Solar Power Generation Systems at Eight Sites
Mira Mesa High School

ABBREVIATIONS

ABV	Above
AC	Acoustical
AC	Asphaltic Concrete
ACP	Acoustical Ceiling Panel
ACR, CR	Ceiling Restoration
ACT	Acoustical Ceiling Tile
A/C	Air Conditioning
ADD. ALT.	Additive Alternate
ADDL	Additional
ADJ	Adjacent
A.F.F.	Above Finish Floor
ARCH	Architect/Architectural
ALUM	Aluminum
AVW	At Variance With
AWP	Acoustical Wall Panel
B.P.	Building Paper
BLDG	Building
BLK	Block
BLKG	Blocking
BM	Beam
B/0	Bottom of
CA	California
CAB	Cabinet
CBC	California Building Code
CCR	California Code of Regulations
CEC	California Electrical Code
CEM	Cement
CFC	California Fire Code
CFCI	Contractor Furnished Contractor Installed
CIP	Cast-In-Place
CL	Centerline
CLG	Ceiling
CLR	Clear
CMC	California Mechanical Code
CMU	Concrete Masonry Unit
COL	Column
COMP	Composition
CONC	Concrete
CONSTR	Construction
CONT	Continuous
CP	Cement Plaster
CPC	California Plumbing Code
CPT	Carpet
CR, ACR	Ceiling Restoration
CT	Ceramic Tile
CTR	Center
CTRM	Courtroom
DEMO	Demolition
DET	Detail
DG	Decomposed Granite
DF	Drinking Fountain
DIA	Diameter
DIM	Dimension
DN	Down
DWG	Drawing
EA	Each
E.C.P.	Exterior Cement Plaster
EJ	Expansion Joint
ELECT	Electrical
ELEVT ELEV	Elevator
ELEV	Elevation
EMBED	Embedment
EQ	Equal
EQUIP	Equipment
ES	Each Side
(E) or EXIST	Existing
EXP	Expansion
EXT	Exterior
FB	Fire Blanket
FC	Fan Coil
FD	Floor Drain
FH	Fire Hydrant
FE	Fire Extinguisher
FIN	Finish / Finished
FIXT	Fixture
FLR	Floor / Flooring
FOC	Face of Concrete
FOF	Face of Finish
FOS	Face of Stud
FOW	Face of Wall
FP	Fire Proofed
F.R.	Fire Resistive
FT	Feet
FV	Field Verify
FLUOR	Fluorescent
GA	Gauge
GALV or G.I.	Galvanized Iron
GB, GYPBD or GYP	Gypsum Board
GEN	General
G.S.	Galvanized Steel
GLB	Glu-Lam Beam
GSM	Galvanized Sheet Metal
HB	Hose Bib
HDWD	Hardwood
HM	Hollow Metal
H.O.	Hold Open
HORZ	Horizontal
HT	Height
HDWR	Hardware
IN	Inch
INT	Interior
INCL	Included
INFO	Information
INSUL	Insulation
IOR	Inspector of Record
LAV	Lavatory
LCS	Lunch Court Shelter
LT	Light
MAX	Maximum
MB	Machine Bolt
MECH	Mechanical
MDF	Medium Density Fiberboard
MFR	Manufacturer
MIN	Minimum
MISC	Miscellaneous
MTD	Mounted
MTG	Mounting
MTL	Metal
MTRL	Material
N/C	No Change
NEC	National Electrical Code
NIC	Not In Contract
NO	Number
NTS	Not To Scale
NW	No Finish Work
OC	On Center
OD	Outside Diameter
O.F.C.I.	Owner Furnished Contractor Installed
O.F.O.I.	Owner Furnished Owner Installed
OPNG	Opening
OPP	Opposite
OPP HAND	Opposite Hand
OVERHD	Overhead
P	Paint
P.A.F.	Powder Actuated Fastener
PERF	Perforated
PH	Panic Hardware
PL, PLSTR	Plaster
PLAM	Plastic Laminate
PLUMB	Plumbing
PLYWD	Plywood
PREP	Preparation
PROP	Property
PTD	Painted
PTN	Partition
PV	Photovoltaic
QT	Quarry Tile
RB	Rubber Base
REC	Recommendations
RCP	Reflected Ceiling Plan
REQD	Required
RES	Resilient
RET	Retaining
RM	Room
SC	Solid Core
SCHED	Schedule / Scheduled
SHT	Sheet
SIM	Similar
SKYLT	Skylight
SPECS	Specifications
SS	Stainless Steel
STD	Standard
STL	Steel
STRUCT	Structural
STUC	Stucco
SUSP	Suspended
SV	Sheet Vinyl
SYM	Symmetrical
T/O	Top of
TOG	Top of Grade
TB	Tack Board
TRANSP	Transparent
TRZ	Terrazzo
TS	Tube Steel
TYP	Typical
UBC	Uniform Building Code
UMC	Uniform Mechanical Code
UNO	Unless Noted Otherwise
UON	Unless Otherwise Noted
UPC	Uniform Plumbing Code
USC	Under Separate Contract
VERT	Vertical
VIF	Verify In Field
W/	With
WD	Wood
WHT	White
W/O	Without
W.O.	Where Occurs
WP	Waterproof
W.R.	Water Resistant
W.M.	Wall Mounted
WT	Weight
WDW	Window
&	And
@	At

DEFERRED APPROVAL

THERE ARE NO DEFERRED APPROVALS ASSOCIATED WITH THIS APPLICATION.

PROJECT INSPECTOR (PI)

1. The Project Inspector (PI) employed by the district (owner) and approved by the Division of the State Architect shall provide continuous inspection of the work.
2. The duties of the Inspector are defined in Section 4-342, Part 1, Title 24, CCR, Class 2.
3. Changes to the Division of the State Architect-approved drawings and specifications shall be made by Addenda or Construction Change Documents for changes to the structural, accessibility or fire-life safety portions of the project. Changes shall be submitted to and approved by the DSA prior to commencement of the work shown thereon (CAC 4-338 (c)).

GENERAL NOTES

1. 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 not covered by the Contract Documents such that the finished Work will not comply with said Title 24, California Code of Regulations, a Change Order detailing and specifying the required Work shall be submitted to and approved by DSA-ACS before proceeding with the Work.

2. The work shall be performed in accordance with applicable code requirements including but not limited to the following:
   - **2.1. 2013 Building Standards Administrative Code (CAC)**, Part 1, Title 24 C.C.R.
   - **2.2. 2013 California Building Code (CBC)**, Part 2, Title 24 C.C.R. (2012 International Building Code and 2013 California Amendments)
   - **2.3. 2013 California Electrical Code (CEC)** , Part 3, Title 24 C.C.R. (2011 National Electrical Code and 2013 California Amendments)
   - **2.4. 2013 California Mechanical Code (CMC)** Part 4, Title 24 C.C.R. (2012 Uniform Mechanical Code and 2013 California Amendments)
   - **2.5. 2013 California Plumbing Code (CPC)**, Part 5, Title 24 C.C.R. (2012 Uniform Plumbing Code and 2013 California Amendments)
   - **2.6. 2013 California Energy Code**, Part 6, Title 24 C.C.R.
   - **2.7. 2013 California Elevator Code**, Part 7, Title 24 C.C.R.
   - **2.8. 2013 California Fire Code (CFC)**, Part 9, Title 24 C.C.R. (2012 International Fire Code and 2013 California Amendments)
   - 2.9 **2013 California Green Building Standards Code (CALGreen)**, Part 11, Title 24 C.C.R.
   - 2.10 **2013 California Referenced Standards**, Part 12, Title 24 C.C.R.
   - 2.11 **Title 19 C.C.R. Public Safety, State Fire Marshal Regulations**.

3. Additionally, work must comply with applicable standards including but not limited to the following:

3.1.	NFPA 13	Automatic Sprinkler Systems 2013 Edition
3.2.	NFPA 14	Standpipe Systems (CA Amended) 2013 Edition
3.3.	NFPA 17a	Wet Chemical Systems 2013 Edition
3.4.	NFPA 20	Stationary Pumps 2013 Edition
3.5.	NFPA 24	Private Fire Mains (CA Amended) 2013 Edition
3.6.	NFPA 72	National Fire Alarm Code (CA Amended) 2013 Edition
3.7.	NFPA 80	Fire Door and Other Opening Protectives 2013 Edition
3.8.	NFPA 2001	Clean Agent Fire Extinguishing Systems 2013 Edition

3.9. Reference code section for NFPA Standards - 2013 CBC (SFM) Chapter 35.
3.10. See Chapter 35 for State of California amendments to NFPA Standards.

4. Patch and repair to pre-existing condition all existing visible items to remain which are damaged or disrupted during the course of the work. Work indicated to abut or join existing work shall be finished and/or refinished together so as to give no visible evidence of the joint.

5. Provide approved galvanic barrier between all dissimilar metals in contact with one another.

6. The contractor shall verify the conditions of the site and report all discrepancies between these documents and existing conditions to the District Inspector or Architect before proceeding with the work.

7. These drawings and the specifications comprise the contract documents and must be used in conjunction with each other, not separately.

8. Fire safety during construction, remodel or demolition of a building, shall comply with C.F.C. Chapter 33.

9. Contractor is responsible for removing and storing all equipment to original working order and furnishings prior to work in existing areas.

10. 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 (CCD), or a separate set of plans and specifications detailing and specifying the required repair work, shall be submitted to and approved by the DSA before proceeding with the repair work.

GENERAL DEMOLITION NOTES

1. Drawings establish the general extent of demolition in preparation for construction and improvements. Additional demolition may be required to complete the Work. Contractor shall visit the site and determine the complete scope of work before bidding.
2. Refer to specifications, Division 2, for additional demolition requirements.
3. Deconstruction shall not occur prior to Contractor providing creditable documentation demonstrating the replacement equipment has been ordered and anticipated delivery date(s) conforms with the project schedule. Such documentation shall be provided to San Diego Unified School District (SDUSD) Construction Manager for review and approval.

DIRECTORY

OWNER
San Diego Unified School District
SYDNEY HAWKINS, Project Coordinator
4860 Ruffner Street
San Diego, CA 92111-1522
619.260.5417

PHOTOVOLTAICS
Sage Renewables
TOM WILLIARD, Principal
12315 Sir Francis Drake Blvd
Inverness, CA 94937

CIVIL
Snypes-Dye Associates
WILLIAM DICK, Principal
8348 Center Drive, Suite G
La Mesa, CA 91942-2910

LANDSCAPE
Schmidt Design Group, Inc
JEFF JUSTUS, Principal
1111 6th Avenue, Suite 500
San Diego, CA 92101

ARCHITECT
Zagrodnik + Thomas Architects, LLP
SCOTT THOMAS, Partner
3956 30th Street
San Diego, CA 92104
619.528.1199; fax: 619.525.8181

STRUCTURAL
Miyamoto International
PETER CARLSON, Senior Associate
5151 Shoreham Place #280
San Diego, CA 92122

MECHANICAL
Bender-Dean Engineering
MARK BENDER, Principal
438 Camino Del Rio South
Suite 217
San Diego, CA 92108

ELECTRICAL
Turpin & Rattan Engineering
DALE FRANCHAK, Associate
47419 Palm Avenue
LaMesa, CA 91941

SHEET INDEX

GENERAL INFORMATION
G2-01 Title Sheet

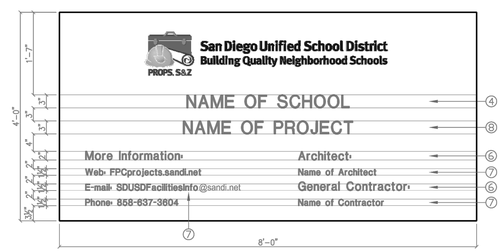
CIVIL DRAWINGS
C1.2 Mira Mesa HS Aerial Topo Survey
C2.2 Mira Mesa HS Hose Bib Location Plan
C2.2A Mira Mesa HS Possible Site Conflicts (Markup on plan by ZTA)

LANDSCAPE DRAWINGS
L0-01 Sample Exhibit
L2-01 Mira Mesa HS Demolition
L2-02 Mira Mesa HS Repair

ARCHITECTURAL DRAWINGS
A2-01 Mira Mesa HS Site Plan
A2-02 Mira Mesa HS Path of Travel
A2-03 Mira Mesa HS Enlarged Parking Plan

ELECTRICAL DRAWINGS
E2-01 Mira Mesa HS Electrical Site Plan
E2-02 Mira Mesa HS Single Line Diagram

CONSTRUCTION SIGN DETAIL



PROJECT SIGN
Contractor shall verify all information with District prior to starting sign.

DESIGN LEGEND:
1. All letters on project sign shall be HELVETICA MEDIUM.
2. Sign shall be 8'-0" wide by 4'-0" high (3/4" EXTERIOR GRADE PLYWOOD) with white background.
3. Number 3: 2-1/2" black letters.
4. Number 4: 2-1/2" black letters.
5. Number 5: 2" black letters.
6. Number 6: 2" black letters.
7. Number 7: 1-1/2" black letters.
8. Number 8: 3" black letters.
9. Number 9: 2-1/2" BOLD black letters.

PAINT LEGEND:
Paint shall be exterior flat:
- Black – Frazee Ebony Black, 260200 Acri-tec

For Questions regarding this project please contact:
Cynthia Reed-Porter, Communications Supervisor San Diego Unified School District
Office: 858-637-3607 / Mobile: 619-546-3378 / E-mail: creed-porter@sandi.net

REVIEWED BY
DISTRICT ARCHITECT — DATE
ASSISTANT DISTRICT ARCHITECT — DATE
SITE ADMINISTRATOR — DATE
OTHER — DATE
OTHER — DATE
OTHER — DATE

CONSULTANT

ARCHITECT

SAN DIEGO UNIFIED SCHOOL DISTRICT

PREPARED FOR
BOARD OF EDUCATION
SAN DIEGO UNIFIED SCHOOL DISTRICT
SAN DIEGO, CALIFORNIA

PREPARED BY
ZAGRODNIK + THOMAS ARCHITECTS, LLP

Mira Mesa High School
Title Sheet

FACILITIES MANAGEMENT
Solar Power Generation Systems

SUBMITTAL: 00 Submittal	PROJECT NO. 1521
	DATE 12/15/2015
	DRAWN ZTA
	CHECKED
REVISIONS -	SHEET NO. G2-01

December 15, 2015

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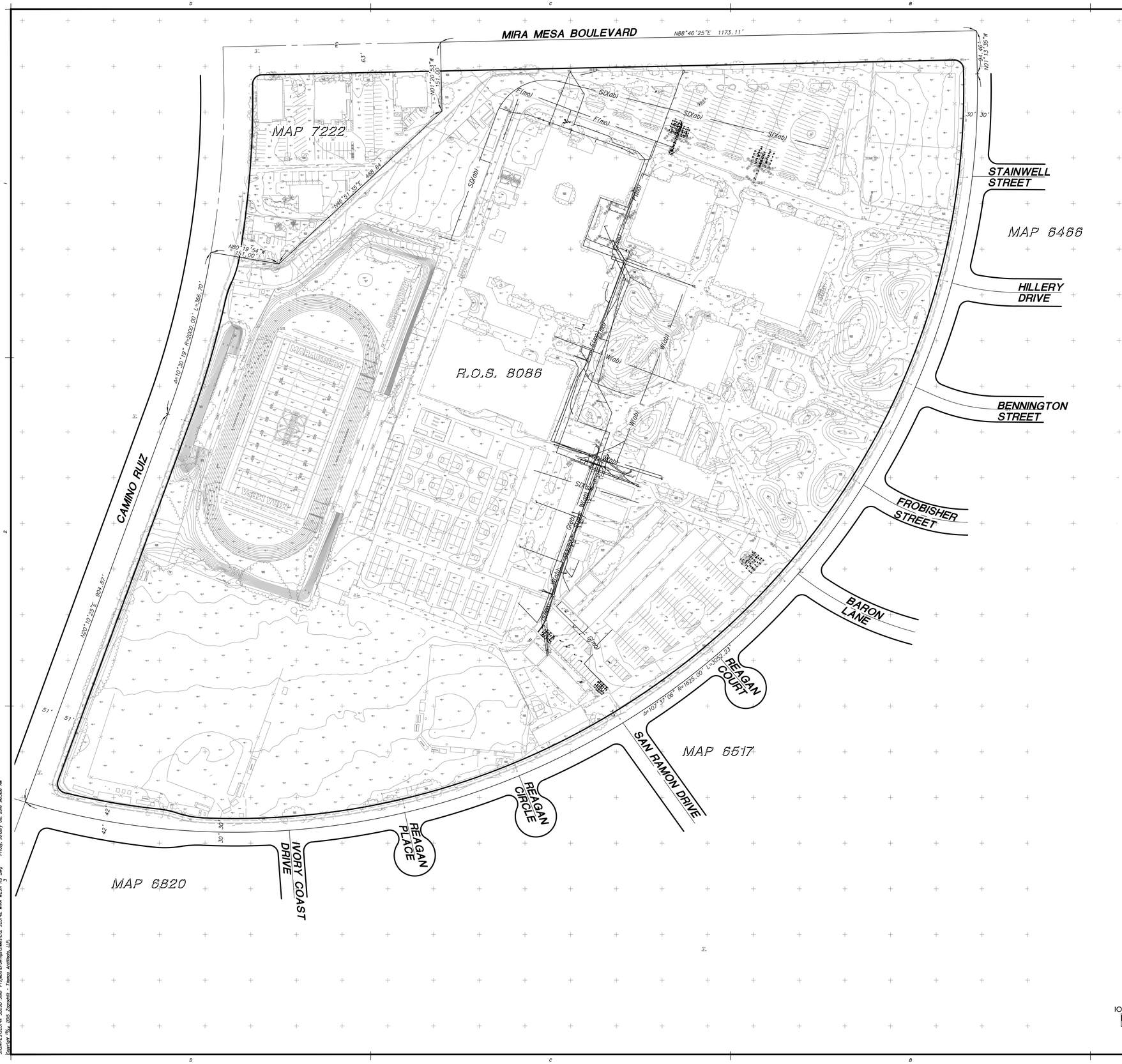

LEGAL DESCRIPTION:

ALL THAT PORTION OF SECTION 36, TOWNSHIP 14 SOUTH, RANGE 3 WEST, SAN BERNARDINO BASE AND MERIDIAN, IN THE COUNTY OF SAN DIEGO, STATE OF CALIFORNIA, ACCORDING TO UNITED STATES GOVERNMENT SURVEY, APPROVED MAY 20, 1864.

ASSESSOR'S PARCEL NUMBER:

311-041-02

BENCHMARK:

THE BENCHMARK FOR THIS SURVEY IS THE CITY OF SAN DIEGO BRASS PLUG IN THE TOP OF THE CURB AT THE SOUTHEAST CORNER OF REAGAN ROAD AND REAGAN CIRCLE. ELEVATION = 438.151, NGVD29.

UTILITY NOTES:

1. UNDERGROUND SOLUTIONS, INC. PROVIDED MARK-OUT SERVICES OVER THE PROPOSED LOCATIONS OF THE SOLAR PANELS AND NEAR THE MAIN ELECTRICAL SERVICE. A CONTINUOUS MARK-OUT BETWEEN THE SOLAR PANELS AND MAIN ELECTRICAL SERVICE WAS NOT PROVIDED AS THERE WAS NOT PRECISELY DEFINED ROUTING FOR THE CONDUIT.
2. ADDITIONAL UTILITIES WERE PLOTTED FROM PLANS DOWNLOADED FROM THE DISTRICT'S ON-LINE AERO WEBSITE.
3. ADDITIONAL UTILITIES POTENTIALLY COULD BE LOCATED WITHIN THE PROPOSED WORK AREAS AS THEY HAVE THE POTENTIAL TO NOT BE TRACEABLE WITH MARK-OUT EQUIPMENT AND/OR THERE WERE NO PLANS OF RECORD AVAILABLE ON THE AERO SITE.

LEGEND:

- INDICATES FIRE HYDRANT.
UHH - INDICATES UTILITY HANDHOLE.
SCO - INDICATES SEWER CLEANOUT.
SMH - INDICATES SEWER MANHOLE.
WV - INDICATES WATER VALVE.
EHH - INDICATES ELECTRICAL HANDHOLE.
CV - INDICATES COMMUNICATIONS VAULT.
GM - INDICATES GAS METER.
SHH - INDICATES SEWER HANDHOLE.
ICV - INDICATES IRRIGATION CONTROL VALVE.
EV - INDICATES ELECTRICAL VAULT.
GVLV - INDICATES GAS VALVE.
WHH - INDICATES WATER HANDHOLE.
WR - INDICATES WATER RISER.
TG - INDICATES TOP OF GRATE.
IE - INDICATES INVERT ELEVATION.
TC - INDICATES TOP OF CURB.
GP - INDICATES GUARD POST.
SDGEV - INDICATES SAN DIEGO GAS AND ELECTRIC VAULT.
SD(mo) - INDICATES STORM DRAIN MARKOUT.
W(mo) - INDICATES WATER MARKOUT.
E(mo) - INDICATES ELECTRICAL MARKOUT.
COM(mo) - INDICATES COMMUNICATION MARKOUT.
S(mo) - INDICATES SEWER MARKOUT.
G(mo) - INDICATES GAS MARKOUT.
F(mo) - INDICATES FIRE MARKOUT.
SL(mo) - INDICATES STREET LIGHT MARKOUT.
SD(ab) - INDICATES STORM DRAIN FROM AS-BUILT.
W(ab) - INDICATES WATER FROM AS-BUILT.
E(ab) - INDICATES ELECTRICAL FROM AS-BUILT.
S(ab) - INDICATES SEWER FROM AS-BUILT.
G(ab) - INDICATES GAS FROM AS-BUILT.

LICENSED LAND SURVEYOR WILLIAM A. SNIPES Exp.12-31-16 No. 8034 STATE OF CALIFORNIA
1/8/16
WILLIAM A. SNIPES

REVIEWED BY	DATE
DISTRICT ARCHITECT	DATE
ASSISTANT DISTRICT ARCHITECT	DATE
SITE ADMINISTRATOR	DATE
OTHER	DATE
OTHER	DATE
OTHER	DATE

CONSULTANT

LICENSED ARCHITECT SCOTT W. THOMAS C-22787 REN. 6-30-17 STATE OF CALIFORNIA — ARCHITECT

SAN DIEGO UNIFIED SCHOOL DISTRICT

PREPARED FOR
BOARD OF EDUCATION
SAN DIEGO UNIFIED SCHOOL DISTRICT
SAN DIEGO, CALIFORNIA

PREPARED BY
ZAGRODNIK + THOMAS ARCHITECTS, LLP

AERIAL TOPOGRAPHIC SURVEY
MIRA MESA HS

FACILITIES MANAGEMENT

Solar Power Generation Systems

SUBMITTAL: 00 Submittal	PROJECT NO. 1521
	DATE 01/08/2016
	DRAWN MS / CHECKED BS
REVISIONS -	SHEET NO. C1.2

January 8, 2016

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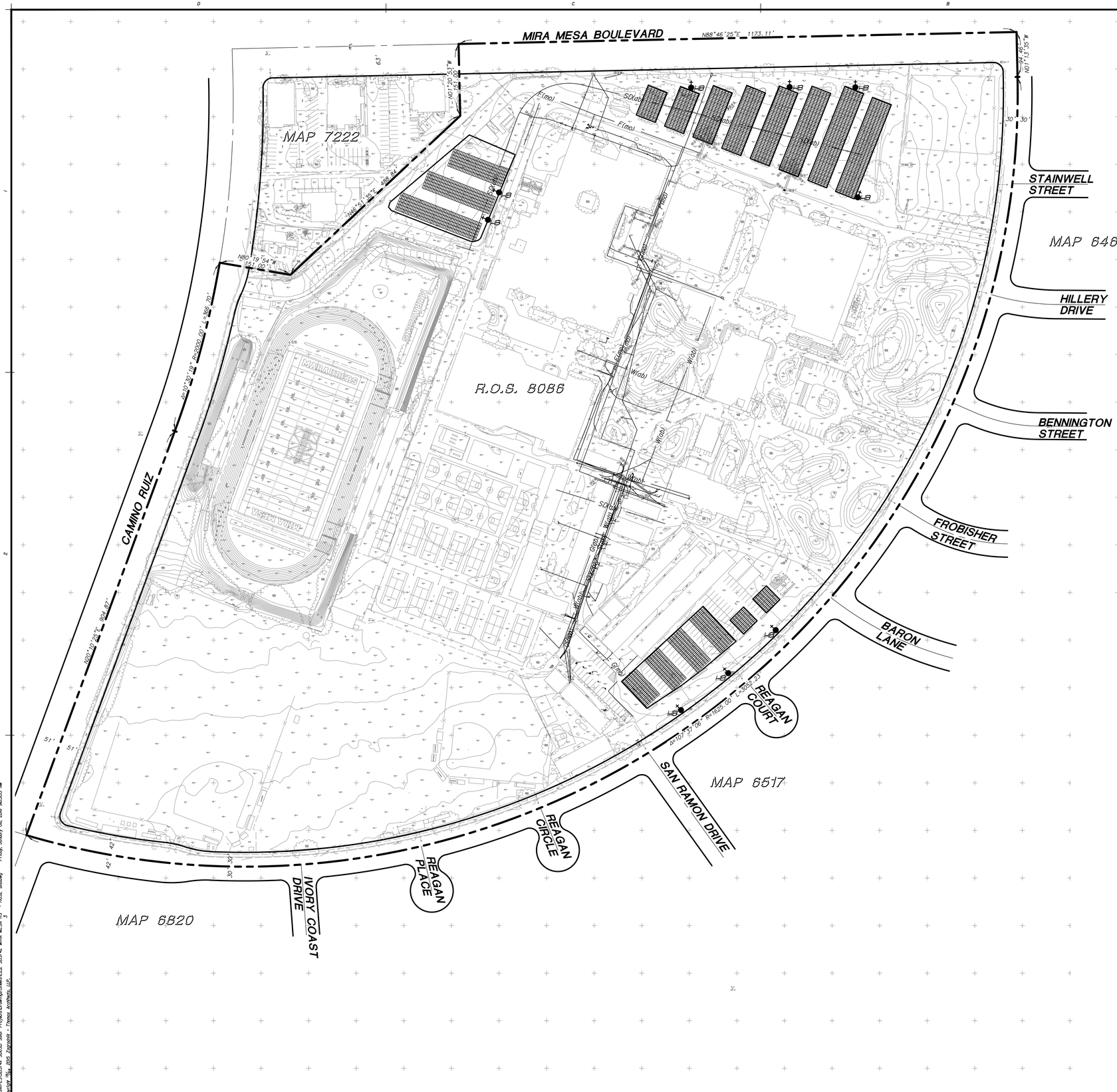

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HOSE BIB CONSTRUCTION NOTES:

1. THE LOCATIONS SHOWN FOR THE PLACEMENT OF THE HOSE BIBS ARE FOR INFORMATIONAL PURPOSES ONLY.
2. THE CONTRACTOR IS RESPONSIBLE FOR THE ACTUAL PLACEMENT OF THE HOSE BIBS AND FOR LOCATING WATER SERVICE SOURCE TO SERVE EACH ONE.
3. A HOSE BIB SHALL BE LOCATED WITHIN 50' OF EACH SET OF SOLAR PANELS AND SHALL NOT BE MORE THAN 200' FROM THE END OF THE SET.
4. A HOSE BIB NOT ON THE SAME PLANE OR TIER SHALL NOT BE UTILIZED FOR THE DIFFERENT PLANE OR TIER REGARDLESS OF DISTANCE.
5. PIPING TO HOSE BIB SHALL BE A MINIMUM OF 3/4" PVC.

LEGEND:

LB - INDICATES HOSE BIB

REGISTERED PROFESSIONAL ENGINEER WILLIAM A. SNIPES No. 50477 Exp. 06-30-17 CIVIL STATE OF CALIFORNIA

1/8/16

WILLIAM A. SNIPES

REVIEWED BY

	DATE
DISTRICT ARCHITECT	DATE
ASSISTANT DISTRICT ARCHITECT	DATE
SITE ADMINISTRATOR	DATE
OTHER	DATE
OTHER	DATE
OTHER	DATE

CONSULTANT

LICENSED ARCHITECT SCOTT W. THOMAS C-22787 REN. 6-30-17 STATE OF CALIFORNIA

ARCHITECT

SAN DIEGO UNIFIED SCHOOL DISTRICT

PREPARED FOR

BOARD OF EDUCATION
SAN DIEGO UNIFIED SCHOOL DISTRICT
SAN DIEGO, CALIFORNIA

PREPARED BY

ZAGRODNIK + THOMAS ARCHITECTS, LLP

HOSE BIB LOCATION PLAN
MIRA MESA HS

FACILITIES MANAGEMENT

Solar Power Generation Systems

SUBMITTAL: 00 Submittal	PROJECT NO. 1521
	DATE 01/08/2016
	DRAWN MS / CHECKED BS
REVISIONS -	SHEET NO. C2.2

January 8, 2016

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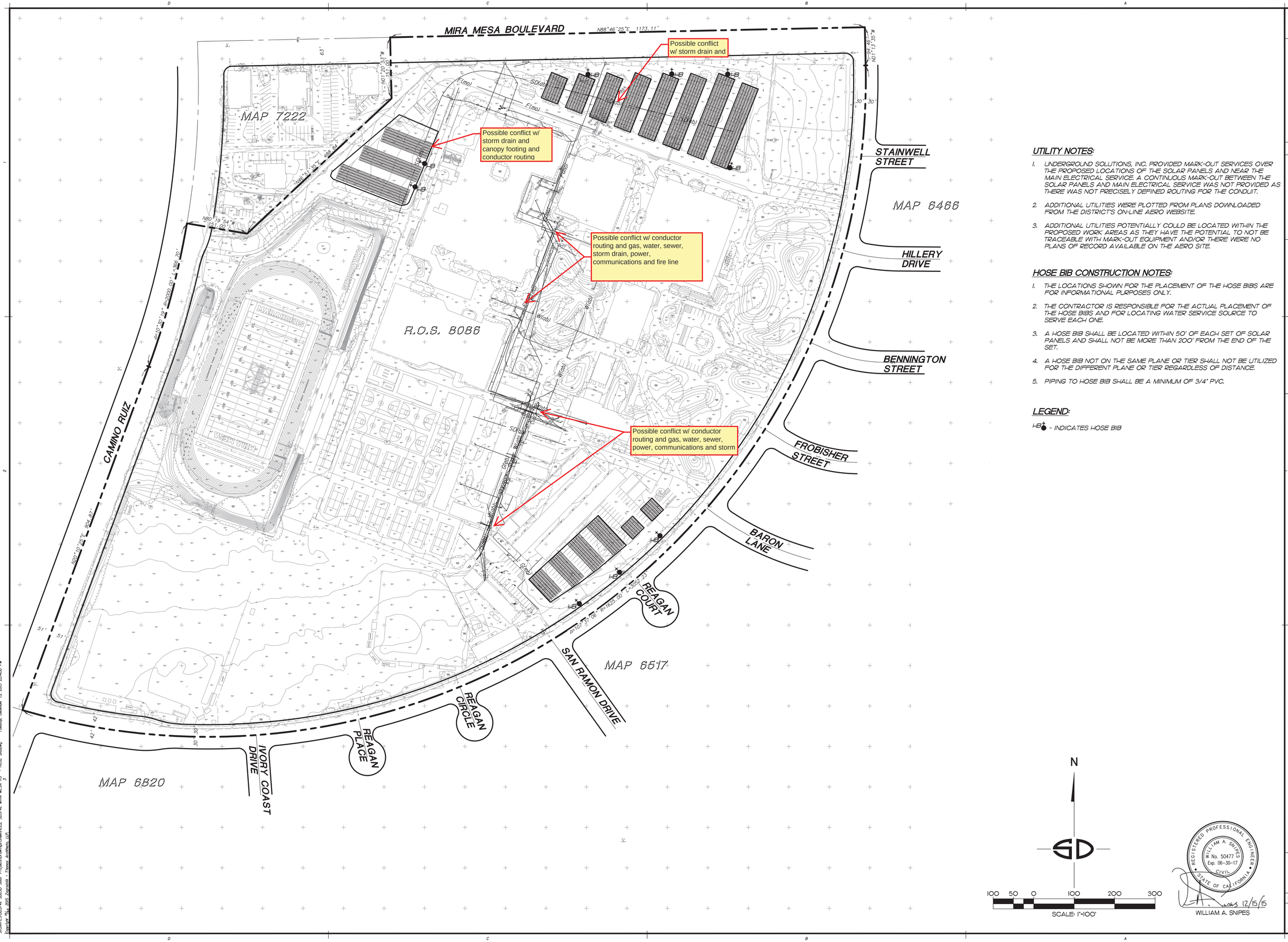

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LEGEND:

HB - INDICATES HOSE BIB

REGISTERED PROFESSIONAL ENGINEER WILLIAM A. SNIPES No. 50477 Exp. 06-30-17 CIVIL STATE OF CALIFORNIA

12/15/15

WILLIAM A. SNIPES

REVIEWED BY

DISTRICT ARCHITECT — DATE
ASSISTANT DISTRICT ARCHITECT — DATE
SITE ADMINISTRATOR — DATE
OTHER — DATE
OTHER — DATE
OTHER — DATE

CONSULTANT

LICENSED ARCHITECT — SCOTT W. THOMAS — C — REN. — STATE OF CALIFORNIA — ARCHITECT

SAN DIEGO UNIFIED SCHOOL DISTRICT

PREPARED FOR
BOARD OF EDUCATION
SAN DIEGO UNIFIED SCHOOL DISTRICT
SAN DIEGO, CALIFORNIA

PREPARED BY
ZAGRODNIK + THOMAS ARCHITECTS, LLP

HOSE BIB LOCATION PLAN
MIRA MESA HS

FACILITIES MANAGEMENT

Solar Power Generation Systems

SUBMITTAL: 00 Submittal	PROJECT NO. 1521
	DATE 12/15/2015
	DRAWN MS
	CHECKED BS
REVISIONS -	SHEET NO. C2.2A

December 15, 2015

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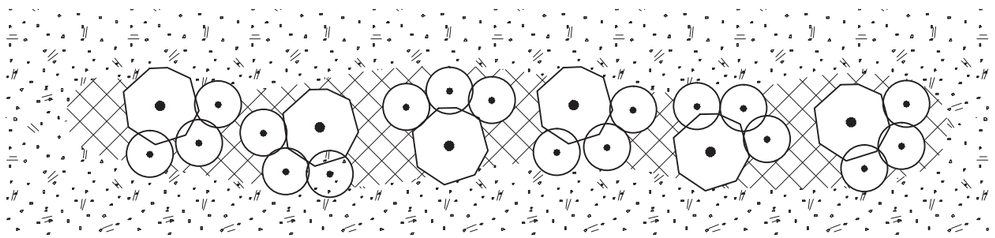
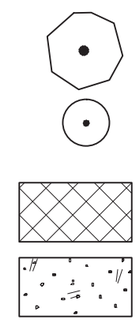


PLAN



PROPOSED PLANTING SCHEDULE

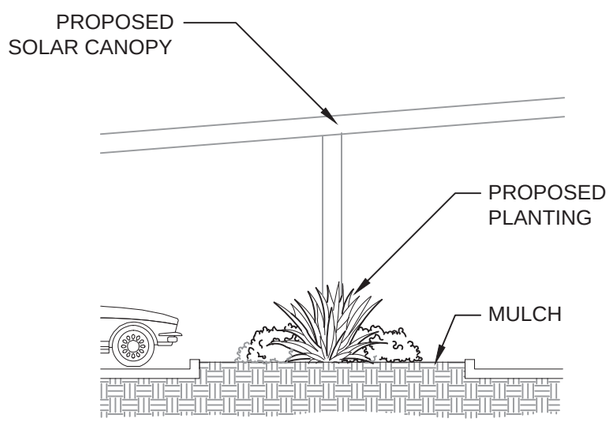
SHRUBS SIZE	QTY
15 GAL	6
5 GAL	18

GROUNDCOVER SIZE	QTY
1 GAL @ 18" O.C.	75

MULCH

TYPICAL REPAIR PLANTING PER APPROXIMATELY 1,000 S.F.

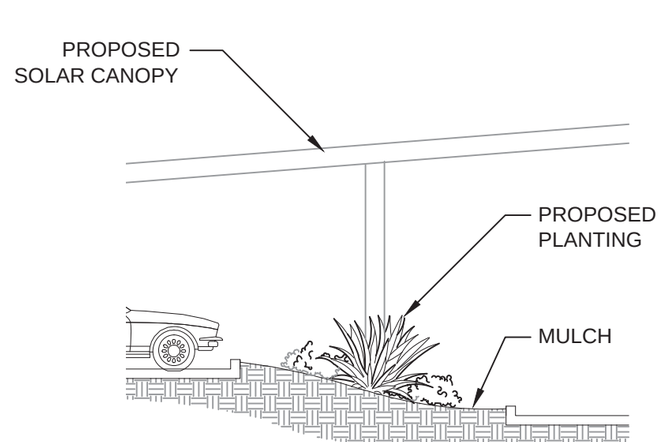
SCALE = 1"-10'-0"



ELEVATION

TYPICAL ISLAND PLANTING

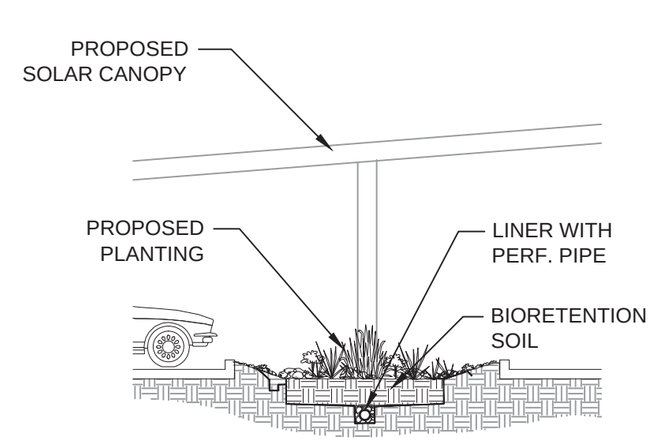
NTS



ELEVATION

TYPICAL SLOPE PLANTING

NTS



ELEVATION

TYPICAL BIOSWALE PLANTING

NTS

Schmidt Design Group, inc.

BALANCING ARTISTIC EXPRESSION IN DESIGN WITH ENVIRONMENTAL SENSITIVITY

1111 Sixth Avenue, Suite 500, San Diego, CA 92101
telephone {619} 236-1462 facsimile {619} 236-8792
www.schmidtdesign.com

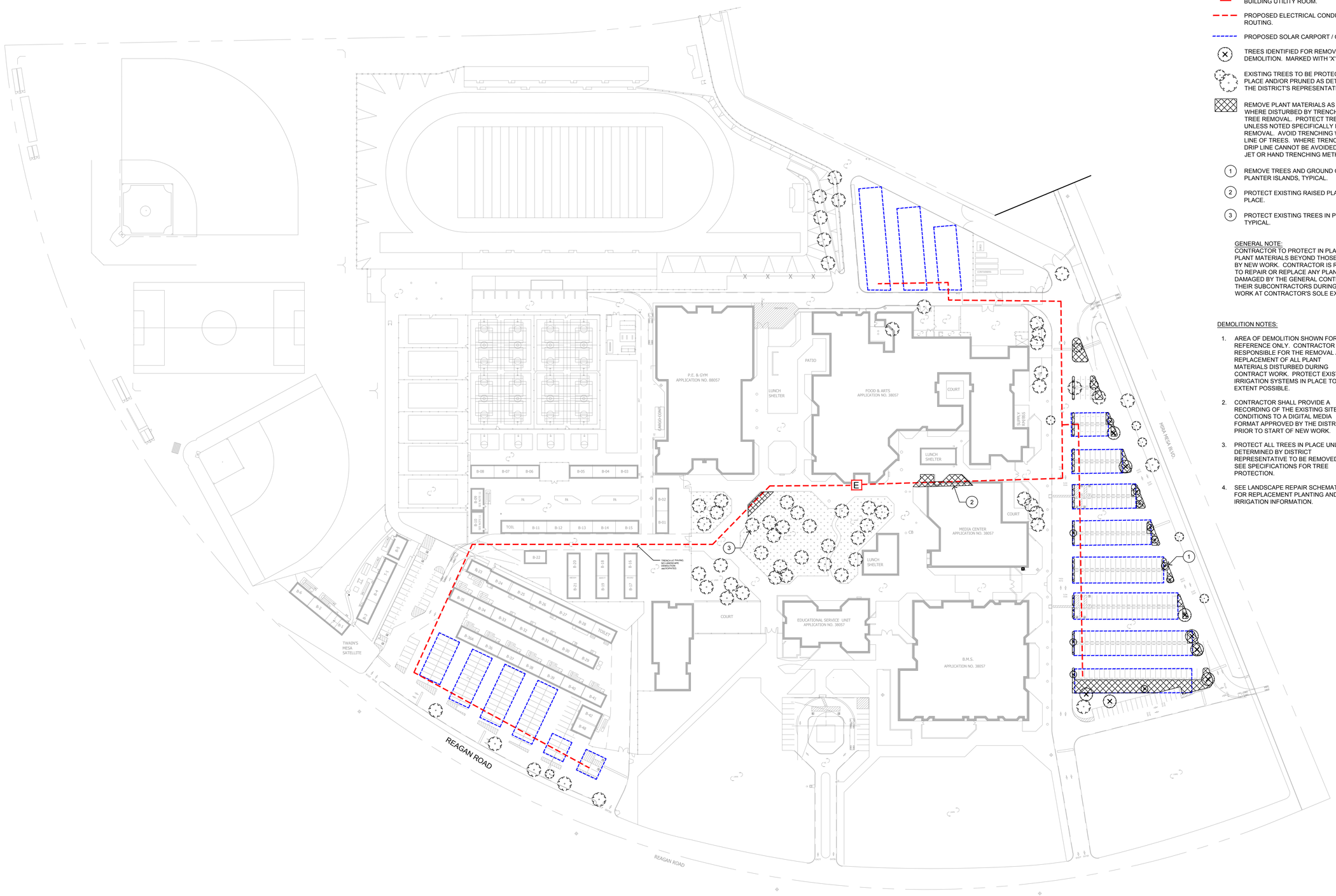
Lic. CA 2138, NV 219, AZ 34139

Sample Landscape Exhibit

SDUSD SOLAR PV PROJECT

San Diego, CA

Project Number: 15-618
Date: October 16th, 2015



DEMOLITION LEGEND:

- E — EXISTING MAIN ELECTRICAL SERVICE IN BUILDING UTILITY ROOM.
- PROPOSED ELECTRICAL CONDUCTOR ROUTING.
- PROPOSED SOLAR CARPORT / CANOPY.
- TREES IDENTIFIED FOR REMOVAL AND DEMOLITION. MARKED WITH 'X'.
- EXISTING TREES TO BE PROTECTED IN PLACE AND/OR PRUNED AS DETERMINED BY THE DISTRICT'S REPRESENTATIVE.
- REMOVE PLANT MATERIALS AS REQUIRED WHERE DISTURBED BY TRENCHING AND TREE REMOVAL. PROTECT TREES IN PLACE UNLESS NOTED SPECIFICALLY FOR REMOVAL. AVOID TRENCHING WITHIN DRIP LINE OF TREES. WHERE TRENCHING WITHIN DRIP LINE CANNOT BE AVOIDED, USE WATER JET OR HAND TRENCHING METHODS.
- 1 — REMOVE TREES AND GROUND COVER FROM PLANTER ISLANDS, TYPICAL.
- 2 — PROTECT EXISTING RAISED PLANTER IN PLACE.
- 3 — PROTECT EXISTING TREES IN PLACE, TYPICAL.

GENERAL NOTE:
CONTRACTOR TO PROTECT IN PLACE ALL PLANT MATERIALS BEYOND THOSE IDENTIFIED BY NEW WORK. CONTRACTOR IS RESPONSIBLE TO REPAIR OR REPLACE ANY PLANT MATERIALS DAMAGED BY THE GENERAL CONTRACTOR AND THEIR SUBCONTRACTORS DURING CONTRACT WORK AT CONTRACTOR'S SOLE EXPENSE.

DEMOLITION NOTES:

1. AREA OF DEMOLITION SHOWN FOR REFERENCE ONLY. CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL AND REPLACEMENT OF ALL PLANT MATERIALS DISTURBED DURING CONTRACT WORK. PROTECT EXISTING IRRIGATION SYSTEMS IN PLACE TO THE EXTENT POSSIBLE.
2. CONTRACTOR SHALL PROVIDE A RECORDING OF THE EXISTING SITE CONDITIONS TO A DIGITAL MEDIA FORMAT APPROVED BY THE DISTRICT PRIOR TO START OF NEW WORK.
3. PROTECT ALL TREES IN PLACE UNLESS DETERMINED BY DISTRICT REPRESENTATIVE TO BE REMOVED. SEE SPECIFICATIONS FOR TREE PROTECTION.
4. SEE LANDSCAPE REPAIR SCHEMATIC FOR REPLACEMENT PLANTING AND IRRIGATION INFORMATION.

0 40 80 160
SCALE : 1" = 80'-0"

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telephone [619] 236-1462 facsimile [619] 236-8792
www.schmidtdesign.com
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NORTH

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OTHER	DATE
OTHER	DATE

CONSULTANT

ARCHITECT

SAN DIEGO UNIFIED SCHOOL DISTRICT

PREPARED FOR
BOARD OF EDUCATION
SAN DIEGO UNIFIED SCHOOL DISTRICT
SAN DIEGO, CALIFORNIA

PREPARED BY
ZAGRODNIK + THOMAS ARCHITECTS, LLP

Landscape Demo Schematic
Mira Mesa HS

FACILITIES MANAGEMENT

Solar Power Generation Systems

SUBMITTAL: 00 Submittal	PROJECT NO.
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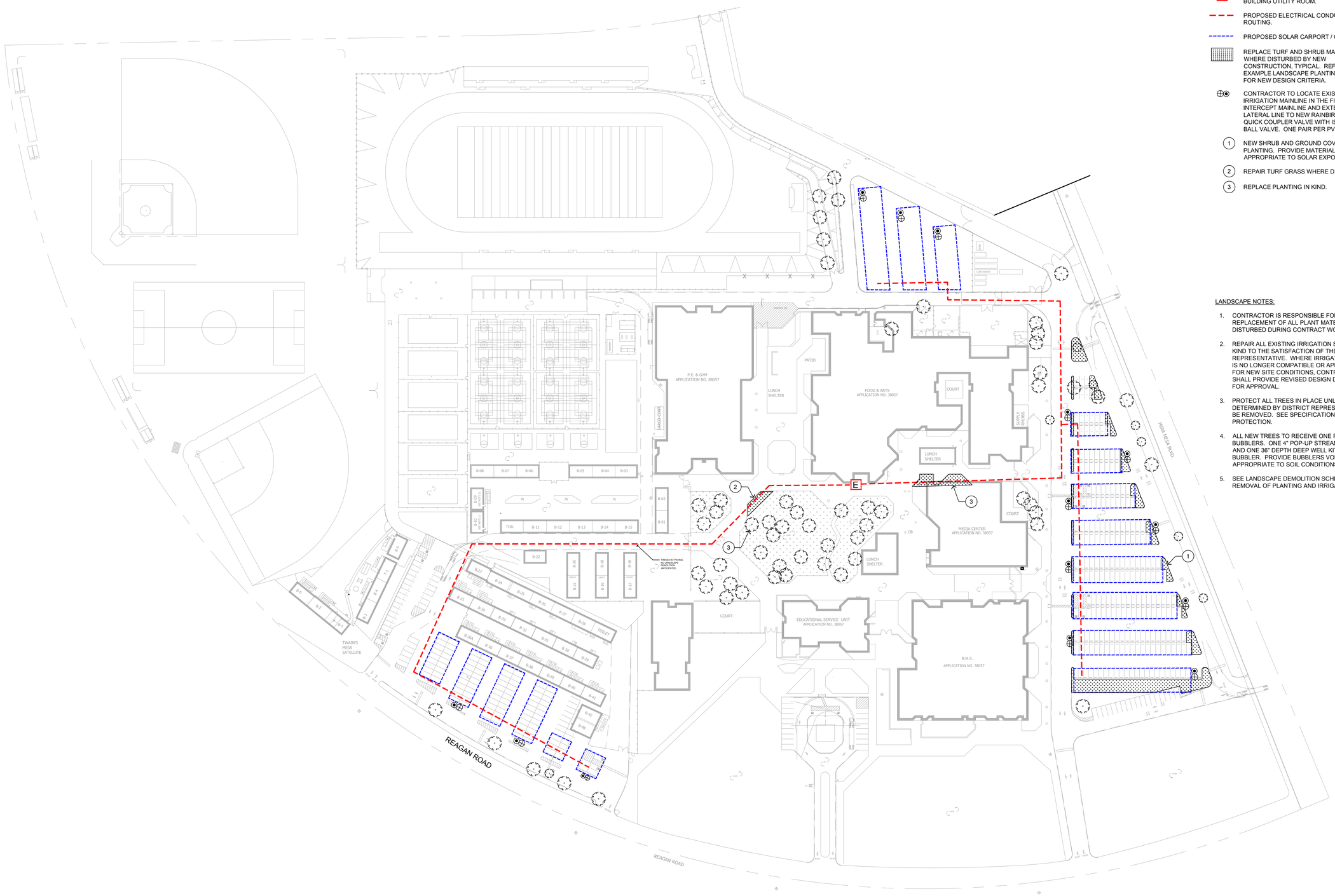
REVISIONS	SHEET NO.
-	L2-01

December 15, 2015



LANDSCAPE LEGEND:

- E — EXISTING MAIN ELECTRICAL SERVICE IN BUILDING UTILITY ROOM.
- PROPOSED ELECTRICAL CONDUCTOR ROUTING.
- PROPOSED SOLAR CARPORT / CANOPY.
- REPLACE TURF AND SHRUB MATERIALS WHERE DISTURBED BY NEW CONSTRUCTION, TYPICAL. REFER TO EXAMPLE LANDSCAPE PLANTING EXHIBIT FOR NEW DESIGN CRITERIA.
- CONTRACTOR TO LOCATE EXISTING IRRIGATION MAINLINE IN THE FIELD. INTERCEPT MAINLINE AND EXTEND 1 1/4" LATERAL LINE TO NEW RAINBIRD 44LRC QUICK COUPLER VALVE WITH ISOLATION BALL VALVE. ONE PAIR PER PV CANOPY.
- (1) NEW SHRUB AND GROUND COVER PLANTING. PROVIDE MATERIALS APPROPRIATE TO SOLAR EXPOSURE.
- (2) REPAIR TURF GRASS WHERE DISTURBED.
- (3) REPLACE PLANTING IN KIND.

LANDSCAPE NOTES:

1. CONTRACTOR IS RESPONSIBLE FOR THE REPLACEMENT OF ALL PLANT MATERIALS DISTURBED DURING CONTRACT WORK.
2. REPAIR ALL EXISTING IRRIGATION SYSTEMS IN KIND TO THE SATISFACTION OF THE DISTRICT'S REPRESENTATIVE. WHERE IRRIGATION SYSTEM IS NO LONGER COMPATIBLE OR APPROPRIATE FOR NEW SITE CONDITIONS, CONTRACTOR SHALL PROVIDE REVISED DESIGN DRAWINGS FOR APPROVAL.
3. PROTECT ALL TREES IN PLACE UNLESS DETERMINED BY DISTRICT REPRESENTATIVE TO BE REMOVED. SEE SPECIFICATIONS FOR TREE PROTECTION.
4. ALL NEW TREES TO RECEIVE ONE PAIR OF TREE BUBBLERS. ONE 4" POP-UP STREAM BUBBLER AND ONE 36" DEPTH DEEP WELL KIT WITH BUBBLER. PROVIDE BUBBLERS VOLUME APPROPRIATE TO SOIL CONDITIONS.
5. SEE LANDSCAPE DEMOLITION SCHEMATIC FOR REMOVAL OF PLANTING AND IRRIGATION.

0 40 80 160

SCALE : 1" = 80'-0"

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telephone [619] 236-1462 facsimile [619] 236-8792
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Lic. CA 2138, NV 219, AZ 34139

NORTH

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SAN DIEGO UNIFIED SCHOOL DISTRICT

PREPARED FOR
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SAN DIEGO UNIFIED SCHOOL DISTRICT
SAN DIEGO, CALIFORNIA

PREPARED BY
ZAGRODNIK + THOMAS ARCHITECTS, LLP

Landscape Repair Schematic
Mira Mesa HS

FACILITIES MANAGEMENT

Solar Power Generation Systems

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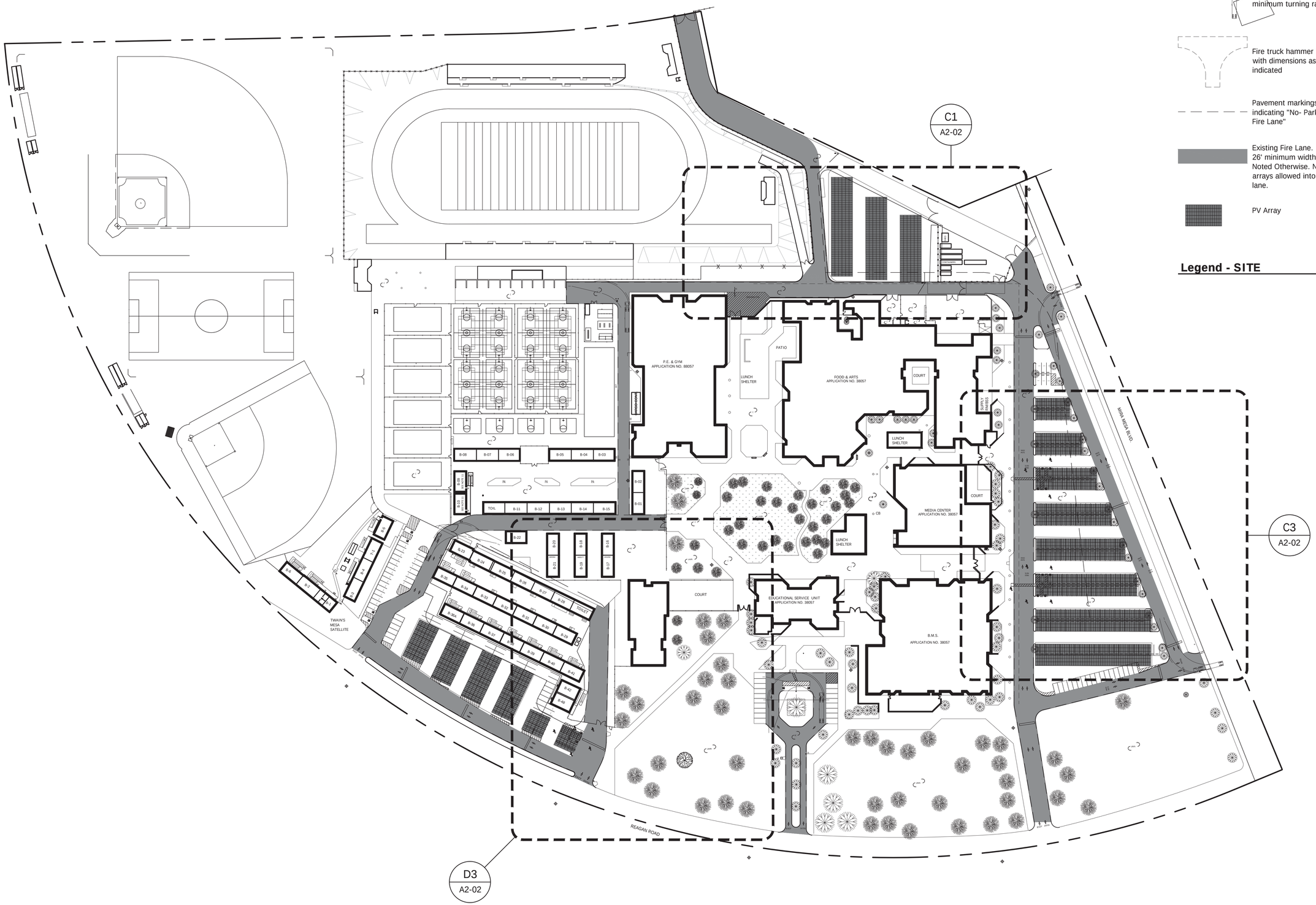

55' long truck with 50' minimum turning radius

Fire truck hammer head with dimensions as indicated

Pavement markings indicating "No- Parking Fire Lane"

Existing Fire Lane. 26' minimum width Unless Noted Otherwise. No PV arrays allowed into fire lane.

PV Array

Legend - SITE

D3 Mira Mesa HS Site Plan

1" = 80'-0"

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OTHER	DATE
OTHER	DATE

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PREPARED FOR
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SAN DIEGO UNIFIED SCHOOL DISTRICT
SAN DIEGO, CALIFORNIA

PREPARED BY
ZAGRODNIK + THOMAS ARCHITECTS, LLP

Mira Mesa High School
Site Plan

FACILITIES MANAGEMENT
Solar Power Generation Systems

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December 15, 2015

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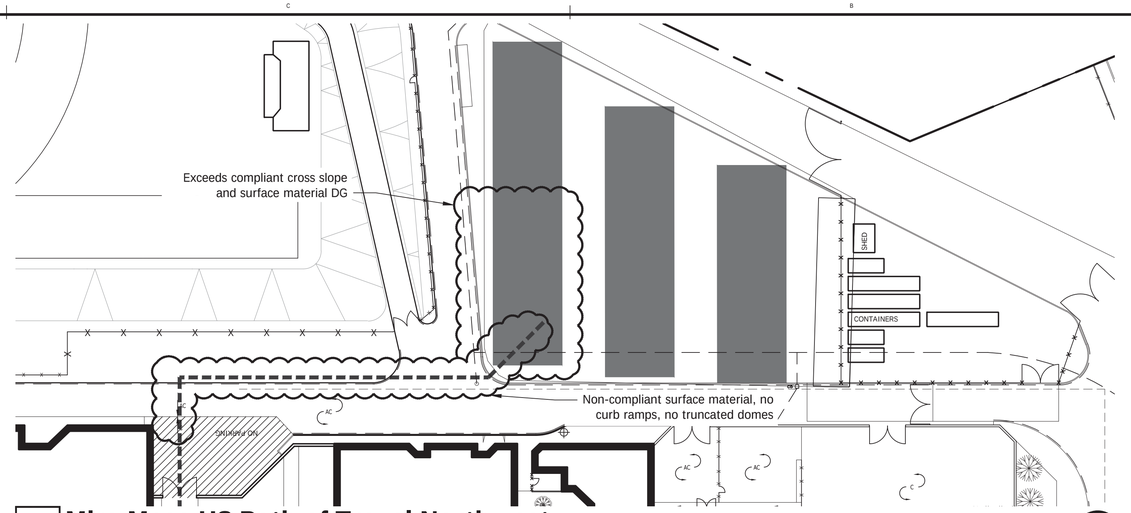
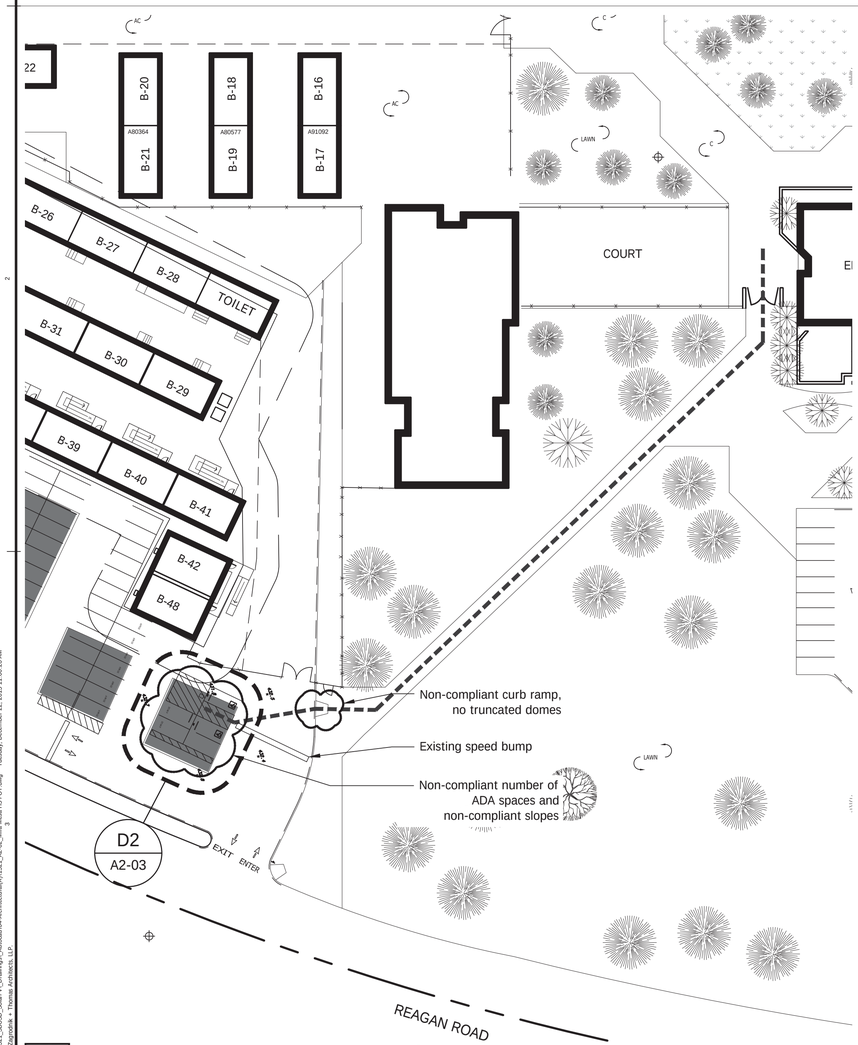


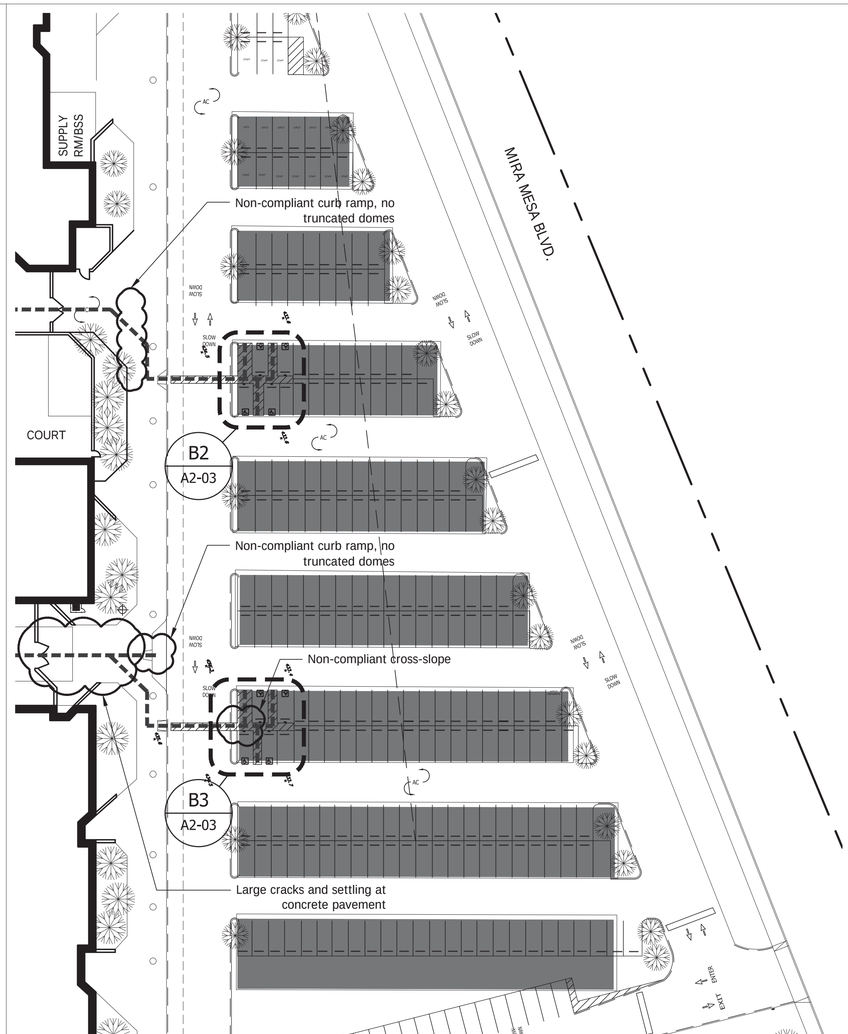
C1 Mira Mesa HS Path of Travel Northwest

1" = 40'-0"



D3 Mira Mesa HS Path of Travel Southeast

1" = 40'-0"



C3 Mira Mesa HS Path of Travel North

1" = 40'-0"

Non-Compliant Areas

PV Array Footprint

POTENTIAL PATH OF TRAVEL TO PROJECT LOCATION

"Path of travel (POT) as indicated shall be a barrier free accessible route without any abrupt level changes exceeding 1/2" beveled at a slope not steeper than 1:2, except that level changes are $\frac{1}{4}$" maximum vertical and is at least 48" wide. Surface shall be stable, firm and slip resistant. Cross-slope shall not be steeper than 1:48 and running slope shall not be steeper than 1:20 unless otherwise indicated (CBC Section 11B-403.3). POT shall be maintained free of overhanging obstructions to 80" minimum (CBC Section 11B-307.4) and protruding objects greater than 4" projection from wall surface between 27" and 80" above finish floor or ground (CBC Section 11B-307.2). Provide flush transitions at any adjoining joints between new and existing (E) walk surfaces in POT. Architect to verify that there are no barriers in the POT and all POT comply with CBC Section 11B-206.

Accessible routes shall coincide with or be located in the same area as general circulation paths. Where more than one route is provided, all routes must be accessible (CBC Sections 11B-206.3 and 11B-206.2.1).

Ramps shall have running slopes of not more than 1:12 (8.33%) with cross slopes not steeper than 1:48 (2.08%). Clear widths of ramp runs shall be 48" minimum. Landings with cross slopes no steeper than 1:48 shall be provided at tops, bottoms and every 30" of rise. Landing clear widths are at least as wide as the widest ramp run leading to the landing with clear lengths at least 60" long and bottom landings extending 72" minimum in the direction of ramp run. Ramps that change direction between runs at landings shall have clear dimensions of 60" minimum by 72" minimum in the direction of downward travel from the upper ramp. Ramps shall have 4" tall curbs as edge protection.

Handrails at stairs and ramps shall have gripping surfaces with circular cross-sections having outside diameters not less than 1-1/4" or greater than 2" diameter and not closer than 1-1/2" to adjacent surfaces where they occur. Handrails at tops and bottoms of ramps shall extend horizontally for 12" minimum beyond runs. Handrails at tops of stairs shall extend 12" minimum beginning directly above the first riser nosing. Handrails at bottoms of stairs shall extend at the slope of the stair flight for a horizontal distance equal to one tread depth beyond the last riser nosing plus 12" minimum horizontal.

Openings in gratings or strainers located in pedestrian ways or in POT shall not allow passage of a sphere more than $\frac{1}{2}$" diameter. Elongated openings shall be placed so that long dimension is perpendicular to the dominant direction of travel in compliance with CBC Section 11B-302.3.

All landscape edges along all POTs in the project scope shall comply with accessibility requirement of $\frac{1}{4}$" maximum level change.

All existing curb ramps in POT shall be field verified and altered as required to have no lip, but flush transition at the bottom of the ramps.

A3 Legend - PATH OF TRAVEL

1521_A2-02_Mira Mesa HS POT.dwg

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OTHER	DATE

CONSULTANT

ARCHITECT

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PREPARED FOR

BOARD OF EDUCATION
SAN DIEGO UNIFIED SCHOOL DISTRICT
SAN DIEGO, CALIFORNIA

PREPARED BY

ZAGRODNIK + THOMAS ARCHITECTS, LLP

Mira Mesa High School
Path of Travel

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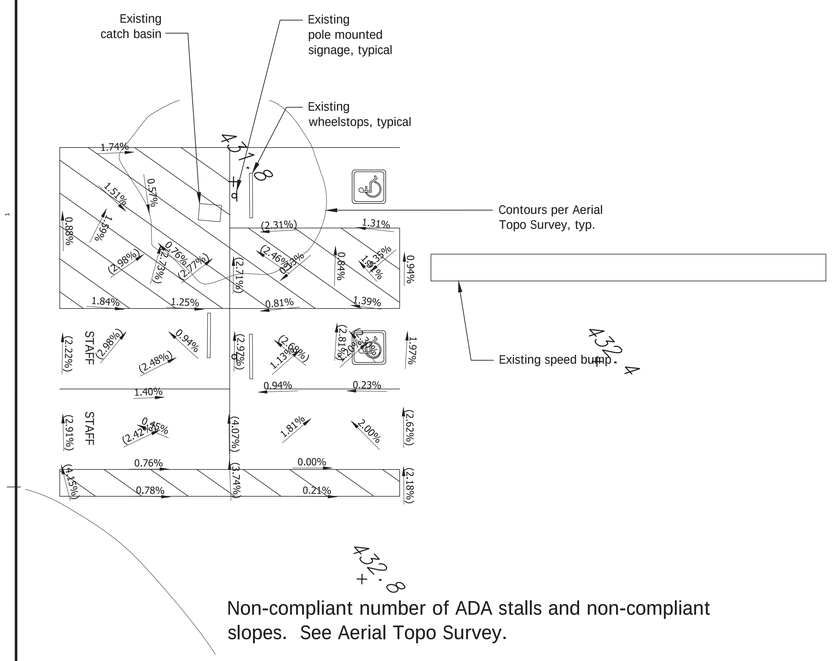
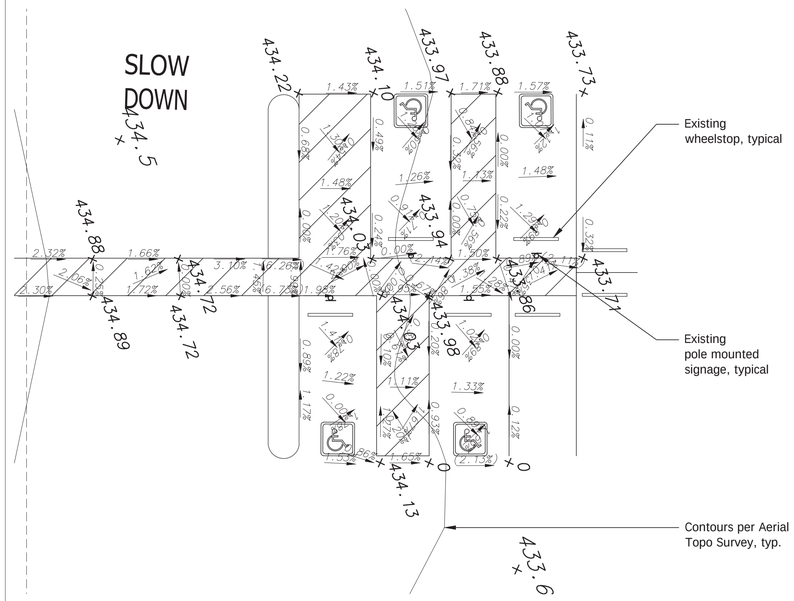


Non-compliant number of ADA stalls and non-compliant slopes. See Aerial Topo Survey.

See Aerial Topo Survey for more information.

D2 Mira Mesa HS Enlarged Parking Plan - South

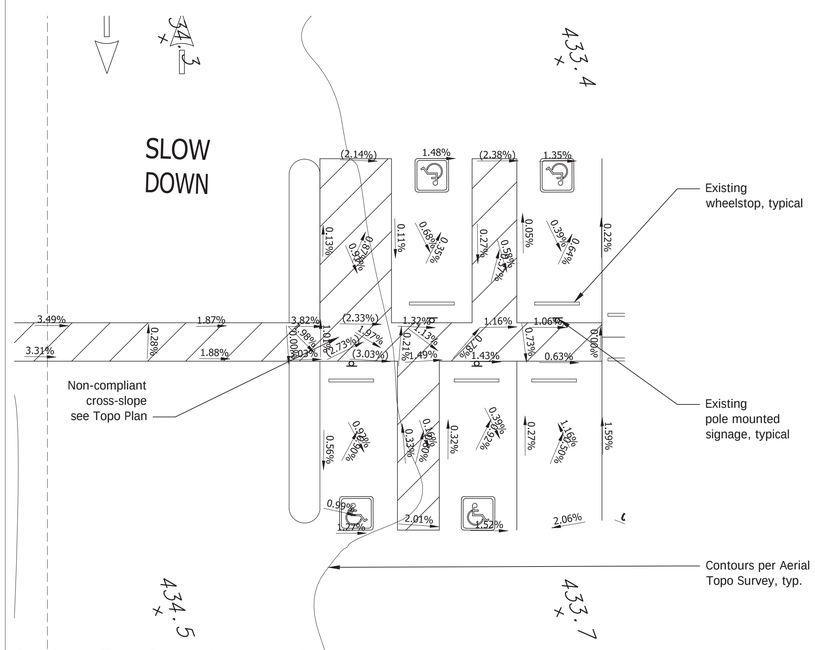
1/8" = 1'-0"



See Aerial Topo Survey for more information.

B2 Mira Mesa HS Enlarged Parking Plan - West

1/8" = 1'-0"



See Aerial Topo Survey for more information.

B3 Mira Mesa HS Enlarged Parking Plan - East

1/8" = 1'-0"

ACCESSIBLE PARKING NOTES

Accessible parking shall comply with the requirements of the CBC. Required elements include but are not limited to:

1. Minimum number of required accessible parking stalls - standard and van size
2. Access aisle/ loading zone size and pavement marking
3. Maximum slope of 2% at all direction
4. Accessible surface material
5. Minimum vertical clearance
6. International Symbol of Accessibility at stall marking and signage
7. Pole mounted panel signage at each stall and parking lot entrance
8. Compliant curb ramps
9. Truncated domes/ detectable warning tile
10. Wheel stops
11. Arrangement of parking spaces and access aisles so that persons using them are not required to travel behind parking spaces other than to pass behind their car.
12. Accessible Aisles shall adjoin an accessible route/path of travel.

DSA IR 11B-9

December 12, 2013

Accessibility Requirements for Solar Photovoltaic Systems at School Sites

Attachment A

Table 1 – Accessibility Guidelines for PV Systems over Existing Parking

Project Type	Parking Currently Accessible?[22]	Proposed Solar Photovoltaic (PV) Installation Project	
		Initial Scope of PV Work	Required Accessibility Work
6.2A	Yes	**Parking Fully Covered** - PV system over all existing standard and accessible parking.	Verify compliance of existing elements and accessible route to facilty served by the parking. If current accessibility requirements met, no further access work required.
	No	**Parking Fully Covered** - PV system over all existing standard parking and code compliant location for accessible parking.	Upgrades for accessible parking and accessible route from the parking in compliance with current requirements.
6.2B	Yes	**Standard Parking Covered, Accessible Parking Not Covered -** PV system covers all standard parking, location of existing accessible parking not suitable for solar panels.	Shade cover over all existing accessible parking;[23]
	No	**Standard Parking Covered, Location for Accessible Parking Not Covered -** PV system covers all standard parking, code compliant location for accessible parking not suitable for solar panels.	Accessible parking under a shade cover with an accessible route from that parking to the facility;
6.2C	Yes	**Standard Parking Partially Covered, Accessible Parking Fully Covered** -- PV system covers existing accessible parking and a portion of existing standard spaces.	Verify compliance of existing elements and accessible route to facility. If current accessibility requirements met, no further access work required.
	No	**Standard Parking Partially Covered, Location for Accessible Parking Fully Covered -** PV system covers code compliant location for accessible parking and a portion of existing standard parking.	Upgrades for accessible parking and accessible route to facility in compliance with current requirements. Dispersion of accessible parking to uncovered area not required.

Table 2 – Accessibility Guidelines for PV systems over New Parking

Project Type	Proposed Solar PV Installation.		
	Description	Initial Scope of Project	Required Accessibility Work
6.3D	New on-grade parking lot with PV system as part of larger project or as a separate concurrent project.	**Parking Fully Covered** - PV system over both standard and accessible parking, all parking covered.	Accessible parking spaces under PV system elevated components.
6.3E	New on-grade parking lot with PV system as part of larger project or as a separate concurrent project.	**Parking Partially Covered** - PV system over both standard and accessible parking, not all parking covered.	All accessible parking spaces under PV system elevated components, based on total number of covered and uncovered parking spaces[24] or Pro-rata shares of accessible parking under the PV system elevated components and in the uncovered area, based upon the number of spaces within each area; or Shade cover over pro-rata share of new accessible parking in lieu of new accessible parking under the PV system elevated components.

[22] Existing parking is accessible when it meets both scoping and technical requirements within the code, see 6.1 Required Elements for Accessible Parking.

[23] When existing accessible parking will not be under the solar PV system elevated components, covered accessible parking could be provided as equivalent facilitation by a shade structure over the existing accessible spaces.

[24] If the full number of required accessible spaces can be located under the solar PV array and they are located closest to the facility on the shortest accessible route, under the principle of equivalent facilitation the provision of uncovered accessible spaces shall not be required.

A3 ACCESSIBLE PARKING REQUIREMENTS

1521_A2-03_Mira Mesa HS Enl Pkg.dwg

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SAN DIEGO, CALIFORNIA

PREPARED BY
ZAGRODNIK + THOMAS ARCHITECTS, LLP

Mira Mesa High School
Enlarged Parking Plan

FACILITIES MANAGEMENT
Solar Power Generation Systems

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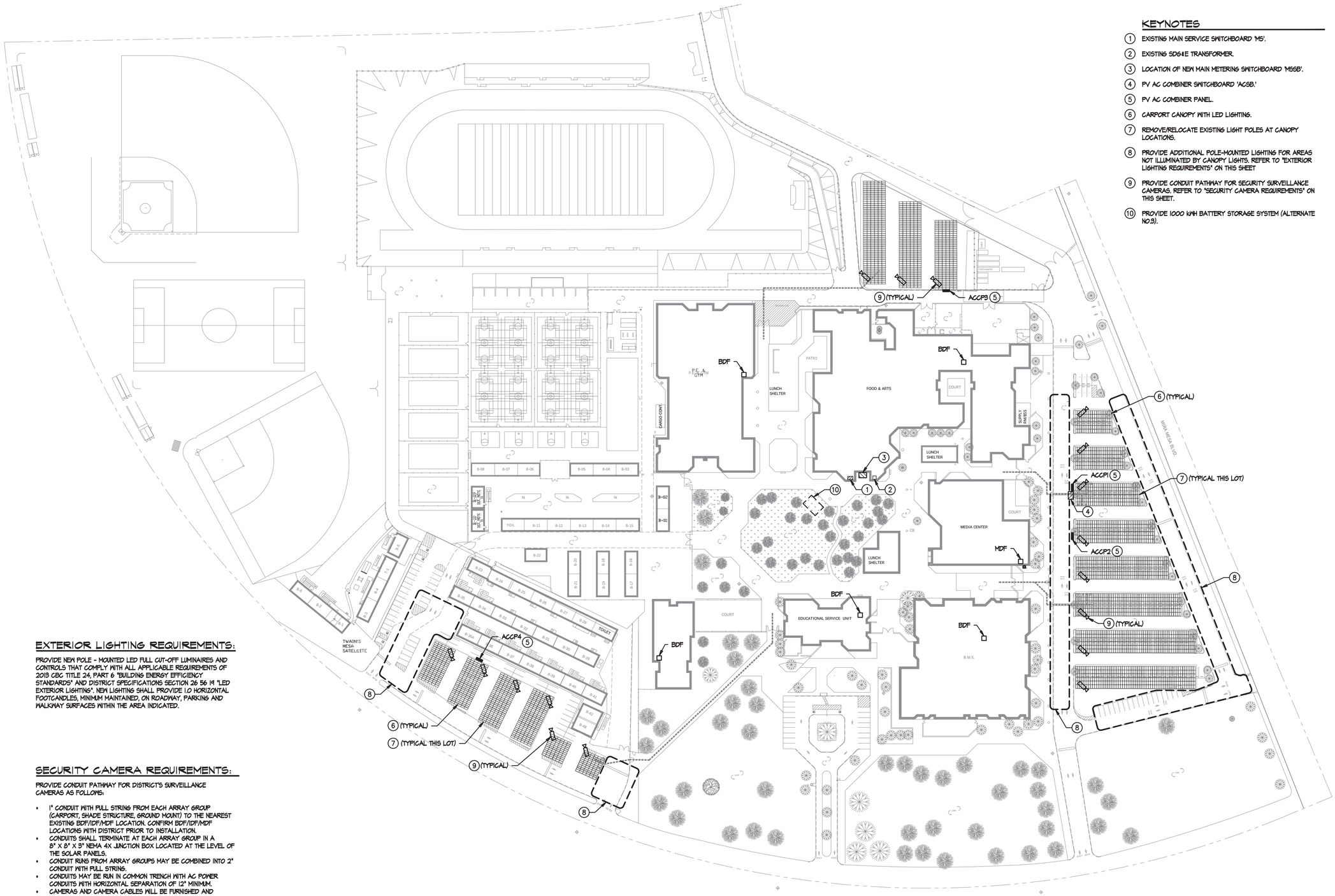

KEYNOTES

1. EXISTING MAIN SERVICE SWITCHBOARD 'MS'.
2. EXISTING SDG&E TRANSFORMER.
3. LOCATION OF NEW MAIN METERING SWITCHBOARD 'MSSB'.
4. PV AC COMBINER SWITCHBOARD 'ACSB.'
5. PV AC COMBINER PANEL.
6. CARPORT CANOPY WITH LED LIGHTING.
7. REMOVE/RELOCATE EXISTING LIGHT POLES AT CANOPY LOCATIONS.
8. PROVIDE ADDITIONAL POLE-MOUNTED LIGHTING FOR AREAS NOT ILLUMINATED BY CANOPY LIGHTS. REFER TO "EXTERIOR LIGHTING REQUIREMENTS" ON THIS SHEET
9. PROVIDE CONDUIT PATHWAY FOR SECURITY SURVEILLANCE CAMERAS. REFER TO "SECURITY CAMERA REQUIREMENTS" ON THIS SHEET.
10. PROVIDE 1000 KWH BATTERY STORAGE SYSTEM (ALTERNATE NO.3).

EXTERIOR LIGHTING REQUIREMENTS:

PROVIDE NEW POLE - MOUNTED LED FULL CUT-OFF LUMINAIRES AND CONTROLS THAT COMPLY WITH ALL APPLICABLE REQUIREMENTS OF 2013 CBC TITLE 24, PART 6 "BUILDING ENERGY EFFICIENCY STANDARDS" AND DISTRICT SPECIFICATIONS SECTION 26 56 19 "LED EXTERIOR LIGHTING". NEW LIGHTING SHALL PROVIDE 1.0 HORIZONTAL FOOTCANDLES, MINIMUM MAINTAINED, ON ROADWAY, PARKING AND WALKWAY SURFACES WITHIN THE AREA INDICATED.

SECURITY CAMERA REQUIREMENTS:

PROVIDE CONDUIT PATHWAY FOR DISTRICT'S SURVEILLANCE CAMERAS AS FOLLOWS:

- 1" CONDUIT WITH PULL STRING FROM EACH ARRAY GROUP (CARPORT, SHADE STRUCTURE, GROUND MOUNT) TO THE NEAREST EXISTING BDF/IDF/MDF LOCATION. CONFIRM BDF/IDF/MDF LOCATIONS WITH DISTRICT PRIOR TO INSTALLATION.
- CONDUITS SHALL TERMINATE AT EACH ARRAY GROUP IN A 8" X 8" X 3" NEMA 4X JUNCTION BOX LOCATED AT THE LEVEL OF THE SOLAR PANELS.
- CONDUIT RUNS FROM ARRAY GROUPS MAY BE COMBINED INTO 2" CONDUIT WITH PULL STRING.
- CONDUITS MAY BE RUN IN COMMON TRENCH WITH AC POWER CONDUITS WITH HORIZONTAL SEPARATION OF 12" MINIMUM.
- CAMERAS AND CAMERA CABLES WILL BE FURNISHED AND INSTALLED BY THE DISTRICT.

MIRA MESA HS - ELECTRICAL SITE PLAN

SCALE: 1" = 80'-0"

NORTH

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1

REGISTERED PROFESSIONAL ENGINEER
DALE M. FRANCHK
No.11533
exp. 6/30/2016
ELECTRICAL
STATE OF CALIFORNIA
12-15-2015
CONSULTANT

LICENSED ARCHITECT
SCOTT W. THOMAS
C-22787
REN. 6-30-17
STATE OF CALIFORNIA
ARCHITECT

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SAN DIEGO, CALIFORNIA

PREPARED BY
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MIRA MESA HS - ELECTRICAL SITE PLAN

FACILITIES MANAGEMENT
Solar Power Generation Systems

December 15, 2015

TURPIN & RATTAN
ENGINEERING, INC.
CONSULTING ENGINEERS
4719 PALM AVENUE
LA MESA, CA 91941-5221
619 / 466 / 6224 FAX 466 / 6233
E-MAIL: ENGINEER@TREISD.COM

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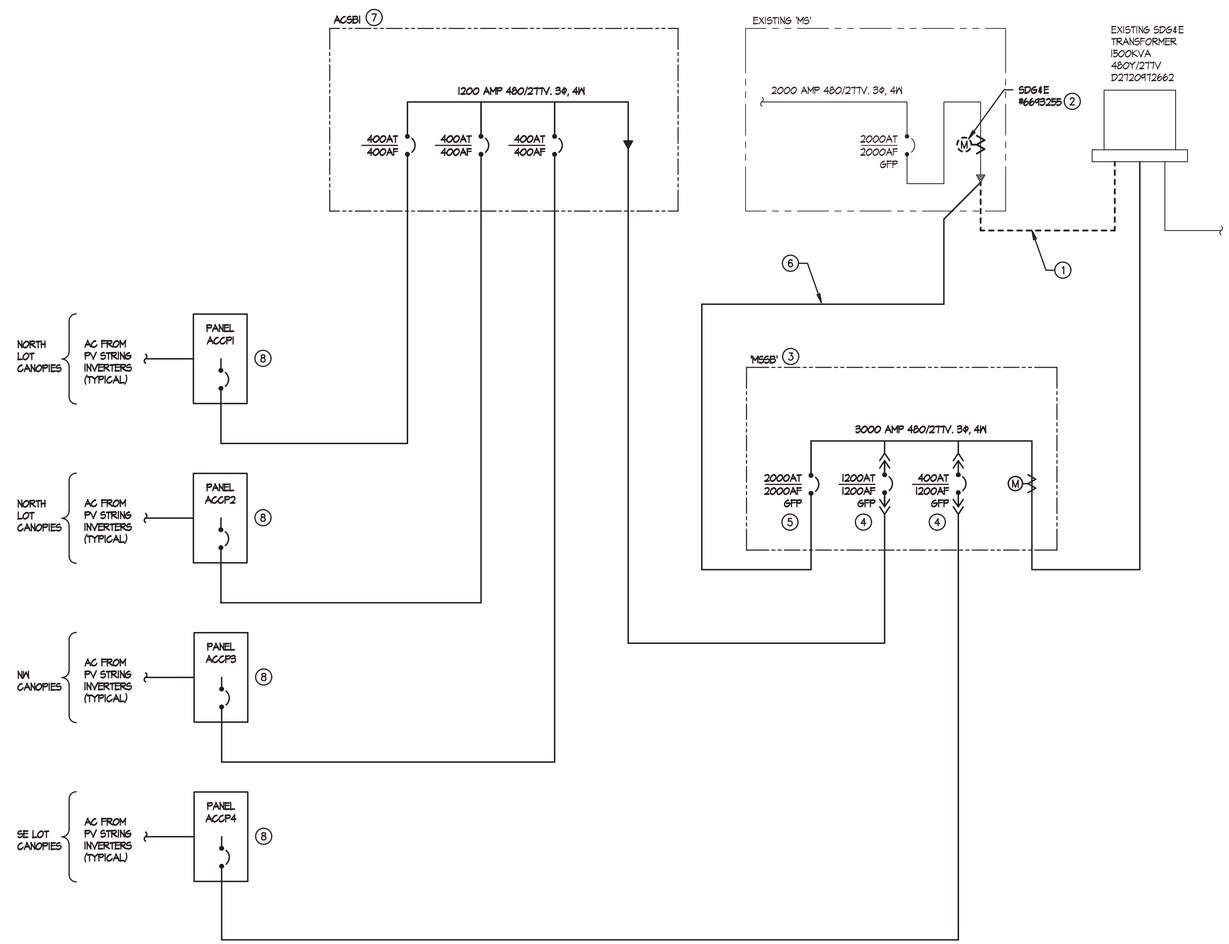
-	E2-01

DIAGRAM NOTES

1. REMOVE EXISTING SERVICE LATERAL.
2. RELOCATE EXISTING METERING TO 'MSSB'.
3. SERVICE AND METERING SWITCHBOARD, NEMA 3R.
4. PV FEEDER BREAKERS. DRAW-OUT TYPE FOR POSITIVE UTILITY DISCONNECT.
5. CAMPUS FEEDER BREAKER.
6. FEEDER TO EXISTING CAMPUS SWITCHBOARD.
7. PV AC COMBINER SWITCHBOARD, NEMA 3R.
8. PV AC COMBINER PANELBOARD, NEMA 3R.



MIRA MESA HS - SINGLE LINE DIAGRAM

NO SCALE

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CONSULTING ENGINEERS
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LA MESA, CA 91941-5221
619 / 466 / 6224 FAX 466 / 6233
E-MAIL: ENGINEER@TREISD.COM

PROJECT # 15366

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REVISED	BY	DATE
DISTRICT ARCHITECT	OTHER	DATE
ASSISTANT DISTRICT ARCHITECT	OTHER	DATE
SITE ADMINISTRATOR	OTHER	DATE
OTHER	OTHER	DATE
OTHER	OTHER	DATE

REGISTERED PROFESSIONAL ENGINEER
DALE M. FRANCHAK
No.11533
exp.6/30/2016
ELECTRICAL
STATE OF CALIFORNIA
12-15-2015
CONSULTANT

LICENSED ARCHITECT
SCOTT W. THOMAS
C-22787
REN. 6-30-17
STATE OF CALIFORNIA
ARCHITECT

SAN DIEGO UNIFIED SCHOOL DISTRICT

PREPARED FOR
BOARD OF EDUCATION
SAN DIEGO UNIFIED SCHOOL DISTRICT
SAN DIEGO, CALIFORNIA

PREPARED BY
ZAGRODNIK + THOMAS ARCHITECTS, LLP

MIRA MESA HS - SINGLE LINE DIAGRAM

FACILITIES MANAGEMENT
Solar Power Generation Systems

SUBMITTAL:	PROJECT NO.
00 Submittal	DATE 12/15/2015
	DRAWN
	CHECKED
REVISIONS	SHEET NO.
-	E2-02

December 15, 2015