SARAH SMEDLEY
NEW MEXICO
22978
PROFESSIONAL ENGINEER
10/31/2022

PRELIMINARY
NOT FOR
CONSTUCTION

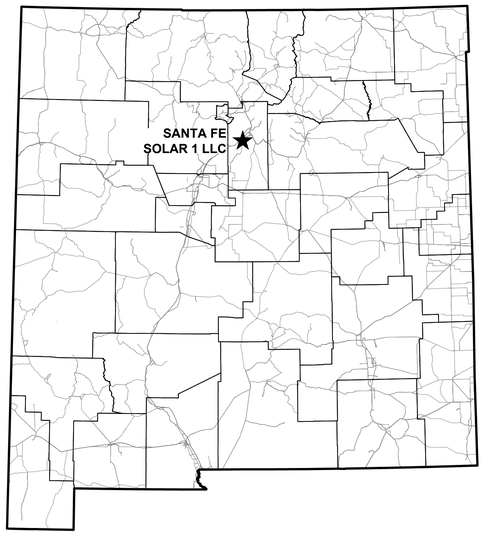
COMMUNITY SOLAR SITE DEVELOPMENT PLAN SET

SANTA FE SOLAR 1 LLC

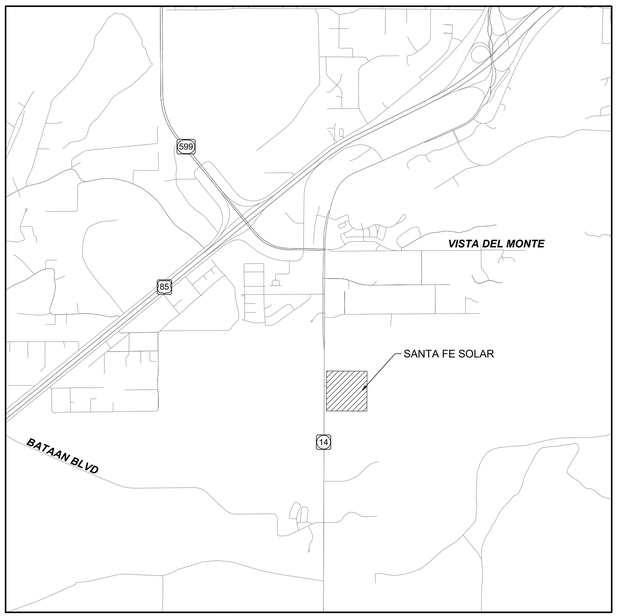
4396 NM HIGHWAY 14, SANTA FE, NEW MEXICO 87508

SECTION 36, TWP 16 N, RNG 8 E, SANTA FE COUNTY, NEW MEXICO

OCTOBER, 2022
REVISION 0



STATE MAP
SCALE: 1" = 300,000'



LOCAL MAP
SCALE: 1" = 2,500'

BASIS OF DESIGN	
GENERAL	
AHJ	SANTA FE COUNTY
INTERCONNECTION UTILITY	PNM
PROPERTY	
LAND OWNER	STATE OF NEW MEXICO
PARCEL #	99307749
PROJECT FENCED AREA	27.2 AC
LAT/LONG @ ENTRANCE	35.5756°, -106.0536°
SYSTEM PARAMETERS	
DC SYSTEM SIZE	±6.0 MWdc
AC SYSTEM SIZE	±5.0 MWac
AC MAX. DELIVERABLE @ POI	±5.0 MWac
LV AC SYSTEM VOLTAGE	DISTRIBUTION GRID CONNECTED AT LOCAL VOLTAGE
MODULES	
SOLAR MODULE MAKE	SILICON MODULES
MODULE QUANTITY	±10,500
RACKING	
RACKING TYPE	SINGLE-AXIS TRACKER
PITCH	25'
RANGE OF MOTION	52°

DATA SOURCE SUMMARY	
BOUNDARY/CONTOURS	GIS ACCESSED PARCEL BOUNDARY & CONTOURS PIVOT ENERGY SEPTEMBER 14, 2022
WETLANDS	NATIONAL WETLANDS INVENTORY SANTA FE COUNTY, NM ACCESS SEPTEMBER 2022
ARRAY LAYOUT	PIVOT ENERGY CAD-PENM SANTA FE 1_20220913.DWG 09/13/2022

PROJECT CONTACTS	
DEVELOPER	PIVOT ENERGY 1750 15TH STREET, SUITE 400, DENVER, CO 80202 JON SULLIVAN 303-718-3291 JSULLIVAN@PIVOTENERGY.NET
CIVIL ENGINEER	MERIDIEM ENGINEERING LLC 6248 EAST WINCHCOMB DR, SCOTTSDALE, AZ 85254 SARAH SMEDLEY, PE 602-799-4826 SARAH.SMEDLEY@MERIDIEM-ENG.COM

SHEET INDEX	
C000	COVER SHEET
C001	GENERAL NOTES & LEGEND
C101	EXISTING CONDITIONS
C201	SITE PLAN
C202	ACCESS & CIRCULATION PLAN
C301	GRADING & EROSION CONTROL PLAN
C401	SITE DETAILS
C402	BMP DETAILS

PROJECT DESCRIPTION

SANTA FE SOLAR 1 LLC IS AN APPROXIMATE 30 ACRE, 5 MW COMMUNITY SOLAR GARDEN. THE PROJECT WILL BE CONTRACTED WITH PNM THROUGH THEIR SOLAR PROGRAM WHICH IS SUPPORTED BY THE STATE OF NEW MEXICO. ONCE OPERATING, THE PROJECT WILL DELIVER CLEAN, LOCAL ENERGY TO THE SURROUNDING COMMUNITY FOR 25+ YEARS. PNM WILL PURCHASE ALL OF THE ENERGY PRODUCED AND COMPENSATE THE SYSTEM OWNER AND GARDEN SUBSCRIBERS IN THE FORM OF BILL CREDITS. OPERATED BY PIVOT ENERGY, THIS GARDEN WILL ABIDE BY ALL TOWNSHIP, CITY, COUNTY AND STATE REQUIREMENTS. PIVOT TO PROVIDE ADDITIONAL INFORMATION UPON REQUEST.

DEVELOPER/OWNER/OPERATOR:

Pivot Energy

UTILITY:

PNM

ENGINEER:

MERIDIEM ENGINEERING

GENERAL CIVIL NOTES

1. ALL STATE AND LOCAL STANDARD SPECIFICATIONS SHALL APPLY UNLESS OTHERWISE STATED.
2. ALL WORK DETAILED WITHIN THIS PLAN SET AND PERFORMED UNDER THIS CONTRACT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE PROJECT GEOTECHNICAL REPORT.
3. THE CONTRACTOR SHALL ABIDE BY ALL LOCAL, STATE AND FEDERAL LAWS AND REGULATIONS WHICH APPLY TO THE CONSTRUCTION OF THESE IMPROVEMENTS.
4. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FOR THE PROJECT PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES.
5. INSTALLATION SHALL BE COMPLETED IN A NEAT AND WORKMANLIKE MANNER.
6. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS AGAINST THE PROVIDED SURVEY INCLUDING THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL POTENTIAL OBSTRUCTIONS, SUCH AS UNDERGROUND UTILITIES. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE OWNER AND THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH MINIMAL DELAY AND COST IMPACTS.
7. THE CONTRACTOR SHALL CONTACT LINE LOCATING SERVICES FOR THE LOCATION OF EXISTING UTILITIES TWO (2) DAYS PRIOR TO ANY EXCAVATION.
8. ALL ELECTRICAL, TELEPHONE, CABLE TV, GAS AND OTHER UTILITY LINES, CABLES AND APPURTENANCES ENCOUNTERED DURING CONSTRUCTION THAT REQUIRE RELOCATION SHALL BE COORDINATED WITH THAT UTILITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COORDINATION OF ALL NECESSARY UTILITY ADJUSTMENTS.
9. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL EXISTING UTILITY LINES WITHIN THE PROJECT AREA. ANY DAMAGE TO EXISTING FACILITIES CAUSED BY CONSTRUCTION ACTIVITIES SHALL BE REPAIRED OR REPLACED.
10. CONSTRUCTION SHALL NOT OCCUR IN THE PUBLIC RIGHT OF WAY, PUBLIC OR PRIVATE EASEMENTS, BEYOND THE LIMITS OF DISTURBANCE OR OUTSIDE THE PROPERTY LINES WITHOUT PROPER PERMITS.
11. OVERNIGHT PARKING OF CONSTRUCTION EQUIPMENT SHALL NOT OBSTRUCT DRIVEWAYS OR DESIGNATED TRAFFIC LANES. THE CONTRACTOR SHALL NOT STORE ANY EQUIPMENT OR MATERIALS WITHIN THE PUBLIC RIGHT OF WAY. OVERNIGHT PARKING OF CONSTRUCTION EQUIPMENT ON PRIVATE PROPERTY IS THE RESPONSIBILITY OF THE CONTRACTOR.
12. ALL PROPERTY MARKERS DESTROYED DURING CONSTRUCTION SHALL BE REPLACED BY THE CONTRACTOR AT THEIR EXPENSE. ALL DISTURBED PROPERTY MARKERS SHALL BE RESET BY A REGISTERED LAND SURVEYOR.
13. THE CONTRACTOR SHALL COMPLY WITH ALL FEDERAL, STATE AND LOCAL LAWS AND REGULATIONS CONTROLLING POLLUTION OF THE ENVIRONMENT PRIOR TO START OF PROJECT CONSTRUCTION. THE CONTRACTOR SHALL CONTACT THE AGENCIES RESPONSIBLE FOR AIR, NOISE, AND WATER QUALITY CONTROL REGULATIONS TO DETERMINE THE STANDARDS WHICH SHALL ADHERE DURING CONSTRUCTION OPERATIONS. THE CONTRACTOR SHALL OBTAIN, PREPARE, SUBMIT ALL FORMS, APPLICATIONS AND/OR PLANS REQUIRED TO COMPLY WITH ALL FEDERAL, STATE AND LOCAL LAWS CONTROLLING POLLUTION TO THE ENVIRONMENT. THE CONTRACTOR SHALL ALSO MODIFY ALL PLANS, PERMITS, FORMS, APPLICATIONS AS REQUIRED, AS SITE CONDITIONS CHANGE TO STAY IN COMPLIANCE WITH THESE LAWS AND REGULATIONS. THE CONTRACTOR SHALL PROVIDE THE OWNER ONE ADDITIONAL COPY OF EACH REQUIRED PLAN, SUBMITTED FORM OR APPLICATION, AND PLAN UPDATED SUBMITTED. THE CONTRACTOR SHALL ALSO MODIFY THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP), IF REQUIRED PER PROJECT. PERFORMANCE OF THESE RESPONSIBILITIES ARE INCIDENTAL TO CONSTRUCTION OF THE PROJECT.
14. BEFORE COMMENCING CONSTRUCTION, CONTRACTOR SHALL LOCATE, POTHOLE AND MEASURE DEPTH TO TOP OF ALL EXISTING UTILITIES, UNDERGROUND WET AND DRY UTILITIES AT PROPOSED CROSSING LOCATIONS, ACCORDING TO THE CONTRACT DOCUMENTS OR AS SPECIFIED BY THE UTILITY OWNER. CONTRACTOR SHALL PROVIDE ENGINEER AND OWNER WITH AN AS-BUILT PLAN OF ALL INFORMATION AND RECEIVE FORMAL APPROVAL BEFORE STARTING WORK.
15. CONTRACTOR TO ENSURE ALL WORK PERFORMED IS IN ACCORDANCE WITH EXISTING PROJECT PERMITS, STUDIES AND REPORTS PROVIDED IN CONTRACT DOCUMENTS.
16. CONTRACTOR SHALL DETERMINE THE SOURCE OF AND SECURE APPROVAL OF CONSTRUCTION WATER AS NECESSARY TO COMPLETE THE PROJECT.
17. CONTRACTOR SHALL MANAGE DUST, DIRT, MUD, SNOW, ETC. DURING THE CONSTRUCTION PHASE.

SITE PREPARATION AND GRADING NOTES

1. THE CONTRACTOR SHALL BE REQUIRED TO CLEAR AND GRUB ROAD AND PAD AREAS AND THE ARRAY GRADING AREA AS DESIGNATED ON THE PLANS. THIS INCLUDES REMOVING ALL TREES, STUMPS, BRUSH AND DEBRIS WITHIN THESE AREAS. ALL OTHER AREAS WILL BE MOWED AND LOW VEGETATION AND GRASSES SHOULD REMAIN.
2. THE CONTRACTOR SHALL PRESERVE OTHER EXISTING VEGETATION TO BE SAVED TO THE MAXIMUM EXTENT PRACTICABLE. ANY VEGETATION THAT IS REMOVED SHALL ONLY BE ALLOWED WITHIN THE PROJECT LIMITS. THE CONTRACTOR IS TO REMOVE ONLY THAT VEGETATION WHICH IS DESIGNATED BY THE PLANS OR AS DIRECTED BY THE OWNER FOR REMOVAL, AND SHALL EXERCISE CARE AROUND EXISTING VEGETATION TO BE SAVED. CONSTRUCTION FENCING MAY BE INSTALLED TO PROTECT AREAS THAT ARE NOT TO BE DISTURBED.
3. EMBANKMENT CONSTRUCTION SHALL CONSIST OF THE PLACING OF ENGINEERED FILL MATERIAL, AFTER TOPSOIL STRIPPING, ABOVE THE EXISTING GRADE. GENERALLY, EMBANKMENTS SHALL HAVE COMPACTED SUPPORT SLOPES OF FOUR FEET HORIZONTAL TO ONE FOOT VERTICAL (4:1) OR AS IDENTIFIED ON THE GRADING PLANS. THE MATERIAL FOR EMBANKMENT CONSTRUCTION SHALL BE OBTAINED BY THE CONTRACTOR AND APPROVED BY THE GEOTECHNICAL ENGINEER. THIS MATERIAL SHALL BE PLACED IN LIFTS NOT TO EXCEED 8".
4. ALL SLOPES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE GRADING SHOWN ON THE PLANS.
5. EXPOSED SURFACES SHOULD BE FREE OF MOUNDS AND DEPRESSIONS WHICH COULD PREVENT UNIFORM COMPACTION.
6. NO BURNING OF DEBRIS IS ALLOWED WITHOUT THE NECESSARY PERMITS FROM AUTHORITIES HAVING JURISDICTION (AHJ) AND APPROVAL OF THE OWNER.
7. EXPOSED AREAS WHICH WILL RECEIVE STRUCTURAL FILL, ONCE PROPERLY CLEARED, SHOULD BE INSPECTED BY GEOTECHNICAL ENGINEER OR AUTHORIZED REPRESENTATIVE TO ENSURE THE NATIVE SOIL IS FREE OF GROUNDWATER, ORGANICS, SOFT/LOOSE SOIL, DEBRIS (FILL), LOOSE ROCK OR SOIL CLODS GREATER THAN 3 INCHES IN MAXIMUM DIMENSION, AND OTHER DELETERIOUS MATERIALS.
8. PRIOR TO PLACING FILL, SURFACE COMPACT SUBGRADE USING A VIBRATORY SMOOTH-DRUM ROLLER OR WALK-BEHIND PLATE COMPACTOR. SUBGRADE SHALL BE MOISTURE CONDITIONED AS NEEDED AND COMPACTED TO 95% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY TO A DEPTH OF 1 FOOT.
9. WITHIN PV ARRAY FILL AREAS, UNSUITABLE SUBGRADE MUST BE OVER-EXCAVATED AND REPLACED WITH SUITABLE ENGINEERED FILL OR NATIVE GRANULAR SOIL.
10. MINIMUM DEPTH OF OVER-EXCAVATION SHOULD EXTEND TO THE DEPTH OF THE UNSUITABLE SUBGRADE MATERIAL ENCOUNTERED.
11. THE OVER-EXCAVATION SHOULD BE BACKFILLED UP TO THE REQUIRED ELEVATION PER GRADING PLANS WITH SUITABLE ENGINEERED FILL OR NATIVE GRANULAR SOIL, PLACED IN 8 INCH LOOSE LIFTS. BACKFILL SHALL BE COMPACTED TO 95% OF MAXIMUM DRY DENSITY AND BETWEEN -3% AND +3% OF OPTIMUM MOISTURE CONTENT, AS DETERMINED BY THE STANDARD PROCTOR MAXIMUM DRY DENSITY TEST.
12. THE MOISTURE CONTENT AND COMPACTION OF THE SUBGRADE SOILS SHOULD BE MAINTAINED UNTIL FILL PLACEMENT.
13. ONSITE SOILS OR APPROVED IMPORT MATERIAL MAY BE USED AS SUBGRAGE MATERIAL FOR SITE GRADING, AS SPECIFIED IN THE SITE GEOTECHNICAL REPORT.
14. ENGINEERED FILL SHALL CONSIST OF GRANULAR SOIL WITH LESS THAN 10% PASSING THE NO. 200 SIEVE. CLAYEY SAND, LEAN CLAY OR FAT CLAY SHOULD NOT BE USED FOR ENGINEERED FILL DUE TO MOISTURE SENSITIVITY. ONSITE SOIL MEETING THIS CRITERIA MAY BE USED AS ENGINEERED FILL PROVIDED THE MATERIAL IS FREE OF ORGANICS AND PARTICLES LARGER THAN 3 INCHES. SELECT IMPORT GRANULAR FILL MAY BE USED AS ENGINEERED FILL PROVIDED THAT IT IS WELL GRADED AND CONTAINS NO CLAY BALLS, ROOTS, ORGANIC MATERIALS, AND MEETS THE AFOREMENTIONED SPECIFICATIONS.
15. ENGINEERED FILL SHOULD BE PLACED AND COMPACTED IN HORIZONTAL LIFTS, USING EQUIPMENT AND PROCEDURES THAT WILL PRODUCE RECOMMENDED MOISTURE CONTENTS AND DENSITIES THROUGHOUT THE LIFT. FILL LIFTS SHOULD NOT EXCEED 12 INCHES LOOSE THICKNESS. ENGINEERED FILL SHALL BE COMPACTED TO 95% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY WITH MOISTURE CONDITIONING RANGE OF -3% TO +3%.
16. IN-PLACE DENSITY TESTS SHOULD BE PERFORMED IN AREAS OF FILL GREATER THAN 16" FOR EVERY 10,000 SQUARE FEET OF EACH LIFT OF FILL. NO LESS THAN THREE DENSITY TESTS SHOULD BE PERFORMED.
17. TESTING AND INSPECTION REPORTS SHALL BE SUBMITTED TO THE ENGINEER OF RECORD FOR REVIEW.

EROSION, SEDIMENTATION, & POLLUTION CONTROL (ESPC) NOTES

1. THE CONTRACTOR SHALL IMPLEMENT AND MAINTAIN THE ESPC MEASURES AND KEEP THE NECESSARY DOCUMENTATION OUTLINED IN THIS PLAN. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ABIDE BY ALL FEDERAL, REGIONAL, AND LOCAL REGULATIONS SET FORTH REGARDING STORM WATER POLLUTION PREVENTION.
2. EMPLOYEES AND SUBCONTRACTORS RESPONSIBLE FOR IMPLEMENTING AND MAINTAINING THE ESPC MEASURES SHALL BE INFORMED OF:
   a. ANY RECEIVING WATERS IN CLOSE PROXIMITY TO THE PROJECT.
   b. ENVIRONMENTALLY SENSITIVE AREAS TO AVOID.
   c. THE LOCATION, TYPE AND PURPOSE OF BMP'S BEING USED.
   d. THE INSTALLATION AND MAINTENANCE PROCEDURES FOR BMP'S.
   e. SPILL PREVENTION AND CLEANUP MEASURES.
   f. INSPECTION AND RECORD KEEPING REQUIREMENTS.
4. EXISTING TOPSOIL AND VEGETATION SHALL BE PROTECTED AND PRESERVED TO THE MAXIMUM EXTENT POSSIBLE.
5. CONSTRUCTION TRAFFIC SHALL USE MARKED TEMPORARY OR PERMANENT ACCESS POINTS ALONG MARTINEZ ROAD AND LIMIT CROSS COUNTRY TRAVEL TO REDUCE DISTURBANCE.
6. VEHICLE TRACKOUT PADS SHALL BE USED FOR ALL TEMPORARY AND PERMANENT ACCESS POINTS ALONG MARTINEZ ROAD. IF A WASH STATION IS USED RUNOFF SHALL BE DIVERTED TO A TEMPORARY SEDIMENT TRAP.
7. SEDIMENT CONTROLS SUCH AS SILT FENCES, SEDIMENT BARRIERS, AND BASINS SHALL BE IN PLACE PRIOR TO SOIL-DISTURBING ACTIVITIES.
8. A WATER TRUCK SHALL BE USED AS DETERMINED BY CONTRACTOR TO WET ALL ACCESS ROADS AND DISTURBED AREAS AS APPROPRIATE TO CONTROL DUST AND PREVENT SOIL LOSS. WATERING ALONG MARTINEZ MAY BE NECESSARY TO CONTROL DUST.
9. ONCE CLEARING AND/OR GRADING ACTIVITIES HAVE CEASED PERMANENTLY OR TEMPORARILY, DISTURBED TOPSOIL WHICH WILL NOT BE IMMEDIATELY STABILIZED WITH SEED SHALL BE STOCKPILED AND SECURED USING TEMPORARY MEASURES SUCH AS MULCHES, MATRICES, BLANKETS, OR SOIL BINDERS WHERE NEEDED AND SURROUNDED WITH SILT FENCE. STOCKPILES SHALL NOT BE PLACED ON PAVED SURFACES.
10. WHERE CONCENTRATED STORMWATER FLOW MAY INTERSECT DISTURBED AREAS OR STEEP SLOPES, RUNOFF SHALL BE DIVERTED WHEN FEASIBLE USING TEMPORARY SLOPE DRAINS, OR EARTHEN BERMS OR DITCHES. DISTURBING THE EXISTING FLOW LINE AND VEGETATION OF NATURAL CHANNELS SHALL BE AVOIDED WHEN POSSIBLE.
11. ON MODERATE SLOPES WITH A HIGH POTENTIAL FOR EROSION, SILT FENCE OR SEDIMENT LOGS SHALL BE INSTALLED AT 10'-20' SPACING ON LEVEL CONTOURS AS NEEDED.
12. DISTURBED OR BARE SLOPES IN EXCESS OF 3:1 SHALL BE PROTECTED WITH EROSION CONTROL BLANKETS, BONDED FIBER MATRICES, OR TURF REINFORCEMENT MATS.
13. SILT FENCE AND/OR SEDIMENT LOGS SHALL BE INSTALLED ON LEVEL CONTOURS ALONG THE SITE PERIMETER AS NEEDED TO MITIGATE SEDIMENT LOSS WHERE RUNOFF LEAVES THE SITE AND ON THE DOWNSLOPE SIDE OF DISTURBED WORKING AREAS WHERE FEASIBLE. SILT FENCE SHALL NOT BE USED IN AREAS OF CONCENTRATED FLOW.
14. ADDITIONAL SEDIMENT AND EROSION CONTROL TECHNIQUES SUCH AS SHEEPSFOOT ROLLING, TRACKWALKING, COMPOSTING, ROCK OR BRUSH FILTERS, CHECK DAMS, GRAVEL BAGS, ETC. MAY BE UTILIZED AS A SUPPLEMENTARY STRATEGY.
15. ENVIRONMENTALLY SENSITIVE AREAS, VEGETATIVE BUFFERS, AND OTHER "DO NOT ENTER" AREAS WITHIN THE CONSTRUCTION FOOTPRINT SHALL BE DELINEATED WITH SILT FENCE TO PREVENT DISTURBANCE FROM VEHICLE AND FOOT TRAFFIC.
16. WHERE RECEIVING WATERS EXIST ADJACENT TO THE PROJECT AREA ADDITIONAL PERIMETER CONTROLS SHALL BE INSTALLED AS NEEDED TO PREVENT SEDIMENT AND OTHER POLLUTANTS FROM ENTERING THE WATERBODY OR STORM DRAIN SYSTEM.
17. WASTE CONTAINERS FOR GARBAGE AND HAZARDOUS MATERIALS SHALL BE STORED AWAY FROM WATERCOURSES, AND STORM DRAINS.
18. PAINTS, SOLVENTS, PESTICIDES, FUELS AND OILS, OTHER HAZARDOUS MATERIALS OR ANY BUILDING MATERIALS THAT HAVE THE POTENTIAL TO CONTAMINATE STORMWATER SHALL BE STORED UNDER COVER OR IN AREAS WITH SECONDARY CONTAINMENT.
19. THE CONCRETE WASH AREA SHALL BE LOCATED A MINIMUM OF 50 YARDS FROM STORM DRAINS AND WATERCOURSES.
20. BMP'S SHALL BE INSPECTED ONCE EVERY 14 DAYS AND FOLLOWING A RAINFALL EXCEEDING ONE-HALF INCH. ANY PROBLEMS SHALL BE NOTED AND CORRECTIVE ACTION SHALL TAKE PLACE WITHIN 24 HOURS OF THE NEXT WORKING DAY.
21. AN INSPECTION REPORT SHALL BE KEPT ON SITE NOTING:
   a. INSPECTION DATE AND TIME
   b. NAME OF INSPECTOR
   c. LOCATION(S) AND CONDITION(S) OF ACTIVE BMP'S
   d. DESCRIPTION OF ANY EVIDENCE OF DISCHARGE OR FAILURE
   e. CORRECTIVE ACTION TAKEN
22. MAINTENANCE OF BMP'S SHALL INCLUDE:
   a. SEDIMENT REMOVAL FROM ROADWAY, INLETS, AND BMP'S
   b. ENSURE THAT MATERIAL AND WASTE STORAGE AREAS ARE CLEAN AND MAINTAINED
   c. REPLACE OR REPAIR DAMAGED BMP'S
   d. OTHER MANUFACTURERS RECOMMENDED MAINTENANCE PROCEDURES
23. BMP'S WHICH ARE REMOVED TEMPORARILY TO CONDUCT WORK SHALL BE REPLACED AS SOON AS POSSIBLE AND PRIOR TO A RAIN EVENT.
24. FINAL STABILIZATION IS ACHIEVED WHEN A UNIFORM, EVENLY DISTRIBUTED PERENNIAL VEGETATIVE COVER WITH A DENSITY OF 70 PERCENT HAS BEEN ESTABLISHED ON ALL UNPAVED AREAS.
25. ONCE CONSTRUCTION ACTIVITY IN AN AREA IS COMPLETED AND THE AREA REACHES FINAL STABILIZATION BMP INSPECTIONS AND MAINTENANCE MAY CEASE FOR THAT AREA AND TEMPORARY BMP'S MAY BE REMOVED.
26. UPON PROJECT COMPLETION
   a. REMOVE ANY CONSTRUCTION DEBRIS AND TRASH
   b. REMOVE TEMPORARY BMP'S
   c. RESEED BARE SOIL AREAS
   d. ENSURE POST CONSTRUCTION BMP'S ARE IN PLACE AND FUNCTIONING CORRECTLY
   e. INSPECT INSTALLED CULVERTS, REMOVE ANY CLOGGED MATERIAL AND ENSURE DITCH BOTTOMS AND BANKS ARE WELL VEGETATED.
   f. REMOVE AND RESEED TEMPORARY ACCESS ROADS AND STREAM CROSSINGS

LEGEND

- PROJECT BOUNDARY
- PARCEL LINE
- EASEMENT
- EXISTING EDGE OF ASPHALT ROAD
- EXISTING EDGE OF GRAVEL ROAD
- EXISTING FENCE
- EXISTING OVERHEAD ELECTRIC
- EXISTING INDEX CONTOUR
- EXISTING INTERMEDIATE CONTOUR
- EXISTING TELEPHONE PEDESTAL
- EXISTING POWER POLE
- EXISTING CONTROL POINT
- LIMITS OF DISTURBANCE
- PROPOSED ROAD
- PROPOSED FENCE
- PROPOSED UNDERGROUND
- PROPOSED INDEX CONTOUR
- PROPOSED INTERMEDIATE CONTOUR
- PROPOSED GATE
- PROPOSED EQUIPMENT RACK
- PROPOSED TRANSFORMER PAD
- PROPOSED SOLAR ARRAY

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SARAH SMEDLEY
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10/31/2022

REVISIONS

NO.	DATE	DESCRIPTION
0	10/31/2022	COMMUNITY SOLAR SDP SUBMITTAL

PROJECT

SANTA FE SOLAR 1 LLC
4396 NM HIGHWAY 14
SANTA FE, NEW MEXICO 87508

SHEET NAME
GENERAL NOTES & LEGEND

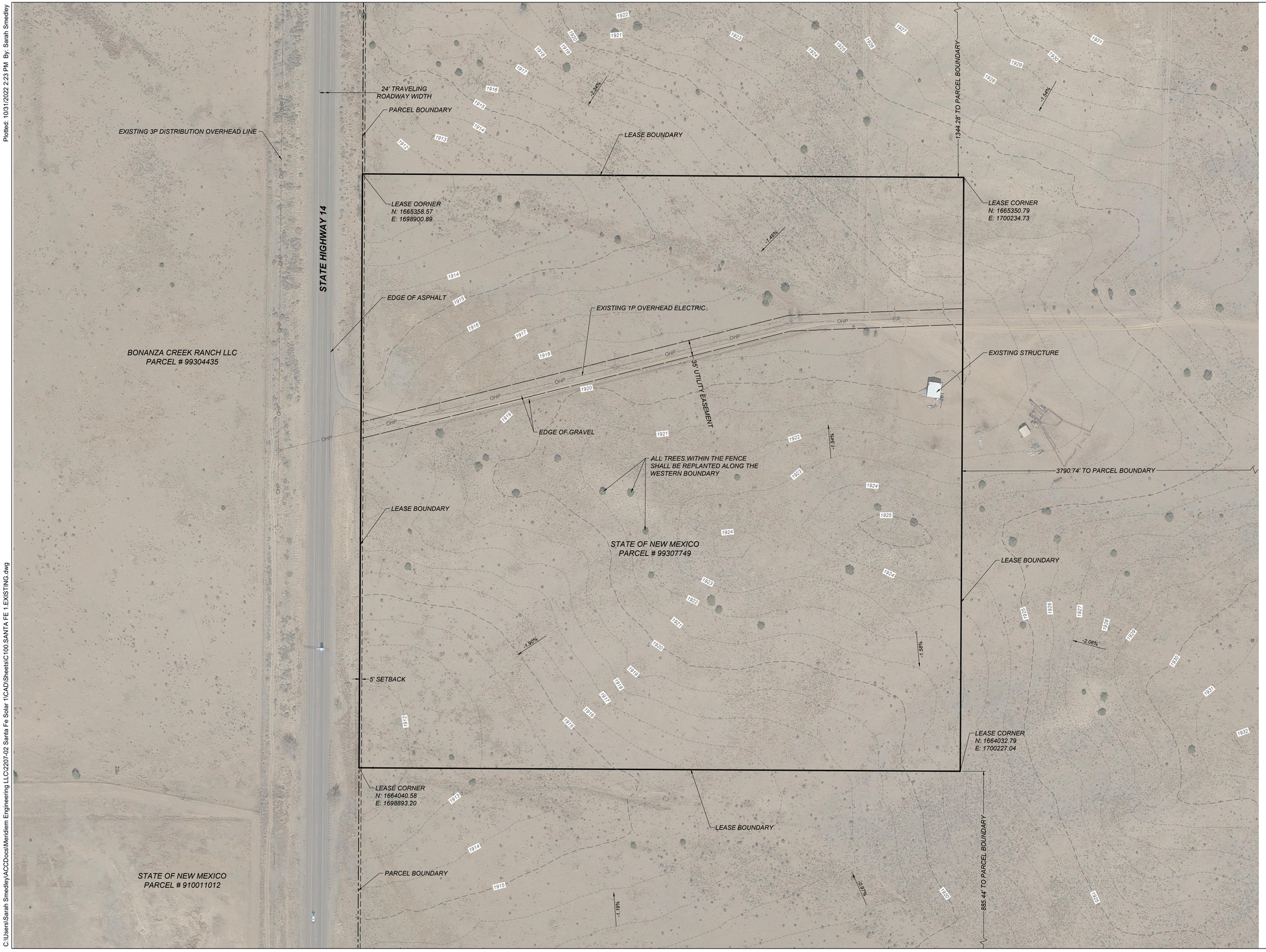
SHEET NUMBER
C001

SHEET SIZE
22"x34"

REVISION
0

Plotted: 10/31/2022 2:23 PM By: Sarah Smedley

C:\Users\Sarah Smedley\ACCDocs\Meridiem Engineering LLC\2207-02 Santa Fe Solar 1\CAD\Sheets\C100 SANTA FE 1.EXISTING.dwg



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PROJECT

SANTA FE SOLAR 1 LLC

4396 NM HIGHWAY 14
SANTA FE, NEW MEXICO 87508

SHEET NAME

EXISTING CONDITIONS

SHEET NUMBER

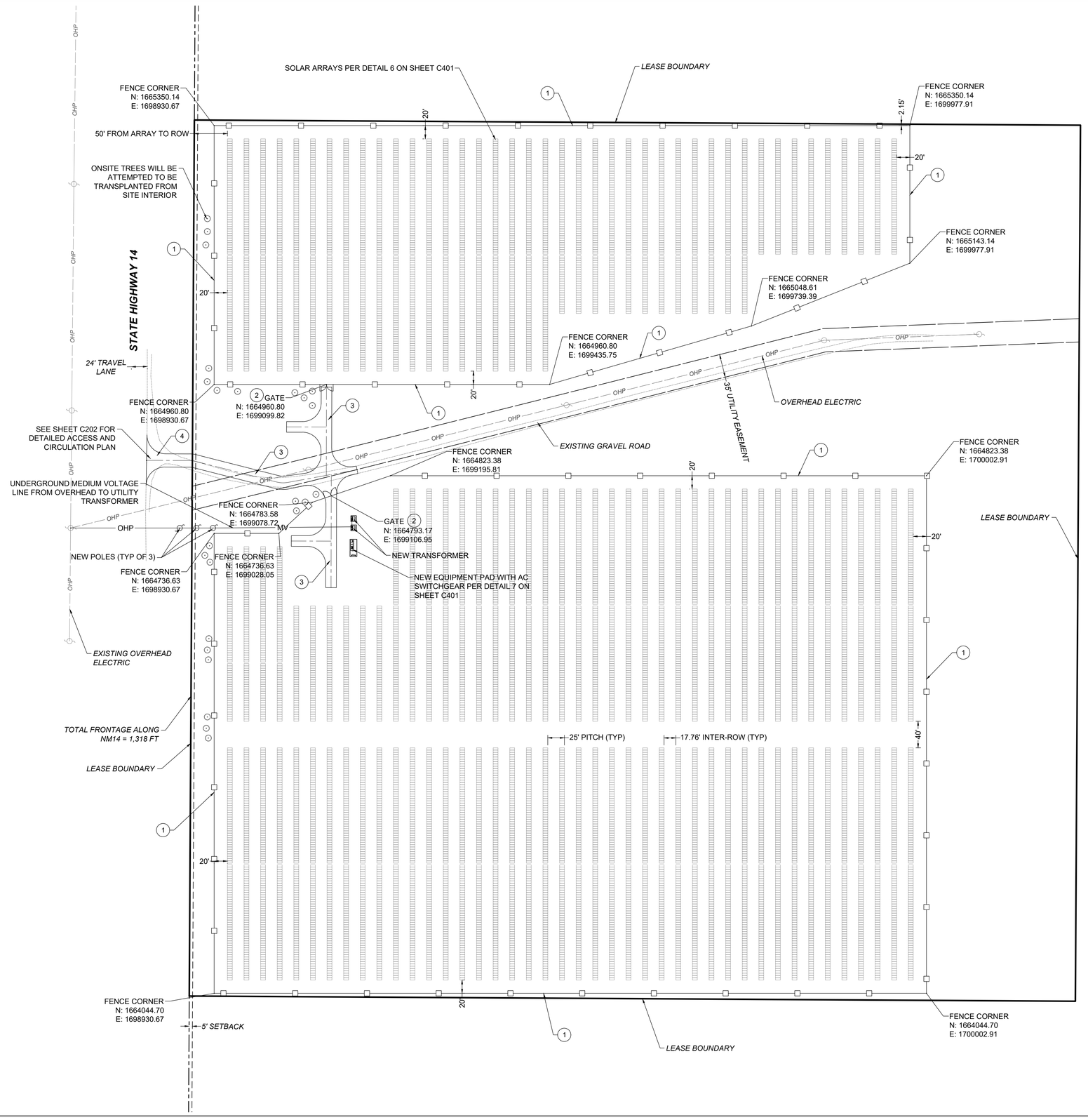
C101

SHEET SIZE

22"x34"

REVISION

0



N

0 40 80 160

SCALE: 1" = 80'

CONSTRUCTION NOTES

1. CONSTRUCT 7' GAME FENCE PER DETAIL 1 & 2 ON SHEET C401. OWNER MAY CHOOSE TO INSTALL 6-8' CHAIN LINK WITH BARBED WIRE IF NEEDED FOR ADDITIONAL SECURITY
2. CONSTRUCT 20' WIDE DRIVE GATE WITH FIRE DEPARTMENT KNOX BOX PER DETAIL 3 ON SHEET C401
3. CONSTRUCT 16'-20' WIDE GRAVEL ACCESS ROAD PER DETAIL 4 ON SHEET C401
4. CONSTRUCT 20' WIDE ASPHALT ENTRANCE PER DETAIL 5 ON SHEET C401

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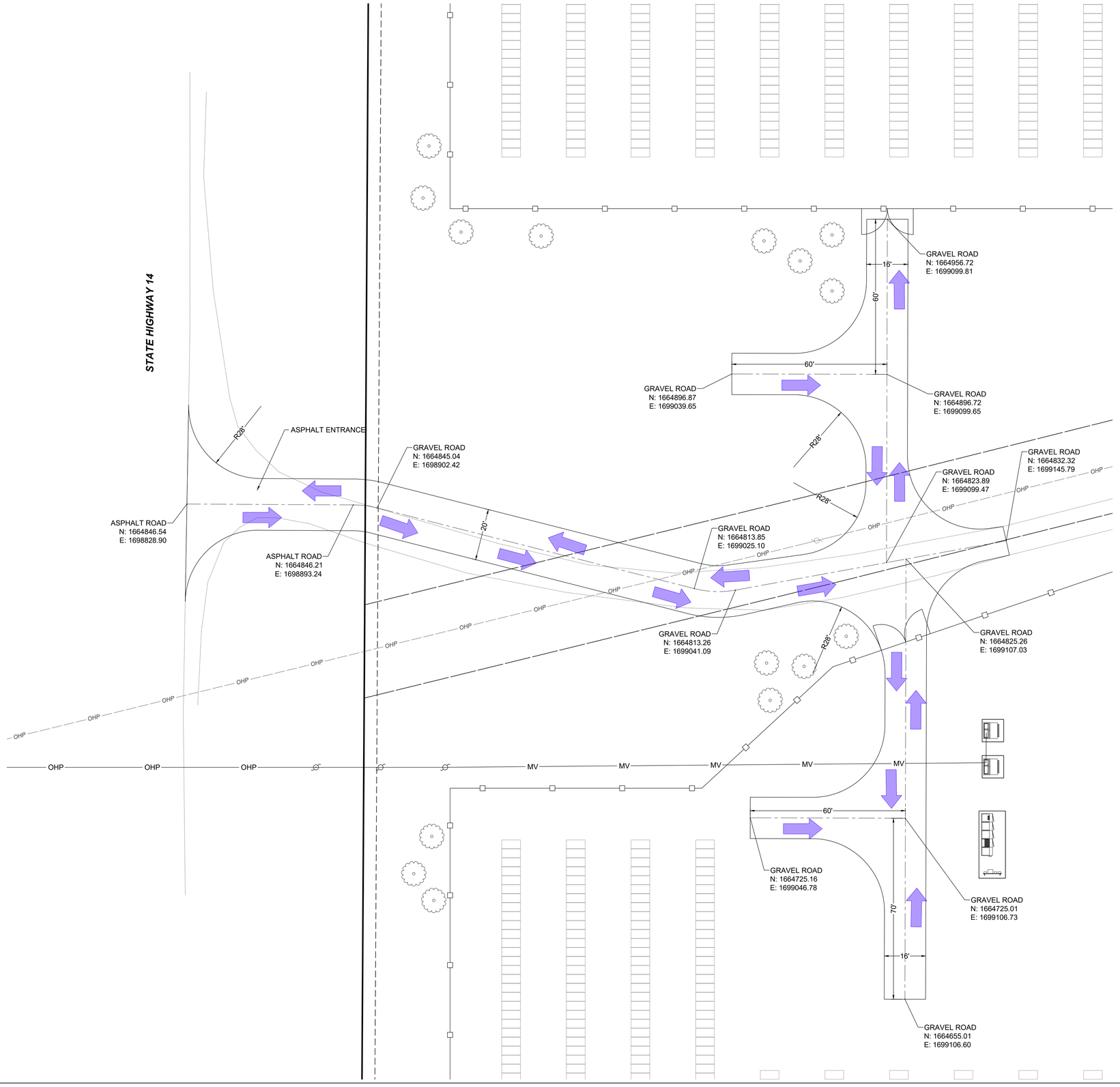
SANTA FE SOLAR 1 LLC
4396 NM HIGHWAY 14
SANTA FE, NEW MEXICO 87508

SHEET NAME
SITE PLAN

SHEET NUMBER
C201

SHEET SIZE
22"x34"

REVISION
0



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0 10 20 40

SCALE: 1" = 20'

LEGEND

PROPOSED DELIVERY FLOW ARROWS

ENGINEER

MERIDIEM ENGINEERING

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SANTA FE, NEW MEXICO 87508

SHEET NAME

ACCESS & CIRCULATION PLAN

SHEET NUMBER

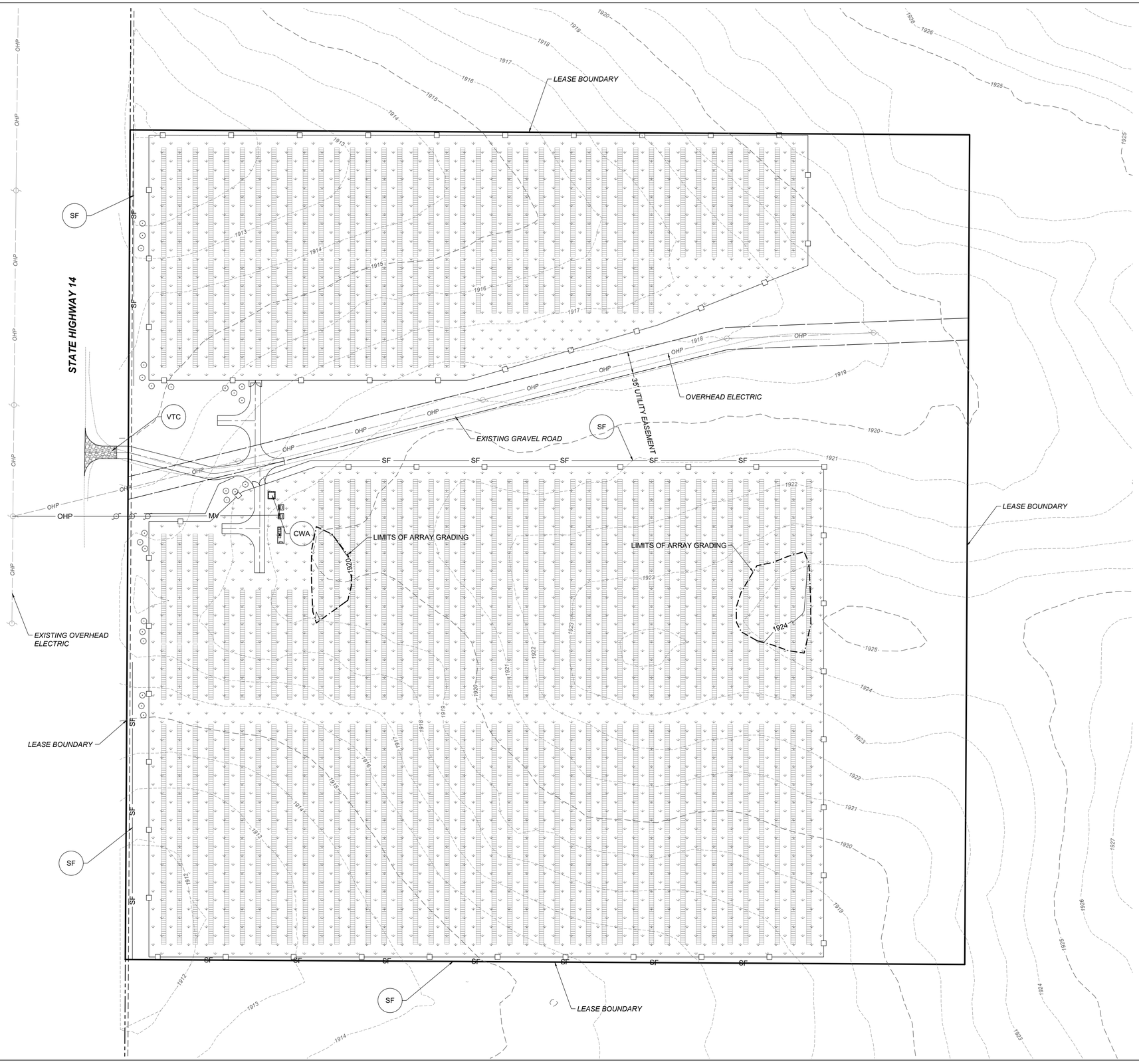
C202

SHEET SIZE

22"x34"

REVISION

0



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0 40 80 160

SCALE: 1" = 80'

BMP LEGEND

- CWA — CONCRETE WASTE AREA PER DETAIL 1 ON SHEET C402
- SF — SILT FENCE PER DETAIL 2 ON SHEET C402
- VTC — VEHICLE TRACKOUT CONTROL PER DETAIL 3 ON SHEET C402
- NATIVE SEEDING - TO INCLUDE NATIVE POLLINATORS AND GRASSES. VEGETATION WILL BE CLOSELY CROPPED TO MITIGATE FIRE RISK

NOTE:

TOTAL AREA OF DISTURBANCE DUE TO GRADING, PILES, PADS & ROAD = 0.70 AC

CUT = 204 CY
FILL = 0 CY
NET = 204 CY*

*ALL CUT MATERIAL FROM THE ARRAY WILL BE KEPT ON SITE AND USED TO FILL IN SMALL DEPRESSED AREAS

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NO.	DATE	DESCRIPTION
0	10/31/2022	COMMUNITY SOLAR SDP SUBMITTAL

PROJECT

SANTA FE SOLAR 1 LLC
4396 NM HIGHWAY 14
SANTA FE, NEW MEXICO 87508

SHEET NAME

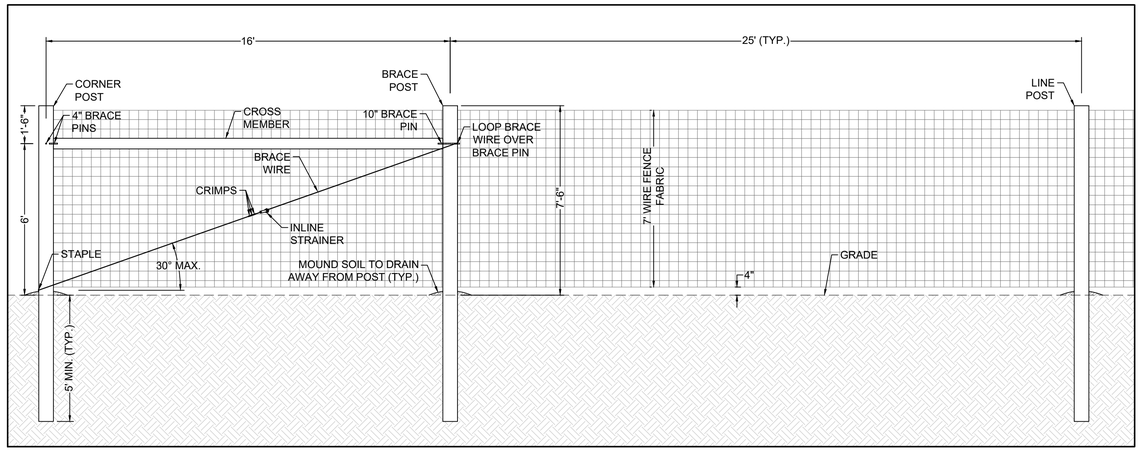
GRADING & EROSION CONTROL PLAN

SHEET NUMBER

C301

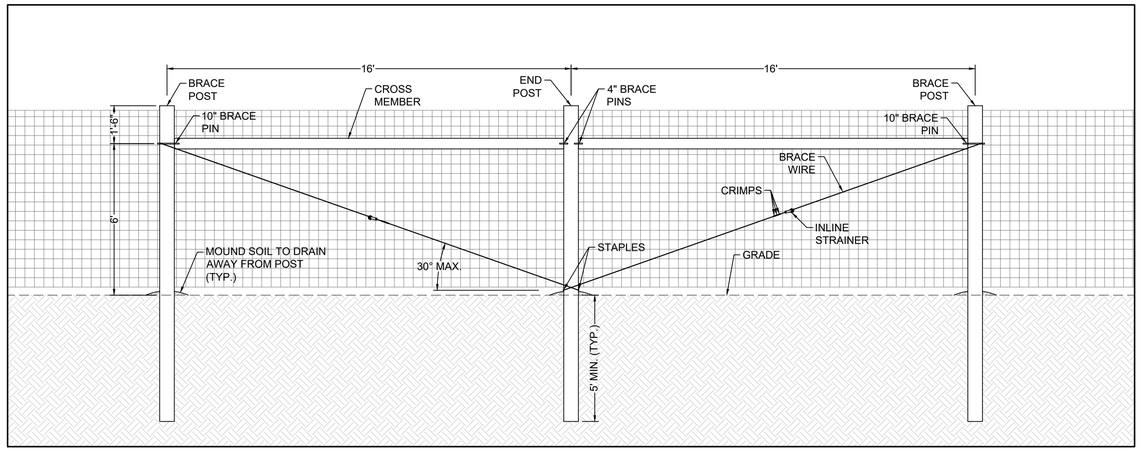
SHEET SIZE: 22"x34"

REVISION: 0



1 PERIMETER GAME FENCE*

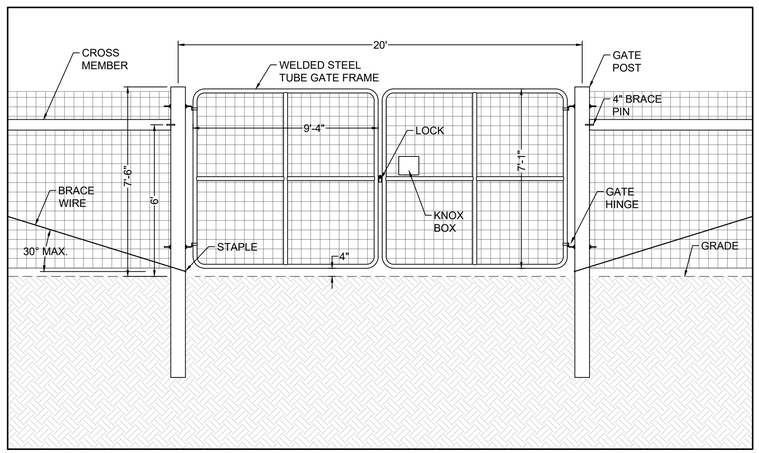
SCALE: 1"=3' VIEW: ELEVATION



2 GAME FENCE BRACE PANEL*

SCALE: 1"=3' VIEW: ELEVATION

*GAME FENCE MAY BE SUBSTITUTED WITH 6-8' TALL CHAIN LINK FENCE WITH 1' BARBED WIRE IF NECESSARY FOR SECURITY.



3 DRIVE GATE

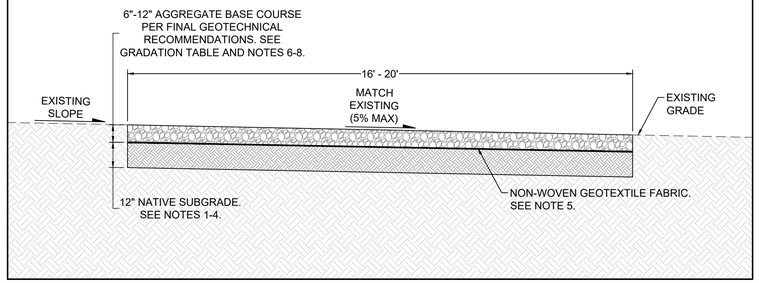
SCALE: 1"=3' VIEW: ELEVATION

GAME FENCE & GATE NOTES

1. FENCE DESIGN SHALL COMPLY WITH THE SPECIFICATIONS OF SECTION 110.31 "ENCLOSURE FOR ELECTRICAL INSTALLATIONS" FROM THE LATEST VERSION OF THE NATIONAL ELECTRIC CODE.
2. ALL HARDWARE, FENCE FABRIC AND OTHER METAL COMPONENTS SHALL BE HOT-DIP GALVANIZED IN ACCORDANCE WITH ASTM A123.
3. FENCE FABRIC SHALL BE 12-1/2 GAUGE HIGH TENSILE CLASS 3 WELDED WIRE MESH WITH 4" OPENINGS.
4. SOFTWOOD POSTS SHALL BE PRESSURE TREATED WITH CHROMATE COPPER ARSENATE WITH A MINIMUM LEVEL OF 0.40%. HARDWOOD POSTS DO NOT REQUIRE TREATMENT.
5. VERTICAL POSTS (CORNER, BRACE, LINE, END, AND GATE) SHALL BE 7" DIAMETER HARDWOOD OR TREATED SOFTWOOD.
6. CROSS MEMBERS SHALL BE 5" DIAMETER WOOD POSTS.
7. BRACE PINS SHALL BE 1/2" DIAMETER OR GREATER.
8. BRACE WIRE SHALL BE DOUBLE WRAPPED 12-1/2 GAUGE HI-TENSILE WIRE.
9. STAPLES SHALL BE 1-3/4" DOUBLE BARBED SPACED AT 12" MAX.
10. BRACE SECTIONS SHALL BE USED AT TERMINAL AND ANGLE POINTS AND WHERE THE DISTANCE BETWEEN BRACED SECTIONS EXCEEDS 1320'.
11. GATES ALONG THE PERIMETER SHALL HAVE HEAVY DUTY BOLT-CUTTER RESISTANT PADLOCKS

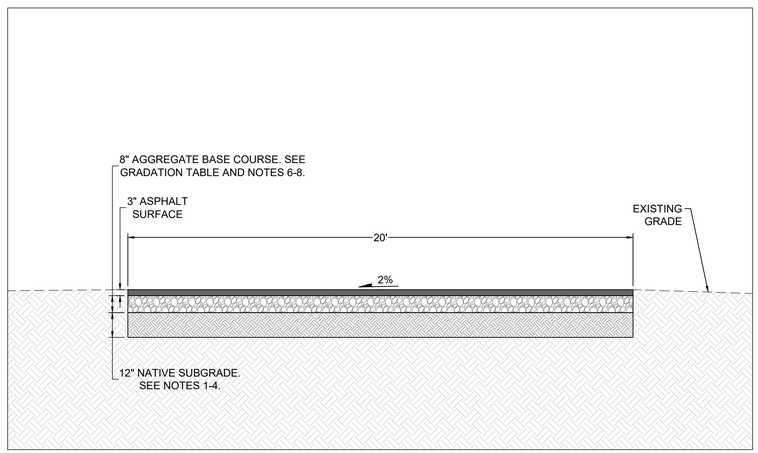
AGGREGATE GRADATION TABLE

SIEVE SIZE	PERCENT PASSING
1 INCH (25.00 MM)	100
3/4 INCH (19.00 MM)	80-100
NO. 4 (4.75 MM)	30-60
NO. 10 (2.00 MM)	20-45
NO. 200 (.075 MM)	3-10



4 AT-GRADE ACCESS ROAD

SCALE: 1"=3' VIEW: SECTION

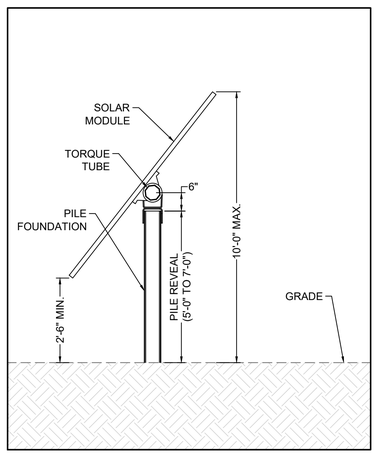


5 ASPHALT ENTRANCE

SCALE: 1"=3' VIEW: SECTION

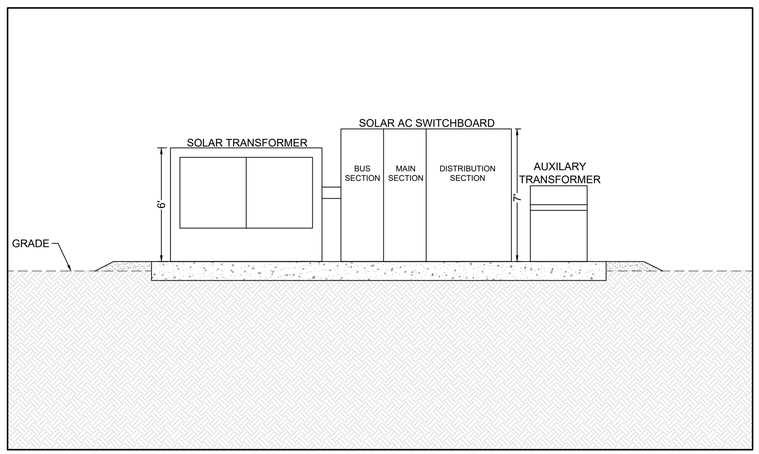
ENTRANCE & ACCESS ROAD NOTES

1. SOIL PREPARATION SHALL INCLUDE THE REMOVAL OF EXISTING VEGETATION, CULTIVATED SOIL, TOPSOIL, AND OTHER SOFT, UNSUITABLE OR DELETERIOUS MATERIAL AND CLODS OR FRAGMENTS LARGER THAN 3" IN ANY DIMENSION.
2. NATIVE MATERIAL SHALL BE SCARIFIED TO THE FULL DEPTH OF THE SUBGRADE AND MIXED TO ACHIEVE UNIFORM MOISTURE CONTENT AT ±3% OF OPTIMUM AND RECOMPACTED TO 95% OF THE MAXIMUM DRY DENSITY USING STANDARD PROCTOR METHOD (ASTM-D698).
3. THE COMPACTED SUBGRADE SHALL BE PROOF ROLLED AND SOFT OR UNYIELDING AREAS OR LOW POINTS WHICH MAY COLLECT WATER SHALL BE REPAIRED IN PLACE BY ADDITIONAL DENSIFICATION/COMPACTION, OR REPLACED WITH ENGINEERED FILL.
4. IF FROZEN SOILS ARE ENCOUNTERED THEY SHALL BE REMOVED AND REPLACED WITH SUITABLE FILL PRIOR TO PLACING SUBGRADE OR SURFACE MATERIAL.
5. PROTRUDING SHARP OBJECTS SHALL BE REMOVED FROM THE FINISHED SUBGRADE PRIOR TO PLACING THE GEOTEXTILE.
6. SURFACE AGGREGATE SHALL CONFORM TO NMDOT STANDARD SPEC 303.
7. AGGREGATES SHALL BE FREE FROM LARGE QUANTITIES OF DUST, SOFT OR FLAKY PARTICLES, LOAMS, ALKALI, ORGANIC MATTER, PAPER, WOOD, OR OTHER DELETERIOUS MATTER.
8. SURFACE AGGREGATE SHALL BE COMPACTED TO 95% MAXIMUM DRY DENSITY AT ±3% OF THE OPTIMUM MOISTURE CONTENT USING STANDARD PROCTOR METHOD (ASTM-D698).
9. UPON COMPLETION OF CONSTRUCTION THE ROAD SURFACE SHALL BE INSPECTED FOR RUTTING AND ANY LOW POINTS SHALL BE RESTORED TO FINISHED GRADE AND TEMPORARY ROADS UTILIZED DURING CONSTRUCTION SHALL BE REMOVED AND RESTORED TO PRE-CONSTRUCTION CONDITION.



6 SINGLE-AXIS TRACKER

SCALE: 1"=2' VIEW: ELEVATION



7 EQUIPMENT PAD

SCALE: 1"=2' VIEW: ELEVATION

ENGINEER
MERIDIEM ENGINEERING

OWNER/DEVELOPER/OPERATOR
Pivot Energy

PRELIMINARY
NOT FOR CONSTRUCTION

SARAH SMEDLEY NEW MEXICO 22978 PROFESSIONAL ENGINEER
10/31/2022

REVISIONS

NO.	DATE	DESCRIPTION
0	10/31/2022	COMMUNITY SOLAR SDP SUBMITTAL

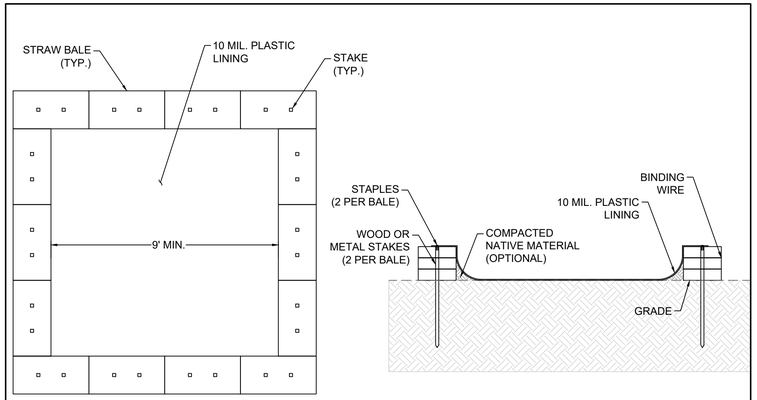
PROJECT
SANTA FE SOLAR 1 LLC
4396 NM HIGHWAY 14
SANTA FE, NEW MEXICO 87508

SHEET NAME
SITE DETAILS

SHEET NUMBER
C401

SHEET SIZE
22"x34"

REVISION
0

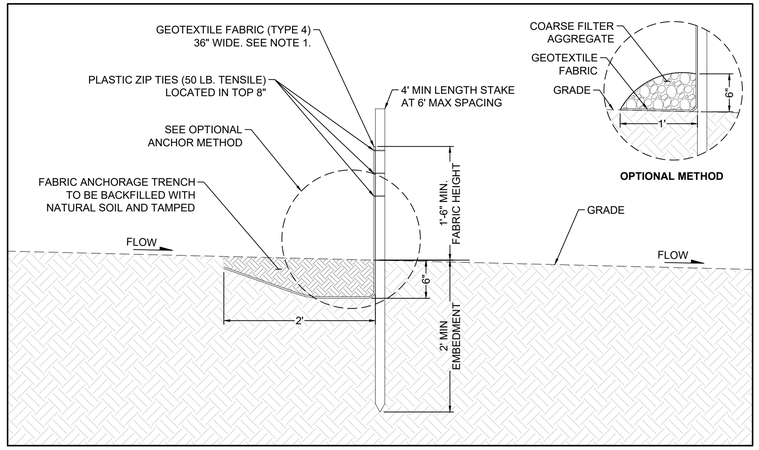


1 CONCRETE WASTE AREA

SCALE: 1"=2' VIEW: PLAN/SECTION

CONCRETE WASTE AREA NOTES

1. PERFORM WASHOUT OF CONCRETE MIXERS, DELIVERY TRUCKS, AND OTHER DELIVERY SYSTEMS IN DESIGNATED AREA ONLY.
2. TEMPORARY CONCRETE WASHOUT FACILITIES SHALL BE LOCATED A MINIMUM OF 50 FEET FROM STORM DRAIN INLETS, OPEN DRAINAGE FACILITIES, AND WATERBODIES. EACH FACILITY IS TO BE LOCATED AWAY FROM CONSTRUCTION TRAFFIC OR ACCESS AREAS TO PREVENT DISTURBANCE OR TRACKING.
3. TEMPORARY CONCRETE WASHOUT FACILITIES MUST BE CONSTRUCTED AND MAINTAINED IN SUFFICIENT QUANTITY AND SIZE TO CONTAIN ALL LIQUID AND CONCRETE WASTE GENERATED BY WASHOUT OPERATIONS. TEMPORARY CONCRETE WASHOUT FACILITIES SHOULD BE MAINTAINED TO PROVIDE ADEQUATE HOLDING CAPACITY. A MINIMUM FREEBOARD OF 4 INCHES FOR ABOVE GROUND FACILITIES AND 12 INCHES FOR BELOW GROUND FACILITIES SHALL BE MAINTAINED.
4. WASHOUT MAY BE COLLECTED IN AN IMPERMEABLE BAG OR OTHER IMPERMEABLE CONTAINMENT DEVICE FOR DISPOSAL.
5. ONCE CONCRETE WASTES ARE WASHED INTO THE DESIGNATED AREA AND ALLOWED TO HARDEN, THE CONCRETE MAY BE BROKEN UP, REMOVED AND DISPOSED OF.
6. CONCENTRATED RESIDUE FROM SAW CUTTING, CORING AND GRINDING OPERATIONS WILL BE PICKED UP BY MEANS OF A VACUUM DEVICE. THIS CONCENTRATED RESIDUE IS NOT TO BE ALLOWED TO FLOW ACROSS THE PAVEMENT AND CANNOT BE LEFT ON THE SURFACE OF THE PAVEMENT.

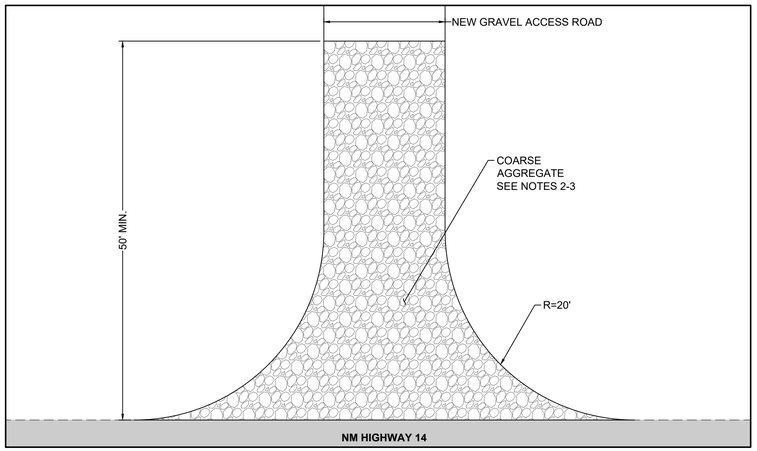


2 SILT FENCE

SCALE: 1"=1' VIEW: SECTION

SILT FENCE NOTES

1. GEOTEXTILE FABRIC SHALL BE A WOVEN OR NONWOVEN SYNTHETIC FIBER FABRIC COMPLYING WITH AASHTO M288.
2. GEOTEXTILE FABRIC SHALL BE SPLICED TOGETHER WITH A SEWN SEAM AT A SUPPORT POST, OR TWO SECTIONS OF FENCE MAY BE OVERLAPPED INSTEAD.
3. THE FENCE SHOULD FOLLOW THE CONTOUR OF THE SLOPE TO THE MAXIMUM AMOUNT PRACTICABLE AND HAVE NO DIPS OR LOW AREAS WHERE WATER WILL ACCUMULATE AND POOL. POOLED WATER IS A MAJOR CAUSE OF FAILURE BECAUSE OF THE HIGH PRESSURE IT PLACES ON THE FENCE.
4. ENDS OF THE FENCE SHOULD ALWAYS BE ANGLED UP SLOPE SO WATER CANNOT FLOW AROUND THEM.
5. THE MAXIMUM UP SLOPE GRADE PERPENDICULAR TO THE FENCE LINE SHOULD NOT EXCEED 1:1.
6. INSPECT BMPS ACCORDING TO NORMAL MAINTENANCE SCHEDULE.
7. INSPECTION SHOULD INCLUDE ENSURING FABRIC IS PROPERLY TRENCHED INTO THE GROUND AND FABRIC IS NOT TORN OR SAGGING.
8. SEDIMENT REMOVAL AND DISPOSAL IS REQUIRED WHEN SEDIMENT COVERS 1/3 OF THE HEIGHT OF THE FENCE.



3 VEHICLE TRACKOUT CONTROL

SCALE: 1"=10' VIEW: PLAN

VEHICLE TRACKOUT NOTES

1. ALL CONSTRUCTION TRAFFIC IS TO EXIT THE SITE THROUGH THE STABILIZED EXIT.
2. THE ROCK PAD SHALL BE 3" COARSE AGGREGATE SPREAD EVENLY 6" THICK WITH A NONWOVEN GEOTEXTILE FABRIC BENEATH.
3. INSPECT DAILY FOR SEDIMENT ACCUMULATION WHICH MAY AFFECT PERFORMANCE. IF THE EFFECTIVENESS OF SEDIMENT REMOVAL IS REDUCED CLEAN AND REGRADE THE EXISTING ROCK OR ADD ADDITIONAL ROCK TO INCREASE THE PAD THICKNESS AND/OR LENGTH UNTIL EFFECTIVENESS IS RESTORED.
4. ENSURE THAT ANY WASH WATER USED IS DRAINED TO A SEDIMENT TRAP.

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MERIDIEM ENGINEERING

OWNER/DEVELOPER/OPERATOR
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SANTA FE, NEW MEXICO 87508

SHEET NAME
BMP DETAILS

SHEET NUMBER
C402

SHEET SIZE
22"x34"

REVISION
0