

# GRADING & EROSION CONTROL PLAN

FOR  
**Mr. DILLON DUPONT**  
161 OAK ROCK ROAD, GARBERVILLE, CA  
APN: 222-071-030

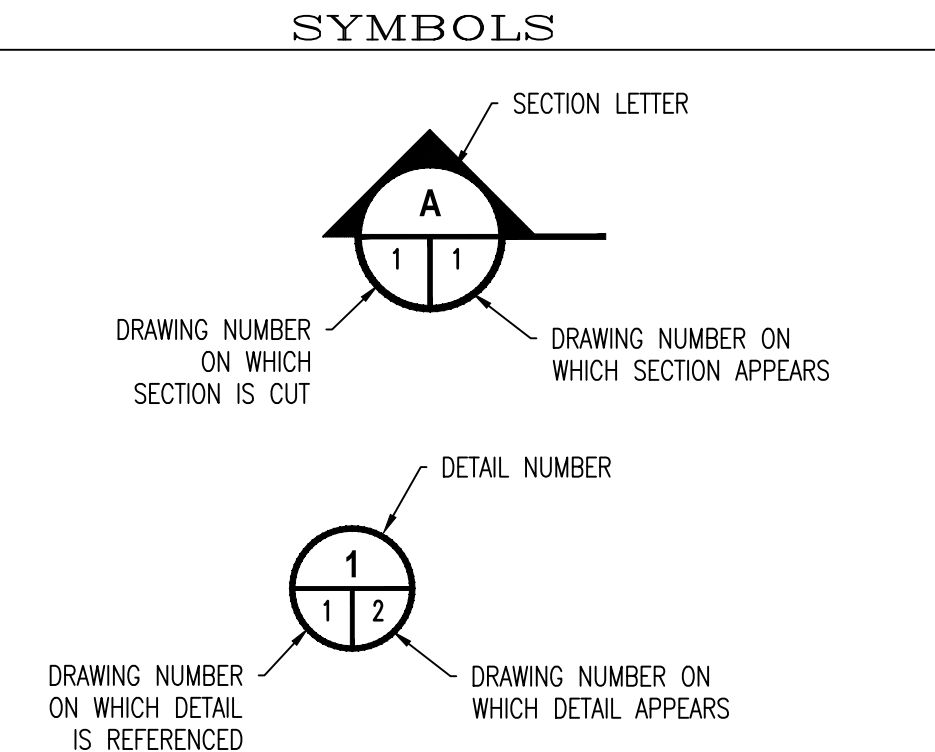
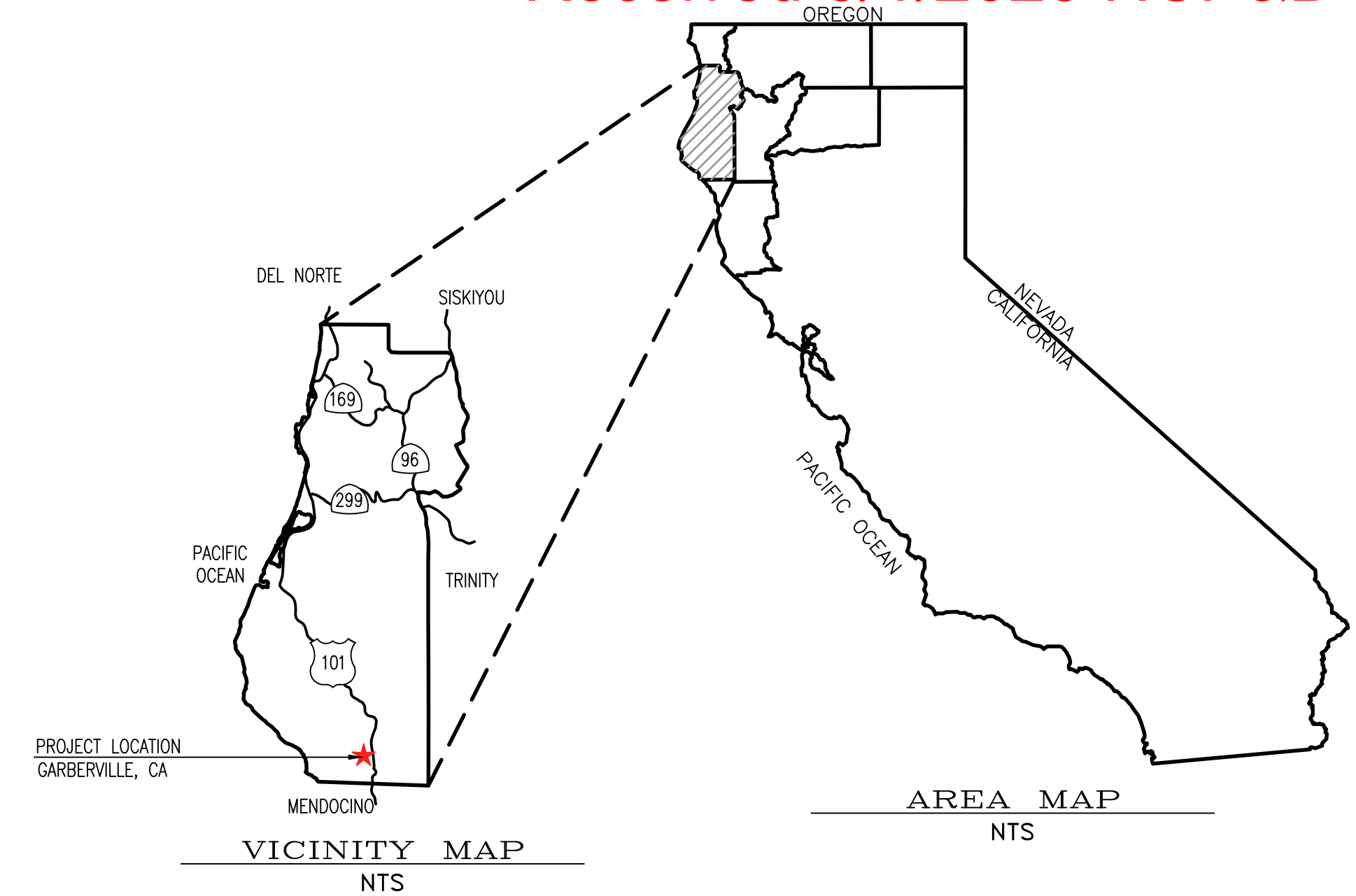
Received 6/1/2023 HCP&B

**LEGEND**

PROPOSED	EXISTING

**ABBREVIATIONS**

AC	= ASPHALTIC CONCRETE
AB	= AGGREGATE BASE
A.D.	= ALGEBRAIC DIFFERENCE
BC, PC	= BEGIN CURVE
CO	= CLEAN OUT
CL	= CENTER LINE
CMP	= CORRUGATED METAL PIPE
CPCT.	= COMPACT
D	= DELTA
DET	= DETAIL
DRN	= DRAIN
<A>	= EXISTING
EC	= END CURVE
EG	= EXISTING GROUND
EP	= EDGE OF PAVEMENT
FF	= FINISH FLOOR
FG	= FINISH GRADE
FH	= FIRE HYDRANT
FL	= FLOW LINE
GA	= GUY ANCHOR
GV	= GATE VALVE
HC	= HANDICAPPED
HDPE	= HIGH DENSITY POLYETHYLENE PIPE
INV	= INVERT
(NT-X)	= INTERSECTION
K	= SIGHT DISTANCE
LAT	= LATERAL
LD.	= LOCAL DEPRESSION
LF.	= LINEAR FEET
LF.	= SEWER LEACH FIELD
LT.	= LEFT
MAS.	= MASONRY
MI	= MILES
MSE	= MECHANICALLY STABILIZED EARTH
(N)	= NEW
NTS	= NOT TO SCALE
O.C.	= ON CENTER
PG&E	= PACIFIC GAS & ELECTRIC
(P)	= PROPOSED
PP	= POWER POLE
PRC	= POINT OF REVERSE CURVE
PT	= POINT
PVI	= POINT OF VERTICAL INTERSECTION
PVT	= PRIVATE
RT	= RIGHT
RTN	= RETURN
SB	= SET BACK
SDMH	= STORM DRAIN MAN HOLE
SHT	= SHEET
SD	= STORM DRAIN
STA	= STATION
STD.	= STANDARD
TC	= TOP OF CURB
TBC	= TOP BACK OF CURB
TFC	= TOP FACE OF CURB
TOB	= TOP OF BANK
TEL	= TELEPHONE
TP	= TOP OF PAVEMENT
TVCE	= TRINITY VALLEY CONSULTING ENGINEERS
TW	= TOP OF WALL
(TYP)	= TYPICAL
UG	= UNDERGROUND
W	= WATER
WV	= WATER VALVE



**SHEET INDEX**

DRAWING #	TITLE	REVISION	DATE
T01	TITLE SHEET	0	05/24/23
C00	NOTES	0	05/24/23
C01	PLOT PLAN	0	05/24/23
C02.1	EXISTING GRADING & DRAINAGE PLAN	0	05/24/23
C02.2	PROPOSED GRADING & DRAINAGE PLAN	0	05/24/23
C03.1	SITE SECTIONS	0	05/24/23
C03.2	SITE SECTIONS	0	05/24/23
C04.1	EROSION CONTROL PLAN	0	05/24/23

**ENGINEERING NOTES**

ALL REQUIREMENTS FROM THE SOILS REPORT HAVE BEEN INCORPORATED INTO THESE PLANS.

THE ENGINEER OF RECORD SHALL INSPECT ALL SITE GRADING.

**SURVEY NOTES**

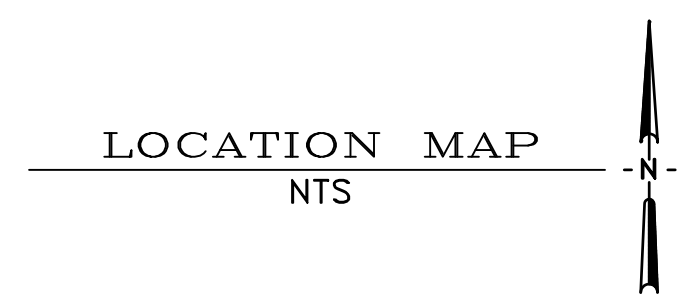
FIELD SURVEY FOR TOPOGRAPHIC PURPOSES WAS PERFORMED BY TVCE ON JANUARY 4, 2021

A BOUNDARY SURVEY WAS NOT CONDUCTED BY TVCE.

**CONTRACTOR ALERT!**

CONTRACTOR MUST CONTACT USA DIG AT 800-227-2600 AT LEAST 72 HOURS BEFORE ANY EARTHWORK OR ACTIVITIES THAT MAY IMPACT EXISTING UNDERGROUND UTILITIES.

EXISTING UTILITY ALIGNMENTS BOTH HORIZONTALLY AND VERTICALLY MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO ANY CONSTRUCTION ACTIVITIES.



REV	DATE	DESCRIPTION	APP'D BY

Mr. DILLON DUPONT

**TITLE SHEET**

480 RANCH ROAD, GARBERVILLE, CA  
APN: 222-071-028 & 222-071-030

DATE OF ISSUE:  
May 23

SCALE:  
AS SHOWN

PROJECT NO:  
1557.02

DRAWING NO:  
T01

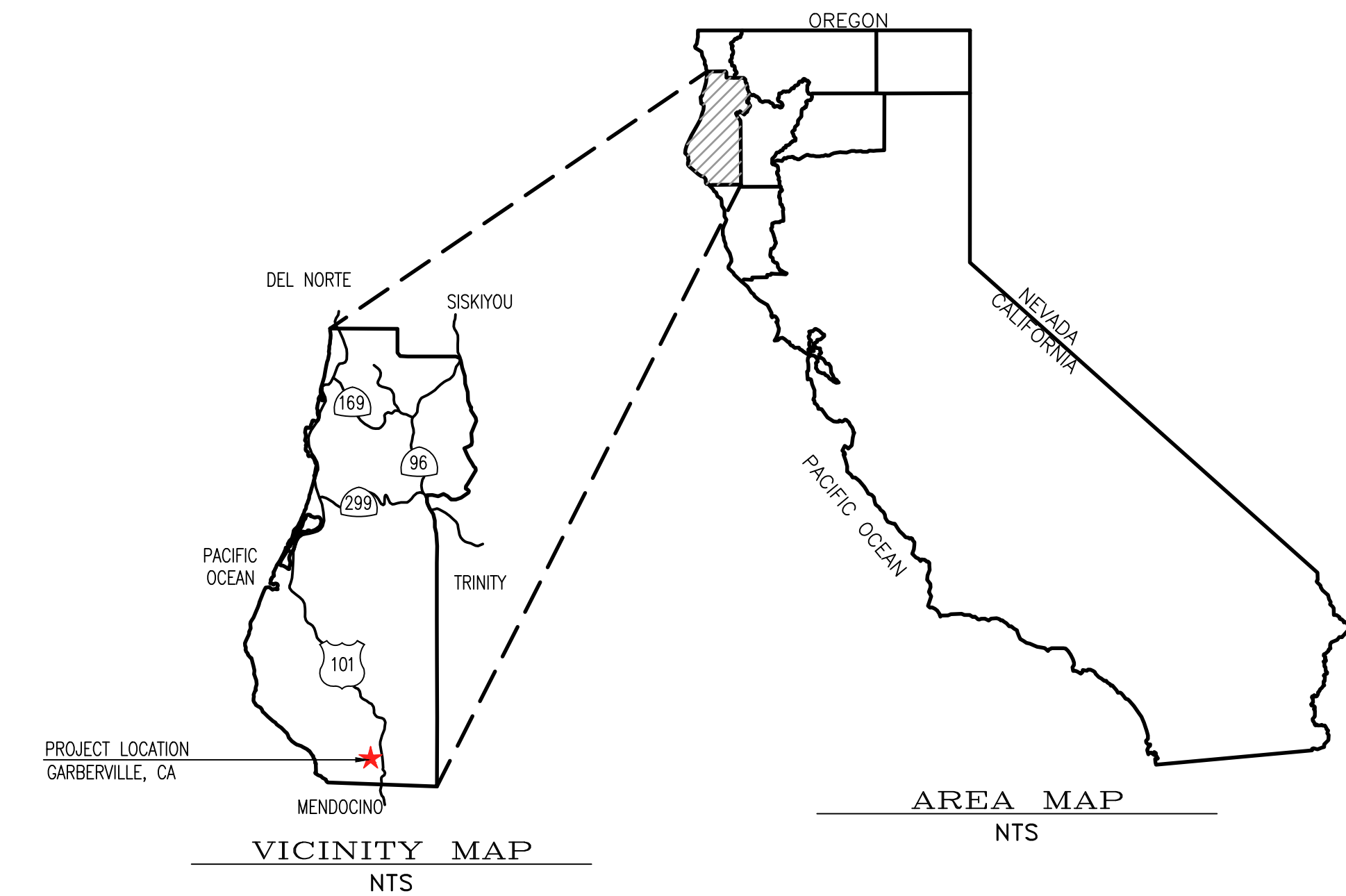




# PLOT PLAN

FOR  
**Mr. DILLON DUPONT**  
 161 OAK ROCK ROAD, GARBERVILLE, CA  
 APN: 222-071-030

PROJECT LOCATION  
 GARBERVILLE, CA



**TVCE**

67 WALNUT WAY  
 WILLOW CREEK, CA 95579  
 P:(530)629-3000  
 F:(530)629-3011

REGISTERED PROFESSIONAL ENGINEER  
 JOSHUA T. MCKNIGHT  
 RCE 60687  
 Exp. 12/31/24  
 CIVIL  
 STATE OF CALIFORNIA

REV	DATE	DESCRIPTION	CHK BY	APP BY

**GENERAL NOTES**

WATER: DIVERSION (TO BE REMOVED)  
 WASTEWATER: NONE  
 POWER: NONE  
 PHONE: NONE  
 CREEKS/STREAMS: DURPHY CREEK  
 TREES TO BE REMOVED: NONE  
 GRADING: SEE GRADING PLAN

**SRA REQUIREMENTS**

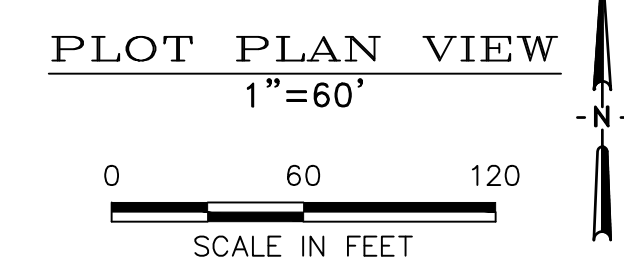
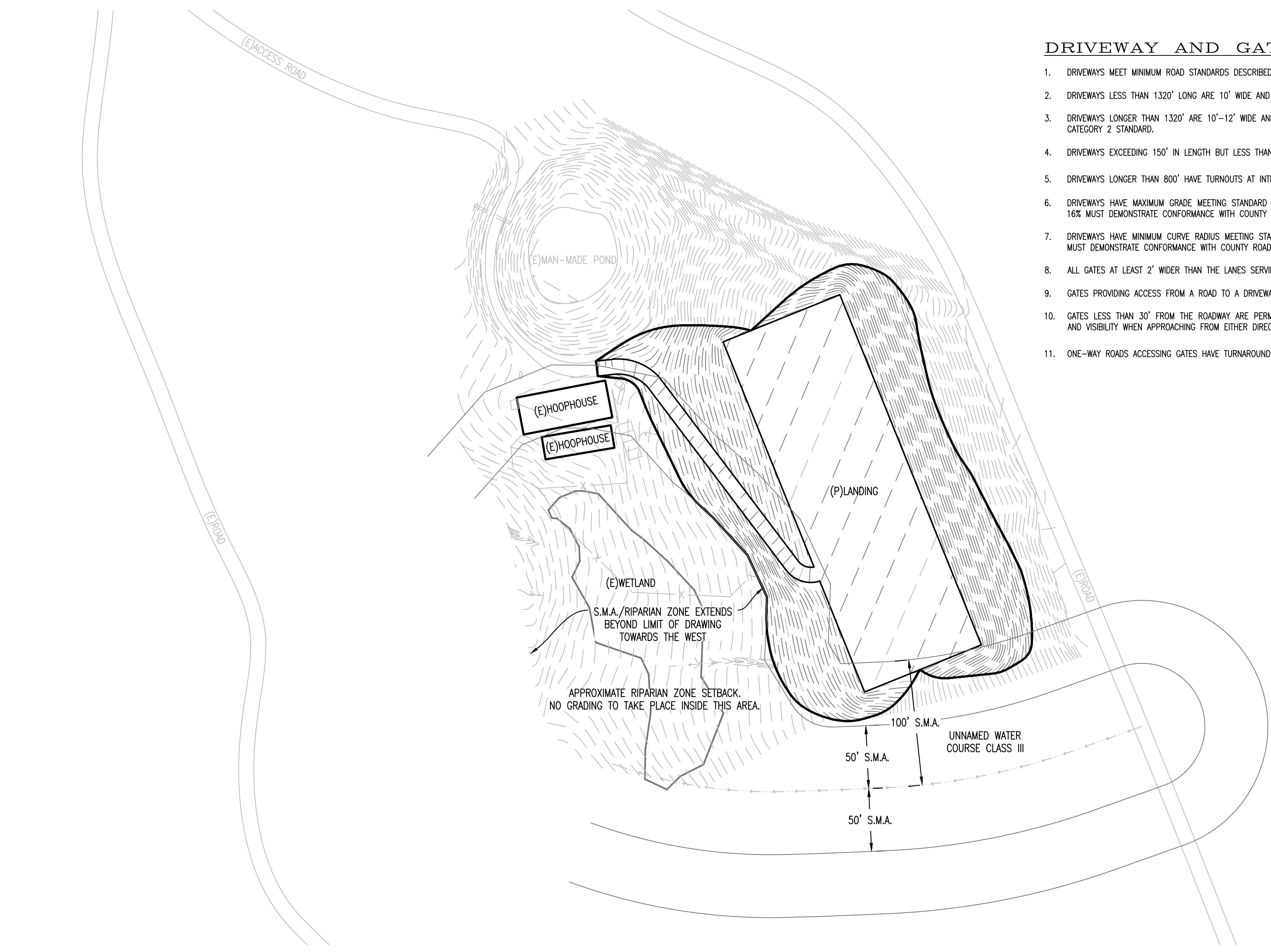
PROVIDE ADEQUATE WATER STORAGE AND DELIVERY AS OUTLINED BY SRA ORDINANCE AND CALFIRE REQUIREMENTS

PROVIDE ADEQUATE TURN AROUND AND PULLOUTS AS OUTLINED BY SRA ORDINANCE REQUIREMENTS AND CALFIRE REQUIREMENTS

- DRIVEWAY AND GATES:**
- DRIVEWAYS MEET MINIMUM ROAD STANDARDS DESCRIBED ABOVE.
  - DRIVEWAYS LESS THAN 1320' LONG ARE 10' WIDE AND HAVE 15' MINIMUM VERTICAL CLEARANCE AND ARE BUILT TO COUNTY ROAD CATEGORY 1 STANDARD.
  - DRIVEWAYS LONGER THAN 1320' ARE 10'-12' WIDE AND HAVE 15' MINIMUM VERTICAL CLEARANCE WITH INTERVISIBLE TURNOUTS AND ARE BUILT TO COUNTY ROAD CATEGORY 2 STANDARD.
  - DRIVEWAYS EXCEEDING 150' IN LENGTH BUT LESS THAN 800' HAVE A TURNOUT NEAR THE MIDPOINT
  - DRIVEWAYS LONGER THAN 800' HAVE TURNOUTS AT INTERVISIBLE LOCATIONS AT APPROXIMATELY 400' INTERVALS.
  - DRIVEWAYS HAVE MAXIMUM GRADE MEETING STANDARD FOR COUNTY ROAD CATEGORY 1; 7% - 12% (NORMAL); 11% - 18% (TOLERABLE). GRADE IN EXCESS OF 16% MUST DEMONSTRATE CONFORMANCE WITH COUNTY ROADWAY DESIGN MANUAL.
  - DRIVEWAYS HAVE MINIMUM CURVE RADIUS MEETING STANDARD FOR COUNTY ROAD CATEGORY 1; 120' (NORMAL); 50' (TOLERABLE). CURVE RADIUS LESS THAN 50' MUST DEMONSTRATE CONFORMANCE WITH COUNTY ROADWAY DESIGN MANUAL.
  - ALL GATES AT LEAST 2' WIDER THAN THE LANES SERVING THE GATE AND ALLOW A VEHICLE TO STOP WITHOUT BLOCKING TRAFFIC.
  - GATES PROVIDING ACCESS FROM A ROAD TO A DRIVEWAY ARE LOCATED AT LEAST 30' FROM THE ROADWAY EXCEPT AS PROVIDED BELOW.
  - GATES LESS THAN 30' FROM THE ROADWAY ARE PERMITTED WHEN TURNOUTS ARE CONSTRUCTED NEXT TO THE TRAVEL LANES WITH SAFE TURNING MOVEMENTS AND VISIBILITY WHEN APPROACHING FROM EITHER DIRECTION OF TRAVEL.
  - ONE-WAY ROADS ACCESSING GATES HAVE TURNAROUND WITH 40' RADIUS MINIMUM.

**DOMESTIC EMERGENCY WATER SUPPLY SYSTEM**

- THE MINIMUM EMERGENCY WATER STORAGE VOLUME OF 2,500 GALLONS EASILY AVAILABLE FOR FIRE USE.
- THE EMERGENCY SUPPLY MAY BE SEPARATE FROM THE DOMESTIC SUPPLY OR IT MAY BE SHARED. WHEN SHARED, AND IF THE REFILLING SUPPLY SOURCE (WELL, ETC.) CANNOT KEEP UP WITH THE DAILY DOMESTIC USE; THE AMOUNT STORED SHOULD BE INCREASED SO THAT 2,500 GALLONS ARE AVAILABLE FOR FIRE USE ANY TIME OF DAY.
- THE WATER HYDRANT OR PLACE FOR WATER SUCTION MUST NOT BE FURTHER THAN 1/2 MILE FROM THE DWELLING, OR CLOSER THAN 50 FEET TO THE BUILDING USING ROAD MEASUREMENTS. PARCELS 10 ACRES OR LESS MUST HAVE THE HYDRANT/SUCTION WITHIN 500 FEET; AND IF THIS IS PHYSICALLY IMPOSSIBLE, WITHIN 1,000 FEET.
- ALL HYDRANT AND WATER SUCTION LOCATIONS MUST PROVIDE A ROAD STANDARD TURNOUT OR TURNAROUND.
- ALL WATER SUPPLY HYDRANTS AND SUCTION LOCATIONS MUST BE IDENTIFIED WITH A 3 INCH REFLECTORIZED BLUE DOT LOCATED 3 TO 5 FEET ABOVE THE GROUND ON A POST THAT IS WITHIN 3 FEET OF THE HYDRANT. IF LOCATED OFF A DRIVEWAY, ANOTHER BLUE DOT MUST BE ATTACHED TO THE DRIVEWAY ADDRESS SIGN. ROAD SIGNS STATING "FIRE WATER" ARE AN ACCEPTABLE ALTERNATIVE.
- ALL EXPOSED PLUMBING SHOULD HAVE FREEZE PROTECTION AND CRASH BARRIERS AS NEEDED TO PREVENT DAMAGE.
- ALL PIPES SUPPLYING WATER TO HYDRANTS MUST BE AT LEAST 3 INCHES IN DIAMETER. SMALLER DESIGNS MUST PROVE THEMSELVES ABLE TO PROVIDE A 200 GPM FLOW FROM THE HYDRANT CONNECTION.
- ALL HYDRANTS MUST BE 18 INCHES ABOVE GROUND, AT LEAST 8 FEET FROM FLAMMABLE VEGETATION, AT LEAST 4 FEET FROM THE PARKING SURFACE WHERE THE FIRE EQUIPMENT WILL BE WHEN USING IT AND NO MORE THAN 12 FEET FROM THE PARKING SURFACE.
- ALL HYDRANTS MUST HAVE A 2-1/2 INCH, MAKE NATIONAL HOSE CONNECTION WITH CAP.
- ALL HYDRANTS/VALVES AND CONNECTIONS MUST BE MADE OF BRASS OR OTHER CORROSION RESISTANT MATERIAL.
- A WET HYDRANT USED WITH A GRAVITY SUPPLY OR PRESSURE SYSTEM MUST HAVE A 2-1/2 INCH VALVE.
- A DRY HYDRANT USED FOR WATER SUCTION DOES NOT NEED A VALVE, BUT DOES REQUIRE A STRAINER (PERFORATED PIPE LENGTH) AT THE END OF THE SUCTION PIPE. THE STRAINER MUST BE AT LEAST 3 FEET LONG.
- WHERE A PUMP IS RELIED UPON TO DELIVER WATER TO THE HYDRANT (NOT GRAVITY AND NOT SUCTION); IT MUST DELIVER 200 GALLONS PER MINUTE TO THE HYDRANT. IF IT IS AN ELECTRICALLY POWERED PUMP, IT MUST HAVE A FUELED ENGINE BACKUP (OR GENERATOR). ALSO, A STRAINER IS REQUIRED.
- WHERE GRAVITY IS USED TO GET THE WATER TO THE HYDRANT, THE SOURCE (TANK) MUST BE AT LEAST 8 FEET HIGHER THAN THE HYDRANT SO THAT ALL 2,500 GALLONS CAN DRAIN OUT WITHOUT SUCTION. ALSO, THE TANK SHOULD BE NO MORE THAN 600 FEET ABOVE THE HYDRANT; OR HAVE A PRESSURE REDUCER RESTRICTING TO 250 PSI.
- WHERE SUCTION IS NEEDED TO GET THE WATER UP OUT OF A SOURCE (BY HOSE, DRY HYDRANT OR PUMP) FROM A NATURAL POND, UNDERGROUND TANK, SWIMMING POOL, ETC., THE END OF THE HOSE OR DRY HYDRANT PIPE STRAINER MUST HAVE 2 FEET OF WATER ABOVE IS AT ALL TIMES TO PREVENT CAVITATION (A VORTEX FUNNEL THAT ALLOWS AIR TO BE SUCKED IN). ALSO, THE END OF THE SUCTION HOSE OR DRY HYDRANT PIPE STRAINER MUST BE HELD 1 FOOT OFF THE BOTTOM OF STORAGE THAT CAN ACCUMULATE DEBRIS. THIS MEANS THAT THE BOTTOM 3 FEET OF STORAGE AT THE SUCTION POINT IS UNUSABLE AND AT LEAST 2,500 GALLONS MUST BE AVAILABLE 3 FEET ABOVE THE BOTTOM WHEN THE WATER IS AT THE LOWEST LEVEL OF THE YEAR.
- WHERE SUCTION THROUGH A DRY HYDRANT PIPE IS USED TO GET WATER UP TO A FIRE ENGINE, THE LEVEL WHERE THE SUCTION PIPE STRAINER IS MUST BE NO MORE THAN 15 FEET LOWER THAN THE HYDRANT CONNECTION.
- WHERE A FIRE ENGINE SUCTION HOSE IS NEEDED TO GET WATER (NO DRY HYDRANT), THE LEVEL WHERE THE STRAINER END OF THE SUCTION HOSE MUST GO CAN BE NO MORE THAN 10 FEET LOWER THAN THE SURFACE WHERE THE ENGINE PARKS. ALSO, THE TOTAL REACH FROM THE EDGE OF THE PARKING SURFACE TO WHERE THE END OF THE SUCTION HOSE MUST BE CAN REQUIRE NO MORE THAN 15 FEET OF SUCTION HOSE AND NO SHARP BENDS. THIS MEANS THAT A TACK WITH NO DRY HYDRANT WILL HAVE TO BE BELOW THE PARKING AREA, OR HAVE A LOW SIDE WALL, BECAUSE IT COULD TAKE MORE THAN 15 FEET OF HOSE TO REACH UP TO THE TOP OF A TANK AND THEN BACK TO THE BOTTOM, AND COULD REQUIRE A VERY SHARP BEND.



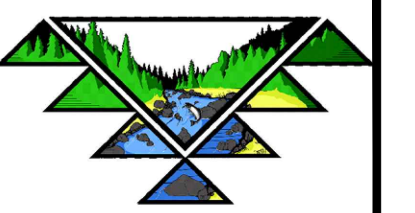
Mr. DILLON DUPONT  
**PLOT PLAN**  
 480 RANCH ROAD, GARBERVILLE, CA  
 APN: 222-071-028 & 222-071-030

DATE OF ISSUE:  
 May 23

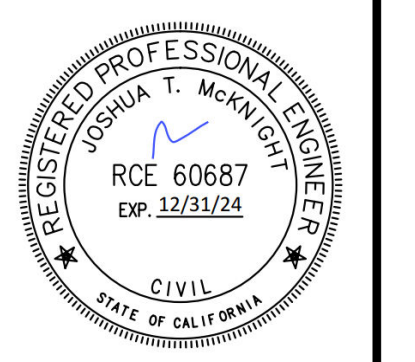
SCALE:  
 AS SHOWN

PROJECT NO:  
 1557.02

DRAWING NO:  
 C01



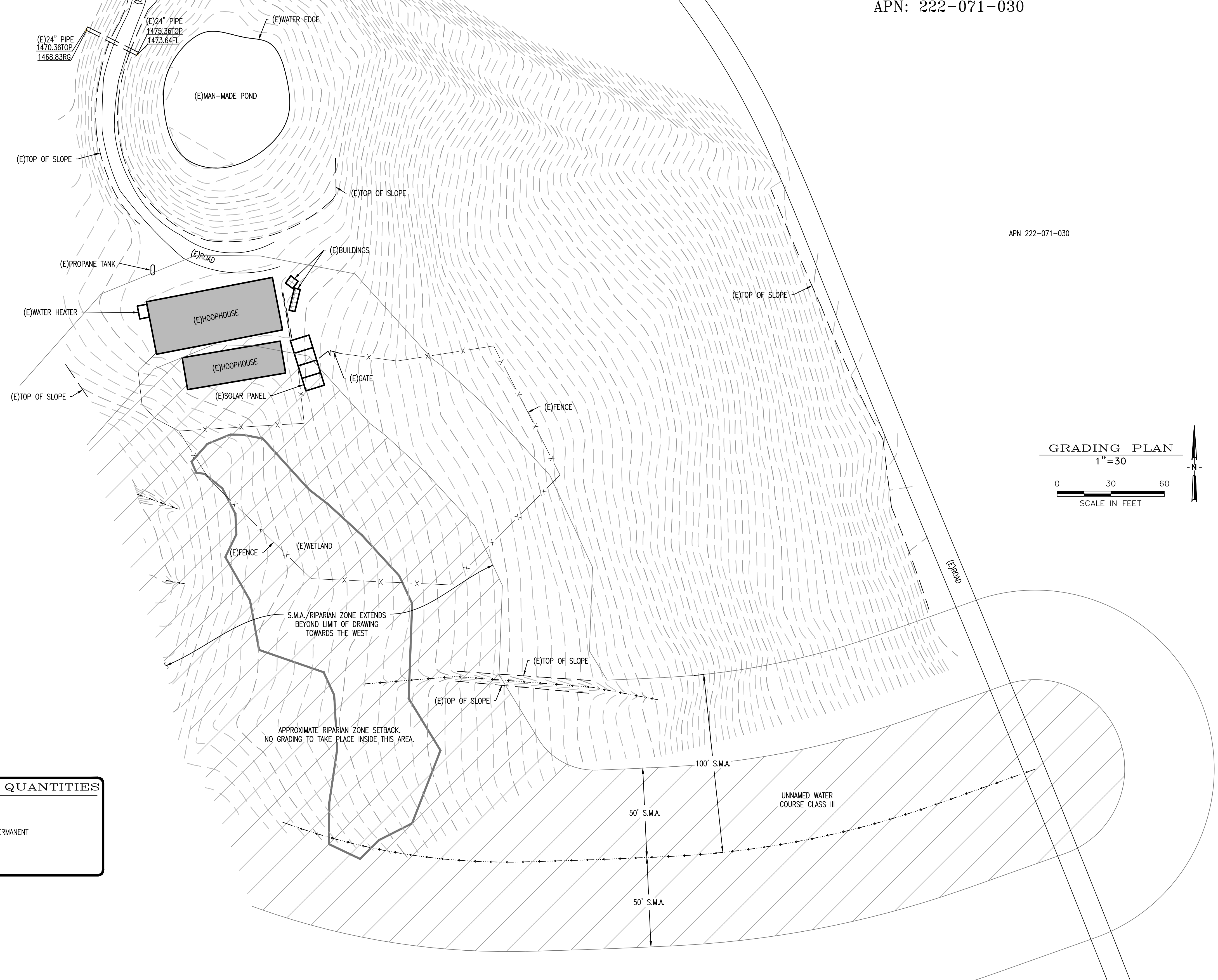
67 WALNUT WAY  
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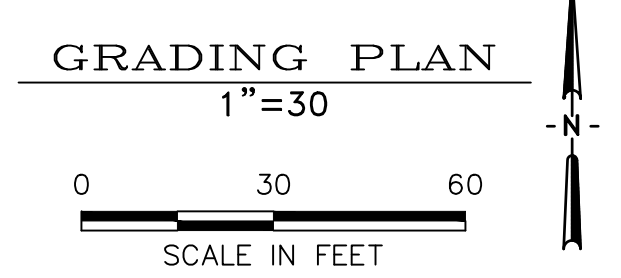
# EXISTING GRADING & DRAINAGE PLAN

FOR  
Mr. DILLON DUPONT  
161 OAK ROCK ROAD, GARBERVILLE, CA  
APN: 222-071-030

- LEGEND:**
- EXISTING GREENHOUSE
  - EXISTING BUILDING
  - EXISTING FENCE
  - DRAINAGE FLOW DIRECTION



APN 222-071-030

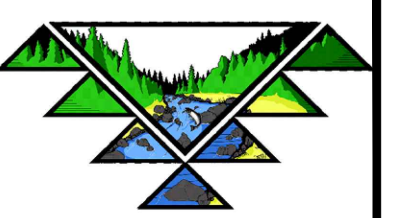


PRE-EARTHWORK QUANTITIES	
(E) CUT (CY):	4,426
(E) FILL (CY):	4,426
NOTE: CUT AND FILL QUANTITIES ONSITE TO BE PERMANENT	
ACRES DISTURBED:	±1.473 Ac

REV	DATE	DESCRIPTION	APP'D BY

Mr. DILLON DUPONT  
**EXISTING GRADING & DRAINAGE PLAN**  
480 RANCH ROAD, GARBERVILLE, CA  
APN: 222-071-028 & 222-071-030

DATE OF ISSUE:	May 23
SCALE:	AS SHOWN
PROJECT NO:	1557.02
DRAWING NO:	C02.1



67 WALNUT WAY  
PO BOX 1587  
WILLOW CREEK, CA 95573  
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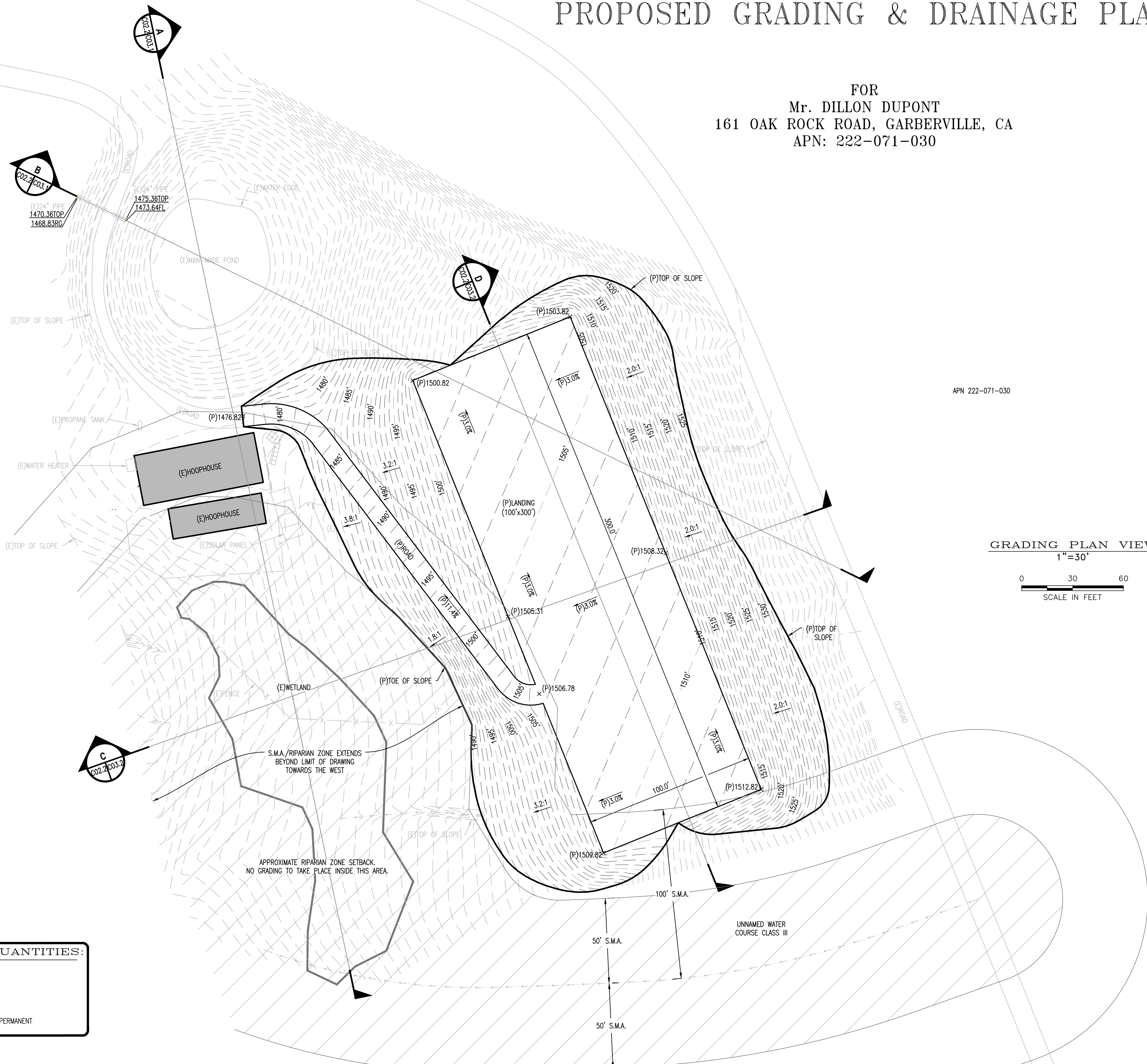
# PROPOSED GRADING & DRAINAGE PLAN

FOR  
**Mr. DILLON DUPONT**  
161 OAK ROCK ROAD, GARBERVILLE, CA  
APN: 222-071-030

APN 222-071-030

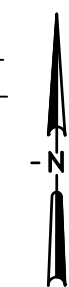
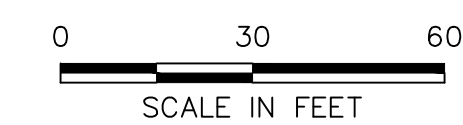
**LEGEND:**

- EXISTING GREENHOUSE
- EXISTING BUILDING
- EXISTING FENCE
- DRAINAGE FLOW DIRECTION



GRADING PLAN VIEW

1"=30'



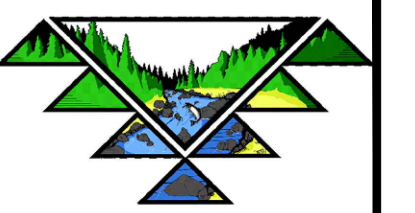
(P)EARTHWORK QUANTITIES:	
CUT (Cy):	6,128.5
FILL (Cy):	6,128.5
DISTURBED AREA (AC):	1.579
NOTE: CUT AND FILL QUANTITIES ONSITE TO BE PERMANENT	

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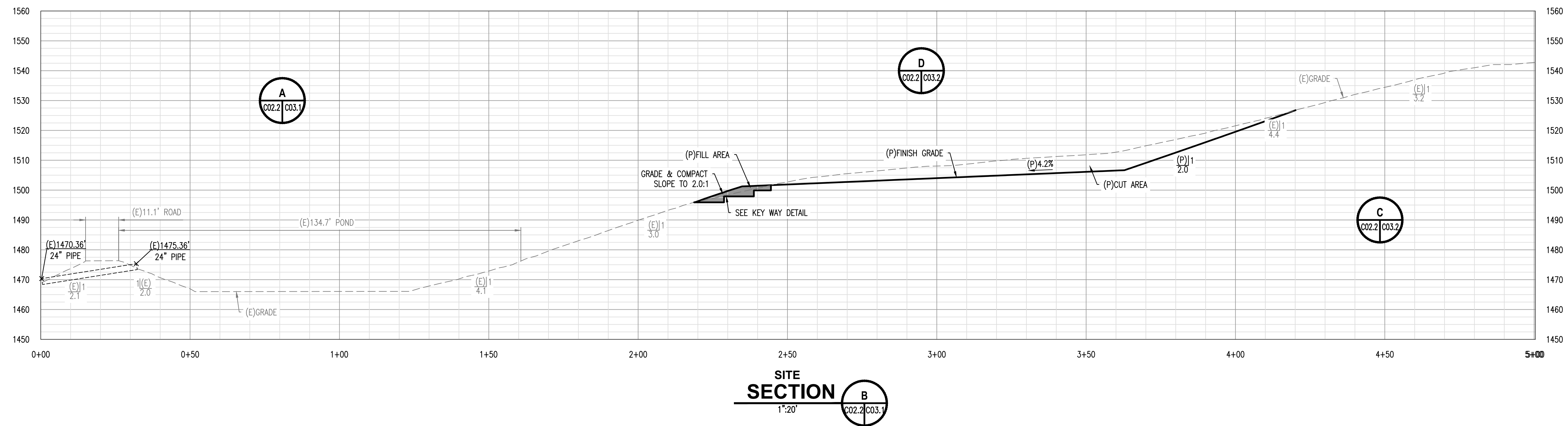
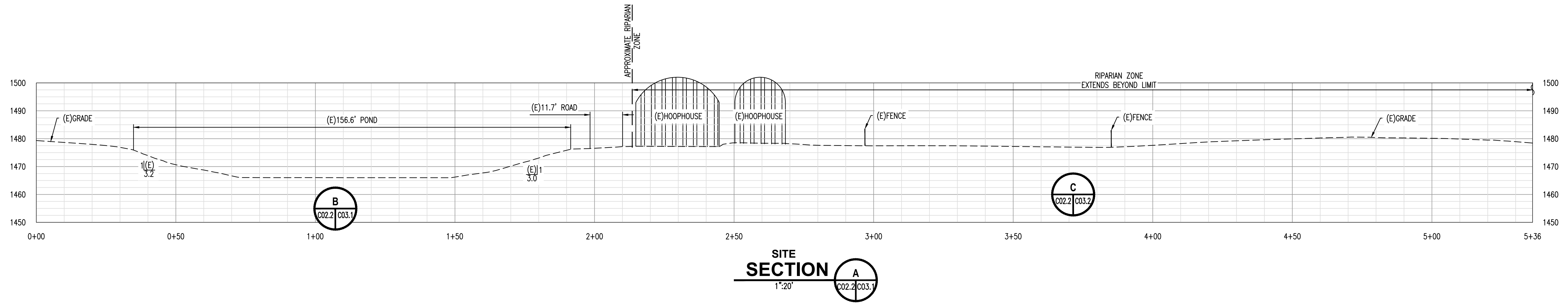
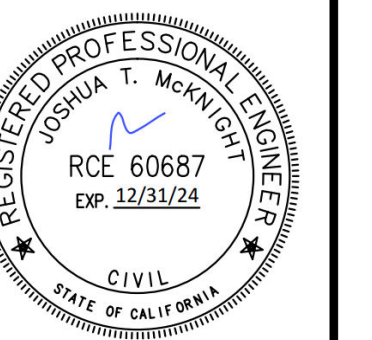
## PROPOSED GRADING & DRAINAGE PLAN

Mr. DILLON DUPONT  
480 RANCH ROAD, GARBERVILLE, CA  
APN: 222-071-028 & 222-071-030

DATE OF ISSUE:	May 23
SCALE:	AS SHOWN
PROJECT NO:	1557.02
DRAWING NO:	C02.2



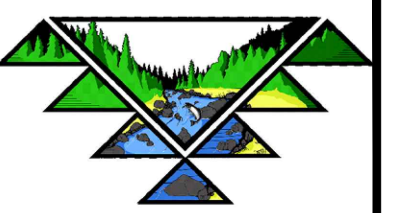
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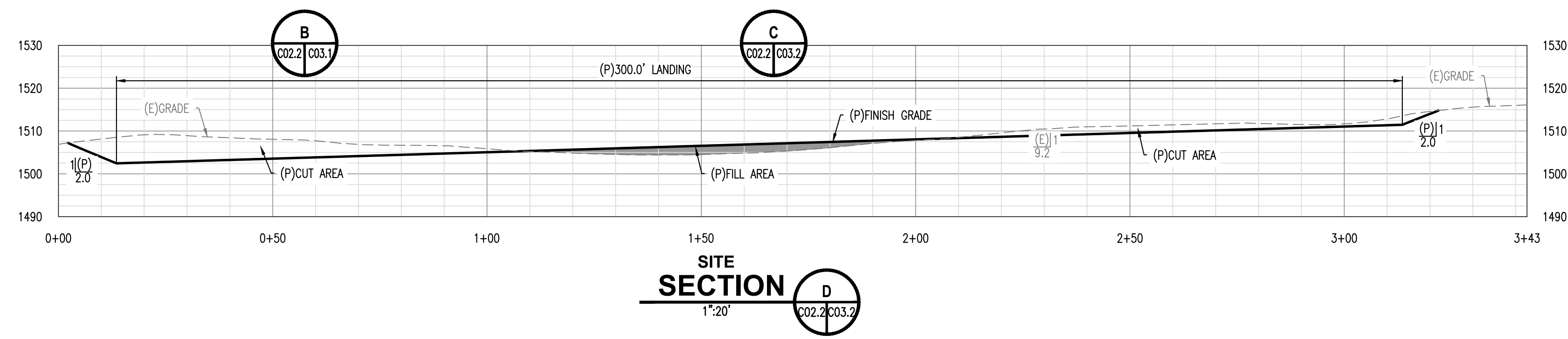
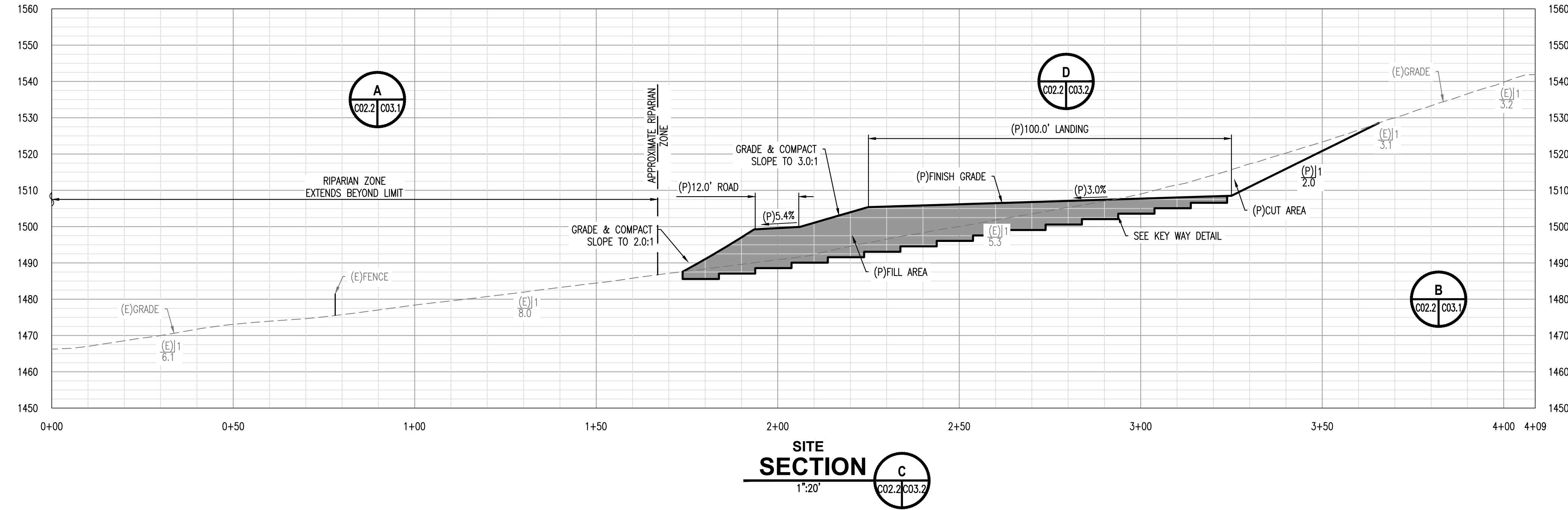
REV	DATE	DESCRIPTION	DWN BY	CHK BY	APP BY

Mr. DILLON DUPONT  
**SITE SECTIONS**  
480 RANCH ROAD, GARBERVILLE, CA  
APN: 222-071-028 & 222-071-030

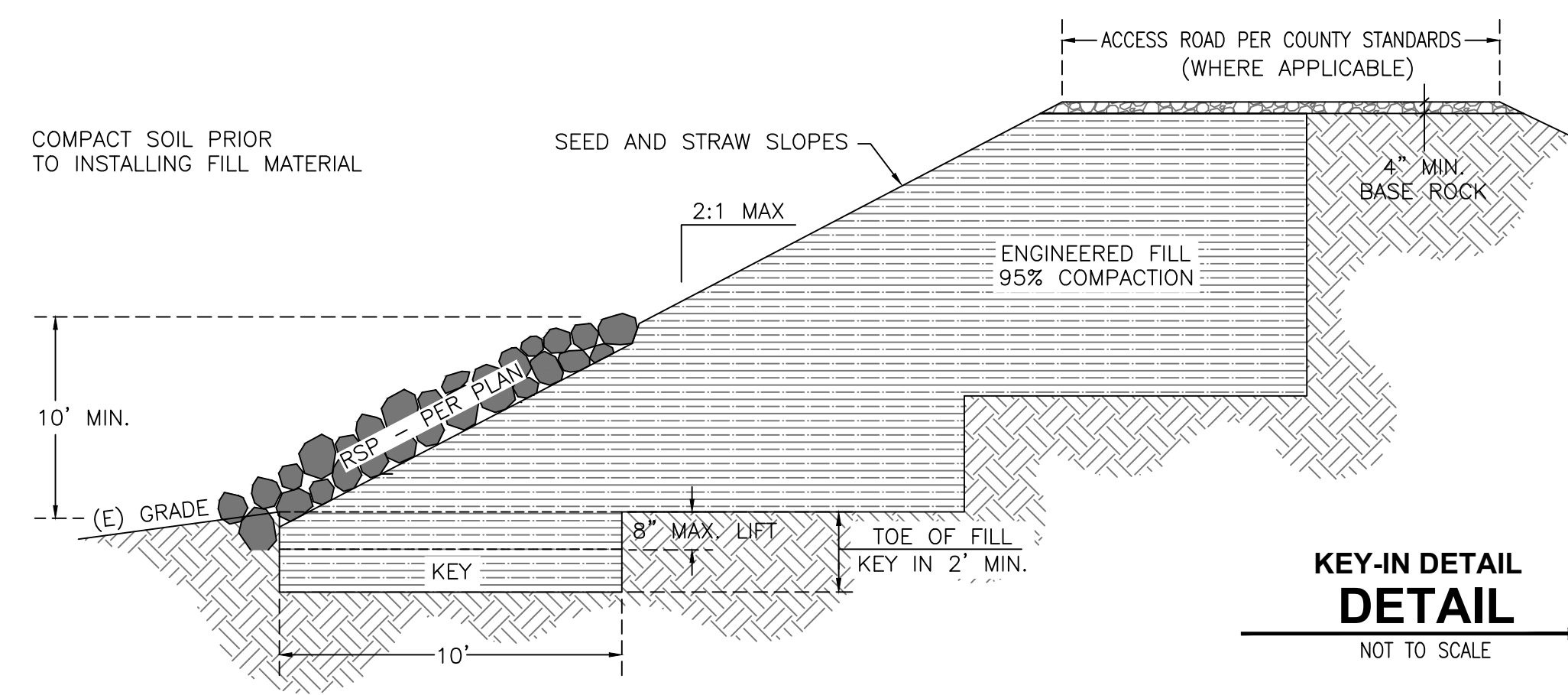
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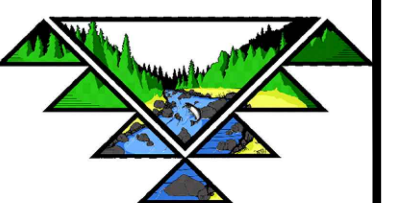
WHERE EXISTING GRADE IS AT A SLOPE STEEPER THAN 5:1 (h:v) AND A DEPTH OF THE FILL EXCEEDS 5 FEET, BENCHING SHALL BE PROVIDED. A KEY SHALL BE PROVIDED THAT IS NOT LESS THAN 10 FEET IN WIDTH AND 2 FEET IN DEPTH.



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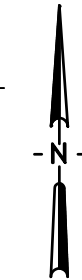


# EROSION CONTROL PLAN

FOR  
Mr. DILLON DUPONT  
161 OAK ROCK ROAD, GARBERVILLE, CA  
APN: 222-071-030

EROSION CONTROL PLAN

1"=30'

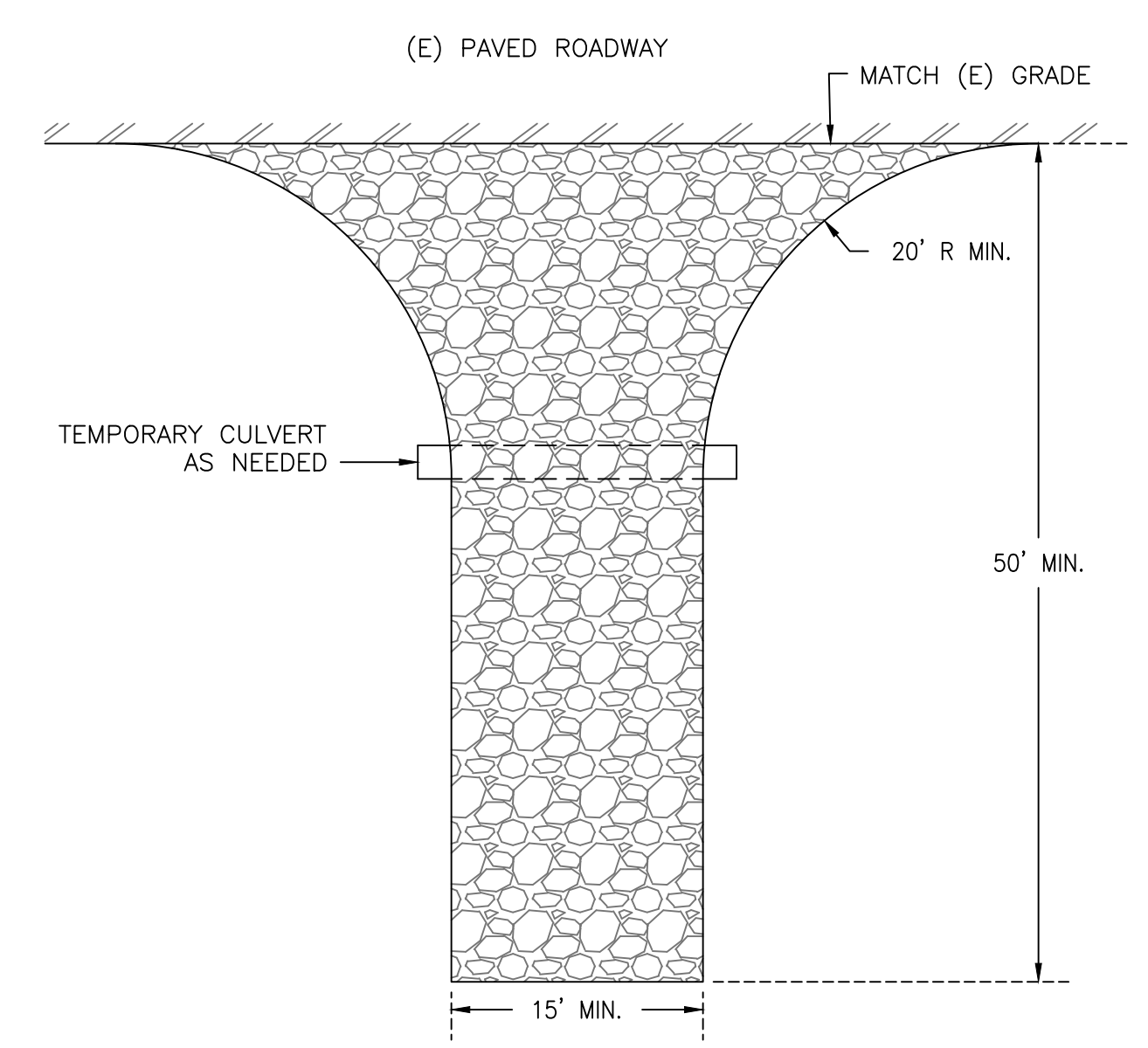


(P)ESTIMATE LINEAR FEET:	
SILT FENCE (LF):	500
FIBER ROLLS (LF):	1,535

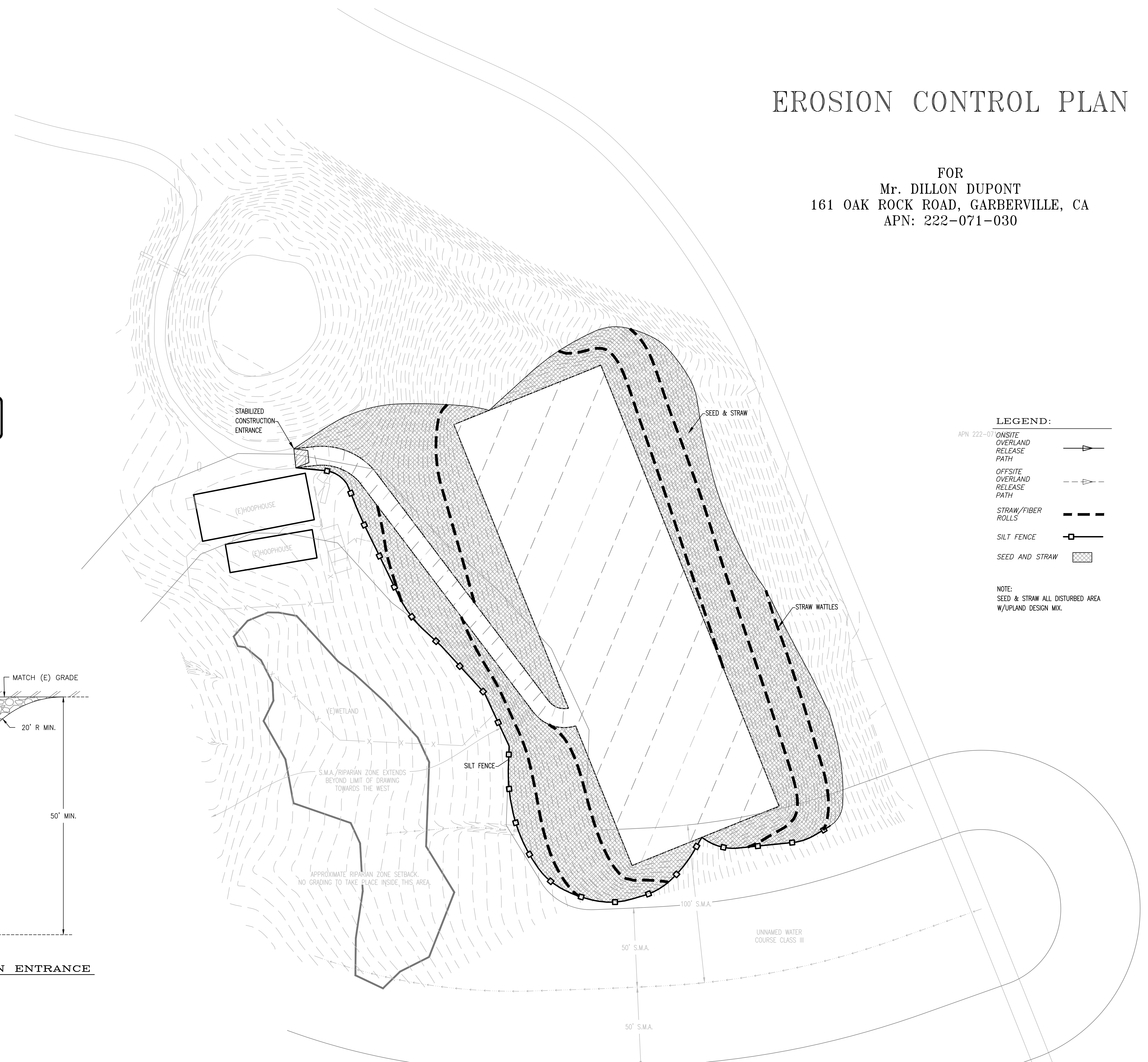
**LEGEND:**

APN 222-071 ONSITE OVERLAND RELEASE PATH	
OFFSITE OVERLAND RELEASE PATH	
STRAW/FIBER ROLLS	
SILT FENCE	
SEED AND STRAW	

NOTE:  
SEED & STRAW ALL DISTURBED AREA W/UPLAND DESIGN MIX.



**STABILIZED CONSTRUCTION ENTRANCE**  
NTS



REV	DATE	DESCRIPTION	CHK BY	APP BY

Mr. DILLON DUPONT  
**EROSION CONTROL PLAN**  
480 RANCH ROAD, GARBERVILLE, CA  
APN: 222-071-028 & 222-071-030

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