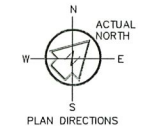
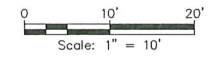
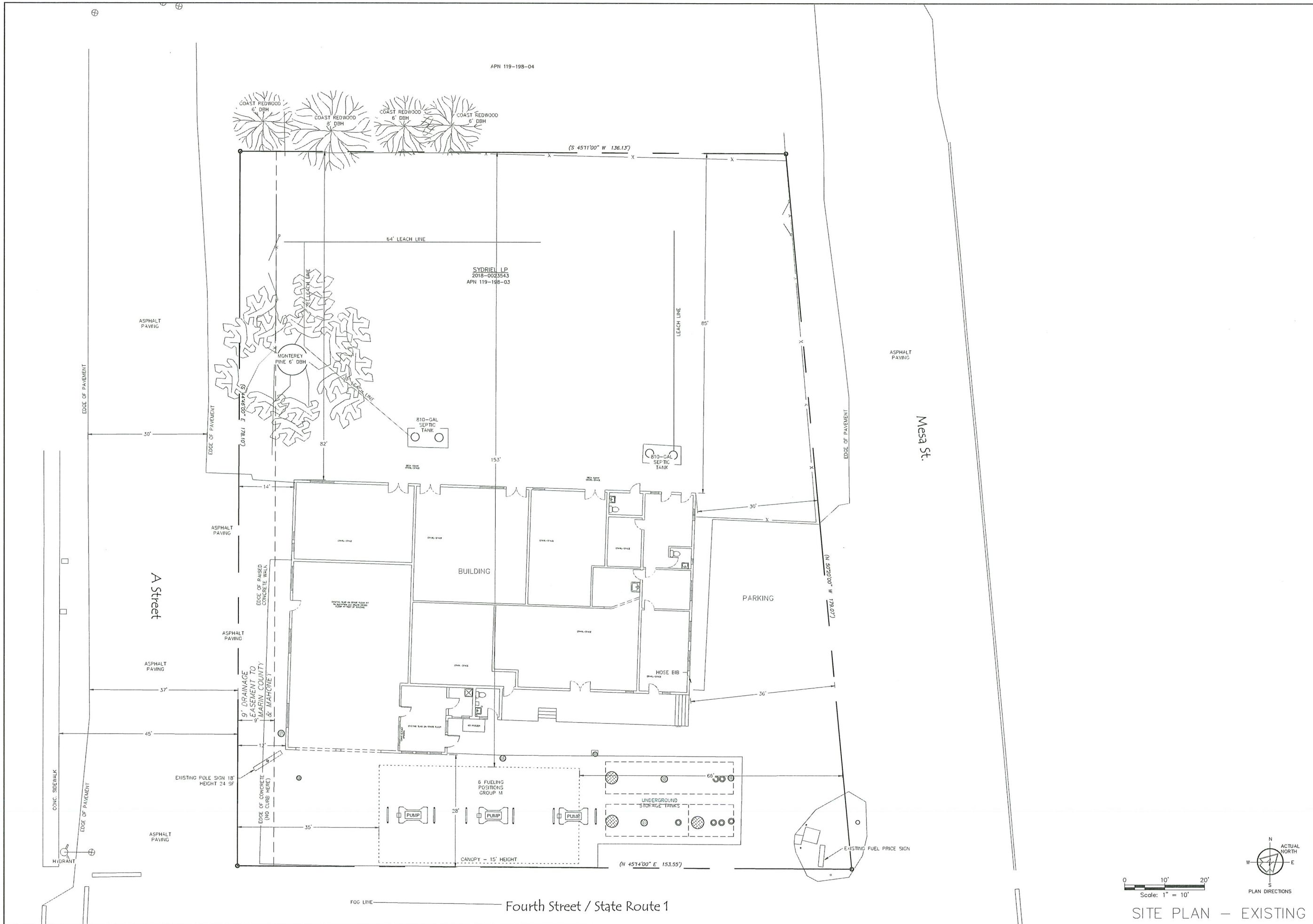


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SITE PLAN - EXISTING

NO.	DATE	DESCRIPTION

APPROVED BY:

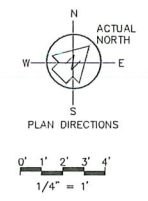
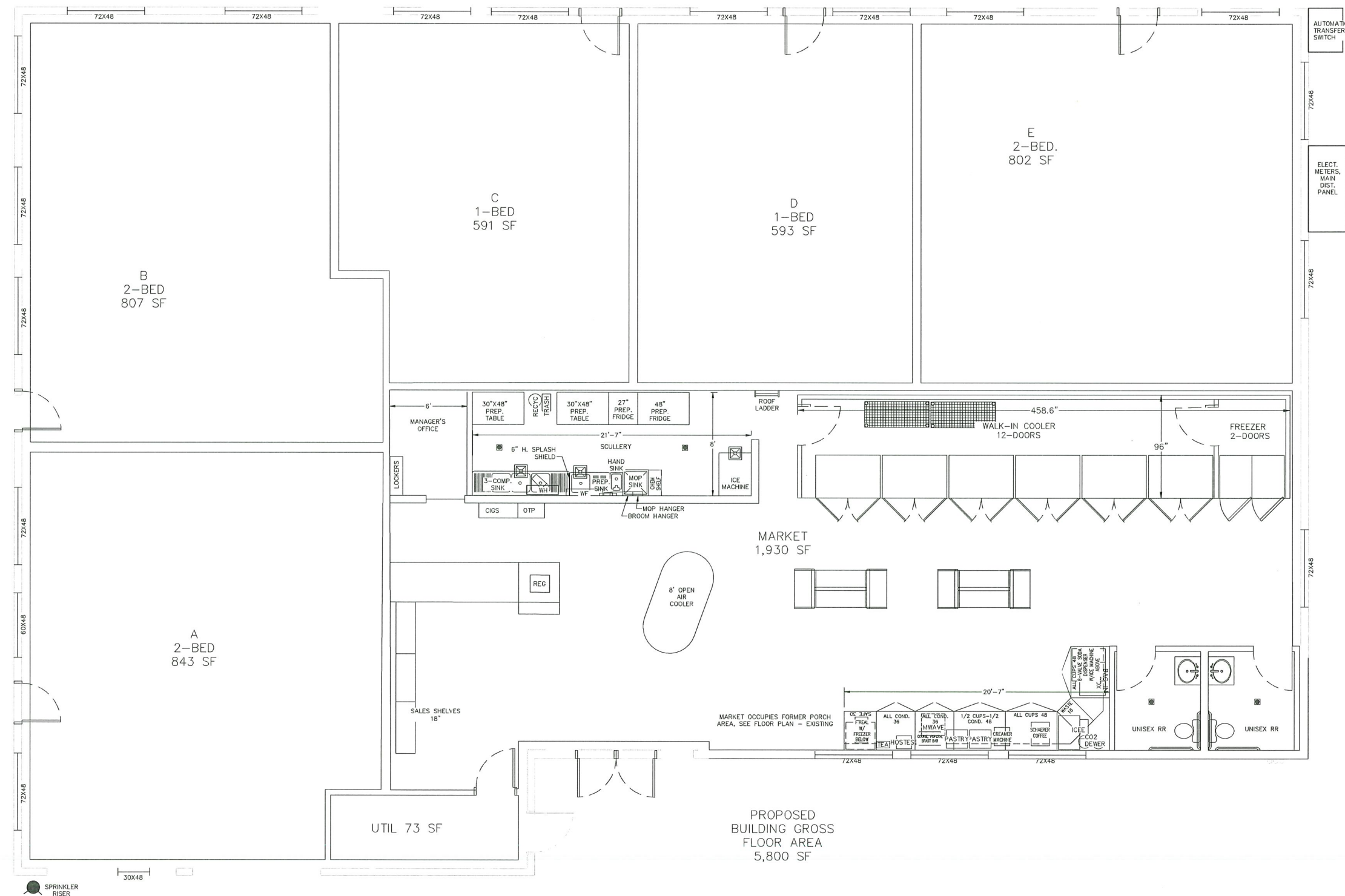
MATTHEW E. DONOHUE
R.C.E. 057219
mdonohue@transtechconsultants.com

TRANS TECH CONSULTANTS

930 SHILOH RD., BLDG 44, SUITE J
WINDSOR, CA 95492
PHONE: 707-837-8408 FAX: 707-837-7334

COASTAL PERMIT AND USE PERMIT
POINT REYES STATION
11401 STATE ROUTE 1, POINT REYES STATION, CA 94956
APN: 119-198-03

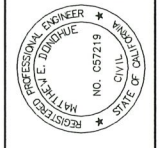
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DRAWN: MED
JOB#: 2823.01
SHEET
1



PROPOSED BUILDING GROSS FLOOR AREA 5,800 SF

NO.	DATE	DESCRIPTION

APPROVED BY:
 MATTHEW E. DONOHUE
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 mdonohue@transtechconsultants.com



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 APN: 119-198-03

DATE: 11/16/2023
 DRAWN: MED
 JOB#: 2823.01

SHEET
 4

FLOOR PLAN - MARKET

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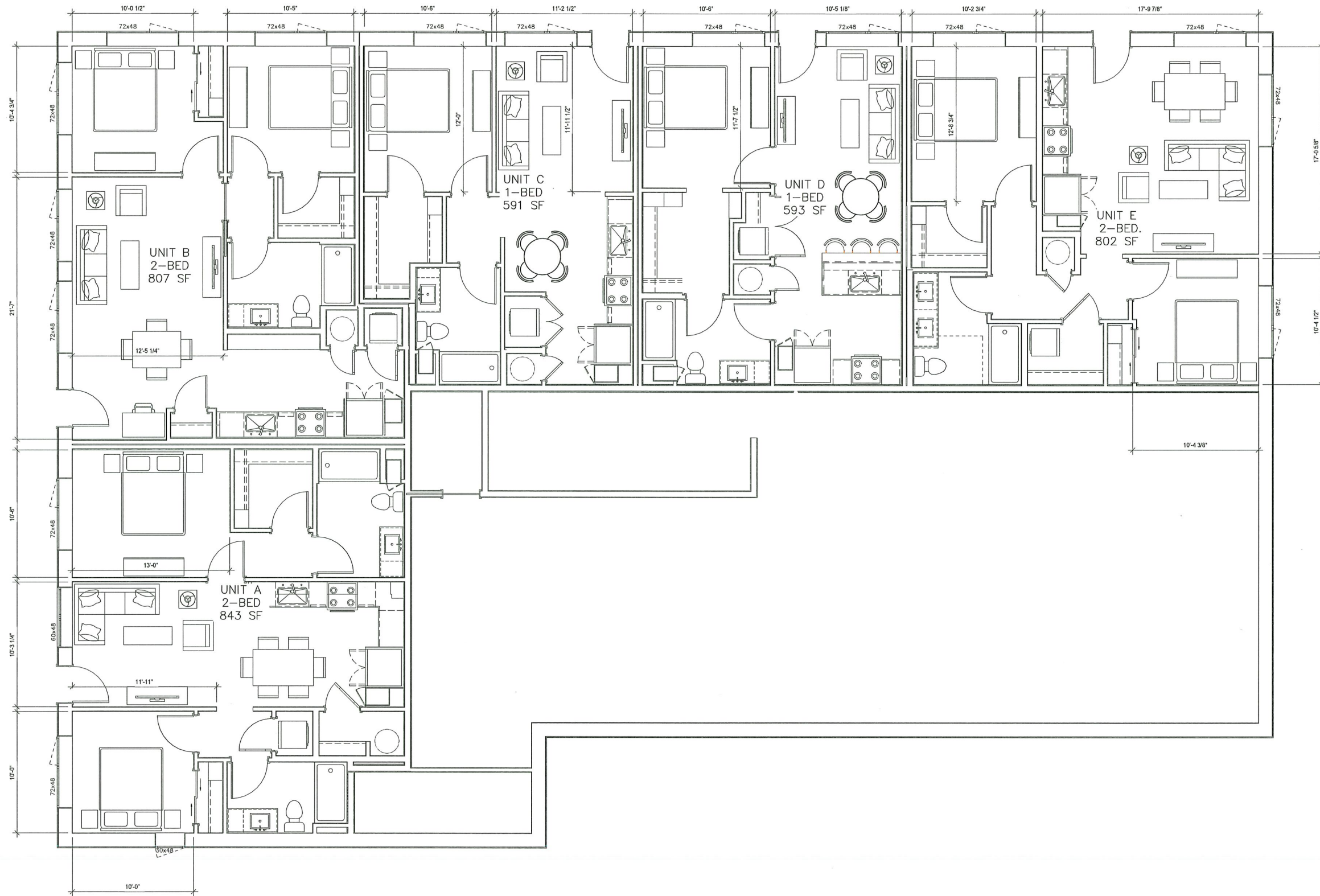
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REV	ISSUE	DATE

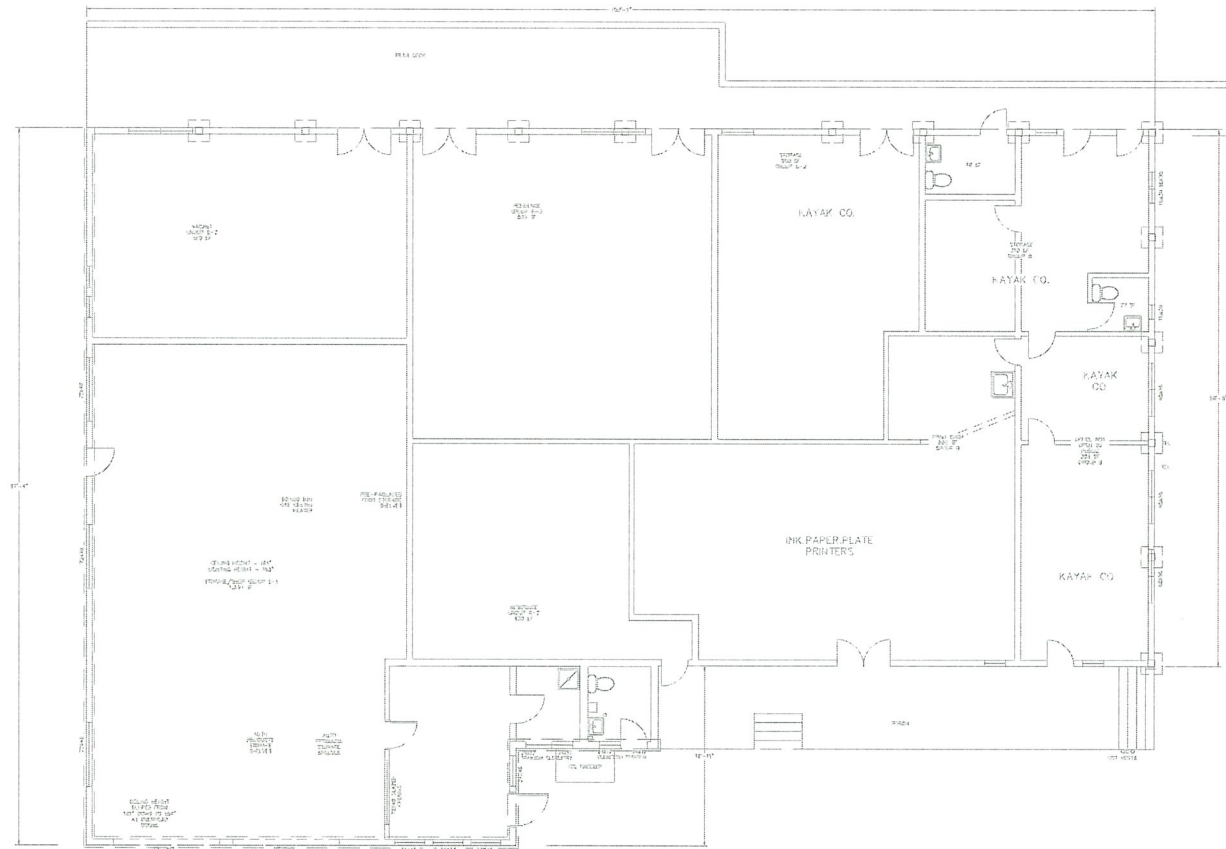
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APPEARING HEREIN CONSTITUTE ORIGINAL
AND UNPUBLISHED WORK OF THE
ARCHITECT AND MAY NOT BE DUPLICATED,
USED OR DISCLOSED WITHOUT THE
WRITTEN CONSENT OF THE ARCHITECT.

**FLOOR PLAN -
DWELLING UNITS**

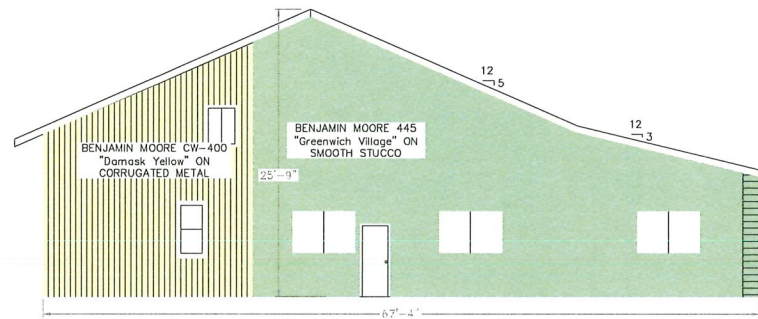
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5,850 SQUARE FEET
GROSS FLOOR AREA

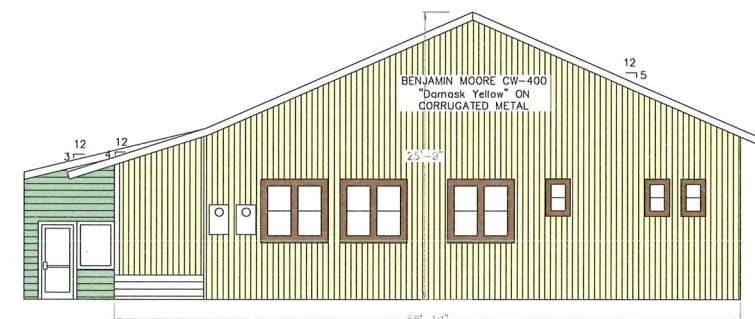


WEST ELEVATION

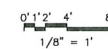


SOUTH ELEVATION

BENJAMIN MOORE CW-400
"Damask Yellow" ON
CORRUGATED METAL



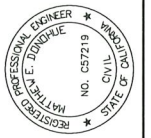
EAST ELEVATION



ELEVATIONS-EXISTING

NO.	DATE	DESCRIPTION	BY

APPROVED BY:
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COASTAL PERMIT AND USE PERMIT
 POINT REYES STATION
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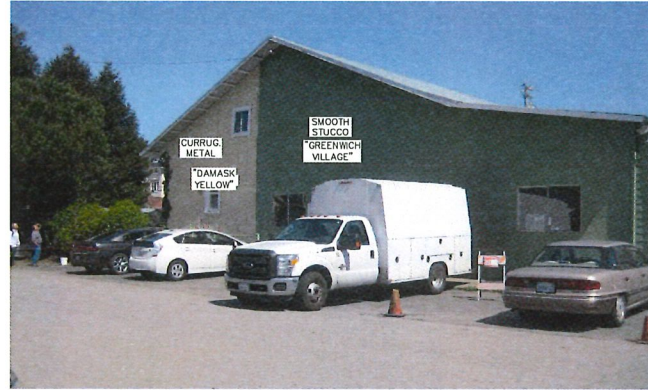
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DRAWN: MED

JOB#: 2823.01

SHEET

6



WEST ELEVATION



SOUTH (FRONT) ELEVATION



EAST ELEVATION

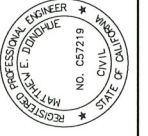


ELEVATIONS TO MATCH EXISTING COLORS AND MATERIALS.

COLORS AND MATERIALS

NO.	DATE	DESCRIPTION	BY

APPROVED BY:
 MATTHEW E. DONOHUE
 R.C.E. C57219
 monohue@transtechconsultants.com



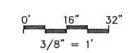
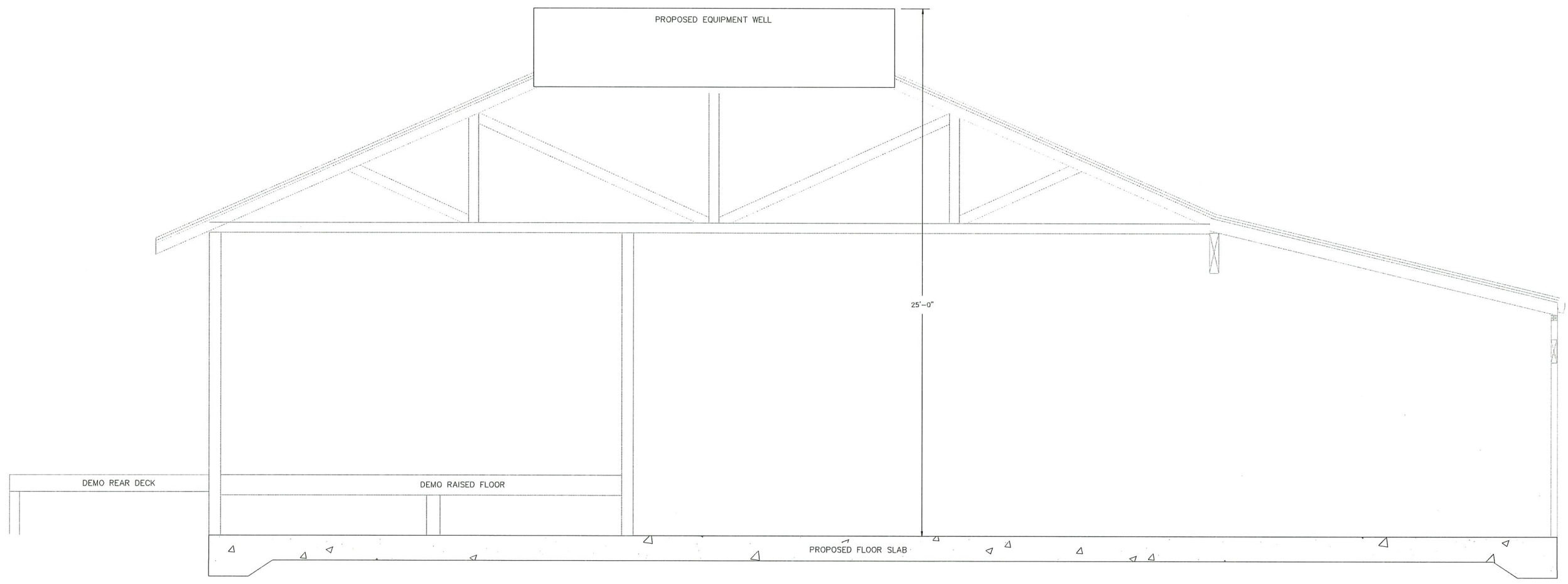
TRANS TECH CONSULTANTS
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BUILDING CROSS SECTION (LATERAL)

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 mdonohue@transtechconsultants.com



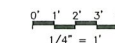
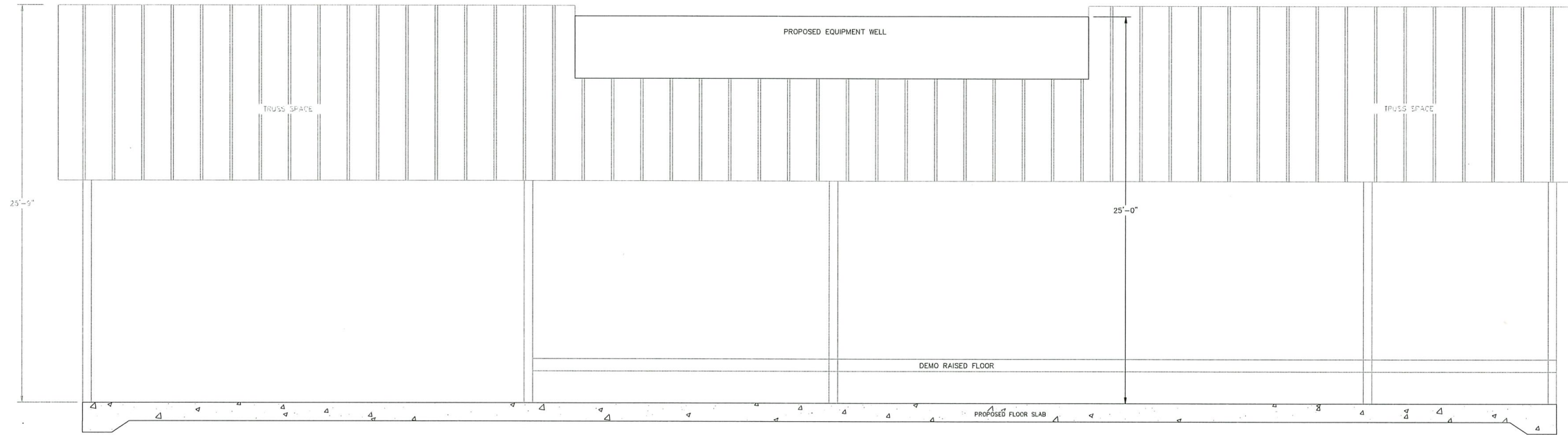
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 APN: 119-198-03

DATE: 11/16/2023
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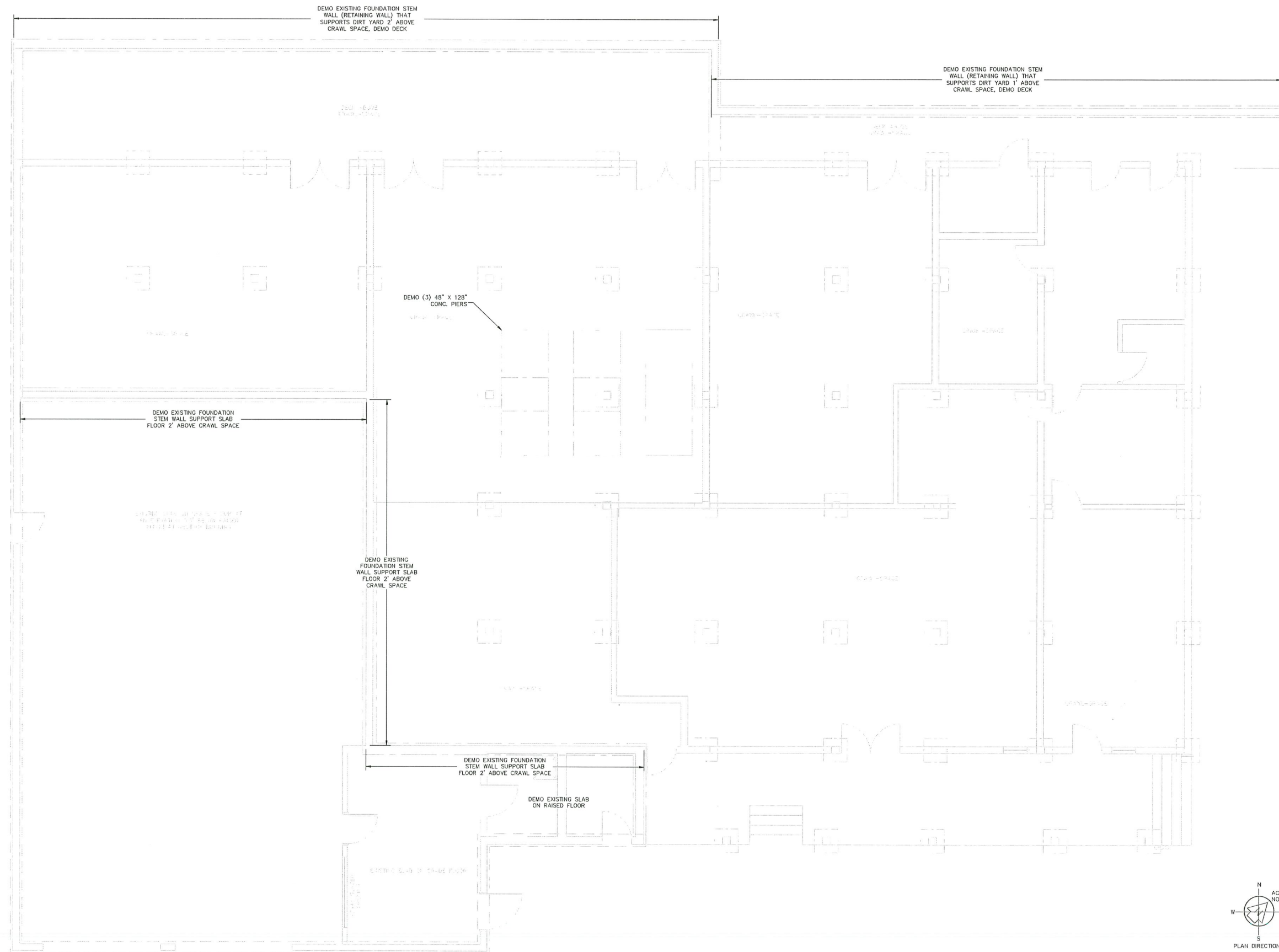
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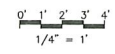


BUILDING CROSS SECTION (LONGITUDINAL)

COASTAL PERMIT AND USE PERMIT POINT REYES STATION 11401 STATE ROUTE 1, POINT REYES STATION, CA 94956 APN: 119-198-03		DATE: 11/16/2023	REVISIONS	BY
TRANS TECH CONSULTANTS 930 SHILOH RD., BLDG 44, SUITE J WINDSOR, CA 95492 PHONE: 707-837-8408 FAX: 707-837-7334		DRAWN: MED		
APPROVED BY: MATTHEW E. DONOHUE R.C.E. C57219 mdonohue@transtechconsultants.com		JOB#: 2823.01		
		SHEET		
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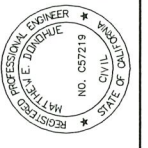
LEGEND
 --- DEMO FOUNDATION
 - - - PRESERVE FOUNDATION



FOUNDATION DEMO PLAN

NO.	DATE	DESCRIPTION	BY

APPROVED BY:
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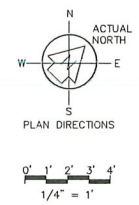
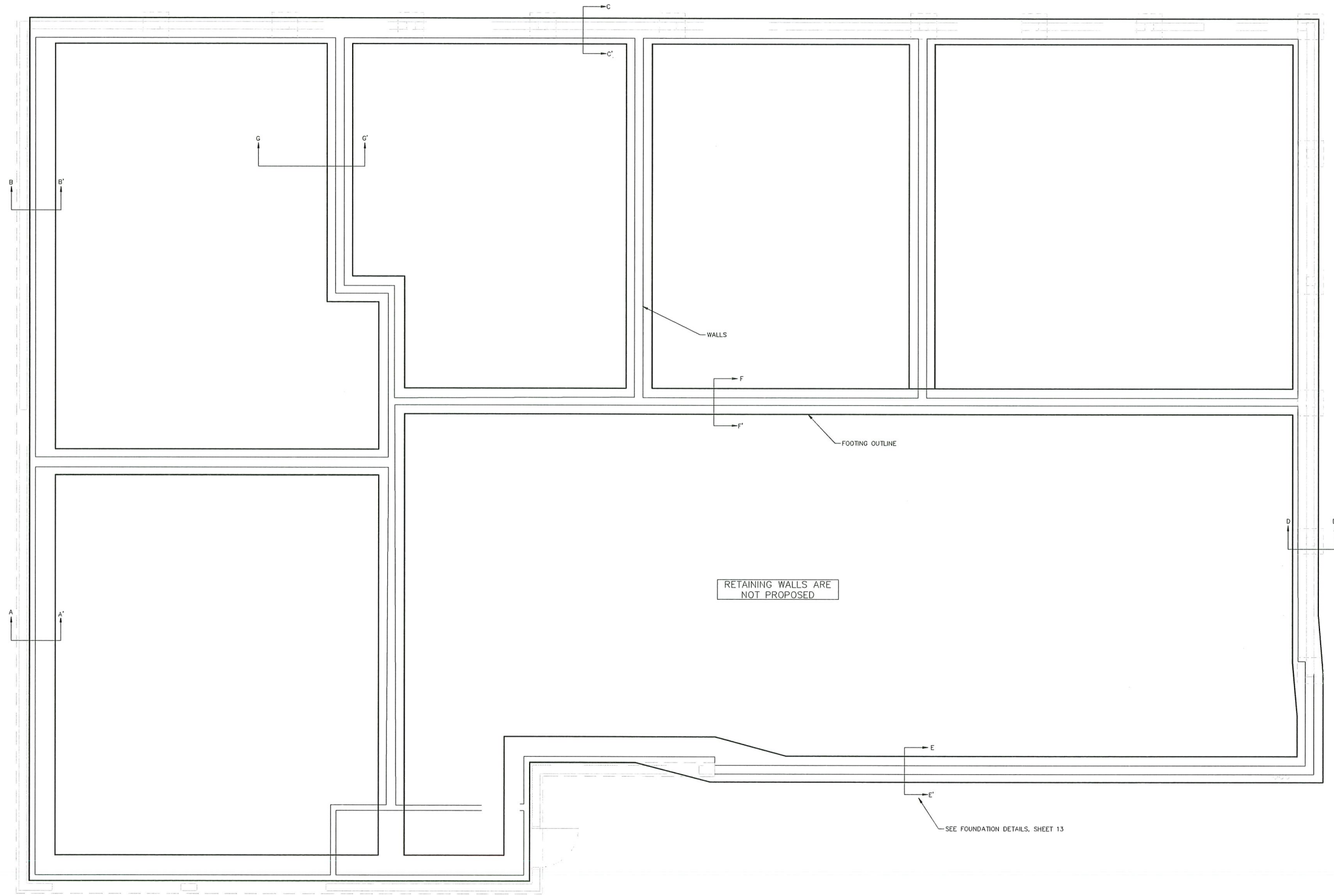
COASTAL PERMIT AND USE PERMIT
 POINT REYES STATION
 11401 STATE ROUTE 1, POINT REYES STATION, CA 94956
 APN: 119-198-03

DATE: 11/16/2023
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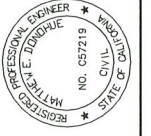
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FOUNDATION PLAN

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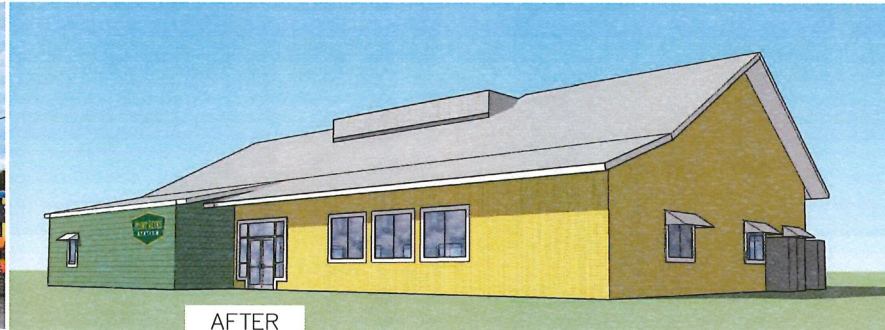
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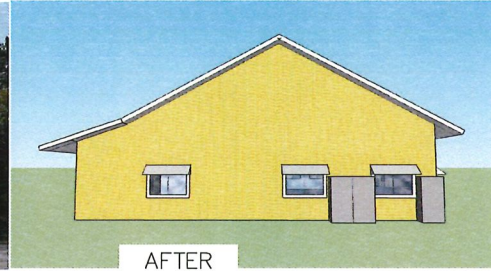
BEFORE
VIEW OF PORCH FROM HWY. 1, (SOUTHEAST ELEV.)



AFTER



BEFORE
VIEW OF PORCH FROM MESA ST. (EAST ELEV.)



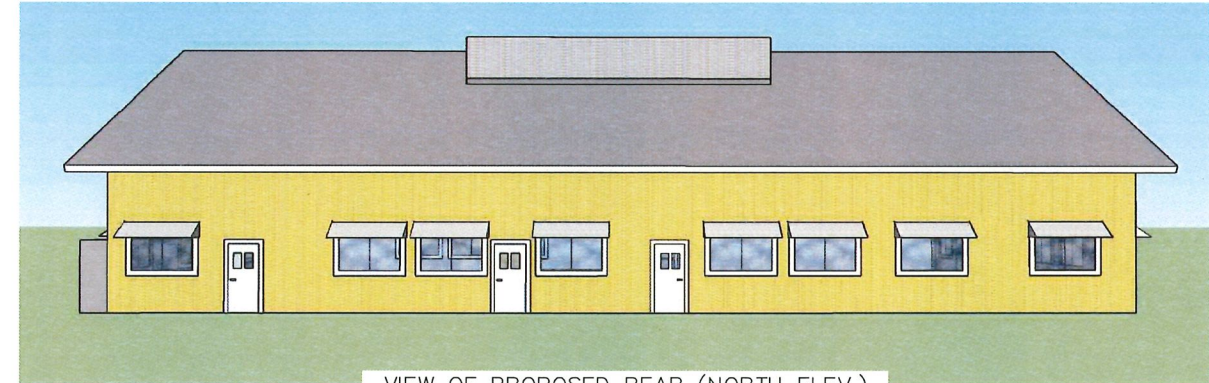
AFTER



BEFORE
VIEW OF REAR FROM MESA ST. (NORTHEAST ELEV.)



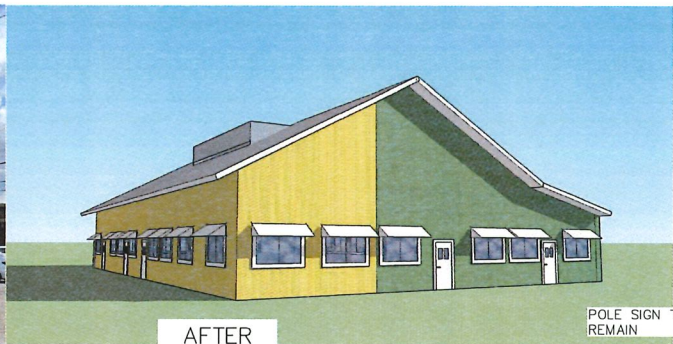
AFTER



VIEW OF PROPOSED REAR (NORTH ELEV.)



BEFORE
VIEW FROM A ST. (NORTHWEST ELEV.)



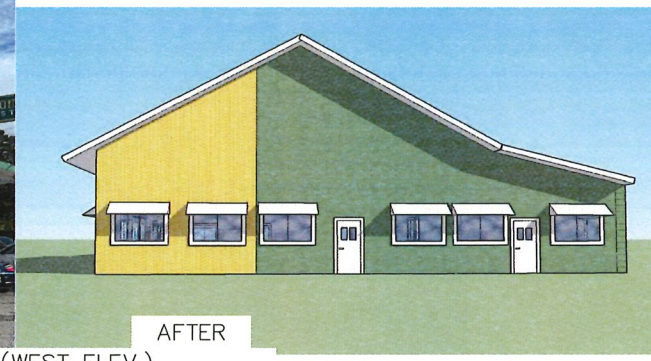
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POLE SIGN TO REMAIN



BEFORE

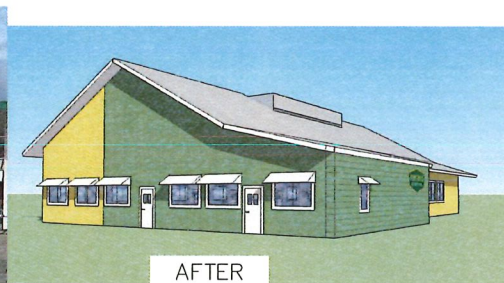
VIEW FROM A ST. (WEST ELEV.)



AFTER



BEFORE
VIEW FROM A ST. (SOUTHWEST ELEV.)

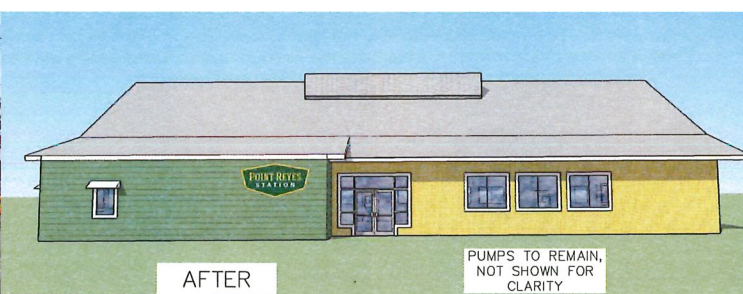


AFTER



BEFORE

VIEW FROM HWY.1 (SOUTH ELEV.)

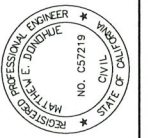


AFTER

PUMPS TO REMAIN,
NOT SHOWN FOR
CLARITY

NO.	DATE	DESCRIPTION	BY

APPROVED BY:
 MATTHEW E. DONOHUE
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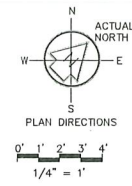
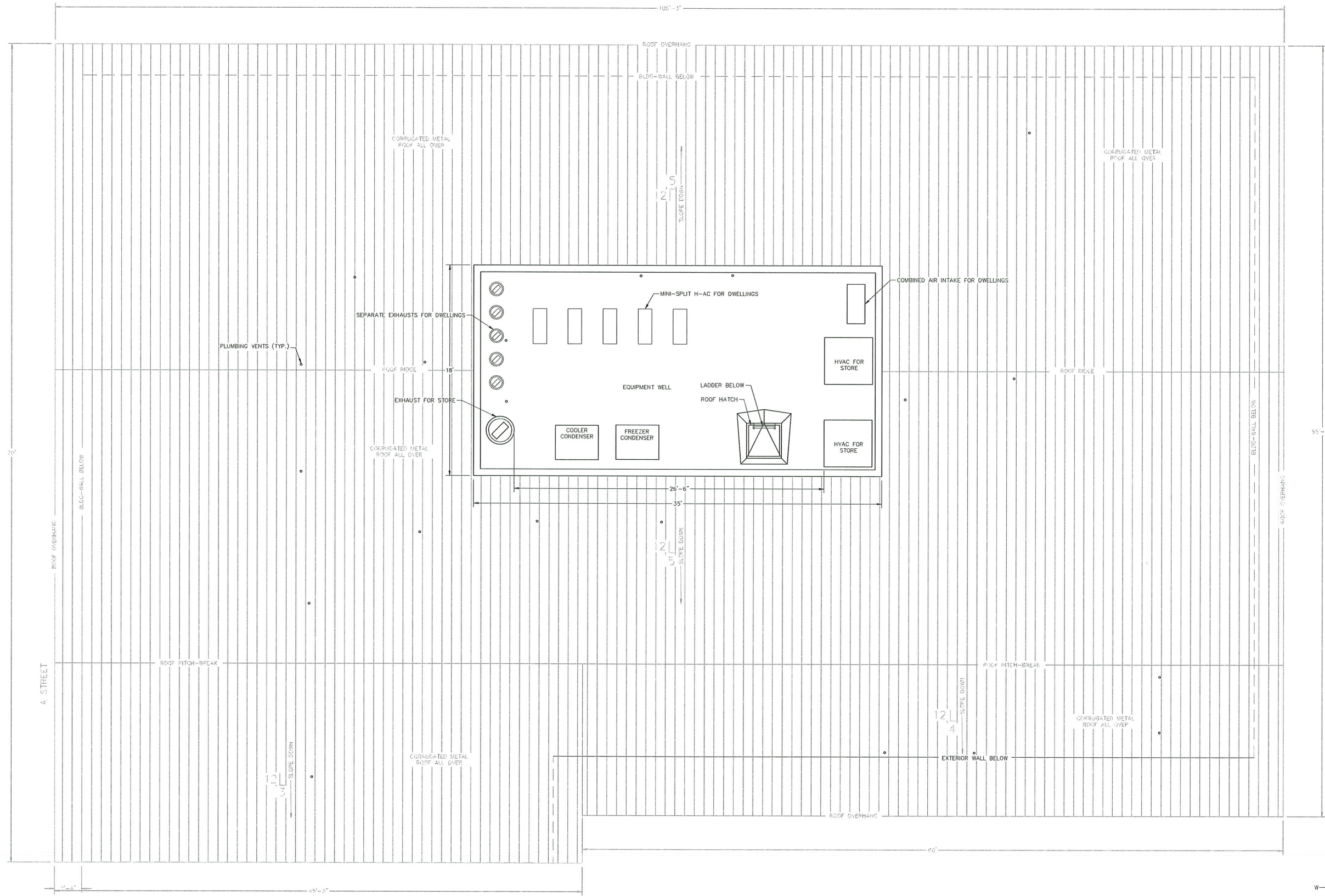
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 POINT REYES STATION
 11401 STATE ROUTE 1, POINT REYES STATION, CA 94956
 APN: 119-198-03

DATE: 11/16/2023
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SHEET
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 mdonohue@transtechconsultants.com



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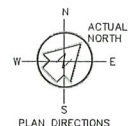
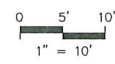
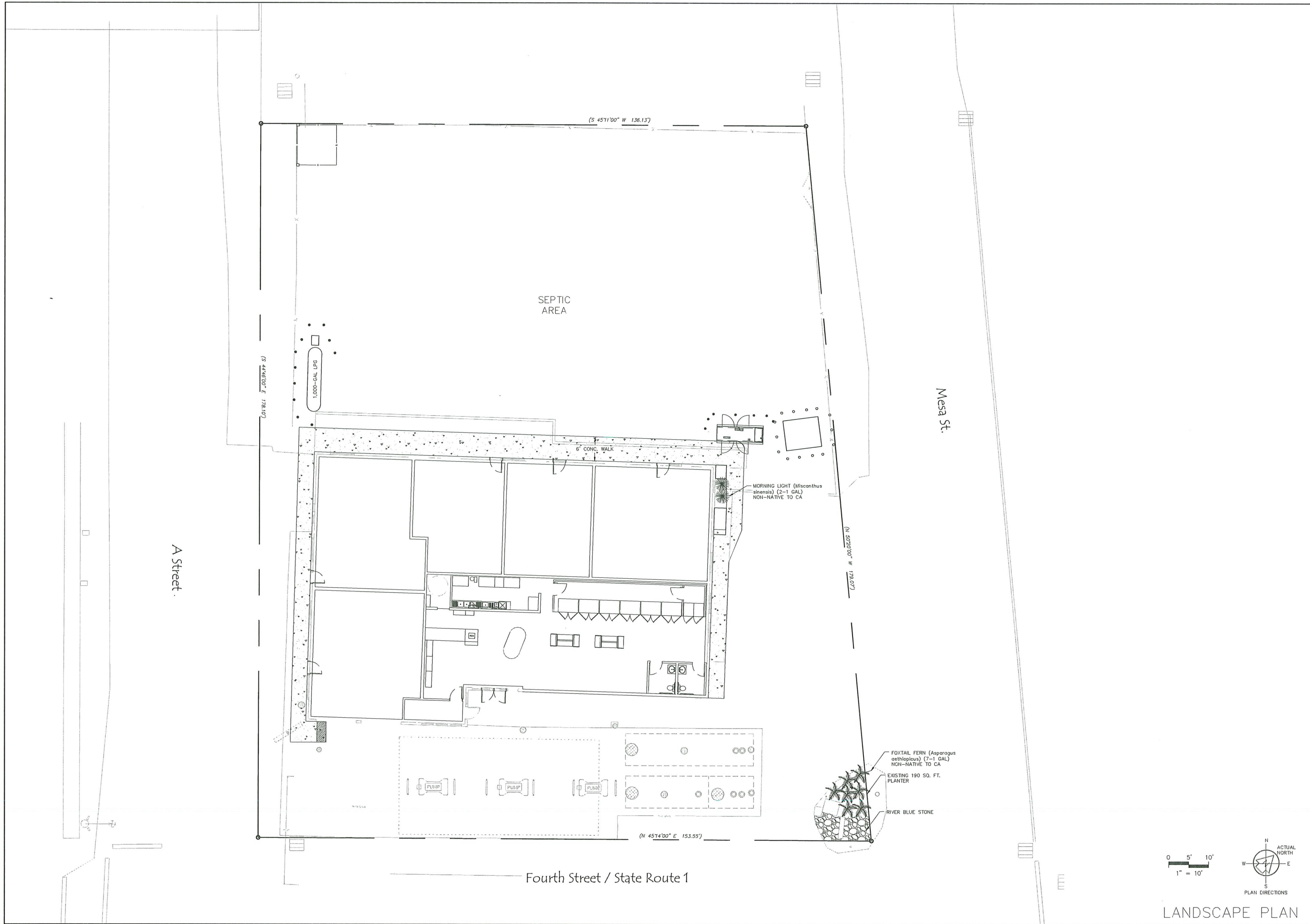
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 11401 STATE ROUTE 1, POINT REYES STATION, CA 94956
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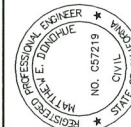
ROOF PLAN - PROPOSED

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11/17/2023 12:12:14 PM



LANDSCAPE PLAN

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 mdonohue@transtechconsultants.com

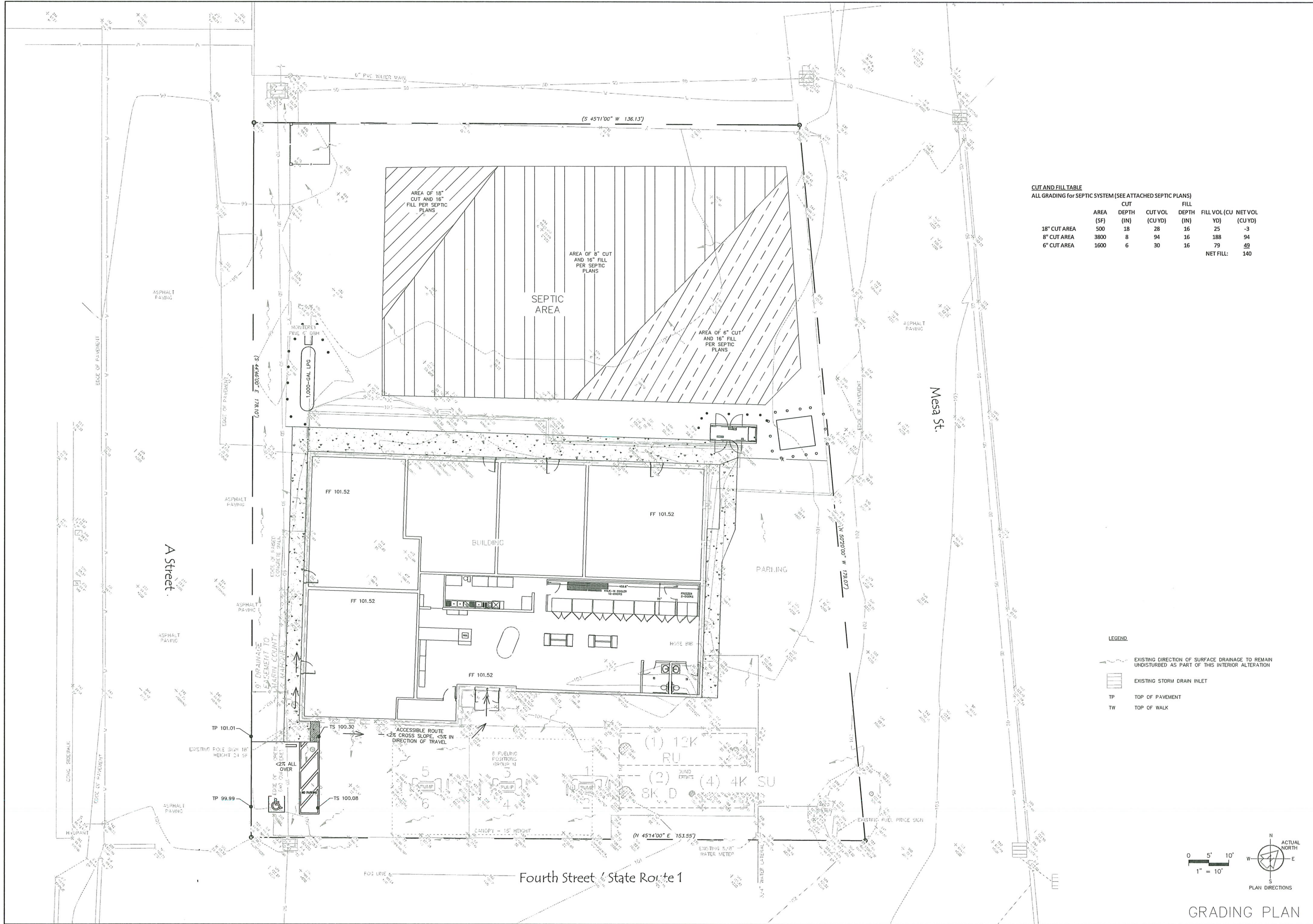
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DATE: 11/16/2023
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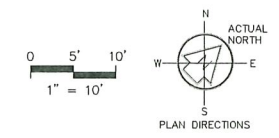
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CUT AND FILL TABLE
ALL GRADING FOR SEPTIC SYSTEM (SEE ATTACHED SEPTIC PLANS)

	AREA (SF)	CUT DEPTH (IN)	CUT VOL (CU YD)	FILL DEPTH (IN)	FILL VOL (CU YD)	NET VOL (CU YD)
18" CUT AREA	500	18	28	16	25	-3
8" CUT AREA	3800	8	94	16	188	94
6" CUT AREA	1600	6	30	16	79	49
					NET FILL:	140

- LEGEND**
- EXISTING DIRECTION OF SURFACE DRAINAGE TO REMAIN UNDISTURBED AS PART OF THIS INTERIOR ALTERATION
 - EXISTING STORM DRAIN INLET
 - TP TOP OF PAVEMENT
 - TW TOP OF WALK



GRADING PLAN

REVISIONS

NO.	DATE	DESCRIPTION	BY
MED			

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 mdonohue@transstechconsultants.com

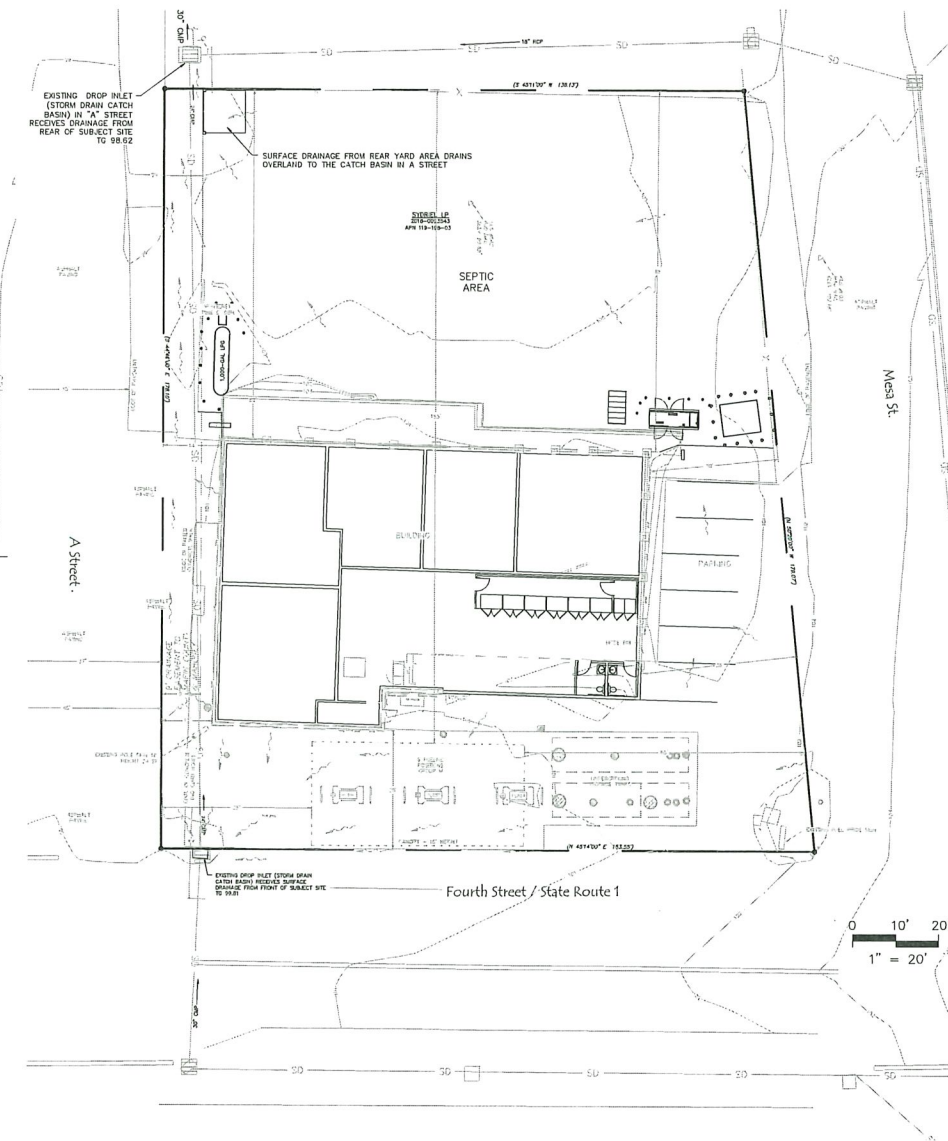
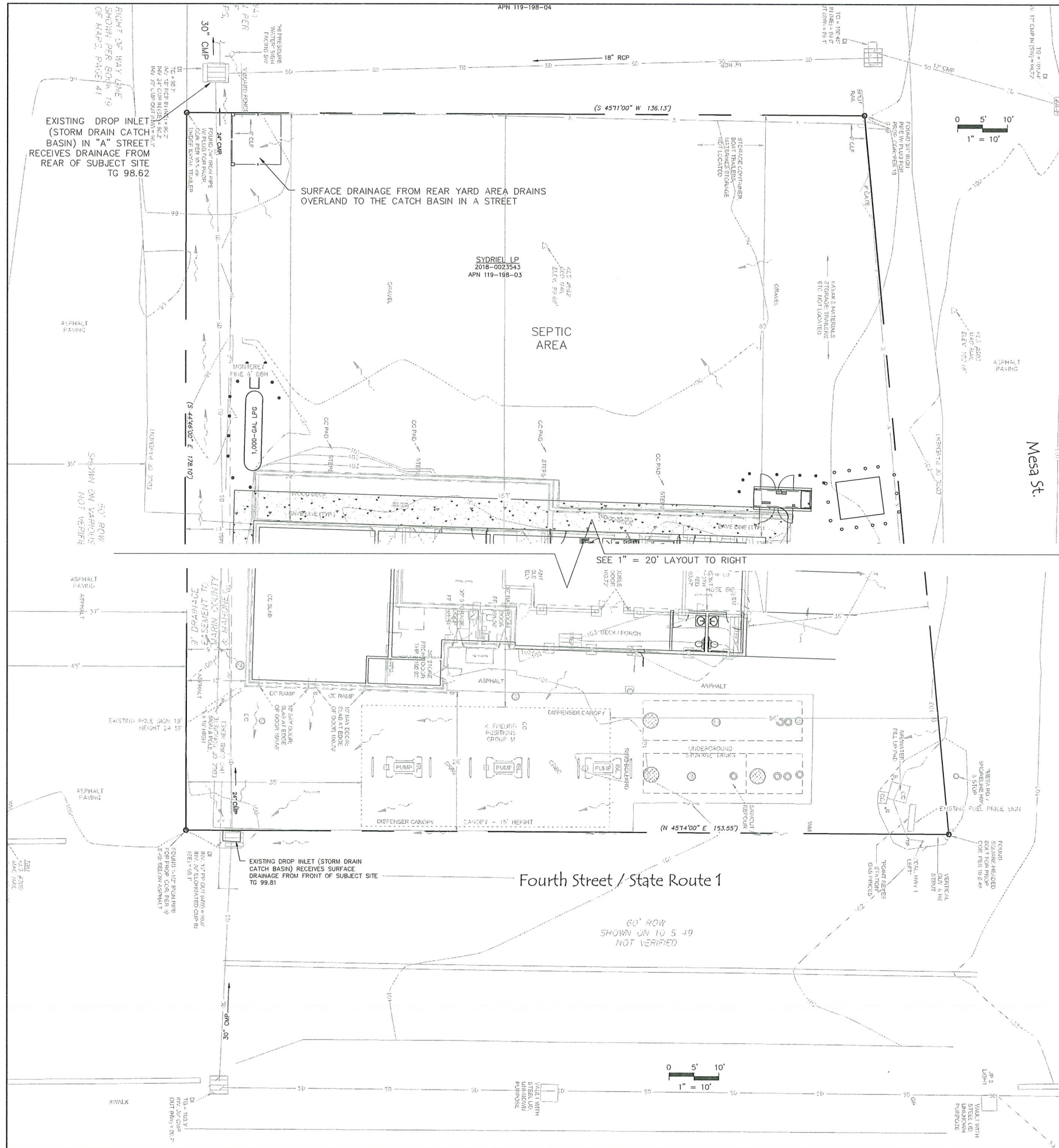
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 WINDSOR, CA 95492
 PHONE: 707-837-8408 FAX: 707-837-7334

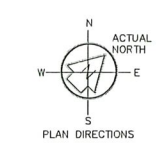
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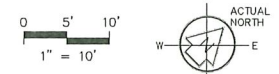
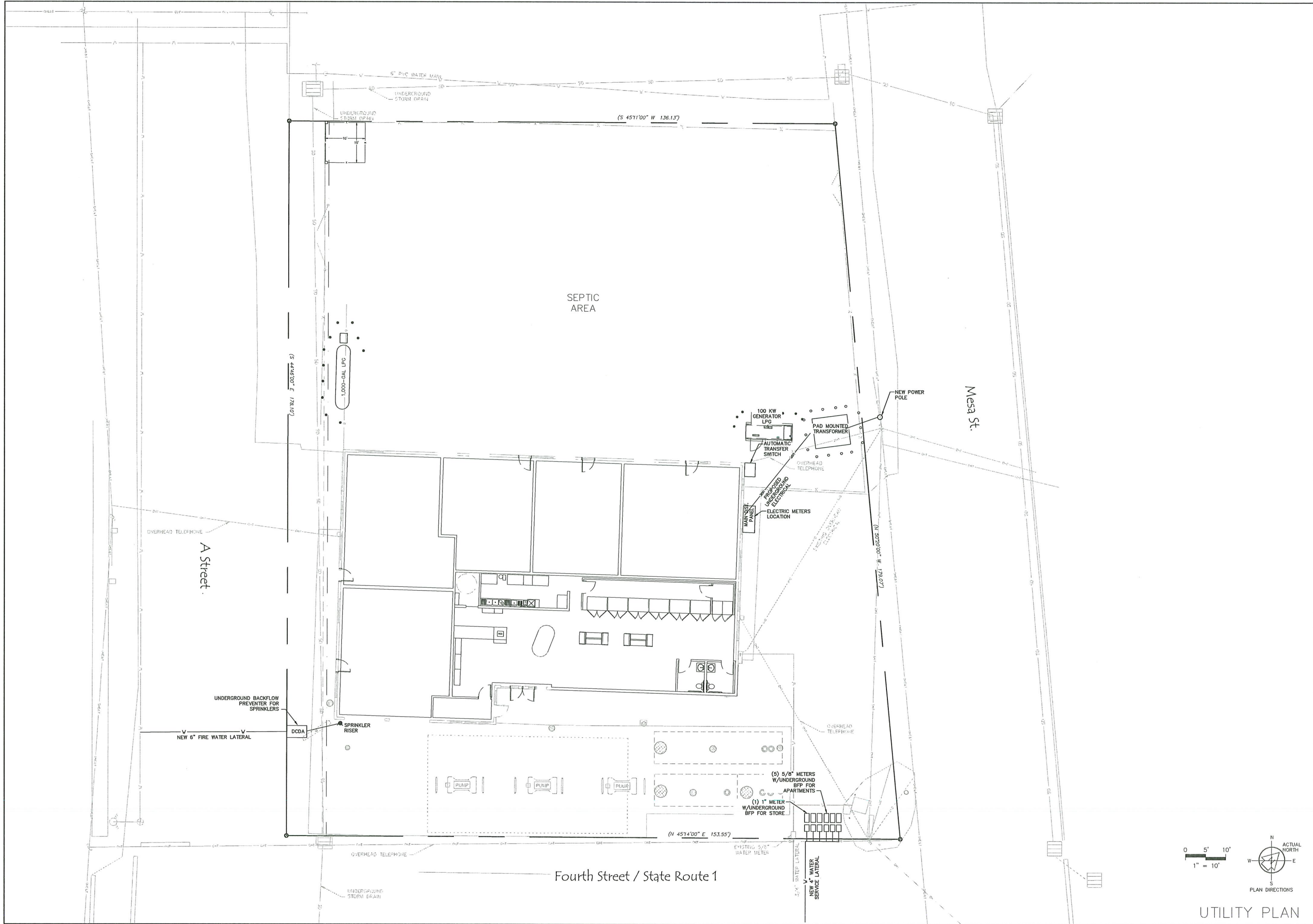
- LEGEND**
- > EXISTING DIRECTION OF SURFACE DRAINAGE TO REMAIN UNDISTURBED AS PART OF THIS INTERIOR ALTERATION
 - > UNDERGROUND DRAIN PIPE DIRECTION OF FLOW
 - ▭ STORM DRAIN INLET



DRAINAGE PLAN

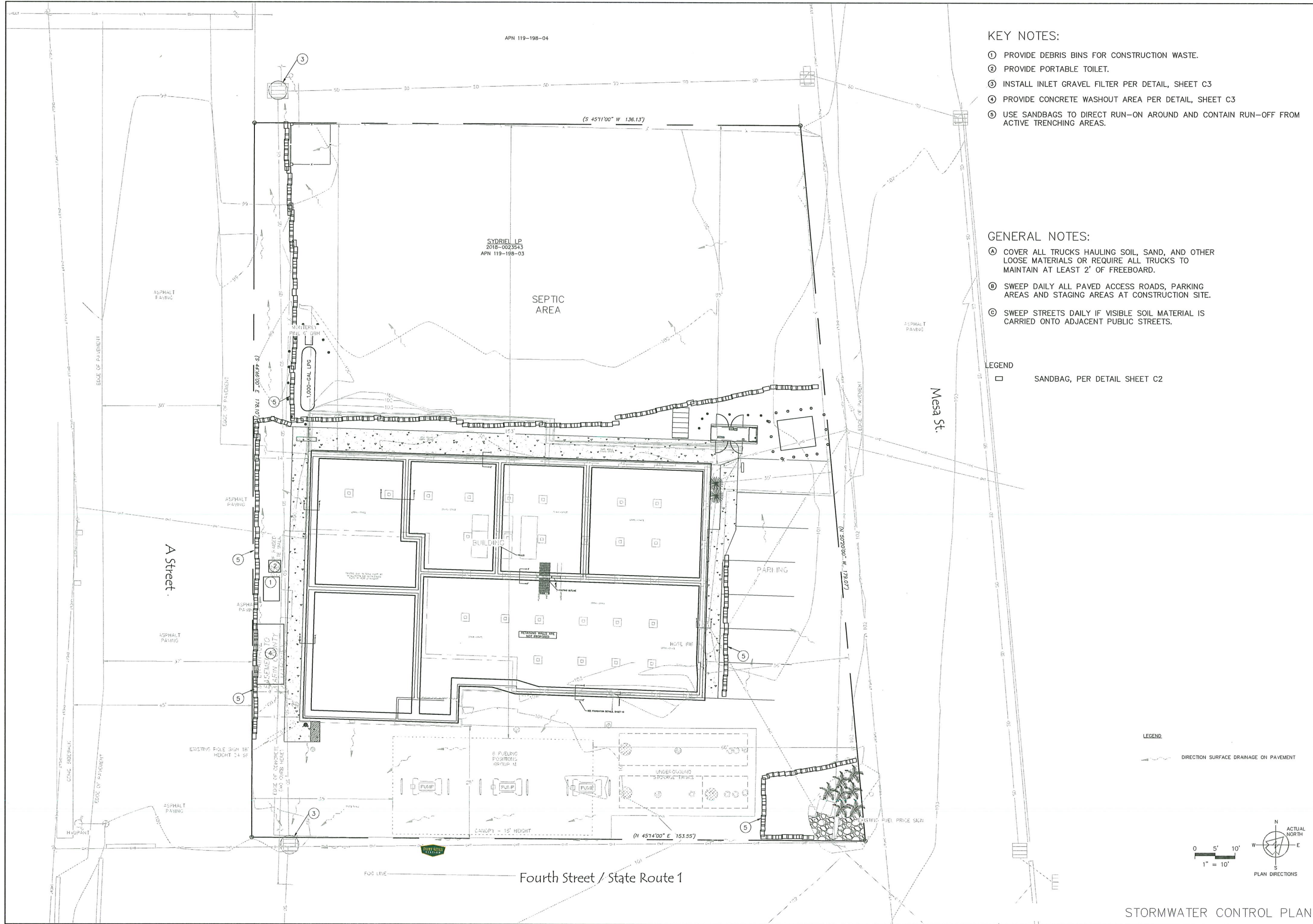
<p>APPROVED BY:</p> <p>REGISTERED PROFESSIONAL ENGINEER MATTHEW E. DONOHUE NO. 057219 CIVIL STATE OF CALIFORNIA</p> <p>APPROVED BY: MATTHEW E. DONOHUE R.C.E. 057219 mdonohue@transstechconsultants.com</p>																
<p>COASTAL PERMIT AND USE PERMIT POINT REYES STATION 11401 STATE ROUTE 1, POINT REYES STATION, CA 94956 APN: 119-198-03</p>																
<p>DATE: 11/16/2023 DRAWN: MED JOB#: 2823.01</p>																
<p>SHEET C-2</p>																
<p>REVISIONS</p> <table border="1"> <tr> <th>NO.</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </table>	NO.	DATE	DESCRIPTION													<p>BY</p>
NO.	DATE	DESCRIPTION														

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UTILITY PLAN

COASTAL PERMIT AND USE PERMIT POINT REYES STATION 11401 STATE ROUTE 1, POINT REYES STATION, CA 94956 APN: 119-198-03		DATE: 11/16/2023																					
TRANS TECH CONSULTANTS 930 SHILOH RD., BLDG 44, SUITE J WINDSOR, CA 95492 PHONE: 707-837-8408 FAX: 707-837-7334		DRAWN: MED																					
APPROVED BY: MATTHEW E. DONOHUE R.C.E. C57219 mrdonohue@transtechconsultants.com		JOB#: 2823.01																					
		SHEET																					
<table border="1"> <thead> <tr> <th>NO.</th> <th>DATE</th> <th>DESCRIPTION</th> <th>BY</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>		NO.	DATE	DESCRIPTION	BY																	C-3	
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KEY NOTES:

- ① PROVIDE DEBRIS BINS FOR CONSTRUCTION WASTE.
- ② PROVIDE PORTABLE TOILET.
- ③ INSTALL INLET GRAVEL FILTER PER DETAIL, SHEET C3
- ④ PROVIDE CONCRETE WASHOUT AREA PER DETAIL, SHEET C3
- ⑤ USE SANDBAGS TO DIRECT RUN-ON AROUND AND CONTAIN RUN-OFF FROM ACTIVE TRENCHING AREAS.

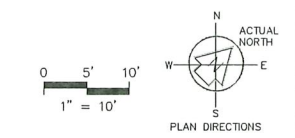
GENERAL NOTES:

- Ⓐ COVER ALL TRUCKS HAULING SOIL, SAND, AND OTHER LOOSE MATERIALS OR REQUIRE ALL TRUCKS TO MAINTAIN AT LEAST 2' OF FREEBOARD.
- Ⓑ SWEEP DAILY ALL PAVED ACCESS ROADS, PARKING AREAS AND STAGING AREAS AT CONSTRUCTION SITE.
- Ⓒ SWEEP STREETS DAILY IF VISIBLE SOIL MATERIAL IS CARRIED ONTO ADJACENT PUBLIC STREETS.

LEGEND

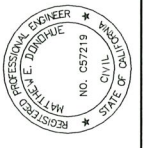
□ SANDBAG, PER DETAIL SHEET C2

LEGEND
 DIRECTION SURFACE DRAINAGE ON PAVEMENT



NO.	DATE	DESCRIPTION	BY

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 mdonohue@transtechconsultants.com



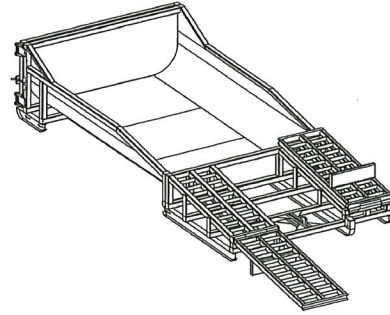
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PORTABLE CONCRETE WASHOUT CONTAINER



CONCRETE WASHOUT SYSTEMS
 PO Box 2604
 Carmichael, CA. 95609
 Phone: 1.877.292.7488
 Fax: 1.916.244.0403
 Info@concretewashout.com
 www.concretewashout.com
 Patent Pending

DESCRIPTION

A portable, self-contained and watertight container affixed with ramps that controls, captures and contains caustic concrete wastewater and washout material.

PURPOSE & OBJECTIVE

Allows trade personnel to easily washout concrete trucks, pumps and other equipment associated with cement on site and allows easy off site recycling of the same concrete materials and wastewater.

APPLICATION

Construction projects where concrete, stucco, mortar, grout and cement are used as a construction material or where cementitious wastewater is created.

MAINTENANCE

Inspect and clean out when ¾ full, not allowing the container to overflow.
 Inspect wastewater level and request a vacuum if needed.
 Inspect subcontractors to ensure that proper housekeeping measures are employed when washing out equipment.

SPECIFICATIONS

The container must be portable and temporary, watertight, equipped with ramps and have a holding capacity to accept washout from approximately 350 yards of poured concrete. A vacuum service must accompany washout container and be used by site superintendent as needed. A rampless container may be used in conjunction with a ramped container or by itself if a concrete pump is not needed. The washwater must be disposed of or treated and recycled in an environmentally safe manner and in accordance with federal, state or local regulatory guidelines.

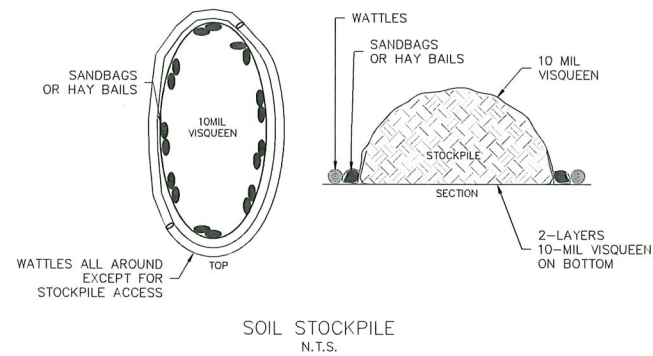
TARGETED POLLUTANTS

Caustic wastewater (high pH level near 12 units)
 Suspended solids
 Assorted Metals; Chromium VI, Nickel, Sulfate, Potassium, Magnesium and Calcium Compounds

NOTES:

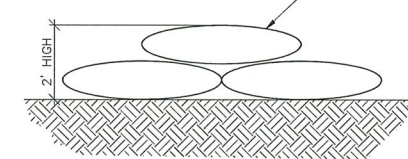
1. ACTUAL LAYOUT DETERMINED IN FIELD
2. THE CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 30 FT. OF THE TEMPORARY CONCRETE WASHOUT FACILITY.

CONCRETE WASHOUT AREA
 N.T.S.

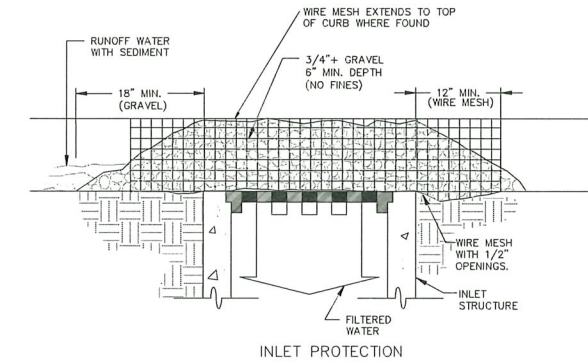


SANDBAGS (GRAVEL BAG)

1. **GENERAL:** SANDBAG SHALL INCLUDE PROVIDING ALL LABOR, MATERIALS, AND EQUIPMENT TO FABRICATE AND INSTALL SANDBAGS AS REQUIRED TO FACILITATE THE CONTROL OF EROSION.
2. **LOCATION:** SANDBAGS SHALL BE PLACED PER PLAN, AND IN LOCATIONS SPECIFIED BY THE COUNTY, AND IN LOCATIONS DEEMED NECESSARY BY THE CONTRACTOR.
3. **FABRICATION:** SANDBAGS SHALL BE FABRICATED USING FACTORY SEWN OR SEALED BAGS OF WOVEN POLYPROPYLENE, TREATED TO RESIST DEGRADATION BY ULTRAVIOLET LIGHT AND HAVING SUFFICIENT RESISTANCE TO TEARING TO ALLOW RELOCATION OF BAGS WITHIN SIX MONTHS OF INITIAL PLACEMENT WITH A LOSS OF NOT MORE THAN FIVE PERCENT OF THE BAGS. THE BAGS SHALL BE FILLED WITH SUBROUNDED TO ROUNDED GRAVEL LESS THAN 3/4-INCH IN DIAMETER, WITH LESS THAN FIVE PERCENT OF MATERIAL PASSING A NO. 30 SIEVE. THE FILLED BAGS SHALL HAVE THE OPEN ENDS SECURELY FASTENED PRIOR TO DELIVERY TO THE SITE.
4. **INSTALLATION:** SANDBAGS SHALL BE INSTALLED IN A MANNER TO ENTRAP SILT AND MUD, AND TO DIVERT THE FLOW OF WATER. NOTWITHSTANDING THE OTHER REQUIREMENTS OF THIS SPECIFICATION, FAILURE OF THE BAGS TO PERFORM THIS FUNCTION SHALL BE REASON TO REJECT THEIR INSTALLATION. SANDBAGS SHALL BE INSTALLED WITH THE WIDEST FACE AGAINST THE GROUND SURFACE OR THE UNDERLYING COURSE OF BAGS, AND PRESSED IN PLACE TO CONFORM TO THE UNDERLYING SURFACE. THE BAGS SHALL BE PLACED WITH THE TIED ENDS IN THE "UPHILL" OR "UPSTREAM" DIRECTION, BEGINNING AT THE LOWEST OR MOST DOWNSTREAM BAG, TIED ENDS WILL BE TUCKED UNDER BAG. SUBSEQUENT BAGS WITHIN ONE COURSE OF BAGS SHALL BE PLACED SO AS TO REST UPON THE TIED END OF THE PREVIOUSLY PLACED BAG, WITH NOT LESS THAN 10 PERCENT OF THE BAG IN CONTACT WITH THE PREVIOUS BAG, AND NOT MORE THAN 20 PERCENT IN CONTACT. SUBSEQUENT COURSES OF BAGS SHALL BE PLACED AS DESCRIBED PREVIOUSLY, WITH THE MID-POINT OF THE BAGS STRADDLING THE JOINTS OF BAGS IN THE UNDERLYING ROW. CONSTRUCTION OF A SANDBAG BERM PERPENDICULAR TO THE DIRECTION OF FLOW SHALL INCORPORATE BAGS PLACED IN A "PYRAMID" CONFIGURATION, WITH ALL INDIVIDUAL BAGS ORIENTED PERPENDICULAR TO THE DIRECTION OF FLOW. THE BERM SHALL BE CONSTRUCTED WITH A SPECIFIED NUMBER OF ROWS AT THE BOTTOM (IN CONTACT WITH THE GROUND), WITH SUCCESSIVELY FEWER ROWS IN EACH OVERLYING COURSE. THE UPSTREAM AND DOWNSTREAM FACES OF THE BERM SHALL BE NO STEEPER THAN 1 1/2 FEET HORIZONTAL TO 1 VERTICAL. DAMAGE WHICH COULD FORESEEABLY BE PREVENTED BY PROPER SANDBAG INSTALLATION SHALL BE THE CONTRACTOR'S RESPONSIBILITY.



SAND BAG (GRAVEL) INSTALLATION
 N.T.S.



BEST MANAGEMENT PRACTICES

THE FOLLOWING BMPs AS OUTLINED IN, BUT NOT LIMITED TO, THE BEST MANAGEMENT PRACTICE HANDBOOK, CALIFORNIA STORMWATER QUALITY TASK FORCE 2009, OR THE LATEST REVISED EDITION, MAY APPLY DURING THE CONSTRUCTION OF THIS PROJECT (ADDITIONAL MEASURES MAY BE REQUIRED IF DEEMED APPROPRIATE BY COUNTY INSPECTORS):

- CA001 - DEWATERING OPERATIONS
- CA002 - PAVING OPERATIONS
- CA003 - STRUCTURE CONSTRUCTION AND PAINTING
- CA010 - MATERIAL DELIVERY AND STORAGE
- CA011 - MATERIAL USE
- CA020 - SOLID WASTE MANAGEMENT
- CA021 - HAZARDOUS WASTE MANAGEMENT
- CA022 - CONTAMINATED SOILS MANAGEMENT
- CA023 - CONCRETE WASTE MANAGEMENT
- CA030 - VEHICLE AND EQUIPMENT CLEANING
- CA031 - VEHICLE AND EQUIPMENT FUELING
- CA032 - VEHICLE AND EQUIPMENT MAINTENANCE
- CA040 - EMPLOYEE/SUBCONTRACTOR TRAINING
- ESC01 - SCHEDULING
- ESC02 - PRESERVATION OF EXISTING VEGETATION
- ESC10 - SEEDING AND PLANTING
- ESC11 - MULCHING
- ESC20 - GEOTEXTILES AND MATS
- ESC21 - DUST CONTROLS
- ESC22 - TEMPORARY STREAM CROSSING
- ESC23 - CONSTRUCTION ROAD STABILIZATION
- ESC24 - STABILIZED CONSTRUCTION ENTRANCE
- ESC30 - EARTH DIKE
- ESC31 - TEMPORARY DRAINS AND SWALES
- ESC32 - SLOPE DRAIN
- ESC40 - OUTLET PROTECTION
- ESC41 - CHECK DAMS
- ESC42 - ROUGHENING/TERRACING SLOPE
- ESC50 - SILT FENCE
- ESC51 - STRAW BALE BARRIERS
- ESC52 - SAND BAG BARRIER
- ESC53 - BRUSH OR ROCK FILTER
- ESC54 - STORM DRAIN INLET PROTECTION
- ESC55 - SEDIMENT TRAP
- ESC56 - SEDIMENT BASIN

IN CASE OF EMERGENCY CALL 911

A STANDBY CREW FOR EMERGENCY WORK SHALL BE AVAILABLE AT ALL TIMES DURING THE RAINY SEASON. NECESSARY MATERIALS SHALL BE AVAILABLE ON SITE AND STOCKPILED AT CONVENIENT LOCATIONS TO FACILITATE RAPID CONSTRUCTION OF TEMPORARY DEVICES OR TO REPAIR ANY DAMAGED EROSION CONTROL MEASURES WHEN RAIN IS IMMINENT.

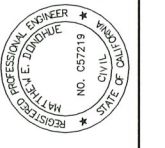
ALL REMOVABLE PROTECTIVE DEVICES SHOWN SHALL BE IN PLACE AT THE END OF EACH WORKING DAY.

AFTER A RAINSTORM, ALL SILT AND DEBRIS SHALL BE REMOVED FROM SANDBAGS.

ALL EXISTING DRAINAGE COURSES ON THE PROJECT SITE MUST CONTINUE TO FUNCTION, ESPECIALLY DURING STORM CONDITIONS. PROTECTIVE MEASURES AND TEMPORARY DRAINAGE PROVISIONS MUST BE USED TO PROTECT ADJOINING PROPERTIES DURING CONSTRUCTION.

REVISIONS	NO.	DATE	DESCRIPTION
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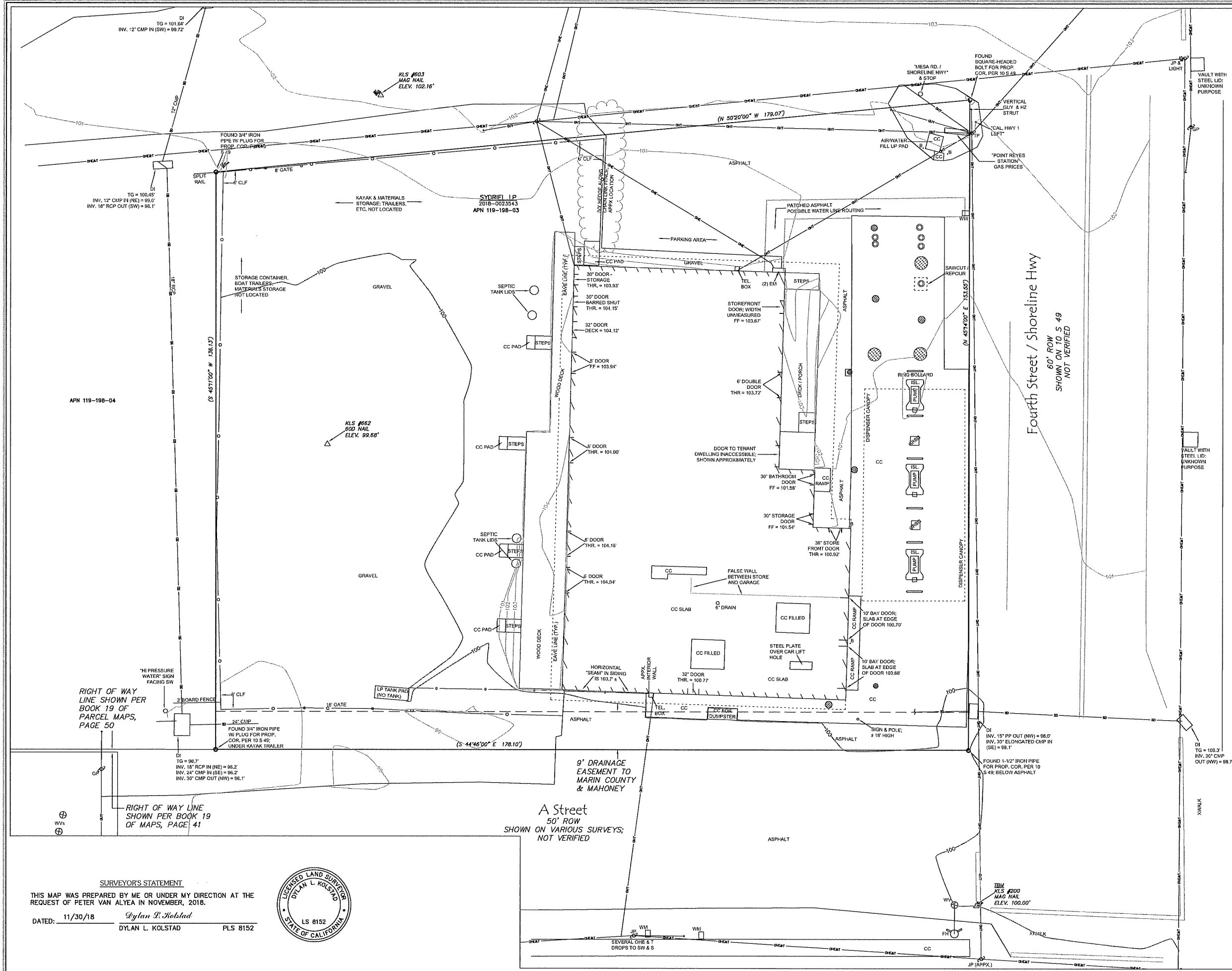


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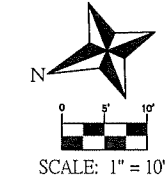
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- SURVEY NOTES:**
1. THIS MAP WAS PREPARED BASED ON FIELD SURVEY BY THIS OFFICE IN JULY, 2018.
 2. BOUNDARY LINES SHOWN ARE BASED ON FOUND MONUMENTS SHOWN ON BOOK 10 OF SURVEYS, PAGE 49, MARIN COUNTY RECORDS.
 3. EASEMENTS OF RECORD ENCUMBERING THE PROPERTY ARE SHOWN, ONLY AS INDICATED BY PRELIMINARY TITLE REPORT PREPARED BY FIDELITY NATIONAL TITLE COMPANY, DATED APRIL 11, 2018, NUMBER FSNX-9041800045.
 4. ELEVATIONS ARE ON AN ASSUMED ON-SITE DATUM, HOLDING AN ELEVATION OF 100.00' ON KLS CONTROL POINT #200 AS SHOWN.
 5. 1-FOOT CONTOURS ARE SHOWN; IN SOME AREAS OF "STEPPED" VERTICAL IMPROVEMENTS, CONTOURS ARE A GENERAL REFERENCE ONLY.
 6. ONLY ABOVE-GROUND EVIDENCE OF UTILITIES WAS SEARCHED FOR AND IS SHOWN. UNDERGROUND UTILITIES EXIST ON-SITE AND ARE NOT SHOWN.
 7. MORE OFF-SITE FEATURES CAN BE FOUND IN THE DIGITAL VERSION OF THIS DRAWING

LEGEND

●	FOUND SURVEY MONUMENT SHOWN ON BOOK 10 OF SURVEYS, PAGE 49
(N 50°20'00" W 178.07')	RECORD DATA PER BOOK 10 OF SURVEYS, PAGE 49, AND/OR DEED
—	BOUNDARY LINES OF PROJECT PROPERTY
—	BOUNDARY LINES OF ADJACENT PROPERTIES
- - -	SIDELINE OF EASEMENT AS IDENTIFIED
SYDRIEL LP 2018-0023543 APN 119-198-03	LAND OWNER, DEED REFERENCE AND APN
APN	ASSESSOR'S PARCEL NUMBER
C	SUPPORT COLUMN
CC	CONCRETE PAD OR SIDEWALK
CLF	CHAIN LINK FENCE
CMP	CORRUGATED METAL PIPE
DI	DRAIN INLET OR GATCHBASIN
EM	ELECTRIC METER
FF	FINISHED FLOOR ELEVATION AT DOORWAY
FR	FIRE HYDRANT
HCR	HANDICAP RAMP
RCP	REINFORCED CONCRETE PIPE
TBM	TEMPORARY / SITE BENCHMARK
TG	TOP OF GRATE OF DI
THR	THRESHOLD ELEVATION AT DOORWAY
WM	WATER METER
WV	WATER VALVE
*	STREET LIGHT
○	GUY POLE, JOINT UTILITY POLE, OR TELEPHONE POLE
△	KOLSTAD CONTROL POINT # & ELEVATION
⊕	STEEL ACCESS LID (TO SCALE)
⊙	RAISED STEEL ACCESS LID (TO SCALE)



SURVEYOR'S STATEMENT
 THIS MAP WAS PREPARED BY ME OR UNDER MY DIRECTION AT THE REQUEST OF PETER VAN ALYEA IN NOVEMBER, 2018.
 DATED: 11/30/18 *Dylan L. Kolstad*
 DYLAN L. KOLSTAD PLS 8152



A Street
 50' ROW
 SHOWN ON VARIOUS SURVEYS;
 NOT VERIFIED

TOPOGRAPHIC SURVEY
 OF THE LANDS OF SYDRIEL LP, DESCRIBED BY INSTRUMENT NO. 2018-0023543, MARIN COUNTY RECORDS
 UNINCORPORATED COMMUNITY OF POINT REYES STATION
 COUNTY OF MARIN STATE OF CALIFORNIA
KOLSTAD LAND SURVEYORS
 PO BOX 594 VOICE (707) 822-2718
 BAYSIDE, CA. 95524 FAX (707) 822-5636
 WWW.KOLSTADPLS.COM
 APN 119-198-03 JULY, 2018 JOB No. 2018-041 SHEET 1 OF 1

LANDS OF REDWOOD OIL, INC.

SUBSURFACE DRIP SEWAGE DISPOSAL SYSTEM

11401 SHORELINE HIGHWAY, POINT REYES STATION

APN: 119-198-03

GENERAL NOTES

- DRIP LINES SHALL FOLLOW THE NATURAL CONTOUR OF THE GROUND. TRENCH BOTTOMS SHALL BE LEVEL. THE MAXIMUM DEVIATION ALONG THE DOWNHILL SIDE OF THE TRENCH SHALL NOT VARY MORE THAN 0.25 FEET (THREE INCHES) VERTICALLY PER A 100 FOOT RUN. DISTRIBUTION TRENCHES SHALL BE ANGLED OR CURVED TO MEET THIS REQUIREMENT.
- BACKFILL MATERIAL SHALL BE NATIVE TOP SOIL PLACED AT NATIVE COMPACTION AND MOUNDING FOR SETTLEMENT.
- PLACE CLEANOUTS EVERY 100' ON GRAVITY MAIN FROM SERVICE CONNECTION TO TANK.
- CONTACT HOGAN LAND SERVICES, INC. (707) 544-2104 AND MARIN COUNTY WITH A MINIMUM OF 48 HOURS BEFORE INITIATING CONSTRUCTION AND PRIOR TO ALL INSPECTION REQUESTS.
- ALL TANKS SHALL BE SIZED ACCORDING TO PLAN AND IAPMO APPROVED. ALL NON-TRAFFIC RATED TANKS SHALL HAVE APPROVED RISERS THAT EXTEND 2" ABOVE SURROUNDING GRADE.
- DURING THE DISPOSAL FIELD INSPECTION THE CONTRACTOR SHALL PERFORM A HYDRAULIC PUMP TEST ON BOTH THE AX100 UNIT AND DRIP FIELD.
- ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE REQUIREMENTS OF THE MARIN COUNTY ENVIRONMENTAL HEALTH DEPARTMENT. ALL MECHANICAL, PLUMBING, AND ELECTRICAL WORK SHALL CONFORM TO THE APPROPRIATE CODES ADOPTED BY THE COUNTY OF MARIN.
- THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR LOCATING AND AVOIDING UTILITY LINES IN THE WORK AREA.
- THE INSTALLATION OF THIS SEWAGE DISPOSAL SYSTEM MAY BE RESTRICTED TO CERTAIN TIMES OF THE YEAR BASED ON SEASONAL GROUNDWATER AND WEATHER CONDITIONS. CONTRACTOR TO VERIFY STARTING TIME WITH HOGAN LAND SERVICES, INC AND MARIN COUNTY ENVIRONMENTAL HEALTH DEPARTMENT.
- QUESTIONS REGARDING THE SUITABILITY OF ANY MATERIALS OR CONSTRUCTION PROCEDURES USED IN CONNECTION WITH THE WORK SHOWN ON THESE PLANS SHALL BE DIRECTED TO THE ENGINEER PRIOR TO CONSTRUCTION.
- ALL SEPTIC TANK AND SUMP JOINTS TO BE WATERTIGHT; SEAL WITH RAMMER JOINT COMPOUND OR EQUAL. SEAL PIPES EXTENDING THROUGH TANK WALLS WITH NON-SHRINK GROUT OVERLAP WITH XYPEX OR THOROSEAL OR PRECAST INTO SUMP. TANK AND RISER JOINT SHALL BE SEALED AND MADE WATER TIGHT WITH NO-SHRINK GROUT OVERLAP WITH XYPEX OR THOROSEAL.
- ATU SERVICE PROVIDER SHALL BE ON SITE AT STARTUP INSPECTION. NOTE: SEPTIC ELECTRICAL SHALL BE APPROVED PRIOR TO SYSTEM FINAL (UNDER SEPARATE BUILDING PERMIT).

NOTES TO OWNER, CONTRACTOR, & OTHERS

- INSTALLATION OF THIS DESIGN WILL REQUIRE A MINIMUM OF ONE SITE REVIEW BY THE ENGINEER DURING CONSTRUCTION. ADDITIONAL REVIEWS MAY BE REQUIRED DEPENDING ON THE ABILITY OF THE CONTRACTOR TO COMPLETE THE SYSTEM IN A TIMELY MANNER AND PER PLAN. ALL FIELD REVIEWS WILL BE BILLED TO THE OWNER AT THE PRINCIPAL ENGINEER RATE SHOWN IN THE PROFESSIONAL SERVICE AGREEMENT.
- MARIN REQUIRES A LETTER OF DESIGN CONFORMANCE ISSUED BY THE ENGINEER ASSESSING DESIGN COMPLIANCE. THIS LETTER IS PREPARED AND SENT UPON COMPLETION OF CONSTRUCTION AND SATISFACTION OF ALL OUTSTANDING INVOICES DUE TO THE ENGINEER.
- SUBSURFACE CONDITIONS MAY BE COMPLEX AND MAY DIFFER FROM THOSE INDICATED BY SURFACE FEATURES OR AS ENCOUNTERED AT PERCOLATION TEST HOLE OR PROFILE TRENCH LOCATIONS. THEREFORE, ROCK OR OTHER VARIATIONS IN SUBSURFACE CONDITIONS NOT INDICATED IN REPORTS OR SHOWN ON THIS PLAN COULD BE ENCOUNTERED. HOGAN LAND SERVICES SHOULD BE NOTIFIED IMMEDIATELY IF ANY ADVERSE CONDITIONS ARE DISCOVERED DURING CONSTRUCTION SO THAT TIMELY ACTION CAN BE TAKEN TO MODIFY THIS PLAN AND/OR THE SYSTEM HEREIN DESIGNED.
- THIS PLAN AND DESIGN IS BASED ON CURRENT STANDARDS AND TECHNICAL DATA REQUIREMENTS OF MARIN COUNTY. COMPLIANCE WITH CURRENT COUNTY CODES, STANDARDS, AND REQUIREMENTS IS NOT A GUARANTEE OF WARRANTY, EITHER EXPRESSED OR IMPLIED, OF SEPTIC SYSTEM FUNCTION OR PERFORMANCE OF THE SYSTEM.
- HOGAN LAND SERVICES, INC. WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR USE OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY HOGAN LAND SERVICES. IN ADDITION, THE ENGINEER ASSUMES NO RESPONSIBILITY OR LIABILITY FOR THE FUNCTION OF ANY OF THE SYSTEM COMPONENTS MANUFACTURED/DESIGNED BY OTHERS.
- THE CONSTRUCTION CONTRACTOR AGREES IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THEY WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND FURTHER AGREES TO DEFEND, INDEMNIFY, AND HOLD DESIGN PROFESSIONAL EXEMPT FROM ANY AND ALL LIABILITY IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT.
- PRINTS OF THESE PLANS USED IN CONSTRUCTION MUST HAVE A "WET" STAMP OF APPROVAL APPLIED BY MARIN COUNTY TO INDICATE THAT A PERMIT TO INSTALL THE SEPTIC SYSTEM HAS BEEN GRANTED. THE ENGINEER ACCEPTS NO RESPONSIBILITY FOR CONSTRUCTION DONE WITHOUT PERMITS OR THE COUNTY APPROVED PLAN(S).
- THE SITE EXHIBITS ASSOCIATED WITH THE PRODUCTION OF THESE PLANS DOES NOT REPRESENT A BOUNDARY DETERMINATION OR COMPLETE TOPOGRAPHIC SURVEY OF THE SITE. ONLY MAPPING WITHIN THE IMMEDIATE VICINITY OF THE PROPOSED SYSTEM HAS BEEN VERIFIED BY THIS OFFICE. PROPERTY LINES SHOWN IN THESE EXHIBITS ARE FOR GENERAL REFERENCE ONLY. ANY USE OF THESE PLANS OTHER THAN FOR INSTALLATION OF THE PROPOSED SEPTIC SYSTEM IS AT THE RISK OF THE DEVELOPER.
- SHOULD TREE ROOT ZONE BE IMPACTED, IT IS THE RESPONSIBILITY OF THE PROPERTY OWNER TO CONSULT WITH A QUALIFIED ARBORIST TO DETERMINE THE APPROPRIATE COURSE OF ACTION.

INSTALLATION GUIDELINES

ALL GEOFLOW DRIP SYSTEMS REQUIRE:

- 100 MICRON / 150 MESH FILTER, FILTER FLUSH VALVE, FIELD FLUSH VALVE AND AIR VENT IN EACH ZONE. ALL WASTEFLOW PC DRIP SYSTEMS REQUIRE PRESSURE REGULATION. SYSTEM TO BE INSTALLED BY LICENSED CONTRACTOR WITH AT LEAST 5 YEARS EXPERIENCE. HANDLE DRIPLINES AND COMPONENTS WITH CARE. PROTECTORS ARE TEMPERATURE SENSITIVE. TO ASSURE A LONG LIFE STORE THE DRIP LINE OUT OF DIRECT SUNLIGHT IN A COOL PLACE. THIS SHOULD BE A CONSIDERATION WHEN INSTALLING THE SYSTEM IN VERY HOT AND SUNNY AREAS.
- ALL DRIPFIELD CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH LOCAL RULES AND REGULATIONS.
- NO UTILITIES, CABLE WIRE, DRAINAGE LINES, ETC. SHALL BE LOCATED IN DRIPFIELD.
- TAKE MEASURES TO PREVENT COMPACTION OF THE DRIP FIELD DURING AND AFTER CONSTRUCTION.
- THE SYSTEM IS NOT TO BE INSTALLED WHEN GROUND IS WET OR FROZEN.
- DIVERT ALL DOWNSPOUTS AND SURFACE WATERS AWAY FROM DRIPFIELD.
- PLACEMENT OF FILL SOILS (IF APPLICABLE) SHOULD BE COMPLETED PRIOR TO INSTALLATION OF THE SUBSURFACE DRIP SYSTEM.
- ALL MATERIALS REQUIRED FOR THE INSTALLATION SHOULD BE ON SITE PRIOR TO OPENING TRENCHES. PRE-ASSEMBLE COMPONENTS AS PRACTICAL ABOVE GROUND AND IN A COMFORTABLE PLACE. COMPRESSION OR LOCKSLIP ADAPTERS SHOULD BE GLUED TO PVC TEES; RISER UNITS SHOULD BE PRE-ASSEMBLED. THE SUB-MAIN MANIFOLD WITH TEES CAN BE PRE-ASSEMBLED AND USED TO MARK THE BEGINNING AND END OF WASTEFLOW LINES.

- THE SOIL SURFACE SHOULD BE DRY SO THAT THE INSTALLATION EQUIPMENT MAINTAINS TRACTION. PROPER PRECAUTION SHOULD BE TAKEN TO REDUCE SMEARING AND COMPACTION OF THE DRAINFIELD AND THE TRENCH SIDEWALLS.
- MARK THE FOUR CORNERS OF THE FIELD. THE TOP TWO CORNERS SHOULD BE AT THE SAME ELEVATION AND THE BOTTOM TWO CORNERS SHOULD BE AT A LOWER ELEVATION. IN FREEZING CONDITIONS THE BOTTOM DRIFLINE MUST BE HIGHER THAN THE SUPPLY AND RETURN LINE ELEVATION AT THE DOSING TANK.
- INSTALL THE DOSING TANK PER PLAN. IN FREEZING CONDITIONS THE DOSING TANK SHOULD BE AT THE LOWEST ELEVATION OF THE ENTIRE SYSTEM. INSTALL A WATERTIGHT RISER ON THE DOSING TANK.
- DETERMINE THE PROPER SIZE FOR THE SUPPLY AND RETURN MANIFOLDS. SEE WORKSHEET & PLAN.
- INSTALL THE PVC SUPPLY LINE FROM THE DOSING TANK TO THE TOP FEED MANIFOLD ON THE SUPPLY SIDE OF THE DISPERSION FIELD. 24" MINIMUM COVER FOR SUPPLY, RETURN AND PRESSURE MAINS.
- PAINT A LINE BETWEEN THE TWO CORNER STAKES ON THE RETURN SIDE OF THE DISPERSION FIELD.
- INSTALL THE GEOFLOW WASTEFLOW DRIFLINE 2' ON CENTER IN 3" WIDE TRENCH FROM THE SUPPLY SIDE OF THE DISPERSION FIELD TO THE PAINTED LINE, 8" INTO NATIVE. UPON REACHING THE PAINTED LINE, PULL THE FLOW OUT OF THE GROUND AND CUT THE DRIFLINE ONE FOOT ABOVE THE GROUND. TAPE THE END OF THE DRIFLINE TO PREVENT DEBRIS FROM ENTERING. CONTINUE THIS PROCESS UNTIL THE REQUIRED FOOTAGE OF DRIP LINE IS INSTALLED. GEOFLOW DRIFLINE MUST BE SPACED ACCORDING TO SPECIFICATION (TWO FEET IS STANDARD). DEPTH OF BURIAL OF DRIFLINE MUST BE CONSISTENT THROUGHOUT THE FIELD. TAKE CARE NOT TO GET DIRT INTO THE LINES. SERPENTINE LINES MAY BE UTILIZED TO REDUCE THE NUMBER OF REQUIRED TEES.
- INSTALL THE SUPPLY TOP FEED MANIFOLD. HOOK UP THE GEOFLOW LINES TO THE TOP FEED MANIFOLD PER DETAIL/PLAN. DO NOT GLUE WASTEFLOW DRIFLINE.

VALVE INSTALLATION AND OPERATION

- HOLD THE FITTING IN ONE HAND AND POSITION THE TUBING WITH THE OTHER HAND.
- MOVE THE SLEEVE BACK, AND PUSH THE TUBING ONTO THE EXPOSED STEM AS FAR AS POSSIBLE.
- PUSH THE SLEEVE OUT OVER THE TUBING AND THREAD THE SLEEVE ONTO TUBING, AS THOUGH TIGHTENING A NUT TO A BOLT. HAND TIGHTEN. DO NOT USE TOOLS.
- INSTALL THE BIDISC FILTER AND FILTER FLUSH VALVE, OR INSTALL THE PRE-ASSEMBLED HEADWORKS BETWEEN THE FIELD AND THE PUMP TANK ON THE SUPPLY LINE. INSULATE THE BOX IN FREEZING CONDITIONS. INSTALL SUPPLY AND RETURN FLOW METERS IN CONCRETE OR PLASTIC BOX PER DETAIL.
- INSTALL THE PRESSURE REGULATOR DOWNSTREAM OF THE FILTER OR HEADWORKS, JUST AHEAD OF THE DISPERSAL FIELD, ON THE SUPPLY LINE. INSTALL THE PRESSURE REGULATOR INSIDE A SMALL VALVE BOX FOR EASY ACCESS. INSULATE THE BOX IN FREEZING CONDITIONS.
- INSTALL THE FLOATS IN THE DOSING TANK AND WIRE TO THE TIMER CONTROL. THE TIMER CONTROL SHOULD BE SET TO PUMP NO MORE THAN THE DESIGN FLOW, DO NOT SET TO MATCH THE TREATMENT CAPACITY. 3 FLOAT SYSTEM REQUIRED FOR TIME DOSED SETUP.
- INSTALL THE PUMP. FILL THE DOSING TANK WITH FRESH WATER AND TURN ON THE PUMP. CHECK FOR FLOW OUT THE ENDS OF ALL OF THE GEOFLOW LINES. LET THE PUMP RUN FOR ABOUT FIVE MINUTES TO FLUSH OUT ANY DIRT. SHUT OFF THE PUMP AND TAPE THE ENDS OF THE LINES.

- DIG THE RETURN SIDE TOP FEED MANIFOLD DITCH ALONG THE LINE PAINTED ON THE GROUND AND BACK TO THE PRE-TREATMENT TANK. START THE RETURN HEADER AT THE FURTHEST END FROM THE DOSING TANK. THE RETURN LINE MUST HAVE SLOPE BACK TO THE TREATMENT TANK OR SEPTIC TANK.
- INSTALL THE RETURN SIDE TOP FIELD MANIFOLD AND CONNECT ALL OF THE GEOFLOW LINES. CARE MUST BE TAKEN NOT TO KINK THE DRIFLINE.
- INSTALL AIR VACUUM BREAKERS AT THE HIGHEST POINTS IN THE DISPERSAL FIELD. USE PIPE DOPE OR TEFLON TAPE AND HAND TIGHTEN.
- CONNECT THE RETURN LINE BACK THROUGH THE HEADWORKS BOX & FIELD FLUSHING VALVE. OPEN THE FIELD FLUSH VALVE AND TURN ON THE PUMP TO FLUSH LINES THEN CLOSE THE VALVE AND CHECK THE FIELD AND ALL PIPING AND CONNECTIONS FOR LEAKS. TURN OFF THE SYSTEM.
- TURN ON THE PUMP AND CHECK THE PRESSURE AT THE AIR VACUUM BREAKER(S). IT SHOULD BE BETWEEN 15 TO 45 PSI. CHECK THE PRESSURE IN THE WASTEFLOW HEADWORKS. IT SHOULD BE FIVE PSI OR HIGHER. IF USING A MANUAL VALVE FOR FIELD FLUSHING, CRACK IT OPEN UNTIL AT LEAST ONE PSI IS LOST OR DESIGN PRESSURE IS REACHED AND LEAVE IN THAT POSITION.
- CHECK THE FILTER FOR CONSTRUCTION DEBRIS AND CLEAN.
- PROVIDE OWNER WITH FINAL AS-BUILT DIAGRAMS, FLOW MEASUREMENTS AND PRESSURE READINGS AT STARTUP.

VALVE INSTALLATION AND OPERATION

- WRAP MALE ADAPTERS WITH 2 WRAPS OF TEFLON TAPE AND THREAD THE ADAPTERS INTO THE VALVE INLET AND OUTLET 1 TURN PAST HAND TIGHT. CAUTION: OVER TIGHTENING MAY CAUSE DAMAGE TO THE VALVE. THE SOLENOID IS LOCATED ON THE DOWNSTREAM SIDE OF THE VALVE.
- USING WATERTIGHT CONNECTORS, CONNECT THE VALVE COMMON AND AN INDIVIDUAL OUTPUT WIRE TO THE SOLENOID LEADS.
- FLUSH THE LATERALS BY OPENING THE INTERNAL MANUAL BLEED LEVER ON THE DOWNSTREAM SIDE OF THE SOLENOID. TURN THE FLOW CONTROL STEM FULLY OPEN (COUNTERCLOCKWISE) FOR FLOW CONTROL MODELS.
- CLOSE THE INTERNAL MANUAL BLEED AFTER FLUSHING THE SYSTEM.

EROSION AND SEDIMENT CONTROL

- PERFORM EROSION PREVENTION AND SEDIMENT CONTROL IN ACCORDANCE WITH THE LATEST EDITION OF THE CBC AND THE SONOMA COUNTY CODE.
- DURING THE RAINY SEASON, OCT. 1 TO APRIL 30, EROSION PREVENTION AND SEDIMENT CONTROL MEASURES SHALL BE IN PLACE.
- PRESERVATION OF EXISTING VEGETATION SHALL OCCUR TO THE MAXIMUM EXTENT PRACTICABLE.
- THE OWNER IS RESPONSIBLE FOR PREVENTING STORM WATER POLLUTION GENERATED ON THE SITE. IF QUESTIONS REGARDING THE COUNTY SPECIFIED BEST MANAGEMENT PRACTICES FOR EROSION AND SEDIMENT CONTROL CALL HOGAN LAND SERVICES, INC.
- EROSION PREVENTION AND SEDIMENT CONTROL MEASURES SHALL BE INSPECTED BY THE OWNER BEFORE AND AFTER STORM EVENTS.
- CHANGES TO THE EROSION PREVENTION AND SEDIMENT CONTROL MEASURES MAY RESULT IN RESPONSE TO FIELD CONDITIONS.
- ENTRANCES TO SITE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF POTENTIAL POLLUTANTS OFFSITE. POTENTIAL POLLUTANTS DEPOSITED ON PAVED AREAS WITHIN THE COUNTY R.O.W. SHALL BE DISPOSED OF AS THEY OCCUR.
- EXPOSED SLOPES SHALL BE PROTECTED BY USING EROSION PREVENTION MEASURES. FIBER ROLL SILT BARRIERS AND SILT FENCES SHALL BE KEYED INTO THE SOIL AND INSTALLED ON CONTOUR.
- ALL DISTURBED AREAS SHALL BE SEEDED AND MULCHED AS SOON AS PRACTICABLE AFTER GRADING. GROUND SHOULD BE COMPLETELY COVERED.
- STORM DRAIN INLETS SHALL BE PROTECTED FROM POTENTIAL POLLUTANTS.
- SOIL STOCKPILES SHALL BE PROPERLY PROTECTED TO MINIMIZE RUNOFF.
- SOLID WASTE AND CONSTRUCTION MATERIALS SHALL BE PLACED IN DESIGNATED COLLECTION AREAS AND DISPOSED OF AT APPROVED DISPOSAL SITES.
- ALL UNDERGROUND BOXES REQUIRE INSTALLATION OF GOPHER-RESISTANT BARRIERS.
- NO FOUNDATION AND/OR DRIVEWAY CUTS AND NO SURFACE OR SUB-SURFACE DRAINS ARE TO BE LOCATED WITHIN 50 FT DOWN SLOPE OR LATERALLY OF THE PRIMARY OR RESERVE/REPAIR AREA OF ANY LEACH FIELD. DIRECT DOWN SPOUTS AWAY FROM LEACHFIELD.

SYSTEM DESIGN CRITERIA

SYSTEM DESIGN CAPACITY: 1,500 GPD
 PERC TEST: 09/28/22, P1664
 SITE EVALUATION: 07/08/22, PP1 AND PP2
 WET WEATHER GROUNDWATER TESTING: 1/11/22, 1/13/22, 1/24/22, 3/31/22

STAGES TO BE INSPECTED

CONTRACTOR IS REQUIRED TO HAVE ENGINEER AND/OR MARIN COUNTY REHS INSPECT THE CONSTRUCTION AT THE FOLLOWING STAGES. FAILURE TO REQUEST THESE INSPECTIONS WILL RESULT IN THE CONTRACTOR HAVING TO UN-EARTH AND RE-DO THE WORK. THE ENGINEER MUST ISSUE AN INSPECTION REPORT TO THE COUNTY PRIOR TO ACCEPTANCE OF THE SYSTEM BY THE COUNTY. THE CONTRACTOR SHALL GIVE 48-HOUR ADVANCE NOTICE TO THE ENGINEER FOR ANY OF THESE INSPECTIONS:

- INSPECTIONS BY ENGINEER ONLY:
- INSPECTION OF IMPORTED MATERIALS.
 - CHECKING OF LAYOUT, LINE AND GRADE, STAKES.

INSPECTIONS BY HOGAN LAND SERVICES, INC. AND MARIN COUNTY REHS:

- SEPTIC & SUMP TANK WATER TIGHTNESS TEST.
- INSPECTION OF HYDRAULIC (SOURT) TEST.
- INSPECTION OF PRESSURE LINES PRIOR TO COVER.
- FINAL INSPECTION, MONITORING WELL LOCATIONS.
- THE ENGINEER, INSTALLER AND SERVICE PROVIDER WILL BE PRESENT WITH MARIN COUNTY REHS AT THE START UP INSPECTION.

PROJECT CONTACT INFORMATION

DESIGNER INFORMATION:
 HOGAN LAND SERVICES, INC.
 4780 SONOMA HWY, SANTA ROSA
 DANIEL BYRNE, RCE 80078
 DBYRNE@HOGANLS.COM
 (707)-544-2104

OWNER INFORMATION:
 REDWOOD OIL, INC.
 JULIE VANALYEA
 JULIE@REDWOODOIL.NET
 (415) 999-0650

LANDSCAPING

- HOMEOWNERS AND CONTRACTORS ARE PROHIBITED FROM PLACING UNACCEPTABLE PLANTS, SHRUBS, TREES, ORNAMENTS, VEGETATIVE COVER, AND IRRIGATION SYSTEM OVER OR CLOSE TO A SUBSURFACE DRIP IRRIGATION (SDI) SYSTEM.
- HOMEOWNERS WILL BE REQUIRED TO INSPECT THE SDI REGULARLY AS PART OF THE MONITORING PROGRAM. INSPECTIONS INCLUDE CHECKING FOR GOPHER STRIKES, DAMAGED OR TORN SDI LINES, AND DAMAGED EQUIPMENT. OWNERS SHALL HAVE A LICENSED AND EXPERIENCED PROFESSIONAL C-36, C-42, OR A LICENSED GENERAL ENGINEERING CONTRACTOR INSTALL AND/OR REPAIR DAMAGED SDI LINES AND EQUIPMENT.

SHEET INDEX

SHEET	DESCRIPTION
SHEET 1	DRIP SYSTEM NOTES
SHEET 2	DRIP SYSTEM NOTES & CALCS
SHEET 3	DRIP SYSTEM DETAILS
SHEET 4	DRIP SYSTEM PLAN



THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECTOR AT THE REQUEST OF JULIE VANALYEA IN NOVEMBER, 2022

DRN: FDT
 CHK: LS
 PW: DBIL
 DATE: 3/30/23
 JOB #: 480

DANIEL P. BYRNE III R.C.E. 80078

HOGAN LAND SERVICES
 A CALIFORNIA CORPORATION

4780 SONOMA HWY.
 SANTA ROSA, CA 95409

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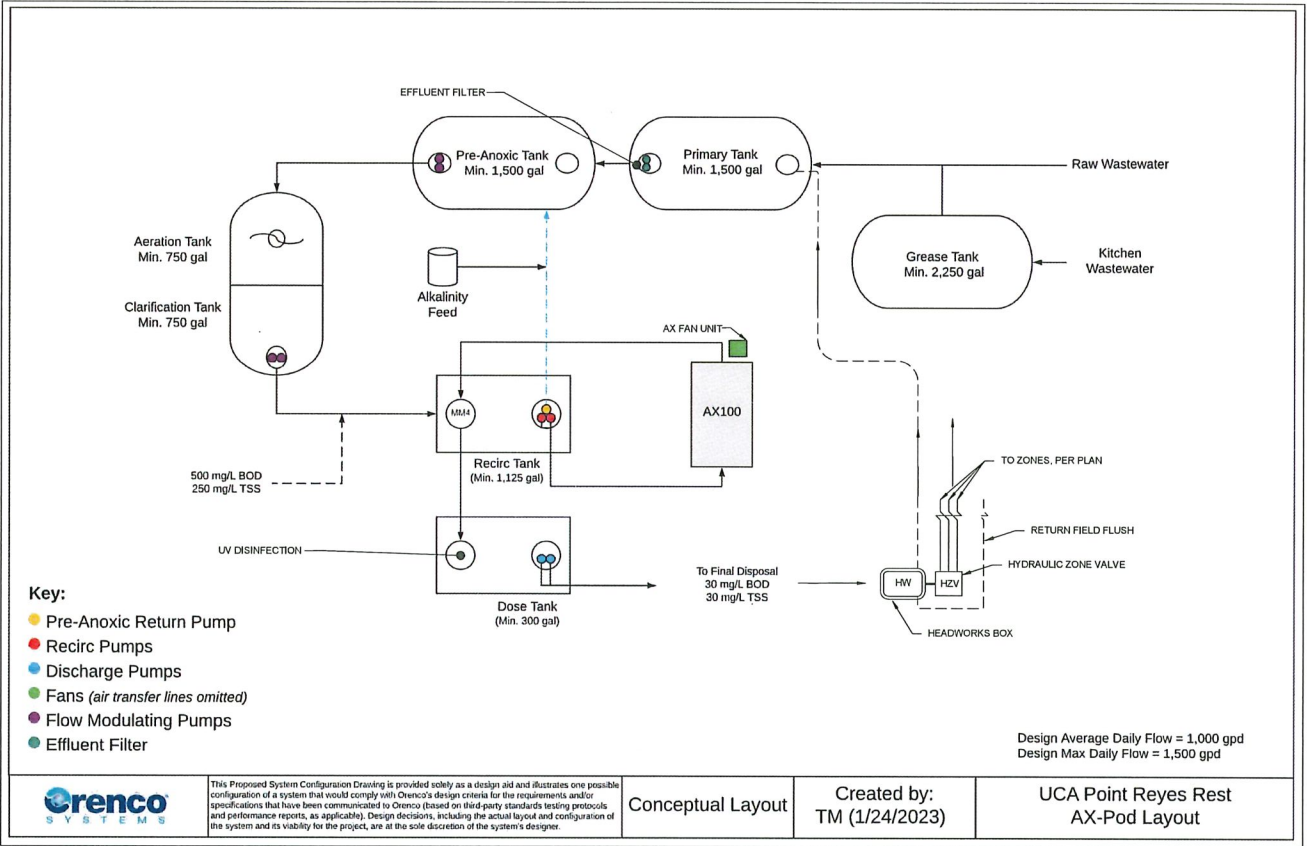
www.hoganls.com

LANDS OF REDWOOD OIL, INC.
DRIP SYSTEM NOTES

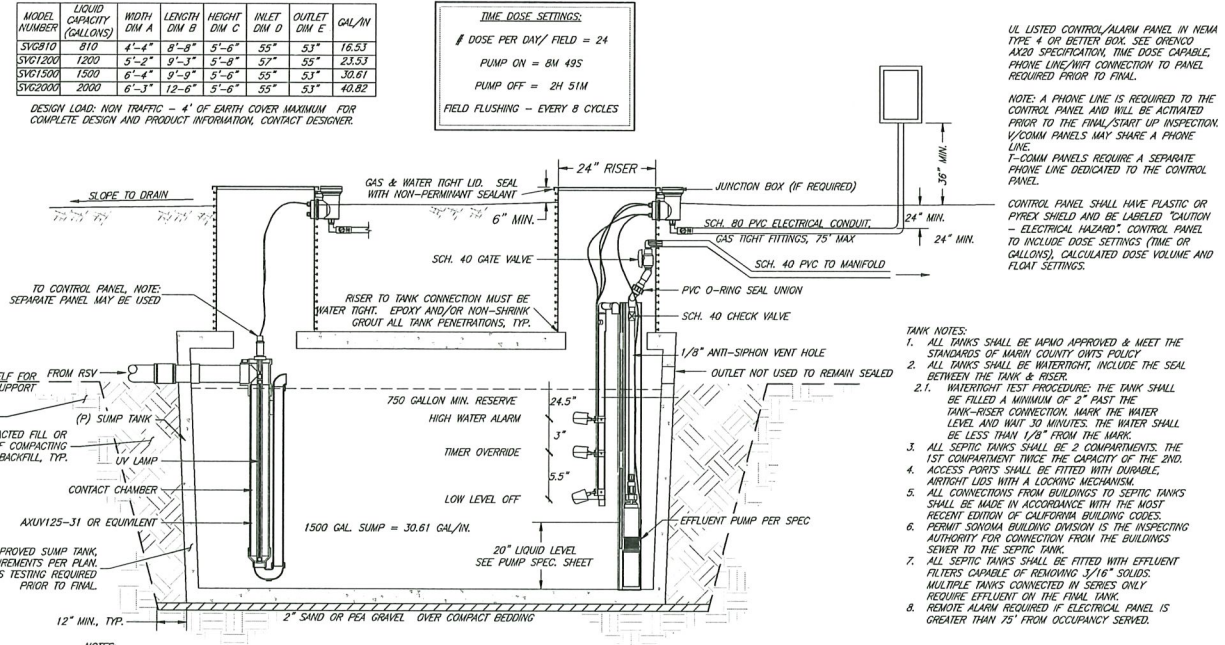
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 POINT REYES STATION, CA

APN: 119-198-03

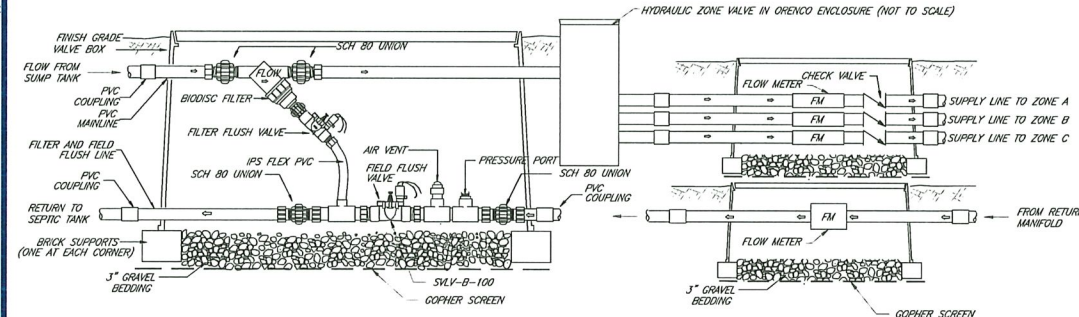
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 DRIP_SYSTEM NOTES-SONOMA



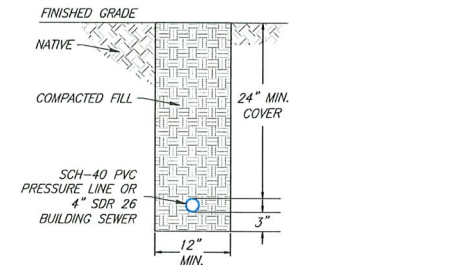
1 ADVANTECH AX-100 PRE-TREATMENT SCHEMATIC DETAIL
 PLAN REVIEW LETTER AND PRE CONSTRUCTION MEETING WITH ATU MANUFACTURER REPR. REQUIRED
 NO SCALE



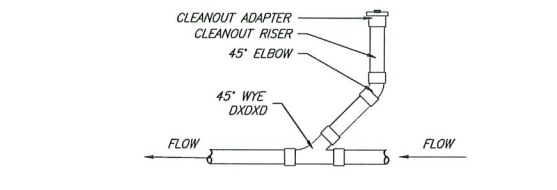
2 SUMP TANK WITH CONTROL PANEL AND UV LIGHT DETAIL
 NO SCALE



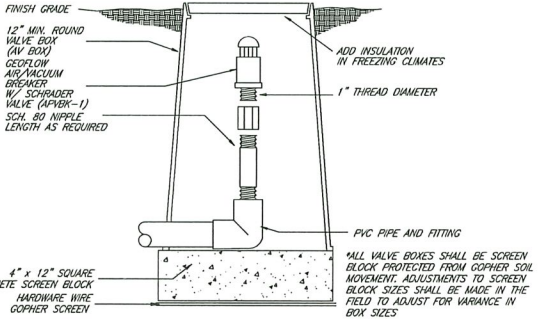
3 HEADWORKS BOX & FLOW METERS DETAIL
 NO SCALE



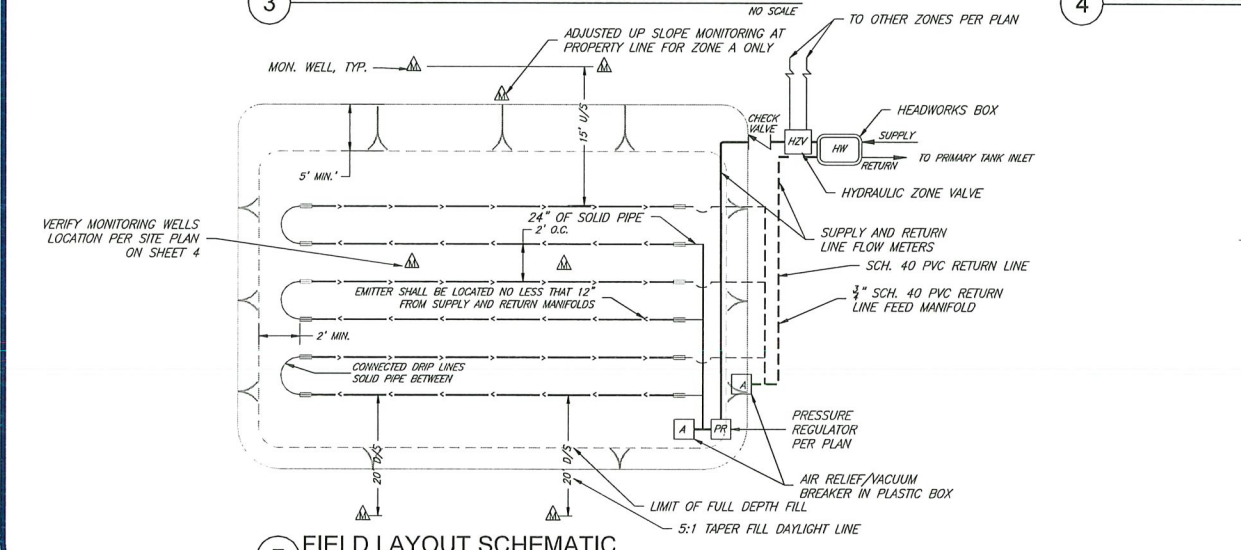
4 TRENCH DETAIL
 NO SCALE



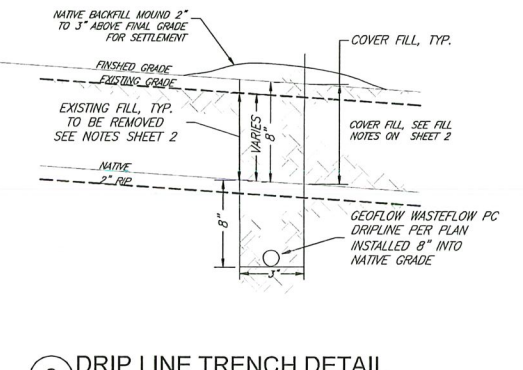
5 STANDARD CLEANOUT DETAIL
 INSTALL CLEANOUTS BEFORE SEPTIC TANK
 NO SCALE



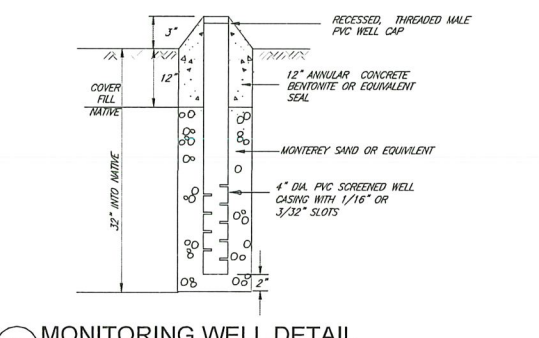
6 1" AIR RELIEF VALVE
 NO SCALE



7 FIELD LAYOUT SCHEMATIC
 SINGLE ZONE SHOWN MULTI ZONE SIMILAR
 NO SCALE



8 DRIP LINE TRENCH DETAIL
 NO SCALE



9 MONITORING WELL DETAIL
 NO SCALE



THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECTION AT THE REQUEST OF JULIE VANALTEA IN NOVEMBER, 2022

DANIEL P. BYRNE III R.C.E. 80078

DRN:	FDT	LS	DBIII	DATE:	3/30/23	JOB #:	4490
CHK:	LS	DBIII	DATE:	3/30/23	JOB #:	4490	

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LANDS OF REDWOOD OIL INC.
 DRIP SYSTEM DETAILS

11401 SHORELINE HIGHWAY
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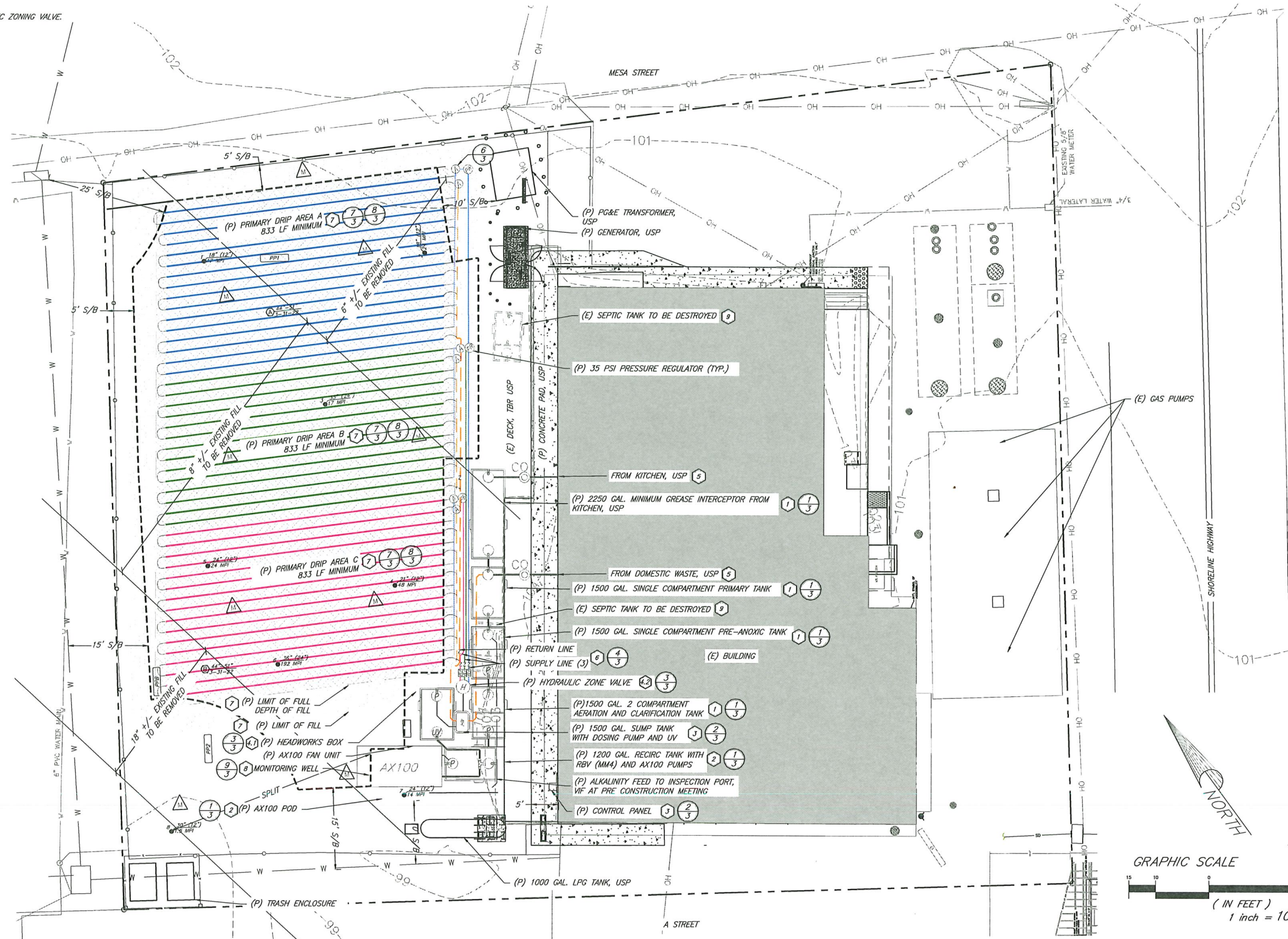
INSTALLATION NOTES

1. INSTALL 2250 GALLON SINGLE COMPARTMENT GREASE TANK, A 1500 GALLON SINGLE COMPARTMENT PRIMARY TANK WITH SANITARY-TEE AT INLET AND EFFLUENT FILTER AT OUTLET, A 1500 GALLON PRE-ANOXIC TANK, AND 1500 AERATION AND CLARIFICATION TANK. SEE TYPICAL SEPTIC TANK INSTALLATION AND MANUFACTURER'S ATU INSTALLATION SCHEMATIC DETAIL 1 ON SHEET 3. REFER TO COMPLETE ATU MANUFACTURER INSTALLATION INSTRUCTIONS.
2. INSTALL 1200 GAL. MINIMUM IAPMO APPROVED SINGLE COMPARTMENT RE-CIRCULATION TANK WITH ADVANTECH AX DOSING PUMP, RBV (MM4), ALKALINITY FEED WITH PRE-ANOXIC RETURN PUMP TO PRE-ANOXIC TANK PER MANUFACTURER'S SPECIFICATION. INSTALL AX 100 PRETREATMENT FILTRATION POD. SEE DETAIL 1 ON SHEET 3. REFER TO COMPLETE MANUFACTURER'S SPECIFICATIONS FOR COMPREHENSIVE INSTALLATION INSTRUCTIONS. FINAL LOCATION SHALL BE DETERMINED AT TIME OF CONSTRUCTION. ALTERNATE TANK LOCATION TO BE CONFIRMED WITH HLS, INC. PRIOR TO CONSTRUCTION.
3. INSTALL 1500 GAL. IAPMO APPROVED SUMP TANK PER DETAIL 2 ON SHEET 3 WITH ORENCO UV-125/31-UVIB-25 DISINFECTION UNIT PER DETAIL AND MANUFACTURER'S SPECIFICATIONS. INSTALL ORENCO PF2010 SUMP PUMP OR EQUIVALENT, AND CONTROL PANEL.
- 4.1. INSTALL MULTI-ZONE HEADWORKS WASTEFLOW BOX WITH FLUSH VALVE AND VORTEX FILTER. INSTALL CHECK VALVE ON SUPPLY LINE PRIOR TO DRIP FIELD PER DETAIL. SEE DETAIL AND MANUFACTURER SPECIFICATIONS. INSTALL FLOW METERS IN APPROVED PLASTIC ENCLOSURE FOR ALL THREE SUPPLY LINES AND FOR THE SINGLE RETURN LINE.
- 4.2. INSTALL HYDRAULIC ZONING VALVE.

5. CONNECT TO BUILDING SEWER CLEANOUT WITH 4" SDR-26 @ 2%, SEE PLUMBING PLAN.
6. INSTALL 3/4" SCH 40 PVC SUPPLY AND RETURN LINE TO EACH FIELD. INSTALL 35 PSI PRESSURE REGULATOR ON SUPPLY LINE PER PLAN. INSTALL AIR RELIEF VALVE AT TOP FEED MANIFOLD HIGH POINT ON BOTH SUPPLY AND RETURN LINES.
7. PRIOR TO DRIP LINE INSTALLATION, INSTALL COVER FILL PER DETAILS AND SPECS ON SHEET 2. UPON COMPLETION OF FILL, INSTALL PRIMARY DRIP ZONES A, B, & C 8.33 L.F. MIN. EACH WITH MANIFOLD AND 35 PSI PRESSURE REGULATOR. INSTALL AIR RELIEF VALVE ON SUPPLY/RETURN LINE ENDS. ALL VALVES & FITTINGS TO BE SIZED ACCORDING TO SUPPLY/RETURN LINE SIZING.
8. INSTALL 9 MONITORING WELLS PRIOR TO DRIP LINE INSTALLATION PER SITE PLAN.
9. ABANDON EXISTING SEPTIC TANKS (2), PER NOTES ON THIS SHEET.

TANK ABANDONMENT NOTES

- A. SEPTIC TANKS MAY BE ABANDONED IN PLACE OR COMPLETELY REMOVED.
 - B. HAVE THE TANK PUMPED AND RINSED BY A LICENSED TANK PUMPER. THE RECEIPT IS REQUIRED PRIOR TO FINALIZING THE PERMIT.
 - WHEN ABANDONING IN PLACE:
 1. REMOVE THE RISERS AND LIDS FROM THE EXISTING TANK.
 2. EXCAVATE THE ENTIRE TOP OF THE TANK FOR EASY ACCESS. REMOVE/BREAK TANK LID TO ACCESS TANK BOTTOM. PUNCH HOLES IN BOTTOM OF BOTH TANK COMPARTMENTS. CALL FOR TANK DESTRUCTION INSPECTION, IT CAN CORRESPOND WITH SYSTEM FINAL INSPECTION.
 3. ONCE THE COUNTY AND ENGINEER HAS APPROVED THE TANK HOLES, BACKFILL THE TANK WITH EARTH, SAND, OR GRAVEL MATERIAL TO DEPTH OF APPROXIMATELY 1' BELOW FINISHED GRADE. THE TANK LID CAN BE BROKEN INTO SMALL PIECES AND ADDED TO THE BACK FILL CAREFULLY AS TO NOT CREATE ANY LARGE VOIDS.
 4. FILL THE REST OF THE TANK AREA TO MATCH EXISTING GRADE AND GRADE TO PROPERLY DRAIN. EROSION CONTROL MEASURES SHOULD BE PROVIDED IN ALL DISTURBED AREAS. THE PERMIT WILL NOT BE FINALED UNTIL ENGINEER HAS OBSERVED PROPER EROSION CONTROL.
 5. AS AN ALTERNATIVE OPTION, THE TANK CAN BE PUMPED, REMOVED, AND HAULED TO A DISPOSAL SITE. CALL FOR AN INSPECTOR PRIOR TO BACKFILLING EXCAVATION. BACKFILL WITH SOIL, SAND, GRAVEL, CONCRETE OR OTHER MATERIAL APPROVED ADMINISTRATIVE AUTHORITY.
- A COPY OF THE DISPOSAL RECEIPT SHALL BE MADE UPON REQUEST.



LEGEND

- RECORD BOUNDARY LINE
- EDGE OF CONCRETE
- x- FENCE
- SDS PRIMARY FIELD A
- SDS PRIMARY FIELD B
- SDS PRIMARY FIELD C
- RETURN LINE
- SANITARY SEWER
- SDS SETBACK LINE
- DEPTH SMP
- DEPTH
- SOILS PROFILE PIT W/DEPTH
- WELL
- MONITORING WELL
- CLEANOUT
- U/S
- D/S
- S/B
- USP
- VIF
- TBR
- PRV
- AV
- FLOW METER
- HEADWORKS BOX
- AX20
- AX20 PRETREATMENT POD
- INSTAL KEY NOTE
- DETAIL
- SHEET



THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECTION AT THE REQUEST OF
BY JULIE VALANTEA IN NOVEMBER, 2022

D.P. Byrne

DANIEL P. BYRNE III R.C.E. 80078

DRN: FDT
CHK: LS
PW: DBIL
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LANDS OF REDWOOD OIL INC.
DRIP SYSTEM PLAN

APN: 119-198-03

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