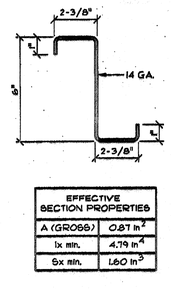


15 FLOOR FRAMING PLAN
SCALE: 1/4"=1'-0"



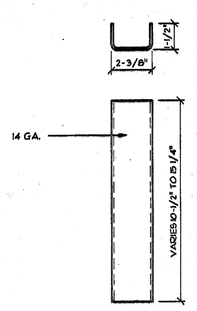
EFFECTIVE SECTION PROPERTIES				
	15"	19"	18"	22"
A	2.63 in²	3.13 in²	3.01 in²	3.51 in²
Ix min.	74.83 in⁴	129.28 in⁴	114.01 in⁴	181.55 in⁴
Sx min.	9.91 in³	13.02 in³	12.24 in³	15.34 in³

1 ROOF BEAM SECTION
SCALE: 3"=1'-0"

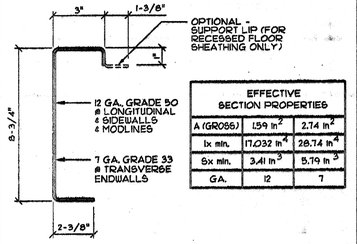


EFFECTIVE SECTION PROPERTIES	
A (GROSS)	0.87 in²
Ix min.	4.79 in⁴
Sx min.	1.60 in³

2 ROOF PURLIN SECTION
SCALE: 3"=1'-0"

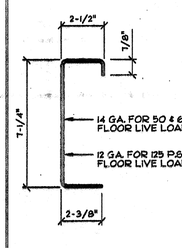


3 ROOF BEAM STIFFENER
SCALE: 3"=1'-0"



EFFECTIVE SECTION PROPERTIES		
A (GROSS)	1.59 in²	2.74 in²
Ix min.	17.032 in⁴	28.74 in⁴
Sx min.	3.41 in³	5.79 in³
GA.	12	7

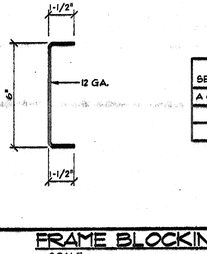
4 FLOOR BEAM SECTION
SCALE: 3"=1'-0"



EFFECTIVE SECTION PROPERTIES	
A (GROSS)	0.89 in²
Ix min.	6.94 in⁴
Sx min.	2.03 in³
GA.	14

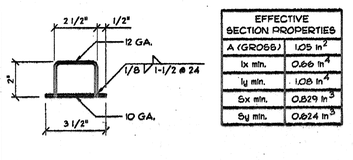
EFFECTIVE SECTION PROPERTIES	
A (GROSS)	1.26 in²
Ix min.	9.59 in⁴
Sx min.	2.80 in³
GA.	12

5 FLOOR JOIST SECTION
SCALE: 3"=1'-0"



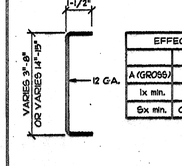
EFFECTIVE SECTION PROPERTIES	
A (GROSS)	.89in²
Ix min.	4.12in⁴
Sx min.	1.34in³

6 FRAME BLOCKING SECTION
SCALE: 3"=1'-0"



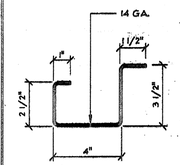
EFFECTIVE SECTION PROPERTIES	
A (GROSS)	1.05 in²
Ix min.	0.66 in⁴
Iy min.	1.08 in⁴
Sx min.	0.829 in³
Sy min.	0.824 in³

7 CEILING BEAM SECTION
SCALE: 3"=1'-0"



EFFECTIVE SECTION PROPERTIES				
	3"	8"	14"	15"
A (GROSS)	.57in²	1.07in²	1.68 in²	1.79 in²
Ix min.	.78in⁴	8.28in⁴	34.2 in⁴	40.47 in⁴
Sx min.	0.52in³	2.05 in³	5.11 in³	5.72 in³

8 OVERHANG BEAM
SCALE: 3"=1'-0"

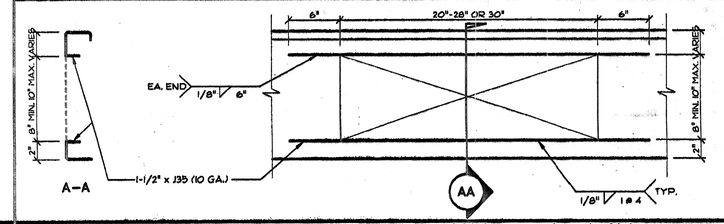


EFFECTIVE SECTION PROPERTIES	
A (GROSS)	0.85 in²
Ix min.	1.26 in⁴
Sx min.	0.97 in³

9 GUTTER BEAM SECTION
SCALE: 3"=1'-0"

EFFECTIVE SECTION PROPERTIES	
A (GROSS)	.69in²
Ix min.	1.58in⁴
Sx min.	.79in³

10 INTERMEDIATE CHANNELS
SCALE: 3"=1'-0"



11 HVAC PENETRATION @ ENDWALL ROOF BEAM
SCALE: 1-1/2"=1'-0"

1. ALL STRUCTURAL STEEL SHALL BE ASTM A101 GRADE 36. UNLESS OTHERWISE NOTED
2. STRUCTURAL STEEL TUBING SHALL BE ASTM A500 GRADE B Fy=46
3. HIGH STRENGTH BOLTS SHALL BE ASTM A325.
4. ALL MACHINE BOLTS SHALL BE ASTM A307.
5. WELDING SHALL BE DONE PER C.B.C. SECTION 2204A1.2 & AWS D 1.8 - D6.3.
6. WELDING INSPECTION TO BE PER C.B.C. SECTION 1704A.3.1
7. SEE TESTS AND INSPECTIONS REPORT SHEET A0 FOR REQUIREMENTS.
8. LIGHT GAGE METAL & FRAMING THICKNESSES

GAGE	DESIGN THICKNESS	MIN. DELIVERED THICKNESS
7 GA. STEEL	.1793"	.170"
10 GA. STEEL	.1345"	.128"
12 GA. STEEL	.1046"	.0994"
14 GA. STEEL	.0747"	.0710"

R = 3/16" MAX. TYPICAL CORNER RADIUS

9. MINIMUM STEEL THICKNESS SHALL NOT BE LESS THAN 95% OF THE DESIGN THICKNESS PER AISI - GENERAL AND AISI - NAS.

STEEL SPECIFICATION

1. ALL STRUCTURAL PLYWOOD SHALL BE MANUFACTURED TO PRODUCT STANDARD DOC PS-1 AND INSPECTED AND GRADE MARKED AT THE MILL BY AN APPROVED QUALITY CONTROL AGENCY SUCH AS APA OR TECO.
2. ROOF SHEATHING SHALL BE 4'x 8'x 15/32" GRADE MARKED 32/16 SPAN INDEX, EXP. 1 OR 19/32" GRADE MARKED 40/20 SPAN INDEX, EXP.1.
3. FLOOR SHEATHING SHALL BE 4'x 8'x 1-1/8" T & G APA OR TECO RATED UNDERLAYMENT GRADE STURD-I-FLOOR OR EQUAL, SPAN RATING = 48".
4. WALL SHEATHING SHALL BE 3/8" HARDBOARD SIDING APA EXTERIOR TYPE 303 GROUP II M.D.O., EXTERIOR GROUP II, OR OPTIONAL 5/8" T1-11 APA EXTERIOR SIDING.
5. SEE FASTENER SCHEDULE, "S3" SHEETS.

SHEATHING / PLYWOOD SPECIFICATION

DIVISION OF THE STATE ARCHITECT

PRE-CHECK (PC) DOCUMENT
Code: 2010 CBC
A separate project application for construction is required.

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
02-112287
AC. FLS. SS.
DATE 4-11-12

CONFIDENTIAL MATERIAL—THESE DOCUMENTS ARE THE PROPERTY OF AND ARE NOT TO BE REPRODUCED OR DISTRIBUTED WITHOUT FULL KNOWLEDGE AND WRITTEN CONSENT FROM ENVIROPLEX, INC.
© COPYRIGHT ENVIROPLEX, INC. (ALL DRAWINGS PREPARED BY ENVIROPLEX, INC.)

APPROVALS

CYS
Structural Engineers Inc.
1760 Creekside Oaks Dr. Suite 280
Sacramento, CA 95833
(916)920-1556 Fax
(916)920-1558
www.cysinc.com

APR 10 2012

REGISTERED PROFESSIONAL ENGINEER
KATHRYN "KRAMER" YOUNG
No. S2030
EXP. 9/30/13
STRUCTURAL
STATE OF CALIFORNIA

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

ENVIROPLEX, INC.
4777 E. CARPENTER ROAD STOCKTON, CA. 95215, (209) 466-8000

BI-PITCH ROOF, CEILING, & FLOOR FRAMING PLANS, STRUCTURAL STEEL PROPERTIES, NOTES

20 P.S.F. SNOW LOAD

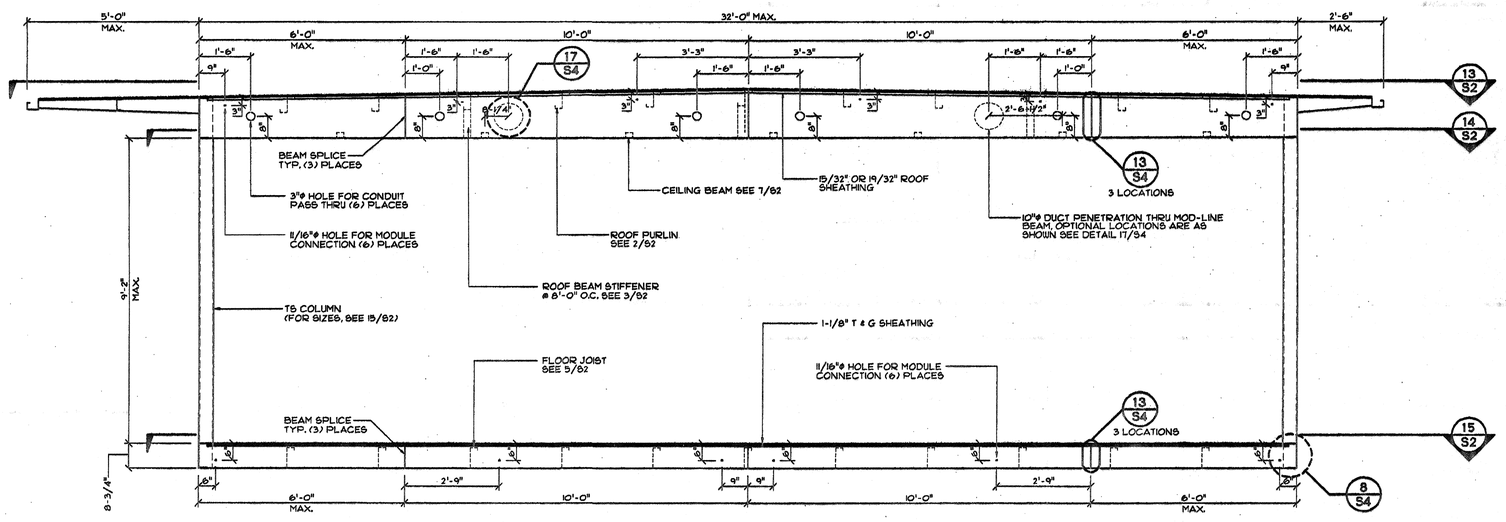
REV / DATE:	BY:

JOB No.:
DRAWN BY:
DATE:

THIS MODULAR BLDG. HAS BEEN ENGINEERED BY A REGISTERED STRUCTURAL ENGINEER AND PREVIOUSLY REVIEWED & APPROVED BY THE DIVISION OF THE STATE ARCHITECT, FIRE & LIFE SAFETY AND ACCESS COMPLIANCE SECTION

30'x32' TO 150'x32' P.C.

S2



1 TYPICAL LONGITUDINAL FRAME SECTION - BI-PITCH ROOF
SCALE: 1/2"=1'-0"

WALL TO FRAME FASTENING:

- WALL PANEL TOP PLATE TO PERIMETER ROOF BEAM: (1) 1/4"ø x 2" LAG SCREWS FROM ROOF BEAM BOTT. FLANGE INTO TOP PLATE @ 15"o.c. MAX.
- WALL PANEL BOTTOM PLATE TO PERIMETER FLOOR BEAM: 1/4"-20 TEKS/4 SCREWS @ 16"o.c. FROM BOTT. PLATE INTO FLOOR BEAM TOP FLANGE
- WALL PANEL SIDE STUDS TO TS CORNER COLUMNS: #12-24 x 2 1/2" S.D.S. @ 16"o.c. FROM SIDE STUD INTO STEEL CORNER COLUMN.
- TOP AND BOTTOM PLATE TO STUDS AND KING STUDS: (3) .135 x 3 1/4" LONG MACHINE NAIL
- DOUBLE STUDS, TRIMMERS, SILLS, AND CRIPPLES STICH NAILED: .135 x 3 1/4" LONG MACHINE NAILS @ 8"o.c.
- CRIPPLES, TRIMMERS END NAILED TO PLATES AND SILLS: (3) .135 x 3 1/4" LONG MACHINE NAIL EA. END
- CRIPPLES, TRIMMERS NAILED TO HEADERS: (3) .135 x 3 1/4" LONG MACHINE NAIL
- ALL HANGERS, STRAPS, CLIPS, ETC.: NAILED AS PER MANUFACTURERS SPECS.
- FASTENING CONDITIONS NOT NOTED ABOVE: TABLE 2304.9.1 2010 C.B.C.

SHEATHING / PLYWOOD NAILING & NOTES:

1. DO NOT CRUSH PLYWOOD FACE PLY (OUTER VENEER LAYER) BY OVER DRIVING SCREWS, MACHINE OR HAND NAILS.
2. UNDER DRIVEN NAILS SHALL BE CORRECTED BY HAND SET.
3. REMOVE AND REPLACE NAILS DRIVEN THAT MISS FRAMING OR SUPPORT.
4. ALL CORRECTIVE NAILING SHALL BE DONE BY HAND NAILING.
5. H.D.G.= HOT DIPPED GALVANIZED WITH MINIMUM COATING OF 1 OZ PER SQ. F.T OF ZINC. OR MECHANICALLY GALVANIZED PER ASTM. F-1667.

FLOOR - STD (JOISTS SPACED @ 32"o.c. MAX.)

- 1-1/8" APA RATED T4G STURDI FLOOR TO BEAM & JOISTS: .144 x 1-3/4" PIN (ICC ER-4144) @ 4"o.c. SHEET EDGES, 10"o.c. IN FIELD.

FLOOR - OPT (JOISTS SPACED @ 24"o.c. MAX.)

- 3/4" "FORTACRETE" T & G, NON-COMBUSTIBLE CEMENT PANEL (ESR-1792) W/ 3/8" SANDED PLYWOOD OVERLAY: FORTACRETE - MIN. #8 x 1 3/4" SELF-DRILLING, SELF-TAPPING BUGLE HEAD SCREWS DIRECT TO STL. JOISTS (ASTM C954 & C1513). (SEE 19/S4.2 FOR FASTENER LAYOUT)
- OVERLAY - MIN. #8 x 2" SELF-DRILLING, SELF-TAPPING BUGLE HEAD SCREWS @ 6"o.c. PANEL EDGES, 12"o.c. FIELD.

ROOF

- 15/32" APA RATED PLYWOOD TO PURLINS & BEAMS (OPT. 19/32" PLYWOOD ROOF): .144 x 1 1/4" PIN (ICC ER-4144) @ 6"o.c. SHEET EDGES, 12"o.c. IN FIELD.

SIDING

- EXTERIOR SIDING: INTO 2x4 OR 2x6 WOOD STUDS; 13/8" x 2 1/2" @ 6"o.c. PANEL EDGES, 12"o.c. IN FIELD. (H.D.G. OR MECH. GALV. NAILS, PER ASTM F-1667). INTO STEEL COLUMNS; #12-24 x 2" S.D.S. @ 24"o.c.

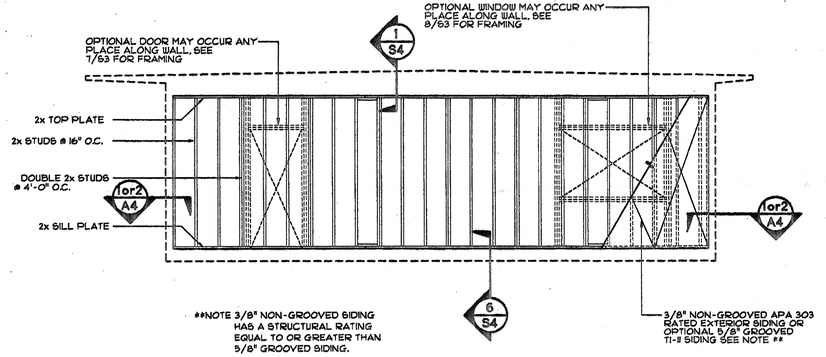
GYPSUM WALLBOARD

- 1/2" GYP. BOARD TO 2x4 OR 2x6 STUDS: 12| x 1 1/2" COATED NAILS @ 8"o.c. EDGES, 8"o.c. IN FIELD.

OVERHANG SOFFIT

- 1/2" APA RATED SHEATHING: #8 x 1" S.M.S. @ 6"o.c. EDGES, 12"o.c. IN FIELD (PRE-PUNCHED HOLES IN STEEL)

2 NAILING SCHEDULE

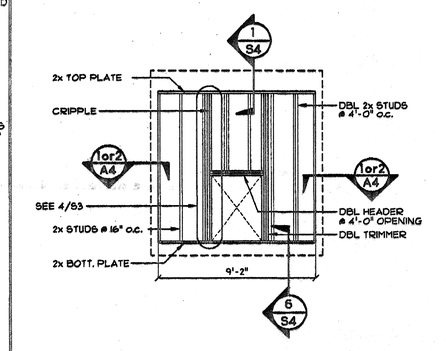


NOTE: 2x4 OR 2x6 STUDS MAY BE USED.

3 TYPICAL SIDEWALL FRAMING ELEVATION
SCALE: 1/4"=1'-0"

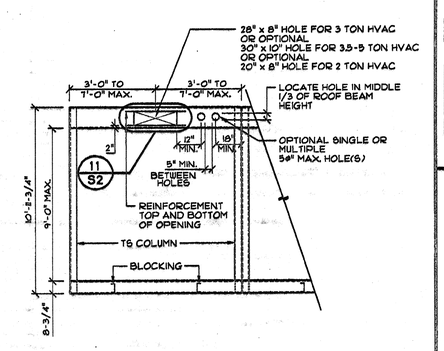
NOTE: 2x4 OR 2x6 STUDS MAY BE USED. FOR "NAILING SCHEDULE", SEE 2/S3

4 STUD NAILING DETAIL
SCALE: 1"=1'-0"

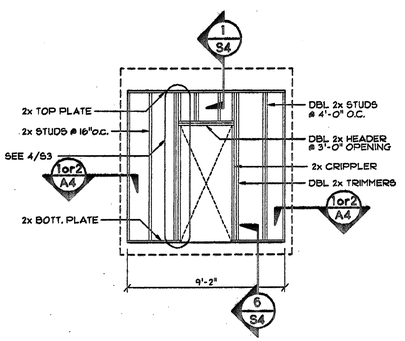


NOTE: 2x4 OR 2x6 STUDS MAY BE USED.

5 WALL FRAMING - INTERIOR HVAC
SCALE: 1/4"=1'-0"

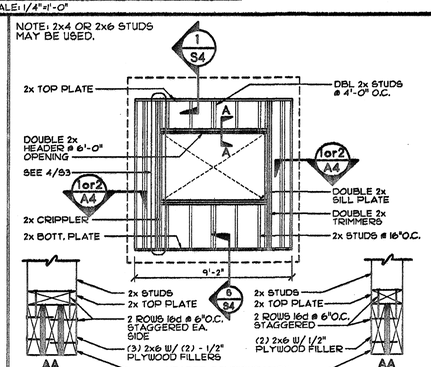


6 END FRAME ELEVATION
SCALE: 1/4"=1'-0"

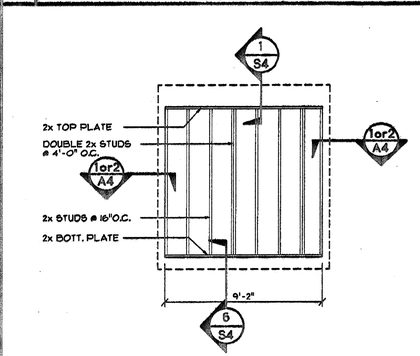


NOTE: 2x4 OR 2x6 STUDS MAY BE USED.

7 WALL FRAMING - EXTERIOR DOOR
SCALE: 1/4"=1'-0"

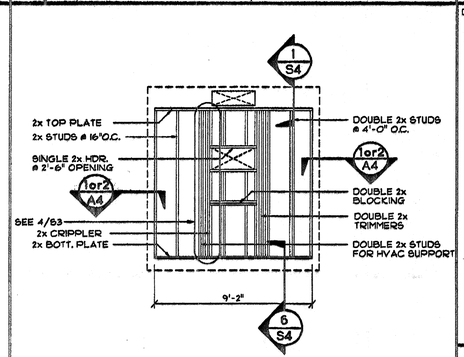


8 WALL FRAMING - EXTERIOR WINDOW
SCALE: 1/4"=1'-0"



NOTE: 2x4 OR 2x6 STUDS MAY BE USED.

9 WALL FRAMING - TYP. 10'-0" WALL
SCALE: 1/4"=1'-0"



NOTE: 2x4 OR 2x6 STUDS MAY BE USED.

10 WALL FRAMING - EXTERIOR HVAC
SCALE: 1/4"=1'-0"

DIVISION OF THE STATE ARCHITECT

PRE-CHECK (PC) DOCUMENT
Code: 2010 CBC
A separate project application for construction is required.

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
02-112287
AC___ FLS___ SS 18
DATE 4-11-12

CONFIDENTIAL MATERIAL--THESE DOCUMENTS ARE THE PROPERTY OF AND ARE NOT TO BE REPRODUCED OR DISTRIBUTED WITHOUT FULL KNOWLEDGE AND WRITTEN CONSENT FROM ENVIROPLEX, INC. © COPYRIGHT ENVIROPLEX, INC. (ALL DRAWINGS PREPARED BY ENVIROPLEX, INC.)

APPROVALS

CYS
STRUCTURAL ENGINEERS, INC.
1535 Response Road, Suite 206
Sacramento, CA 95815
(916) 920-2030 (916) 920-1536 Fax
www.cysinc.com

REGISTERED PROFESSIONAL ENGINEER
TERRENCE ERNEST REESE
No. 62230
EXP. 9/30/13
STRUCTURAL
STATE OF CALIFORNIA

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

ENVIROPLEX, INC.
4777 E. CARPENTER ROAD STOCKTON, CA. 95215, (209) 466-8000

BI-PITCHED ROOF
LONGITUDINAL BUILDING SECTION, WALL FRAMING ELEVATIONS, END FRAME ELEVATION, NAIL SCHEDULE

REV / DATE:	BY:

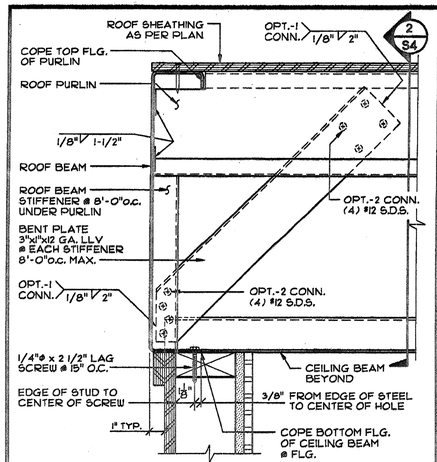
JOB No.:
DRAWN BY:
DATE:

THIS MODULAR BLDG. HAS BEEN ENGINEERED BY A REGISTERED STRUCTURAL ENGINEER AND PREVIOUSLY REVIEWED & APPROVED BY THE DIVISION OF THE STATE ARCHITECT, FIRE & LIFE SAFETY AND ACCESS COMPLIANCE SECTION

S3

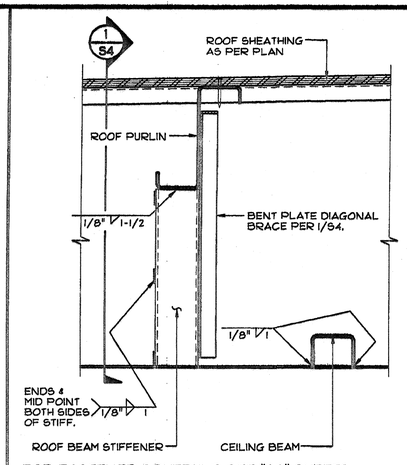
20 P.S.F. SNOW LOAD

30'x32' TO 150'x32' P.C.



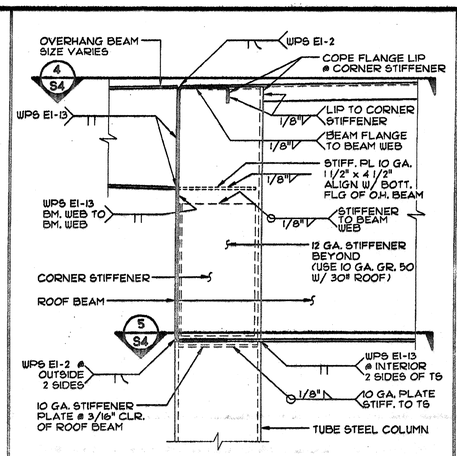
FOR FASTENER SCHEDULE, SEE "S3" SHEETS

1 ROOF BEAM SECTION @ PURLIN
SCALE: 3"=1'-0"

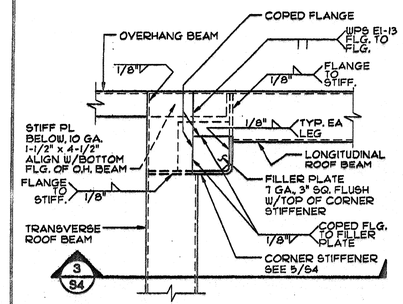


FOR FASTENER SCHEDULE, SEE "S3" SHEETS

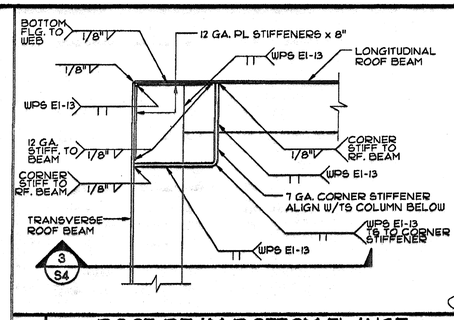
2 PURLIN TO STIFFENER AT BEAM
SCALE: 3"=1'-0"



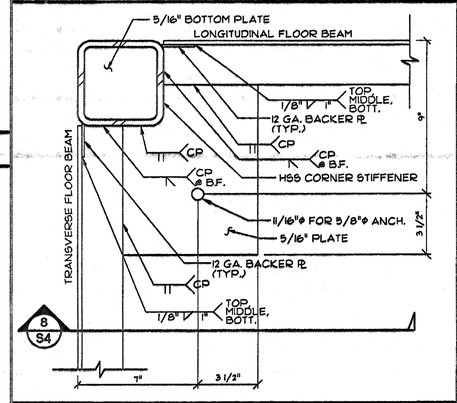
3 ROOF BEAM SECTION @ CORNER
SCALE: 3"=1'-0"



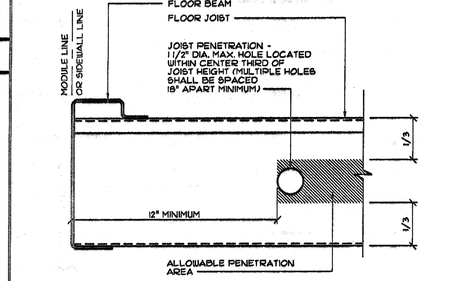
4 ROOF BEAM TOP FLANGE
SCALE: 3"=1'-0"



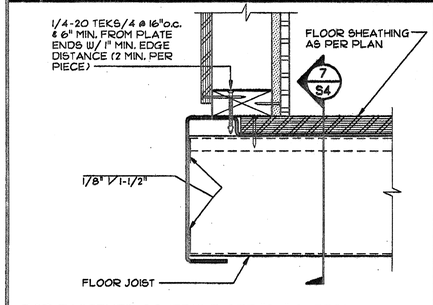
5 ROOF BEAM BOTTOM FLANGE
SCALE: 3"=1'-0"



10 FLOOR BEAM BOTTOM FLANGE
SCALE: 3"=1'-0"

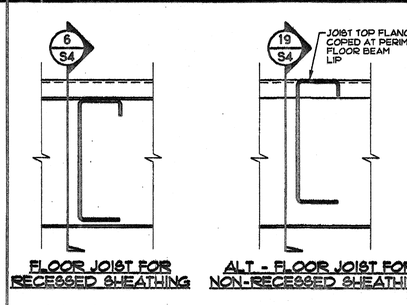


18 FLOOR JOIST PENETRATION
SCALE: 3"=1'-0"



FOR FASTENER SCHEDULE, SEE "S3" SHEETS

6 FLOOR BEAM @ JOIST CONNECTION
SCALE: 3"=1'-0"

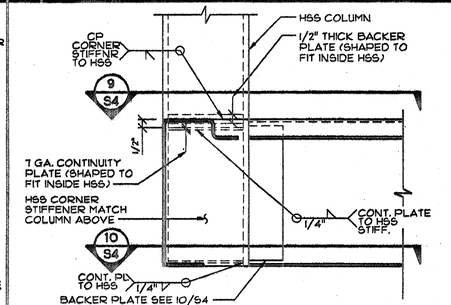


FLOOR JOIST FOR RECESSED SHEATHING

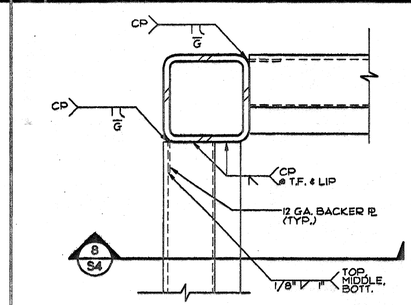
ALT. - FLOOR JOIST FOR NON-RECESSED SHEATHING

FOR CLARITY, FLOOR SHEATHING IS NOT SHOWN.

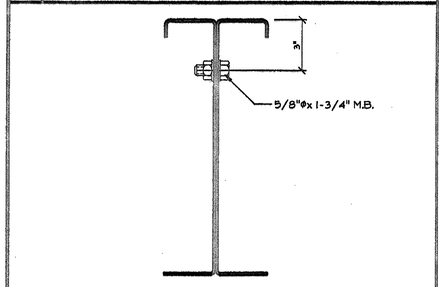
7 JOIST TO BEAM CONNECTION
SCALE: 3"=1'-0"



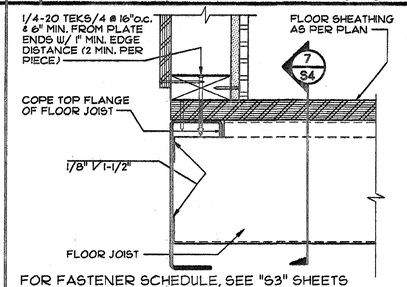
8 FLOOR BEAM SECTION @ CORNER
SCALE: 3"=1'-0"



9 FLOOR BEAM TOP FLANGE
SCALE: 3"=1'-0"

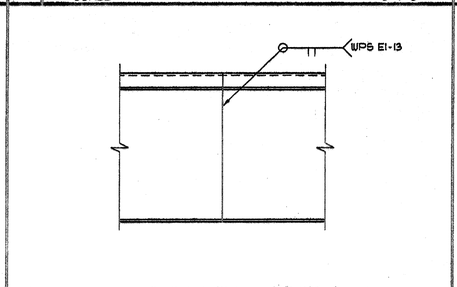


11 ROOF BEAM CONNECTION @ MOD LINE
SCALE: 3"=1'-0"

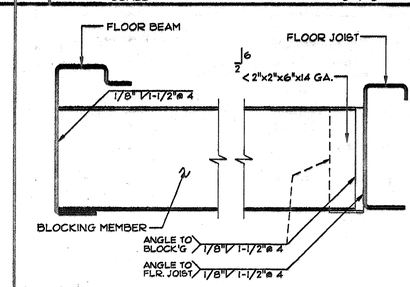


FOR FASTENER SCHEDULE, SEE "S3" SHEETS

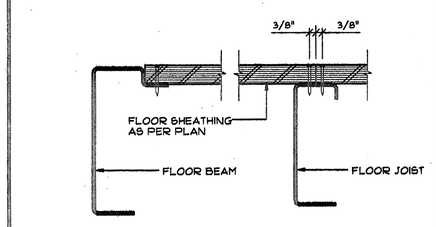
19 ALT. FLOOR BEAM @ JOIST CONN.
SCALE: 3"=1'-0"



13 BEAM SPLICE DETAIL
SCALE: 3"=1'-0"

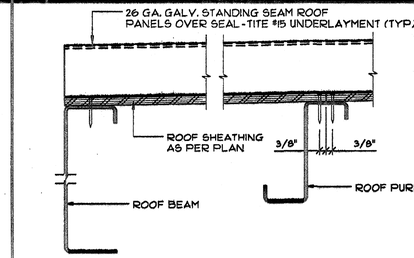


14 BLOCKING MEMBER CONNECTION
SCALE: 3"=1'-0"



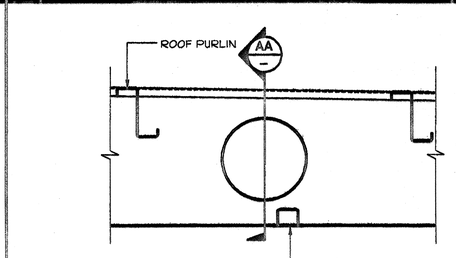
FOR FASTENER SCHEDULE, SEE "S3" SHEETS

15 FLOOR SHEATHING ATTACHMENT
SCALE: 3"=1'-0"

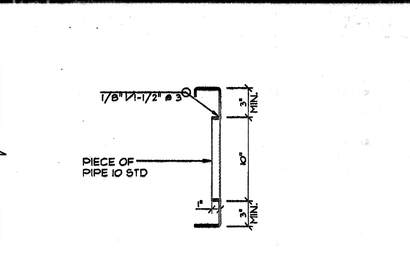


NOTE: THIS ROOF MEETS CLASS 'B' FIRE RATING
FOR FASTENER SCHEDULE, SEE "S3" SHEETS

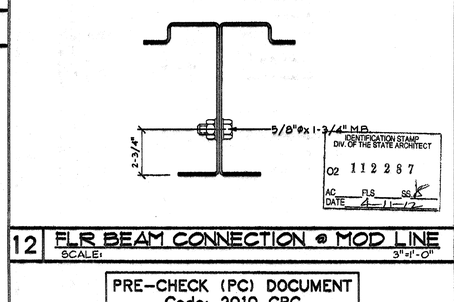
16 ROOF SHEATHING ATTACHMENT
SCALE: 3"=1'-0"



17 10"Ø ROOF BEAM PENETRATION @ MOD-LINE
SCALE: 1-1/2"=1'-0"



SECTION AA



12 FLR BEAM CONNECTION @ MOD LINE
SCALE: 3"=1'-0"

PRE-CHECK (PC) DOCUMENT
Code: 2010 CBC
A separate project application for construction is required.

CONFIDENTIAL MATERIAL-THESE DOCUMENTS ARE THE PROPERTY OF AND ARE NOT TO BE REPRODUCED OR DISTRIBUTED WITHOUT FULL KNOWLEDGE AND WRITTEN CONSENT FROM ENVIROPLEX, INC.
© COPYRIGHT ENVIROPLEX, INC. (ALL DRAWINGS PREPARED BY ENVIROPLEX, INC.)

CYS
STRUCTURAL ENGINEERS INC.
1760 Creekside Oaks Dr. Suite 200
Sacramento, CA 95833
(916) 286-1220 (916) 286-1266 Fax
www.cysinc.com

APR 10 2012

REGISTERED PROFESSIONAL ENGINEER
No. S2030
EXP. 9/30/13
STRUCTURAL
STATE OF CALIFORNIA

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

ENVIROPLEX, INC.
4777 E. CARPENTER ROAD STOCKTON, CA. 95215, (209) 466-8000

STRUCTURAL CONNECTION DETAILS

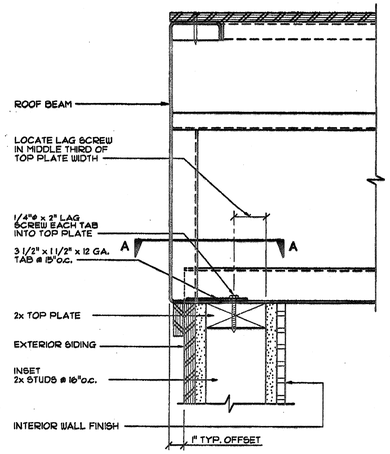
REV / DATE:	BY:

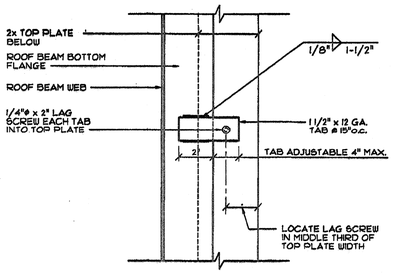
JOB No.:
DRAWN BY:
DATE:

THIS MODULAR BLDG. HAS BEEN ENGINEERED BY A REGISTERED STRUCTURAL ENGINEER AND PREVIOUSLY REVIEWED & APPROVED BY THE DIVISION OF THE STATE ARCHITECT, FIRE & LIFE SAFETY AND ACCESS COMPLIANCE SECTION

S4

30"x42" TO 150"x92" P.C.

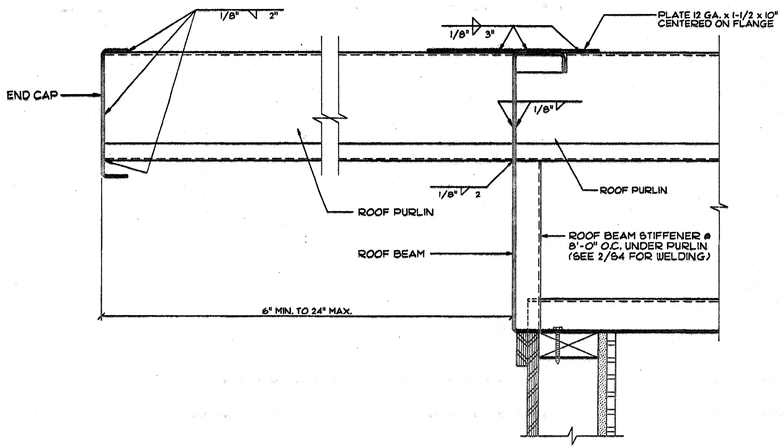




PLAN VIEW "A-A"

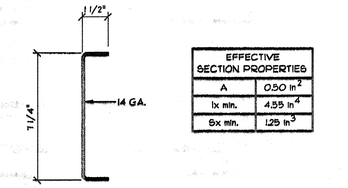
1 INSET STUDS - TOP PLATE CONNECTION

SCALE: 3"=1'-0"



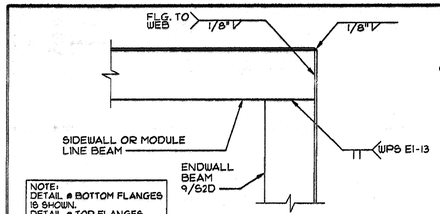
2 SIDEWALL OVERHANG DETAIL

SCALE: 3"=1'-0"



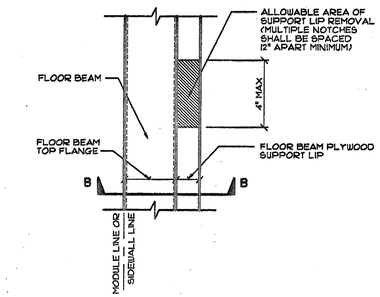
EFFECTIVE SECTION PROPERTIES	
A	0.50 in^2
Ix min.	4.55 in^4
Sx min.	1.25 in^3

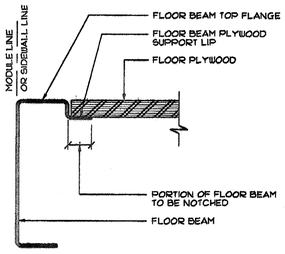
END CAP SECTION PROPERTIES



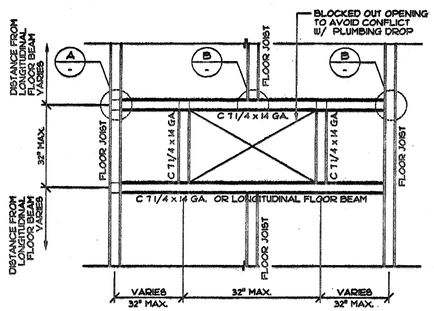
15 TYP. CHANNEL BEAM @ CORNERS

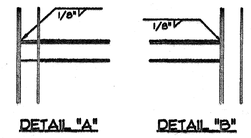
SCALE: 3"=1'-0"



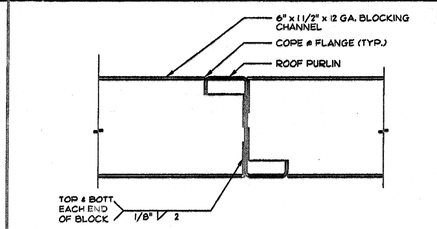


SECTION VIEW "B-B"

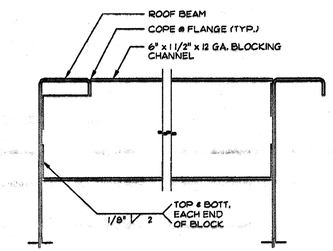




DETAIL "A" DETAIL "B"



BETWEEN PURLINS



BETWEEN BEAMS

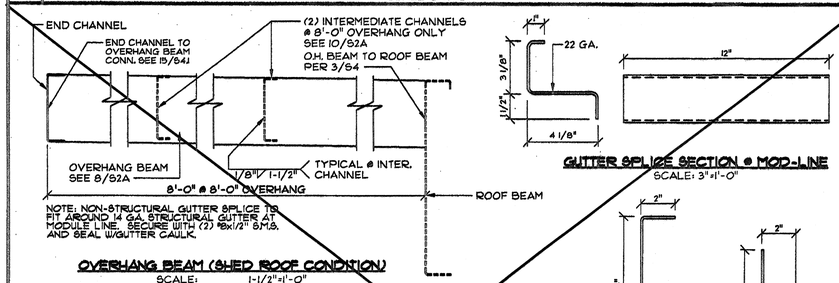
11 TYP. CHANNEL BLOCK INSTALLATION

SCALE: 3"=1'-0"

DIVISION OF THE STATE ARCHITECT

3 FLOOR BEAM TOP FLANGE NOTCH

SCALE: 3"=1'-0"

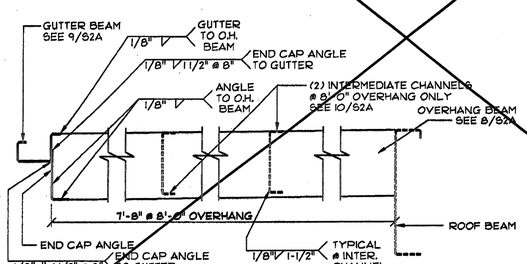


OVERHANG BEAM (SHED ROOF CONDITION)

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

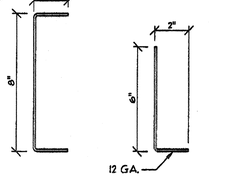
GUTTER SPLICE SECTION @ MOD-LINE

SCALE: 3"=1'-0"



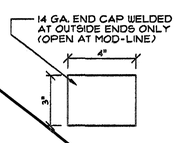
OVERHANG BEAM (SHED AND BI-PITCH ROOF CONDITION)

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



END CHANNEL END CAP ANGLE

SCALE: 3"=1'-0"



GUTTER END CAP

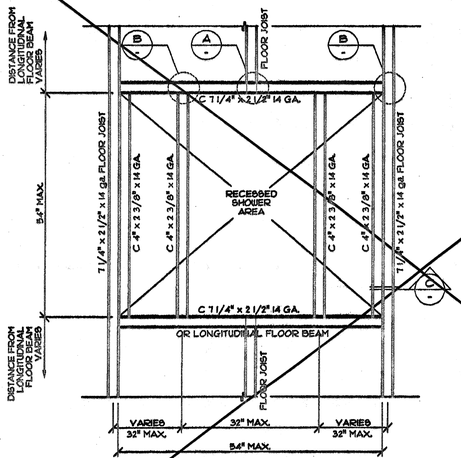
SCALE: 3"=1'-0"

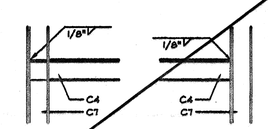
12 8'-0" OVERHANG DETAILS

SCALE: AS NOTED

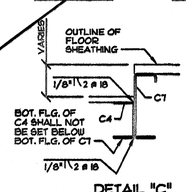
4 FLOOR JOIST PLUMBING BLOCK-OUT

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





DETAIL "A" DETAIL "B"



DETAIL "C"

14 RECESSED SHOWER FLOOR FRAMING PLAN

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

PRE-CHECK (PC) DOCUMENT
Code: 2010 CBC
A separate project application for construction is required.

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
02-112287
AC. FLS. SS. 18
DATE 4-11-12

CONFIDENTIAL MATERIAL-THESE DOCUMENTS ARE THE PROPERTY OF AND ARE NOT TO BE REPRODUCED OR DISTRIBUTED WITHOUT FULL KNOWLEDGE AND WRITTEN CONSENT FROM ENVIROPLEX, INC.
© COPYRIGHT ENVIROPLEX, INC. (ALL DRAWINGS PREPARED BY ENVIROPLEX, INC.)

APPROVALS

CYS
Structural Engineers Inc.
1760 Creekside Oaks Dr. Suite 280
Sacramento, CA 95833
(916) 920-2020 (916) 920-1556 Fax
www.cysinc.com

APR 10 2012

REGISTERED PROFESSIONAL ENGINEER
No. 82030
EXP. 6/30/13
STRUCTURAL
STATE OF CALIFORNIA

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

ENVIROPLEX, INC.
4777 E. CARPENTER ROAD STOCKTON, CA. 95215, (209) 466-8000

ALTERNATE STRUCTURAL DETAILS

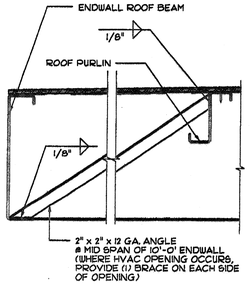
REV / DATE:	BY:

JOB No.:
DRAWN BY:
DATE:

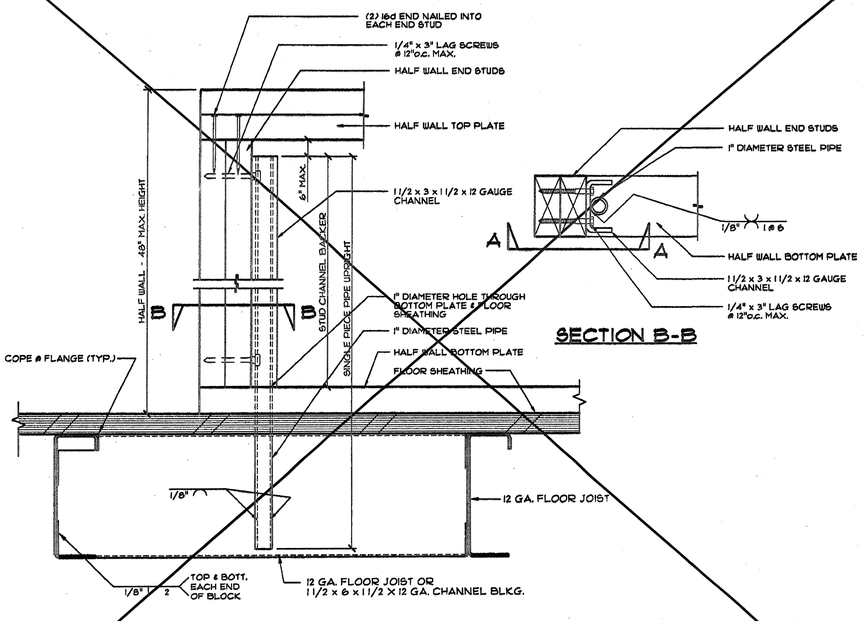
THIS MODULAR BLDG. HAS BEEN ENGINEERED BY A REGISTERED STRUCTURAL ENGINEER AND PREVIOUSLY REVIEWED & APPROVED BY THE DIVISION OF THE STATE ARCHITECT, FIRE & LIFE SAFETY AND ACCESS COMPLIANCE SECTION

S4.1

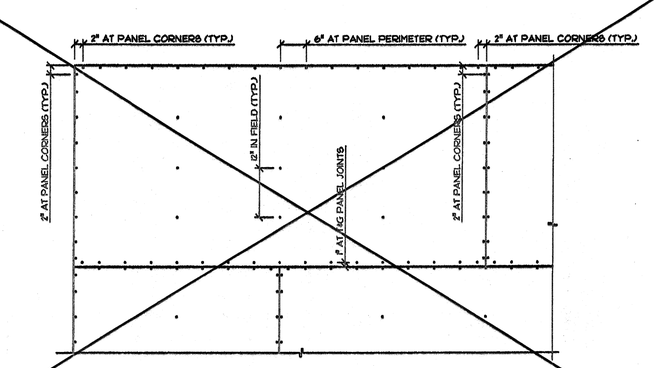
30"x32" TO 150"x32" P.C.



1 **ENDWALL DIAGONAL BRACE**
SCALE: 1 1/2"=1'-0"



11 **HALF WALL STABILIZER BRACKET**
SCALE: 3"=1'-0"



15 **FORTACRETE FLOOR - FASTENER LAYOUT**
SCALE: 3"=1'-0"

CYS
Structural Engineers Inc.
1760 Creekside Oaks Dr. Suite 200
Sacramento, CA 95833
(916)920-2020 (916)920-1556 Fax
www.cysse.com

REGISTERED PROFESSIONAL ENGINEER
ANTHONY "DANNEY" CYS
No. S2000
EXP. 9/30/13
STRUCTURAL
STATE OF CALIFORNIA

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

ENVIROPLEX, INC.

4777 E. CARPENTER ROAD STOCKTON, CA. 95215, (209) 466-8000

ALTERNATE STRUCTURAL DETAILS

DIVISION OF THE STATE ARCHITECT

PRE-CHECK (PC) DOCUMENT
Code: 2010 CBC
A separate project application for construction is required.

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
02-112287
AC____ FLS____ SS 18
DATE 4-11-12

REVISION DATE:	BY:

JOB No.:
DRAWN BY:
DATE:

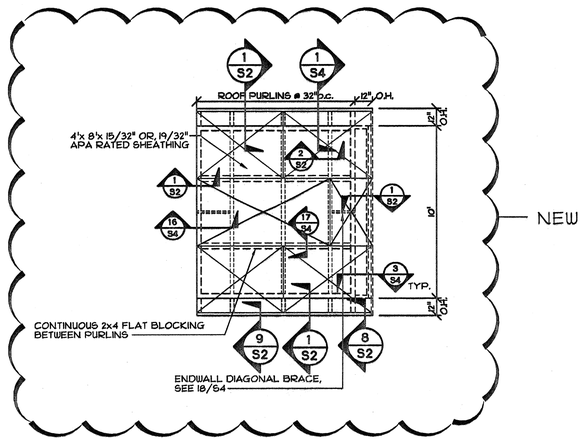
THIS MODULAR BLDG. HAS BEEN ENGINEERED BY A REGISTERED STRUCTURAL ENGINEER AND PREVIOUSLY REVIEWED & APPROVED BY THE DIVISION OF THE STATE ARCHITECT, FIRE & LIFE SAFETY AND ACCESS COMPLIANCE SECTION

CONFIDENTIAL MATERIAL—THESE DOCUMENTS ARE THE PROPERTY OF AND ARE NOT TO BE REPRODUCED OR DISTRIBUTED WITHOUT FULL KNOWLEDGE AND WRITTEN CONSENT FROM ENVIROPLEX, INC.
© COPYRIGHT ENVIROPLEX, INC. (ALL DRAWINGS PREPARED BY ENVIROPLEX, INC.)

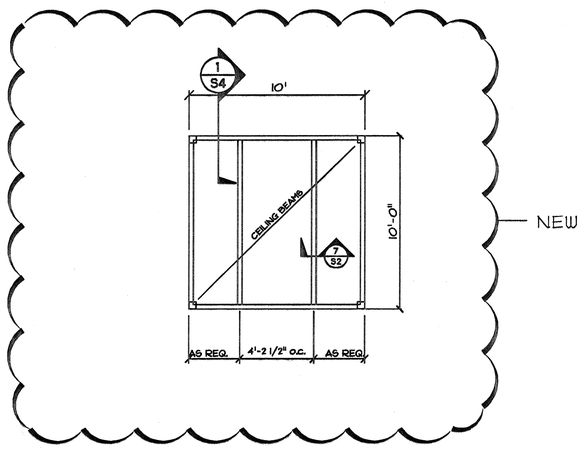
17 APPROVALS

S4.2

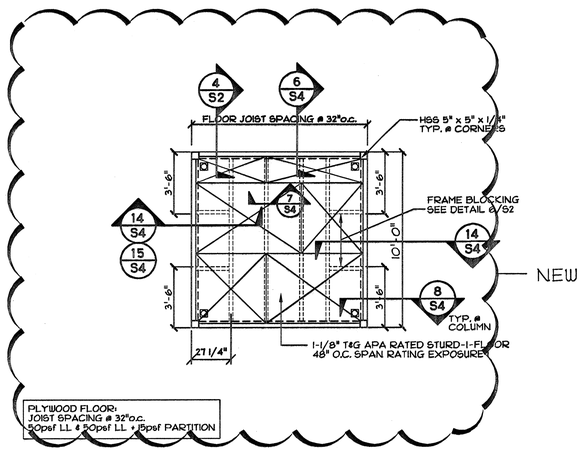
30'x32' TO 150'x32' P.C.



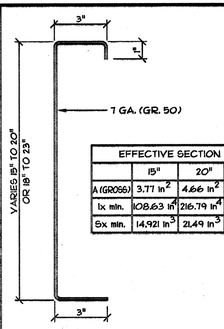
13 ROOF FRAMING PLAN
SCALE: 1/4"=1'-0"



14 CEILING FRAMING PLAN
SCALE: 1/4"=1'-0"

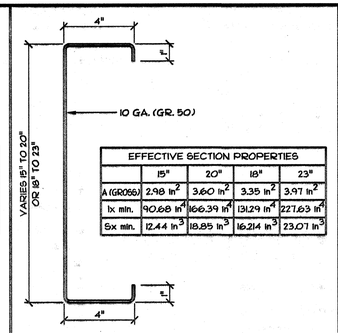


15 FLOOR FRAMING PLAN
SCALE: 1/4"=1'-0"



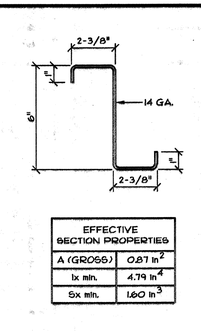
EFFECTIVE SECTION PROPERTIES	15"	20"	18"	23"
A (GROSS)	3.77 in²	4.66 in²	4.31 in²	5.21 in²
Ix min.	108.63 in⁴	216.79 in⁴	169.47 in⁴	303.04 in⁴
Sx min.	14.921 in³	21.49 in³	19.08 in³	27.27 in³

1 ROOF BEAM SECTION
SCALE: 3"=1'-0"



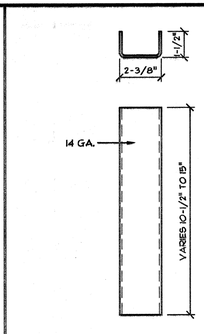
EFFECTIVE SECTION PROPERTIES	15"	20"	18"	23"
A (GROSS)	2.98 in²	3.60 in²	3.35 in²	3.97 in²
Ix min.	90.68 in⁴	166.39 in⁴	131.29 in⁴	227.63 in⁴
Sx min.	12.44 in³	18.85 in³	16.214 in³	23.07 in³

1.1 OPT. ROOF BEAM SECT.
SCALE: 3"=1'-0"

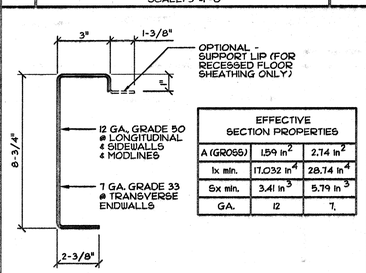


EFFECTIVE SECTION PROPERTIES	
A (GROSS)	0.87 in²
Ix min.	4.79 in⁴
Sx min.	1.60 in³

2 ROOF PURLIN SECT.
SCALE: 3"=1'-0"

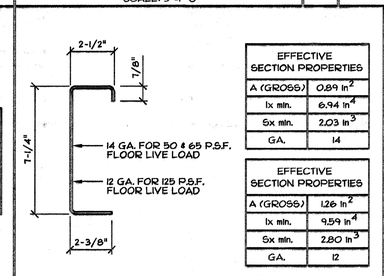


3 ROOF BEAM STIFF.
SCALE: 3"=1'-0"



EFFECTIVE SECTION PROPERTIES		
A (GROSS)	1.59 in²	2.74 in²
Ix min.	17.032 in⁴	28.74 in⁴
Sx min.	3.41 in³	5.79 in³
GA.	12	7

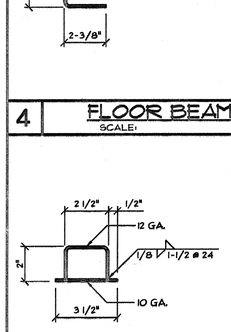
4 FLOOR BEAM SECTION
SCALE: 3"=1'-0"



EFFECTIVE SECTION PROPERTIES	
A (GROSS)	0.89 in²
Ix min.	6.94 in⁴
Sx min.	2.03 in³
GA.	14

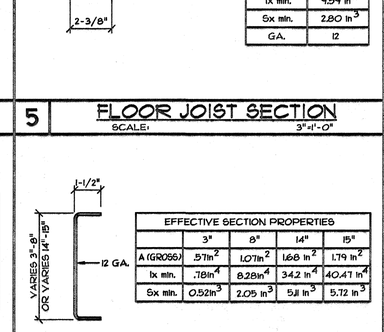
EFFECTIVE SECTION PROPERTIES	
A (GROSS)	1.26 in²
Ix min.	9.59 in⁴
Sx min.	2.80 in³
GA.	12

5 FLOOR JOIST SECTION
SCALE: 3"=1'-0"



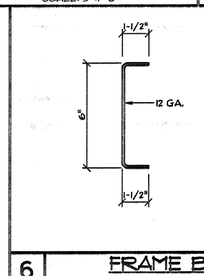
EFFECTIVE SECTION PROPERTIES	
A (GROSS)	1.05 in²
Ix min.	0.66 in⁴
Iy min.	1.08 in⁴
Sx min.	0.829 in³
Sy min.	0.624 in³

4 FLOOR BEAM SECTION
SCALE: 3"=1'-0"



EFFECTIVE SECTION PROPERTIES	3"	8"	14"	15"
A (GROSS)	.571in²	1.07in²	1.68 in²	1.79 in²
Ix min.	.781in⁴	8.281in⁴	34.2 in⁴	40.47 in⁴
Sx min.	0.521in³	2.05 in³	5.11 in³	5.72 in³

5 FLOOR JOIST SECTION
SCALE: 3"=1'-0"



EFFECTIVE SECTION PROPERTIES	
A (GROSS)	.891in²
Ix min.	4.121in⁴
Sx min.	1.341in³

6 FRAME BLOCKING SECTION
SCALE: 3"=1'-0"

1. ALL STRUCTURAL STEEL SHALL BE ASTM A101 GRADE 36. UNLESS OTHERWISE NOTED
2. STRUCTURAL STEEL TUBING SHALL BE ASTM A500 GRADE B Fy=46
3. HIGH STRENGTH BOLTS SHALL BE ASTM A325.
4. ALL MACHINE BOLTS SHALL BE ASTM A307.
5. WELDING SHALL BE DONE PER C.B.C. SECTION 2204A.1.2 & AWS D 1.8 - D6.3.
6. WELDING INSPECTION TO BE PER C.B.C. SECTION 1704A.3.1.1
7. SEE TESTS AND INSPECTIONS REPORT SHEET A0 FOR REQUIREMENTS.
8. LIGHT GAGE METAL & FRAMING THICKNESSES

GAGE	DESIGN THICKNESS	MIN. DELIVERED THICKNESS
7 GA. STEEL	.1793"	.170"
10 GA. STEEL	.1345"	.128"
12 GA. STEEL	.1046"	.0994"
14 GA. STEEL	.0747"	.0710"

R = 3/16" MAX.
TYPICAL CORNER RADIUS

9. MINIMUM STEEL THICKNESS SHALL NOT BE LESS THAN 95% OF THE DESIGN THICKNESS PER A151 - GENERAL AND A151 - NAS.

STEEL SPECIFICATION

1. ALL STRUCTURAL PLYWOOD SHALL BE MANUFACTURED TO PRODUCT STANDARD DOC PS-1 AND INSPECTED AND GRADE MARKED AT THE MILL BY AN APPROVED QUALITY CONTROL AGENCY SUCH AS APA OR TECO.
2. ROOF SHEATHING SHALL BE 4'x 8'x 15/32" GRADE MARKED 32/16 SPAN INDEX, EXP. 1 OR 19/32" GRADE MARKED 40/20 SPAN INDEX, EXP1.
3. FLOOR SHEATHING SHALL BE 4'x 8'x 1-1/8" T & G APA OR TECO RATED UNDERLAYMENT GRADE STURD-I-FLOOR OR EQUAL, SPAN RATING = 48".
4. WALL SHEATHING SHALL BE 3/8" HARDBOARD SIDING APA EXTERIOR TYPE 303 GROUP II M.D.O., EXTERIOR GROUP II, OR OPTIONAL 5/8" T1-11 APA EXTERIOR SIDING.
5. SEE FASTENER SCHEDULE, "S3" SHEETS.

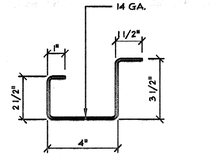
SHEATHING / PLYWOOD SPECIFICATION

DIVISION OF THE STATE ARCHITECT

CONFIDENTIAL MATERIAL-THESE DOCUMENTS ARE THE PROPERTY OF AND ARE NOT TO BE REPRODUCED OR DISTRIBUTED WITHOUT FULL KNOWLEDGE AND WRITTEN CONSENT FROM ENVIROPLEX, INC. © COPYRIGHT ENVIROPLEX, INC. (ALL DRAWINGS PREPARED BY ENVIROPLEX, INC.)

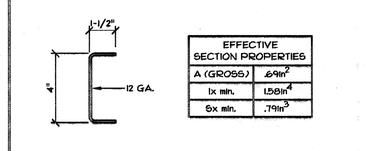
APPROVALS

15 FLOOR FRAMING PLAN
SCALE: 1/4"=1'-0"



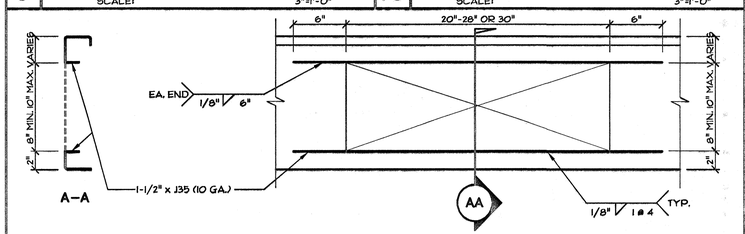
EFFECTIVE SECTION PROPERTIES	
A (GROSS)	0.85 in²
Ix min.	1.26 in⁴
Sx min.	0.97 in³

9 GUTTER BEAM SECTION
SCALE: 3"=1'-0"



EFFECTIVE SECTION PROPERTIES	
A (GROSS)	.691in²
Ix min.	1.581in⁴
Sx min.	.791in³

10 INTERMEDIATE CHANNELS
SCALE: 3"=1'-0"



11 HVAC PENETRATION @ ENDWALL ROOF BEAM
SCALE: 1-1/2"=1'-0"

CYS
STRUCTURAL ENGINEERS INC.
6165 Stoneridge Mall Road, Suite 105
Pleasanton, CA 94588
(925) 226-0165 (510) 329-6154 Fax
(925) 226-0167

REGISTERED PROFESSIONAL ENGINEER ARTHUR ERNEST ROSS No. S2030 EXP. 9/30/15 STRUCTURAL STATE OF CALIFORNIA

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

ENVIROPLEX, INC.
4777 E. CARPENTER ROAD STOCKTON, CA. 95215, (209) 466-8000

(1) 40'x32' R.R./CONCESSION and (1) 10'x10' TICKET BOOTH
FOR COLLEGE PARK HIGH SCHOOL
MT. DIABLO UNIFIED SCHOOL DISTRICT

BI-PITCH ROOF, CEILING, & FLOOR FRAMING PLANS, STRUCTURAL STEEL PROPERTIES, NOTES

REV / DATE:	BY:

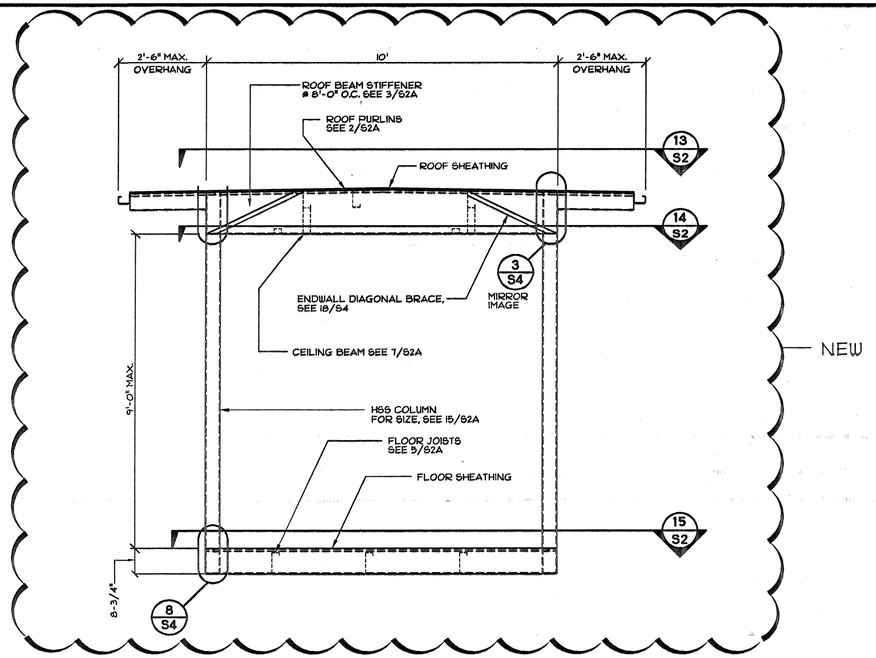
JOB No.:	14-033
DRAWN BY:	HS
DATE:	OCT 17 2014

THIS MODULAR BLDG. HAS BEEN ENGINEERED BY A REGISTERED STRUCTURAL ENGINEER AND PREVIOUSLY REVIEWED & APPROVED BY THE DIVISION OF THE STATE ARCHITECT, FIRE & LIFE SAFETY AND ACCESS COMPLIANCE SECTION

TS2

PC # 02-112290

10'x10' TICKET BOOTH



1 TYPICAL LONGITUDINAL FRAME SECTION - BI-PITCH ROOF
SCALE: 1/2"=1'-0"

WALL TO FRAME FASTENING:

- WALL PANEL TOP PLATE TO PERIMETER ROOF BEAM. — (1) 1/4"ø x 2" LAG SCREWS FROM ROOF BEAM BOTT. FLANGE INTO TOP PLATE @ 15"o.c. MAX.
- WALL PANEL BOTTOM PLATE TO PERIMETER FLOOR BEAM. — 1/4"-20 TEKS 3/4 SCREWS @ 32"o.c. FROM BOTT. PLATE INTO FLOOR BEAM TOP FLANGE
- WALL PANEL SIDE STUDS TO CORNER COLUMNS — #12-24 x 2 1/2" S.D.S. @ 16"o.c. FROM SIDE STUD INTO STEEL CORNER COLUMN.
- TOP AND BOTTOM PLATE TO STUDS AND KING STUDS — (3) .135 x 3 1/4" LONG MACHINE NAIL
- DOUBLE STUDS, TRIMMERS, SILLS AND CRIPPLES FACE NAILED — .135 x 3 1/4" LONG MACHINE NAILS @ 8"o.c.
- CRIPPLES, TRIMMERS END NAILED TO PLATES AND SILLS. — (3) .135 x 3 1/4" LONG MACHINE NAIL EA. END
- CRIPPLES, TRIMMERS NAILED TO HEADERS. — (3) .135 x 3 1/4" LONG MACHINE NAIL
- ALL HANGERS, STRAPS, CLIPS, ETC. — NAILED AS PER MANUFACTURERS SPECS.
- FASTENING CONDITIONS NOT NOTED ABOVE — TABLE 2304.9.1 2007 C.B.C.

SHEATHING / PLYWOOD NAILING & NOTES:

1. DO NOT CRUSH PLYWOOD FACE PLY (OUTER VENEER LAYER) BY OVER DRIVING SCREWS, MACHINE OR HAND NAILS.
2. UNDER DRIVEN NAILS SHALL BE CORRECTED BY HAND SET.
3. REMOVE AND REPLACE NAILS DRIVEN THAT MISS FRAMING OR SUPPORT.
4. ALL CORRECTIVE NAILING SHALL BE DONE BY HAND NAILING.
5. H.D.G.= HOT DIPPED GALVANIZED WITH MINIMUM COATING OF 1 OZ PER SQ. F.T OF ZINC. OR MECHANICALLY GALVANIZED PER ASTM. F-1667.

FLOOR - STD (JOISTS SPACED @ 32"o.c. MAX.)

1-1/8" APA RATED T&G STURDI FLOOR TO BEAM & JOISTS		.144 x 1-3/4" PIN (ICC ER-4144) @ 6"o.c. SHEET EDGES, 10"o.c. IN FIELD.

FLOOR - OPT 1 (JOISTS SPACED @ 24"o.c MAX.)

3/4" "FORTACRETE" T & G, NON-COMBUSTIBLE CEMENT PANEL (ESR-1792) W/ 3/8" SANDED PLYWOOD OVERLAY.	FORTACRETE-	MIN. #8 x 1 3/4" SELF-DRILLING, SELF-TAPPING BUGLE HEAD SCREWS DIRECT TO STL. JOISTS (ASTM C954 & C1513). (SEE 15/64.2 FOR FASTENER LAYOUT)
	OVERLAY-	MIN. #8 x 2" SELF-DRILLING, SELF-TAPPING BUGLE HEAD SCREWS @ 6"o.c. PANEL EDGES, 12"o.c. FIELD.

ROOF

15/32" APA RATED PLYWOOD TO PURLINS & BEAMS (OPT. 19/32" PLYWOOD ROOF)	SHEET EDGES @ BEAM & PURLIN	.144 x 1 1/4" PIN @ 6"o.c.
	FIELD @ PURLIN	.144 x 1 1/4" PIN @ 12"o.c. (ICC ER-4144)

SIDING

SIDING @ 40' SIDEWALLS TO 2x4 OR 2x6 STUDS	SHEET EDGES	.131" x 2 1/2" @ 6"o.c. H.D.G. NAILS
	FIELD	.131" x 2 1/2" @ 12"o.c. H.D.G. NAILS
SIDING @ 12' ENDWALLS TO 2x4 OR 2x6 STUDS	SHEET EDGES	.131" x 2 1/2" @ 3"o.c. H.D.G. NAILS
	FIELD	.131" x 2 1/2" @ 12"o.c. H.D.G. NAILS

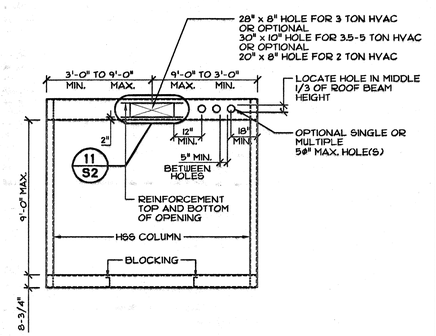
GYPSUM WALLBOARD

1/2" GYP. BOARD TO 2x4 OR 2x6 STUDS	SHEET EDGES	.121 x 1 1/2" COATED NAILS @ 8"o.c.
	FIELD	.121 x 1 1/2" COATED NAILS @ 8"o.c.

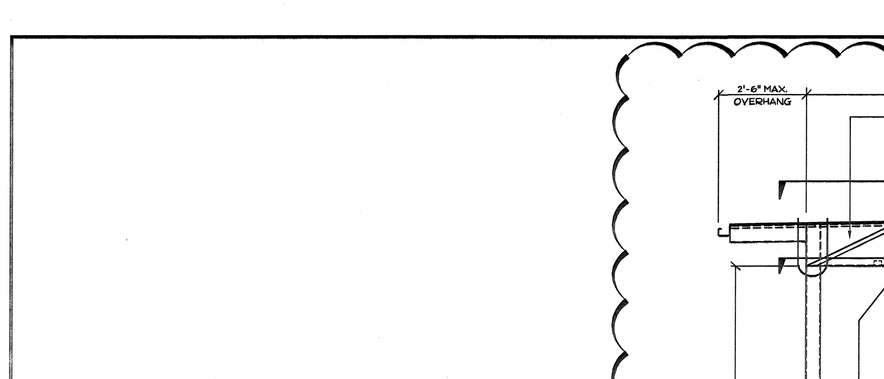
OVERHANG SOFFIT

1/2" APA RATED SHEATHING	SHEET EDGES	#8 x 1" WOOD SCREW @ 6" O.C.
	FIELD	#8 x 1" WOOD SCREW @ 12" O.C.

2 NAILING SCHEDULE

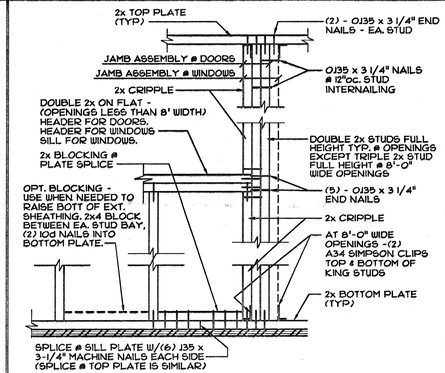


6 END FRAME ELEVATION
SCALE: 1/4"=1'-0"



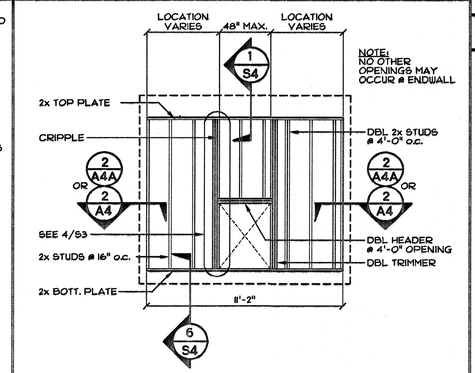
NOTE: 2x4 OR 2x6 STUDS MAY BE USED.

3 TYPICAL SIDEWALL FRAMING ELEVATION
SCALE: 1/4"=1'-0"



NOTE: 2x4 OR 2x6 STUDS MAY BE USED. FOR "NAILING SCHEDULE", SEE 2/63

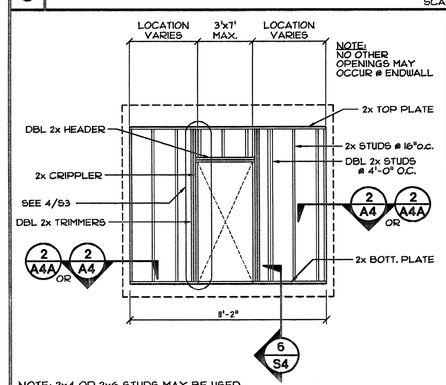
4 STUD NAILING DETAIL
SCALE: 1"=1'-0"



NOTE: 2x4 OR 2x6 STUDS MAY BE USED.

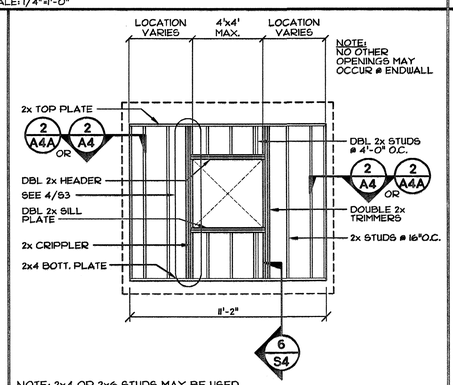
5 ENDWALL FRAMING - INTERIOR HVAC
SCALE: 1/4"=1'-0"

6 END FRAME ELEVATION
SCALE: 1/4"=1'-0"



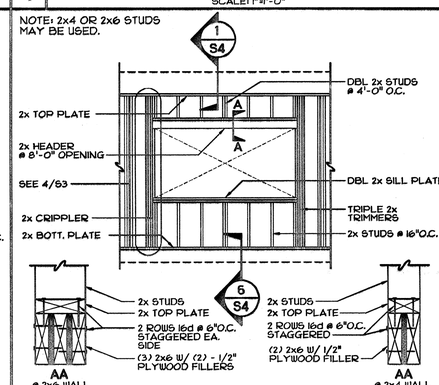
NOTE: 2x4 OR 2x6 STUDS MAY BE USED.

7 ENDWALL FRAMING - EXT. DOOR
SCALE: 1/4"=1'-0"

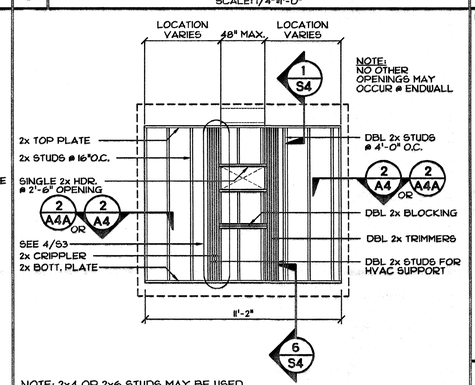


NOTE: 2x4 OR 2x6 STUDS MAY BE USED.

8 ENDWALL FRAMING - EXT. WINDOW
SCALE: 1/4"=1'-0"



9 FRAMING @ 8'-0" OPENING
SCALE: 1/4"=1'-0"



NOTE: 2x4 OR 2x6 STUDS MAY BE USED.

10 ENDWALL FRAMING - EXT. HVAC
SCALE: 1/4"=1'-0"

DIVISION OF THE STATE ARCHITECT

APPROVALS

CONFIDENTIAL MATERIAL—THESE DOCUMENTS ARE THE PROPERTY OF AND ARE NOT TO BE REPRODUCED OR DISTRIBUTED WITHOUT FULL KNOWLEDGE AND WRITTEN CONSENT FROM ENVIROPLEX, INC. © COPYRIGHT ENVIROPLEX, INC. (ALL DRAWINGS PREPARED BY ENVIROPLEX, INC.)

CYS
STRUCTURAL ENGINEERS INC.
2445 Mountain Park Drive, Suite 202
Stockton, CA 95207
(209) 870-1559 Fax (209) 870-1569

REGISTERED PROFESSIONAL ENGINEER — ANTHONY ERNEST ROSS — No. S2030 EXP. 9/30/15 — STRUCTURAL — STATE OF CALIFORNIA

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

ENVIROPLEX, INC.
4777 E. CARPENTER ROAD STOCKTON, CA. 95215, (209) 466-8000

(1) 40'x32' R.R./CONCESSION and (1) 10'x10' TICKET BOOTH
FOR COLLEGE PARK HIGH SCHOOL
MT. DIABLO UNIFIED SCHOOL DISTRICT

BI-PITCHED ROOF
LONGITUDINAL BUILDING SECTION, WALL FRAMING ELEVATIONS, END FRAME ELEVATION, NAIL SCHEDULE

REV / DATE:	BY:

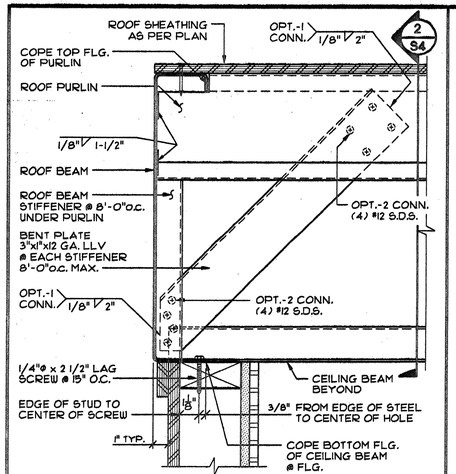
JOB No.:	14-033
DRAWN BY:	HS
DATE:	OCT 17 2014

THIS MODULAR BLDG. HAS BEEN ENGINEERED BY A REGISTERED STRUCTURAL ENGINEER AND PREVIOUSLY REVIEWED & APPROVED BY THE DIVISION OF THE STATE ARCHITECT, FIRE & LIFE SAFETY AND ACCESS COMPLIANCE SECTION

PC # 02-112290

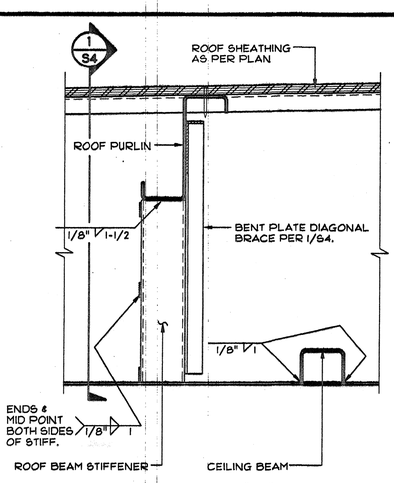
10'x10' TICKET BOOTH

TS3



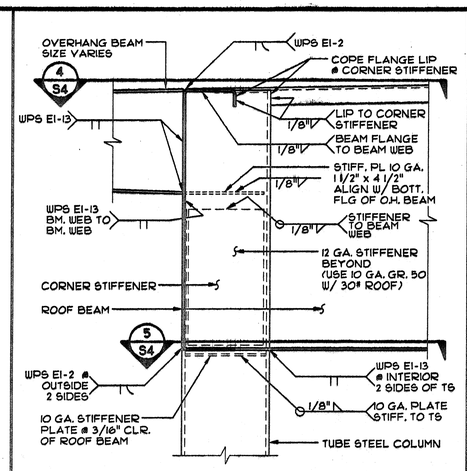
FOR FASTENER SCHEDULE, SEE "S3" SHEETS

1 ROOF BEAM SECTION @ PURLIN
SCALE: 3"=1'-0"

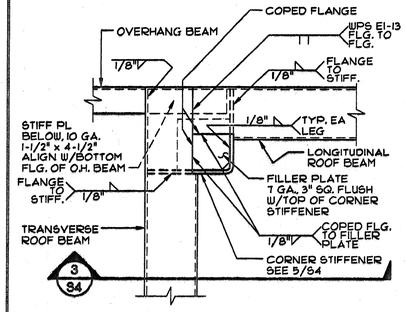


FOR FASTENER SCHEDULE, SEE "S3" SHEETS

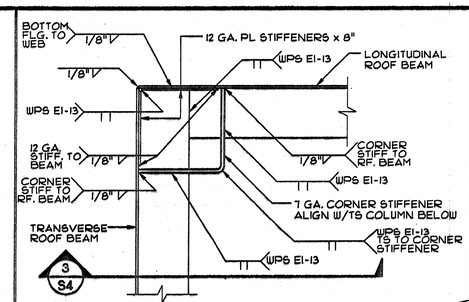
2 PURLIN TO STIFFENER AT BEAM
SCALE: 3"=1'-0"



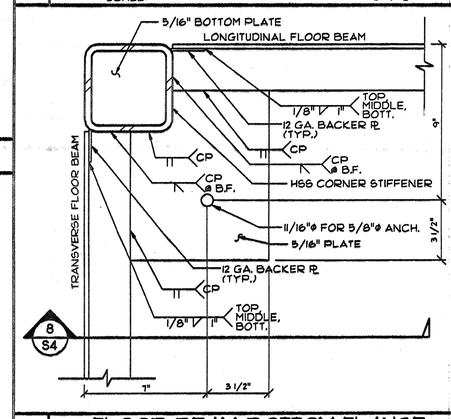
3 ROOF BEAM SECTION @ CORNER
SCALE: 3"=1'-0"



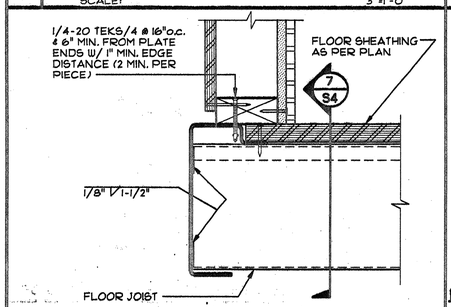
4 ROOF BEAM TOP FLANGE
SCALE: 3"=1'-0"



5 ROOF BEAM BOTTOM FLANGE
SCALE: 3"=1'-0"

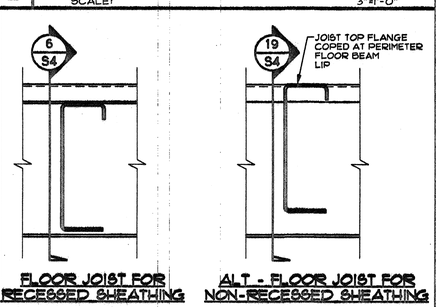


10 FLOOR BEAM BOTTOM FLANGE
SCALE: 3"=1'-0"



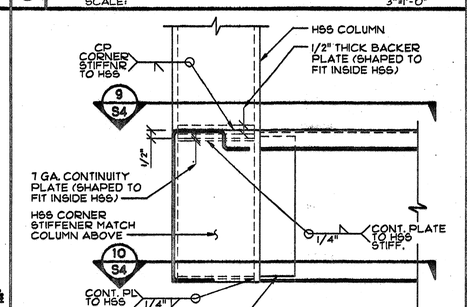
FOR FASTENER SCHEDULE, SEE "S3" SHEETS

15 FLOOR SHEATHING ATTACHMENT
SCALE: 3"=1'-0"

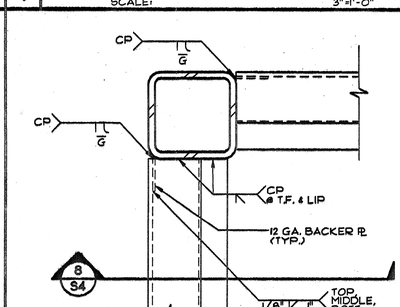


FOR CLARITY, FLOOR SHEATHING IS NOT SHOWN.

16 ROOF SHEATHING ATTACHMENT
SCALE: 3"=1'-0"



17 FLOOR BEAM SECTION @ CORNER
SCALE: 3"=1'-0"



9 FLOOR BEAM TOP FLANGE
SCALE: 3"=1'-0"

19 FLOOR JOIST PENETRATION
SCALE: 3"=1'-0"

DIVISION OF THE STATE ARCHITECT

FOR FASTENER SCHEDULE, SEE "S3" SHEETS

15 FLOOR SHEATHING ATTACHMENT
SCALE: 3"=1'-0"

12 ALT. FLOOR BEAM @ JOIST CONN.
SCALE: 3"=1'-0"

13 BEAM SPLICE DETAIL
SCALE: 3"=1'-0"

14 BLOCKING MEMBER CONNECTION
SCALE: 3"=1'-0"

NOTE: THIS ROOF MEETS CLASS 'B' FIRE RATING FOR FASTENER SCHEDULE, SEE "S3" SHEETS

16 ROOF SHEATHING ATTACHMENT
SCALE: 3"=1'-0"

17 FLAT BLOCKING @ ROOF
SCALE: 3"=1'-0"

18 ENDWALL DIAGONAL BRACE
SCALE: 11/2"=1'-0"

PRE-CHECK (PC) DOCUMENT
Code: 2010 CBC
A separate project application for construction is required.

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
02-112290
AC. FLS. SS.
DATE 4-6-12

CONFIDENTIAL MATERIAL-THESE DOCUMENTS ARE THE PROPERTY OF AND ARE NOT TO BE REPRODUCED OR DISTRIBUTED WITHOUT FULL KNOWLEDGE AND WRITTEN CONSENT FROM ENVIROPLEX, INC. © COPYRIGHT ENVIROPLEX, INC. (ALL DRAWINGS PREPARED BY ENVIROPLEX, INC.)

APPROVALS

CYS
STRUCTURAL ENGINEERS INC.
3760 Crecklide Oak Dr. Suite 280
Stockton, CA 95219
(916) 920-3020 (916) 920-1560 FAX
www.cysengr.com

REGISTERED PROFESSIONAL ENGINEER
No. S2030
EXP. 9/30/13
STRUCTURAL
STATE OF CALIFORNIA

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

ENVIROPLEX, INC.
4777 E. CARPENTER ROAD STOCKTON, CA. 95215, (209) 466-8000

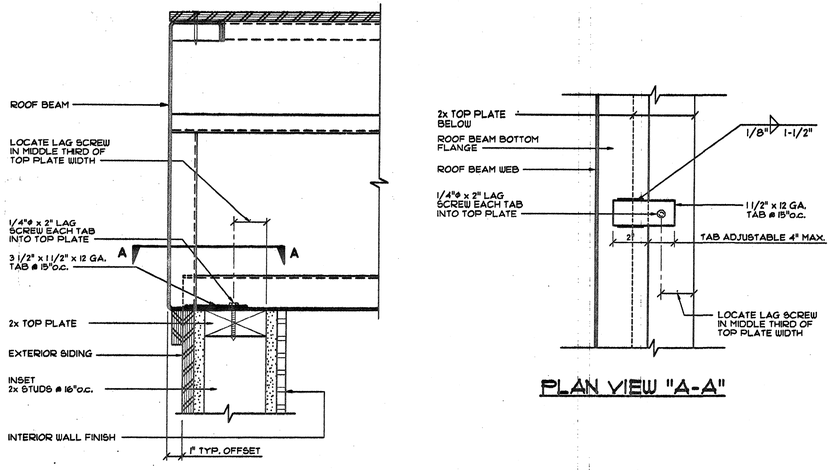
STRUCTURAL CONNECTION DETAILS

REV / DATE:	BY:

JOB No.:
DRAWN BY:
DATE:

THIS MODULAR BLDG. HAS BEEN ENGINEERED BY A REGISTERED STRUCTURAL ENGINEER AND PREVIOUSLY REVIEWED & APPROVED BY THE DIVISION OF THE STATE ARCHITECT, FIRE & LIFE SAFETY AND ACCESS COMPLIANCE SECTION

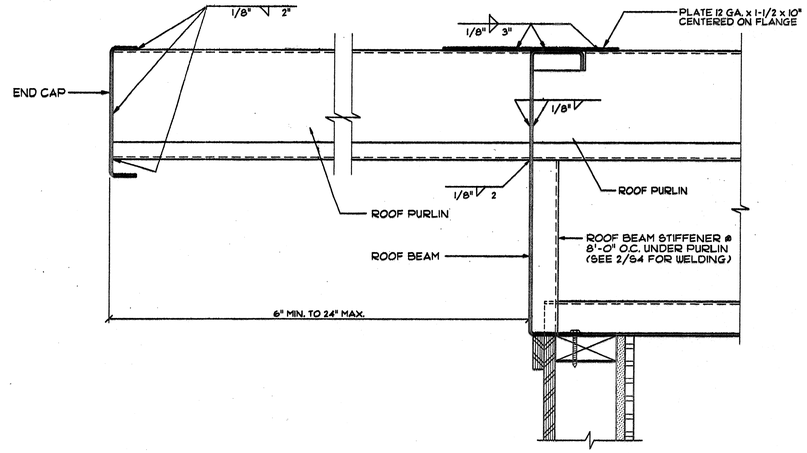
TS4



PLAN VIEW "A-A"

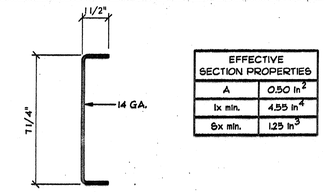
1 INSET STUDS - TOP PLATE CONNECTION

SCALE: 3"=1'-0"



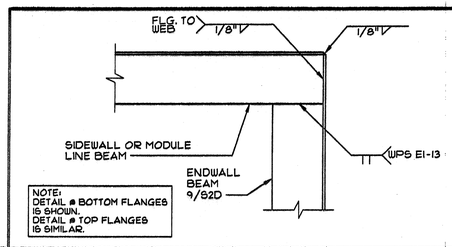
2 SIDEWALL OVERHANG DETAIL

SCALE: 3"=1'-0"



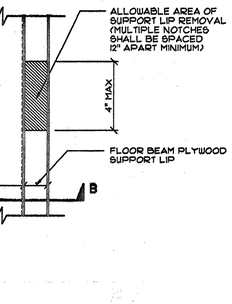
EFFECTIVE SECTION PROPERTIES	
A	0.50 in^2
Ix min.	4.55 in^4
Sx min.	1.25 in^3

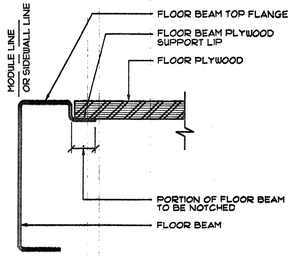
END CAP SECTION PROPERTIES



15 TYP. CHANNEL BEAM @ CORNERS

SCALE: 3"=1'-0"

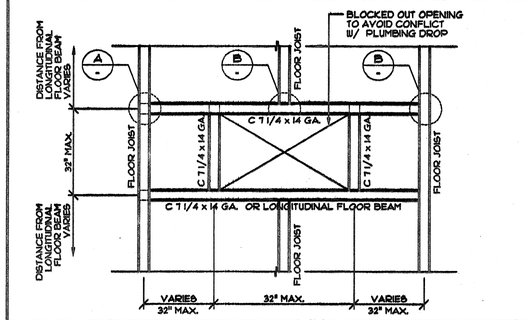


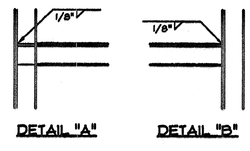


SECTION VIEW "B-B"

3 FLOOR BEAM TOP FLANGE NOTCH

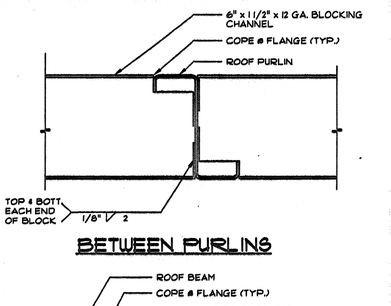
SCALE: 3"=1'-0"



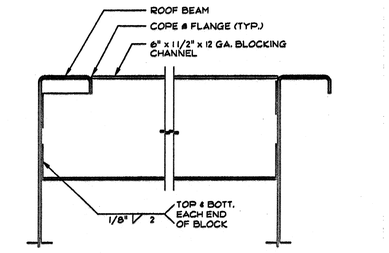


4 FLOOR JOIST PLUMBING BLOCK-OUT

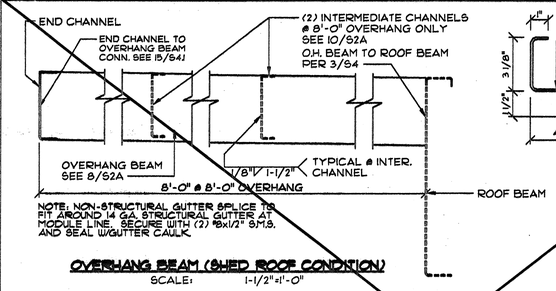
SCALE: 3/4"=1'-0"



BETWEEN PURLINS

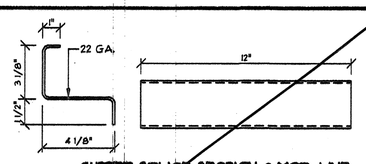


BETWEEN BEAMS



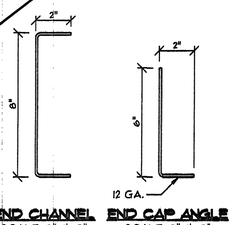
OVERHANG BEAM (SHED ROOF CONDITION)

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



GUTTER SPLICE SECTION @ MOD-LINE

SCALE: 3"=1'-0"

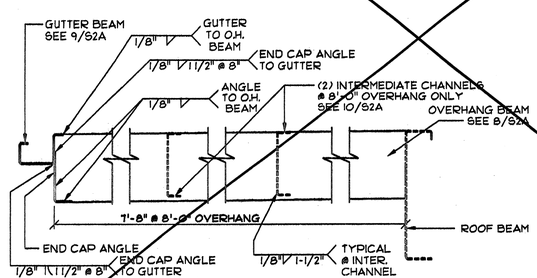


END CHANNEL

SCALE: 3"=1'-0"

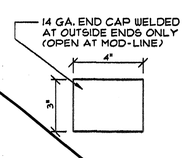
END CAP ANGLE

SCALE: 3"=1'-0"



OVERHANG BEAM (SHED AND BI-PITCH ROOF CONDITION)

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

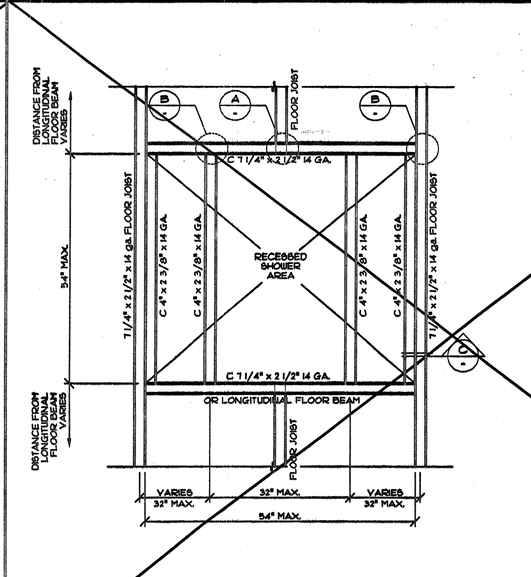


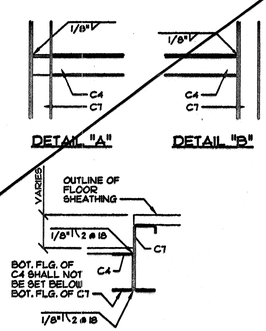
GUTTER END CAP

SCALE: 3"=1'-0"

12 8'-0" OVERHANG DETAILS

SCALE: AS NOTED





14 RECESSED SHOWER FLOOR FRAMING PLAN

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

11 TYP. CHANNEL BLOCK INSTALLATION

SCALE: 3"=1'-0"

DIVISION OF THE STATE ARCHITECT

PRE-CHECK (PC) DOCUMENT
Code: 2010 CBC
A separate project application for construction is required.

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
02-112290
AC. ___ FLS ___ SS. ___
DATE 4-6-12

CONFIDENTIAL MATERIAL-THESE DOCUMENTS ARE THE PROPERTY OF AND ARE NOT TO BE REPRODUCED OR DISTRIBUTED WITHOUT FULL KNOWLEDGE AND WRITTEN CONSENT FROM ENVIROPLEX, INC.
© COPYRIGHT ENVIROPLEX, INC. (ALL DRAWINGS PREPARED BY ENVIROPLEX, INC.)

APPROVALS

CYS
STRUCTURAL ENGINEERS INC.
8700 Creekside Oaks Dr. Suite 280
Sacramento, CA 95826
(916) 920-2020 (916) 920-1350 Fax
www.cysceg.com

REGISTERED PROFESSIONAL ENGINEER
PATHUM "ANNIE" ASSAVAPISIT
No. S2030
EXP. 9/30/13
STRUCTURAL
STATE OF CALIFORNIA

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

ENVIROPLEX, INC.
4777 E. CARPENTER ROAD STOCKTON, CA. 95215, (209) 466-8000

ALTERNATE STRUCTURAL DETAILS

REV / DATE:	BY:

JOB No.:
DRAWN BY:
DATE:

THIS MODULAR BLDG. HAS BEEN ENGINEERED BY A REGISTERED STRUCTURAL ENGINEER AND PREVIOUSLY REVIEWED & APPROVED BY THE DIVISION OF THE STATE ARCHITECT, FIRE & LIFE SAFETY AND ACCESS COMPLIANCE SECTION

TS4.1

12'x40' F.C.

ALL IDEAS, DESIGNS, ARRANGEMENTS, AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY AND THE PROPERTY OF VERDE DESIGN, INC. AND WERE CREATED, EVOLVED, AND DEVELOPED FOR USE ON AND IN CONNECTION WITH THE SPECIFIED PROJECT. NONE OF SUCH IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL BE USED, REPRODUCED, OR PUBLISHED BY ANY METHOD, IN WHOLE OR IN PART, OR DISCLOSED TO ANY PERSON, FIRM, OR CORPORATION FOR ANY PURPOSE WHATSOEVER WITHOUT WRITTEN PERMISSION OF VERDE DESIGN, INC.

GENERAL

1. ALL CONSTRUCTION SHALL COMPLY WITH THE PROVISIONS OF THE 2013 CALIFORNIA BUILDING CODE (CBC), TITLE 24, PART 2, VOLUMES 1-2 (2012 INTERNATIONAL BUILDING CODE (IBC) WITH 2013 CALIFORNIA AMENDMENTS, INCLUDING SECTIONS AND 'A' CHAPTERS PERTAINING TO DSA-SS).

2. ALL DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE STRUCTURAL ENGINEER FOR DIRECTION PRIOR TO PROCEEDING.

3. DETAILS OF CONSTRUCTION ARE TYPICAL, UNLESS NOTED OTHERWISE, AND SHALL APPLY AT ALL LOCATIONS OF SIMILAR CONSTRUCTION. TYPICAL DETAILS ARE NOT CUT AT EVERY APPLICABLE LOCATION ON THE PLANS.

4. DO NOT SCALE DRAWINGS FOR DIMENSIONAL INFORMATION.

5. SHORING, TEMPORARY BRACING AND OTHER METHODS AND MEANS OF CONSTRUCTION IS THE RESPONSIBILITY OF THE CONTRACTOR, AND IS NOT INCLUDED IN THE SCOPE OF THE STRUCTURAL DRAWINGS.

6. THE FOLLOWING NOTES ARE FOR GENERAL MATERIAL GRADES AND PROCEDURES. SEE SPECIFICATIONS AND REMAINDER OF DRAWINGS FOR COMPLETE REQUIREMENTS. ITEMS NOTED IN PLANS, SECTIONS AND DETAILS TAKE PRECEDENCE OVER GENERAL NOTES.

7. LOADS:
   - A) WIND:
     EXPOSURE C, 110 MPH BASIC WIND SPEED
     DIRECTIONAL PROCEDURE
   - B) SEISMIC:
     BUILDING RISK CATEGORY II
     EQUIVALENT LATERAL FORCE PROCEDURE (ASCE 7-10 SECTION 12.8)
     LATITUDE: 37.9645, LONGITUDE: -122.0734
     SEISMIC DESIGN CATEGORY (SDC) D
     SITE CLASS C
     S_S=1.5, S=0.639; F_a=1.000, F_v=1.500;
     S_{MS}=1.5, S_{M1}=0.959; S_{DS}=1.0, S_{D1}=0.554
     IMPORTANCE FACTOR: I=1.00
     R=1.25 FOR OTHER SELF-SUPPORTING STRUCTURES
     C_S=0.80 (STRENGTH), 0.57 (ALLOWABLE STRESS)
     C_V=0.200 (STRENGTH), 0.143 (ALLOWABLE STRESS).
   - C) LOAD COMBINATIONS FOR DESIGN:
     CONCRETE: PER CBC SECTION 1605A.2 FOR STRENGTH DESIGN.
     FOUNDATIONS: PER CBC SECTION 1605A.3.2 FOR ALLOWABLE STRESS DESIGN.
     ALL OTHERS: PER CBC SECTION 1605A.3.1 FOR ALLOWABLE STRESS DESIGN.

APPLICABLE CODES

1. CALIFORNIA ADMINISTRATIVE CODE (PART 1, TITLE 24): 2013
2. CALIFORNIA BUILDING CODE (PART 2, TITLE 24): 2012 IBC WITH 2013 CA AMENDMENTS
3. CALIFORNIA ELECTRICAL CODE (PART 3, TITLE 24): 2011 NEC WITH 2013 CA AMENDMENTS
4. CALIFORNIA MECHANICAL CODE (PART 4, TITLE 24): 2012 UMC WITH 2013 CA AMENDMENTS
5. CALIFORNIA PLUMBING CODE (PART 5, TITLE 24) 2012 UPC WITH 2013 CA AMENDMENTS
6. CALIFORNIA ENERGY CODE (PART 6, TITLE 24): 2013
7. CALIFORNIA FIRE CODE (PART 9, TITLE 24): 2012 IFC WITH 2013 CA AMENDMENTS
8. CALIFORNIA GREEN BUILDING STANDARDS CODE (PART 11, TITLE 24): 2013
9. CALIFORNIA REFERENCED STANDARDS CODE (PART 12, TITLE 24): 2013
10. PUBLIC SAFETY (TITLE 19), STATE FIRE MARSHAL: 2013

TITLE 24 C.C.R. ACCESSIBILITY STANDARDS:
AMERICAN WITH DISABILITIES ACT (A.D.A.) FEDERAL ACCESSIBILITY STANDARDS

STRUCTURAL DESIGN REFERENCES:
ASCE 7-10, MINIMUM DESIGN LOADS FOR BUILDINGS & OTHER STRUCTURES
AISC MANUAL OF STEEL CONSTRUCTION, 14TH EDITION
AISC SEISMIC DESIGN MANUAL (AISC 341-10, AISC 358-10 + SUPPL. NO. 1)
ACI 318-11, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE

DSA SUPPLEMENTARY CONDITIONS

1. THE FOLLOWING INFORMATION FROM THE 2013 CALIFORNIA ADMINISTRATIVE CODE (CAC), TITLE 24, PART 1, C.C.R., SHALL BE INCLUDED IN THE CONTRACT DOCUMENTS.

2. ALL ADDENDA AS PER CAC SECTION 4-338(b), SHALL BE SIGNED BY ARCHITECT OR ENGINEER IN GENERAL RESPONSIBLE CHARGE AND BY ARCHITECT, STRUCTURAL ENGINEER OR DELEGATED PROFESSIONAL ENGINEER, AND APPROVED BY DSA.

3. ALL CONSTRUCTION CHANGE DOCUMENTS (CCD) AS PER CAC SECTION 4-338(c), MUST BE SIGNED BY ALL OF THE FOLLOWING:
   - A) ARCHITECT OR ENGINEER IN GENERAL RESPONSIBLE CHARGE,
   - B) STRUCTURAL ENGINEER (WHEN APPLICABLE),
   - C) DELEGATED PROFESSIONAL ENGINEER (WHEN APPLICABLE).

4. ALL SUBSTITUTIONS AFFECTING DSA REGULATED ITEMS SHALL BE CONSIDERED AS A CONSTRUCTION CHANGE OR ADDENDA, AND SHALL BE APPROVED BY DSA PRIOR TO FABRICATION AND INSTALLATION (CAC SECTIONS 4-338(b) AND 4-338(c), DSA IR A-6). SUBSTITUTIONS SHALL BE FOR ANY MATERIAL, SYSTEM OR PRODUCT THAT WOULD OTHERWISE BE REGULATED BY DSA.

5. PROJECT INSPECTOR AND TESTING LAB MUST BE EMPLOYED BY THE OWNER AND APPROVED BY ALL OF THE FOLLOWING:
   - A) ARCHITECT OR ENGINEER IN GENERAL RESPONSIBLE CHARGE,
   - B) STRUCTURAL ENGINEER,
   - C) DSA.

6. CONTRACTOR SHALL SUBMIT VERIFIED REPORT PER CAC SECTIONS 4-336 AND 4-343(c).

7. ADMINISTRATION OF CONSTRUCTION PER 2013 CALIFORNIA ADMINISTRATIVE CODE (CAC), TITLE 24, PART 1, C.C.R.
   - A) DUTIES OF ARCHITECT, STRUCTURAL ENGINEER, OR PROFESSIONAL ENGINEER PER CAC SECTIONS 4-333(a) AND 4-341,
   - B) DUTIES OF PROJECT INSPECTOR PER CAC SECTIONS 4-333(b) AND 4-342,
   - C) DUTIES OF CONTRACTOR PER CAC SECTION 4-343,
   - D) VERIFIED REPORTS PER CAC SECTION 4-336.

8. A COPY OF PART 1 THROUGH 5 OF TITLE 24 SHALL BE KEPT AND AVAILABLE IN THE FIELD DURING CONSTRUCTION. PROJECT SHALL COMPLY WITH PARTS 1 THROUGH 6 AND 9 OF TITLE 24.

9. DSA SHALL BE NOTIFIED ON START OF CONSTRUCTION PER CAC SECTION 4-331.

10. SUPERVISION BY DSA PER CAC SECTION 4-334.

11. DSA IS NOT SUBJECT TO ARBITRATION.

12. THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT WORK OF THE ADDITION, ALTERATION, REHABILITATION OR RECONSTRUCTION PROPOSED IS TO BE IN ACCORDANCE WITH CAC SECTION 4-317(c). SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE DSA APPROVED DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS, A CONSTRUCTION CHANGE DOCUMENT, OR A SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED REPAIR WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH REPAIR WORK.

GEOTECHNICAL & FOUNDATIONS

1. GEOTECHNICAL CRITERIA USED FOR FOUNDATION DESIGN:
   - A) GEOTECHNICAL REPORT BY CONSOLIDATED ENGINEERING LABS, SAN RAMON, CA. REPORT NO. 84-03320-A, DATED JULY 2014. GEOTECHNICAL REPORT SHALL BE CONSIDERED PART OF CONSTRUCTION DOCUMENTS. ALL RECOMMENDATIONS DESCRIBED THEREIN SHALL BE IMPLEMENTED IN PROJECT'S CONSTRUCTION, INCLUDING GRADING, STRIPPING OF EXISTING MATERIAL, LOCATION, TYPE AND INSTALLATION OF FILL MATERIAL, AND COMPACTION.
   - B) CONTINUOUS & SPREAD FOOTINGS:
     MINIMUM WIDTH: 18"
     MINIMUM EMBEDMENT BELOW LOWEST ADJACENT FINISHED GRADE: 18"
   - C) ALLOWABLE SOIL PRESSURES USED FOR FOUNDATION DESIGN:
     DEAD LOAD ONLY: 2000 PSF
     DEAD PLUS LIVE LOAD: 3000 PSF
     TOTAL LOAD W/ SEISMIC OR WIND: 4000 PSF
     ALLOWABLE FRICTION COEFFICIENT: 0.35
     ALLOWABLE PASSIVE PRESSURE: 300 PCF PLUS 1/3 INCREASE FOR SHORT-TERM LOADS
     PIER/PILE ALLOWABLE LATERAL PRESSURE: 300 PCF, PLUS 1/3 INCREASE FOR SHORT-TERM LOADS
     IGNORE 3 FT. AT TOP. EFFECTIVE PIER WIDTH: 2 DIAMETERS.
     MINIMUM PIER SPACING: 3 DIAMETERS
   - D) SUBGRADE PREPARATION:
     ENGINEERED FILL AND COMPACTION:
     AT FLATWORK SLABS: EXCAVATE 8" MIN. BELOW FINAL SUBGRADE AT SLABS, BACKFILL AND RECOMPACT WITH ENGINEERED FILL PER GEOTECHNICAL REPORT RECOMMENDATIONS.

CONCRETE

1. ALL CONCRETE WORK SHALL CONFORM TO CHAPTER 19A OF THE 2013 CALIFORNIA BUILDING CODE (CBC) AND 2011 ACI STANDARD 318 AND ASTM C94, SPECIFICATION FOR READY-MIX CONCRETE. CEMENT SHALL BE PORTLAND CEMENT TYPE II AND SHALL COMPLY WITH ASTM C150. CALCIUM CHLORIDE SHALL NOT BE USED. COARSE AND FINE AGGREGATE SHALL COMPLY WITH ASTM C33. CONCRETE MIX DESIGNS SHALL BE SUBMITTED TO AND APPROVED BY TESTING AGENCY PRIOR TO ORDERING CONCRETE.

2. ALL STRUCTURAL CONCRETE MIXES SHALL HAVE MIN. 5 SACKS CEMENT PER CU. YARD AND MAX. WATER-TO-CEMENT RATIO OF 0.40. CONCRETE CONCRETE MIX PROPERTIES SHALL BE AS FOLLOWS:
   - A) SLABS-ON-GRADE & WALLS:
     28-DAY COMP. STRENGTH: 3000 PSI
     MAX. AGGREGATE SIZE: 3/4"
     MAX. SLUMP: 4"
     DENSITY: 150 PCF (NORMAL WEIGHT)
   - B) DRILLED PIERS, FOOTINGS & GRADE BEAMS:
     28-DAY COMP. STRENGTH: 3000 PSI
     MAX. AGGREGATE SIZE: 1-1/2"
     MAX. SLUMP: 4"
     DENSITY: 150 PCF (NORMAL WEIGHT)
   - C) NON-STRUCTURAL CONCRETE WALKS ON GRADE:
     28-DAY COMP. STRENGTH: 2500 PSI
     MAX. AGGREGATE SIZE: 3/4"
     MAX. SLUMP: 5"
     DENSITY: 150 PCF (NORMAL WEIGHT)

3. STEEL REINFORCING BARS SHALL CONFORM TO ASTM A615-40 FOR #4 AND SMALLER BARS, ASTM A615-60 FOR #5 AND LARGER BARS. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185.

4. NON-SHRINK GROUT UNDER STEEL BASE PLATES SHALL HAVE A 7-DAY COMPRESSIVE STRENGTH 5000 PSI MIN. GROUT SHALL BE MASTER BUILDERS "MASTERFLOW 928", SIKA SIKAGROUT 212, OR APPROVED EQUAL. FOLLOW MANUFACTURER'S SURFACE PREPARATION RECOMMENDATIONS.

5. BONDING AGENT SHALL BE CHEMREX CONCRESIVE LIQUID LPL, SIKA ARMATEC, OR APPROVED EQUAL, AND SHALL BE APPLIED PER MANUFACTURER'S RECOMMENDATIONS.

6. CURING COMPOUND SHALL BE APPROVED BY ENGINEER, AND APPLIED PER MANUFACTURER'S RECOMMENDATIONS.

7. CONSTRUCTION JOINTS SHALL BE ROUGHENED TO FULL 1/4" AMPLITUDE WITH BUSH HAMMER OR OTHER APPROVED METHOD. SURFACES SHALL BE CLEANED OF DUST AND DEBRIS IMMEDIATELY PRIOR TO PLACEMENT OF NEWER CONCRETE.

8. REINFORCING STEEL SHALL BE CONTINUOUS WHERE POSSIBLE. SPLICE WITH CONTACT LAP-SPLICES. STAGGER ALL SPLICES. SPLICE LENGTHS SHALL BE 57 BAR-DIAMETERS MINIMUM. WELDED WIRE FABRIC SHALL BE LAPPED TWO (2) FULL SQUARES, BUT NOT LESS THAN 12".

9. EXTEND HORIZONTAL BARS IN FOUNDATIONS AND WALLS INTO INTERSECTING FOUNDATIONS AND WALLS WITH BEND AND 30 BAR DIAMETER EXTENSION, BUT NOT LESS THAN 24" EXTENSION.

10. WELDING OF REINFORCING SHALL NOT BE ALLOWED.

11. UNLESS NOTED OTHERWISE, ANCHOR BOLTS EMBEDDED IN CONCRETE SHALL CONFORM TO ASTM F1554, A307 OR A36, AND SHALL BE ONE OF THE FOLLOWING:
   - MACHINE BOLT WITH STANDARD HEAD AT EMBEDDED END
   - THREADED ROD WITH TIGHTENED DOUBLE-NUT AT EMBEDDED END

12. ANCHOR BOLT PROJECTION SHALL BE ADEQUATE FOR FULL ENGAGEMENT OF PLATES, WASHERS, NUTS, ETC. AND SHALL BE VERIFIED BY CONTRACTOR PRIOR TO PLACEMENT OF CONCRETE OR GROUT. ANCHOR BOLTS SHALL BE FIRMLY SECURED TO FORMS TO PREVENT THEIR MOVEMENT DURING CONCRETE PLACEMENT. WET-SETTING OF ANCHOR BOLTS IS NOT ALLOWED.

13. MAINTAIN THE FOLLOWING MINIMUM CONCRETE COVER FOR REBAR:
   WHERE CONC. IS PLACED AGAINST EARTH = 3"
   WHERE CONCRETE IS FORMED AND EXPOSED TO EARTH OR WEATHER = 2"
   WHERE CONCRETE IS NOT EXPOSED TO EARTH OR WEATHER = 1-1/2"
   SLABS ON GRADE = 3/4"

14. WHERE SIDES OF FOUNDATIONS (FOOTINGS, GRADE BEAMS OR WALLS) ARE CAST AGAINST EARTH WITHOUT FORMS, FOUNDATION SHALL BE WIDENED 1/2" AT EACH SUCH SURFACE.

15. EXCAVATION FOR FOOTINGS BELOW DEPTHS SHOWN ON DRAWINGS SHALL BE BACKFILLED WITH CONCRETE.

16. NOTIFY ENGINEER AND DSA-SS AT LEAST 48 HOURS BEFORE ANY CONCRETE IS TO BE PLACED OR FORMS CLOSED TO ALLOW FOR HIS INSPECTION OF EXCAVATIONS AND REINFORCING PLACEMENT. SEE ALSO SPECIAL INSPECTION REQUIREMENTS.

17. CONTRACTOR SHALL, PRIOR TO EXCAVATION, VERIFY FOOTING CONDITIONS AND FINISH GRADE/PAVING ELEVATIONS AT PERIMETER OF BUILDING. VERIFY THAT FOOTINGS HAVE SPECIFIED MINIMUM DEPTH BELOW ADJACENT GRADE AND THAT FOOTINGS DO NOT "DAYLIGHT" OR OTHERWISE INTERFERE WITH INTENDED EXTERIOR CONDITIONS. NOTIFY ENGINEER IF SUCH INTERFERENCE EXISTS PRIOR TO EXCAVATION.

18. IF LOADING OF CONCRETE ELEMENTS PRIOR TO 28-DAY AGE IS ANTICIPATED, CONTRACTOR SHALL NOTIFY ENGINEER PRIOR TO SUBMITTAL OF CONCRETE MIX DESIGNS IN ORDER TO ALLOW SPECIFYING OF PROVISIONS FOR SUCH. PROVISIONS MAY INCLUDE COMPRESSION TEST CYLINDERS BE FIELD-CURED IN CONDITIONS MATCHING SUBJECT CONCRETE ELEMENTS, PLUS USE OF CEMENT TYPES AND/OR ADMIXTURES IN MIX DESIGNS TO PROVIDE THE REQUIRED COMPRESSIVE STRENGTHS AT ANTICIPATED AGES LESS THAN 28 DAYS. LOADING OF CONCRETE ELEMENTS BEFORE CURING FOR 28 DAYS WILL NOT BE APPROVED WITHOUT THESE PROVISIONS BEING SPECIFIED, AND MET BY CONTRACTOR.

STRUCTURAL STEEL

1. ALL STEEL AND MISC. IRON SHALL BE FABRICATED AND ERECTED IN CONFORMANCE WITH A.I.S.C. SPECIFICATIONS FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS.

2. STEEL MATERIAL SHALL BE AS FOLLOWS:
   SHAPES AND PLATES: ASTM A36 UNLESS NOTED OTHERWISE
   RECTANGULAR TUBES (TS OR HSS): ASTM A500 GRADE B, F_y=46 KSI
   ROUND TUBES (PIPES): ASTM A53 GRADE B, F_y=35 KSI.
   HEADED STUDS: ASTM A108-58T
   MACHINE BOLTS (M.B.): ASTM A307
   ANCHOR BOLTS/RODS (A.B.): ASTM F1554, A307 OR A36
   THREADED RODS: ASTM A307 OR A36 (MAY BE THREADED FOR ENTIRE LENGTH)
   WELDING ELECTRODES: E70XX

3. UNLESS NOTED OTHERWISE, ANCHOR BOLTS, MACHINE BOLTS AND THREADED ANCHOR RODS THROUGH STEEL AND EMBEDDED IN CONCRETE SHALL CONFORM TO ASTM F1557, A307 OR A36. ANCHOR BOLTS/RODS SHALL HAVE A STANDARD BOLT HEAD OR TIGHTENED DOUBLE NUTS AT EMBEDDED END. THREADED RODS SHALL HAVE TIGHTENED DOUBLE NUTS AT END. J-BOLT ANCHOR BOLTS ARE NOT ALLOWED. ANCHOR BOLT PROJECTION SHALL BE ADEQUATE FOR FULL ENGAGEMENT OF PLATES, WASHERS, NUTS, ETC. AND SHALL BE VERIFIED BY CONTRACTOR PRIOR TO PLACEMENT OF CONCRETE OR GROUT.

4. ALL WELDING ON STRUCTURAL STEEL SHALL CONFORM WITH AWS D1.1 CODE AND SHALL BE PRE-QUALIFIED WELDS CONFORMING TO AWS D1.1. UNLESS SPECIFICALLY INDICATED AS FIELD WELDING, ALL WELDS MAY BE PERFORMED IN SHOP OR FIELD.

5. HEADED STUDS SHALL BE WELDED WITH AUTOMATICALLY TIMED STUD WELDING EQUIPMENT. STUDS SHALL NOT BE FILLET- OR BUTT-WELDED UNLESS SPECIFICALLY SHOWN AS SUCH ON DETAILS.

6. ALL COMPLETE AND FULL PENETRATION GROOVE WELDS (DESIGNATED BY "C.P." OR "F.P.") SHALL USE BACK-UP PLATES UNLESS NOTED OTHERWISE.

7. WELDING PROCEDURE SPECIFICATIONS SHALL BE SUBMITTED TO THE ARCHITECT AND THE TEST/INSPECTION LAB FOR REVIEW AND APPROVAL PRIOR TO START OF FABRICATION.

8. MINIMUM SPACING OF ALL BOLTS, 7/8"ø AND SMALLER IN STEEL SHALL BE 3" o.c. AND THE MINIMUM EDGE DISTANCE FROM CENTERLINE OF HOLE TO EDGE OF PLATE OR MEMBER SHALL BE 1-1/2", UNLESS NOTED OTHERWISE ON DRAWINGS. WHERE BOLTS ARE INSTALLED THROUGH FLANGES OF "W" OR SIMILAR SHAPES, THE BOLT GAGE SHALL BE AS RECOMMENDED BY AISC.

9. HOLES FOR BOLTS IN STEEL SHALL BE 1/16" MAXIMUM LARGER IN DIAMETER THAN BOLTS. HOLES FOR ANCHOR BOLTS SHALL NOT BE MORE THAN 5/16" LARGER FOR A.B.'S UP TO 1"ø, AND NOT MORE THAN 1/2" LARGER FOR A.B.'S OVER 1"ø. ALL HOLES SHALL BE DRILLED OR PUNCHED. BURNING OF HOLES IS NOT ALLOWED, WHETHER IN FIELD OR SHOP.

10. HIGH-STRENGTH BOLTING SHALL COMPLY WITH THE REQUIREMENTS OF THE "SPECIFICATION FOR STRUCTURAL JOINTS USING A325 OR A490 BOLTS", LATEST EDITION.

11. ALL STRUCTURAL STEEL IN EXTERIOR SPACES OR EXPOSED TO VIEW IN INTERIOR SPACES SHALL BE PAINTED WITH TWO (2) COATS OF ALKYD RED OXIDE PRIMER, COMPLYING WITH SSPC-PAINT 25 OR U.S. FEDERAL SPEC TT-P-645, WITH MIN. DRY THICKNESS OF 2 MILS. SEE ARCHITECTURAL SPECS FOR FINISH PAINTING. STRUCTURAL STEEL IN ENCLOSED SPACES AND NOT EXPOSED TO WEATHER NEED NOT BE PAINTED OR PRIMED UNLESS NOTED OTHERWISE. STEEL TO BE EMBEDDED IN CONCRETE SHALL NOT BE PAINTED.

12. ALL NON-PAINTED STEEL FASTENERS EXPOSED TO WEATHER OR IN UNENCLOSED SPACES SHALL BE HOT-DIPPED GALVANIZED, UNLESS NOTED OTHERWISE.

13. ALL STRUCTURAL STEEL SPECIFIED ON DRAWINGS TO BE HOT-DIPPED GALVANIZED SHALL BE TOUCHED UP AT FIELD-WELDED CONNECTIONS, FIELD-DRILLED HOLES, OR FIELD-CUT EDGES WITH A HIGH-ZINC DUST-CONTENT PAINT.

STRUCTURAL ABBREVIATIONS

A.B.	ANCHOR BOLT	I.D.	INSIDE DIAMETER
ADJ	ADJACENT	IN	INCH
APPROX	APPROXIMATE	INT	INTERIOR
ARCH	ARCHITECTURAL		
		LBS	POUNDS
BLDG	BUILDING		
BLKG	BLOCKING	KSI	KIPS PER SQ. IN.
B.N.	BOUNDARY NAILING		
BOT	BOTTOM	MAX	MAXIMUM
BRG	BEARING	M.B.	MACHINE BOLT
		MECH	MECHANICAL
C.B.	CARRIAGE BOLT	MFGR	MANUFACTURER
CJ	CONTROL JOINT OR CONSTRUCTION JOINT	MIN	MINIMUM
		MISC	MISCELLANEOUS
CL	CENTERLINE		
CLG	CEILING	NTS	NOT TO SCALE
CMU	CONCRETE MASONRY UNIT		
COL	COLUMN	O.C.	ON CENTER
CONC	CONCRETE	O.D.	OUTSIDE DIAMETER
CONT	CONTINUOUS	OPP	OPPOSITE
C.P.	COMPLETE PENETRATION		
CTRD	CENTERED	PL	STEEL PLATE
		P.P.	PARTIAL PENETRATION
DBL	DOUBLE	PLYWD	PLYWOOD
DIA OR ø	DIAMETER	PSF	POUNDS PER SQ. FT.
DIAG	DIAGONAL	PSI	POUNDS PER SQ. IN.
DO	DITTO		
DWG	DRAWING	RAD	RADIUS
		REINF	REINFORCING
EA	EACH	REQD	REQUIRED
E.F.	EACH FACE	REV	REVISION
ELEC	ELECTRICAL	R.O.	ROUGH OPENING
ELEV	ELEVATION	RWD	REDWOOD
E.N.	EDGE NAILING		
EQ	EQUAL	S.A.D	SEE ARCH'L DRAWINGS
E.W.	EACH WAY	S.F.	SQUARE FEET
EXIST OR <E>	EXISTING	SIM	SIMILAR
EXTER	EXTERIOR	SPEC	SPECIFICATION
		SQ	SQUARE
F.D.	FLOOR DRAIN	STD	STANDARD
FHWS	FLAT HEAD WOOD SCREW	STGRD	STAGGERED
FIN	FINISH	STIFF	STIFFENER
F.O.B.	FACE OF BLOCK	SYM	SYMMETRICAL
F.O.C.	FACE OF CONCRETE		
F.O.F.	FACE OF FINISH	THRD	THREADED
F.O.S.	FACE OF STUD	T.O.C.	TOP OF CONCRETE
F.P.	FULL PENETRATION	T.O.F.	TOP OF FRAMING
F.S.	FAR SIDE	TS	TUBE STEEL
FT	FOOT OR FEET	TYP	TYPICAL
FTG	FOOTING		
		U.N.O.	UNLESS NOTED OTHERWISE
GA	GAGE		
GALV	GALVANIZED	VERT	VERTICAL
G.I.	GALVANIZED IRON		
GLB	GLUE-LAMINATED BEAM	W/	WITH
GYP.BD.	GYPSUM BOARD	W/O	WITHOUT
		WT	WEIGHT OR STEEL WT SECTION
HDR	HEADER	WWF	WELDED WIRE FABRIC
HORIZ	HORIZONTAL		

TESTING & SPECIAL INSPECTIONS - GENERAL REQMTS.

1. GENERAL
   - A) REFER TO SHEET SCHEDULE BELOW FOR SPECIFIC TESTING AND SPECIAL INSPECTION REQUIREMENTS.
   - B) ALL TESTING AND SPECIAL INSPECTIONS SHALL CONFORM TO APPLICABLE REQUIREMENTS OF CHAPTER 17A OF THE 2013 CALIFORNIA BUILDING CODE (CBC).
   - C) TEST AND INSPECTION LAB SHALL BE PAID FOR BY THE SCHOOL DISTRICT.
   - D) COPIES OF ALL REPORTS SHALL BE SUBMITTED TO ARCHITECT, SEOR AND DSA-SS.

2. CONCRETE FOUNDATIONS, WALLS AND SLABS ON GRADE:
   - A) NOTIFY ARCHITECT AND SEOR 24 HOURS BEFORE CONCRETE OR SHOTCRETE IS TO BE PLACED OR FORMS CLOSED TO ALLOW FOR INSPECTION OF EXCAVATIONS. FORMS AND REINFORCING PLACEMENT.
   - B) SEE ITEM 6 BELOW FOR INSPECTIONS BY GEOTECHNICAL ENGINEER.

3. EXPANSION ANCHORS IN CONCRETE AND CONCRETE:
   - A) ALL ANCHOR SYSTEMS USED SHALL HAVE ICC-ES APPROVAL.
   - B) ALL ANCHOR INSTALLATIONS REQUIRE SPECIAL INSPECTION AND TESTING; SEE SCHEDULE BELOW S1.2 FOR SPECIFIC REQUIREMENTS.

4. IDENTIFICATION OF STRUCTURAL STEEL:
   - A) WHETHER BEING WELDED OR NOT, ALL STEEL MUST BE IDENTIFIED PRIOR TO FABRICATION. WHERE STEEL IS NOT PROPERLY IDENTIFIED, MEASURES REQUIRED TO GAIN ACCEPTANCE BY DSA FOR USE WILL BE BACK-CHARGED TO THE CONTRACTOR.
   - B) TESTING LAB SHALL TEST WELDS AS THEY DEEM NECESSARY TO ENSURE ADEQUACY OF WELDS AND CONFORMANCE TO THE DRAWINGS AND SPECIFICATIONS.
   - C) SEE SCHEDULE BELOW FOR SPECIFIC STEEL IDENTIFICATION REQUIREMENTS.

5. ADDITIONAL INSPECTIONS BY STRUCTURAL ENGINEER:
   ARCHITECT AND ENGINEER SHALL BE NOTIFIED AT LEAST 48 HOURS PRIOR TO THE FOLLOWING TO ALLOW FOR INSPECTION OF THE RESPECTIVE WORK PRIOR TO ENCLOSING IN FINISHES:
   - A) AT SUBSTANTIAL COMPLETION OF ANY AREA OF FOUNDATION WORK, PRIOR TO CLOSING OF FORMS OR PLACEMENT OF CONCRETE.
   - B) AT SUBSTANTIAL COMPLETION OF ANY AREA OF STRUCTURAL STEEL FRAMING.

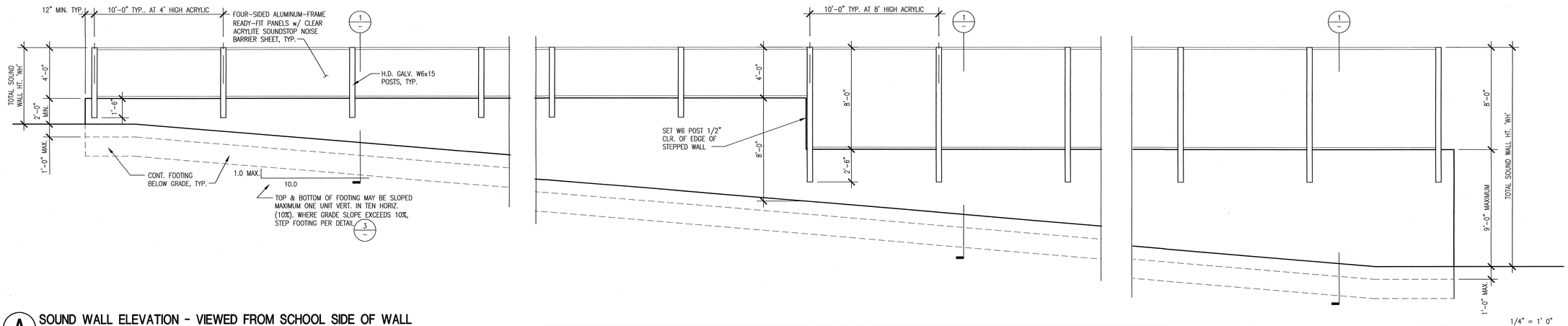
6. INSPECTIONS BY GEOTECHNICAL ENGINEER:
   - A) REFER TO GEOTECHNICAL ENGINEER'S REPORT FOR INSPECTION AND TESTING REQUIREMENTS, INCLUDING:
     * SITE PREPARATION
     * ENGINEERED FILL
     * EXCAVATIONS & BACKFILL
     * COMPACTION
     * EXCAVATIONS FOR CAST-IN-DRILLED-HOLE PIER FOUNDATIONS.

TESTING & SPECIAL INSPECTIONS SCHEDULE

GEOTECHNICAL - SOILS		
VERIFICATION, INSPECTION AND TESTING	TYPE	CODE REFERENCES & NOTES
1. VERIFY MATERIALS BELOW SHALLOW FOUNDATION ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	P	BY GEOTECHNICAL ENGINEER.
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	P	BY GEOTECHNICAL ENGINEER.
3. PERFORM CLASSIFICATION AND QUALIFICATION TESTING OF COMPACTED FILL MATERIALS.	T	BY TESTING LAB AND UNDER THE SUPERVISION OF THE GEOTECHNICAL ENGINEER.
4. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	C	BY GEOTECHNICAL ENGINEER.
5. PRIOR TO PLACEMENT OF COMPACTED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.	P	BY GEOTECHNICAL ENGINEER.
6. TEST COMPACTION OF COMPACTED FILL.	T	BY TESTING LAB AND UNDER THE SUPERVISION OF THE GEOTECHNICAL ENGINEER.

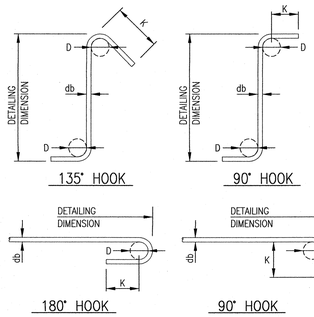
CONCRETE		
VERIFICATION, INSPECTION AND TESTING	TYPE	CODE REFERENCES & NOTES
1. INSPECT REINFORCING STEEL AND PLACEMENT.	P	BY PROJECT INSPECTOR OR BY SPECIAL INSPECTOR WITH DSA APPROVAL. ACI 318: 3.5, 7.1-7.7. CBC: 1913A.4.
4. INSPECT BOLTS TO BE INSTALLED IN CONCRETE PRIOR TO AND DURING PLACEMENT OF CONCRETE.	C	BY PROJECT INSPECTOR OR BY SPECIAL INSPECTOR WITH DSA APPROVAL. ACI 318: 8.1.3, 21.2.8. CBC: 1911A.5, 1912A.1.
5. INSPECT INSTALLATION OF POST-INSTALLED ANCHORS IN HARDENED CONCRETE.	P	BY PROJECT INSPECTOR. ACI 318: 3.8.6, 8.1.3, 21.2.8. CBC: 1912A.1.
6. TEST POST-INSTALLED ANCHORS IN CONCRETE.	T	BY TESTING LAB. CBC: 916.1.11.
7. VERIFY USE OF REQUIRED CONCRETE DESIGN MIX.	P	BY BATCH-PLANT SPECIAL INSPECTOR AND PROJECT INSPECTOR. ACI 318: CH. 4, 5.2-5.4. CBC: 1904A.2.2, 1913A.2, 1913A.3.
8. INSPECT BATCHING OF CONCRETE.	C	BY BATCH-PLANT SPECIAL INSPECTOR. CBC: 1704A.4.2 (SEE 1704A.4.3, OPTION 2 FOR WAIVER PER DESIGN PARAMETERS).
9. INSPECT PLACEMENT OF FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF CONCRETE MEMBER BEING FORMED.	P	BY PROJECT INSPECTOR OR BY SPECIAL INSPECTOR WITH DSA APPROVAL. ACI 318: 6.1.1.
6. AT THE TIME FRESH CONCRETE IS SAMPLED TO FABRICATE SPECIMENS FOR STRENGTH TEST, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	C T	BY TESTING LAB. ACI 318: 5.6, 5.8. CBC: 1904A.2.2, 1913A.2, 1913A.3.
10. TEST CONCRETE (COMPRESSION).	T	BY TESTING LAB. ACI 318: CH. 16. CBC: 1905A.6.
8. TEST SHOTCRETE (COMPRESSION).	T	BY TESTING LAB. CBC: 1913.5, 1913.10 & 1916.1.9.
7. INSPECTION OF CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	C	BY PROJECT INSPECTOR OR BY SPECIAL INSPECTOR WITH DSA APPROVAL. ACI 318: 5.9, 5.10. ACI: 506. CBC: 1704A.17, 1913A.6, 1913A.7, 1913A.8.
8. INSPECTION FOR MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	P	BY PROJECT INSPECTOR OR BY SPECIAL INSPECTOR WITH DSA APPROVAL. ACI 318: 5.11 - 5.13. CBC: 1913A.9.

STRUTURAL STEEL		
VERIFICATION, INSPECTION AND TESTING	TYPE	CODE REFERENCES & NOTES
3. MATERIAL VERIFICATION OF STRUCTURAL STEEL AND COLD-FORMED STEEL DECK:		
A. FOR STRUCTURAL STEEL, IDENTIFICATION MARKINGS TO CONFORM TO AISC 360.	P	AISC 360 SECTION M5.5.
B. FOR OTHER STEEL, IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS.	P	APPLICABLE ASTM MATER



A SOUND WALL ELEVATION - VIEWED FROM SCHOOL SIDE OF WALL

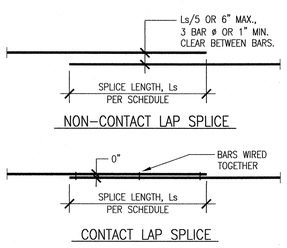
1/4" = 1' 0"



REBAR STANDARD HOOKS			
BAR SIZE	"D" IN	180° HOOKS "K"	90° HOOKS "K"
#4	3"	2-1/2"	8"
#5	3-3/4"	2-1/2"	10"
#6	4-1/2"	3"	1'-0"
#7	5-1/4"	3-1/2"	1'-2"
#8	6	4"	1'-4"

STIRRUP AND TIE HOOKS			
BAR SIZE	"D" IN	135° HOOKS "K"	90° HOOKS "K"
#3	1-1/2"	4"	4"
#4	2"	4-1/2"	4-1/2"
#5	2-1/2"	5-1/2"	6"
#6	4-1/2"	7-3/4"	1'-0"

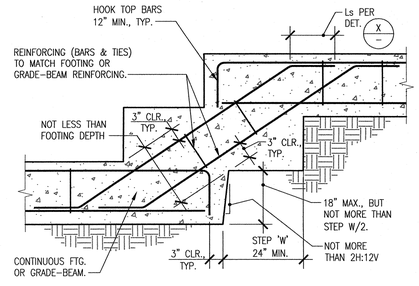
REBAR LAP SPLICE LENGTHS (Ls)		
BAR SIZE	CLASS B SPLICE TYP., U.N.O.	TOP BARS (SEE NOTE 1)
#3	18"	24"
#4	29"	32"
#5	36"	47"
#6	43"	56"
#7	63"	81"
#8	81"	105"



LAP SPLICE NOTES:
1. TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12" OF FRESH CONCRETE CAST BELOW BARS, IN SAME POUR AS BARS (AS IN DEEP BEAM OR FOOTING POURS, ETC.).
2. STAGGER LAPS IN SUCCESIVE PARALLEL BARS IN SLABS AND WALLS A DISTANCE EQUAL TO THE REQUIRED LAP SPLICE LENGTH, BUT NOT LESS THAN 24" (ALONG LENGTH OF BARS).
3. ALL LAP SPLICES SHALL BE CONTACT OR NON-CONTACT TYPE, AS SHOWN.
4. INCREASE SCHEDULED LAP LENGTHS BY 30% WHEN IN LIGHT WEIGHT CONCRETE.

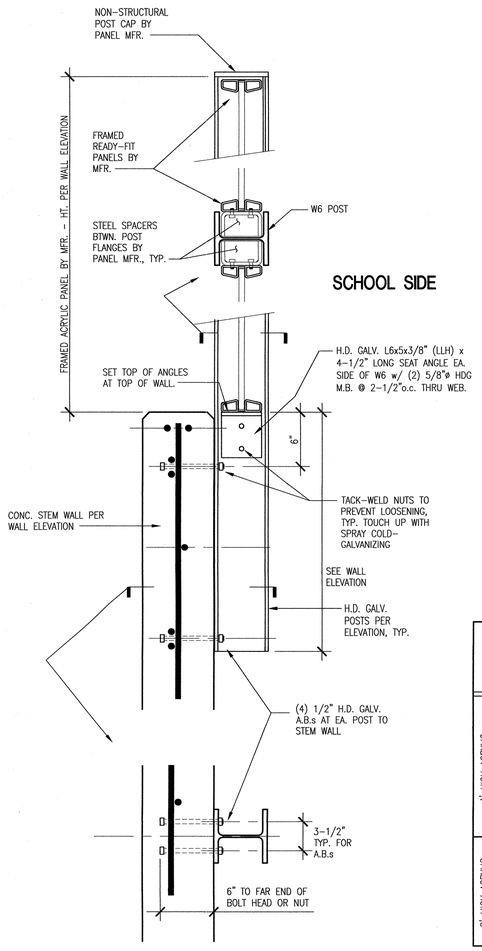
4 TYPICAL REBAR DETAILS

NO SCALE



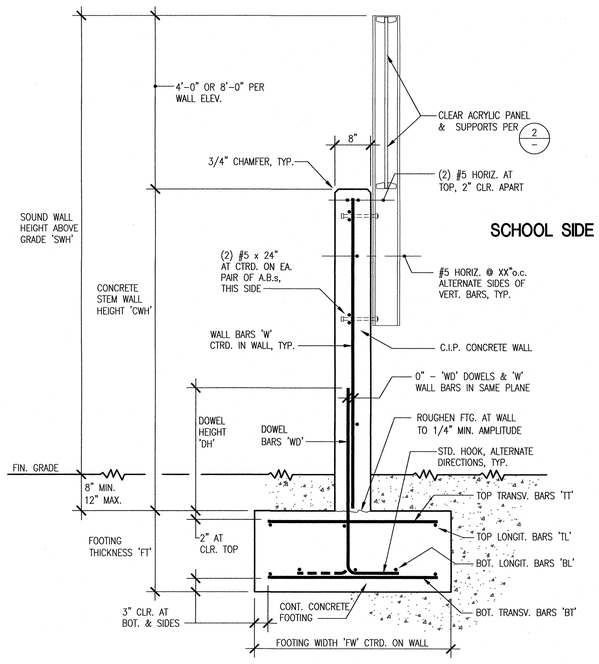
3 TYPICAL FOOTING STEP

NO SCALE



2 ACRYLIC PANEL SUPPORT POSTS

1-1/2" = 1' 0"



SOUND WALL - CONCRETE STEM WALL & FOOTING SCHEDULE

	TOTAL SOUND WALL HEIGHT ABOVE GRADE SWH	MAXIMUM CONC. STEM WALL HEIGHT CWH	CONTINUOUS CONCRETE FOOTING: WIDTH FW	THICKNESS FT	TOP TRANSV. TT BARS	TOP LONG. TL BARS	BOT. TRANSV. BT BARS	BOT. LONG. BL BARS	CONCRETE STEM WALL: WALL DOWELS WD	DOWEL HT. DH	WALL BARS W	NOTES
4' HIGH ACRYLIC	UP TO 6'-0"	3'-0"	3'-0"	1'-4"	#5 @ 36"o.c.	(2) #5	#5 @ 10"o.c.	(2) #5	#5 @ 18"o.c.	EXTEND 'WD' DOWELS TO TOP OF WALL		
	> 6'-0" TO 8'-0"	5'-0"	3'-6"	1'-4"	#5 @ 36"o.c.	(2) #5	#5 @ 10"o.c.	(2) #5	#5 @ 18"o.c.			
	> 8'-0" TO 10'-0"	7'-0"	4'-0"	1'-4"	#5 @ 36"o.c.	(3) #5	#5 @ 10"o.c.	(3) #5	#5 @ 18"o.c.	36"	#5 @ 18"o.c.	AT CONTRACTOR'S OPTION, 'WD' DOWELS MAY BE EXTENDED TO TOP OF WALL WITH NO 'W' WALL BARS.
	> 10'-0" TO 12'-0"	9'-0"	4'-6"	1'-4"	#5 @ 36"o.c.	(3) #5	#5 @ 10"o.c.	(3) #5	#5 @ 18"o.c.	36"	#5 @ 18"o.c.	
8' HIGH ACRYLIC	> 12'-0" TO 14'-0"	7'-0"	5'-6"	1'-8"	#5 @ 32"o.c.	(4) #5	#5 @ 9"o.c.	(4) #5	#5 @ 16"o.c.	36"	#5 @ 18"o.c.	
	> 14'-0" TO 16'-0"	9'-0"	6'-0"	1'-8"	#5 @ 24"o.c.	(4) #5	#5 @ 9"o.c.	(4) #5	#5 @ 12"o.c.	36"	#5 @ 18"o.c.	
	> 16'-0" TO 18'-0"	11'-0"	6'-0"	2'-0"	#5 @ 18"o.c.	(6) #5	#6 @ 10"o.c.	(6) #5	#6 @ 12"o.c.	43"	#5 @ 12"o.c.	

1 SOUND WALL SECTION & SCHEDULE

3/4" = 1' 0"

ALL IDEAS, DESIGNS, ARRANGEMENTS, AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY AND THE PROPERTY OF VERDE DESIGN, INC. AND WERE CREATED, EVOLVED, AND DEVELOPED FOR USE ON AND IN CONNECTION WITH THE SPECIFIED PROJECT. NONE OF SUCH IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL BE USED, REPRODUCED, OR PUBLISHED BY ANY METHOD, IN WHOLE OR IN PART, OR DISCLOSED TO ANY PERSON, FIRM, OR CORPORATION FOR ANY PURPOSE WHATSOEVER WITHOUT WRITTEN PERMISSION OF VERDE DESIGN, INC.

DRAWING NAME: P:\Verde Design\M12-032 College Park HS\Dwgs\Structural\S2_1.dwg

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
2455 The Alameda
Santa Clara, CA 95050
tel: 408.985.7200
fax: 408.985.7260
www.VerdeDesigninc.com

STAMP

CONSULTANT

akh
STRUCTURAL ENGINEERS, INC.
1505 MERIDIAN AVE, SUITE B
SAN JOSE, CALIFORNIA 95125
WWW.AKHSE.COM
PHONE 408.978.1970
FAX 408.267.7919
AKH JOB M12-032

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APPL 01-XXXXXX
FILE XX-XX
AC _____ FLS _____ SS _____
DATE _____
DSA PROJECT TRACKING NO:
XXXX-XX

SHEET TITLE

SOUND WALL ELEVATION & DETAILS

PROJECT NAME

COLLEGE PARK HIGH SCHOOL ATHLETIC FACILITY IMPROVEMENTS

PROJECT ADDRESS

201 VIKING DR
PLEASANT HILL, CA
94523

SUBMITTAL	DATE
50% DD SUBMITTAL	02/07/13
DSA SUBMITTAL	10/17/14

NO.	REVISIONS	DATE

DRAWN BY	CHECKED BY
TDH	TW
DATE ISSUED	SCALE
10/17/14	AS NOTED

PROJ. NO.
1209000-1209

SHEET NO.
S-2.1
OF 26 SHEETS

CONTINUOUS LIGHT LEVEL

EMERGENCY INVERTERS MOUNTED ON POLES F2 & F5
400W EMERGENCY FIXTURES MOUNTED 50' ABG

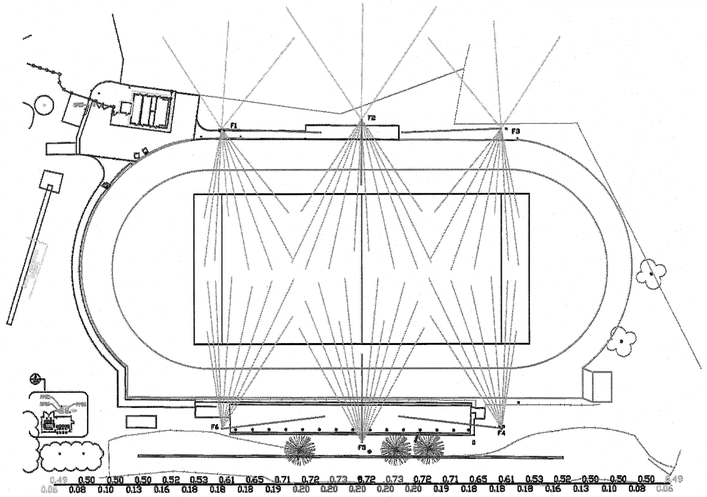
Pole	x-loc	y-loc	height	NARROW	MEDIUM	WIDE	400W	Total	kw
F1	-150	150	80ft	1	6	4		8-3	17.9
F2	0	160	80ft		10	3		10-3	21.1
F3	150	150	80ft	1	6	4		8-3	17.9
F4	150	-170	80ft	2	6			8	13.0
F5	0	-185	80ft	4	6			10	16.3
F6	-150	-170	80ft	2	6			8	13.0
other							6	6	2.7
Total				10	40	11	6	67	101.9

400W
UNIVERSAL SERIES V 400W

WIDE
UNIVERSAL SERIES V 1500W

MEDIUM
UNIVERSAL SERIES V 1500W

NARROW
UNIVERSAL SERIES V 1500W



Spill @ 150'
23 points

	A	B
Average	0.10	0.45
Maximum	0.20	0.73
Minimum	0.06	0.49

A HORIZONTAL FOOTCANDLES
B FOOTCANDLES with meter facing (x,y,z)= 0.0 0.0 5.0

GUARANTEED FOR THE RATED LIFE OF THE LAMP WITHIN +/-10% OF LIGHT LEVEL INDICATED. BASED ON PROPER INSTALLATION, VOLTAGE +/-5%, POLE PLACEMENT AND MOUNTING HEIGHT WITHIN 3 FEET OF SPECIFIED LOCATION AND HEIGHT. POLES TO COMPLY WITH CURRENT AASHTO STANDARDS

INDIVIDUAL POINTS MAY VARY FROM PREDICTIONS. UNIFORMITIES GUARANTEED TO MEET THE IESNA'S RECOMMENDATIONS (UNLESS SHOWN HIGHER DUE TO DESIGN CRITERIA).

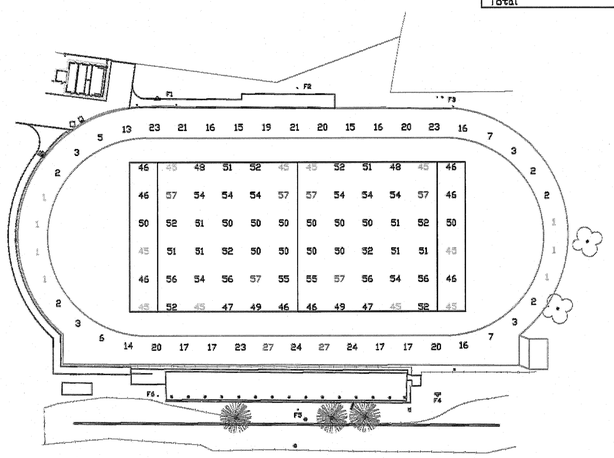
CONTINUOUS LIGHT LEVEL

Pole	x-loc	y-loc	height	NARROW	MEDIUM	WIDE	Total	kw
F1	-150	150	80ft	1	6	1	8	13.0
F2	0	160	80ft		10		10	16.3
F3	150	150	80ft	1	6	1	8	13.0
F4	150	-170	80ft	2	6		8	13.0
F5	0	-185	80ft	4	6		10	16.3
F6	-150	-170	80ft	2	6		8	13.0
Total				10	40	2	52	84.5

WIDE
UNIVERSAL SERIES V 1500W

MEDIUM
UNIVERSAL SERIES V 1500W

NARROW
UNIVERSAL SERIES V 1500W



Track
46 points
HORIZONTAL FOOTCANDLES

Average	52
Maximum	57
Minimum	45
AvgMin	1.12
MaxMin	1.27
Coef Var	0.08
UnifGrad	1.27
Utilance	0.40

Football
72 points at z=3, sp 30ft by 30ft
HORIZONTAL FOOTCANDLES

Average	51
Maximum	57
Minimum	45
AvgMin	1.12
MaxMin	1.27
Coef Var	0.08
UnifGrad	1.27
Utilance	0.40

GUARANTEED FOR THE RATED LIFE OF THE LAMP WITHIN +/-10% OF LIGHT LEVEL INDICATED. BASED ON PROPER INSTALLATION, VOLTAGE +/-5%, POLE PLACEMENT AND MOUNTING HEIGHT WITHIN 3 FEET OF SPECIFIED LOCATION AND HEIGHT. POLES TO COMPLY WITH CURRENT AASHTO STANDARDS

INDIVIDUAL POINTS MAY VARY FROM PREDICTIONS. UNIFORMITIES GUARANTEED TO MEET THE IESNA'S RECOMMENDATIONS (UNLESS SHOWN HIGHER DUE TO DESIGN CRITERIA).

NOTES:

GENERAL

1. POLE STRUCTURE AND FOUNDATION ARE DESIGNED IN ACCORANCE WITH THE LATEST EDITION OF THE CALIFORNIA BUILDING CODE VOLUMES 1 & 2 (PART 2, TITLE 24, CCR).

2. DESIGN WIND VELOCITY = 85 MPH.

FOUNDATION

1. ALL CONCRETE SHALL HAVE MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS. CONCRETE SHALL BE AIR ENTRAINED (6 +/- 1.5%). CONCRETE SHALL HAVE MAXIMUM WATER/CEMENT RATIO OF 0.4. SLUMP OF CONCRETE SHALL BE LIMITED IN ACCORDANCE WITH "THE BUILDING CODE REQUIREMENTS FOR REINFORCED CONRETE", ACI 318, LATEST EDITION. FOUNDATION INSTALLATION SHALL BE IN ACCORDANCE WITH ACI 336, "STANDARD SPECIFICATIONS FOR THE CONSTRUCTION OF DRILLED PIERS", LATEST EDITION.

2. MINIMUM CONCRETE COVER FOR EMBEDDED POLE SHALL BE:
   A. CONCRETE CAST AGAINST AND EXPOSED TO EARTH: 3 " MIN.
   B. EXPOSED TO EARTH BUT PLACED IN FORMS: 2" MIN.
   C. SURFACES EXPOSED TO WEATHER: 1.5" MIN.

3. FOUNDATION DESIGN IS BASED UPON SOIL PARAMETERS OUTLINED IN THE GEOTECHNICAL REPORT BY CONSOLIDATED ENGINEERING LABORATORIES, DATED JULY 7, 2014. WATER TABLE IS REPORTED TO BE BELOW BOTTOM OF FOUNDATION.

4. CONTRACTOR SHALL READ THE SITE-SPECIFIC GEOTECHNICAL REPORT AND CONSULT THE GEOTECHNICAL ENGINEER PRIOR TO CONSTRUCTION.

5. FOUNDATION WAS DESIGNED USING ASSUMED GROUND SLOPE NOT EXCEEDING 7H:1V. CONTRACTOR SHALL CONTACT ENGINEER FOR ANY DEVIATION THEREFROM PRIOR TO CONSTRUCTION.

6. FOUNDATION WAS DESIGNED USING THE FOLLOWING SERVICE LOADS:

   MOMENT: 205.00 K-FT
   SHEAR: 4.00 KIPS
   AXIAL: 4.10 KIPS

POLE STRUCTURE

1. ALL WELDING SHALL CONFORM TO AMERICAN WELDING SOCIETY, AWS D1.1, LATEST EDITION.

2. LONGITUDINAL WELDS FOR ALL POLE SHAFTS SHALL HAVE 60 PERCENT MINIMUM PENETRATION EXCEPT FOR THE FOLLOWING AREAS:

A. LONGITUDINAL SEAM WELDS WITHIN 6 INCHES OF CIRCUMFERENTIAL WELDS SHALL BE FULL PENETRATION GROOVE WELDS.

B. LONGITUDINAL SEAM WELDS ON THE FEMALE SECTION OF SLIP JOINT TYPE SPLICES SHALL BE FULL-PENETRATION GROOVE WELDS FOR A LENGTH EQUAL TO THE MINIMUM SLIP JOINT LENGTH PLUS 6 INCHES.

3. MATERIALS SHALL MEET THE REQUIREMENTS OF:

BOTTOM POLE SHAFT:	ASTM A572 GR. 65
TOP POLE SHAFT:	ASTM A572 GR. 65
ANCHOR BOLTS:	N.A.
MISC STEEL:	ASTM A36
FLAT WASHERS:	ASTM F436
NUTS:	ASTM A563 GR. DH HEAVY HEX
CONNECTING BOLTS:	ASTM A325

4. STRUCTURE SHALL BE HOT-DIP GALVANIZED IN ACCORANCE WITH:

STRUCTURAL STEEL:	ASTM A123
HARDWARE:	ASTM A153

Qualite
SPORTS LIGHTING, LLC.
215 W. MECHANIC ST.
HILLSDALE, MI 49242
800 - 933 - 9741
fax: 517 - 439-1194
www.qualite.com

COLLEGE PARK HIGH SCHOOL

FOOTBALL FIELD LIGHTING
PLEASANT HILL, CA

LACH Engineering Solutions
1405 DOUGLAS AVE.
COLLEYVILLE, TX 76034
(817)416-9999 ph.
(817)796-2802 fax

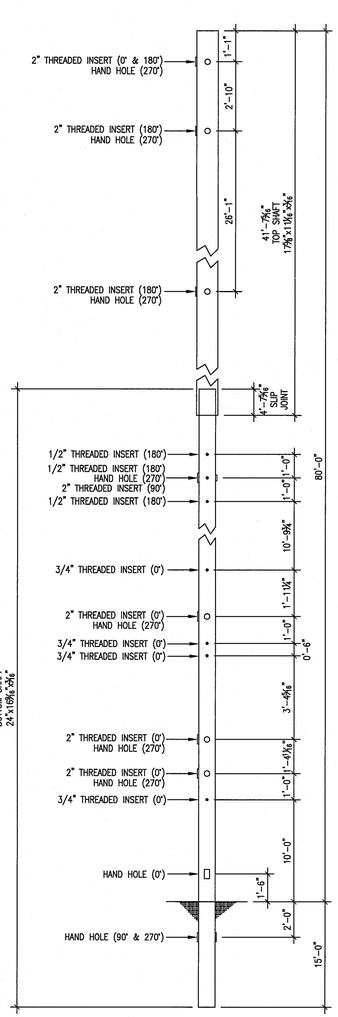
REGISTERED PROFESSIONAL ENGINEER
ANTOINE SAMRA
SE 3954
Exp. 8/31/2015
STRUCTURAL
STATE OF CALIFORNIA

NO.	REVISION/ISSUE	DATE

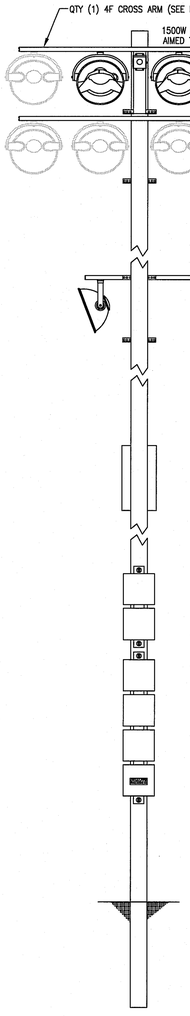
LIGHTING LAYOUT

10/24/2014
NOT TO SCALE

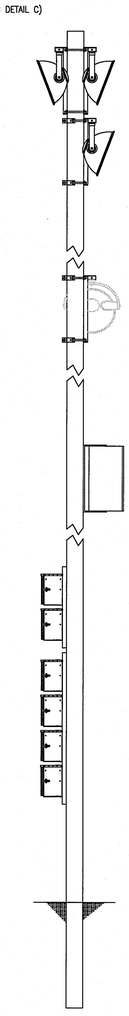
SL0



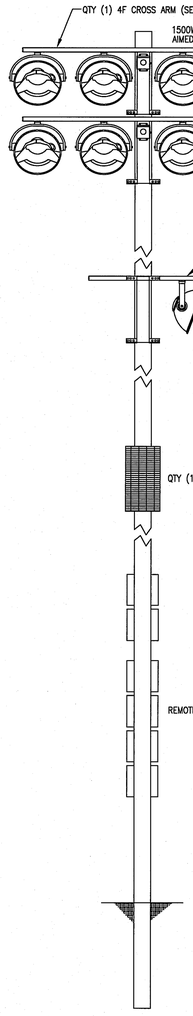
POLE LAYOUT



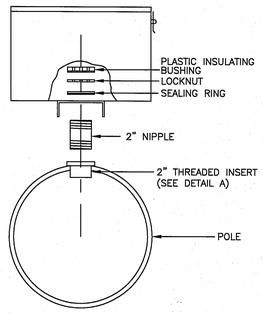
VIEW FROM REAR (0°)
(FACING FOOTBALL FIELD)



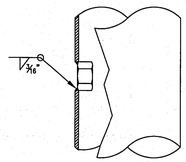
VIEW FROM SIDE (90°)



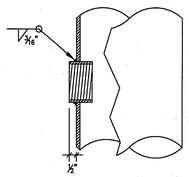
VIEW FROM FRONT (180°)



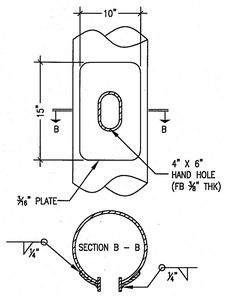
BALLAST BOX ELECTRICAL CONNECTION
TOP VIEW



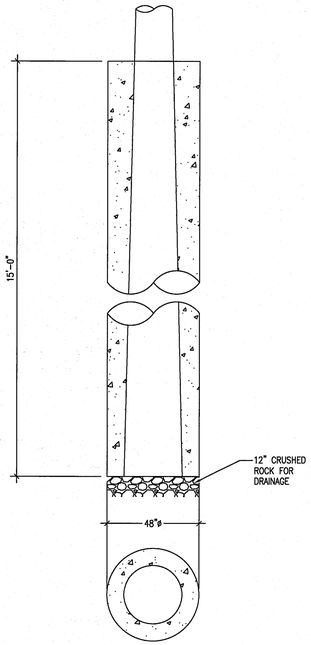
DETAIL B – THREADED INSERTS
¾"–10 OR ½"–13 HH NUTS



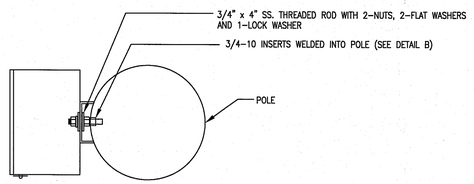
DETAIL A – 2" THREADED INSERTS



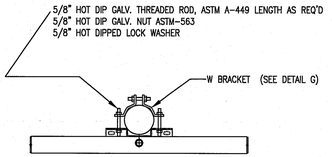
HAND HOLE DETAIL



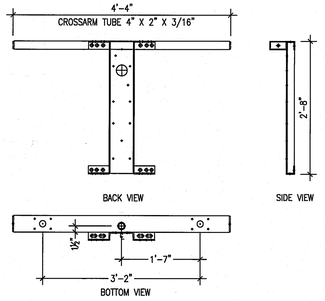
FOUNDATION DETAIL



BALLAST BOX MOUNTING DETAIL
TOP VIEW

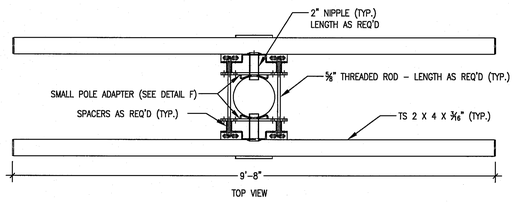


TOP VIEW

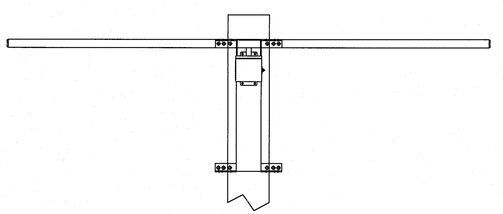


BACK VIEW
SIDE VIEW
BOTTOM VIEW

DETAIL E – 2F CROSS ARM MOUNTING

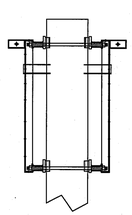


TOP VIEW

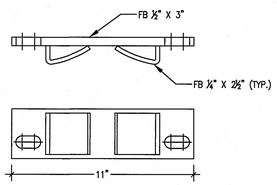


FRONT VIEW

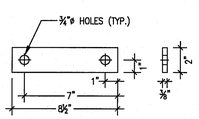
DETAIL C – 4F CROSS ARM BACK–TO–BACK MOUNTING



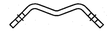
SIDE VIEW



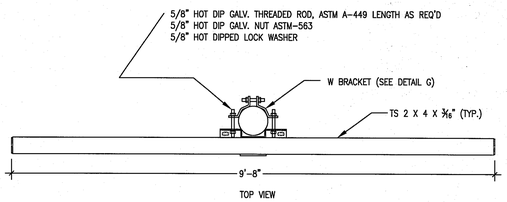
DETAIL F – SMALL POLE ADAPTER



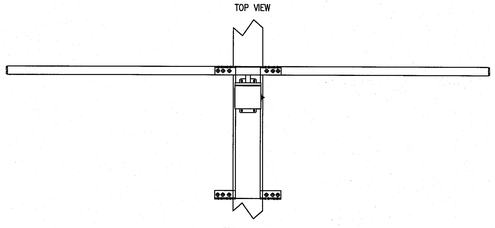
FLAT LAYOUT PRIOR TO BENDING



DETAIL G – W BRACKET

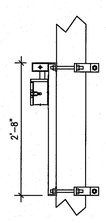


TOP VIEW



FRONT VIEW

DETAIL D – 4F CROSS ARM MOUNTING



SIDE VIEW

Qualite

SPORTS LIGHTING, LLC.

215 W. MECHANIC ST.
HILLSDALE, MI 49242

800 - 933 - 9741
fax: 517 - 439-1194
www.qualite.com

COLLEGE PARK HIGH SCHOOL

FOOTBALL FIELD LIGHTING PLEASANT HILL, CA

LACH Engineering Solutions
1405 DOUGLAS AVE.
COLLEYVILLE, TX 76034
(817)416–9999 ph.
(817)796–2802 fax

REGISTERED PROFESSIONAL ENGINEER
ANTOINE SAMRA
SE 6864
Exp. 3/31/2015
STRUCTURAL
STATE OF CALIFORNIA

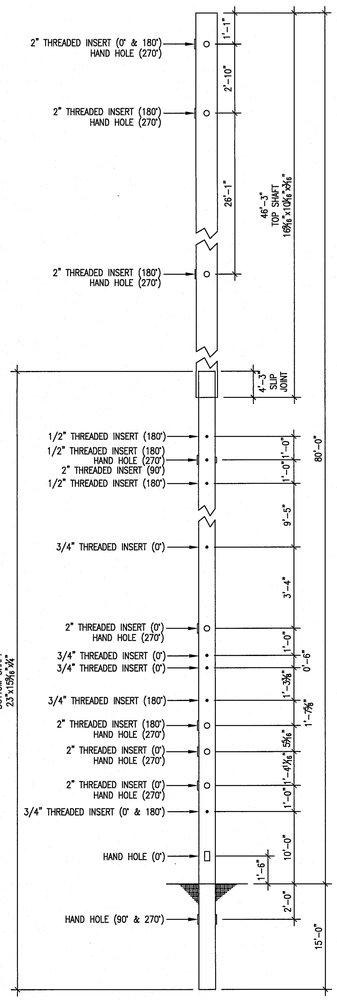
NO.	REVISION/ISSUE	DATE

POLE F1 DETAILS

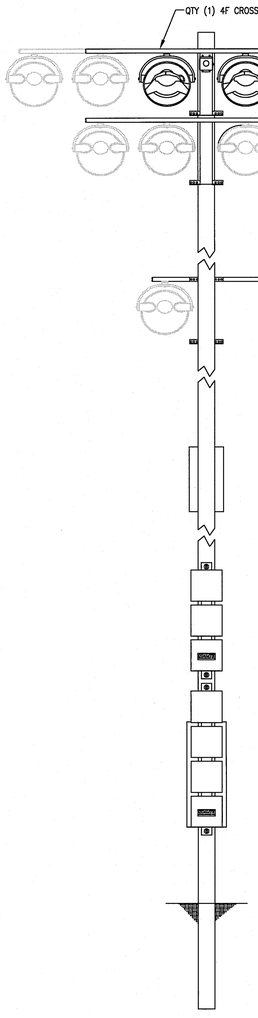
10/24/2014

NOT TO SCALE

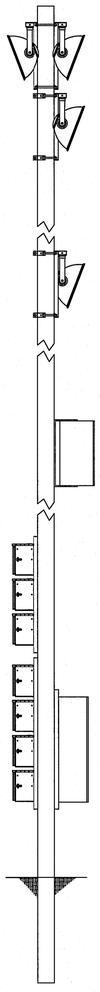
SL1



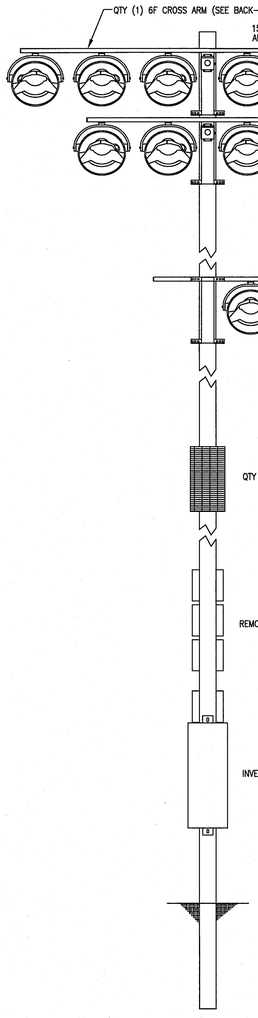
POLE LAYOUT



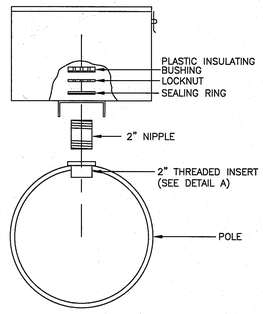
VIEW FROM REAR (0°)
(FACING FOOTBALL FIELD)



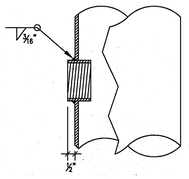
VIEW FROM SIDE (90°)



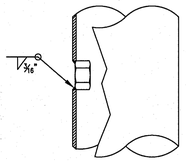
VIEW FROM FRONT (180°)



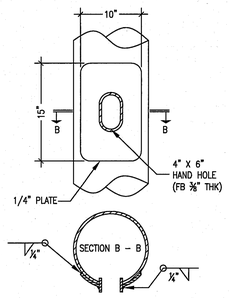
BALLAST BOX ELECTRICAL CONNECTION
TOP VIEW



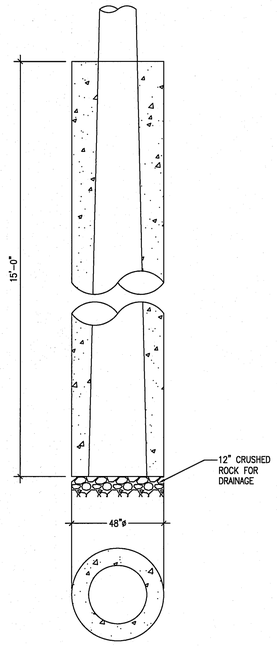
DETAIL A – 2" THREADED INSERTS



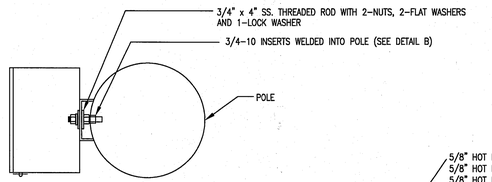
DETAIL B – THREADED INSERTS
¾"–10 OR ½"–13 HH NUTS



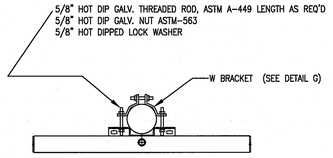
HAND HOLE DETAIL



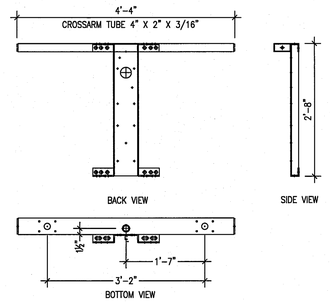
FOUNDATION DETAIL



BALLAST BOX MOUNTING DETAIL
TOP VIEW

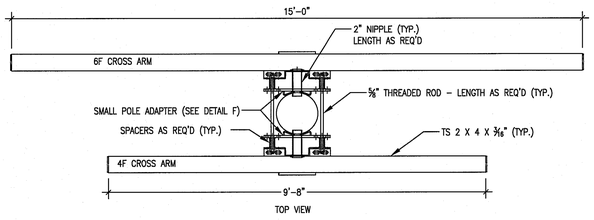


TOP VIEW

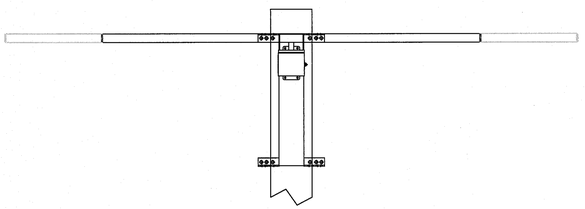


BACK VIEW
SIDE VIEW
BOTTOM VIEW

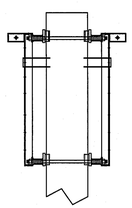
DETAIL E – 2F CROSS ARM MOUNTING



TOP VIEW

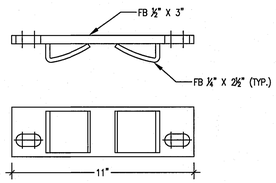


FRONT VIEW

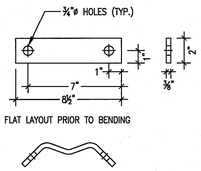


SIDE VIEW

DETAIL C – 6F/4F CROSS ARM BACK–TO–BACK MOUNTING

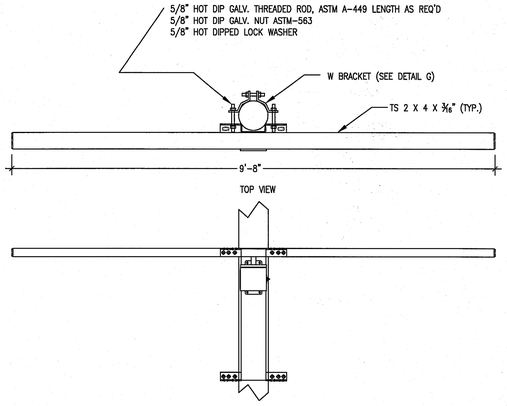


DETAIL F – SMALL POLE ADAPTER



FLAT LAYOUT PRIOR TO BENDING

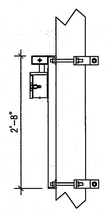
DETAIL G – W BRACKET



TOP VIEW

FRONT VIEW

DETAIL D – 4F CROSS ARM MOUNTING



SIDE VIEW

Qualite
SPORTS LIGHTING, LLC.
215 W. MECHANIC ST.
HILLSDALE, MI 49242
800 - 933 - 9741
fax: 517 - 439-1194
www.qualite.com

COLLEGE PARK HIGH SCHOOL

FOOTBALL FIELD LIGHTING
PLEASANT HILL, CA

LACH Engineering Solutions
1405 DOUGLAS AVE.
COLLEYVILLE, TX 76034
(817)416–9999 ph.
(817)796–2802 fax

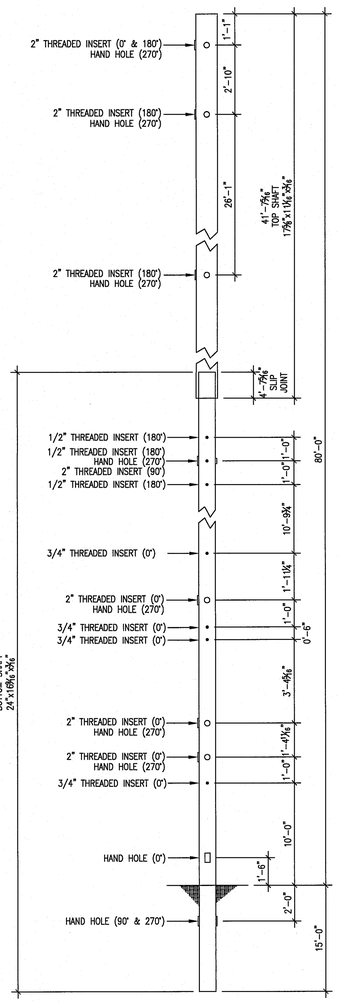
REGISTERED PROFESSIONAL ENGINEER
ANTOINE SAMAA
SE 3884
EXP. 3/31/2015
STRUCTURAL
STATE OF CALIFORNIA

NO.	REVISION/ISSUE	DATE

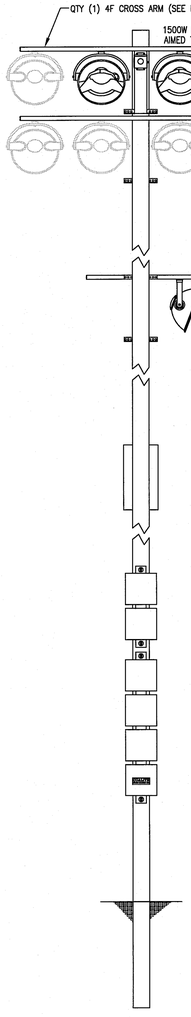
POLE F2 DETAILS

10/24/2014
NOT TO SCALE

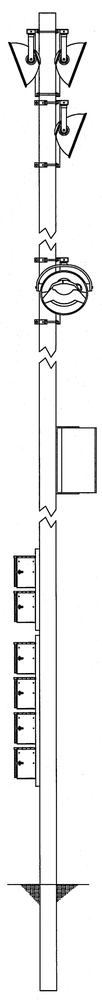
SL2



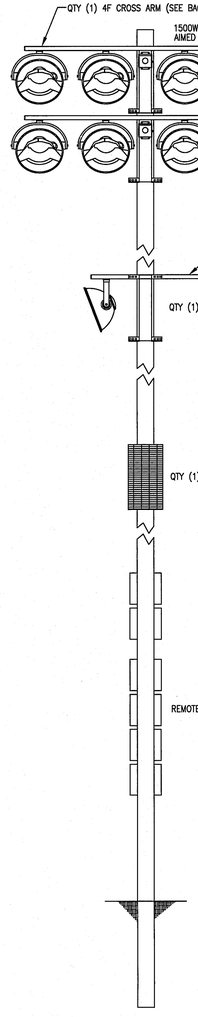
POLE LAYOUT



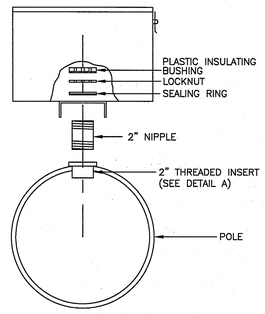
VIEW FROM REAR (0°)
(FACING FOOTBALL FIELD)



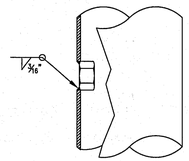
VIEW FROM SIDE (90°)



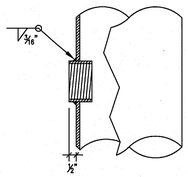
VIEW FROM FRONT (180°)



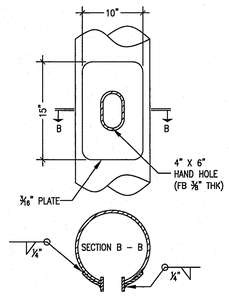
BALLAST BOX ELECTRICAL CONNECTION
TOP VIEW



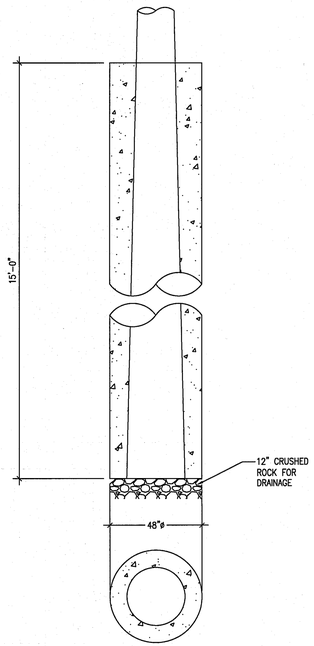
DETAIL B – THREADED INSERTS
¾"–10 OR ½"–13 HH NUTS



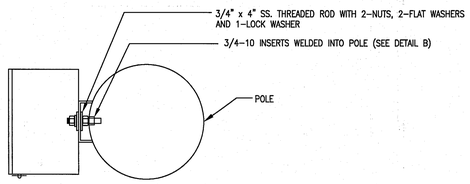
DETAIL A – 2" THREADED INSERTS



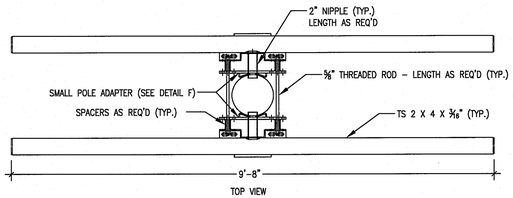
HAND HOLE DETAIL



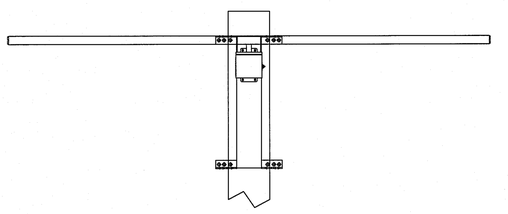
FOUNDATION DETAIL



BALLAST BOX MOUNTING DETAIL
TOP VIEW

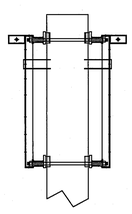


TOP VIEW

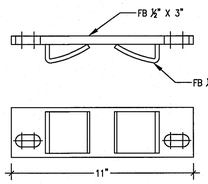


FRONT VIEW

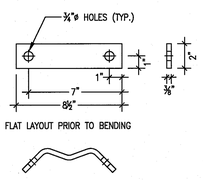
DETAIL C – 4F CROSS ARM BACK–TO–BACK MOUNTING



SIDE VIEW

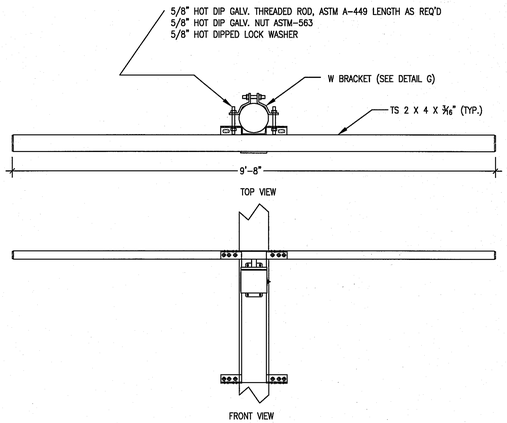


DETAIL F – SMALL POLE ADAPTER



FLAT LAYOUT PRIOR TO BENDING

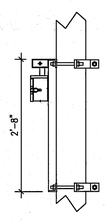
DETAIL G – W BRACKET



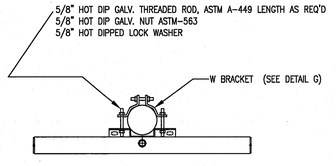
TOP VIEW

FRONT VIEW

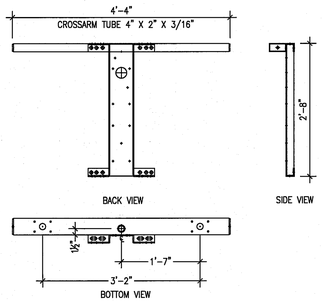
DETAIL D – 4F CROSS ARM MOUNTING



SIDE VIEW



TOP VIEW



BACK VIEW

SIDE VIEW

BOTTOM VIEW

DETAIL E – 2F CROSS ARM MOUNTING

Qualite
SPORTS LIGHTING, LLC.
215 W. MECHANIC ST.
HILLSDALE, MI 49242
800 - 933 - 9741
fax: 517 - 439-1194
www.qualite.com

COLLEGE PARK HIGH SCHOOL

FOOTBALL FIELD LIGHTING
PLEASANT HILL, CA

LACH Engineering Solutions
1405 DOUGLAS AVE.
COLLEYVILLE, TX 76034
(817)416–9999 ph.
(817)796–2802 fax

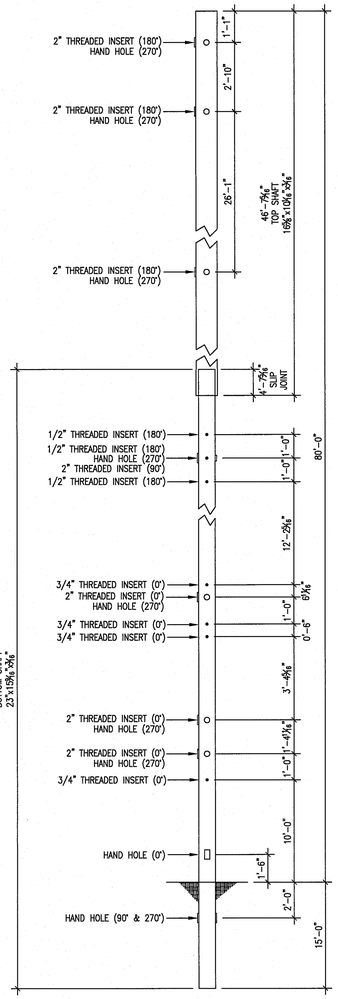
REGISTERED PROFESSIONAL ENGINEER
ANTOINE SAMRA
SE 3654
EXP. 12/31/2015
STRUCTURAL
STATE OF CALIFORNIA

NO.	REVISION/ISSUE	DATE

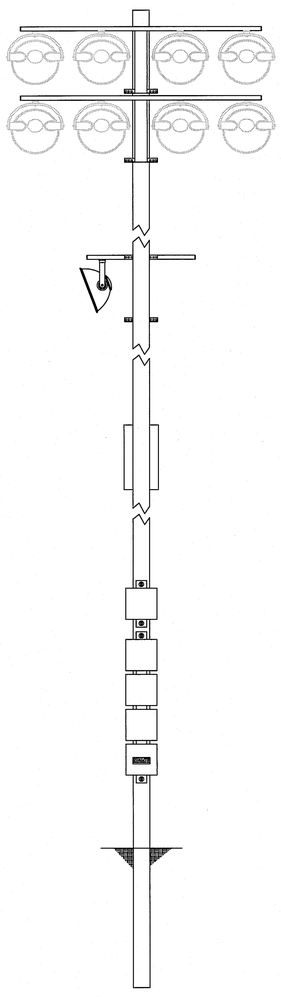
POLE F3 DETAILS

10/24/2014
NOT TO SCALE

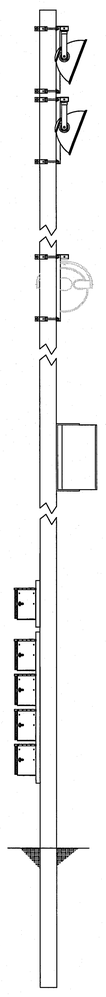
SL3



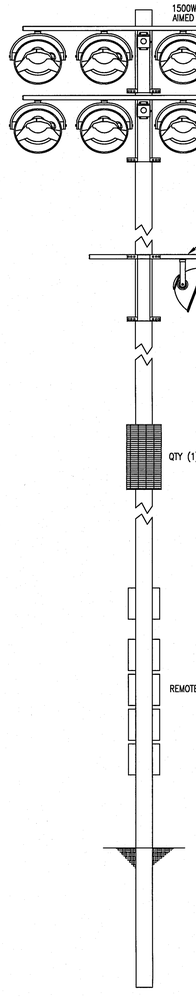
POLE LAYOUT



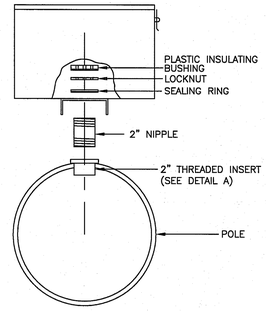
VIEW FROM REAR (0°)
(FACING FOOTBALL FIELD)



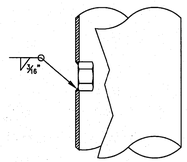
VIEW FROM SIDE (90°)



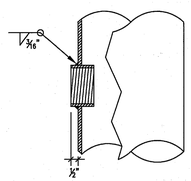
VIEW FROM FRONT (180°)



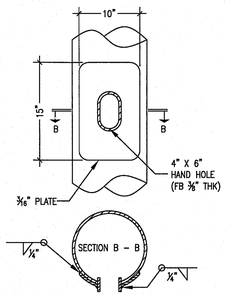
BALLAST BOX ELECTRICAL CONNECTION
TOP VIEW



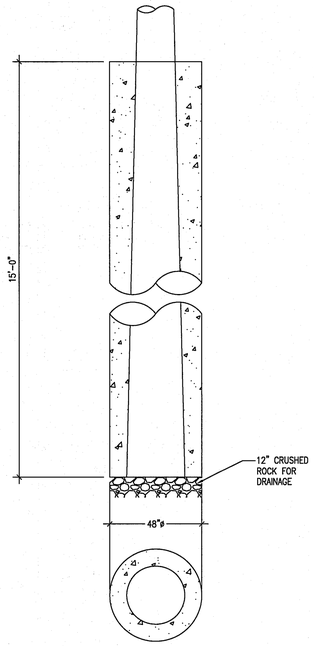
DETAIL B – THREADED INSERTS
¾"–10 OR ½"–13 HH NUTS



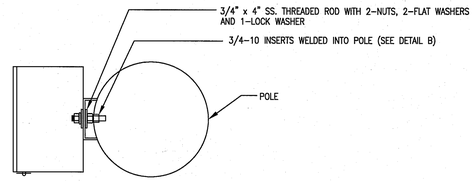
DETAIL A – 2" THREADED INSERTS



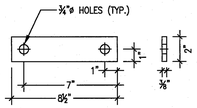
HAND HOLE DETAIL



FOUNDATION DETAIL

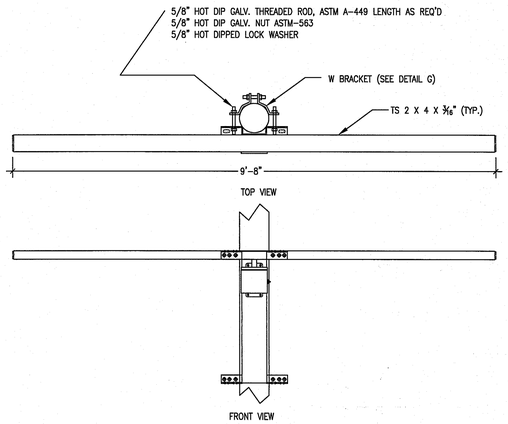


BALLAST BOX MOUNTING DETAIL
TOP VIEW

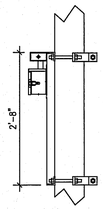


FLAT LAYOUT PRIOR TO BENDING

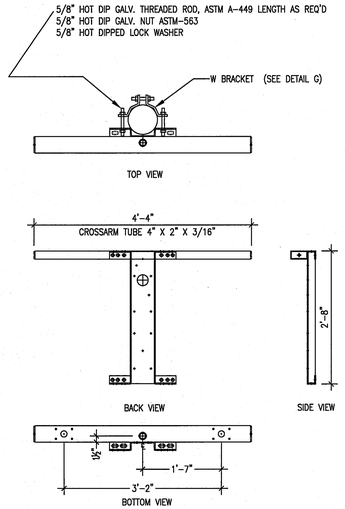
DETAIL G – W BRACKET



DETAIL D – 4F CROSS ARM MOUNTING



SIDE VIEW



DETAIL E – 2F CROSS ARM MOUNTING

Qualite
SPORTS LIGHTING, LLC.

215 W. MECHANIC ST.
HILLSDALE, MI 49242

800 - 933 - 9741
fax: 517 - 439-1194
www.qualite.com

COLLEGE PARK HIGH SCHOOL

FOOTBALL FIELD LIGHTING
PLEASANT HILL, CA

LACH Engineering Solutions
1405 DOUGLAS AVE.
COLLEYVILLE, TX 76034
(817)416–9999 ph.
(817)796–2802 fax

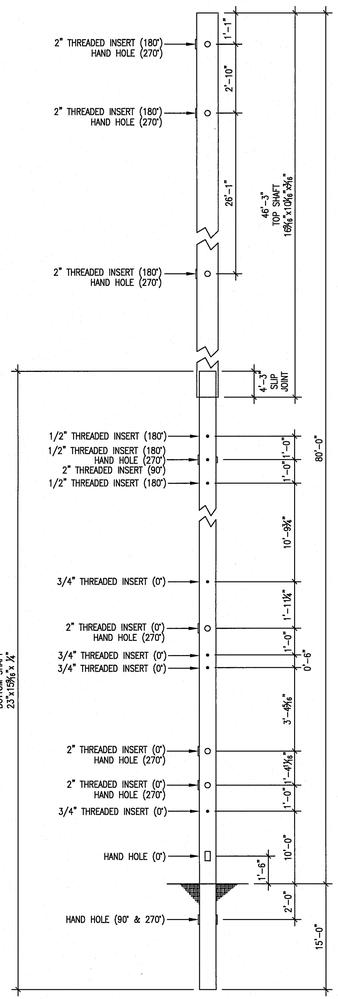
REGISTERED PROFESSIONAL ENGINEER
ANTOINE SAMRA
SE 2654
Exp. 3/31/2015
STRUCTURAL
STATE OF CALIFORNIA

NO.	REVISION/ISSUE	DATE

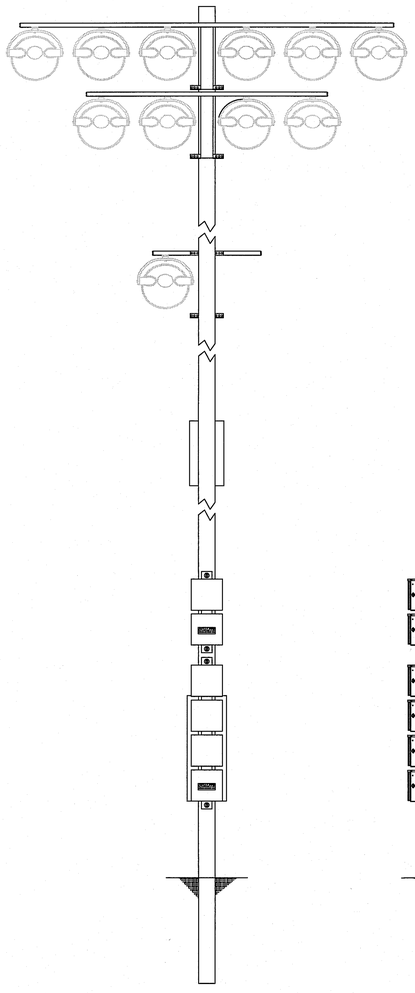
POLE F4 DETAILS

10/24/2014
NOT TO SCALE

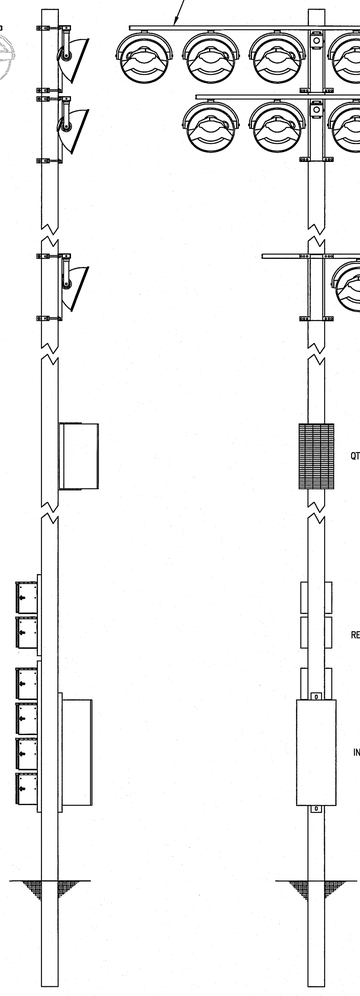
SL4



POLE LAYOUT

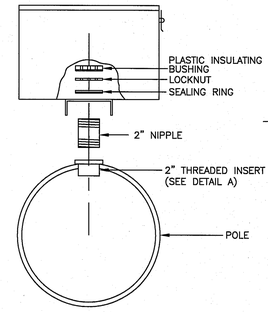


VIEW FROM REAR (0°)
(FACING FOOTBALL FIELD)

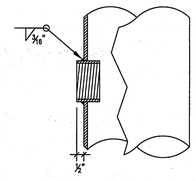


VIEW FROM SIDE (90°)

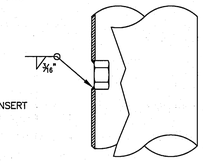
VIEW FROM FRONT (180°)



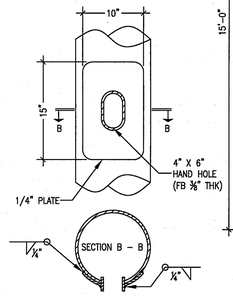
BALLAST BOX ELECTRICAL CONNECTION
TOP VIEW



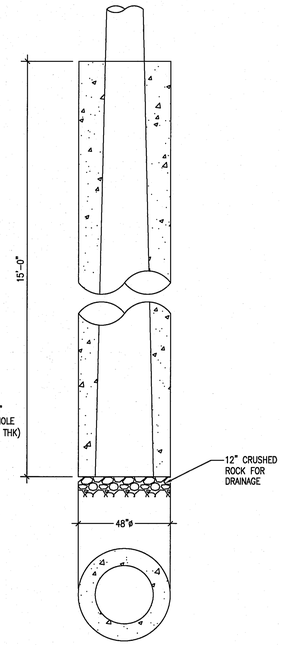
DETAIL A – 2" THREADED INSERTS



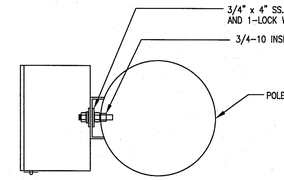
DETAIL B – THREADED INSERTS
¾"–10 OR ½"–13 HH NUTS



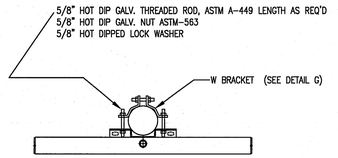
HAND HOLE DETAIL



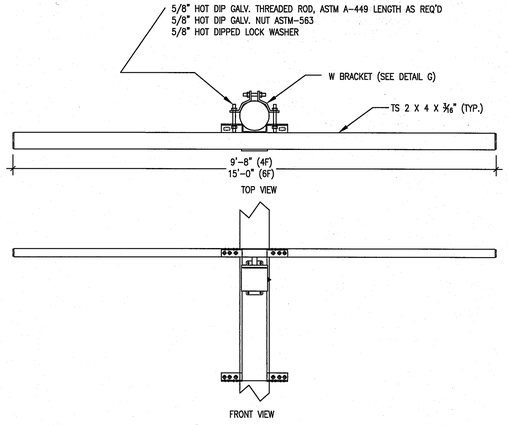
FOUNDATION DETAIL



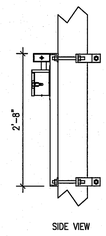
BALLAST BOX MOUNTING DETAIL
TOP VIEW

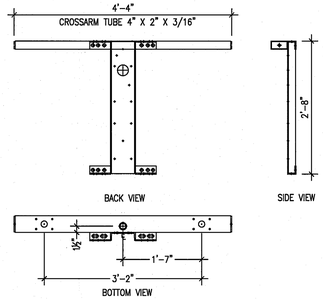


TOP VIEW

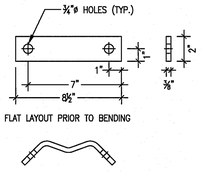


DETAIL D – 6F/4F CROSS ARM MOUNTING





DETAIL E – 2F CROSS ARM MOUNTING



FLAT LAYOUT PRIOR TO BENDING

DETAIL G – W BRACKET

Qualite
SPORTS LIGHTING, LLC.
215 W. MECHANIC ST.
HILLSDALE, MI 49242
800 - 933 - 9741
fax: 517 - 439-1194
www.qualite.com

COLLEGE PARK HIGH SCHOOL

FOOTBALL FIELD LIGHTING
PLEASANT HILL, CA

LACH
Engineering Solutions
1405 DOUGLAS AVE.
COLLEYVILLE, TX 76034
(817)416–9999 ph.
(817)796–2802 fax

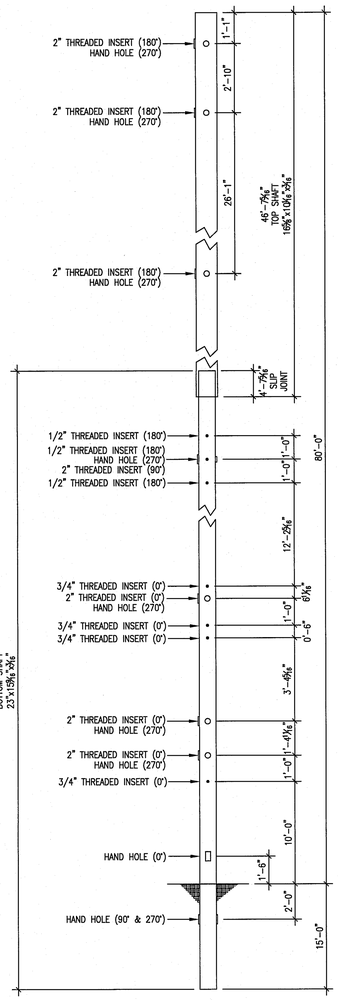
REGISTERED PROFESSIONAL ENGINEER
ANTOINE SAMRA
SE 3954
Exp. 3/31/2015
STRUCTURAL
STATE OF CALIFORNIA

NO.	REVISION/ISSUE	DATE

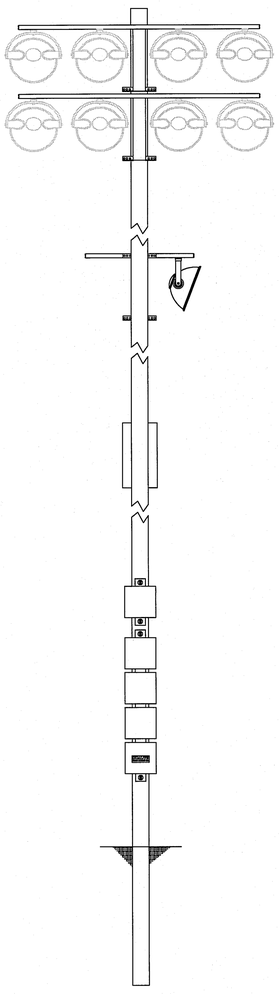
POLE F5 DETAILS

10/24/2014
NOT TO SCALE

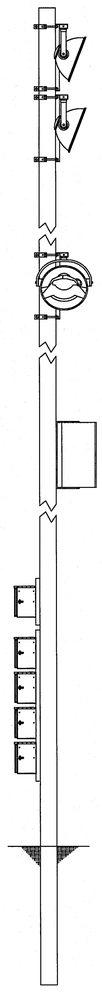
SL5



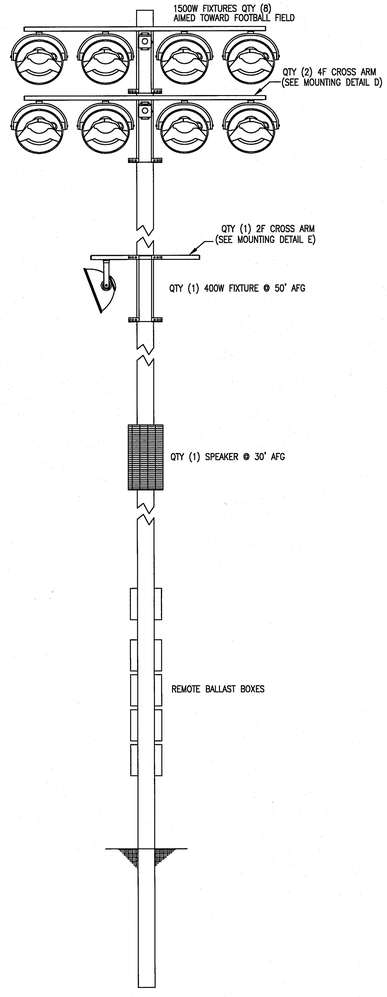
POLE LAYOUT



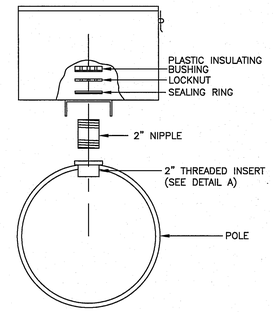
VIEW FROM REAR (0°)
(FACING FOOTBALL FIELD)



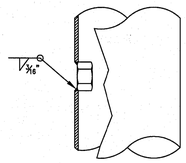
VIEW FROM SIDE (90°)



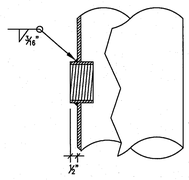
VIEW FROM FRONT (180°)



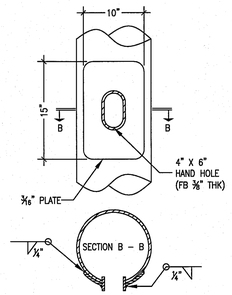
BALLAST BOX ELECTRICAL CONNECTION
TOP VIEW



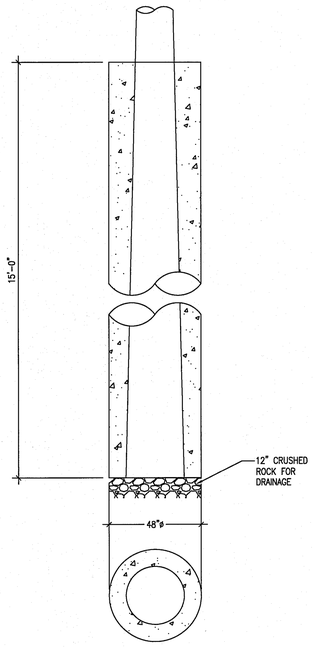
DETAIL B – THREADED INSERTS
¾"–10 OR ½"–13 HH NUTS



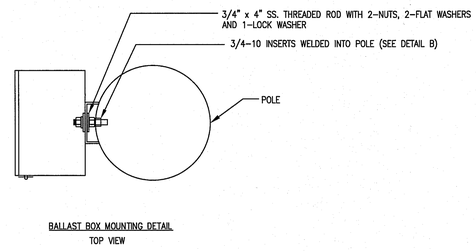
DETAIL A – 2" THREADED INSERTS



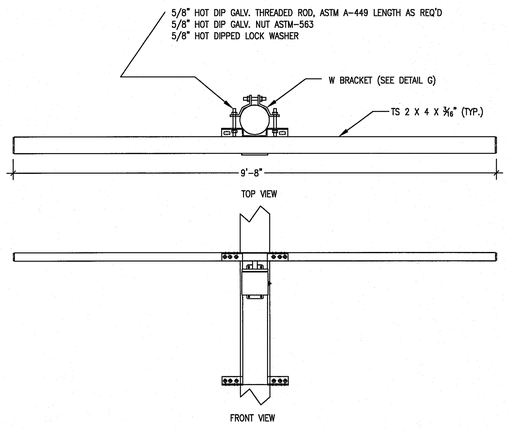
HAND HOLE DETAIL



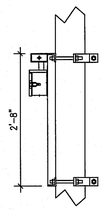
FOUNDATION DETAIL

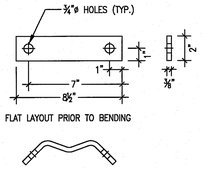


BALLAST BOX MOUNTING DETAIL
TOP VIEW

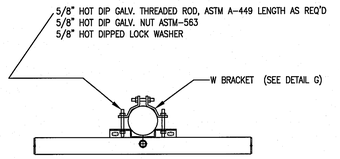


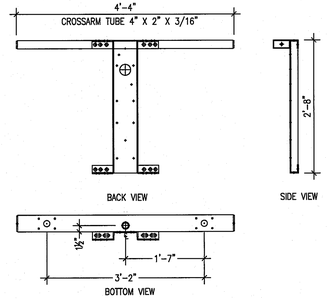
DETAIL D – 4F CROSS ARM MOUNTING





DETAIL G – W BRACKET





DETAIL E – 2F CROSS ARM MOUNTING

Qualite
SPORTS LIGHTING, LLC.
215 W. MECHANIC ST.
HILLSDALE, MI 49242
800 - 933 - 9741
fax: 517 - 439-1194
www.qualite.com

COLLEGE PARK HIGH SCHOOL

FOOTBALL FIELD LIGHTING
PLEASANT HILL, CA

LACH Engineering Solutions
1405 DOUGLAS AVE.
COLLEYVILLE, TX 76034
(817)416–9999 ph.
(817)796–2802 fax

REGISTERED PROFESSIONAL ENGINEER
ANTOINE SAMRA
SE-3854
Exp. 3/31/2015
STRUCTURAL
STATE OF CALIFORNIA

NO.	REVISION/ISSUE	DATE

POLE F6 DETAILS

10/24/2014
NOT TO SCALE

SL6