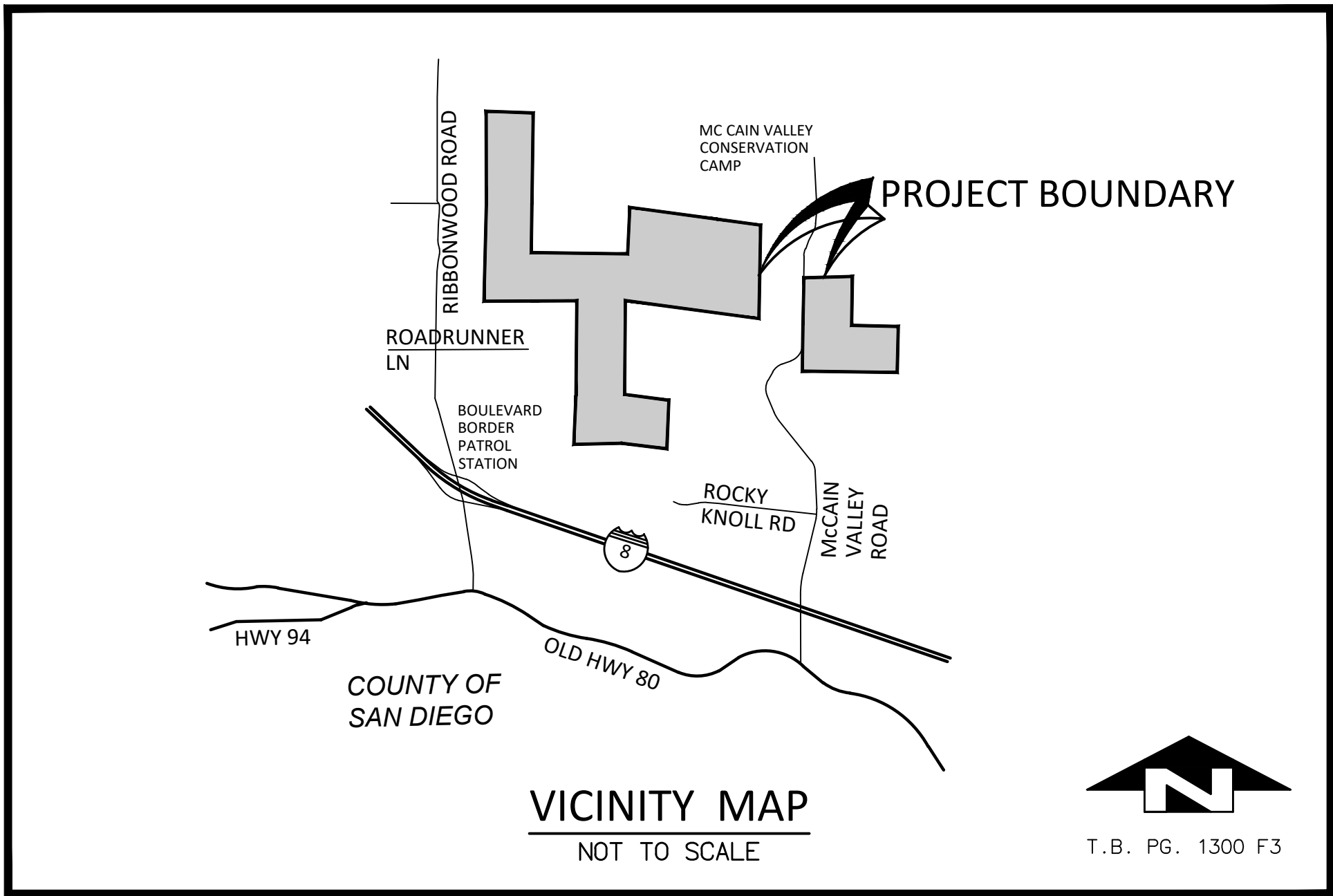


RUGGED SOLAR

COUNTY OF SAN DIEGO, CA

PRELIMINARY GRADING PLAN



SOURCE OF TOPOGRAPHY

THE BASIS OF EXISTING CONTOURS WAS PROVIDED IN A DIGITAL TERRAIN MODEL (DTM) TIED TO THE CG883 GRID. THE DTM CREATED IN CONJUNCTION WITH AN AERIAL TOPOGRAPHICAL SURVEY AT 20-SCALE 2 FOOT CONTOUR INTERVALS PERFORMED JANUARY 2012 & AUGUST 2019. FLOWN TOPOGRAPHY BY PROJECT DESIGN CONSULTANTS PHOTOGRAMMETRY DEPARTMENT DATE: 4/17/2009.

EARTHWORK

CUT: 75,000 CUBIC YARDS
FILL: 75,000 CUBIC YARDS
IMPORT: 0.0 CUBIC YARDS
EXPORT: 0.0 CUBIC YARDS

NOTE:

- QUANTITIES SHOWN ASSUMED 6" UNDERCUTS FOR DIGRAVEL ROADS AND PARKING AREAS, 12" UNDERCUTS FOR O&M BUILDING AND INVERTER PADS AND 12" UNDERCUTS FOR CONCRETE ACCESS ROADS.
- QUANTITIES SHOWN ARE RAW VALUES ONLY, SUBJECT TO CHANGE DUE TO SHRINKAGE OR BULKING FACTORS AND ACTUAL FOUNDATION/ROADWAY SECTIONS TO BE DETERMINED BY GEOTECHNICAL/STRUCTURAL ENGINEER AT FINAL DESIGN.
- QUANTITIES SHOWN DO NOT INCLUDE SITE PREPARATION/CLEAR AND GRUB OR UTILITY TRENCH SPOILS.
MAX CUT SLOPE HEIGHT: 14 FT.
MAX CUT SLOPE RATIO: 2:1
MAX FILL SLOPE HEIGHT: 7 FT.
MAX FILL SLOPE RATIO: 2:1
MAX VERTICAL DEPTH OF CUT: 32 FT.
MAX VERTICAL HEIGHT OF FILL: 8 FT.

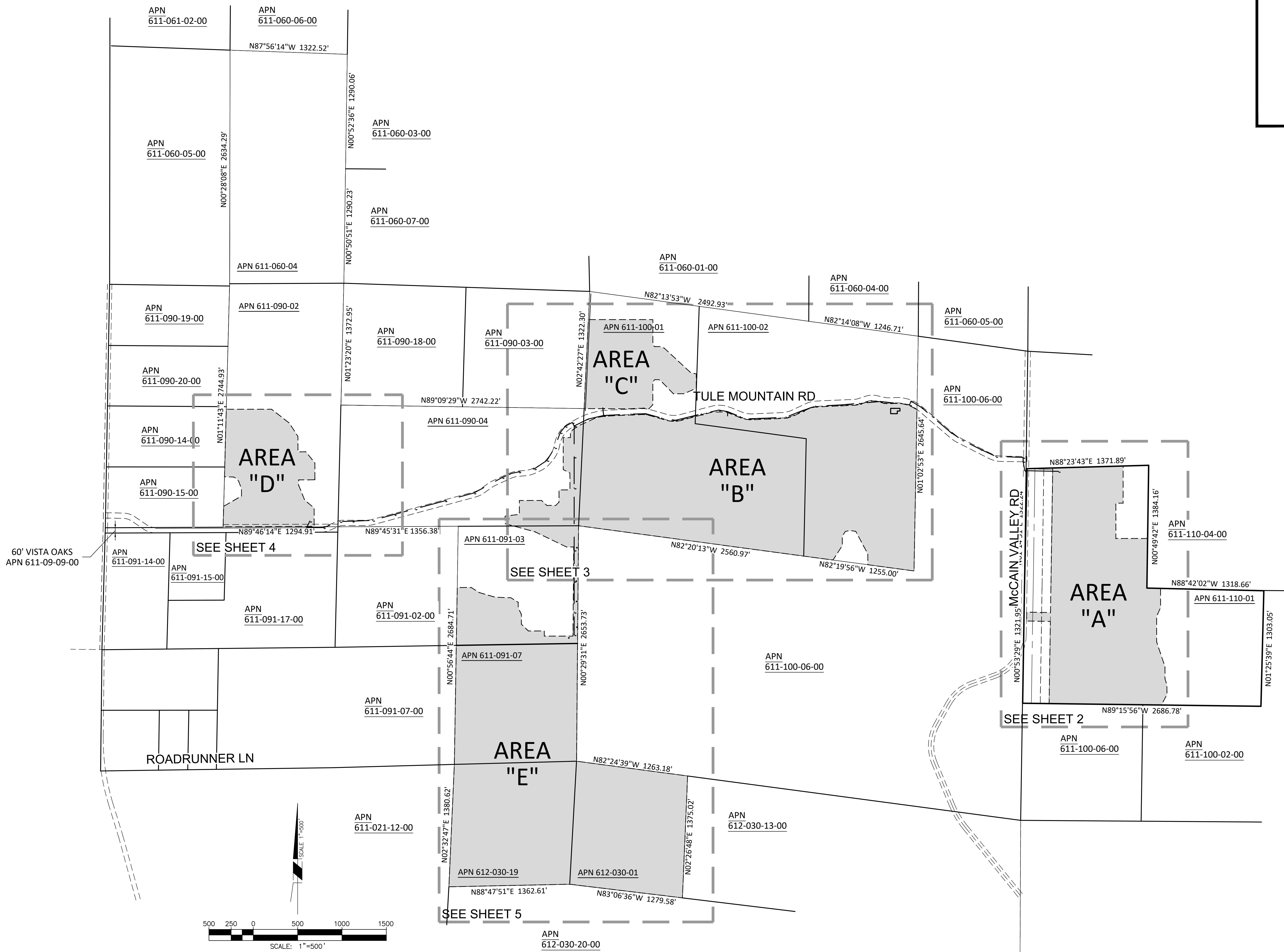
NOTICE

THE SUBJECT PROPERTY CONTAINS WETLANDS, A LAKE, A STREAM, AND/OR WATERS OF THE U.S. AND/OR STATE WHICH MAY BE SUBJECT TO REGULATION BY STATE AND/OR FEDERAL AGENCIES, INCLUDING, BUT NOT LIMITED TO, THE REGIONAL WATER QUALITY CONTROL BOARD, U.S. ARMY CORPS OF ENGINEERS AND THE CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE. IT IS THE APPLICANT'S RESPONSIBILITY TO CONSULT WITH EACH AGENCY TO DETERMINE IF A PERMIT, AGREEMENT OR OTHER APPROVAL IS REQUIRED AND TO OBTAIN ALL NECESSARY PERMITS, AGREEMENTS OR APPROVALS BEFORE COMMENCING ANY ACTIVITY WHICH COULD IMPACT THE WETLANDS, LAKE, STREAM, AND/OR WATERS OF THE U.S. ON THE SUBJECT PROPERTY. THE AGENCY CONTACT INFORMATION IS PROVIDED BELOW.

U.S. ARMY CORPS OF ENGINEERS
915 WILSHIRE BLVD., SUITE 1101,
LOS ANGELES, CA 90017
(213) 452-3333
HTTP://WWW.USACE.ARMY.MIL/

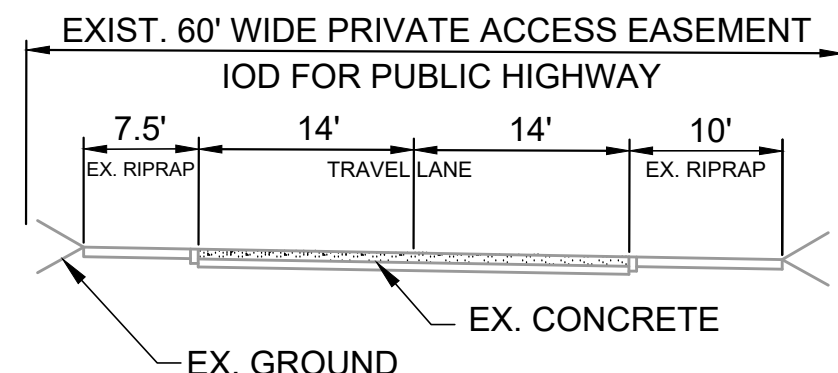
REGIONAL WATER QUALITY CONTROL BOARD
2375 NORTHSIDE DR., SUITE 100
SAN DIEGO, CA 92108
R89.DREDFEILL@WATERBOARDS.CA.GOV
HTTP://WWW.WATERBOARDS.CA.GOV/SANDIEGO/

CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE
3983 RUFFIN RD.,
SAN DIEGO, CA 92123
(858) 636-3160
ASKRS@WILDLIFE.CA.GOV
HTTP://WWW.WILDLIFE.CA.GOV/

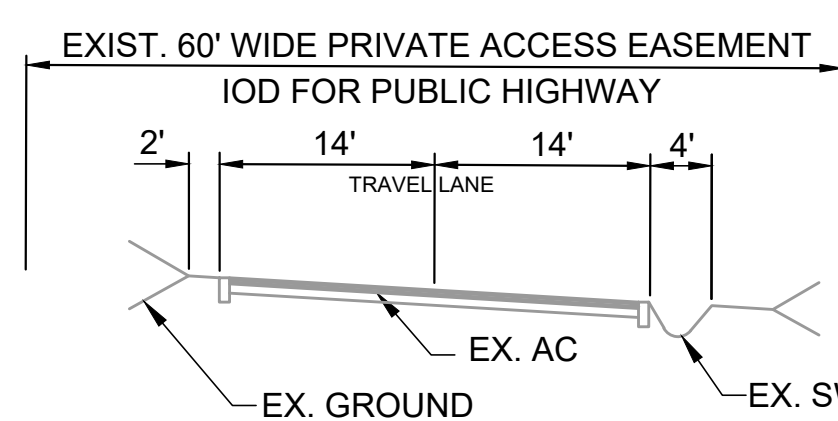


PROJECT BOUNDARY / SHEET INDEX MAP

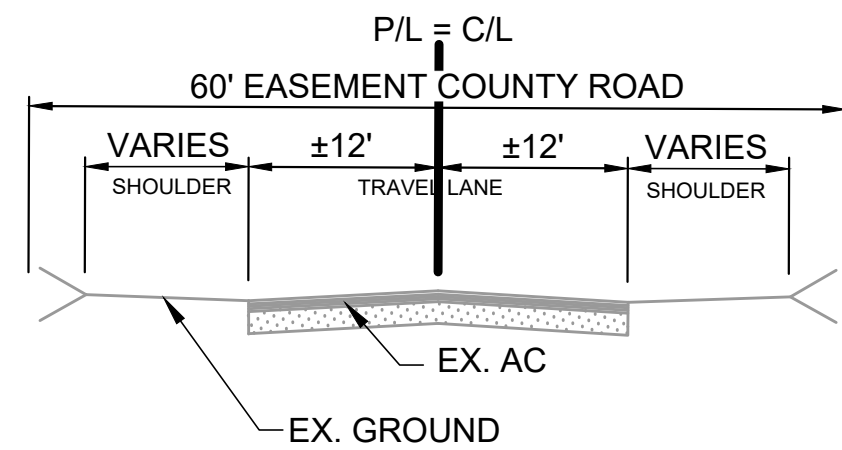
SCALE: 1"=500'



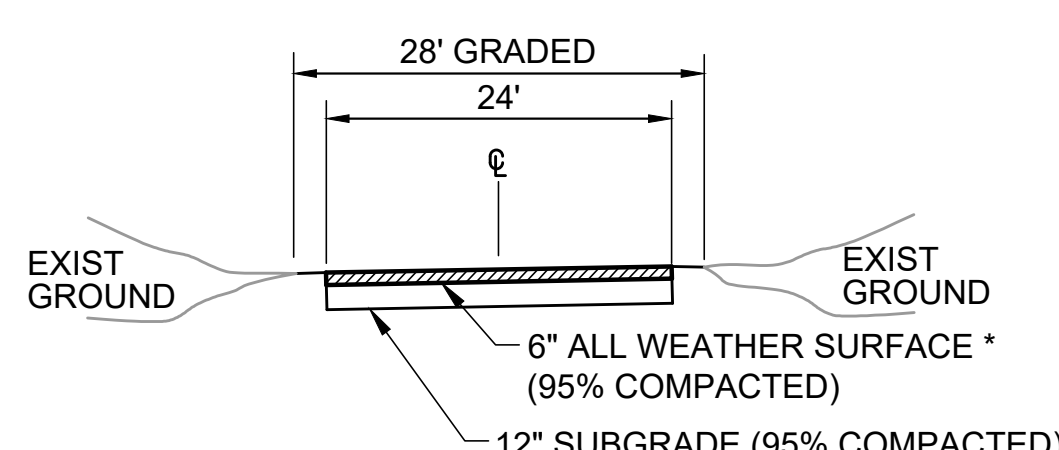
ROAD @ WATER CROSSINGS



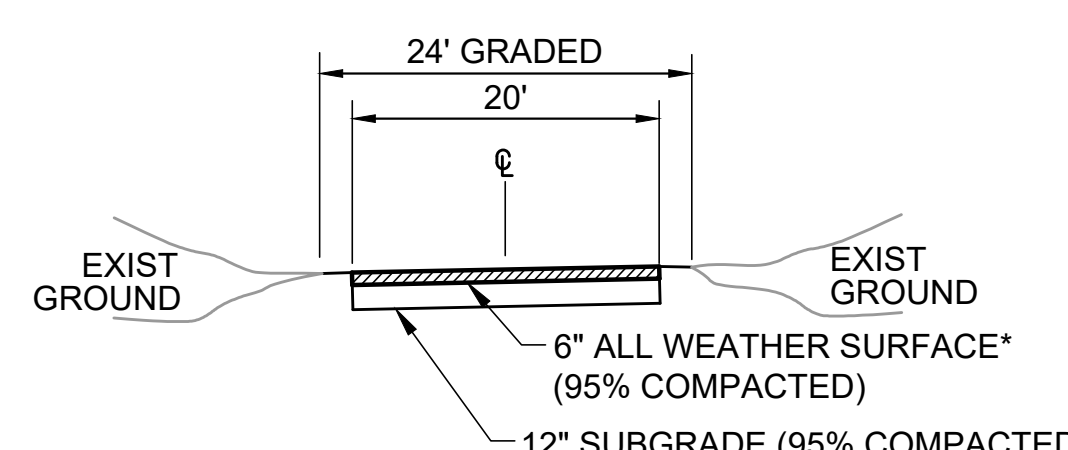
TYPICAL SECTION
EX. TULE MOUNTAIN ROAD
NOT TO SCALE



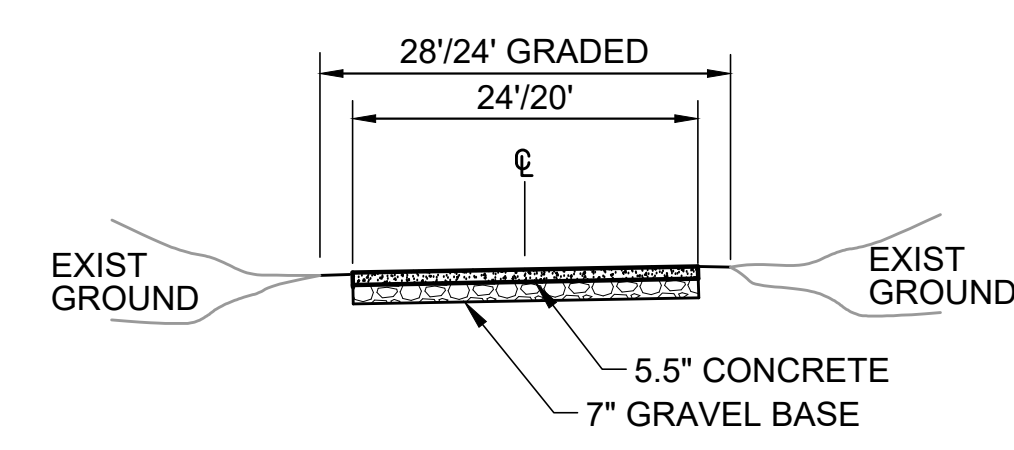
TYPICAL SECTION
EX. MCCAIN VALLEY ROAD
(CRS 658)
NOT TO SCALE



TYPICAL SECTION
24' PERIMETER ACCESS ROAD &
ARRAY CONNECTING ROADS
NOT TO SCALE
* ALL WEATHER, 75,000 lbs. FIRE APPARATUS
LOAD CAPACITY
NOTE: STRUCTURAL SECTIONS AS SHOWN ARE FOR PLANNING PURPOSES ONLY. GEOTECHNICAL ENGINEER TO PROVIDE CONSTRUCTION SPECIFICATIONS AT FINAL DESIGN.



TYPICAL SECTION
20' INTERNAL ARRAY
ACCESS ROAD
NOT TO SCALE
* ALL WEATHER, 75,000 lbs. FIRE
APPARATUS LOAD CAPACITY



TYPICAL SECTION
CONCRETE ACCESS ROAD
NOT TO SCALE
WITHIN 100-YR LIMITS OF INUNDATION

GENERAL NOTES

- THIS PLAN IS PROVIDED TO ALLOW FOR FULL AND ADEQUATE DISCRETIONARY REVIEW OF A PROPOSED DEVELOPMENT PROJECT. THE PROPERTY OWNER ACKNOWLEDGES THAT ACCEPTANCE OR APPROVAL OF THIS PLAN DOES NOT CONSTITUTE AN APPROVAL TO PERFORM ANY GRADING SHOWN HEREON AND AGREES TO OBTAIN VALID GRADING PERMISSION BEFORE COMMENCING SUCH ACTIVITY.
- THIS PROJECT MAY BE IMPLEMENTED IN MULTIPLE PHASES WITHOUT REGARD TO IMPLIED SEQUENCING.
- PROJECT BOUNDARY / MUP AREA: 763.35 ACRES
- SOLAR DEVELOPMENT AREA: 391.5 ACRES
- TOTAL DISTURBED AREA BEFORE PROJECT: 22.6 ACRES
- TOTAL DISTURBED (CLEARED AND GRUBBED) AREA AFTER PROJECT: 391.5 ACRES
- TOTAL IMPERVIOUS AREA BEFORE PROJECT: 8.1 ACRES (TULE MTN. RD. & MC CAIN VALLEY ROAD)
- TOTAL IMPERVIOUS AREA AFTER PROJECT: 11.3 ACRES
- TO MINIMIZE DUST, ALL DISTURBED AREAS WILL BE SURFACED WITH GRAVEL, DECOMPOSED GRANITE WITH BINDING AGENT OR EQUIVALENT.
- A PORTION OF THE SITE IS SUBJECT TO INUNDATION BY THE 100-YEAR FLOOD. THE 100-YEAR INUNDATION LIMITS ARE SHOWN ON THE PRELIMINARY GRADING PLAN.
- NO RETAINING WALLS ARE PROPOSED.
- MAX. GRADIENT OF ALL ACCESS ROADS NOT TO EXCEED 10%.

APPLICANT:

RUGGED SOLAR, LLC
150 MATHILDA PLACE
SUITE 1106
SUNNYVALE, CA 94086
CONTACT: JIM WHALEN
(619) 683-5544

PLANNER/ENGINEER

MICHAEL BAKER
INTERNATIONAL
STEVE WRAGG
9755 CLAIREMONT MESA BLVD.
SAN DIEGO, CA 92124
(858) 614-5000

SHEET INDEX

SHEET 1 - TITLE SHEET
SHEET 2 - AREA "A" GRADING PLAN
SHEET 3 - AREA "B" & "C" GRADING PLAN
SHEET 4 - AREA "D" GRADING PLAN
SHEET 5 - AREA "E" GRADING PLAN

RUGGED SOLAR
COUNTY OF SAN DIEGO, CA
PRELIMINARY GRADING PLAN
PDS 2017-MUP-12-007W1
PDS 2017-MUP-12-007TE
TITLE SHEET

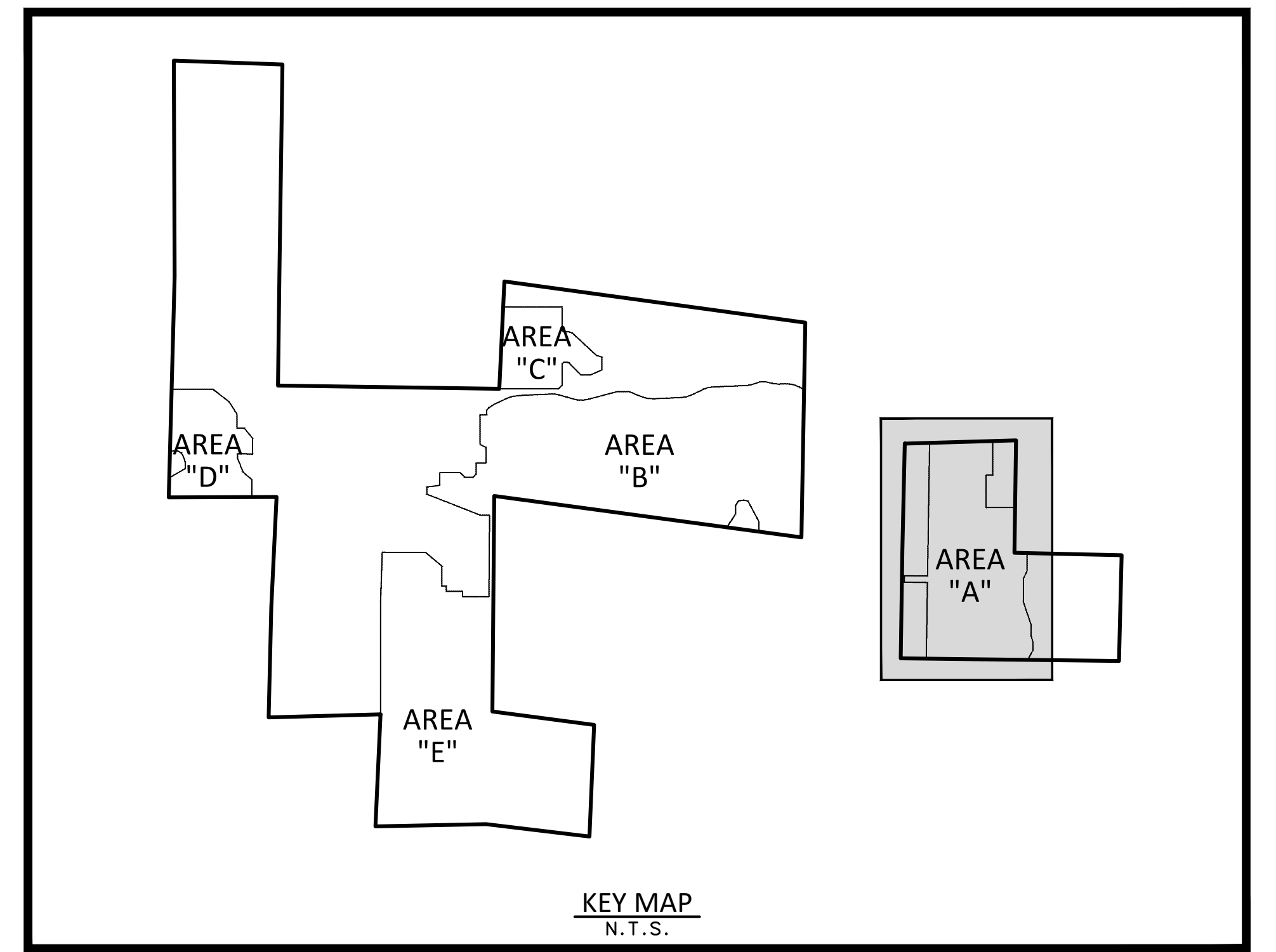
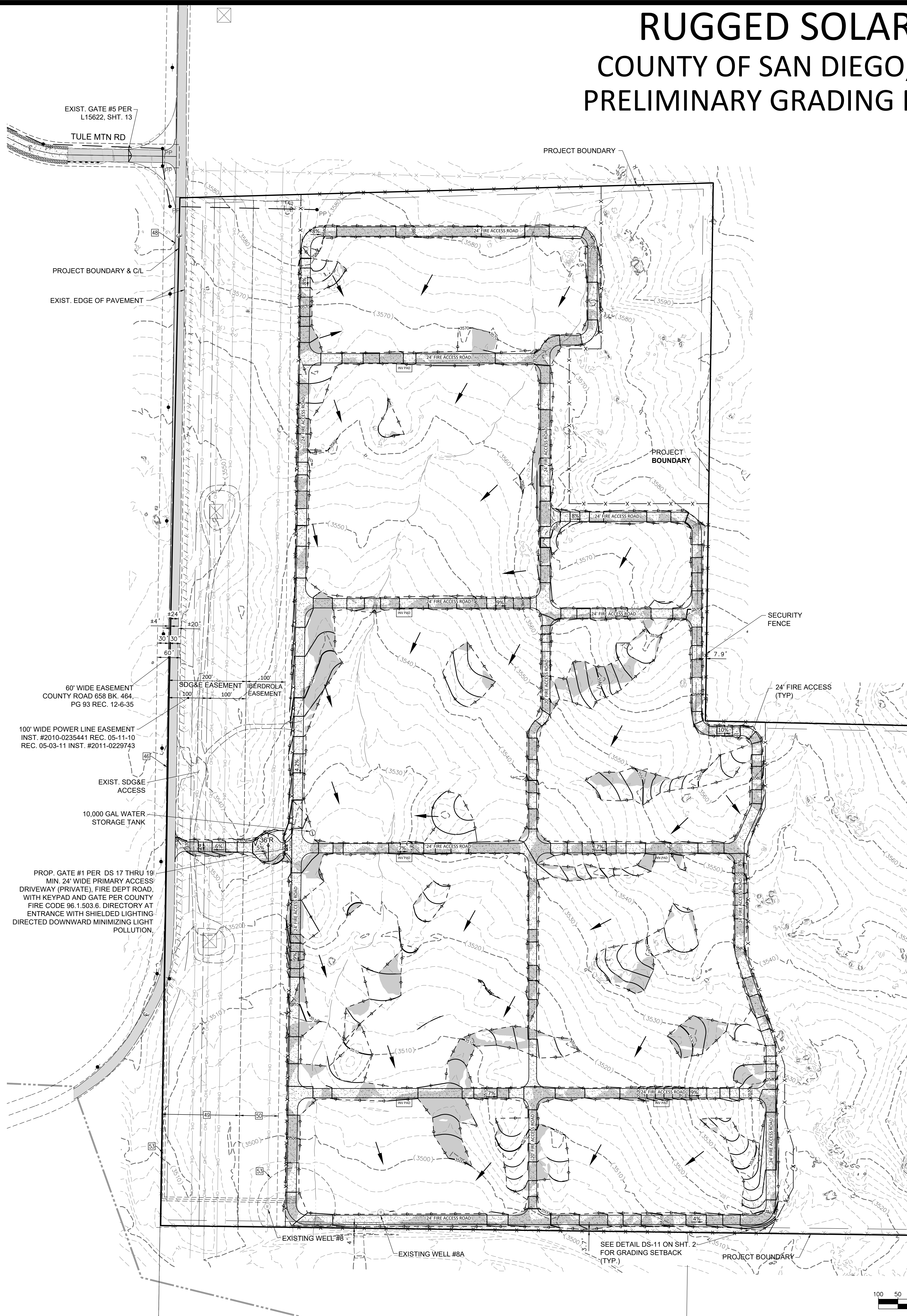
SHEET 1 OF 5
APRIL 13, 2022

Michael Baker
INTERNATIONAL
9755 Clairemont Mesa Blvd.
San Diego, CA 92124
Phone: (858) 614-5000
MBAKERINTL.COM

RUGGED SOLAR

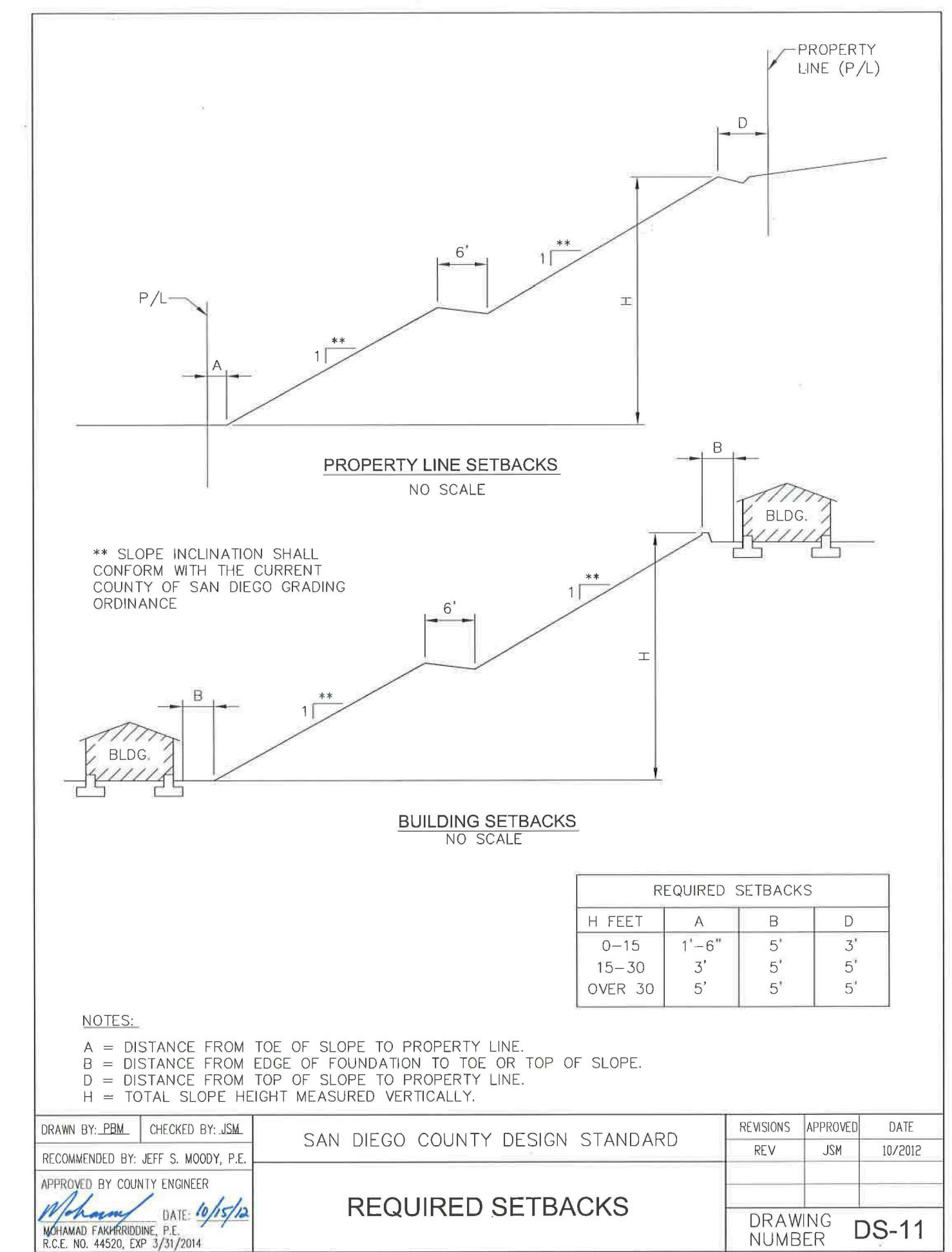
COUNTY OF SAN DIEGO, CA

PRELIMINARY GRADING PLAN



LEGEND:

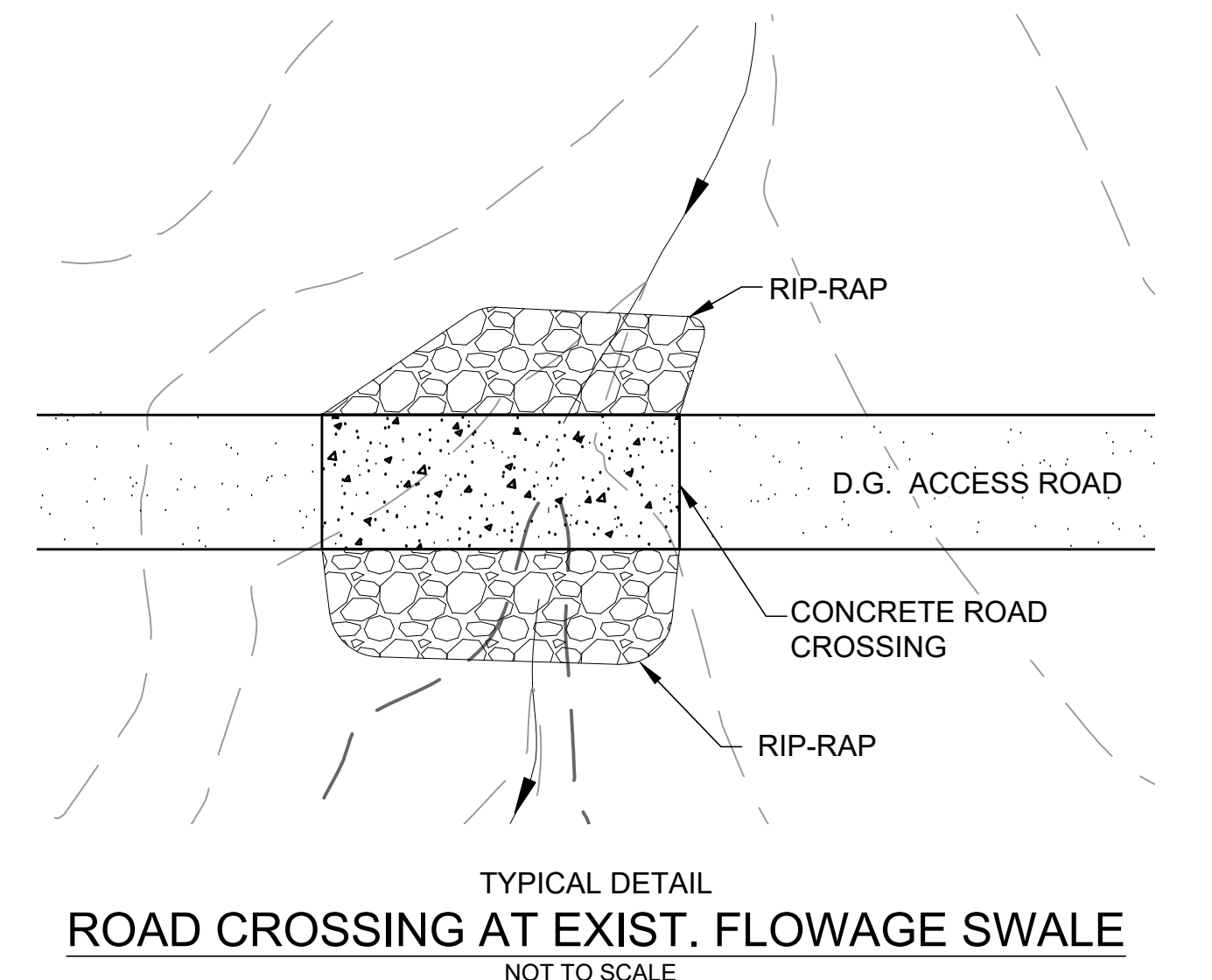
PROJECT BOUNDARY / MUP	---
APN PARCEL	---
EX. EASEMENT	---
SETBACK LINE	---
PROP. LIMITS OF DEVELOPMENT	---
PROP. GATE	---
PROP. ALL WEATHER SURFACE (SEE DETAIL ON SHEET 1)	---
PROP. CONCRETE SURFACE (SEE DETAIL ON SHEET 1)	---
EXIST. FENCE	---
PROP. SECURITY FENCE	---
DIRECTION OF FLOW	---
EXIST. PAVEMENT	---
EXIST. CONCRETE	---
EXIST. RIP-RAP	---
PROP. INVERTER PAD	---
100-YR LIMITS OF INUNDATION	---
EXIST. WATER WELL	---
EXIST. CONTOUR	---
PROP. CONTOUR	---
RELINQUISH ACCESS	---
EXIST. DRAINAGE FLOW	---
OAKS W/ 50' RPD BUFFER	---
PROP. FILL SLOPE	---



EXISTING EASEMENTS

NO.	DESCRIPTION	DISPOSITION	DOC. #
10	PUBLIC UTILITY EASEMENT - MT EMPIRE ELECTRIC CO.	TO REMAIN	INSTR. 46667, 3/11/1971
11	PUBLIC UTILITY EASEMENT - JAMES & WANDA FUQUAY	TO REMAIN	INSTR. 108066, 4/13/1976
12	PUBLIC UTILITY EASEMENT - YORK & TINA HEIMERDINGER	TO REMAIN	INSTR. 2002-068092, 8/16/2002
15	ROAD CONST. EASEMENT - MT EMPIRE ELECTRIC CO.	TO REMAIN	INSTR. 2012-0031562, 1/19/2012
16	INGRESS AND EGRESS - ROUGH ACRES WATER CO.	TO REMAIN	INSTR. 2013-0208248, 4/03/2013
17	GRANT OF EASEMENT	TO REMAIN	INSTR. 2013-0208244, 4/03/2013
18	INGRESS AND EGRESS - HARMONY GROVE PARTNERS	TO REMAIN	INSTR. 2013-0208247, 4/03/2013 & INSTR. 2016-0574322, 10/25/2016
19	GRANT OF EASEMENT	TO REMAIN	INSTR. 2013-0208249, 4/03/2013
26	DITCHES AND CANALS - USA	TO REMAIN	BK 698, PG. 344, 10/04/1937
27	RIGHT TO FISH AND INCIDENTAL PURPOSES - STATE CA.	TO REMAIN	BK 6051, PG. 344, 10/04/1937
30	RECORDED MEMORANDUM OF LEASE - SDGE	TO REMAIN	INSTR. 2010-0217321, 4/30/2010
31	RESTRICTIVE COVENANT	TO REMAIN	INSTR. 2010-018659, 02/04/2010
32	MEMORANDUM OF ACCESS EASEMENT AGREEMENT	TO REMAIN	INSTR. 2012-0031560, 1/19/2012
33	MEMORANDUM OF ACCESS AND ROAD CONTRUCTION	TO REMAIN	INSTR. 2012-0031562, 1/19/2012
36	GRANT OF ACCESS	TO REMAIN	INSTR. 2013-0208234, 4/03/2013
37	GRANT OF ROUGH ACRES RANCH ROAD	TO REMAIN	INSTR. 2013-0208246, 4/03/2013
38	GRANT OF CHARGER WAY	TO REMAIN	INSTR. 2013-0208248, 4/03/2013
41	100' FOR PUBLIC HIGHWAY	TO REMAIN	INSTR. 2016-0505303, 9/23/2016
46	COUNTY HIGHWAY - COUNTY OF SAN DIEGO	TO REMAIN	BK 404, PG. 93, 12/06/1935
48	AGREEMENT ACCESS & MAINTENANCE OF FENCE	TO REMAIN	BK 7301, PG. 388, 10/15/1958
49	UTILITY ACCESS - SDGE	TO REMAIN	INSTR. 2010-0235441, 5/11/2010
50	MEMORANDUM OF POWER LINE AGREEMENT	TO REMAIN	INSTR. 2011-0229743, 5/03/2011
53	ACCESS & MAINTENANCE - ROUGH ACRES WATER CO. INC.	TO REMAIN	INSTR. 2013-0208243, 4/03/2013

EASEMENTS AND RESTRICTIONS, PER FIRST AMERICAN TITLE INSURANCE COMPANY PRELIMINARY REPORT ORDER NUMBER 3009-101406662, UPDATED MAY 22, 2020.

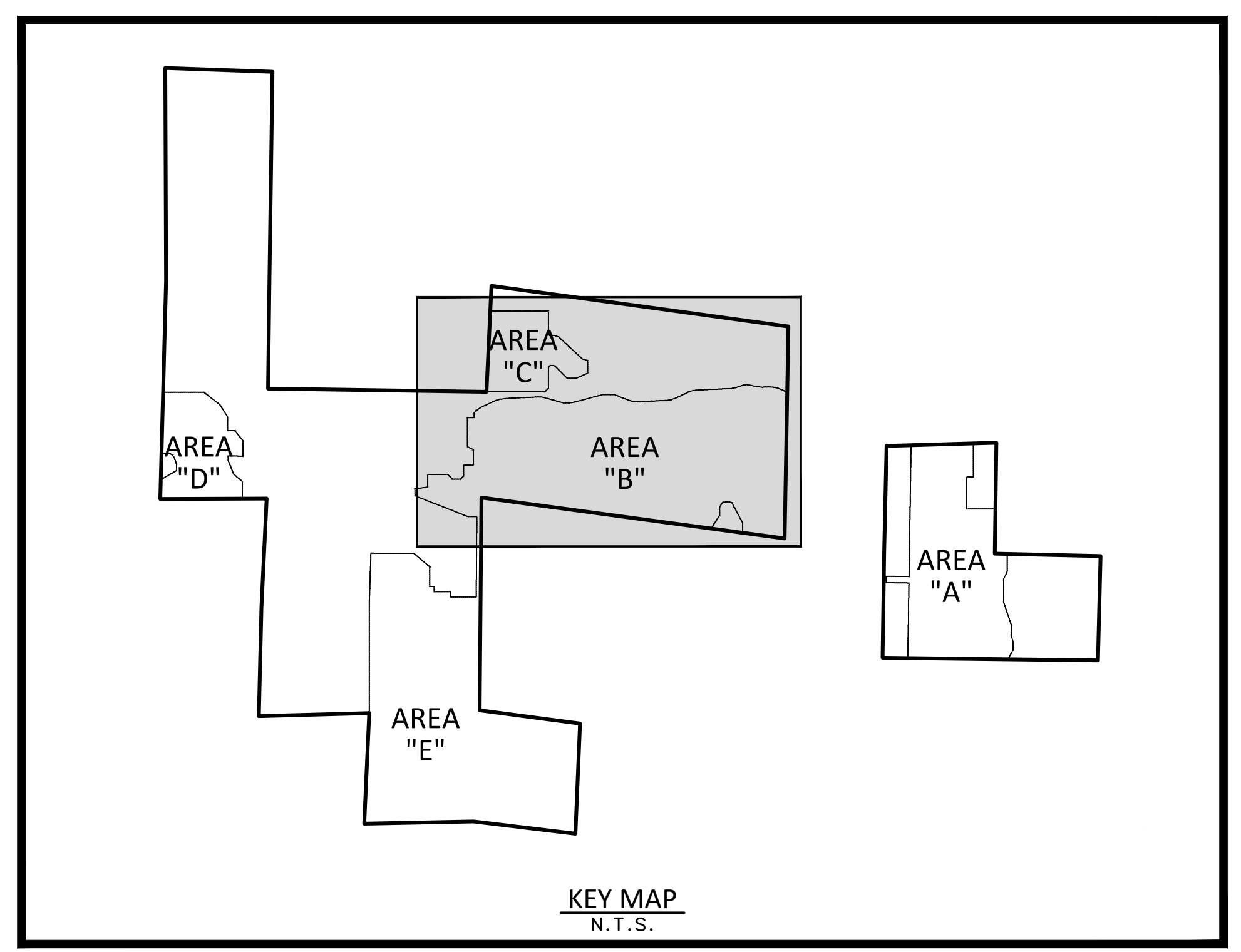
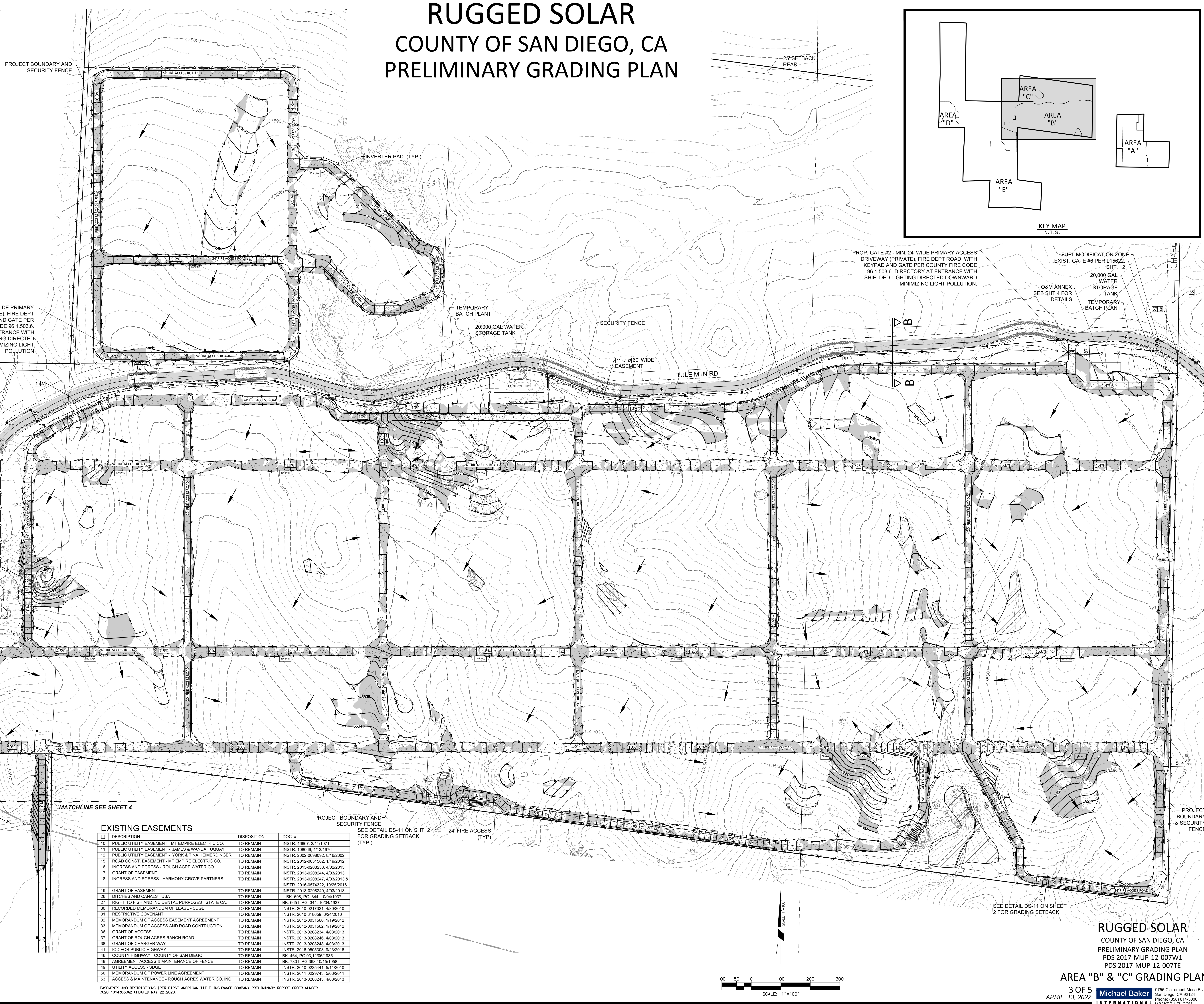


RUGGED SOLAR

COUNTY OF SAN DIEGO, CA

PRELIMINARY GRADING PLAN

- LEGEND:**
- PROJECT BOUNDARY / MUP
 - APN PARCEL
 - EX. EASEMENT
 - SETBACK LINE
 - PROP. LIMITS OF DEVELOPMENT
 - PROP. GATE
 - PROP. ALL WEATHER SURFACE (SEE DETAIL ON SHEET 1)
 - PROP. CONCRETE SURFACE (SEE DETAIL ON SHEET 1)
 - EXIST. FENCE
 - PROP. SECURITY FENCE
 - DIRECTION OF FLOW
 - EXIST. PAVEMENT
 - EXIST. CONCRETE
 - EXIST. RIP-RAP
 - PROP. INVERTER PAD
 - 100-YR LIMITS OF INUNDATION
 - EXIST. WATER WELL
 - EXIST. CONTOUR
 - PROP. CONTOUR
 - EXIST. DRAINAGE FLOW
 - OAKS W/ 50' RPO BUFFER
 - PROP. FILL SLOPE
 - EXISTING LOW FLOW CULVERT



EXISTING EASEMENTS

DESCRIPTION	DISPOSITION	DOC. #
10 PUBLIC UTILITY EASEMENT - MT EMPIRE ELECTRIC CO.	TO REMAIN	INSTR. 46667, 3/11/1971
11 PUBLIC UTILITY EASEMENT - JAMES & WANDA FUGUAY	TO REMAIN	INSTR. 108066, 4/13/1976
12 PUBLIC UTILITY EASEMENT - YORK & TINA HEINERUNGER	TO REMAIN	INSTR. 2002-0698092, 9/16/2002
15 ROAD CONST. EASEMENT - MT EMPIRE ELECTRIC CO.	TO REMAIN	INSTR. 2012-0031562, 1/19/2012
16 INGRESS AND EGRESS - ROUGH ACRE WATER CO.	TO REMAIN	INSTR. 2013-0208238, 4/02/2013
17 GRANT OF EASEMENT	TO REMAIN	INSTR. 2013-0208244, 4/03/2013
18 INGRESS AND EGRESS - HARMONY GROVE PARTNERS	TO REMAIN	INSTR. 2013-0208247, 4/03/2013 & INSTR. 2016-0574322, 10/25/2016
19 GRANT OF EASEMENT	TO REMAIN	INSTR. 2013-0208249, 4/03/2013
26 DITCHES AND CANALS - USA	TO REMAIN	BK. 498, PG. 344, 10/04/1937
27 RIGHT TO FISH AND INCIDENTAL PURPOSES - STATE CA	TO REMAIN	BK. 6951, PG. 344, 10/04/1937
30 RECORDED MEMORANDUM OF LEASE - SDGE	TO REMAIN	INSTR. 2010-0217321, 4/30/2010
31 RESTRICTIVE COVENANT	TO REMAIN	INSTR. 2010-318659, 6/24/2010
32 MEMORANDUM OF ACCESS EASEMENT AGREEMENT	TO REMAIN	INSTR. 2012-0031560, 1/19/2012
33 MEMORANDUM OF ACCESS AND ROAD CONSTRUCTION	TO REMAIN	INSTR. 2012-0031562, 1/19/2012
36 GRANT OF ACCESS	TO REMAIN	INSTR. 2013-0208234, 4/03/2013
37 GRANT OF ROUGH ACRES RANCH ROAD	TO REMAIN	INSTR. 2013-0208246, 4/03/2013
38 GRANT OF CHARGER WAY	TO REMAIN	INSTR. 2013-0208248, 4/03/2013
41 100' FOR PUBLIC HIGHWAY	TO REMAIN	INSTR. 2015-0505303, 9/23/2016
46 COUNTY HIGHWAY - COUNTY OF SAN DIEGO	TO REMAIN	BK. 464, PG. 93, 12/06/1935
48 AGREEMENT ACCESS & MAINTENANCE OF FENCE	TO REMAIN	BK. 7301, PG. 368, 10/15/1958
49 UTILITY ACCESS - SDGE	TO REMAIN	INSTR. 2010-0235441, 9/11/2010
50 MEMORANDUM OF POWER LINE AGREEMENT	TO REMAIN	INSTR. 2011-0229743, 5/03/2011
53 ACCESS & MAINTENANCE - ROUGH ACRES WATER CO. INC.	TO REMAIN	INSTR. 2013-0208243, 4/03/2013

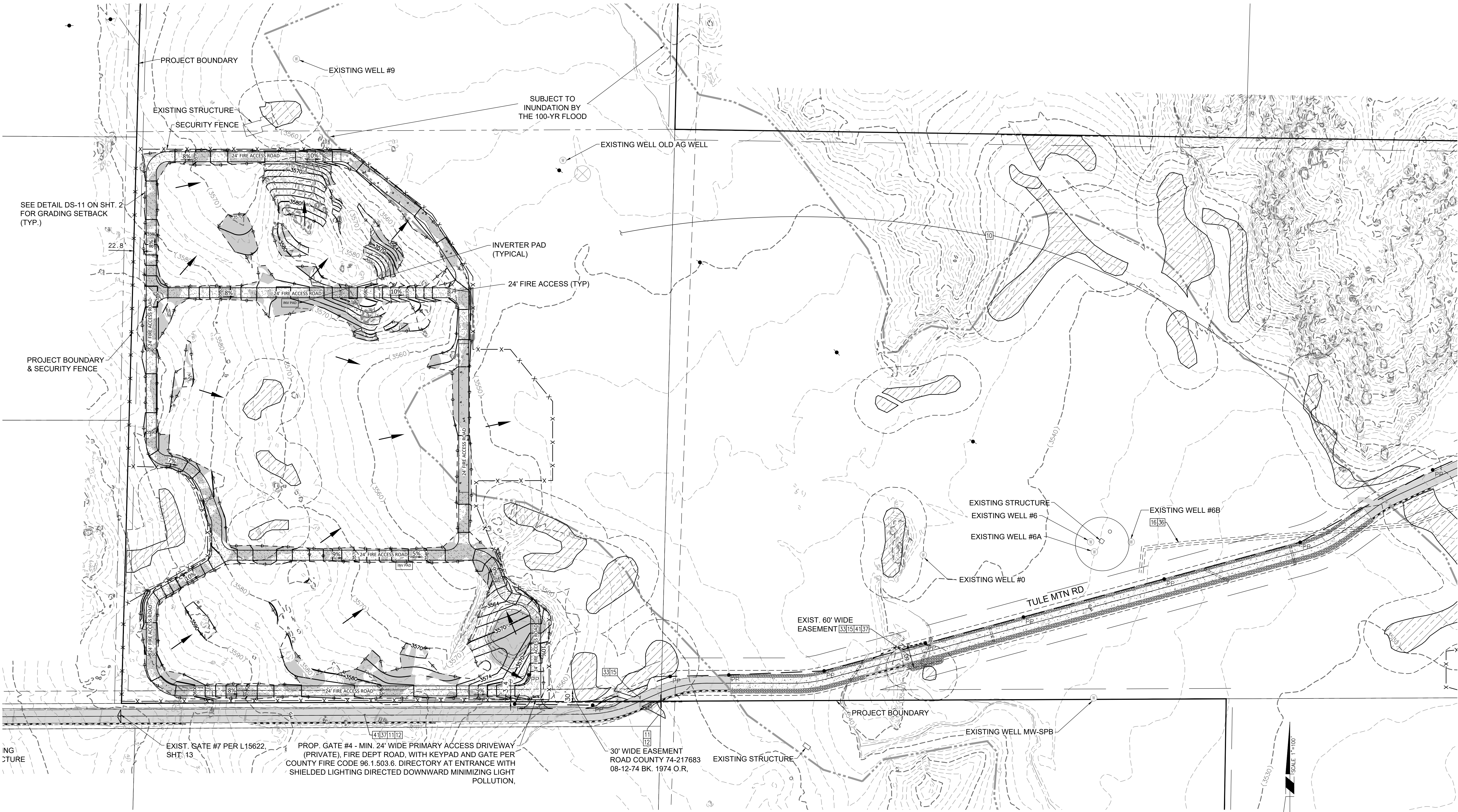
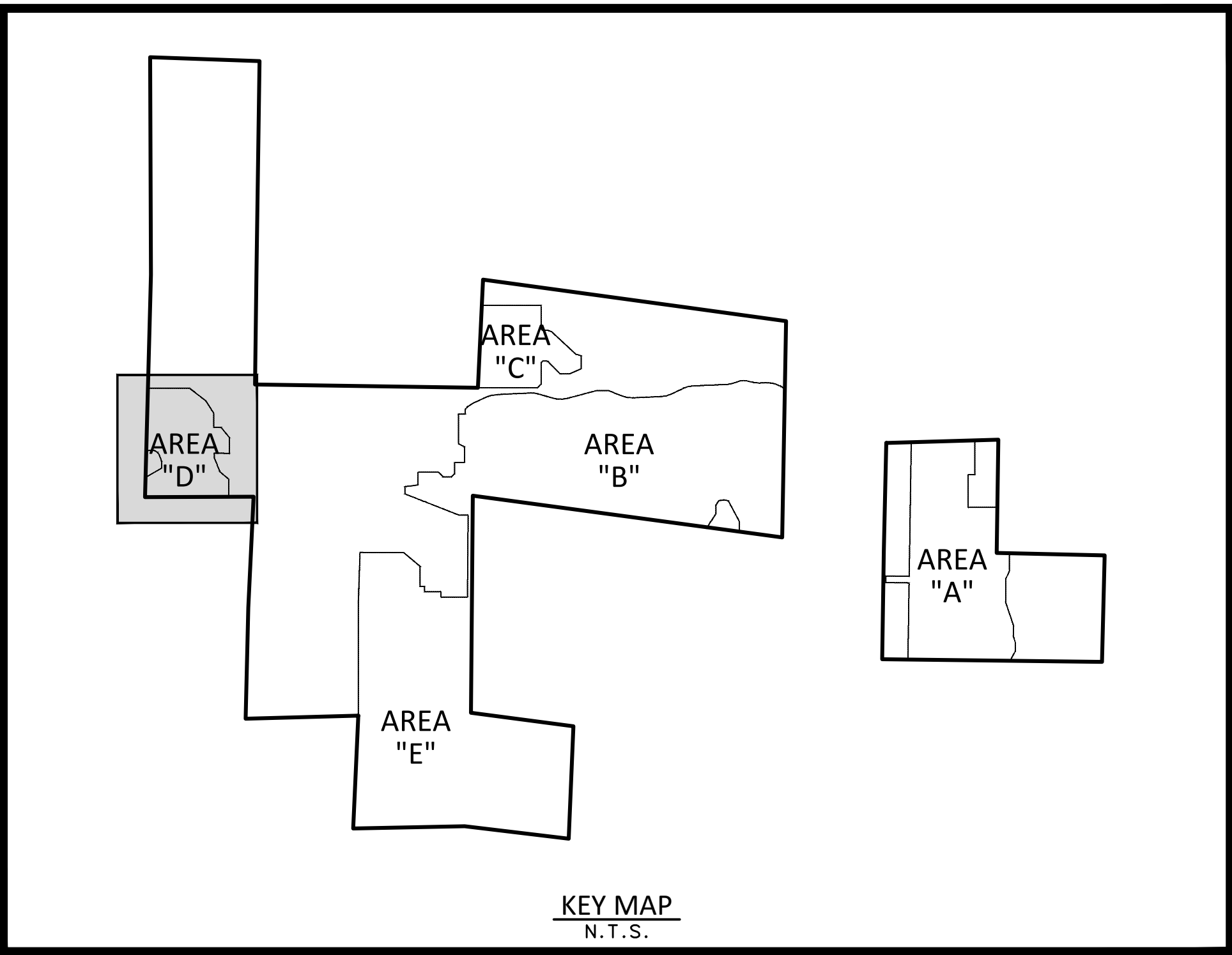
EASEMENTS AND RESTRICTIONS (PER FIRST AMERICAN TITLE INSURANCE COMPANY PRELIMINARY REPORT ORDER NUMBER 3020-1014308CAZ UPDATED MAY 22, 2020).

RUGGED SOLAR
COUNTY OF SAN DIEGO, CA
PRELIMINARY GRADING PLAN

EXISTING EASEMENTS

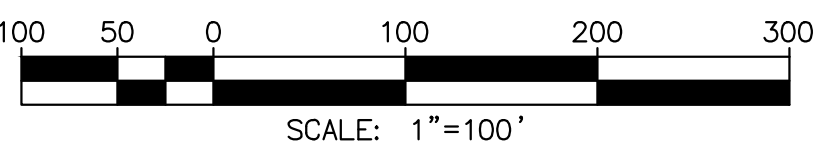
DESCRIPTION	DISPOSITION	DOC. #
10 PUBLIC UTILITY EASEMENT - MT EMPIRE ELECTRIC CO.	TO REMAIN	INSTR. 46667, 3/11/1971
11 PUBLIC UTILITY EASEMENT - JAMES & WANDA FUQUAY	TO REMAIN	INSTR. 108060, 4/13/1976
12 PUBLIC UTILITY EASEMENT - YORK & TINA HEMERDINGER	TO REMAIN	INSTR. 2002-068092, 8/16/2002
15 ROAD CONST. EASEMENT - MT EMPIRE ELECTRIC CO.	TO REMAIN	INSTR. 2012-0031562, 1/19/2012
16 INGRESS AND EGRESS - ROUGH ACRE WATER CO.	TO REMAIN	INSTR. 2013-0208238, 4/02/2013
17 GRANT OF EASEMENT	TO REMAIN	INSTR. 2013-0208244, 4/03/2013
19 INGRESS AND EGRESS - HARMONY GROVE PARTNERS	TO REMAIN	INSTR. 2013-0208247, 4/03/2013 & INSTR. 2016-0574322, 10/25/2016
19 GRANT OF EASEMENT	TO REMAIN	INSTR. 2013-0208249, 4/03/2013
26 DITCHES AND CANALS - USA	TO REMAIN	BK. 698, PG. 344, 10/04/1937
27 RIGHT TO FISH AND INCIDENTAL PURPOSES - STATE CA	TO REMAIN	BK. 695, PG. 344, 10/04/1937
30 RECORDED MEMORANDUM OF LEASE - SDGE	TO REMAIN	INSTR. 2010-0217321, 4/30/2010
31 RESTRICTIVE COVENANT	TO REMAIN	INSTR. 2010-318659, 6/24/2010
32 MEMORANDUM OF ACCESS EASEMENT AGREEMENT	TO REMAIN	INSTR. 2012-0031560, 1/19/2012
33 MEMORANDUM OF ACCESS AND ROAD CONTRUCTION	TO REMAIN	INSTR. 2012-0031562, 1/19/2012
36 GRANT OF ACCESS	TO REMAIN	INSTR. 2013-0208234, 4/03/2013
37 GRANT OF ROUGH ACRES RANCH ROAD	TO REMAIN	INSTR. 2013-0208246, 4/03/2013
38 GRANT OF CHARGER WAY	TO REMAIN	INSTR. 2013-0208248, 4/03/2013
41 IOD FOR PUBLIC HIGHWAY	TO REMAIN	INSTR. 2016-0505303, 9/23/2016
46 COUNTY HIGHWAY - COUNTY OF SAN DIEGO	TO REMAIN	BK. 464, PG. 93, 12/06/1935
48 AGREEMENT ACCESS & MAINTENANCE OF FENCE	TO REMAIN	BK. 7301, PG. 368, 10/15/1958
49 UTILITY ACCESS - SDGE	TO REMAIN	INSTR. 2010-0236441, 5/11/2010
50 MEMORANDUM OF POWER LINE AGREEMENT	TO REMAIN	INSTR. 2011-0229743, 5/03/2011
53 ACCESS & MAINTENANCE - ROUGH ACRES WATER CO. INC	TO REMAIN	INSTR. 2013-0208243, 4/03/2013

EASEMENTS AND RESTRICTIONS (PER FIRST AMERICAN TITLE INSURANCE COMPANY PRELIMINARY REPORT ORDER NUMBER 3020-1014368CA2 UPDATED MAY 22, 2020).



LEGEND:

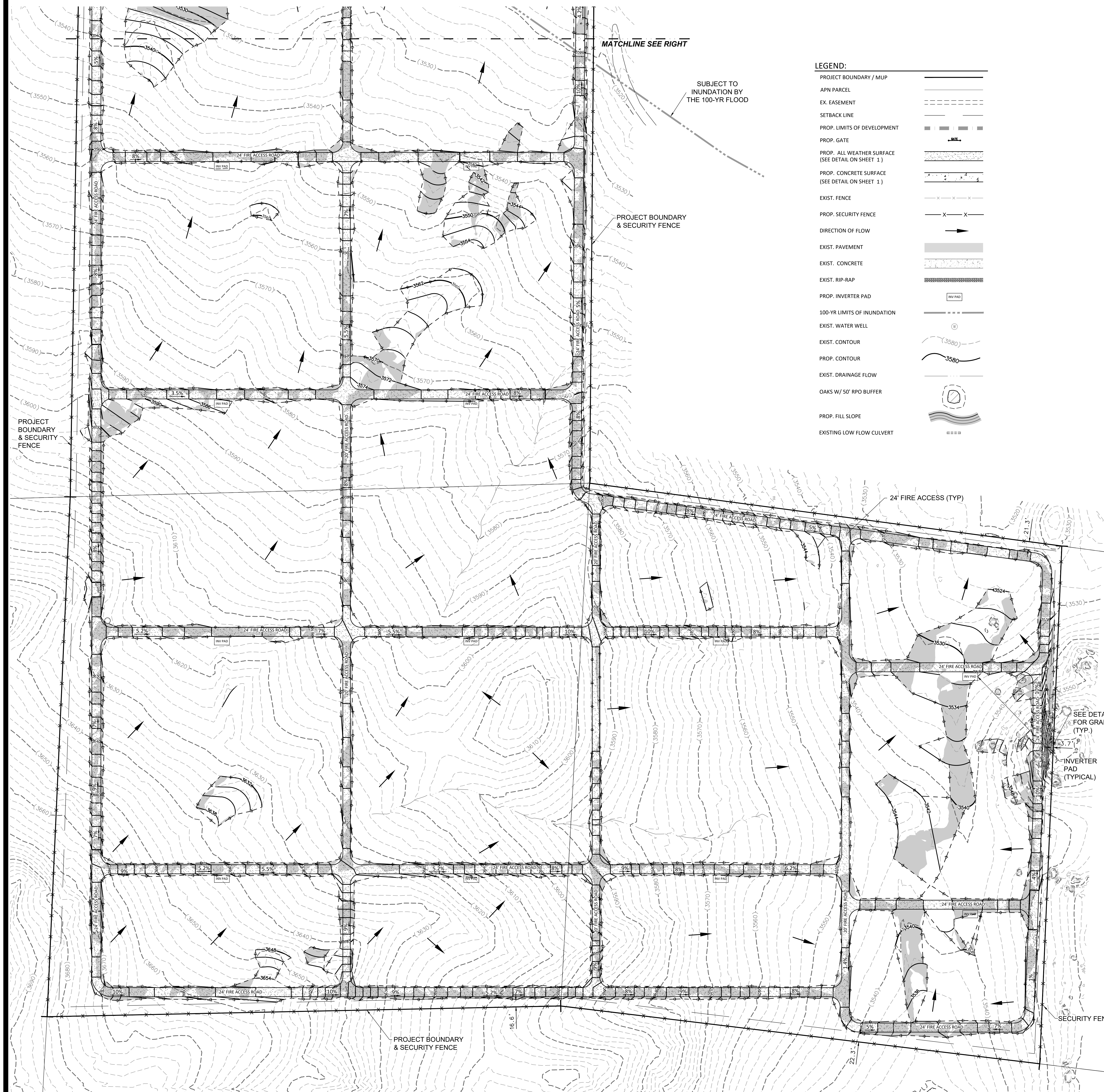
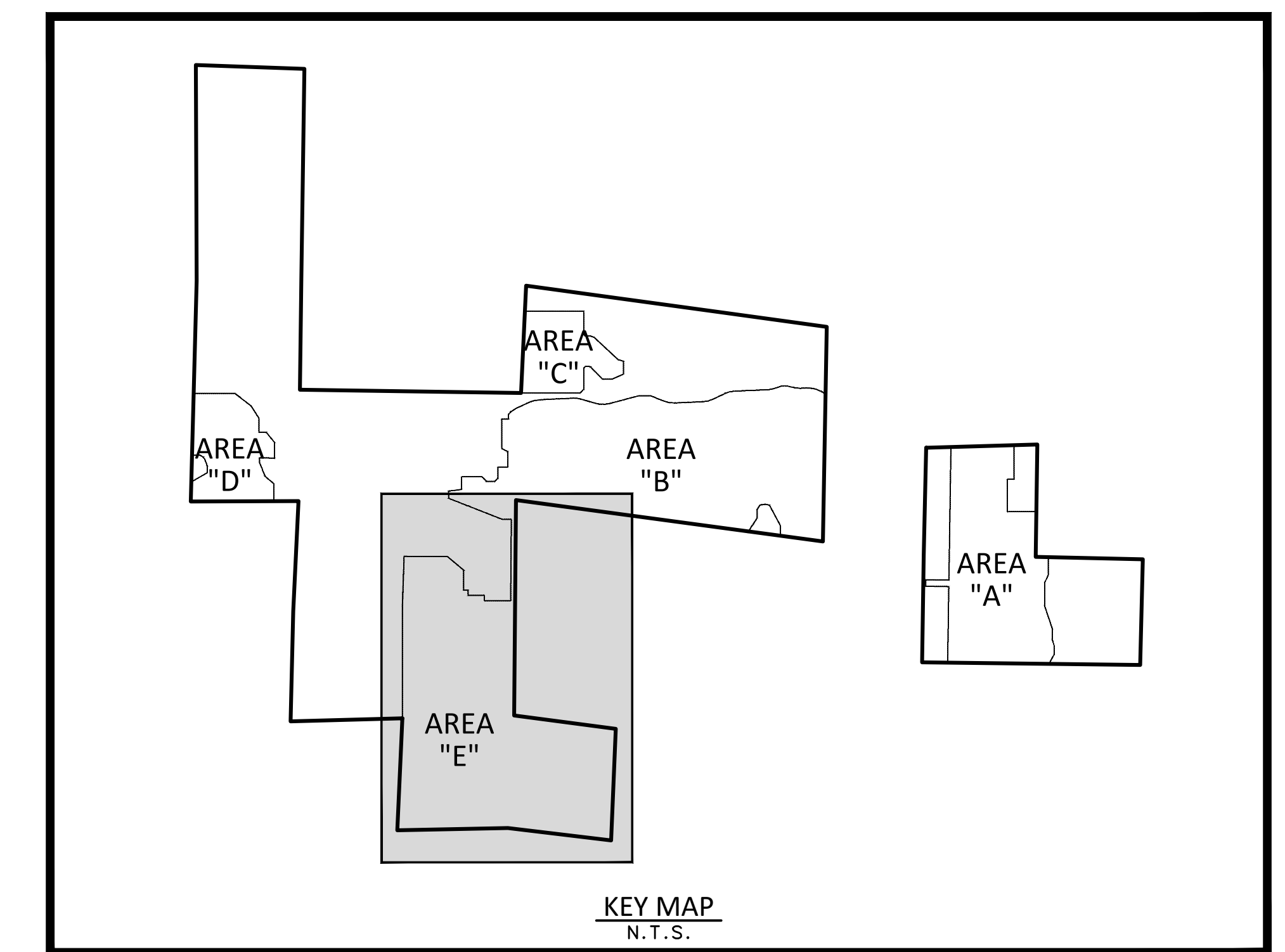
PROJECT BOUNDARY / MUP	---
APN PARCEL	---
EX. EASEMENT	---
SETBACK LINE	---
PROP. LIMITS OF DEVELOPMENT	---
PROP. GATE	---
PROP. ALL WEATHER SURFACE (SEE DETAIL ON SHEET 1)	---
PROP. CONCRETE SURFACE (SEE DETAIL ON SHEET 1)	---
EXIST. FENCE	---
PROP. SECURITY FENCE	---
DIRECTION OF FLOW	---
EXIST. PAVEMENT	---
EXIST. CONCRETE	---
EXIST. RIP-RAP	---
PROP. INVERTER PAD	---
100-YR LIMITS OF INUNDATION	---
EXIST. WATER WELL	---
EXIST. CONTOUR	---
PROP. CONTOUR	---
EXIST. DRAINAGE FLOW	---
OAKS W/ 50' RPO BUFFER	---
PROP. FILL SLOPE	---
EXISTING LOW FLOW CULVERT	---



RUGGED SOLAR

COUNTY OF SAN DIEGO, CA

PRELIMINARY GRADING PLAN



LEGEND:

PROJECT BOUNDARY / MUP	---
APN PARCEL	---
EX. EASEMENT	---
SETBACK LINE	---
PROP. LIMITS OF DEVELOPMENT	---
PROP. GATE	---
PROP. ALL WEATHER SURFACE (SEE DETAIL ON SHEET 1)	---
PROP. CONCRETE SURFACE (SEE DETAIL ON SHEET 1)	---
EXIST. FENCE	---
PROP. SECURITY FENCE	---
DIRECTION OF FLOW	---
EXIST. PAVEMENT	---
EXIST. CONCRETE	---
EXIST. RIP-RAP	---
PROP. INVERTER PAD	---
100-YR LIMITS OF INUNDATION	---
EXIST. WATER WELL	---
EXIST. CONTOUR	---
PROP. CONTOUR	---
EXIST. DRAINAGE FLOW	---
OAKS W/ 50' RPO BUFFER	---
PROP. FILL SLOPE	---
EXISTING LOW FLOW CULVERT	---

