

TRUCKEE TAHOE AIRPORT DISTRICT

CONSTRUCTION PLANS FOR:

TAHOE CITY HELIPORT
292 FAIRWAY DRIVE
TAHOE CITY, CALIFORNIA 96145

CONSTRUCT NEW HELIPAD

APRIL 2017

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- 17 LIBERTY ENERGY UTILITY PLAN

TRUCKEE TAHOE AIRPORT DISTRICT

APPROVED: _____ DATE: _____
KEVIN SMITH - GENERAL MANAGER

APPROVED: _____ DATE: _____

DESIGNED BY :



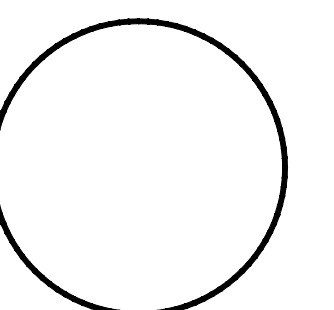
Reinard W. Brandley
CONSULTING AIRPORT ENGINEER

6125 King Road, Suite 201 · Loomis, California 95650 · (916) 652-4725

DESIGN ENGINEER C.E. 66558

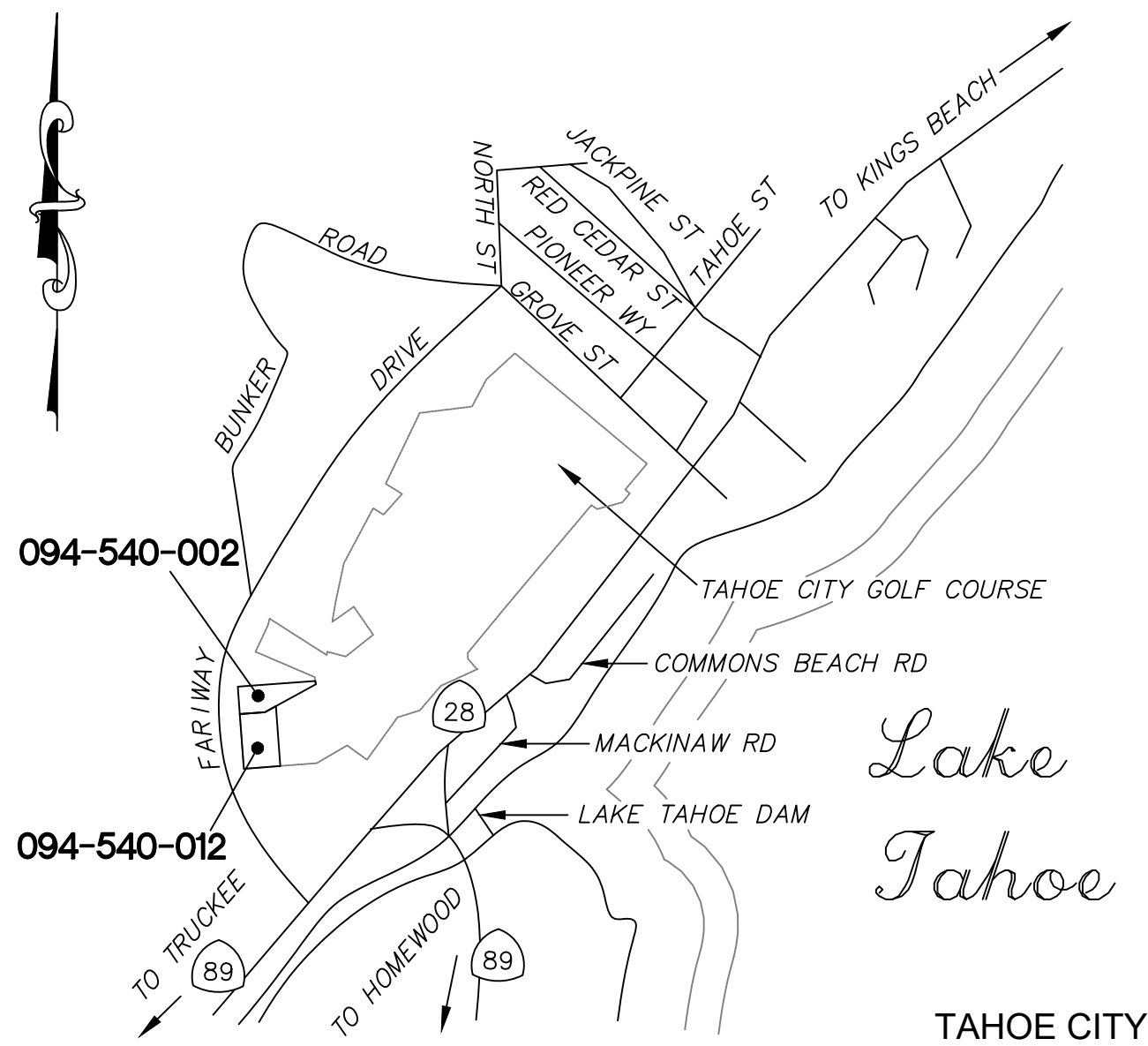
4/26/17

DATE



SET NO.

VICINITY MAP



PROJECT INFORMATION

OWNER: TAHOE CITY PUBLIC UTILITY DISTRICT
PO BOX 5249
TAHOE CITY, CA 96145

PROJECT ADDRESS: FAIRWAY DRIVE
TAHOE CITY, CA 96145

APNS: 094-540-002
094-540-012

RECORD INFORMATION: A PORTION OF SECTION 6 & 7
TOWNSHIP 17 NORTH, RANGE 15 EAST, M.D.B. & M.

(PERMITTING INFORMATION ONLY)

BASE ALLOWABLE LAND COVERAGE

Land Capability District	Percentage Coverage	094-540-012	Base Allowable Coverage (sq.ft.)
Class 1/ Backshore	1%	44,022	440
Class 4	20%	16,800	3,360
Total		60,822	3,800

VERIFIED PROPOSED LAND COVERAGE

Verified (Grandfathered) Coverage 094-540-012	Class 1b	Class 4	Total (sq.ft.)
Dirt/Gravel Drive	3,196	4,576	7,772
Dirt/Gravel Cart Path	532	0	532
Totals	3,728	4,576	8,304

Proposed Land Coverage 094-540-012	Class 1b	Class 4	Total (sq.ft.)
Paved Driveway	0	996	996
Helipad	849	2,249	3,098
Paved Power Transformer and Electric Meter Access Parking Pad	0	335	335
Cart Path	532	0	532
Permanently Retired Class 1b (1.5:1 Relocation Mitigation)	136	0	136
Totals	1,517	3,580	5,097

Land Capability District	Verified Land Coverage	Proposed Land Coverage	Land Coverage to be Banked
Class 1b	3,728	1,517	2,211
Class 4	4,576	3,580	996
		Total	3,207

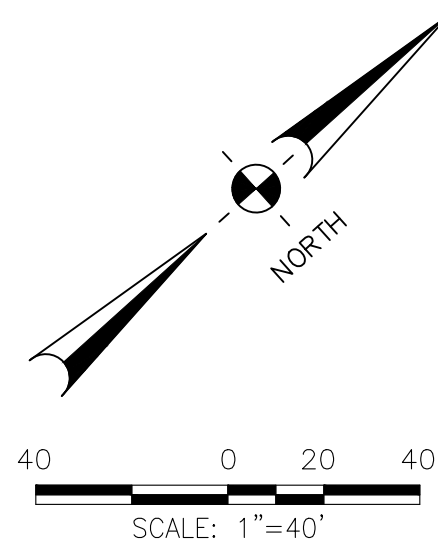
APN 094-180-059	Proposed Offsite Coverage	Offsite Coverage Reduction
Existing Offsite Dirt/Gravel Drive (Subject to Verification)	1,693	683

NOTE

THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITY PIPE, CONDUIT, OR STRUCTURES SHOWN ON THESE PLANS ARE OBTAINED BY A SEARCH OF THE AVAILABLE RECORDS. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN ON THESE DRAWINGS. THE CONTRACTOR FURTHER ASSUMES ALL LIABILITY AND RESPONSIBILITY FOR THE UTILITY PIPES, CONDUITS, AND OTHER STRUCTURES SHOWN OR NOT SHOWN ON THESE DRAWINGS.

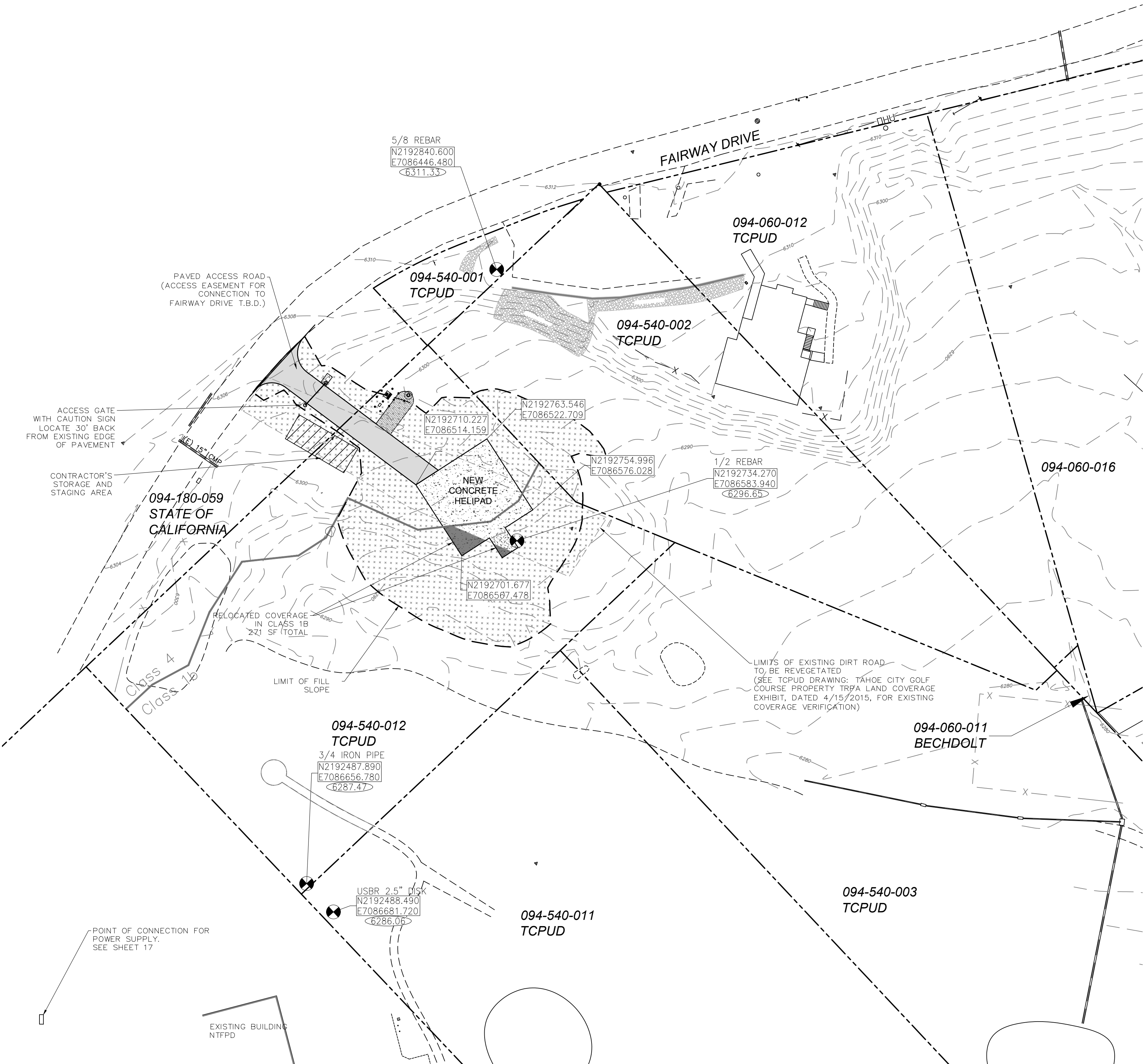
LEGEND

N2192840.60 E7086446.80 6311.33	GRID COORDINATE
⊙	BENCHMARK ELEVATION
⊙	CONTROL POINT
—	NEW ASPHALT ACCESS ROAD
—	NEW CONCRETE HELIPAD
—	EXISTING DIRT ROAD TO BE REVEGETATED
—	NEW GRAVEL ROAD
—	EXISTING GRADE CONTOUR
—	LIMITS OF DISTURBANCE
—	PROPERTY LINE
—	LAND CAPABILITY DISTRICT BOUNDARY
—	EXISTING CULVERT
094-540-001 TCPUD	PARCEL NUMBER / PROPERTY OWNER



NOTES:

- ALL LAND COVERAGE/LAND CAPABILITY TABLES AND BOUNDARIES ON SHEET 2 ARE SHOWN FOR PERMITTING PURPOSES AND INFORMATION ONLY. CONTRACTOR WILL NOT NEED THIS INFORMATION FOR CONSTRUCTION ACTIVITIES.
- BASIS OF COORDINATES — CALIFORNIA STATE GRID COORDINATES NAD83. SEE BENCHMARKS THIS SHEET FOR CONTROL POINTS. VERTICAL DATUM IS NAVD88.
- SEE SHEET 3 FOR DEMOLITION, TREE REMOVAL, EROSION CONTROL, AND SITE LAYOUT PLAN.
- SEE SHEETS 5 AND 6 FOR SITE GRADING.
- SEE SHEETS 12 THRU 17 FOR ELECTRICAL UTILITIES AND DETAILS.



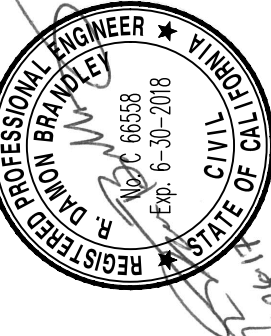
TRUCKEE-TAHOE AIRPORT DISTRICT

CALIFORNIA

TAHOE CITY HELIPORT

SITE PLAN AND COORDINATE LAYOUT PLAN

ENGINEER OF RECORD



DATE

BY

REVISIONS

No.

No.

No.

No.

No.

No.

No.

No.

No.

No.

No.

No.

No.

No.

DATE 4/24/2017

DRAWN TAS

CHECKED DB

PROJECT No. 40.13

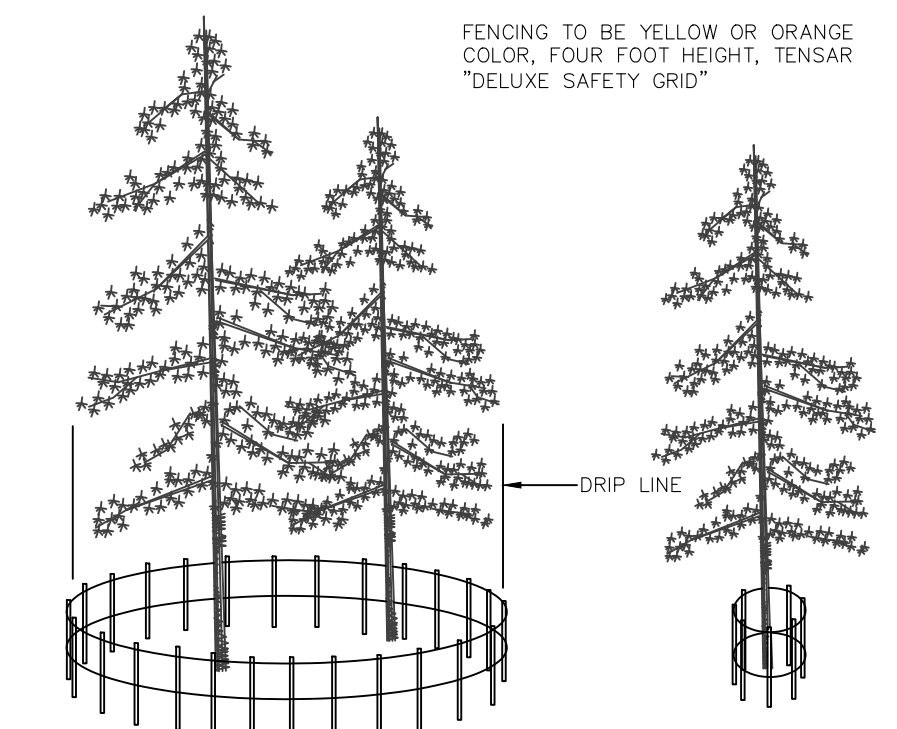
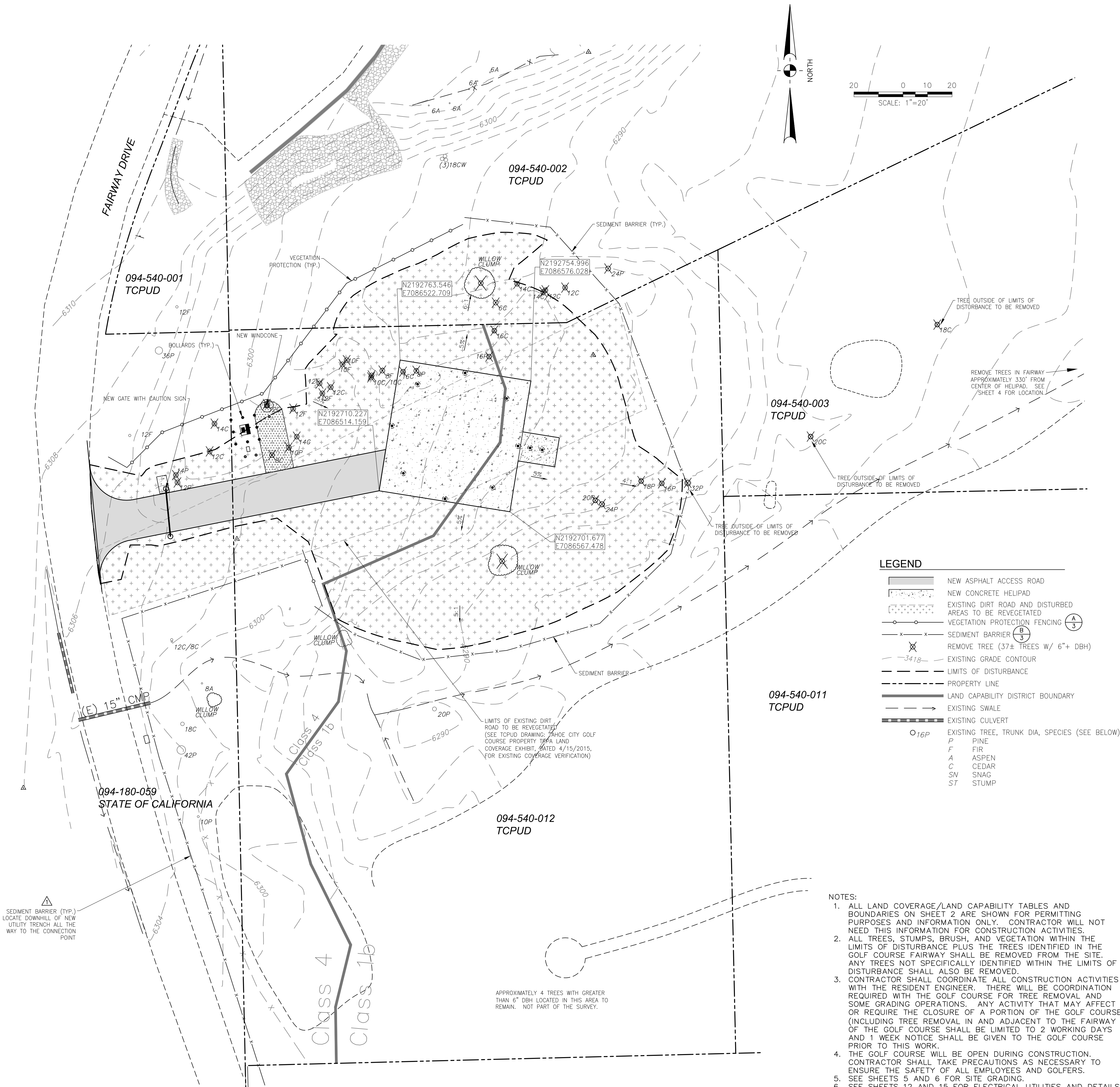
FILE 4013.02.COORD

SCALE 1"=40'

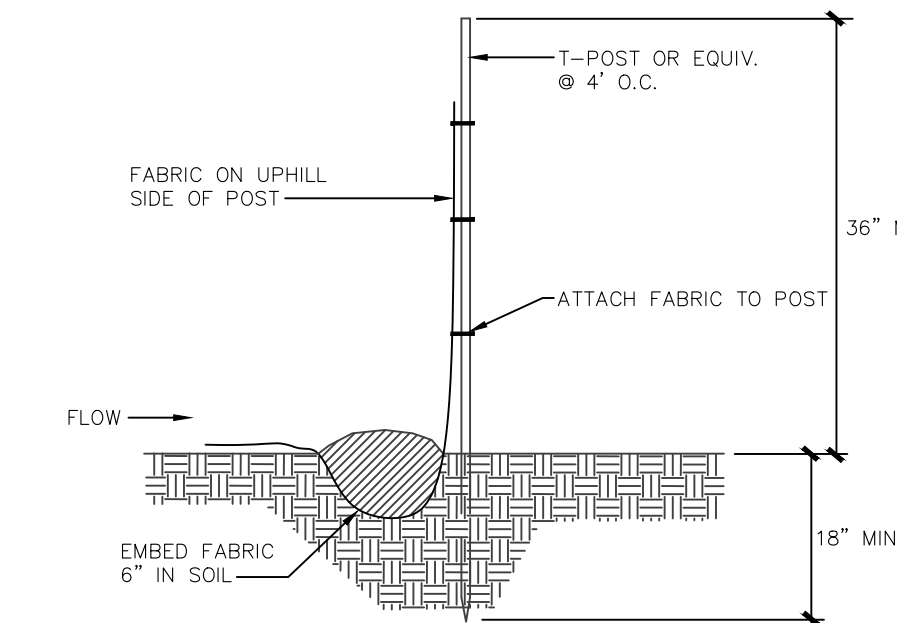
SHEET No. 2 OF 17

Reinard W. Brandley
CONSULTING AIRPORT ENGINEER

6125 King Road, Suite 201 - Loomis, California 95650 - (916) 652-4725



VEGETATION PROTECTION FENCING
N.T.S.



SEDIMENT BARRIER
N.T.S.

REVEGETATION PLAN:
ALL DISTURBED AREAS SHALL BE REVEGETATED WITH THE FOLLOWING SEED MIX APPLIED AT THE SPECIFIED RATES:

Species	Purity	Germination	Rate of Application
Slender Wheatgrass (<i>Agropyron trachycalum</i>)	90%	90%	8 lbs/acre
Luna Pubescent Wheatgrass (<i>Agropyron trichophorum</i>)	90%	90%	8 lbs/acre
"Scalpus" Hard Fescue (<i>Festuca longifolia</i>)	90%	90%	10 lbs/acre
"Sherman" Big Bluegrass (<i>Poa ampla</i>)	90%	90%	8 lbs/acre
"Apar Lewis Flax (<i>Linum lewisii</i>)	99%	80%	4 lbs/acre
"Bandera" Rocky Mountain Penstemon (<i>Penstemon strictus</i>)	99%	80%	2 lbs/acre
Lupine Blend	60%	70%	2 lbs/acre
"California Poppy" (<i>Eschscholtzia</i>)	99%	80%	2 lbs/acre**
"Sierra" Sulphur Flower Buckwheat (<i>Eriogonum umbellatum</i>)	40%	50%	2 lbs/acre
Total:			46 lbs/acre

THE SEED SHALL BE EVENLY BROADCAST BY HAND, MECHANICAL HAND SEEDER, OR OTHER APPROVED EQUIPMENT. SEED SHALL BE INCORPORATED INTO THE SOIL USING HAND TOOLS. THE INCORPORATION PROCESS SHALL BE PERFORMED LONGITUDINAL TO THE SLOPE PROGRESSING FROM THE TOE OF THE SLOPE TO THE TOP OF THE SLOPE. THE WORK SHALL NOT CREATE AN EXCESSIVE AMOUNT OF DOWNWARD MOVEMENT OF SOIL OR CLODS ON SLOPING AREAS. SEED SHALL HAVE A SOIL COVER OF NOT LESS THAN ONE-QUARTER INCH (1/4") OR MORE THAN THREE-QUARTERS INCH (3/4").

ALL SEEDED AREAS SHALL BE PERMANENTLY MULCHED TO ALLOW ESTABLISHMENT OF VEGETATION. MULCH SHALL CONSIST OF PINE NEEDLES, WEED-FREE STRAW, RICE STRAW OR PROCESSED SITE CLEARED VEGETATION. THE MULCH SHALL BE APPLIED UNIFORMLY AT A RATE OF APPROXIMATELY 4000 POUNDS/ACRE. THE MULCH SHALL BE ANCHORED IN THE SOIL BY USE OF A SHEEPSFOOT, CRAWLER TRACK OR HAND PUNCHED WITH SHOVELS.

IN LIEU OF THE MANUAL APPLICATION OF THE SEED, FERTILIZER AND MULCH, HYDROSEEDING MAY BE USED TO REVEGETATE DISTURBED AREAS.

FERTILIZER MANAGEMENT PLAN

FERTILIZER APPLICATION SHALL BE CONSISTENT WITH THE GUIDELINES IN THE TRPA HANDBOOK OF BEST MANAGEMENT PRACTICES, SPECIFICALLY BMP 63. "FERTILIZER MANAGEMENT".

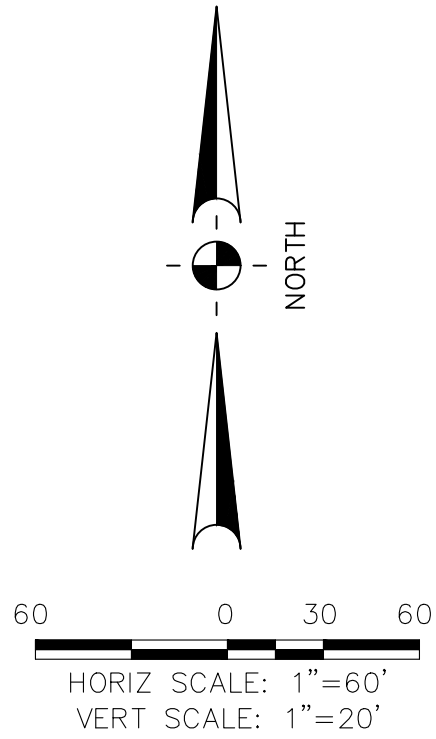
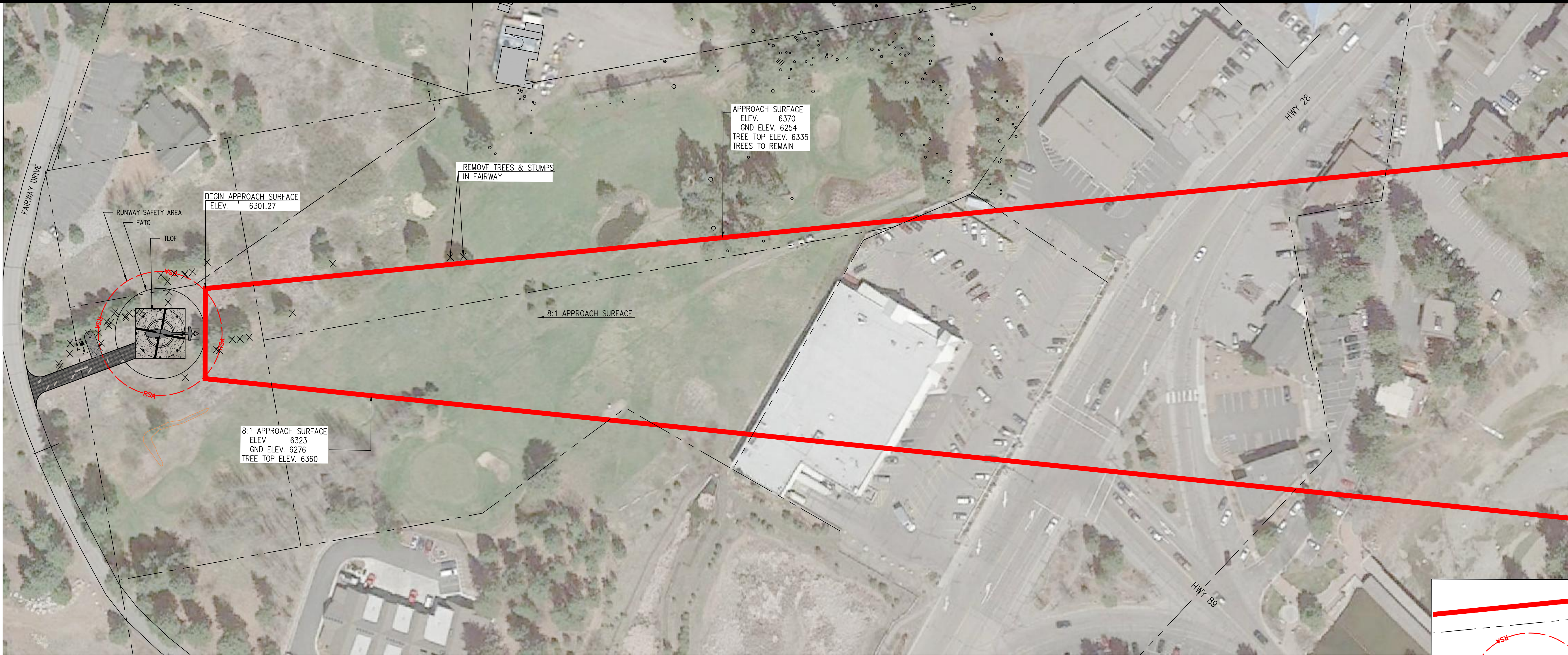
THE APPLICATION RATE SHALL NOT EXCEED 250 LB/ACRE

PER BMP 63, FOR GRASS SEEDED SITES WHICH WILL NOT RECEIVE MAINTENANCE APPLICATIONS, BOTH SLOW AND FAST RELEASE FERTILIZERS SHALL BE APPLIED WITH INITIAL SEEDING AS FOLLOWS:
100 LB/ACRE - CONVENTIONAL FAST RELEASE 16-20-0 AMMONIUM-PHOSPHATE-SULFATE
150 LB/ACRE - SLOW RELEASE OSMOCOTE 17-7-12

NO FERTILIZER SHALL BE USED WITHIN STREAM ENVIRONMENT ZONES OR SETBACKS.

- NOTES:
- ALL LAND COVERAGE/LAND CAPABILITY TABLES AND BOUNDARIES ON SHEET 2 ARE SHOWN FOR PERMITTING PURPOSES AND INFORMATION ONLY. CONTRACTOR WILL NOT NEED THIS INFORMATION FOR CONSTRUCTION ACTIVITIES.
 - ALL TREES, STUMPS, BRUSH, AND VEGETATION WITHIN THE LIMITS OF DISTURBANCE PLUS THE TREES IDENTIFIED IN THE GOLF COURSE FAIRWAY SHALL BE REMOVED FROM THE SITE. ANY TREES NOT SPECIFICALLY IDENTIFIED WITHIN THE LIMITS OF DISTURBANCE SHALL ALSO BE REMOVED.
 - CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION ACTIVITIES WITH THE RESIDENT ENGINEER. THERE WILL BE COORDINATION REQUIRED WITH THE GOLF COURSE FOR TREE REMOVAL AND SOME GRADING OPERATIONS. ANY ACTIVITY THAT MAY AFFECT OR REQUIRE THE CLOSURE OF A PORTION OF THE GOLF COURSE (INCLUDING TREE REMOVAL IN AND ADJACENT TO THE FAIRWAY OF THE GOLF COURSE) SHALL BE LIMITED TO 2 WORKING DAYS AND 1 WEEK NOTICE SHALL BE GIVEN TO THE GOLF COURSE PRIOR TO THIS WORK.
 - THE GOLF COURSE WILL BE OPEN DURING CONSTRUCTION. CONTRACTOR SHALL TAKE PRECAUTIONS AS NECESSARY TO ENSURE THE SAFETY OF ALL EMPLOYEES AND GOLFERS.
 - SEE SHEETS 5 AND 6 FOR SITE GRADING.
 - SEE SHEETS 12 AND 15 FOR ELECTRICAL UTILITIES AND DETAILS.

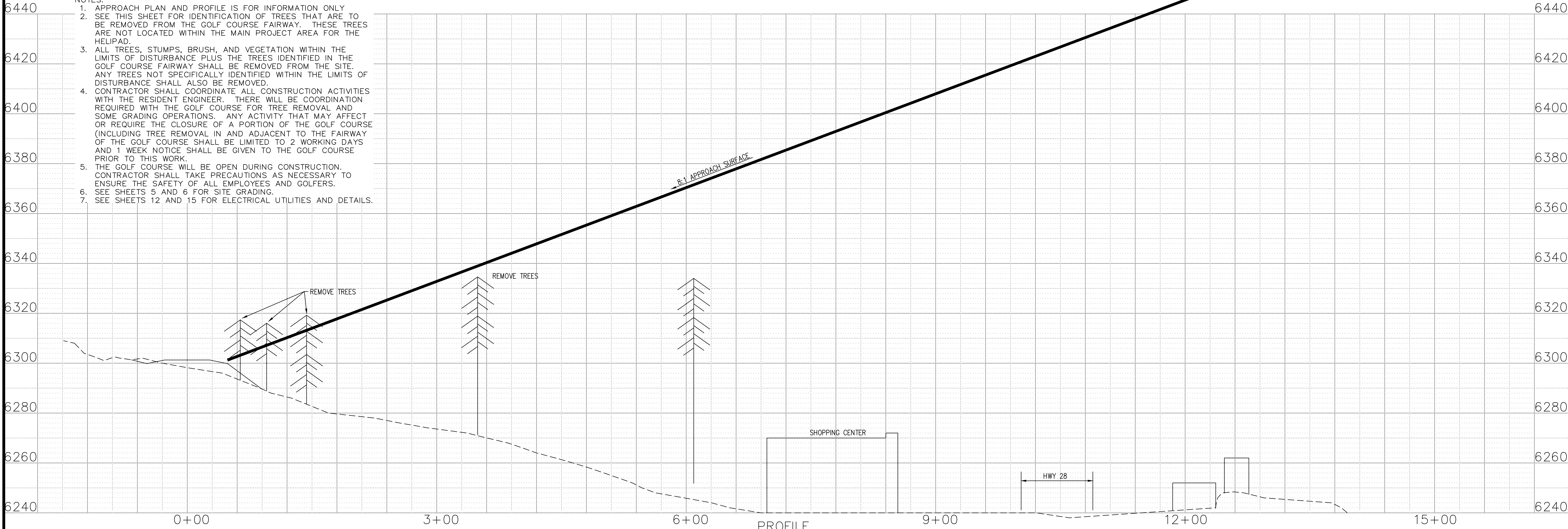
TRUCKEE-TAHOE AIRPORT DISTRICT CALIFORNIA		TAHOE CITY HELIPORT EROSION CONTROL AND DEMOLITION PLAN	
ENGINEER OF RECORD REINARD W. BRANDLEY REGISTERED PROFESSIONAL ENGINEER CIVIL STATE OF CALIFORNIA No. 54143		DATE 4/24/2017	
BY APR DB		DATE 5/16/17	
REVISIONS #1-ADD SED. BARRIER		DATE 5/16/17	
SHEET No.		3 OF 17	



- LEGEND
- X REMOVE TREES SEE SHEET 3
 - APPROACH SURFACE
 - - - PROPERTY LINE
 - - - RUNWAY SAFETY AREA

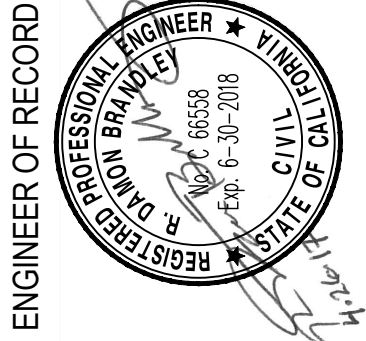
PLAN

- NOTES:
1. APPROACH PLAN AND PROFILE IS FOR INFORMATION ONLY
 2. SEE THIS SHEET FOR IDENTIFICATION OF TREES THAT ARE TO BE REMOVED FROM THE GOLF COURSE FAIRWAY. THESE TREES ARE NOT LOCATED WITHIN THE MAIN PROJECT AREA FOR THE HELIPAD.
 3. ALL TREES, STUMPS, BRUSH, AND VEGETATION WITHIN THE LIMITS OF DISTURBANCE PLUS THE TREES IDENTIFIED IN THE GOLF COURSE FAIRWAY SHALL BE REMOVED FROM THE SITE. ANY TREES NOT SPECIFICALLY IDENTIFIED WITHIN THE LIMITS OF DISTURBANCE SHALL ALSO BE REMOVED.
 4. CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION ACTIVITIES WITH THE RESIDENT ENGINEER. THERE WILL BE COORDINATION REQUIRED WITH THE GOLF COURSE FOR TREE REMOVAL AND SOME GRADING OPERATIONS. ANY ACTIVITY THAT MAY AFFECT OR REQUIRE THE CLOSURE OF A PORTION OF THE GOLF COURSE (INCLUDING TREE REMOVAL IN AND ADJACENT TO THE FAIRWAY OF THE GOLF COURSE) SHALL BE LIMITED TO 2 WORKING DAYS AND 1 WEEK NOTICE SHALL BE GIVEN TO THE GOLF COURSE PRIOR TO THIS WORK.
 5. THE GOLF COURSE WILL BE OPEN DURING CONSTRUCTION. CONTRACTOR SHALL TAKE PRECAUTIONS AS NECESSARY TO ENSURE THE SAFETY OF ALL EMPLOYEES AND GOLFERS.
 6. SEE SHEETS 5 AND 6 FOR SITE GRADING.
 7. SEE SHEETS 12 AND 15 FOR ELECTRICAL UTILITIES AND DETAILS.



PROFILE

G:\40 TRUCKEE\13 -TAHOE CITY HELIPAD\FINAL HELIPORT DESIGN\4013.04 APPROACH.DWG PLOTTED BY: Damon Brandley 5/31/2017 3:59 PM



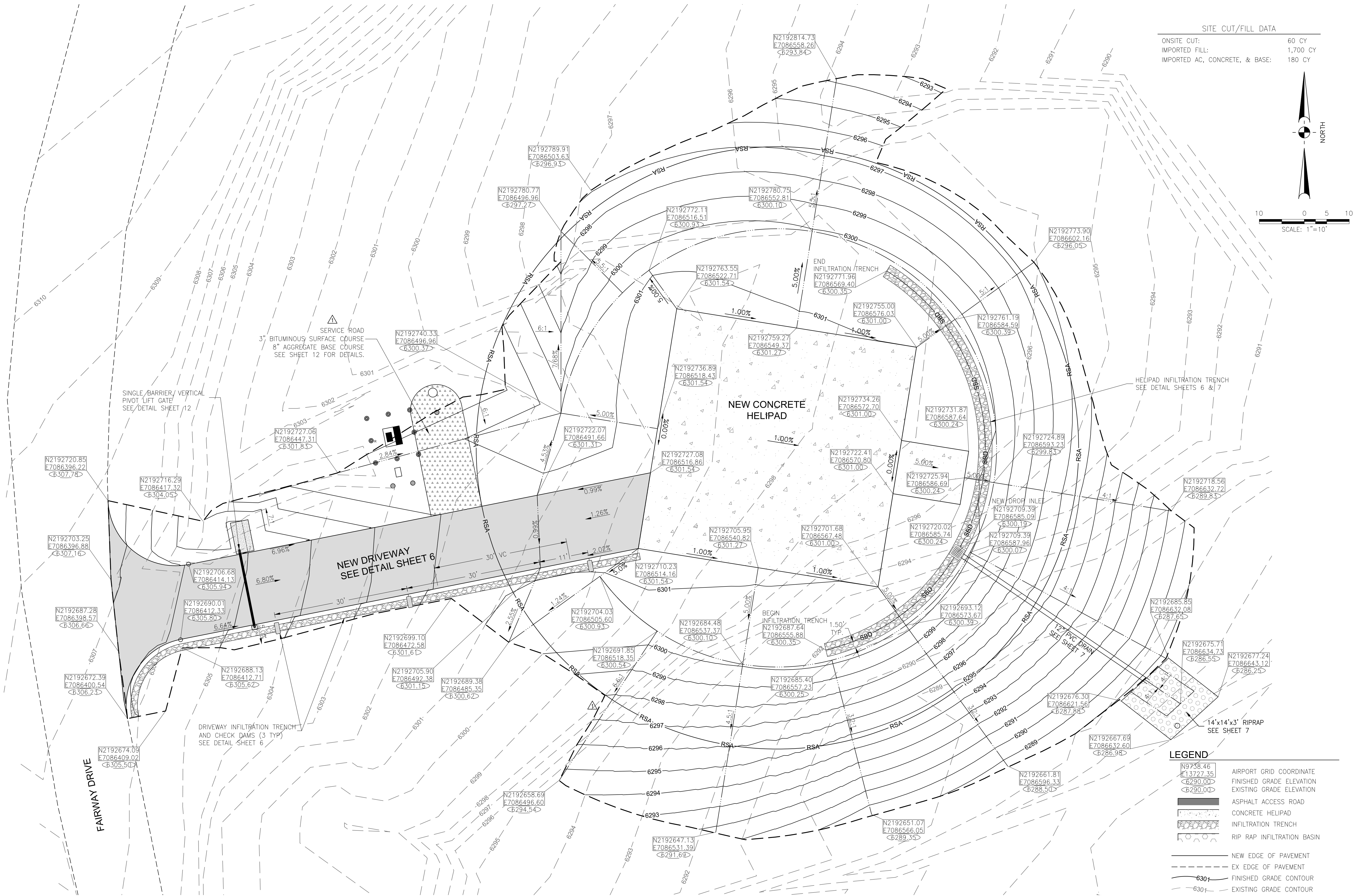
ENGINEER OF RECORD

REVISIONS	BY	DATE
No.		

TRUCKEE-TAHOE AIRPORT DISTRICT
CALIFORNIA
TAHOE CITY HELIPORT
HELICOPTER APPROACH PLAN AND PROFILE

DATE 4/24/2017
DRAWN DB
CHECKED DB
PROJECT No. 40.13
FILE 4013.04.APPROACH
SCALE 1"=60'
SHEET No. 4 OF 17

Reinard W. Brandley
CONSULTING AIRPORT ENGINEER
6125 King Road, Suite 201 - Loomis, California 95650 - (916) 652-4725



TRUCKEE-TAHOE AIRPORT DISTRICT
CALIFORNIA

TAHOE CITY HELIPORT
GRADING AND BMP PLAN

DATE: 4/24/2017

DRAWN: KDC

CHECKED: DB

PROJECT No.: 40.13

FILE: 4013.05-06.GRAD

SCALE: 1"=10'

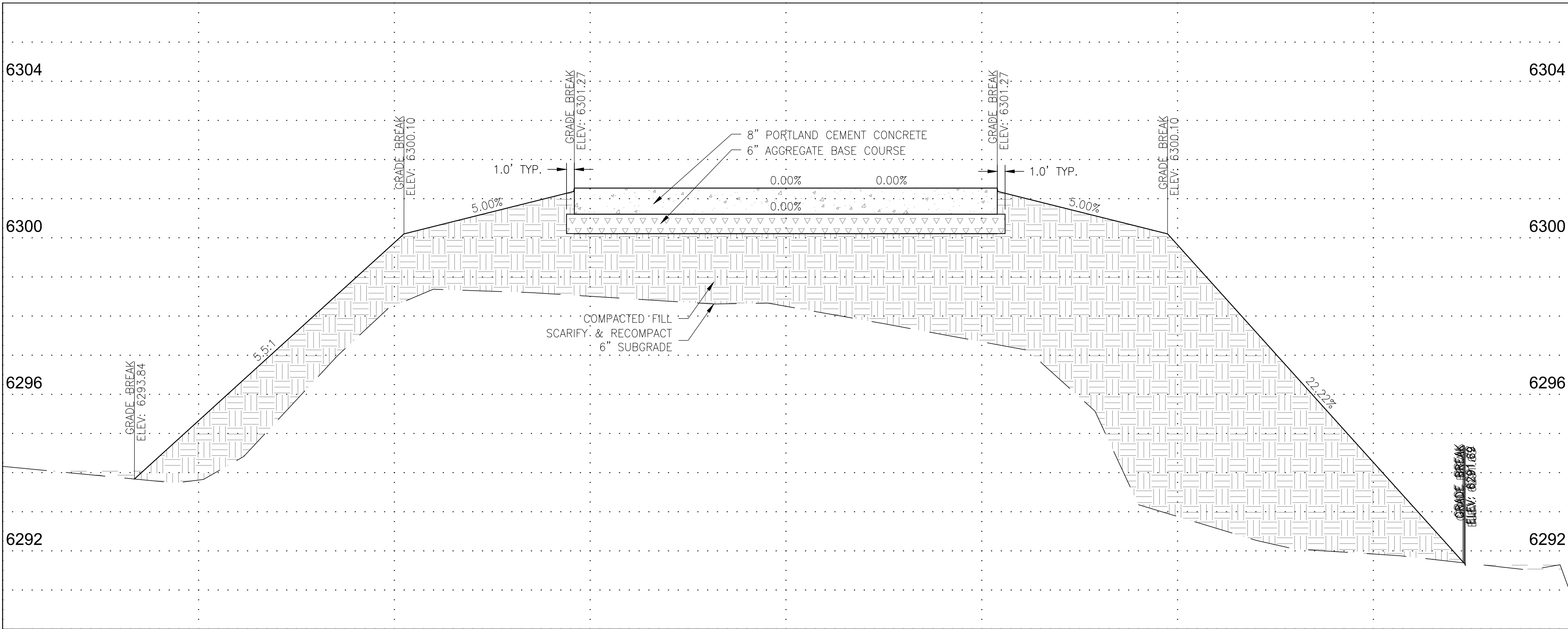
SHEET No.: 5 OF 17

ENGINEER OF RECORD

REINARD W. BRANDLEY
REGISTERED PROFESSIONAL ENGINEER
CIVIL
STATE OF CALIFORNIA
No. 50888
Exp. 12/31/2018

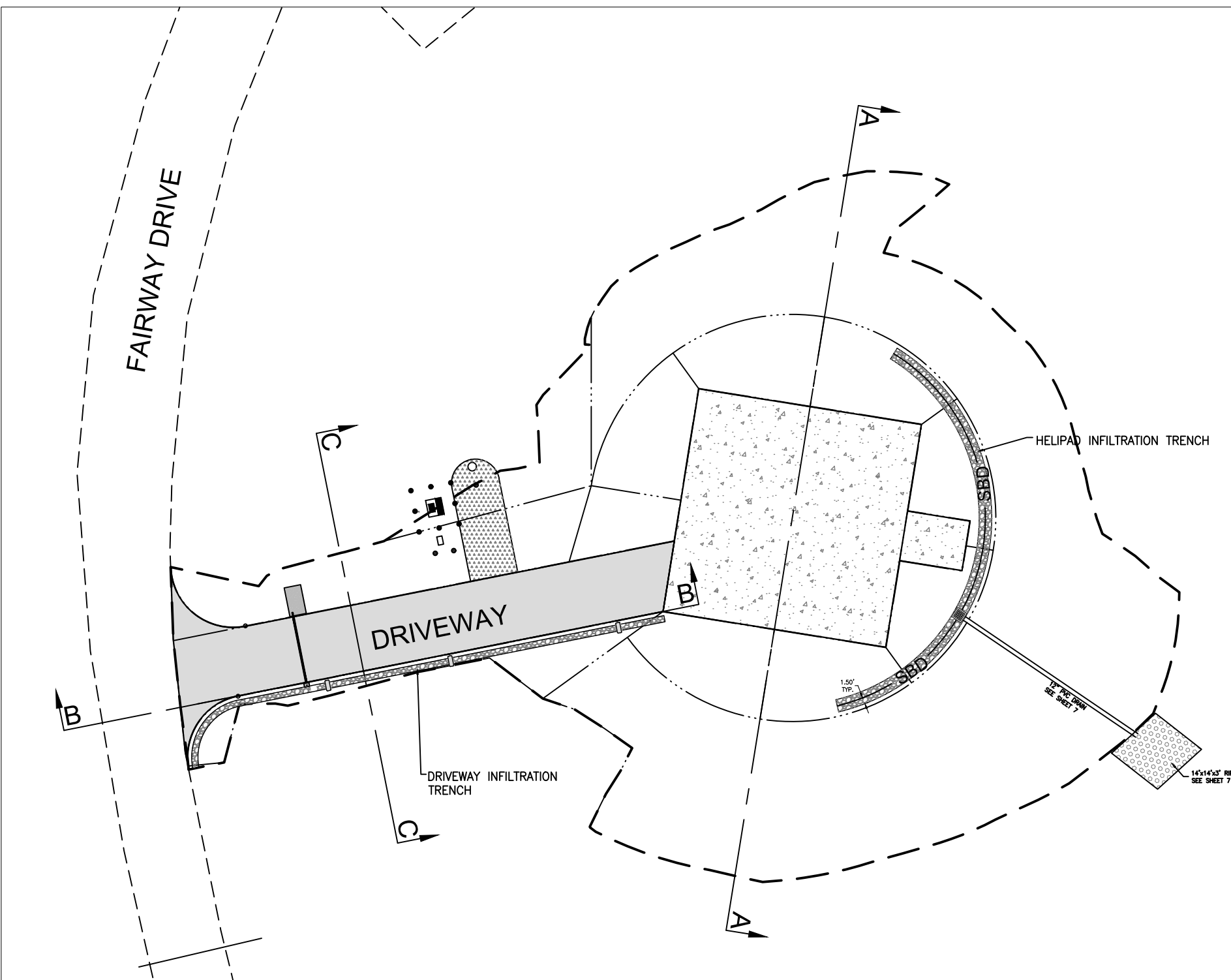
REINARD W. BRANDLEY
CONSULTING AIRPORT ENGINEER

6125 King Road, Suite 201 - Loomis, California 95650 - (916) 652-4725



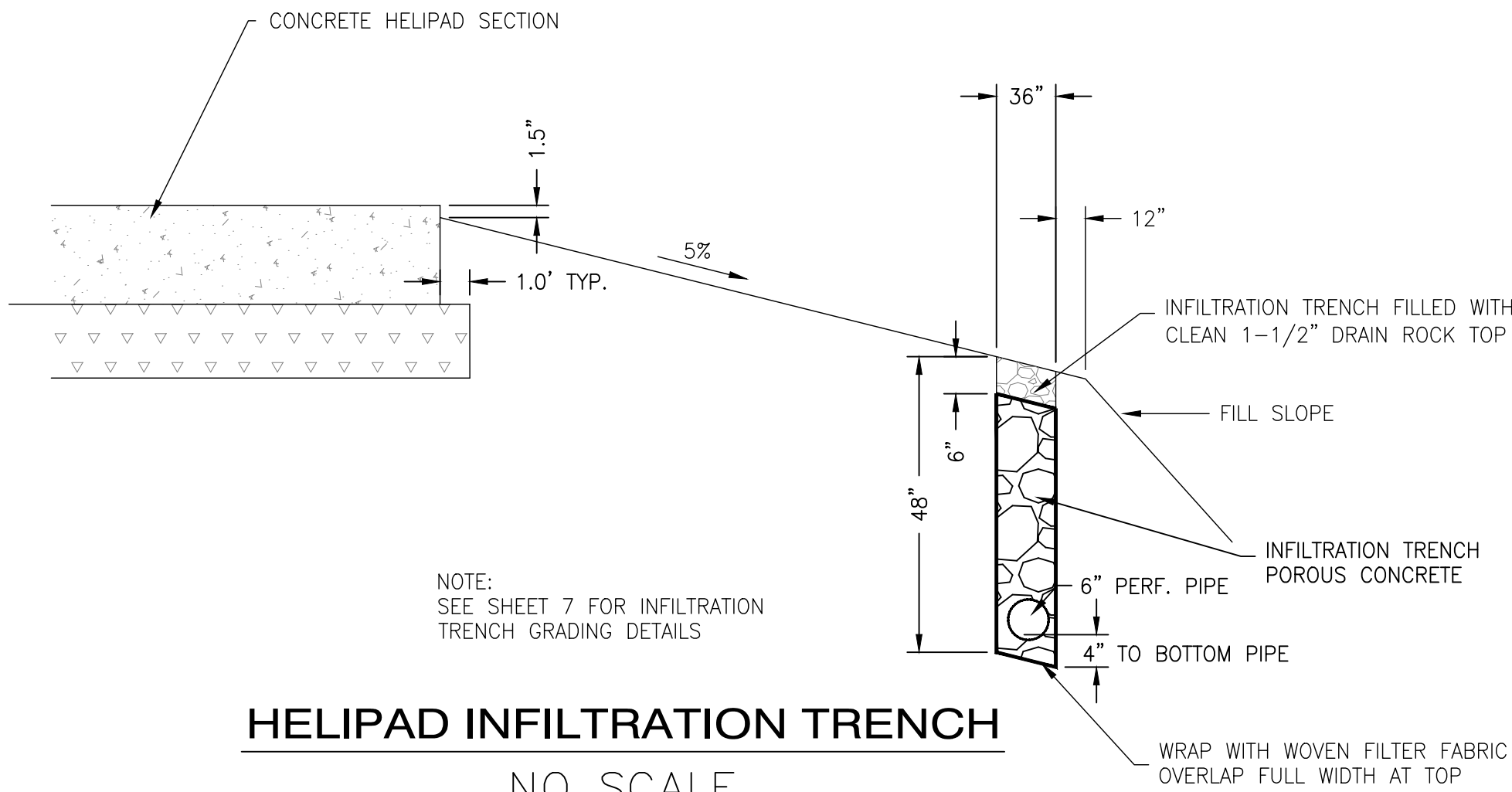
SECTION A-A

HORIZ SCALE: 1"=10'
VERT SCALE: 1"=2'



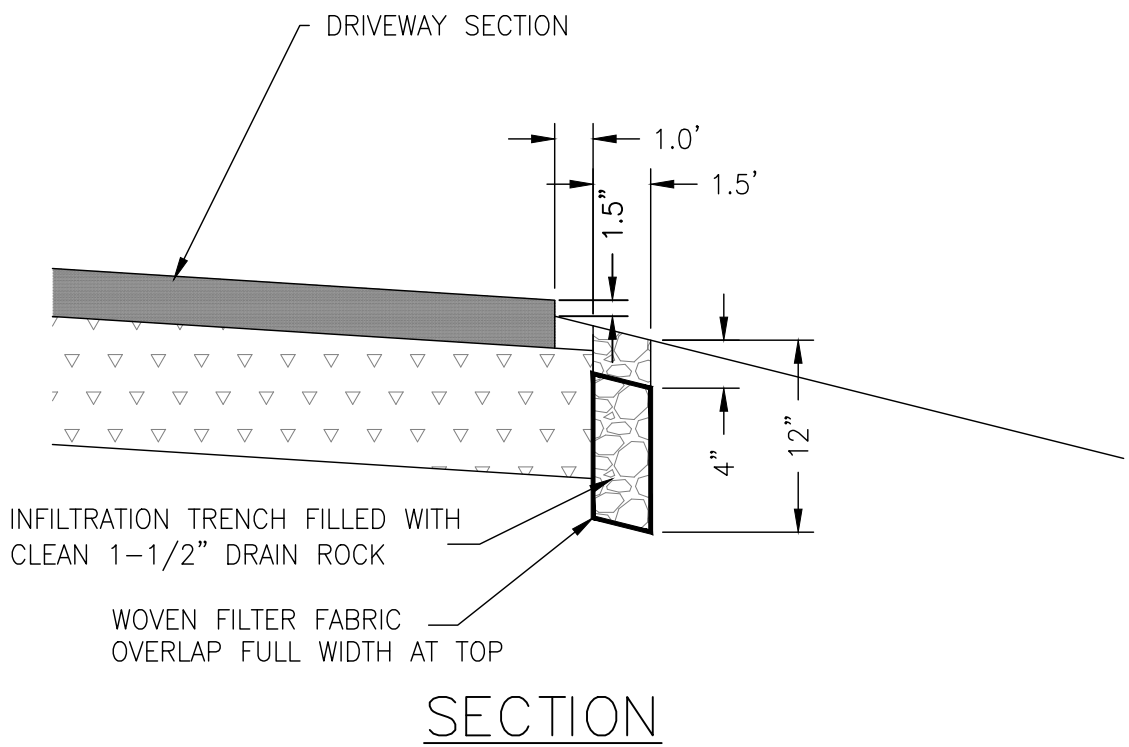
LOCATION MAP

SCALE: 1"=30'



HELIPAD INFILTRATION TRENCH

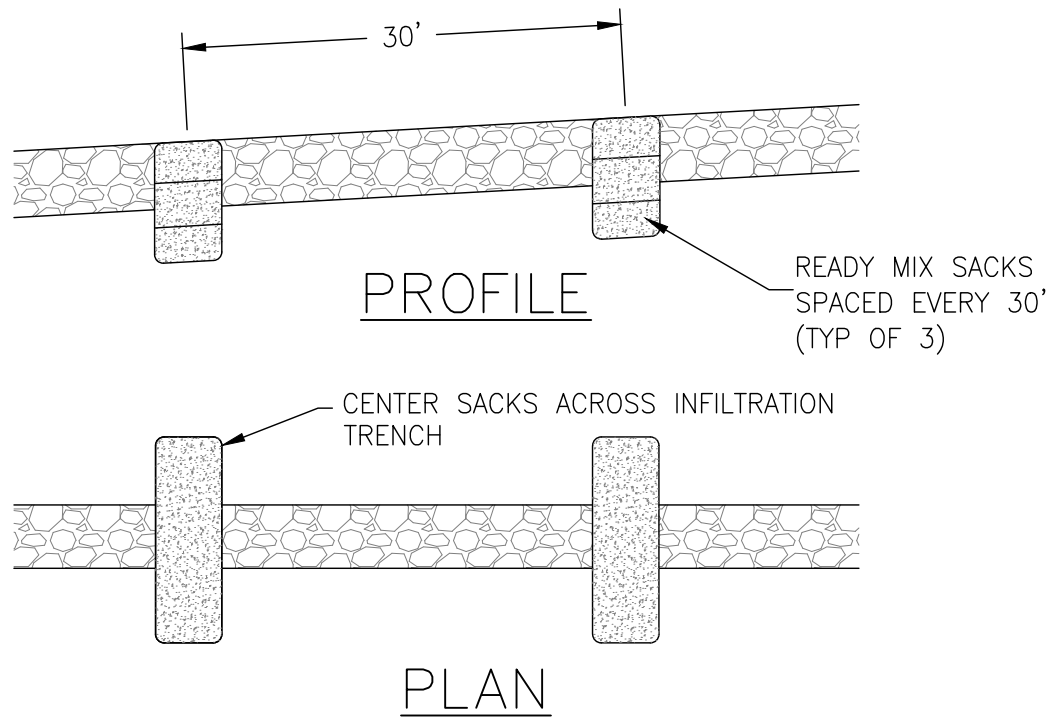
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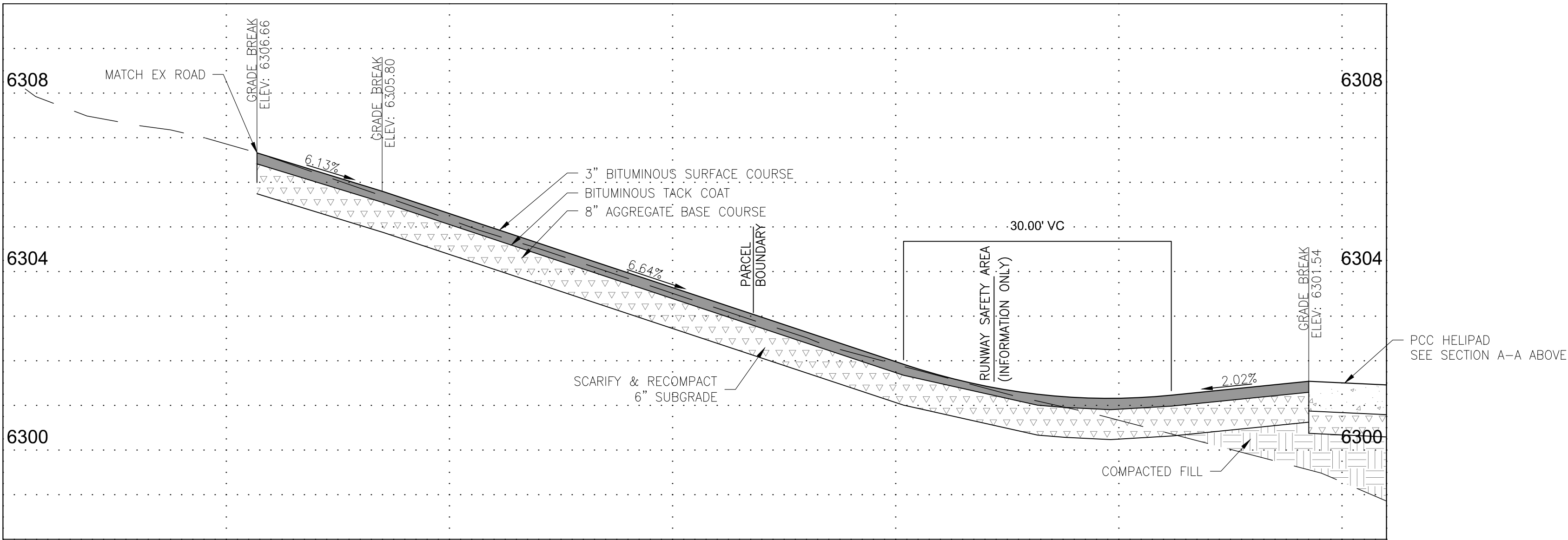
SECTION

DRIVEWAY INFILTRATION TRENCH

NO SCALE

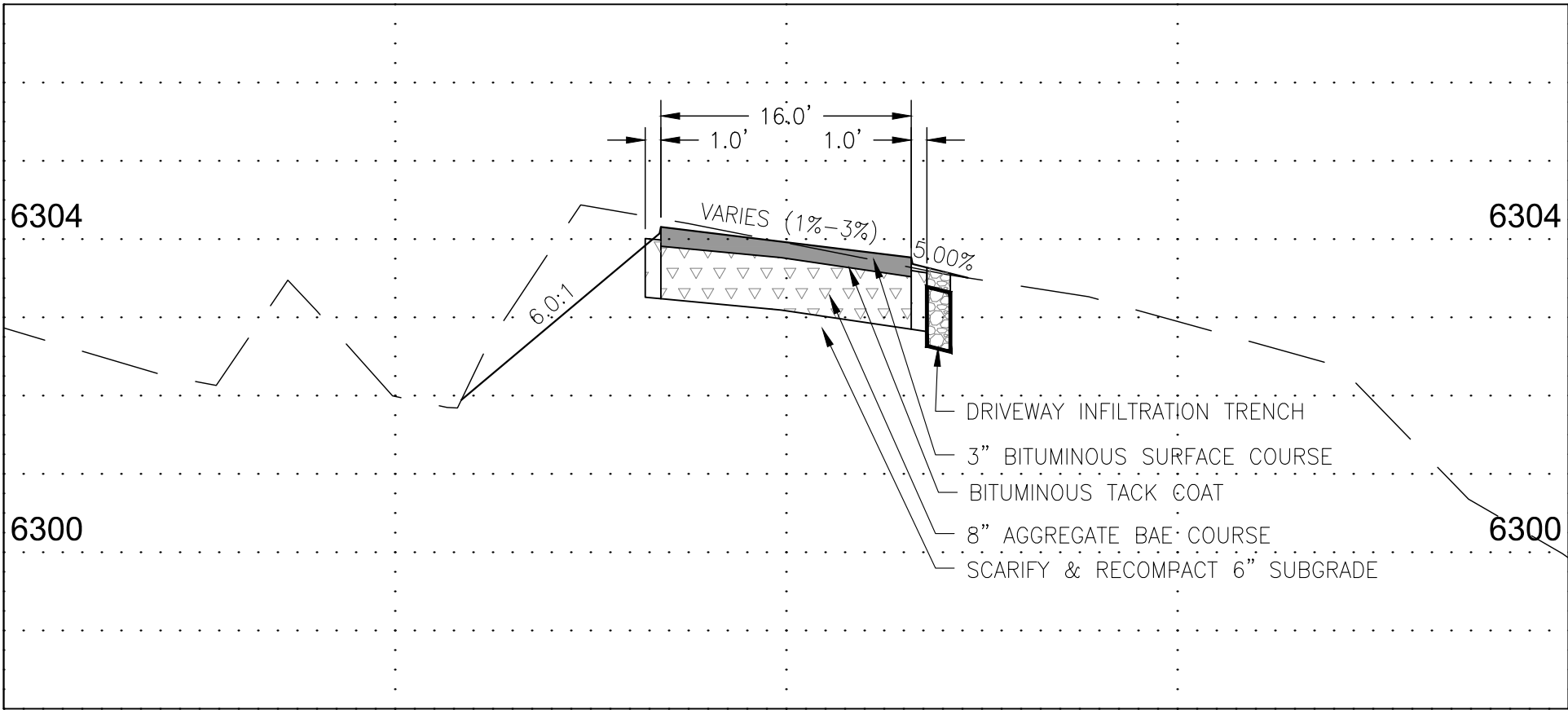


PLAN



ACCESS ROAD PROFILE B-B

HORIZ SCALE: 1"=10'
VERT SCALE: 1"=2'



SECTION C-C

HORIZ SCALE: 1"=10'
VERT SCALE: 1"=2'

ENGINEER OF RECORD

REINARD W. BRANDLEY
CONSULTING AIRPORT ENGINEER
6125 King Road, Suite 201 - Loomis, California 95650 - (916) 652-4725

REVISIONS	BY	DATE

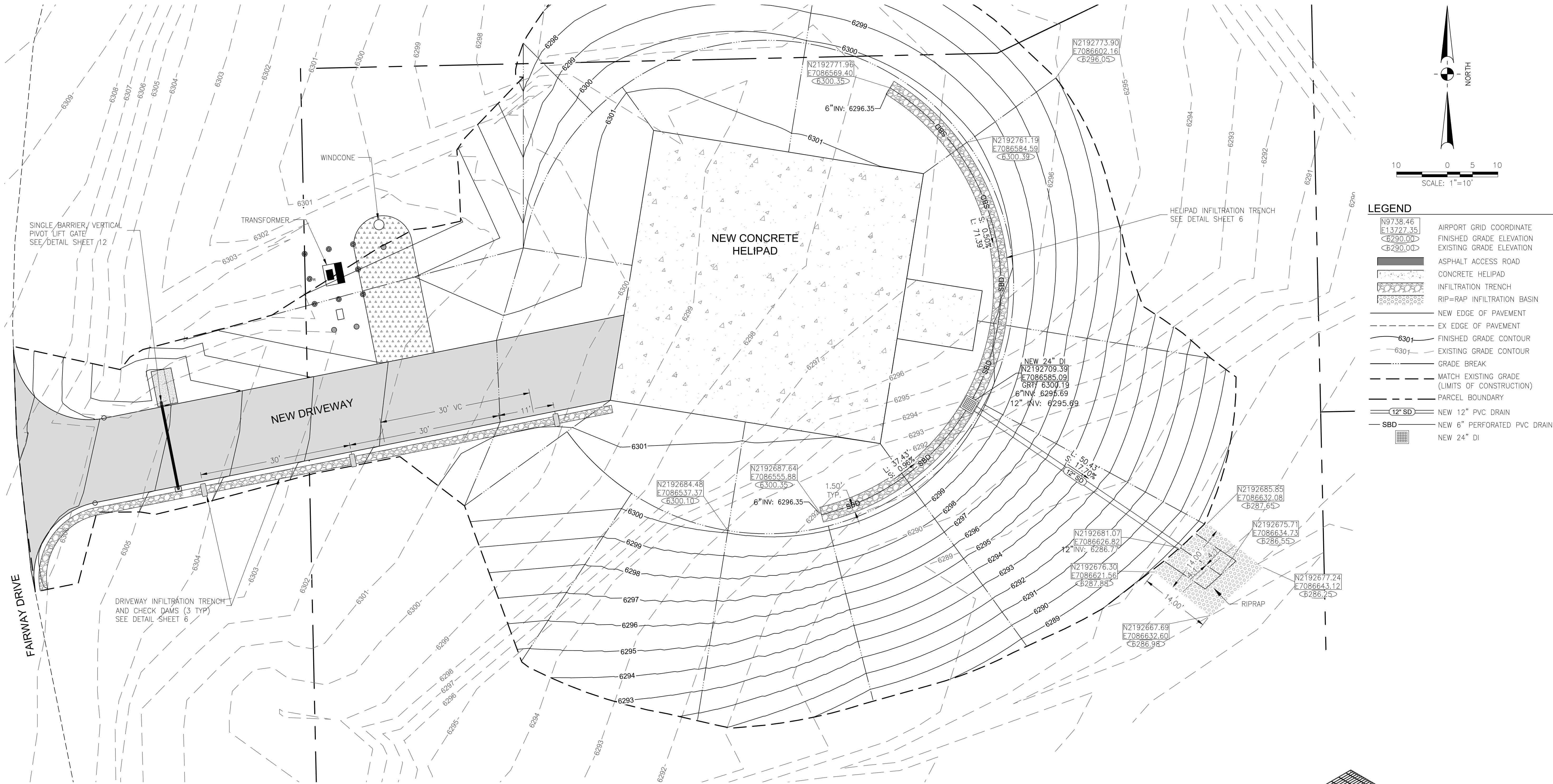
TRUCKEE-TAHOE AIRPORT DISTRICT
CALIFORNIA

TAHOE CITY HELIPORT
TYPICAL SECTIONS

DATE	4/24/2017
DRAWN	KDC
CHECKED	DB
PROJECT No.	40.13
FILE	4013.05-06.GRAD
SCALE	AS SHOWN
SHEET No.	6 OF 17

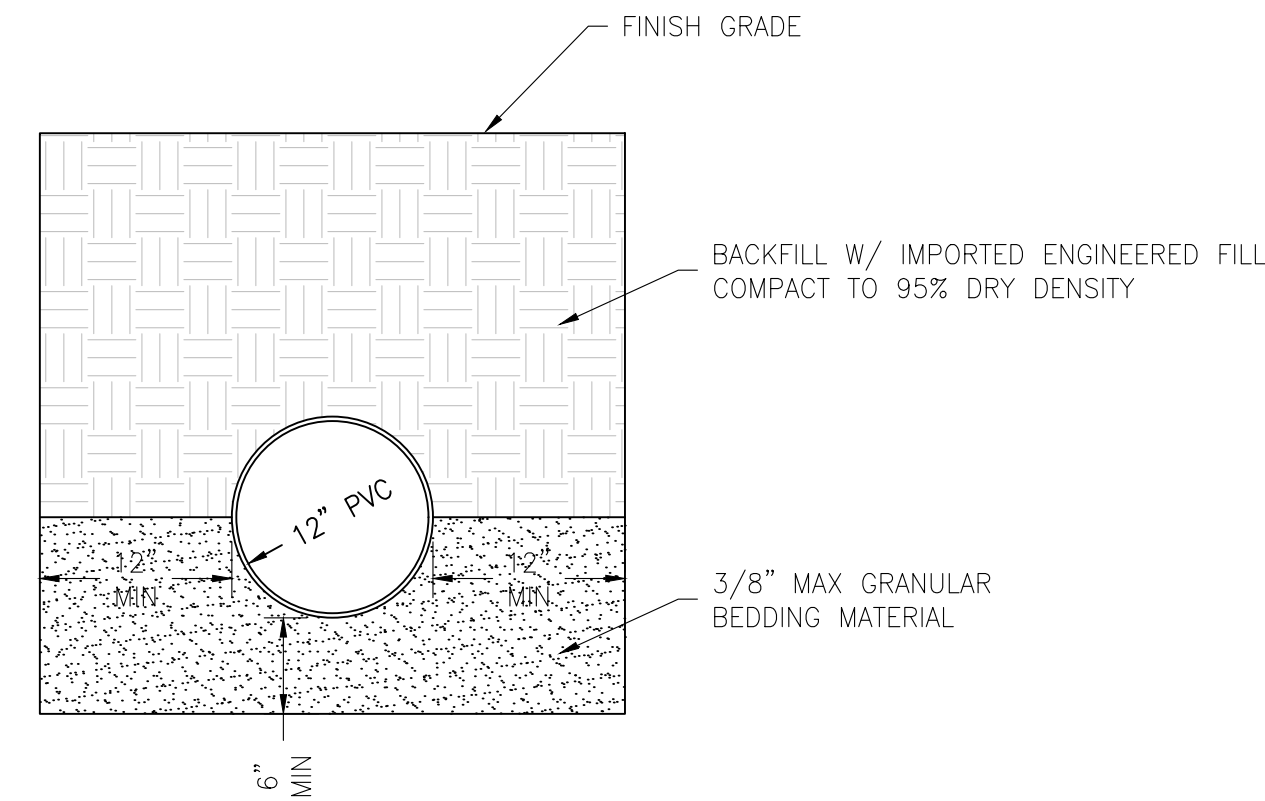
PLOTTED BY Damon Brandley 5/31/2017 3:51 PM

G:\40 TRUCKEE\13 - TAHOE CITY HELIPAD\FINAL HELIPORT DESIGN\4013.06.STORM.DWG

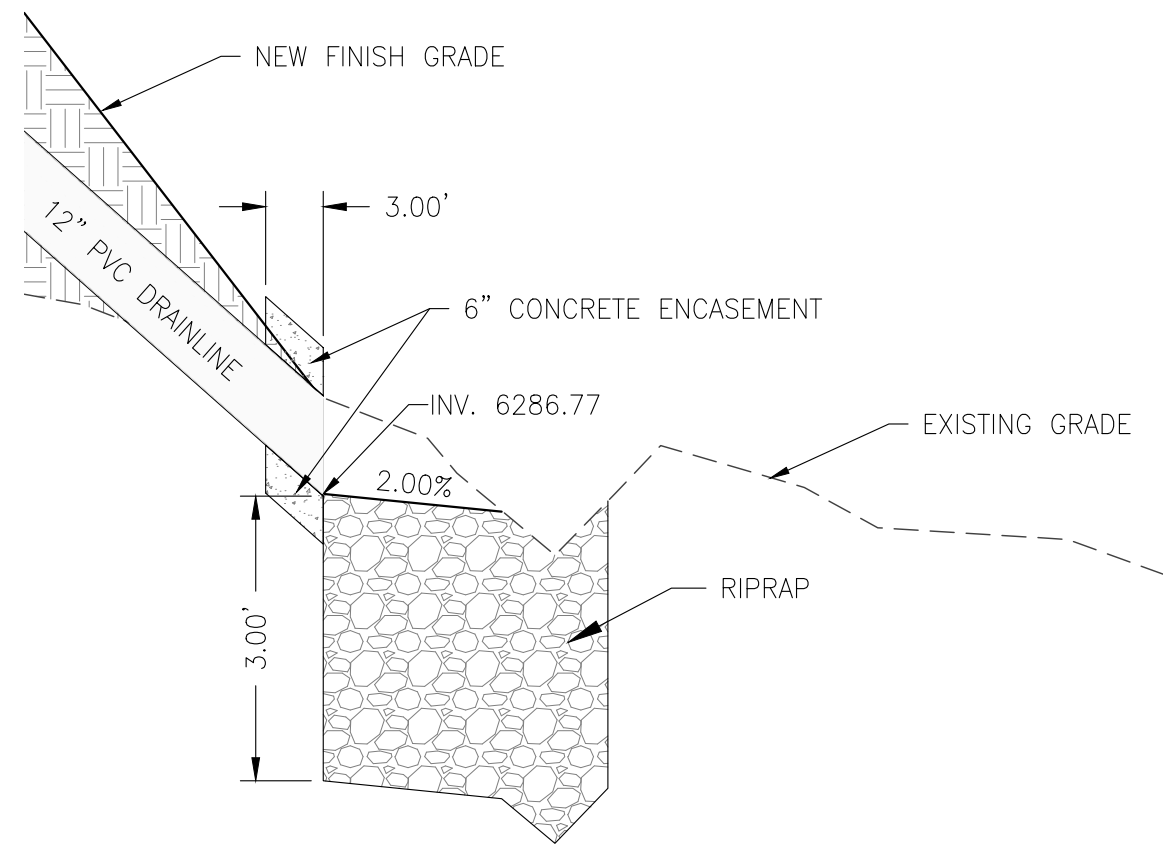


LEGEND

N219773.90 E7086602.16 6296.05	AIRPORT GRID COORDINATE
N2192771.98 E7086569.40 6300.35	FINISHED GRADE ELEVATION
N2192761.19 E7086584.59 6300.39	EXISTING GRADE ELEVATION
[Solid Line]	ASPHALT ACCESS ROAD
[Stippled Area]	CONCRETE HELIPAD
[Dashed Line]	INFILTRATION TRENCH
[Cross-hatched Area]	RIP=RAP INFILTRATION BASIN
[Solid Line]	NEW EDGE OF PAVEMENT
[Dashed Line]	EX EDGE OF PAVEMENT
[Solid Line]	FINISHED GRADE CONTOUR
[Dashed Line]	EXISTING GRADE CONTOUR
[Dotted Line]	GRADE BREAK
[Long Dash Line]	MATCH EXISTING GRADE (LIMITS OF CONSTRUCTION)
[Short Dash Line]	PARCEL BOUNDARY
[Line with '12" SD']	NEW 12" PVC DRAIN
[Line with 'SBD']	NEW 6" PERFORATED PVC DRAIN
[Line with 'DI']	NEW 24" DI

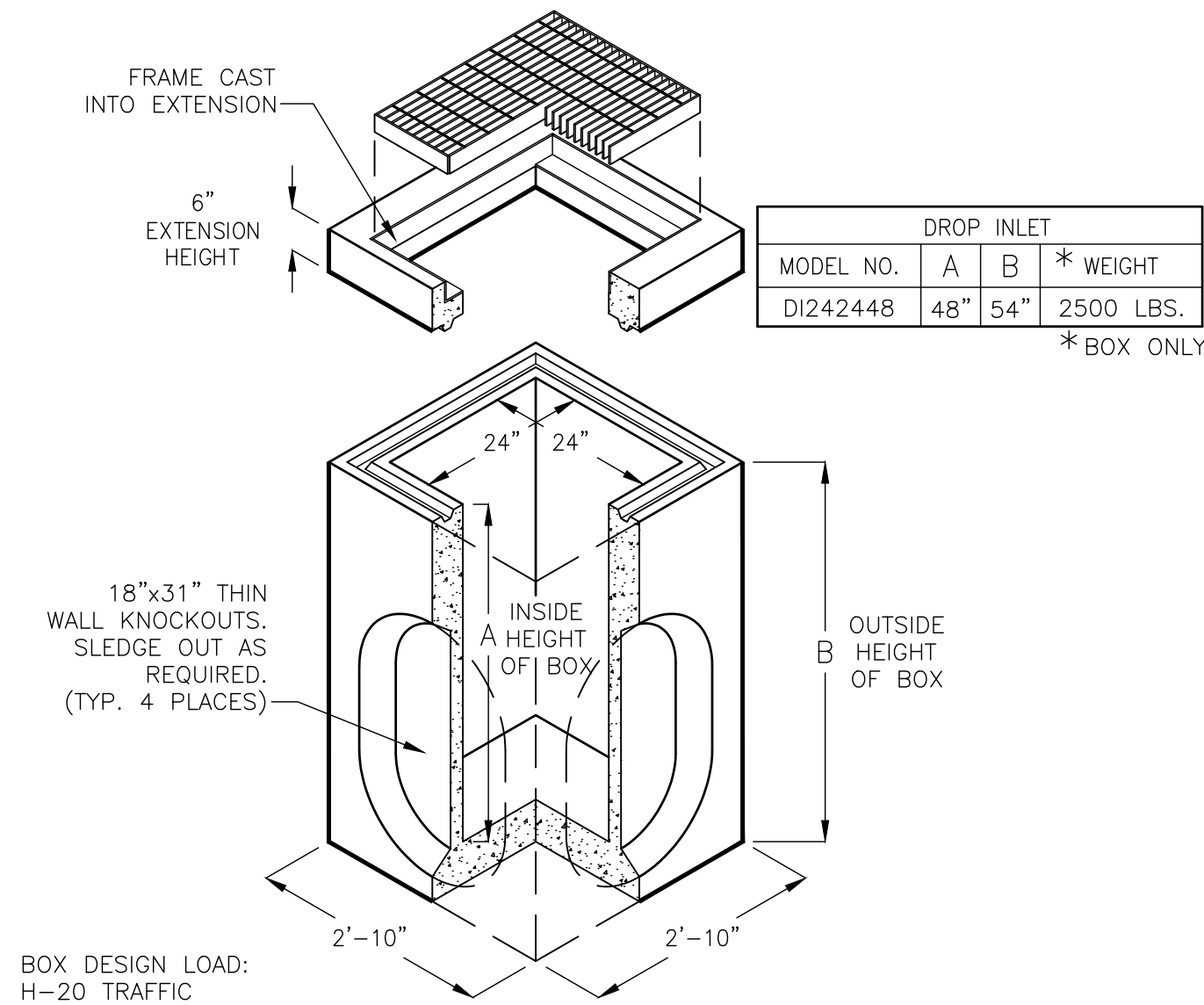


12" PVC DRAIN TRENCH
NTS



DRAIN OUTFALL & RIPRAP DETAIL
NTS

- NOTES:
- SEE SHEET 5 FOR GRADING PLAN
 - SEE SHEET 6 FOR TYPICAL SECTIONS AND DETAILS



24"x24" DROP INLET
NTS

DROP INLET			
MODEL NO.	A	B	* WEIGHT
DI242448	48"	54"	2500 LBS.
* BOX ONLY			

TRUCKEE-TAHOE AIRPORT DISTRICT
CALIFORNIA

TAHOE CITY HELIPORT
DRAINAGE PLAN

ENGINEER OF RECORD
REINARD W. BRANDLEY
REGISTERED PROFESSIONAL ENGINEER
CIVIL
No. 63553
Exp. 6-30-2018
STATE OF CALIFORNIA

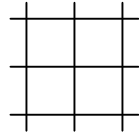
DATE 4/24/2017
DRAWN KDC
CHECKED DB
PROJECT No. 40.13
FILE 4013.06.STORM
SCALE 1"=10'
SHEET No. 7 OF 17

Reinard W. Brandley
CONSULTING AIRPORT ENGINEER
6125 King Road, Suite 201 - Loomis, California 95650 - (916) 652-4725

LEGEND

N2192840.60
E7086446.80

STATE GRID COORDINATE

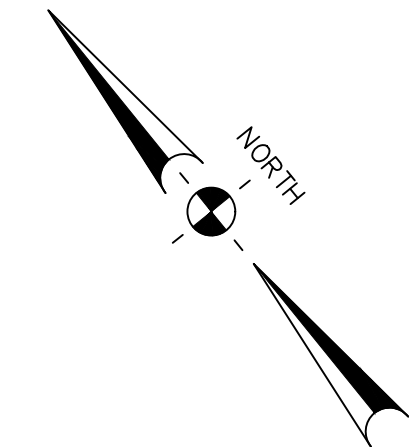


SAW & SEAL JOINT

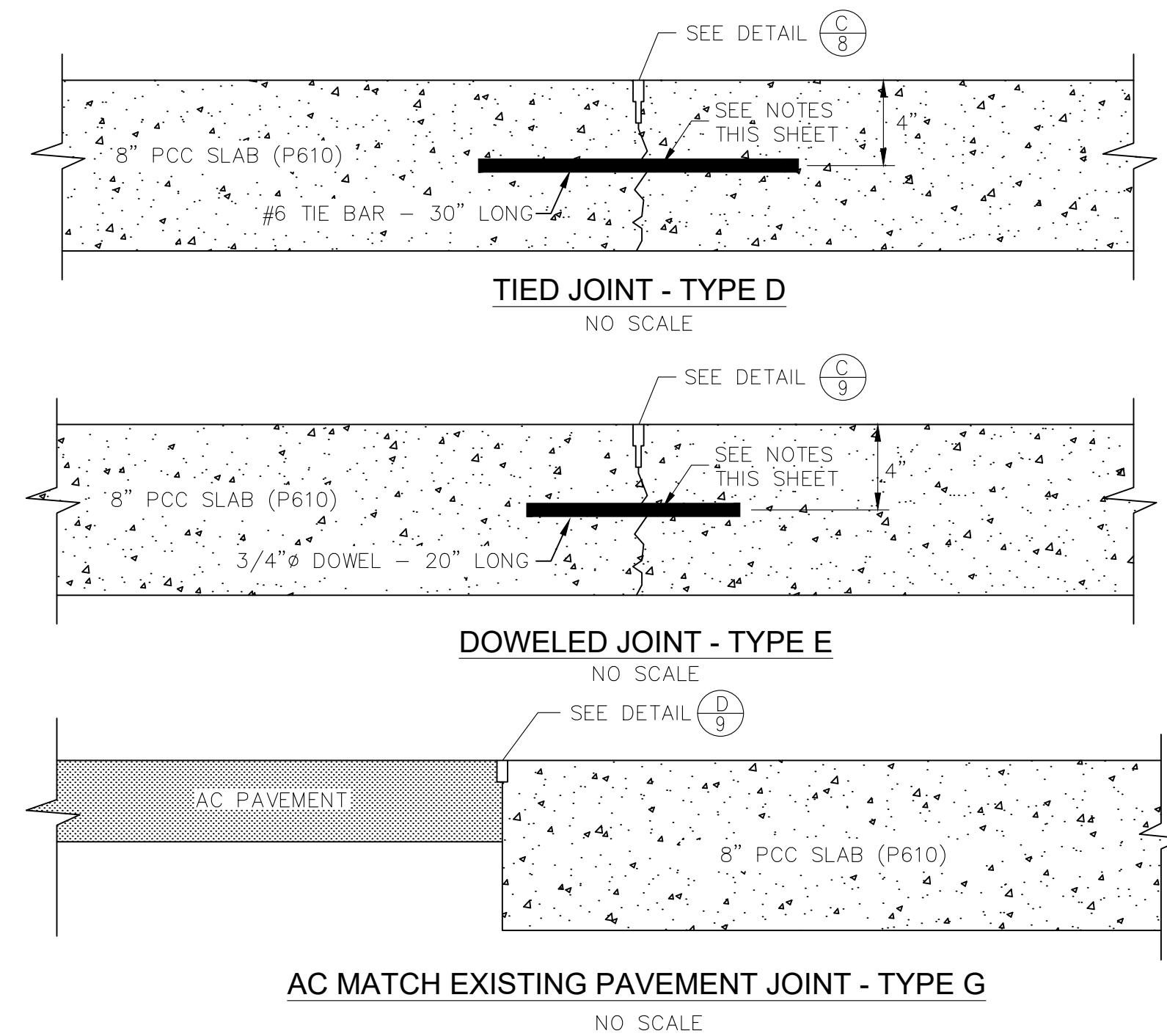
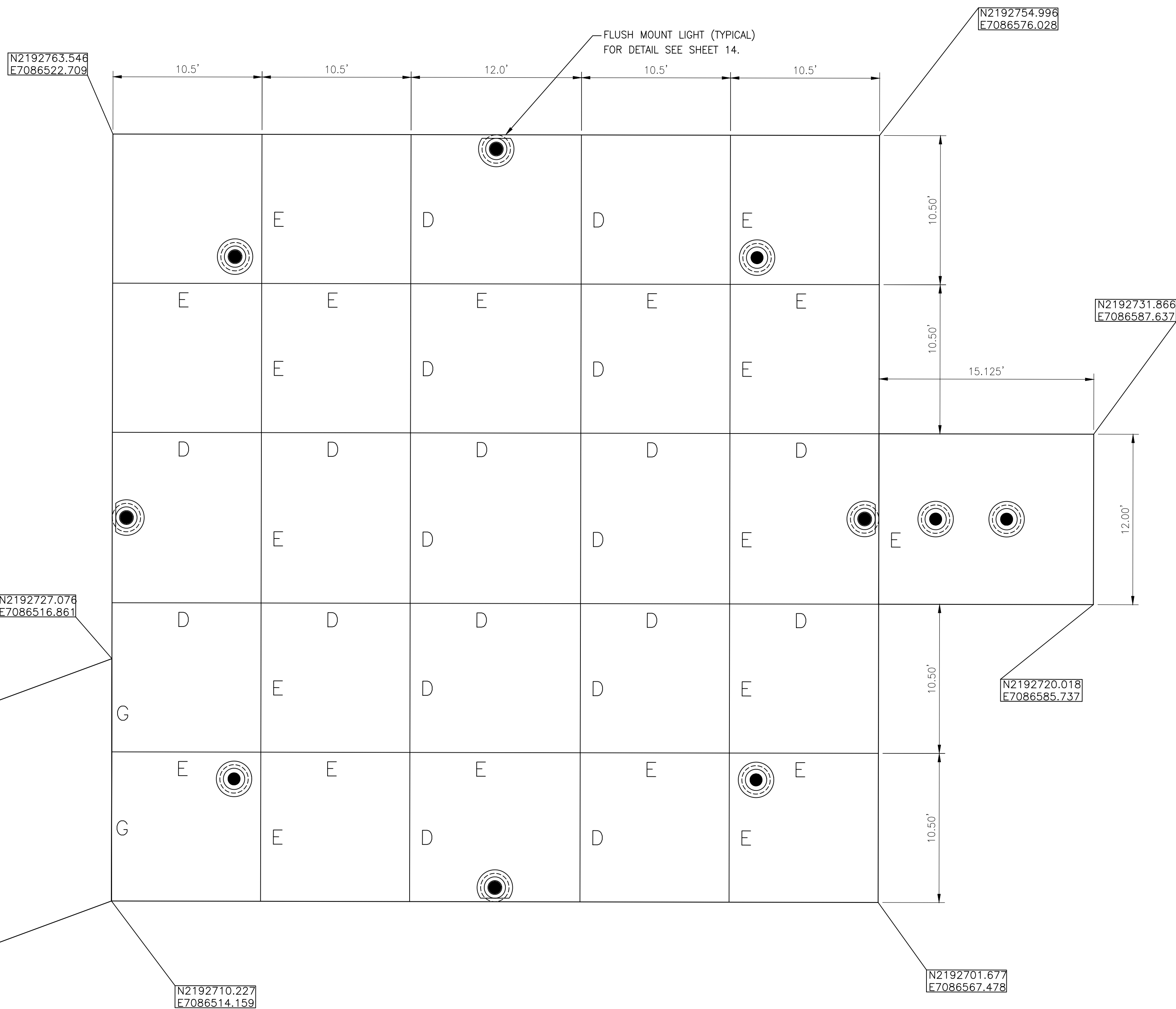
G - AC PAVEMENT TO CONCRETE
D - DOWELED JOINT
E - TIED JOINT



NEW FLUSH MOUNT LIGHT AND L868A LIGHT BASE



5 0 2.5 5
SCALE: 1"=5'



NOTES:

- FOR TYPICAL DOWELED AND TIED JOINT LAYOUTS SEE ABOVE
- FOR JOINT SEALANT DETAILS, SEE SHEET 9
- DOWELS SAHLL BE SMOOTH ROUND STEEL BARS CONFORMING TO ASTM 615, GRADE 60, $\frac{1}{2}$ " SMOOTH, FREE FROM BURRS, BENDS OR OTHER DEFORMATIONS. DOWEL NARS SHALL BE EPOXY-COATED FOR THEIR FULL LENGTH, INCLUDING THE CUR ENDS, WITH A RUST PREVENTATIVE EPOXY FOR A MINIMUM THICKNESS OF 7.0 MILS.
- DOWELS SHALL BE PLACED PARALLEL TO THE FINISHED CONCRETE SURFACE FOR VERTICAL ALIGNMENT AND PERPENDICULAR TO THE JOINT FOR HORIZONTAL ALIGNMENT. THE ALLOWABLE TOLERANCES FOR BOTH THE HORIZONTAL AND VERTICAL ALIGNMENT IS 1/4 INCH FOR THE FULL LENGTH OF THE DOWEL.
- ALL DOWELS WHICH ARE PLACED SHALL BE SECURELY SUPPORTED IN PLACE BY DOWEL BASKETS. DOWEL BASKETS SHALL BE AS SHOWN ON SHEET NO. 9 AND SHALL HAVE PRIOR APPROVAL FOR USE BY THE ENGINEER. NO EXCEPTIONS ALLOWED.
- DIRECT PLACEMENT OF DOWELS & TIEBARS INTO FINISH CONCRETE WILL NOT BE ALLOWED.
- TIE BARS SHALL BE DEFORMED STEEL BARS CONFORMING TO ASTM A 615, GRADE 60, #6.
- ALL SAW CUT JOINTS SHALL HAVE INITIAL CUT 1/8 INCH WIDE TO THE FULL DEPTH SHOWN AS SOON AS POSSIBLE AFTER THE CONCRETE HAS BEEN PLACED. THE SAW CUT SHALL NOT BE WIDENED UNTIL A MINIMUM OF THREE DAYS AFTER PLACING. AFTER THE INITIAL SAW CUT A ROPE OR REMOVABLE FILLER OF APPROPRIATE SIZE SHALL BE PLACED IN THE SAW CUT TO PREVENT DAMAGE TO THE JOINT. THIS ROPE OR FILLER SHALL BE REMOVED PRIOR TO WIDENING THE SAW CUT.
- DOWELED OR TIED CONSTRUCTION JOINTS AS SHOWN ON THE PLANS SHALL BE FORMED AT THE END OF EACH DAY'S POUR. IF WORK IS INTERRUPTED FOR A LONG PERIOD OF TIME AS DETERMINED BY THE ENGINEER, THE CONCRETE SHALL BE REMOVED BACK TO THE NEAREST JOINT AND A CONSTRUCTION JOINT INSTALLED. NO INTERMEDIATE JOINTS WILL BE PERMITTED.
- SEE SHEET 12 FOR LOCATION AND DETAILS OF IN PAVEMENT LIGHTS AND ELECTRICAL CONDUIT.



ENGINEER OF RECORD

No.	REVISIONS	BY	APR	DATE

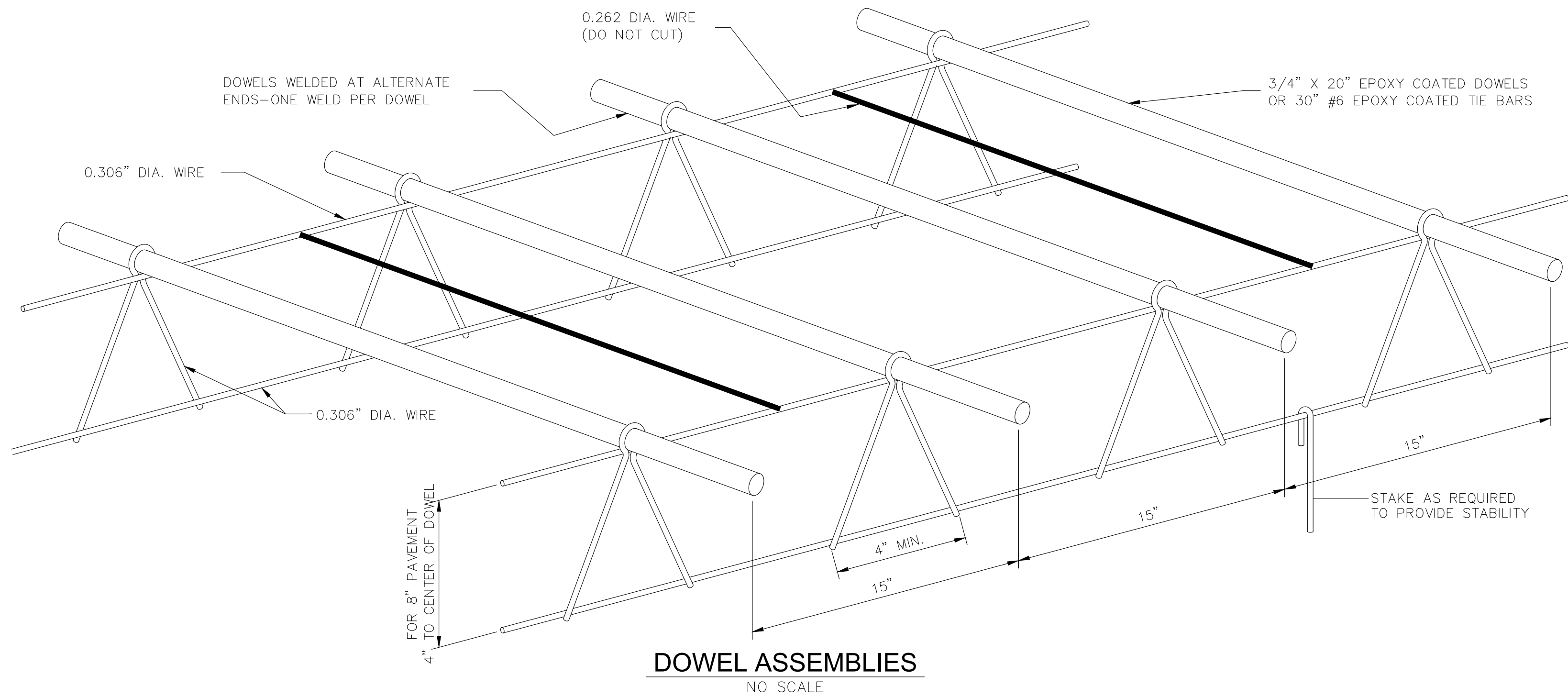
TRUCKEE-TAHOE AIRPORT DISTRICT CALIFORNIA	TAHOE CITY HELIPORT
TRUCKEE	CONCRETE JOINT PLAN

DATE	4/24/2017
DRAWN	KDC
CHECKED	DB
PROJECT No.	40.13
FILE	4013.07-08.JOINT
SCALE	1"=5'
SHEET No.	8 OF 17

Reinard W. Brandley
CONSULTING AIRPORT ENGINEER

6125 King Road, Suite 201 - Loomis, California 95650 - (916) 652-4725

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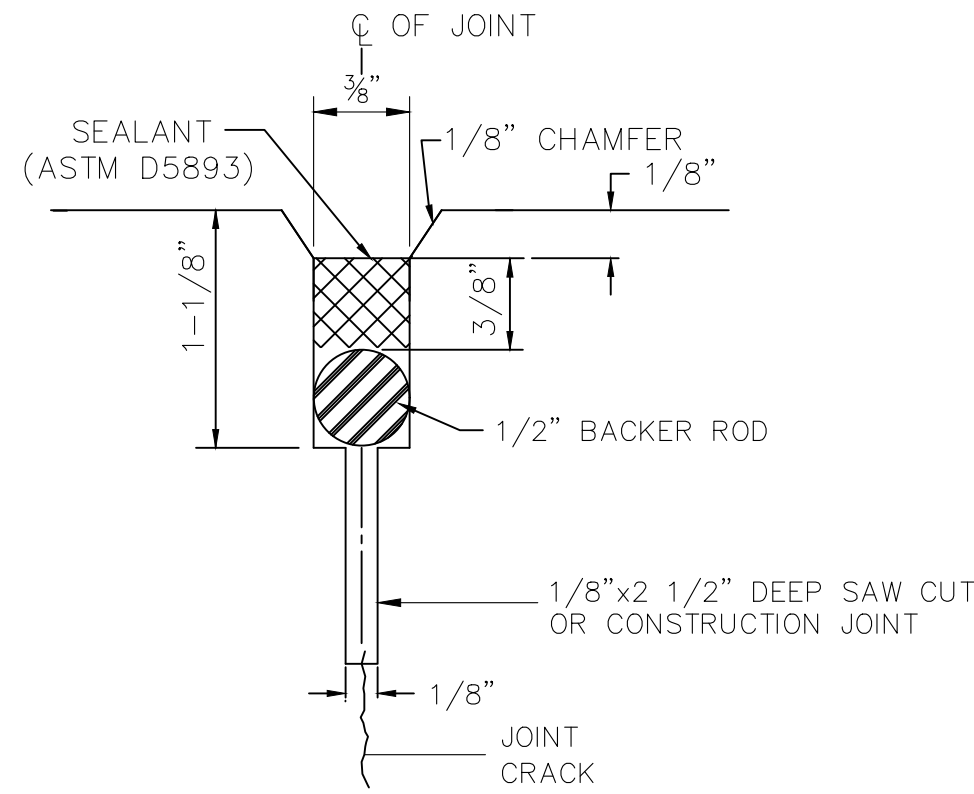


- NOTES:
1. DOWELS TO MEET ASTM A615-GR-60. ALL MATERIALS TO BE PROVIDED SHALL BE MELTED AND MANUFACTURED IN THE UNITED STATES. DOWELS TO BE EPOXY COATED TO MEET AASHTO M-254-B 7 MIL MIN. ENDS OF DOWELS TO BE EPOXY COATED. DOWEL ASSEMBLY LENGTH AS REQUIRED 6 AND 8 DOWEL UNITS.
 2. DOWEL ASSEMBLIES SHALL BE ANCHORED AS REQUIRED TO PREVENT ANY MOVEMENT OF DOWEL ASSEMBLY WHEN PAVING MACHINE PASSES OVER DOWEL ASSEMBLY.
 3. DOWEL ASSEMBLY SUPPORTS SHALL BE 'A' FRAME. 'J' FRAME OR 'U' FRAME WILL NOT BE ALLOWED.

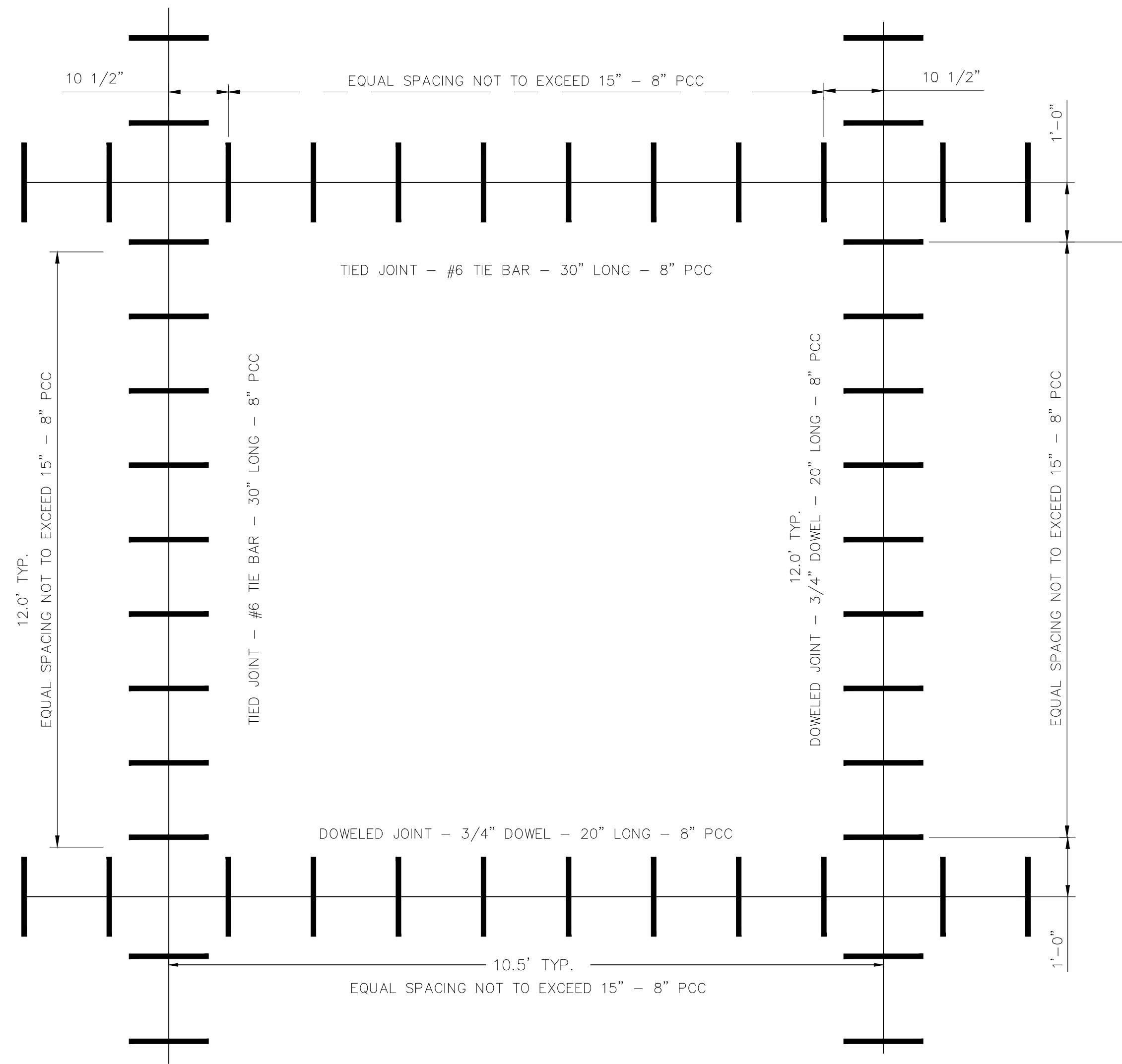
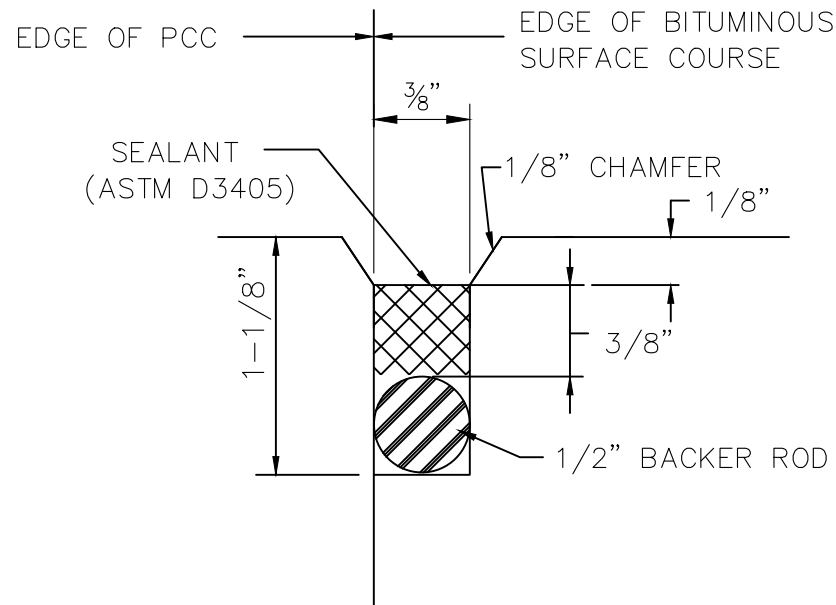
NOTES

1. SEALANT FOR ALL LONGITUDINAL AND TRANSVERSE JOINTS IN THE CONCRETE PAVEMENT SHALL BE COLD APPLIED, SINGLE COMPONENT SILICONE SEALANT (ASTM D5893). DETAIL C.
2. SEALANT FOR JOINTS BETWEEN CONCRETE AND ASPHALT PAVEMENTS SHALL BE LIQUID SEALANT (ASTM D3405). DETAIL D.
3. BACKER ROD SHALL BE OF THE SIZE SHOWN AND SHALL BE STRANDED ROPE MADE OF SYNTHETIC, IMPERVIOUS MATERIAL (NYLON OR APPROVED EQUAL) WHICH WILL NOT ABSORB SEALANT OR PERMIT THE SEALANT TO FLOW PAST THE ROPE OR BE DAMAGED BY HEAT FROM LIQUID SEAL. BACKER ROD SHALL BE HBR-XL AS MANUFACTURED BY HERCULES INC. OR APPROVED EQUAL.

C PCC-PCC JOINT (DOWELED OR TIED)
NTS



D AC-PCC JOINT
NTS



TYP DOWEL OR TIE BAR PLACEMENT
NO SCALE

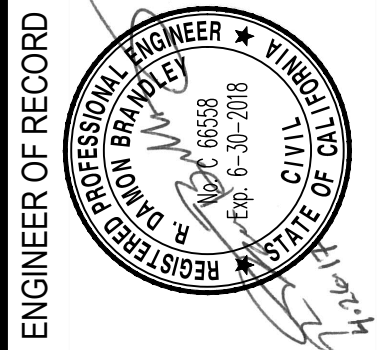
TRUCKEE-TAHOE AIRPORT DISTRICT
CALIFORNIA

TRUCKEE

TAHOE CITY HELIPORT

JOINT DETAILS

DATE	4/24/2017
DRAWN	KDC
CHECKED	DB
PROJECT No.	40.13
FILE	4013.07-08.JOINT
SCALE	1"=200'
SHEET No.	

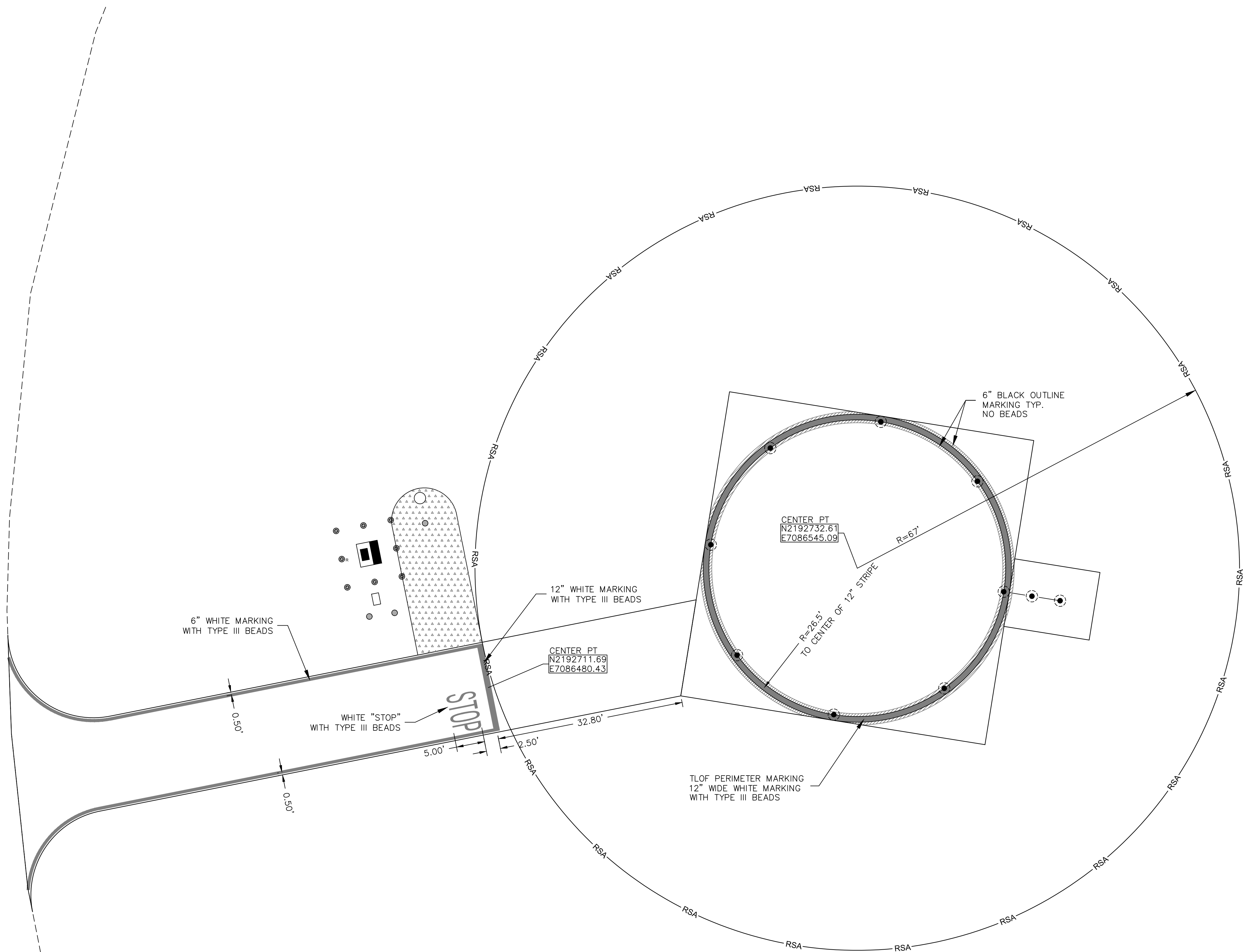


ENGINEER OF RECORD

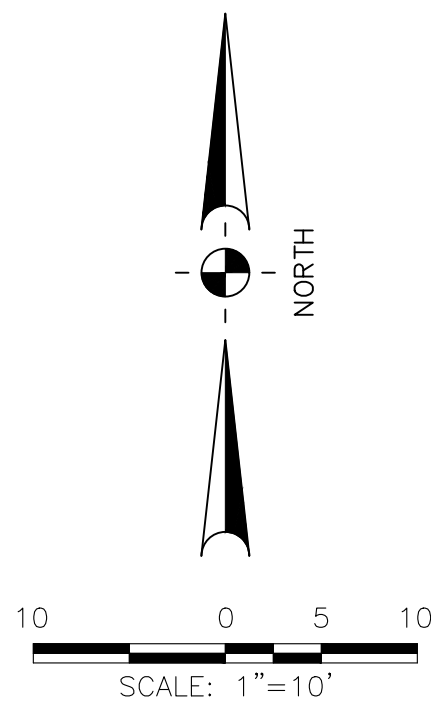
No.	REVISIONS	BY	DATE

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FAIRWAY DRIVE

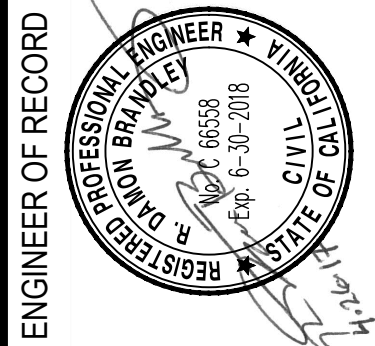


NOTE:
RADIUS DIMENSIONS ARE TO MIDDLE OF CIRCLE SHOWN



TRUCKEE-TAHOE AIRPORT DISTRICT
CALIFORNIA
TAHOE CITY HELIPORT
MARKING PLAN

DATE	4/24/2017
DRAWN	KDC
CHECKED	DB
PROJECT No.	40.13
FILE	4013.13.MARK
SCALE	1"=10'
SHEET No.	10 of 17



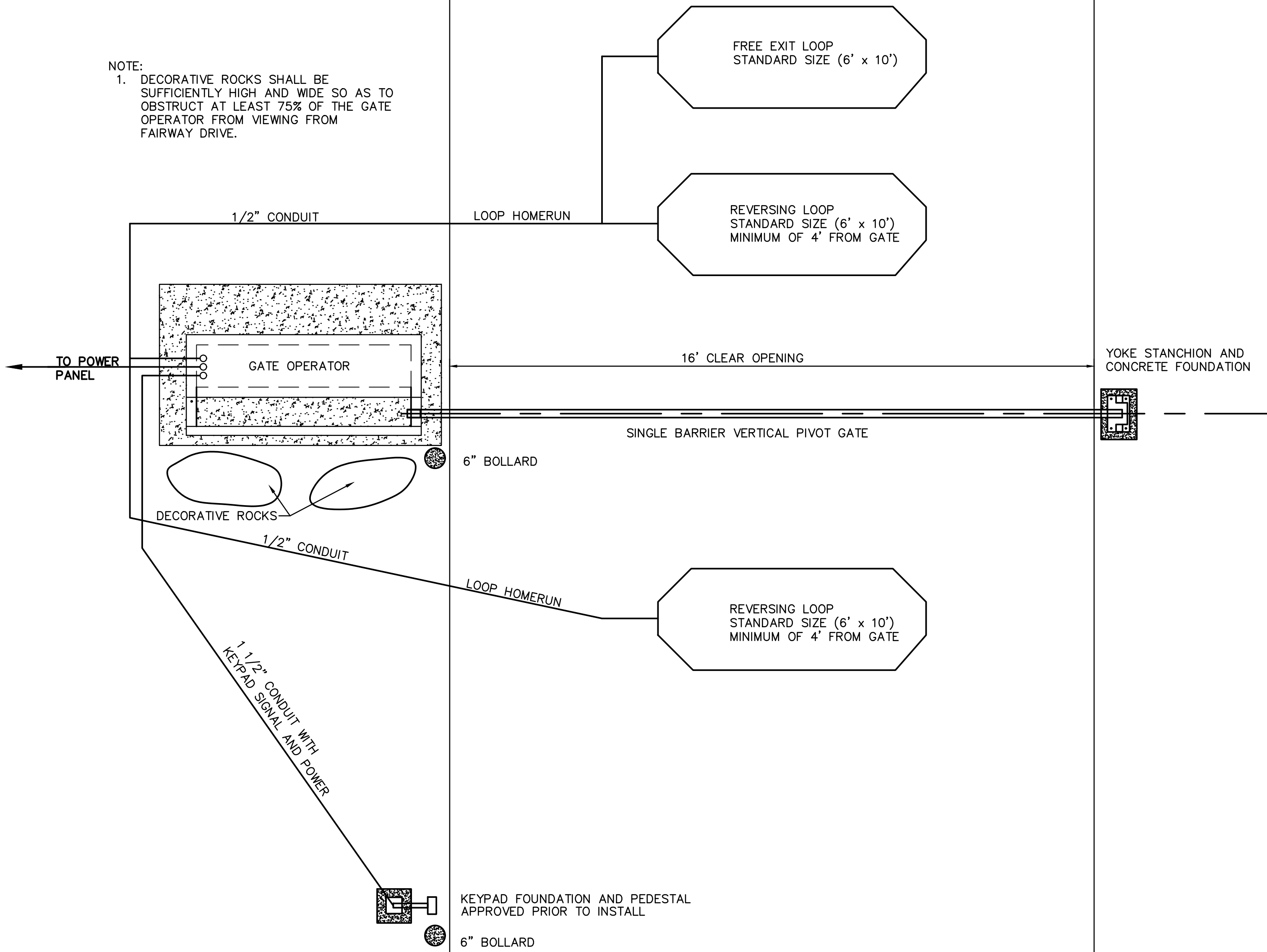
ENGINEER OF RECORD

No.	REVISIONS	BY	APR	DATE

Reinard W. Brandley
CONSULTING AIRPORT ENGINEER
6125 King Road, Suite 201 - Loomis, California 95650 - (916) 652-4725

G:\40 TRUCKEE\13. TAHOE CITY HELIPAD\FINAL HELIPORT DESIGN\4013.09-11.ELEC.DWG PLOTTED BY: Damon Brandley 4/21/2017 3:51 PM

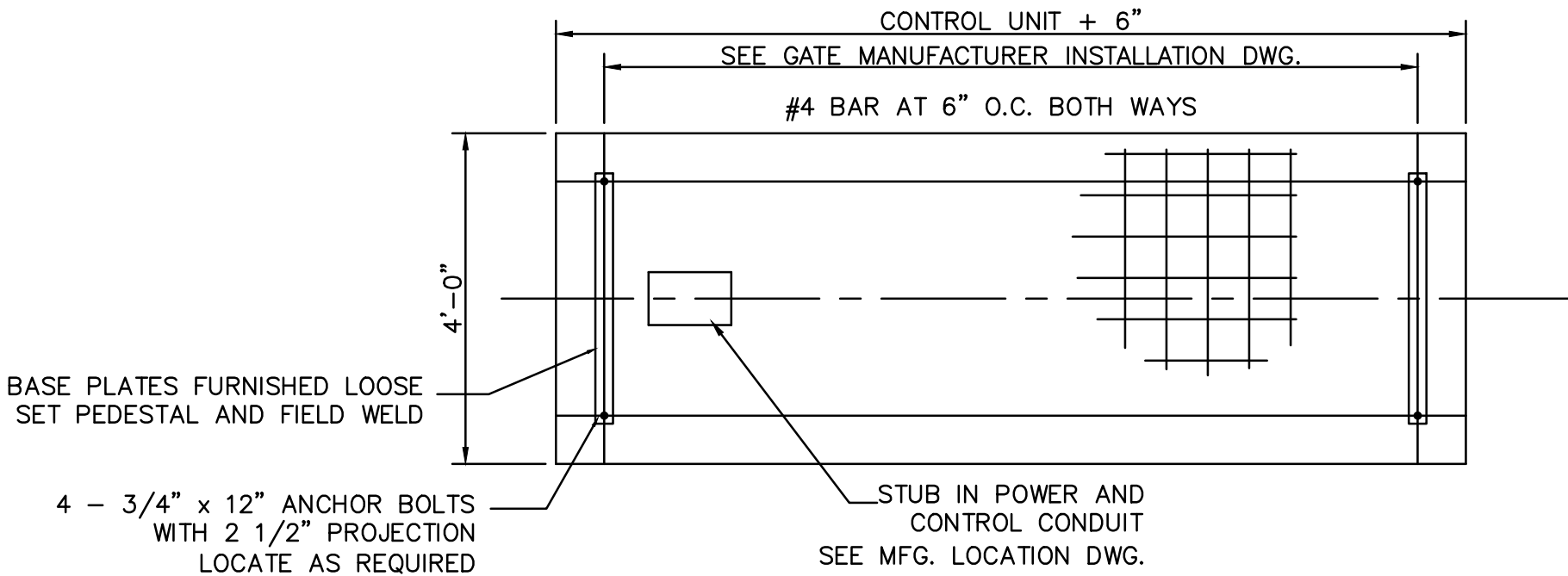
NOTE:
1. DECORATIVE ROCKS SHALL BE SUFFICIENTLY HIGH AND WIDE SO AS TO OBSTRUCT AT LEAST 75% OF THE GATE OPERATOR FROM VIEWING FROM FAIRWAY DRIVE.



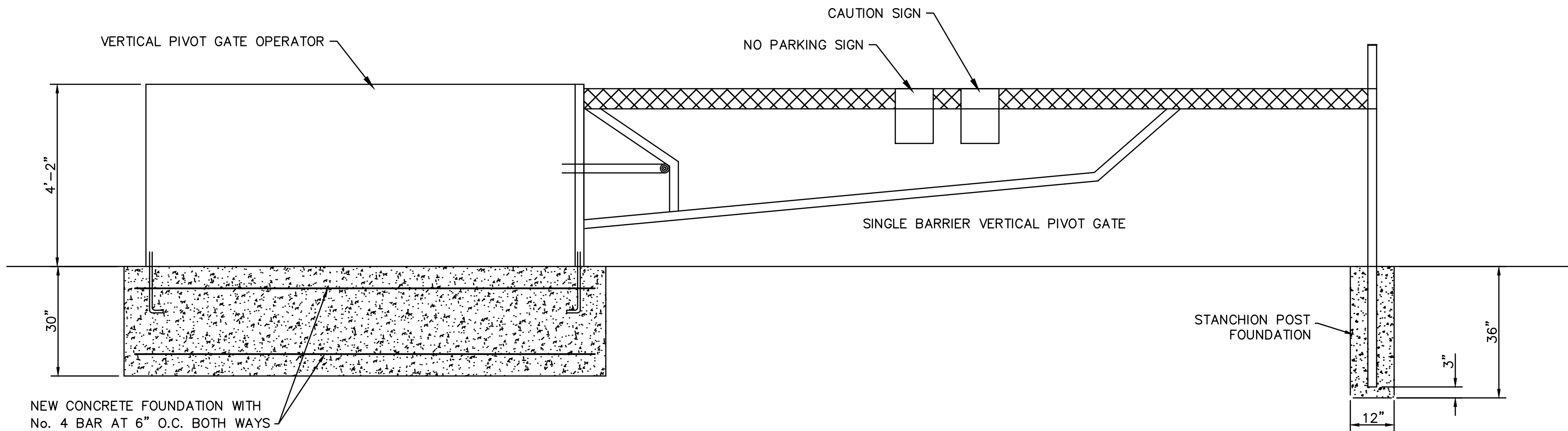
PLAN



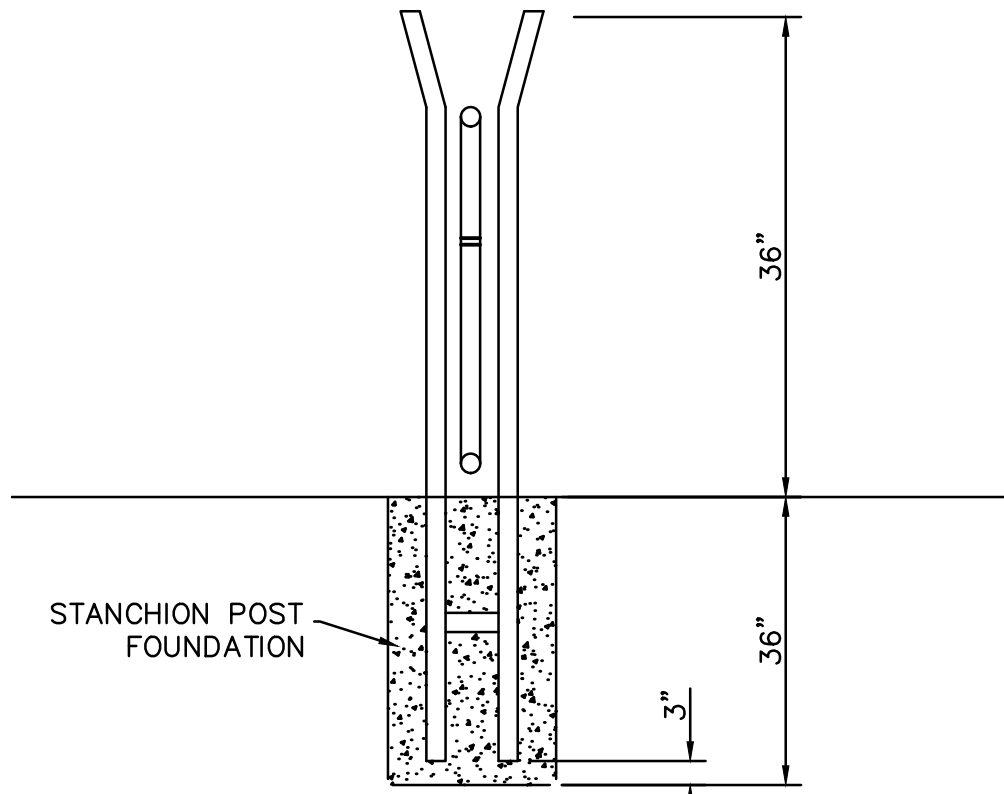
CAUTION SIGN DETAIL
NO SCALE



FOUNDATION PLAN



SECTION



STANCHION SECTION

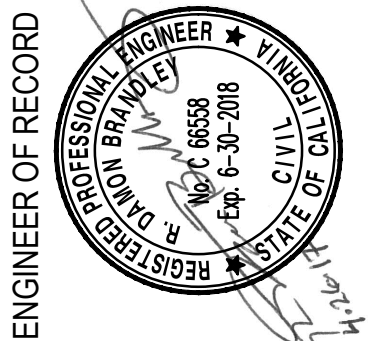
NOTE:
GATE OPERATOR AND GATE SHALL BE SUN-POWER COMMERCIAL C-50 BARRIER ARM OR APPROVED EQUAL.

TRUCKEE-TAHOE AIRPORT DISTRICT
CALIFORNIA

TAHOE CITY HELIPORT

GATE DETAILS

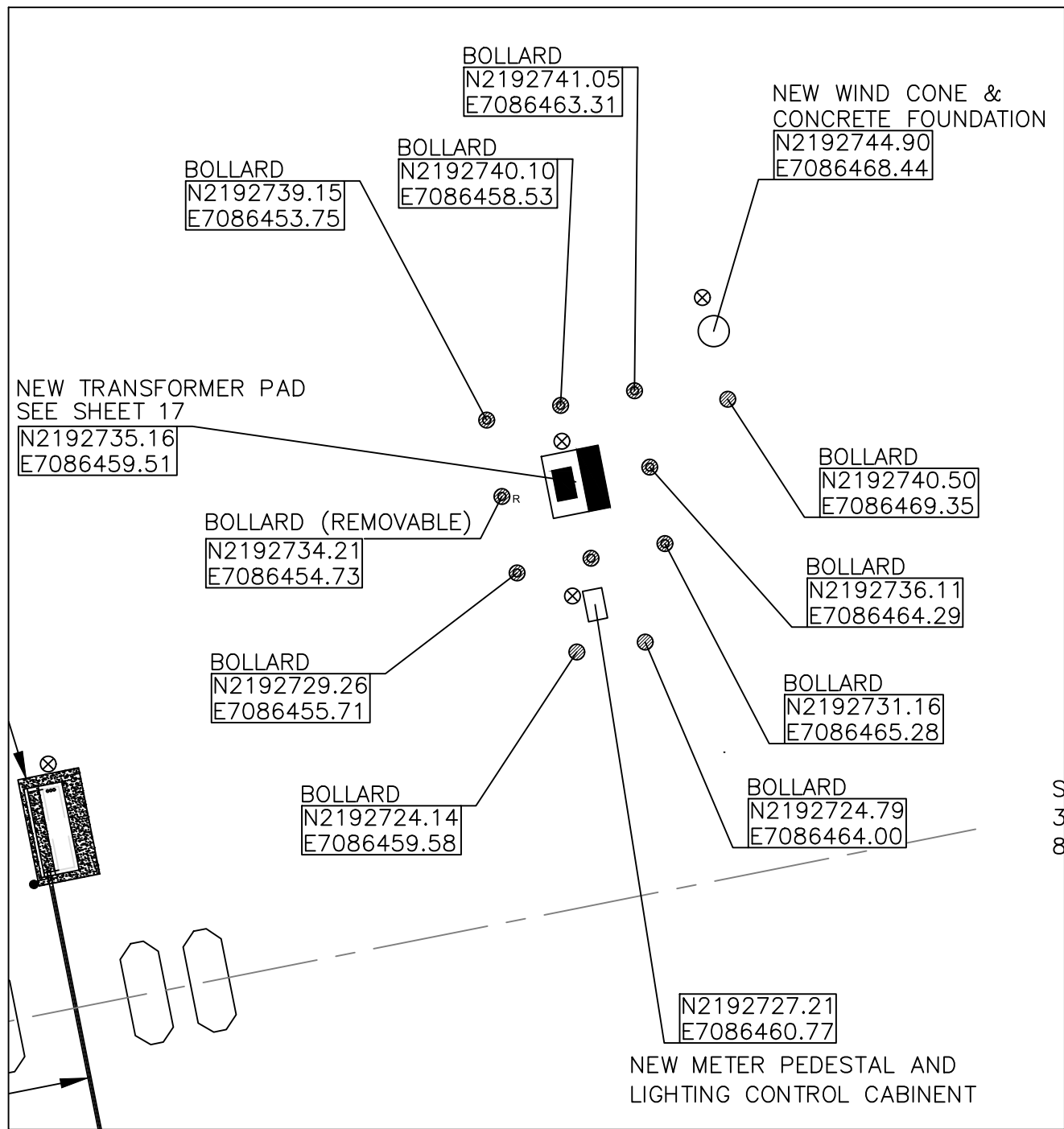
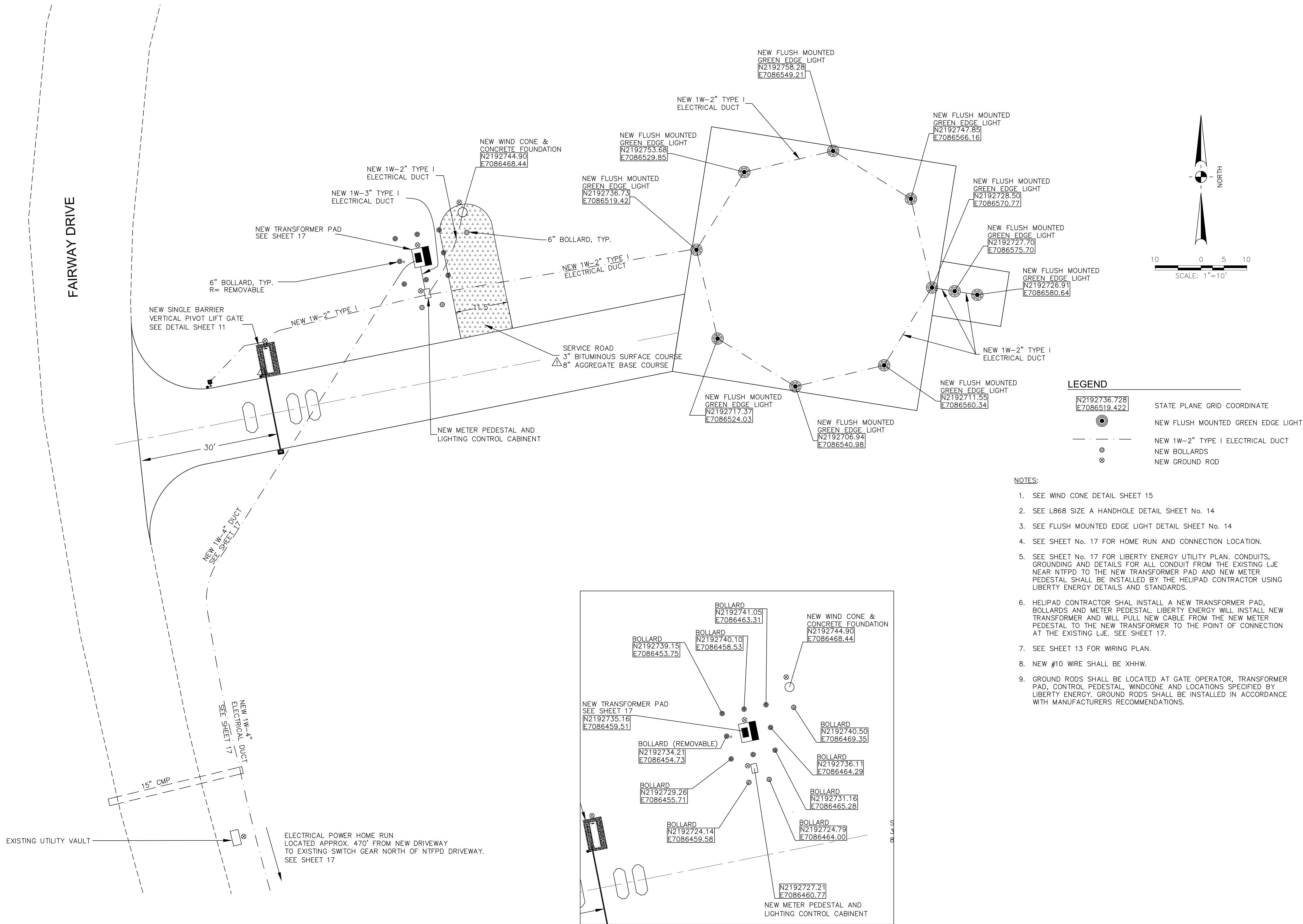
DATE 4/24/2017
DRAWN TAS
CHECKED DB
PROJECT No. 40.13
FILE 4013.09-11.ELEC
SCALE 1"=200'
SHEET No.



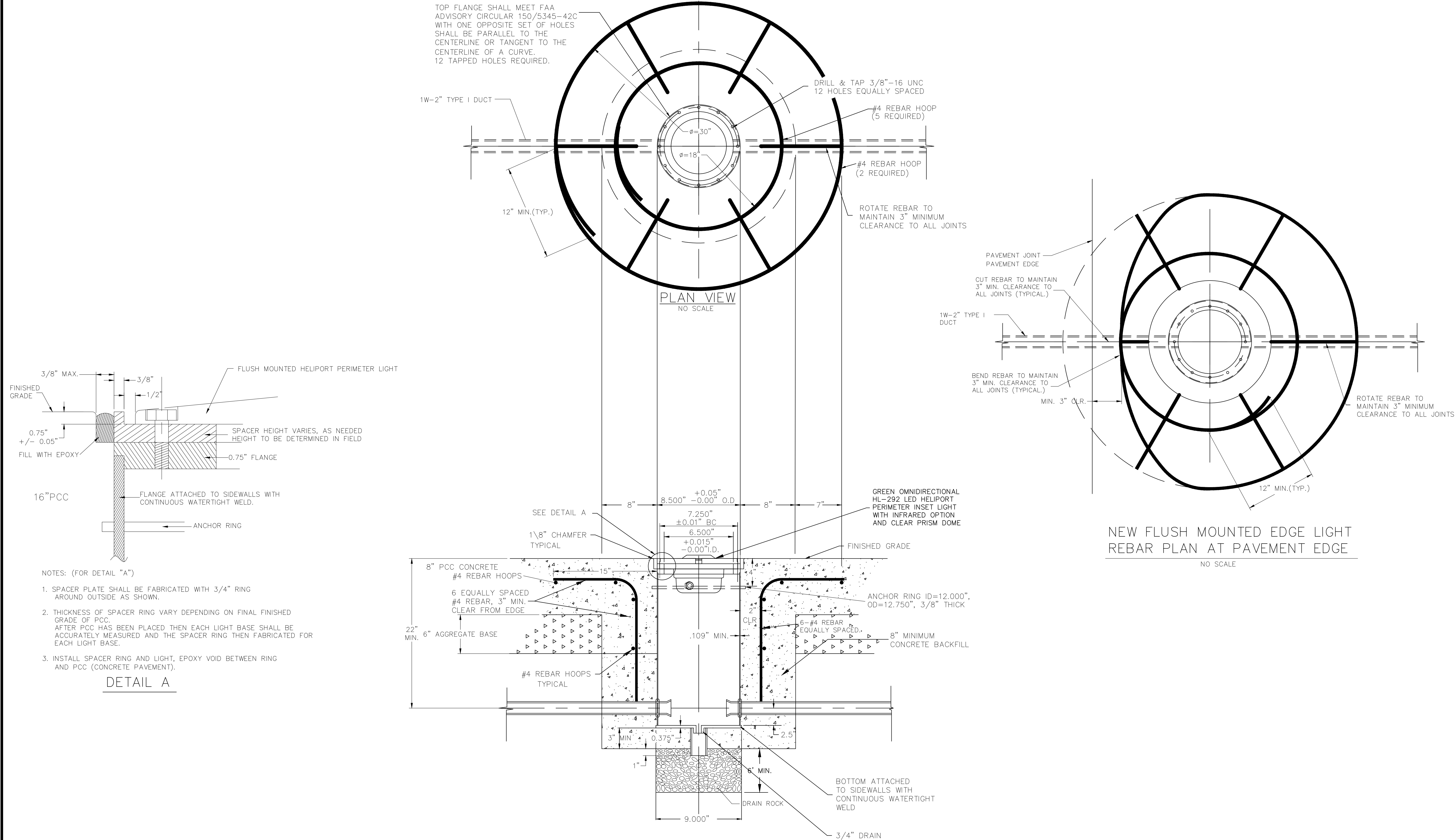
ENGINEER OF RECORD

Reinard W. Brandley
CONSULTING AIRPORT ENGINEER

6125 King Road, Suite 201 · Loomis, California 95650 · (916) 652-4725



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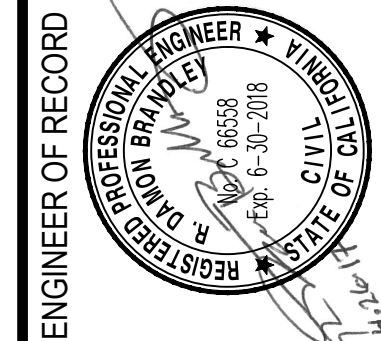


LIGHT BASE NOTES:

A. LIGHT BASE AND LIGHT SHALL BE TYPE L-868 CLASS I SIZE A AND MEET THE REQUIREMENTS OF FAA ADVISORY CIRCULAR 150/5345-42G & 46D.

ELEVATION
NEW FLUSH MOUNTED EDGE LIGHT
NO SCALE

L-868A LIGHT BASE FOR 8" CONCRETE PAVEMENT

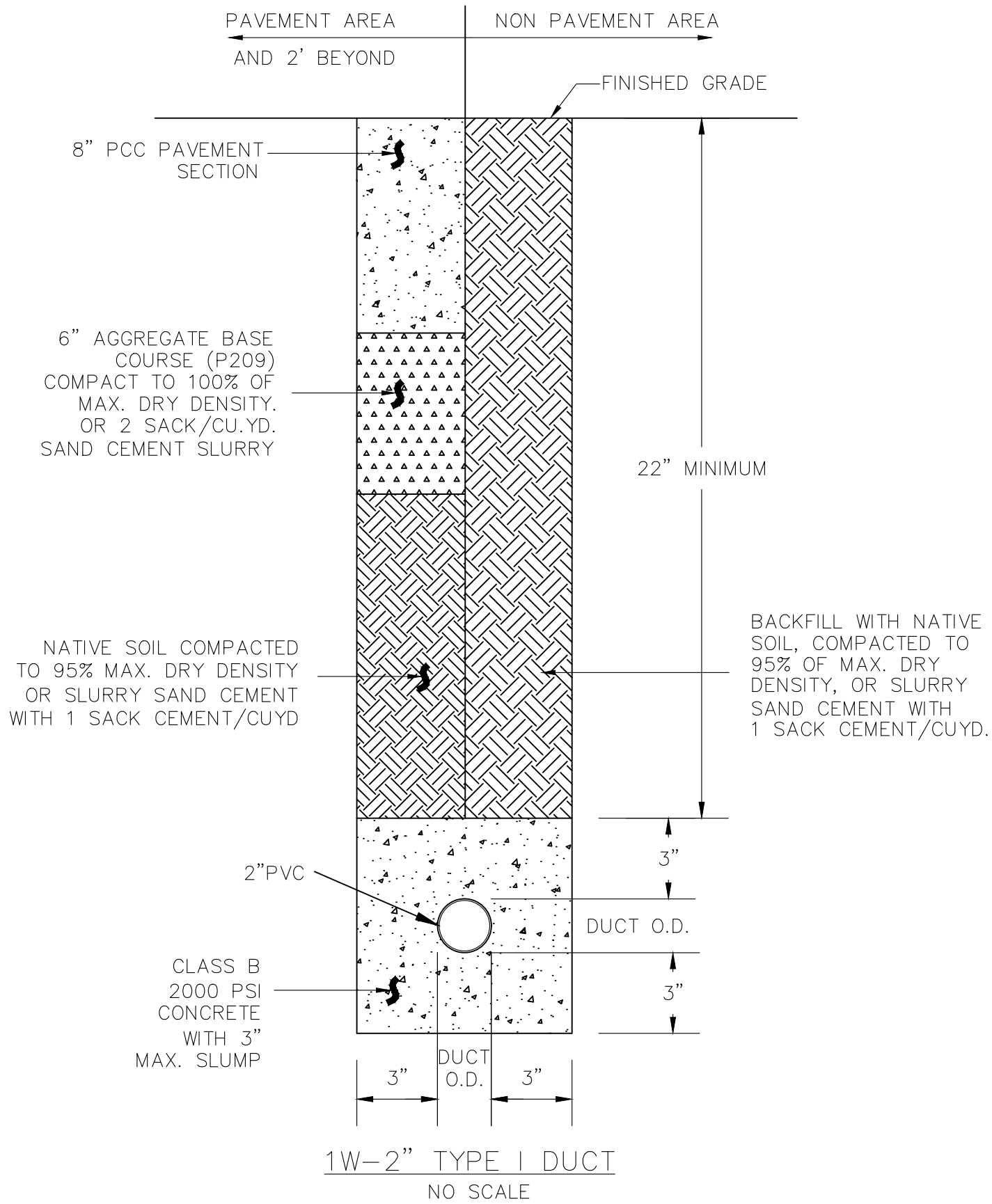
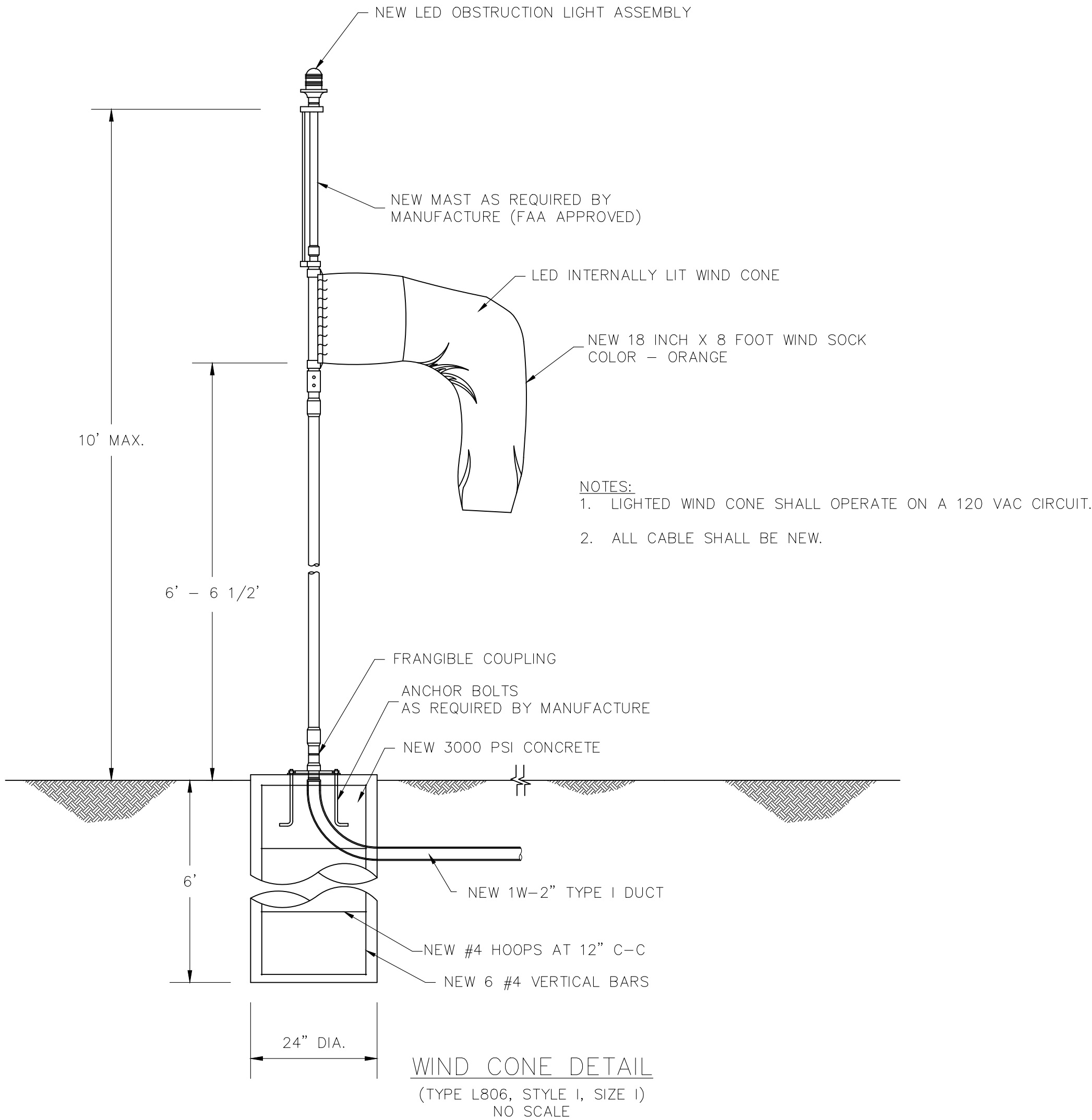


Reinard W. Brandley
CONSULTING AIRPORT ENGINEER
6125 King Road, Suite 201 - Loomis, California 95650 - (916) 652-4725

TRUCKEE-TAHOE AIRPORT DISTRICT
CALIFORNIA
TAHOE CITY HELIPORT
LIGHT DETAILS

DATE 4/24/2017
DRAWN TAS
CHECKED DB
PROJECT No. 40.13
FILE 4013.09-11.ELEC
SCALE 1"=200'
SHEET No. 14 OF 17

G:\40 TRUCKEE\13 -TAHOE CITY HELIPAD\FINAL HELIPORT DESIGN\4013.09-11.ELEC.DWG PLOTTED BY Damon Brandley 5/31/2017 3:51 PM

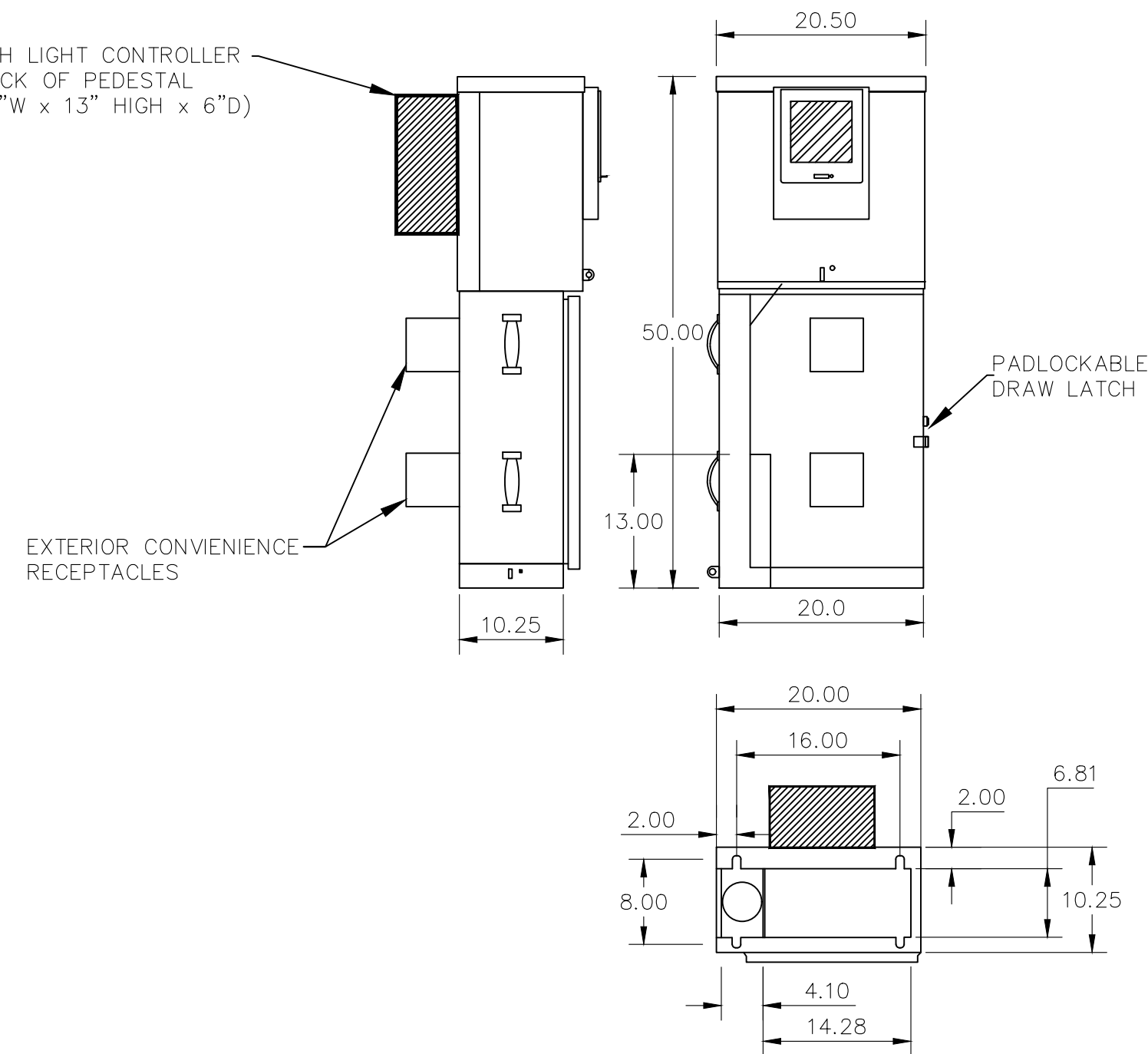


LIGHT CONTROLLER
HL-RC-AC1-AC-D-P HELIPORT SYSTEM CONTROLLER
INPUT POWER: AC1 (120V, 60HZ)
OUTPUT POWER: AC
ACTIVATION: FAA STYLE PHOTOCELL, PILOT CONTROL

ATTACH LIGHT CONTROLLER
TO BACK OF PEDESTAL
(10.25"W x 13" HIGH x 6"D)

EXTERIOR CONVENIENCE
RECEPTACLES

TESCO PEDESTAL
MODEL 27-000

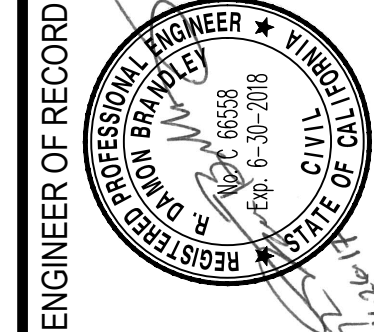


METER PEDESTAL AND LIGHTING CONTROL PANEL
NO SCALE

TRUCKEE-TAHOE AIRPORT DISTRICT
CALIFORNIA

TAHOE CITY HELIPORT
ELECTRICAL DETAILS

DATE 4/24/2017
DRAWN TAS
CHECKED DB
PROJECT No. 40.13
FILE 4013.09-11.ELEC
SCALE 1"=200'
SHEET No. 15 OF 17



ENGINEER OF RECORD

REVISIONS	BY	APR	DATE
No.			

ENGINEER OF RECORD

DATE 4/24/2017
DRAWN TAS
CHECKED DB
PROJECT No. 40.13
FILE 4013.09-11.ELEC
SCALE 1"=200'
SHEET No. 15 OF 17

Reinard W. Brandley
CONSULTING AIRPORT ENGINEER

6125 King Road, Suite 201 - Loomis, California 95650 - (916) 652-4725

LIBERTY ENERGY DETAIL
NO SCALE

LIBERTY ENERGY DETAIL
NO SCALE

LIBERTY ENERGY DETAIL
NO SCALE

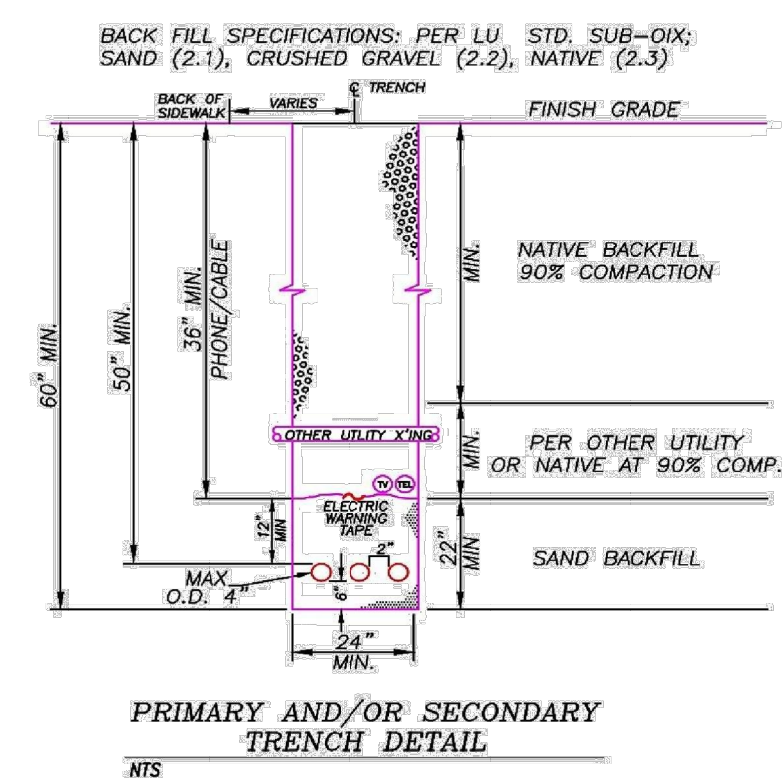
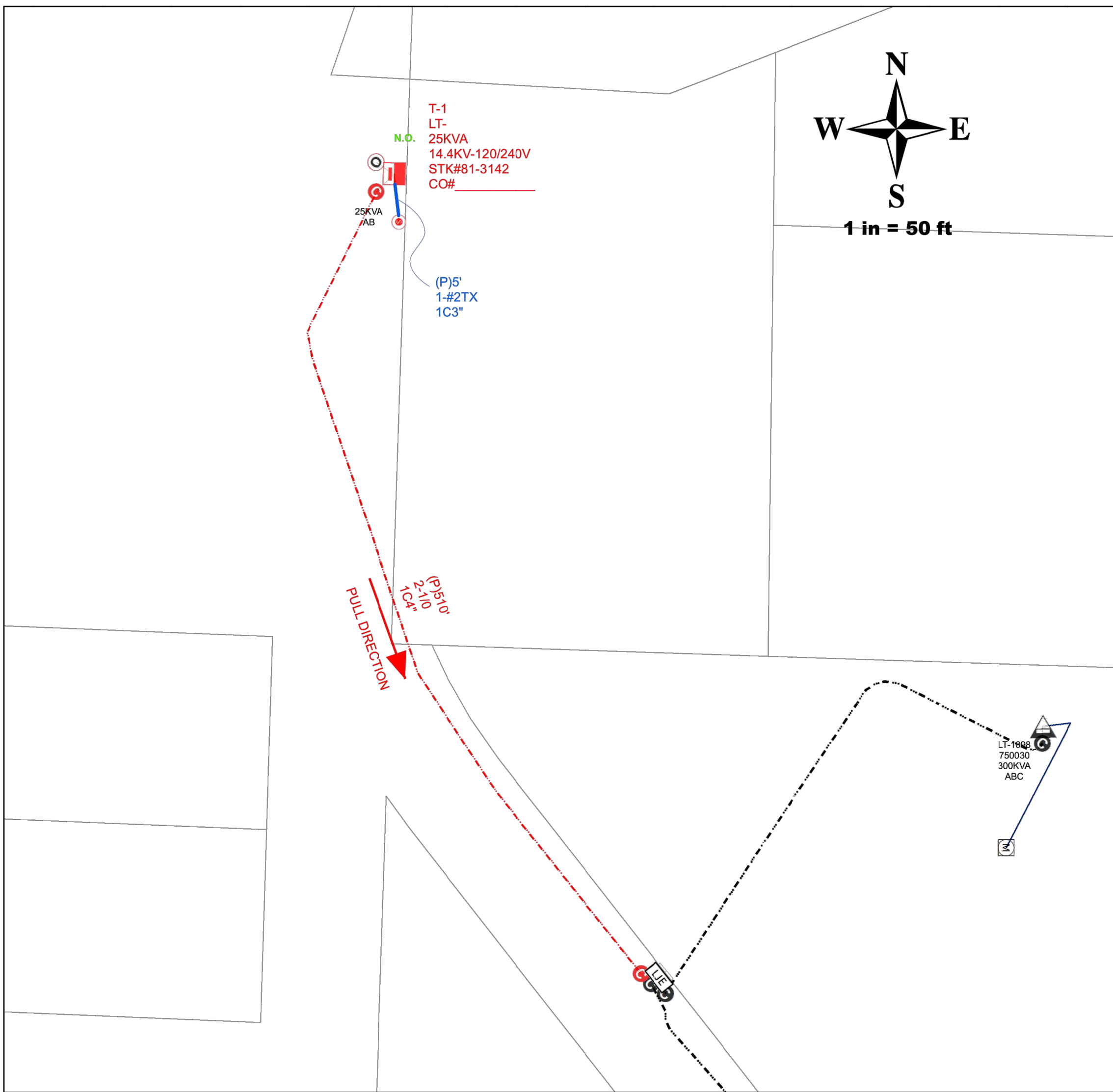
LIBERTY ENERGY DETAIL
NO SCALE

LIBERTY ENERGY DETAIL
NO SCALE

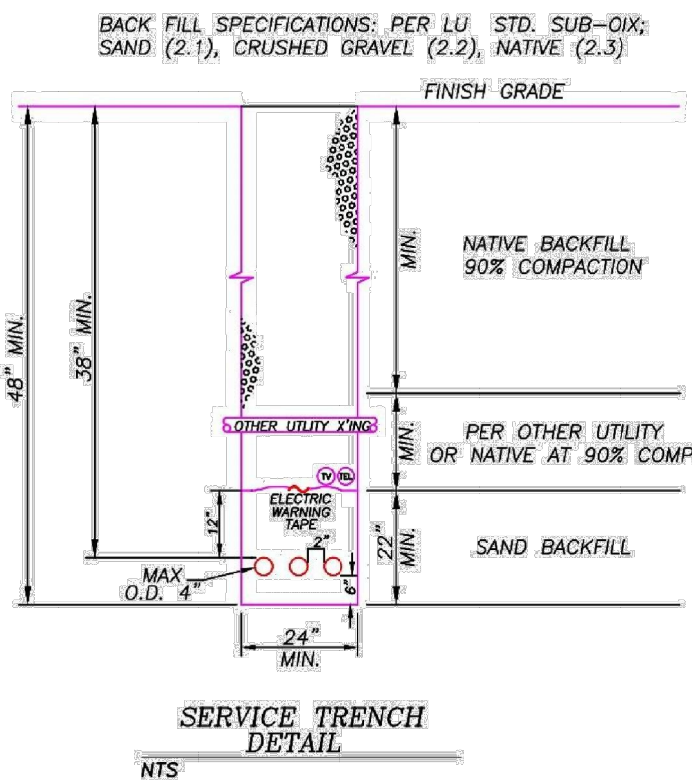


FAIRWAY DR-COM-TTAD

Job Number: 8800-0216-9001
Service Number: 8800-0217-0070



(LJE TO NEW TRANSFORMER AND METER PEDESTAL)

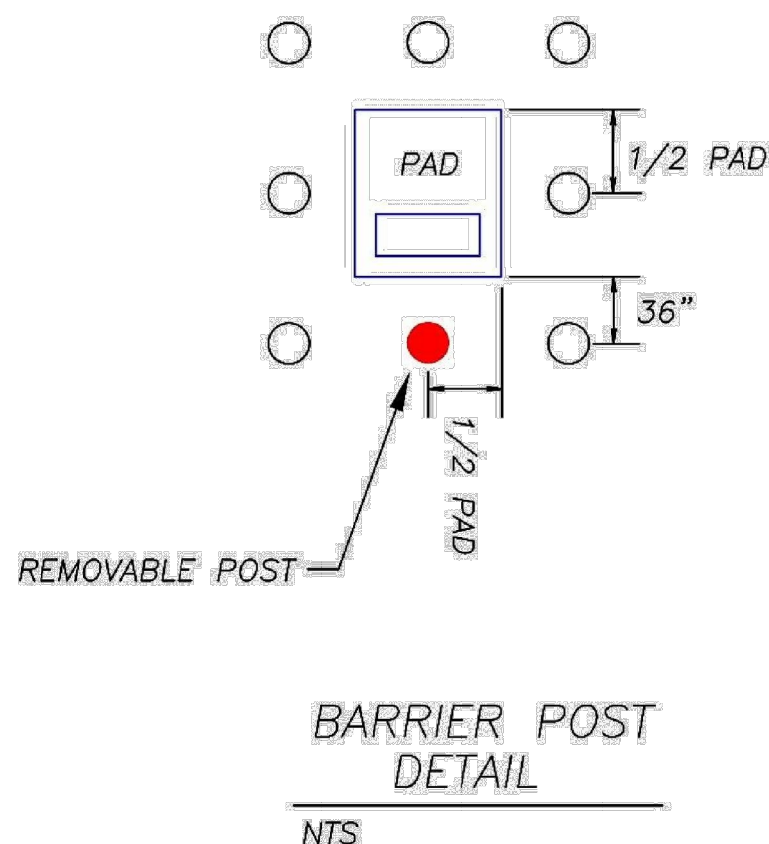
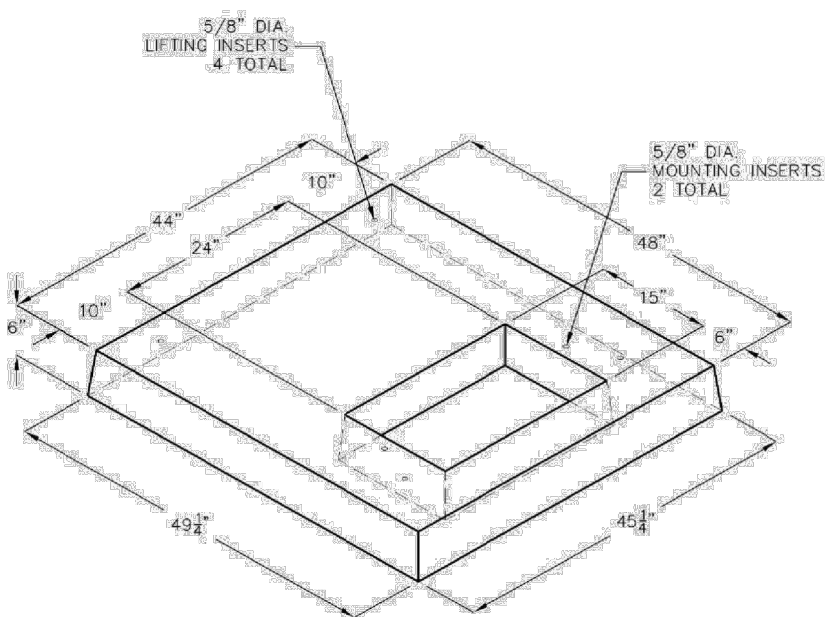


(SEE 1W-2" DETAIL SHEET 15 FOR TRENCHES BEGINNING AT PANEL)



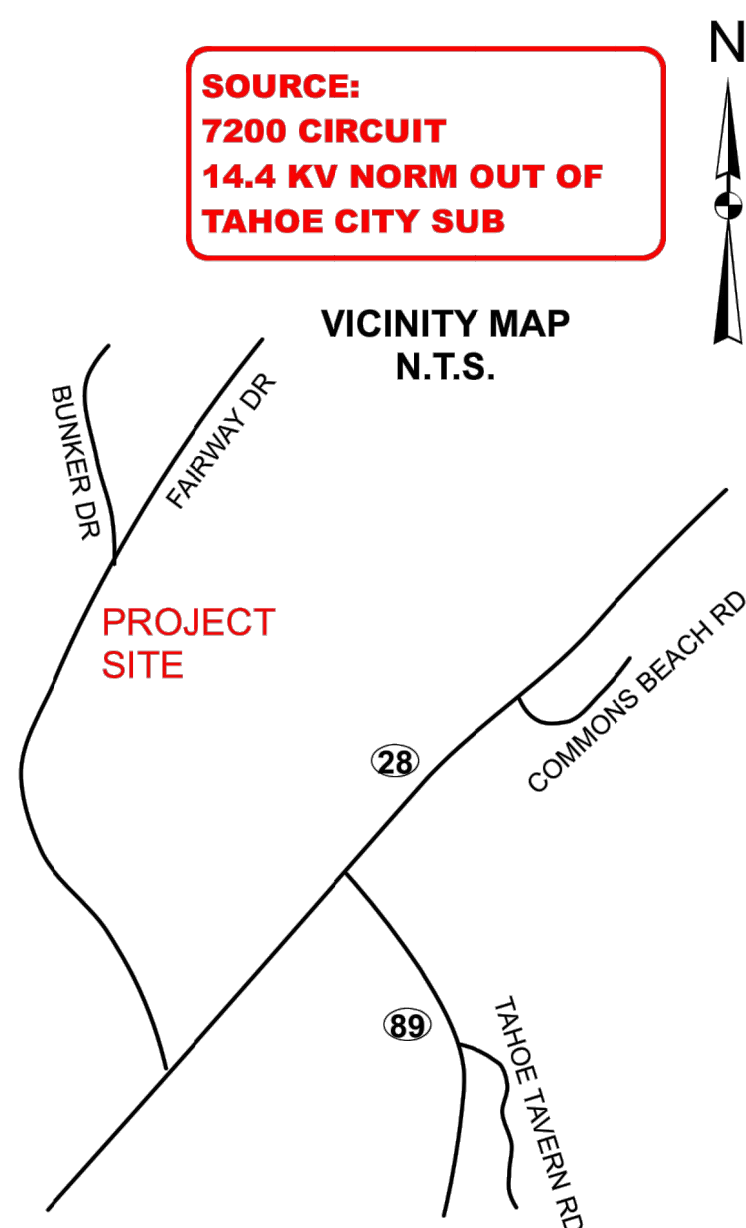
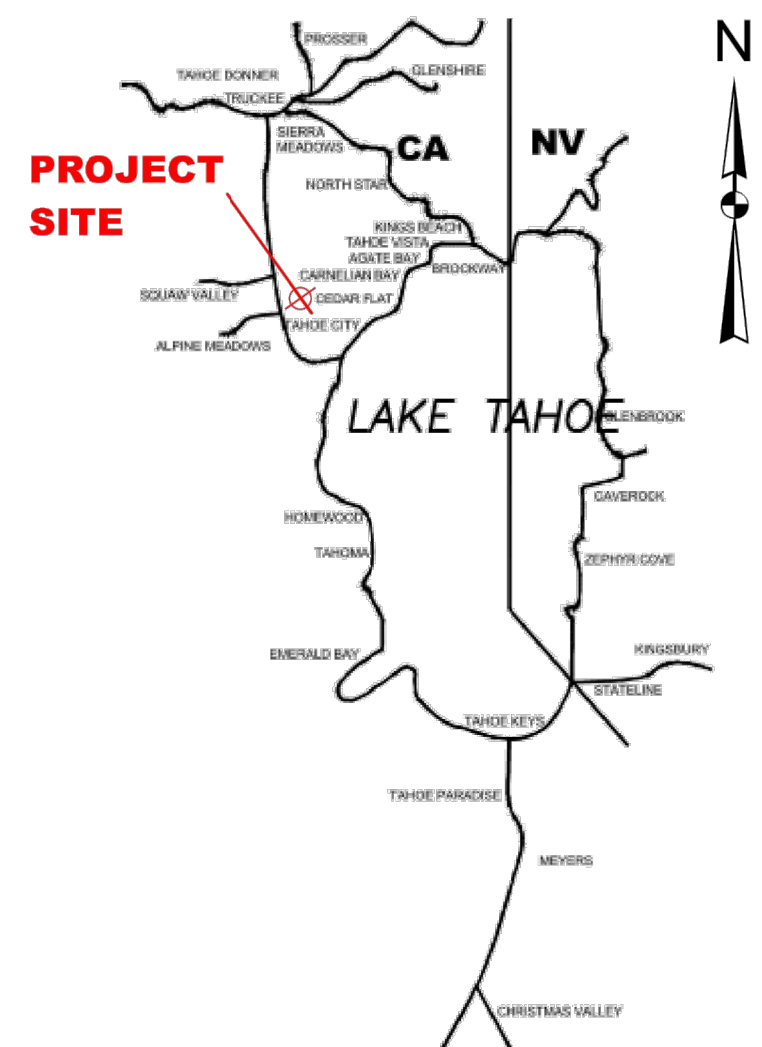
TRANSFORMER PAD
MODEL 25/167

MEETS LIBERTY UTILITIES SPECS.
DRAWING NO. PE0001 U
STOCK NO. 24-0692



CONDUIT AND SUBSTRUCTURES PLAN

SYMBOLS ARE NOT TO SCALE AND DO NOT NECESSARILY REPRESENT THE ACTUAL LOCATION OF FACILITIES

**LIBERTY UTILITIES TO FURNISH/INSTALL**

- Approx. 510 ckt. ft. of 15 kv 1 phase u/g primary conductor c/o 2-1/0 in 1c4" (conduit by applicant)

- Approx. 5 ckt. ft. of u/g service cable to 1-100 amp panel c/o 1-#2tx in 1c3" (conduit by applicant)

-One (1) 1 phase padmount loadbreak transformer, 25 kva 14.4kv, 240/120v, stk# 81-3142

APPLICANT TO FURNISH AND/OR INSTALL (INSTALLED BY HELIPAD CONTRACTOR)

-One (1) 1 phase transformer pad(s) 45.25" x 49.25" x 6" per LU std. PE0001U

-All conduits to use 3 ft radius sweeps unless otherwise noted on map or by the LU inspector, DB120 pvc gray with 1/4" polyester pull line with sequential footage markings and minimum breaking strength at 400 lbs per LU stds. CD0001U and CD0004U. Customer is responsible for mandrilling conduit. Sweeps are not to be cut. Pull line shall extend a min of 3 ft from the conduit end at the service panel and 5 ft min from the conduit at the secondary box

-All trenching and backfill per applicable LU stds. TE0001U, TE0003U, TE0005U, TE0020U and SUB01X.
Backfill per LU std RU0005U

-All staking requirements per LU std. GI0001U and GI0002U which includes trench centerline, pad, vault/junction enclosure and secondary box locations and grade. This is to ensure that the placement of all LU facilities are within all necessary easements.

-All street cut permits, pavement cutting and replacement as required

-8' x 5/8" ground rods at transformer, switch, vault, junction enclosure and riser pole locations

-Applicant to stub service conduits 10 ft from transformer pads and 5 ft from secondary boxes at time of pad and box installation

GENERAL COMMENTS

-Meter panels 400 amps and larger must be approved by LU. All metering must meet LU requirements per applicable LU stds. GM0001M, MC0001M, SB0001M and GI0004U

-Transformer barrier posts may be required per LU std. PE0009U

-Transformer retaining wall may be required for any slopes greater than 15% per LU std. TE0040U

-All secondary boxes and/or primary vaults shall be set 2" above finished grade per LU std. RU0005U

-Two (2) compaction tests required on all pads per LU std. SUB01X

-All material shall be on the job site prior to the start of any work done by LU.