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HIGHLAND FARMS, LP - PHASE 2 FOR LAKE COUNTY DEVEOPEMENT CO.

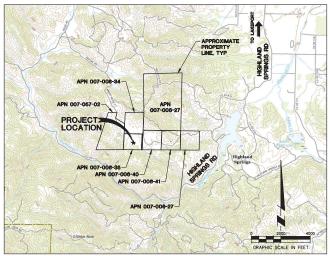
> HIGHLAND SPRINGS ROAD LAKEPORT, CA 95453

APNS: 007-006-40, 35, 34, 27, 41 & 007-057-01 & 02

### PROJECT TEAM

SUMMIT ENGINEERING, INC. **CIVIL & WASTEWATER ENGINEERING** SANTA ROSA, CALIFORNIA (707) 527-0775

**CONSER LAND SURVEYING** SURVEYOR LAKEPORT, CALIFORNIA (707) 263-5512



LOCATION MAP

### CONTROL

- VERTICAL DATUM OF THIS MAP IS BASED ON THE MAP OF TOPOGRAPHY OF HIGHLAND FARMS DRAWN BY CONSER LAND SURVEYING, DATED FEBRUARY 2021 AND IS STATED AS ASSUMED.
- HORIZONTAL DATUM OF THIS MMP IS BASED ON THE CONTROL FORMTS ESTABLISHED BY CONSER LAND SURVEYING ON THE ORIGINAL MAP OF TOPOGRAPHY OF HIGHLAND FARMS, DATED FEBRUARY 2021.

  NORTH OF THE MEST OF THE STATES AS: SC ARM MONUMENTS ON THE WEST NORTH OF THE MEST OF

# **EARTHWORK**

24.0 ACRES 99,600 CU. YDS. 39,350 CU. YDS. 60,250 CU. YDS. (CUT)

VALUES ARE FOR PERMITTING ONLY AND ARE NOT TO BE USED FOR BIDDING CONTRACTOR SHALL PERFORM THEIR OWN EARTHWORK CALCULATIONS.

## PURPOSE OF PROJECT

THIS PROJECT WILL MAKE THE FOLLOWING IMPROVEMENTS, GRADING, DRAINAGE AND ACCESS FOR CANNABIS CULTIVATION.

# OWNER/PERMITEE

AUTUMN KARCEY 371 LAKEPORT BLVD. #174 LAKEPORT, CA 95453 530 379-8588

# LIST OF DRAWINGS

040	TITLE	OHEET
C1.0		SHEET

U.I GENERAL INFORMATIO	C1.1	GENERAL	INFORMATIO
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## **GENERAL INFORMATION**

### **OVERALL SITE PLAN**

#### LAYOUT & HORIZONTAL CONTROL PLAN

# GRADING, DRAINAGE & STORMWATER

# MANAGEMENT PLAN GRADING, DRAINAGE & STORMWATER

# MANAGEMENT PLAN PROFILES - ALIGNMENT A 3

#### C7.1 PROFILES - ALIGNMENT B

(SHEET NOT INCLUDED, REFER TO PHASE 1B PLANS)

(SHEET NOT INCLUDED, REFER TO PHASE 1B PLANS)

# SECTIONS - ALIGNMENT A

# (SHEET NOT INCLUDED, REFER TO PHASE 1B PLANS)

### SECTIONS - ALIGNMENT B (SHEET NOT INCLUDED, REFER TO PHASE 1B PLANS)

#### SECTIONS - ALIGNMENT B (SHEET NOT INCLUDED, REFER TO PHASE 1B PLANS)

#### C9.0 DETAILS

C9.1 DETAILS

O

SCALE: DRAWN: CHECKED:

## **GENERAL NOTES**

**ABBREVIATIONS** 

ANGLE
ALGEBRAIC DIFFERENCE
CENTERLINE
DIAMETER
FLOWLINE

FLOWLINE
PROPERTY LINE/ PLATE
AGGREGATE BASE
ASPHALT CONCRETE
ASBESTOS CEMENT PIPE
AREA DRAIN
ADDITIONAL
ABOVE FRISHED FLOOR
AGGREGATE
AHEAD
ALTERNATE
AMERICAN MATION CTANDO

BEGINNING OF VERTICAL CURVE BEGINNING VERTICAL CURVE ELEVATION BEGINNING VERTICAL CURVE STATION

CAST IN PLACE/ CAST IRON PIPE
CAST IN PLACE CONCRETE PIPE
CONTROL JOINT/ CONSTRUCTION JOINT
CHECKERED
CLASS

CATCH BASIN CURB INLET/ CAST IRON

CLASS
CLEAR
CORRUGATED METAL PIPE
CLEANOUT/ COUNTY
COLUMN
CONCRETE

DROP INLET
DIAMETER
DIAGONAL
DIMENSION
DUCTILE IRON PIPE
DISTANCE
DIVERSION
DOWNSPOUT

EAST/ ELECTRICAL EXISTING

EASTING
EACH
END CURVE
END CURB RETURN
EACH FACE
EFFLUENT FEED LINE
EXISTING GROUND/ EXISTING GRADE
ELEVATION

FACE OF CONCRETE/ COLUMN/CURB FACE OF CONCRETE CURB FACE OF WALL FIRE PROTECTION FLUSH RETURN LINE FINISH SURFACE FOOTING

ONLY THE PROPERTY OF THE PROPE

IRRIGATION INDUSTRAL WASTE JUNCTION BOX CURVE COEFFICIENT LENSTH LATERAL LINEAL FOOT LOW POINT LIQUID PROPANE GAS LANDSCAPE LEFT LIGHT DITY

L LENGTH
LAT LATERAL
LF LINEAL FOOT
LP LOW POINT
LPG LIQUID PROF
LS LANDSCAPE
LT LEFT
LT DTY LIGHT DUTY

FOUNDATION FLARED END SECTION FINISH FLOOR FINISH GRADE FIRE HYDRANT

FIRE HYDRANT
FINISH/ FINISHED
FLANGED
FLOOR
FORCE MAIN
FACE OF

FUTURE

GALV GB GP GRD GRD GV HB HDPE HORIZ HP HT HV DTY HW ID IE

IN INT INV IP IRR IN JB K

AVERAGE BEGIN CURVE

AB ACP ADDL AFF AGG AH ALT

ANSI ARCH ASB BAYG BC BK BLDG BM BOF BOF BYCE BYCE BYCE CIP CIP CIP CIP CIP CJ

CKRD
CL
CLR
CMP
CO
CONC
CONST
CONT
CPP
CSP
CTR
CV
DB
DIA
DIAG
DIM
DIP
DIST
DIV
DS
DWG
E

(E) BACKERFEE GLEEVE COPT SERVE SEVEN EXCESS EXPLANT FOR THE F

MAXIMUM MATCH EXISTING GRADE MANUFACTURER MILLION GALLON MANHOLE

MINIMUM

MAXIMUM HIGH WATER LINE

MINIMUM
MISCELLANEOUS
MECHANICAL JOINT
NEW
NORTH
NATIONAL FIRE PROTECTION
ASSOCIATION
NOT IN CONTRACT

NOMINAL NOT TO SCALE ON CENTER OUTSIDE DIAMETER OUTSIDE FACE

ORIGINAL GROUND OVERHEAD

OVERFLOW RISER

ORIGINAL
OVERSIDE DRAIN
BEGINNING POINT OF CURVATURE
PORTLAND CEMENT CONCRETE /POINT
OF COMPOUND CURVE
PLANTER DRAIN

POINT OF INTERSECTION/ TANGENT-TANGENT INTERSECTION PROTECT IN PLACE

PROTECT IN PLACE
POST INDICATOR VALVE
POWER POLE
POINT OF REVERSE CURVATURE
PERFORATED SUBDRAIN
POINT OF TANGENT/ PRESSURE
TREATED

TREATED PUBLIC UTILITIES EASEMENT

REINFORCED CONCRETE PIPE RECYCLED WATER

SEE ARCHITECT'S DRAWINGS
SEE CIVIL DRAWINGS
SEC CIVIL DRAWINGS
STORM DRAIN
SEE ELECTRICAL DRAWINGS
SOULARE FEEL
SEE FIRE PROTECTION DRAWINGS
SOULARE FEEL
SIMILAR
SEE LANDSCAPE ARCHITECT'S
DRAWINGS
SPECIFICATION CAL DRAWINGS

SQUARE STAINLESS STEEL/ SANITARY SEWER SEE STRUCTURAL DRAWINGS/ SUBSURFACE DRAIN SEE SOILS REPORT

SEE SUILS STATION STANDARD STEEL STORMWATER POLLUTION PREVENTION

STORMWATER POLLUTION PRE PLAN STORMWATER MANAGEMENT SEE WASTEWATER DRAWINGS SYMMETRICAL TANGENT/ TELEPHONE TANGENT TELEPHONE TOP, AND BOTTOM TENDENDADY DENICH MADIV

TOP AND BOTTOM
TEMPORARY BENCH MARK
TOP OF CONCRETE
TOP OF CONCRETE
TOP OF GRATE
THICK
TOP OF GRATE
THICK
TOP OF BERM
TOE OF WALL
TOP OF FOOTING
TOP OF WALL
TOP OF PAYEMENT
TRANSTION

UNDERGROUND
UNLESS NOTED OTHERWISE
UNDER SEPARATE PERMIT
VERTICAL CURVE
VERTICAL
VERIFY IN FIELD
VINEYARD SUBDRAIN
WEST/ WATER
WITH

WITH'
WITHOUT
TREATED WATER
WATER FROM WELL
WALL BACK DRAIN
WASTEWATER
WELDED WIRE FABRIC
TRANSFORMER
YARD
YARDS
DITCH SIDE SLOPE

DITCH SIDE SLOPE

P:\2021\2021038 LAKE COUNTY CULTIVATION\CAD\CIVIL\HIGHLAND FARMS\PHASE 2\21038-HF-C1.0-C1,2-NOTES.DWG

TRANSITION TYPICAL UTILITY CHASE UNDERGROUND

SPECIFICATION
SEE PLUMBING DRAWINGS
SQUARE

PROCESS WASTEWATER

RELATIVE COMPACTION

REDUCER/ REDUCING

RIGHT OF WAY

SOUTH/ SLOPE SEE ARCHITECT'S DRAWINGS

RAINWATER RAINWATER LEADER

REDWOOD QUALIFIED SWPPP PRACTITIONER

RADIUS

POLYVINYL CHLORIDE/ POINT OF VERTICAL CURVATURE POINT OF VERTICAL INTERSECTION

MAX MEG MFR MG MH MHWL MIN MISC MJ (N) N NFPA

PD Pl

PUE PVC

SMD SPEC SPD SQ SS SSD

SSR STA STD STL SWPI

- ALL WORK SHALL CONFORM TO THE LATEST EDITION OF THE CALIFORNIA BUILDING CODE AND/OR APPLICABLE COUNTY OF LAKE CODES, ORDINANCES, ZONING AND PLANNING LAWS, CALIFANS STANDARDS, AND THE PROJECT USE PERMIT CONDITIONS.
- ALL WORK SHALL BE IN COMPLIANCE WITH ALL APPLICABLE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (O.S.H.A.). STANDARDS AS SET FORTH BY THE FEDERAL DEPARTMENT OF LABOR AND/OR THE STATE OF CAUFORNA. THE CONTRACTOR SHALL SECURE A TRENCH PERMIT FROM THE CAUFORNA DIVISION OF INDUSTRIAL SAFETY PRIOR TO EXCAVATION OF ANY TRENCH OVER FIVE FEET DEPARTMENT.
- ALL ON-SITE SEWER, WATER AND GAS LINE CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS OF THE CALIFORNIA PLUMBING CODE, (C.P.C.) AND ALL APPLICABLE REGULATIONS OF THE COUNTY OF LAKE, AND COGNIZANT UTILITY COMPANIES.
- THE DRAWINGS SHALL NOT BE SCALED, ALL WORK SHALL BE GOVERNED BY THE DIMENSIONS SHOWN ON THE DRAWINGS. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS SHOWN AND BRING DISCREPANCIES TO THE ATTENTION OF THE ENGINEER PRIOR TO PROCEEDING WITH THE WORK.
- THIS DRAWING DOES NOT REPRESENT A BOUNDARY SURVEY. PROPERTY LINES HAVE BEEN PLOTTED FOR INFORMATIONAL PURPOSES ONLY AND ARE APPROXIMATE.
- CONTRACTOR SHALL SECURE LETTERS OF PERMISSION FROM ADJACENT LANDOWNERS BEFORE ENTERING SUCH PROPERTIES.
- THE LOCAL JURISDICTION HAVING AUTHORITY SHALL BE NOTIFIED 72 HOURS PRIOR TO STARTING ANY WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING THE JURISDICTION HAVING AUTHORITY INFORMED OF THE CONSTRUCTION SCHEDULE.
- CONTRACTOR SHALL PROVIDE 72 HOURS ADVANCE NOTICE TO THE ENGINEER FOR REQUESTED INSPECTIONS.
- 10. THE OWNER SHALL PROVIDE FOR NECESSARY MATERIAL AND SOILS TESTING AND OBSERVATION. THE CONTRACTOR SHALL PROVIDE 72 HOURS MINIMUM NOTICE PRIOR TO REQUIRED OBSERVATION OR TESTING.
- 11. THE LAKE COUNTY DEPARTMENT OF PLANNING, BUILDING & ENVIRONMENTAL SERVICES (PBES), DEPARTMENT OF PUBLIC WORKS, THE COUNTY FIRE DEPARTMENT, AND CALTRANS SHALL BE NOTIFIED 72 HOURS PRIOR TO STARTING ANY WORK, THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING THESE AGENCIES INFORMED OF THE CONSTRUCTION SCHEDULE.
- CONTRACTOR SHALL CONTACT THE LAKE COUNTY ENGINEER'S OFFICE TO ARRANGE A PRE-PROJECT CONFERENCE FOR THE PURPOSE OF REVIEWING JOB REQUIREMENTS AND COUNTY PROCEDURES
- 13. CONTRACTOR SHALL NOTIFY THE LAKE COUNTY ENGINEER AT LEAST 72 HOURS IN ADVANCE OF THE COMMENCEMENT OF ANY PART OF THE WORK.
- MATERIALS AND WORKMANSHIP SHALL CONFORM TO ADOPTED LAKE COUNTY SUBDIVISION ROAD AND STREET STANDARDS AND CALTRANS STANDARDS.
- 15. THE LOCATIONS OF EXISTING UNDERGROUND UILLIES AS SHOWN ON THE PLAN ARE BASED ON THE INFORMATION AVAILABLE; IN GENERAL THE EXISTING UTILITIES SHOWN ARE BASED ON THE INFORMATION AVAILABLE; IN GENERAL THE EXISTING UTILITIES SHOWN ARE BASED AND ARE SHOWN ARE BASED OF THE ACCURACY OF THE INFORMATION SHOWN, OR THE INAQUERTED OWNSSIGN OF ANY SUCH INFORMATION, CONTRACTOR SHALL VERIFY LOCATION OF DESTING UTILITIES, CONFLICTS ON THE INFORMATION SHOWN ARE SHOWN, OR THE INAQUERTED OWNSSIGN OF ANY SUCH INFORMATION, CONTRACTOR SHALL VERIFY LOCATION OF DESTING UTILITIES CONFLICTS ON THE ACCURACY OF THE ACCURAC

**EXISTING** 

GENERAL/ CIVIL LEGEND

(F/FLFC)

		ELECTRICA	NL.		$\rightarrow$	=	CULVERT	
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(G		GAS			À i	1 <>	PIV, CV, FDC	:
(IRF		IRRIGATION	N .		D	М	VALVE	
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(PW		PROCESS	WASTE	WATER	7	0	CONTOUR	
(SD		STORM D	RAIN			-	E/SWALE/DI	TCH
(SS		SANITARY	SEWE	₹			VINEROW	
(I/I		TELEPHON	IE UN	E			VINEYARD LIN	MITS
(W	)	WATER LI	NE		——х—	—х—	FENCE	
		LEACHLINE	Ξ				PROPERTY LI	NE
		LEACHFIEL	.D OU	TLINE			EASEMENT	
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	0	MANHOLE	OR S	UMP	∡ E	LEV	CONTROL PO	INT
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(FP		FIRE PRO	TECTIO	N	2	2:1	GRADE	
(IRF		GAS					(2 HORIZ TO 1	
(OF		IRRIGATION			2%	S=0.02	SLOPE (PERCI	ENT)
OH (PW		OVERHEAD			232	.00	ELEVATION	
(SE		PROCESS		WATER	- <del>-</del> -		TOP OF CUT	
(SS		STORM D				23	EMBANKMENT	
(T/T)		SANITARY					TOE OF FILL	
(W		TELEPHON		E	-=		GRADE BREA	K
		WATER LI	-		7	·	CONTOUR	
		LEACHLINE				_	[/SWALE/DI	TCH
	•••••	LEACHFIEL	D OU	TLINE	——x—	—-х—	FENCE	
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$^{\&}$ $^{\wedge}$ $^{\wedge}$	PIV, CV, FI	DC	M	GATE VALV				
•	SPRINKLER		ÞΦ	BALL VALVI	E	હિ	ACCESSIBLE	PARKING
<b>o</b>	THRUSTBLO	ск	DKI	BUTTERFLY	VALVE	121	ACCESSIBLE	DATH OF
ŧ	HOSE BIBE		001	PLUG VALV	ε -		TRAVEL	FAIR OF

## GENERAL NOTES (CONTINUED)

- UNDERGROUND SERVICE ALERT (U.S.A.) CALL TOLL FREE (800) 642-2444 AT LEAST 48
  HOURS PRIOR TO EXCAVATION.
- 17. THE CONTRACTOR SHALL NOTIFY P.G.&E. AND AT&T PRIOR TO STARTING ANY WORK. CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING THESE UTILITY COMPANIES INFO OF THE CONSTRUCTION SCHEDULE.
- 18. THE CONTRACTOR SHALL SECURE ALL NECESSARY PERMITS AND INSPECTIONS FROM LAKE COUNTY. THE OWNER WILL MAKE APPLICATIONS AND PAY ALL PERMIT FEES.
- CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING EXISTING FACILITIES AND IMPROVEMENTS FROM DAMAGE RESULTING FROM CONSTRUCTION WORK. ANY DAMAGE SHALL BE REPARED AT THE CONTRACTOR'S EXPENSE.
- 20. CONTRACTOR SHALL COORDINATE CONSTRUCTION WORK WITH EXISTING FACILITIES REQUIREMENTS & OPERATIONS. CONTRACTOR SHALL BE PREPARED TO PHASE PORTIONS OF THE WORK SO THAT IT DOES NOT INTERFERE WITH OR INHIBIT EXISTING FACILITY OPERATIONS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING ACCESS TO THE SITE AND ADJOINING OPERATIONS OPEN TO THE OWNERS AT ALL TIMES.
- 22. OBTAINING OF CONSTRUCTION WATER AND UTILITIES SHALL BE COORDINATED WITH THE OWNER'S REPRESENTATIVE(S).
- 23. WORK DONE WITHIN THE COUNTY RIGHT-OF-WAY SHALL BE DONE UNDER A COUNTY ENCROACHMENT PERMIT.
- 24. WORK DONE WITHIN THE STATE RIGHT-OF-WAY SHALL BE DONE UNDER A CALTRANS ENCROACHMENT PERMIT.
- ALL EXISTING VALVE AND METER BOXES, MANHOLES AND CLEANOUTS SHALL BE RAISED TO NEW GRADE AS REQUIRED.
- ALL EXISTING FENCES AND GATES AT THE SITE SHALL BE LOCATED, PROTECTED AND MAINTAINED AT ALL TIMES.
- 27. ON-SITE GRADING SHALL NOT INHIBIT OFF-SITE DRAINAGE.
- 28. THE SCREENED CONTOURS AND TOPOGRAPHIC INFORMATION ON THESE DRAWINGS REPRESENT THE APPROXIMATE SURFACE CONDITIONS TO BE FOUND AT THE PROJECT LOCATION AS OF FEBRUARY 2021. THIS INFORMATION HAS BEEN FURNISHED BY CONSER LAND SURVEYING. FOR THE BASIS OF ELEVATIONS, SEE "CONTROL" REFERENCE ON THIS
- 29. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR SOIL CONDITIONS IN THE AREA OF CONSTRUCTION OPERATIONS. ALL WORK SHALL CONFORM TO THE RECOMMENDATIONS OF THE PROJECT GEOTECHNICAL ENGINEER.
- 30. SUBSTITUTIONS FOR MATERIALS OR EQUIPMENT INDICATED ON THE CONTRACT DRAWINGS SHALL BE REVIEWED BY THE ENGINEER. THE ENGINEER ASSUMES NO RESPONSIBILITY WORK AFFECTED BY SUTH CHANGES ACCOMPUSHED WITHOUT ENGINEER'S REVIEW.
- 31. AS THE RESPONSIBILITY FOR THE ENGINEERING DESIGN WORK DEPICTED ON THESE DRAWNOS RESTS WITH THE FIRM OF SUMMIT ENGINEERING, INC., NO CHANGES ARE T MADE TO THE WORK DURING OR PRIOR TO CONSTRUCTION WITHOUT THE EXPRESSED WRITTEN PERMISSION OR ACKNOWLEDGMENT OF SUMMIT ENGINEERING, INC.
- 33. REMOVE ONLY THOSE TREES THAT ARE NECESSARY TO CLEAR THE NEW CONSTRUCTION. NO TREE SHALL BE REMOVED WITHOUT PRIOR REVIEW WITH THE ENGINEER.
- 34. TREE BRANCHES SHALL BE PRUNED TO PROVIDE A MINIMUM VERTICAL CLEARANCE OF 16 FEET MEASURED FROM ROAD SUBGRADE. PAINT ALL BRANCH CUTS 4 INCHES IN DIAMETER AND LARGER WITH A TREE SEAL COMPOUND.
- 35. CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, EQUIPMENT, TOOLS AND OTHER SERVICES NECESSARY FOR PROPER EXECUTION OF THIS CONTRACT.
- 36. THE CONTRACTOR SHALL PROVIDE THE OWNER, AS A CONDITION OF COMPLETION AND RECEIPT OF FINAL PAYMENT, A WRITTEN GUARANTEE COVERING ALL MATERIALS AND WORKMANSHIP FURNISHED AND PEFFORMED FOR THIS WORK AGAINST DEFEOTS FOR A PERIOD OF ONE (1) YEAR AFTER THE DATE OF FILING THE NOTICE OF COMPLETION.
- 37. THE CONTRACTOR SHALL BE RESPONSIBLE FOR A DAILY RECORD OF "AS BUILLT" CONDITIONS THAT DIFFER FROM THE ORIGINAL DRAWNIGS. THE CONTRACTOR WILL BE PROVIDED WITH A SET OF REPRODUCIBLE DRAWNIGS ON WHICH THE "AS BUILT" CONDITIONS SHALL BE RECORDED. THE "AS BUILT" DRAWNIG SKONED AND DATED) SHALL BE FURNISHED TO THE WORK AND PROBOT OF THAM, PARMENT.
- 36. CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING MONUMENTS AND OTHER SURVEY MARKERS. ANY AT-RISK MONUMENTS OF MARKERS SHALL BE IDENTIFIED BY A PRE-CONSTRUCTION CONNER RECORD SUBMITTED TO THE COUNTY SURVEYOR PRIOR TO SHALL BE PEPPARED AS NECEDO TO REPRETUATE MONUMENT LOCATIONS THAT ARE AT RISK DUE TO PROJECT ACTIVITIES. ALL WORK TO BE PERFORMED BY A LOCKED AND SURVEYOR. MONUMENTS AND MARKERS DESTROYED DURING CONSTRUCTION SHALL BE REPLACED SUBJECT TO THE PROVISIONS GUTUARED ADOVE AT THE CONTRACTOR'S DEPENSE.

UTILITY STRUCTURE TABLE

HEAVY DUTY GRATE

HEAVY DUTY GRATE

HEAVY DUTY CRATE

LIGHT DUTY GRATE

GROUT FLOWLINE TRANSITION AND PIPE PENETRATIONS FOR ALL CONCRETE DRAINAGE STRUCTURES, SEE 2/C9.1

WHERE THE ADJACENT PAVED SURFACE IS SLOPING GREATER THAN 5%, THE TOP OF THE DRAINAGE STRUCTURE SHALL BE SLOPED TO MATCH THE ADJACENT GRADE.

3. ALL INLETS TO BE MARKED "NO DUMPING — DRAINS TO STREAM" AND "NO TIRE BASURA DESAGUA AL ARROYO" OR EQUIVALENT SPANISH TRANSLATION.

4. COVER/GRATE CLASSIFICATION SHALL BE DESIGNED TO MEET ANSI A112.21.1M LOADING CLASSIFICATIONS IN A STATIC CONDITION.

COVER/GRATE REMARKS

2 SIDE INLETS

1 SIDE INLET

NO.

DI #1

DI #2-6

DI #7

NOTES:

OR #1A, 1B

MODEL NO.\*

CB1818

CB1212

CR1818

CB1818

\*OLDCASTLE PRECAST CONCRETE GROUP MODEL NUMBER

# UTILITY NOTES

- ALL EXISTING UTILITIES TO REMAIN IN THE WORK AREA SHALL BE PROTECTED DURING CONSTRUCTION ACTIVITIES (UNO).
- ALL WORK SHALL CONFORM TO THE LATEST APPLICABLE LAKE COUNTY CODES, ORDINANCES ZONING AND PLANNING LAWS INCLUDING THE LATEST ADOPTED EDITION OF THE CALIFORNIA PLUMBING CODE.
- SEE ELECTRICAL DRAWINGS FOR LOCATION OF POWER AND CONTROL UTILITIES. COORDINATE INSTALLATION OF THOSE UTILITIES WITH THOSE SHOWN HERE.
- 4. SEE PLUMBING/STRUCTURAL DRAWINGS FOR CONTINUATION OF UTILITY LINES INTO BUILDINGS, CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING LOCATION OF UTILITY CONNECTIONS TO STRUCTURES WITH ARCHITECTURAL, PLUMBING AND STRUCTURAL DRAWINGS
- WHERE POSSIBLE AND WHERE SEPARATION STANDARDS CAN BE MET, UTILITIES CAN BE INSTALLED IN COMMON TRENCHES. THE CONTRACTOR SHALL VERIFY BEDDING AND BACKFILL DETAILS WITH THE ENGINEER WHERE COMMON TRENCHING IS DESIRED.
- CONTRACTOR SHALL EXPOSE, BY POTHOLING, AND VERIFY LOCATION AND ELEVATION OF EXISTING UTILITIES, INCLUDING STORM DRAINS, SANITARY SEWERS AND WATER LINES BEFORE ORDERING MATERIALS AND/OR CONSTRUCTING NEW FACILITIES.
- ALL TRENCHES AND EXCAVATIONS SHALL BE CONSTRUCTED IN STRICT COMPLIANCE WITH THE APPLICABLE SECTIONS OF CALIFORNIA AND FEDERAL OS.H.A. REQUIREMENTS AND OTHER APPLICABLE SAFETY ORDINANCES. CONTRACTOR SHALL BEAR FULL RESPONSIBILITY FOR TRENCH SHORING DESIGN AND INSTALLATION. SEE GENERAL NOTES.

ELINE	DEPTH OF BURY:	
A.	GRAVITY LINES	TO ELEV NOTED, 1.5' MIN IN LANDSCAPED
		AREAS 2.0' MIN IN ALL OTHER AREAS (UNO)
B.	FIRE PROTECTION/WATER	3' MINIMUM (UNO)
Ċ.	FORCE MAINS	2.5' MINIMUM (UNO)
Ď.	GAS	2.5' MINIMUM (UNO)
Ē.	ELECTRIC	3' MINIMUM (UNO) SEE ELECTRICAL DRAWINGS
E.	ELECTRIC	3' MINIMUM (UNO) SEE ELECTRICAL DRAWINGS

- 8. SLOPE FOR GRAVITY LINES (SD & PW) = 0.02 MIN (UNO), (SS) = 0.02 MIN (UNO)
- GRANTY PW, SS, SD LINES AND PRESSURE FORCE MAINS SHALL BE CONSTRUCTED USING MANUPACTURER'S STANDARD FITTINGS FOR THE PIPE SYSTEM SPECIFIED. FITTINGS USED SHALL PROVIDE FOR SMOOTH, UNIFORM TRANSITIONS IN SIZE, DIRECTION AND WHEN PIPES JOIN. THE USE OF 90' BENDS AND TEES WILL NOT BE ALLOWED UNLESS OTHERWISE SHOWN ON THE DRAWNOS.
- PVC WATER SYSTEM MAINS AND OTHER PRESSURE FORCE MAINS SHALL HAVE LOCATING WIRE INSTALLED IN THE TRENCH ABOVE THE PIPE.
- CONTRACTOR SHALL COORDINATE LOCATION OF UTILITY TRENCH WITH STRUCTURAL DRAWINGS TO ENSURE THAT UTILITY TRENCHES ARE LOCATED OUTSIDE THE ZONE OF INFLUENCE.
- 12. ALL UTILITY CROSSINGS ARE TO HAVE A MINIMUM OF 6" SEPARATION AS MEASURED FROM THE OUTSIDE EDGE OF ALL PIPES. IF MINIMUM CROSSING SEPARATION CANNOT BE MET, CONSULT ENGINEER REGARDING REDUCED CLEARANCE OPTIONS INCLUDING CONCRETE ENCASEMENT OF CROSSING.
- 13, WEINDER A PUBLIC WITER MAN IS TO GROSS A CAMTARY SERVICE FORCE MAN, THE MEDICANTER MAN SHALL BE INSTITULED, ANNIMAL OF 1 FOOT ABOVE THE SERVER HE WEITER PROSSIBLE AND SHALL BE OF DICTULE IRON OR AWAY C-400 CLASS 200 PMC WITH NO JOINTS WITHIN 10 FEET ON EACH SIDE OF THE FORCE MAN, IT THE PUBLIC WATER MAN CROSSES A SERVE LINE CLOSER THAN 1 FOOT, THE WITER MAN SHALL BE COMPLETELY ENASED IN CLASS B CONCRETE FOR THE SAME DISTANCE SPECIFIED ABOVE.
- 14. THE HORIZONTAL DISTANCE BETWEEN PUBLIC PRESSURE WATER MAINS AND SANITARY SEWER LINES SHALL BE AT LEAST 10'.
- 15. IF THERE IS A SITUATION WHERE A SANITARY SEWER LINE MUST CROSS ABOVE A PUBLIC WATER LINE, THE DESIGN OF SUCH A CROSSING MUST CONFORM TO STATE AND LOCAL HEALTH LAWS AND BE APPOYED BY BOTH THE COUNTY PUBLIC HEALTH SERVICE DEPARTMENT AND STATE HEALTH DEPARTMENT.
- 16. NON-PUBLIC WATER (W), SEWER (SS) AND/OR PROCESS WASTE (PW) LINES MAY BE INSTALLED IN A COMMON TRENCH WHERE THE W LINE IS ABOVE THE SS OR PW LINES AND A MINIMUM OF 1 FOOT HORIZONTAL AND VERTICAL SEPARATION DEFINEST THE WAND SS OR PW LINES IS MAINTAINED. WHERE W AND SS OR PW LINES CROSS, THE SAME SEPARATION DISTANCES SHALL APPLY.
- 17. ALL FORCE MAINS ENTERING STRUCTURES AND/OR BOXES SHALL BE FITTED WITH A 45' BEND INSIDE THE BOX. THE FITTING SHALL BE PLACED SO THE OUTLET IS DIRECTED
- 18. SEE BUILDING PLANS FOR THE LOCATION OF DOWNSPOUTS AND/OR ROOF DRAIN STUB-OUTS. THESE DOWNSPOUTS AND/OR ROOF DRAIN STUB-OUTS SHALL BE CONNECTED TO THE ORDER TOWNS PLAN IS TO THE OFFICE THAN PLAN IS THE OFFICE TO INSTRUCT THE OFFICE THAN THE LOCATION OF DOWNSPOUTS OR ROOF DRAIN STUB-OUT PRIOR TO INSTALLING THE STORM REAN PIPMS ONDOIN ON THESE DRAININGS. THE ROOF DRAIN STITE US AND OTHER OSSTRUCTIONS AND OTHER OSSTRUCTIONS.
- WHERE A ROOF DRAIN IS SHOWN CONNECTING TO A DROP INLET, IT SHALL CONNECT AT 6' ABOVE THE INVERT ELEVATION OF THE DROP INLET IF POSSIBLE.
- 20. ALI TES, BENDS, PLUSS, AND OTHER FITTINGS & APPURTENMES ON ALL PRESSURE PIPMS GREATER THAN 3' IN SIZE WITH MECHANICAL JOINT, PUSH ON OR OTHER FLEXIBLE FITTINGS SHALL BE ANADORED BY THE USE OF THRISTS BLOCKS, THREIT ANDORS OF OWNER OF THE SUPPORTING SOCIAL SHALL NOT EXCEED THAT ALLOWAGE FOR THE SOIL INVOLVED (SEE SOILS REPORT), REQUIRED THRUST BLOCK BEARING AREAS SHALL BE CALCULATED BY THE CONTRACTION IN ACCORDANCE WITH THE DETAILS ON THE DRAWNINGS AND NEPAE STANDARDS.
- ALL BURIED METAL VALVES AND FITTINGS REQUIRE PROTECTIVE COATINGS, SEE SPECIFICATIONS.
- 22. PIPE BEDDING AND BLOCKILL FOR STORM IRON PIPE SHALL INJUDIE AN 127 THEKE MIPERVOUS CAN OR SLIKHT CEMBER PLUS COMPACTED IN THE TERROR AND REGIOND THE WHERE THE SLOPE OF OTHER UTILITY PIPES EXCEED 10%. THE SAME PLUS SHALL BE INSTALLED IN THE TERROR AND ABOUND THE PIPE AT THE BEGINNING AND END OF THE PIPE AND AT 50 INTERVALS DELIVED.
- ALL NON-STORM DRAIN UTILITIES ARE SHOWN FOR REFERENCE ONLY AND SHALL BE COVERED UNDER SEPARATE PERMIT(S).

### SHEET NUMBERING GUIDE

SHEET No.	TYPICAL CONTENT
C1.X	TITLE SHEET, NOTES & GENERAL INFORMATION SHEETS
C2.X	OVERALL SITE PLANS, EXISTING CONDITIONS AND DEMOLITION PLA

- C3.X LAYOUT AND HORIZONTAL CONTROL PLANS C4.X GRADING PLANS (OR COMBINED PLANS)
- C5.X LITHLITY PLANS
- STORMWATER MANAGEMENT PLANS C6.X
- PROFILE DRAWINGS
- CRY SECTIONS
- C9.X DETAILS

CAP OR PLUG

CONNECTION POINT D REDUCER/ENLARGER

000 CLEANOUT

DOWNSPOUT

RIPRAP ENERGY DISSIPATOR

OVERLAND RELEASE ROUTE

**(3**>

# LAKE COUNTY EROSION AND SEDIMENT CONTROL NOTES

- EROSION & SEDIMENT CONTROL MEASURES AS INDICATED ON THE PLANS SHALL INCLUDE, BUT NOT BE LIMITED, TO THE FOLLOWING:
- A. STABILIZED CONSTRUCTION ENTRANCE AND EXITS TO REDUCE TRACKING OF MUD AND DIRT ONTO PUBLIC ROADS BY CONSTRUCTION VEHICLES.
- B. EARTH BERMS TO DIVERT RUN-OFF AWAY FROM THE WORK AREA OR TO CONTAIN RUN-OFF WITHIN A SPECIFIED AREA.
- C. FIBER ROLLS OR SILT FENCES BELOW THE TOE OF EXPOSED AND ERODIBLE SLOPES, DOWNSLOPE OF EXPOSED SOIL AREAS, AND AS INDICATED ON THE PLANS.
- D. COBBLE OR RIPRAP PROTECTION FOR STORM DRAIN PIPE OUTLETS AND DRAINAGE DITCHES.
- E. ROCK OR FIBER ROLL CHECK DAMS TO REDUCE VELOCITY OF CONCENTRATED FLOW AND ENCOURAGE SEDIMENT SETTLING.
- F. EARTH BERM SEDIMENT TRAPS WITH ROCK FILTER OUTLET, TO ALLOW SEDIMENT IN COLLECTED SW TO SETTLE OUT AND BE FILTERED.
- G. DROP INLET GRAVEL FILTERS TO PROTECT STORM DRAIN INLETS THAT ARE SUBJECT TO RUN-OFF FROM CONSTRUCTION ACTIVITIES.
- H. PROTECTION OF CUT OR FILL SLOPES, BORROW AREAS AND SOIL STOCKPILE AREAS WITH IMPERMEABLE COVER IF OTHER MEASURES ARE NOT IN PLACE.
- MOISTURE CONDITIONING AND TRACKWALKING OF ALL FILL SLOPES AND HORIZONTAL SURFACES DISTURBED BY CONSTRUCTION OPERATIONS WITH A HEAVY BULLDOZER TO PROVIDE A FIRM AND UNIFORMLY ROUGHENED SURFACE, FREE OF LOOSE MATERIAL.
- 1.1 MATERIALS: SEED MIX AS REQUIRED BY LAKE COUNTY-

a. SEED SPECIES	% OF MIX
BLANDO BROME	78 OF MIL
ZORRO ANNUAL FESCUE	8
LANA VETCH	12
ROSE CLOVER	15
CRIMSON CLOVER	15
SUB CLOVER	10
APPLIED AT A RATE OF 37 LBS/ACRE	

b. MULCH FIBER

750 LBS/ACRE

c. FERTILIZER OPTIONS 12-12-12 15-15-15 16-20-20

300 LBS/ACRE 300 LBS/ACRE

d. STRAW (80% COVERAGE)

#### 1.2. APPLICATIONS:

g. STRAW MULCH AND HYDROSFED

COMBINED APPLICATION OF SEED, FERTILIZER AND STRAW SHALL BE APPLIED TO ALL CUT AND FILL SLOPES AND DISTURBED AREAS WITH SLOPES GREATER THAN 15%.

EXCEPTIONS
... INTERIOR SLOPES OF PONDS AND WETLAND CELLS
... INTERIOR SLOPES OF "\" DITCHES
... LANDSCAPED AREA TO BE ESTABLISHED PRIOR TO OCTOBER 15TH

COMBINED APPLICATION OF SEED, MULCH FIBER AND FERTILIZER ON ALL DISTURBED AREAS WITH SLOPES LESS THAN 15%.

- EXCEPTIONS
- . ROADWAY SURFACES
- K. OTHER STORMWATER MANAGEMENT MEASURES SHALL BE UTILIZED AS FIELD CONDITIONS REQUIRE.

#### REQUIREMENTS:

- A. CONTRACTOR SHALL INSTALL BEST MANAGEMENT PRACTICES (BMP'S) WITH THE INTENT OF PREVENTING SEDIMENT OR OTHER CONTAMINANTS FROM LEAVING THE SITE AND ENTERING DRAINAGE WAYS.
- B. CONTRACTOR SHALL MINIMIZE DISTURBANCES OF EXISTING SOILS OUTSIDE OF THE LIMITS OF THE WORK AREA AND AS INDICATED ON PLAN.
- C. (IF SWPPP IS REQUIRED) A NOTICE OF INTENT SHALL BE FILED BY THE OWNER FOR THIS PROJECT PER NPDES REQUIREMENTS. CONTRACTOR SHALL COMPLY WITH ALL NPDES GENERAL PERMIT NO. CASOGOOO2 AND SWPPP REQUIREMENTS.
- D. INSTALLATION OF ALL BMP'S SHALL BE COMPLETED PRIOR TO OCTOBER 15TH OR BEFORE THE START OF CONSTRUCTION IN ACCORDANCE WITH THE APPROVED STORMWATER WANAGEMENT PLAN, ALL BMP'S SHALL BE WANTANDED FOR THE ENTIRE PERIOD BETWEEN OCTOBER 15TH AND APRIL 15TH OF EACH YEAR WHERE CONSTRUCTION ACTIVITY OCCURS ON THE SITE.
- E. WHEN TEMPORARY MEASURES HAVE SERVED THEIR INTENDED PURPOSE AND THE CONTRIBUTING DRAINGE AREA HAS BEEN PROPERTY STABILIZED, THE MEASURES CAN BE REMOVED AND ANY SEDIMENT DEPOSITS DISPOSED OF ACCORDING TO LOCAL, STATE AND FEDERAL, ORDINANCES, DISPOSAL OR REUSE OF SEDIMENT ON-SITE AS FILL MUST HAVE THE APPROVAL OF THE SOLIS EMORRES.
- F. STORMWATER MANAGEMENT MEASURES SHOWN ON THE PLAN THAT INTERFERE WITH THE WORK MAY BE RELOCATED OR MODIFIED WITH APPROVAL OF LOCAL GOVERNING AGENCY AND/OR ENGINEER.
- G. AFTER UTILITY TRENCHES ARE BACKFILLED AND COMPACTED AND PRIOR TO PERMANENT RESURFACING, THE SURFACES OVER THE UTILITY TRENCH SHALL BE SURFACED WITH TEMPORARY ASPHALT PAVING OR BE MOUNDED TO PREVENT CHANNELING OF WATER IN THE TIRNCH AREA.
- INSTALLATION OF GRAVEL ROADWAYS, WALKWAYS, OR OTHER MEASURES SHALL BE UTILIZED IN ADDITION TO WATER OR OTHER DUST PALLATIVES TO CONTROL AND PREVENT BLOWING DUST OR MINIMIZE THE CREATION OF DUST.

A. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE OF BMP'S AT ALL TIMES DURING THE CONSTRUCTION PERIOD. ALL BMP'S SHALL BE INSPECTED AND REPAIRED AS REQUIRED AT THE END OF EACH WORKING DAY.

### LAKE COUNTY EROSION AND SEDIMENT CONTROL NOTES (CONTINUED)

- B. AFTER THE FIRST HEAVY RAIN OF THE SEASON, THE BMP'S SHALL BE INSPECTED FOR DEFICIENCIES. FIBER ROLLS, DITCHES, ROCK RIPRAP OR OTHER BMP'S WILL BE ADDED AS NECESSARY TO ENSURE THAT WATER POLLUTION IS MINIMIZED TO THE MAXIMUM EXTENT PRACTICAL.
- C. AFTER HEAVY RAINS, THE SITE SHALL BE INSPECTED FOR EXCESSIVE EROSION AND ERODED AREAS REPAIRED AS REQUIRED BY ADDING RIPRAP OR COBBLE TO PREVENT FURTHER EROSION.
- D. SEDIMENT IS TO BE REMOVED FROM SEDIMENT TRAPS WHEN SEDIMENT LEVEL REACHES
- E. DURING THE RAINY SEASON, ALL PAVED SURFACES SHALL BE MAINTAINED FREE OF EARTH MATERIAL AND DEBRIS. WHEN THE WORK REQUIRES THAT MATERIALS BE PLACED UPON PAVED SURFACES, APPROPRIATE MEASURES SHALL BE TAKEN TO PROTECT THE MATERIAL FROM ERCOING.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANUP OF MUD AND DEBRIS CARRIED ONTO SURROUNDING PROPERTIES, STREETS AND ROADS AS A RESULT OF CONSTRUCTION ACTIVITY ON THE SITE TO THE SATISFACTION OF THE LOCAL GOVERNING AGENCY. ANY MUD THAT IS TRACKED ONTO PUBLIC STREETS SHALL BE REMOVED THAT SAME DAY.
- 4. RFFFRENCE LATEST EDITION OF BMP HANDBOOK FOR FURTHER DETAILS ON BMP'S.
- 5. THIS PLAN WILL NOT COVER ALL THE SITUATIONS THAT MAY ARISE DURING CONSTRUCTION.
  ADJUSTMENTS TO THE PLAN MAY BE MADE AS CONDITIONS WARRANT WITH APPROVAL OF
  THE LOCAL GOVERNING AGENCY.
- 6. SEE CONSTRUCTION SWPPP FOR INSTALLATION AND MAINTENANCE GUIDELINES (ONLY IF

A. WATER AND/OR DUST PALLATIVES SHALL BE APPLIED IN SUFFICIENT QUANTITIES DURING GRADING AND OTHER GROUND DISTURBING ACTIVITIES ON-SIFE TO MININIZE THE AMOUNT OF DUST PRODUCED, OUTDOOR CONSTRUCTION ACTIVITIES SHALL NOT OCCUR WHEN AVERAGE WIND SPECIDS EXCEED 20 MPH.

#### 8. AIR QUALITY

- A. DURING ALL CONSTRUCTION ACTIVITIES THE PERMITTEE SHALL COMPLY WITH THE MOST CURRENT VERSION OF BAADM BASIC CONSTRUCTION BEST MANAGEMENT PRACTICES INCLUDING BUT NOT LIMITED TO THE FOLLOWING, AS APPLICABLE:
- 8.1. POST A PUBLICLY VISIBLE SIGN WITH THE TELEPHONE NUMBER AND PERSON TO CONTACT AT THE LEAD AGENCY REGARDING DUST COMPLAINTS. THE BAAQMO'S PHONE NUMBER SHALL ALSO BE VISIBLE.
- 8.2. WATER ALL EXPOSED SURFACES (E.G., PARKING AREAS, STAGING AREAS, SOIL PILES, GRADING AREAS, AND UNPAVED ACCESS ROADS) TWO TIMES PER DAY.
- 8.3. COVER ALL HAUL TRUCKS TRANSPORTING SOIL, SAND, OR OTHER LOOSE MATERIAL OFF-SITE.
- 8.5. ALL VEHICLE SPEEDS ON UNPAVED ROADS SHALL BE LIMITED TO 15 MPH.
- 8.6. ALL ROADWAYS, DRIVEWAYS, AND SIDEWALKS TO BE PAVED SHALL BE COMPLETED AS SOON AS POSSIBLE. BUILDING PADS ISHALL BE LAID AS SOON AS POSSIBLE AFTER GRADING UNLESS SEEDING OR SOIL BINDERS ARE USED.
- 8.7. IDLING TIMES SHALL BE MINIMIZED EITHER BY SHUTTING OFF EQUIPMENT WHEN NOT IN USE OR REDUCING THE MAXIMUM IDLING TIME TO FIVE (5) MINUTES (AS REQUIRED BY STATE REGULATIONS). CLEAR SIGNAGE SHALL BE PROVIDED FOR CONSTRU
- 8.8. ALL CONSTRUCTION EQUIPMENT SHALL BE MANTANED AND PROPERLY THESE IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS. ALL EQUIPMENT SHALL BE CHEEGED BY A CERTIFIED VISSIE EMISSIONS EVALUATOR. ANY PORTRAILE ENGINES GREATER THAN 50 HORSEPOWER OR ASSOCIATED EQUIPMENT OFERSITED WITHIN THE BANDON'S JUNISDICTION SHALL HAVE ETHER A PROPERTY OF THE PROPER FAQ HTTP://WWW.ARB.CA.GOV/

### 9. ARCHEOLOGICAL FINDING

A. IN THE EVENT THAT ARCHEOLOGICAL ARTIFACTS OR HUMAN REMAINS ARE DISCOVERED DURING CONSTRUCTION, WORK SHALL CEASE IN A 50-FOOT RUDIUS SURROUNDING THE AREA OF RECONSTRUCTION, WORK SHALL CEASE IN A 50-FOOT RUDIUS SURROUNDING THE AREA OF RECONSTRUCTION FOR THE PERMITTER OF HIRE A COULARIED, DISCOVERED AND TO DETERMINE IF ADDITIONAL MEASURES ARE REQUIRED. IF HEAVING AND THE PERMITTER OF ADDITIONAL MEASURES ARE REQUIRED, IF HUMAN REMAINS ARE DECONSTRUCTED UNDER PRODUCT OFFICIAL PROPERTY OF A STATE OF THE ARTIFACTS INCOME THE HAITED, AND THE LAKE COUNTY OFFICIAL PROPERTY OF THE ARTIFACTS OF THE HAITED, AND THE LAKE COUNTY OFFICIAL PROPERTY OF THE ARTIFACTS OF THE HAITED, AND THE LAKE COUNTY OFFICIAL PROPERTY OF THE ARTIFACTS OF THE

## MATERIAL SPECIFICATIONS

#### EROSION AND SEDIMENT CONTROL:

ALL MATERIALS AND COMPONENTS SHALL CONFORM TO THE REQUIREMENTS OF THE RWGCB FIELD MANUAL, THE CASCA STORMWATER BEST MANAGEMENT PRACTICES HANDBOOK, SWPPP, THESE SPECIFICATIONS AND AS INDICATED ON THE CONSTRUCTION DRAWING.

- PRECAST CONCRETE PARKING BARS: 36 INCH LONG; "FIBERAISED" OR APPROVED EQUAL. ADHESIVE SHALL BE SUITABLE FOR SECURING MATERIALS TO ASPHALT PAVING.
- 2. FENCING: 6 FEET HIGH CONSTRUCTED OF 8 FEET HEAVY DUTY "1" BAR POSTS AT 8 FEET ON CENTER, 4 FEET HIGH 6" X 6" ORD OALVANIZED 12 CAUGE MINIMUM FIELD FENCING WITH 2 STREAMS OF BARRESU WIRE ALTACHED TO THE TOP AT 10. COMPART POSTS, CAND DRAWNIGS ASS AND AB6 AS INDICATED ON THE DRAWNIGS, OR MATCH EXISTING WHERE APPLICABLE.
- ROCK RIPRAP: ANGULAR AND WELL GRADED ROCKS WITH AN AVERAGE DIAMETER 6 TO 15 NO-HES WITH APPROVINGELY 50 PERCENT BY WEIGHT BEING SMALLER THAN 12 INCHES IN DIAMETER, UNLESS OTHERWISE NOTED ON DEAVINGS, MAINIMUM APPRAITS TSECRIFE GRAVITO OF 2.5; MINIMUM DURRABUTY NICEX OF 50. ROCK ENCOUNTERED DURING SITE GRADING MAY BE UTILIZED AS APPROVED BY THE ENGINEER.
- 4. COBBLE: ANGULAR AND WELL GRADED ROCKS WITH AN AVERAGE DIAMETER OF 2 TO 6 INCHES WITH APPROXIMATELY 50 PERCENT BY WEIGHT BEING SMALLER THAN 4 INCHES IN DIAMETER. ROCK ENCOUNTERED DURING EXCAVATION MAY BE UTILIZED AS APPROVED BY THE ENGINEER.
- 5. GROUT: ONE PART OF PORTLAND CEMENT AND THREE PARTS SAND THOROUGHLY MIXED WITH WATER TO PRODUCE GROUT HAWING A THICK GREATY CONSISTENCY. THE MINIMAM AMOUNT OF WATER SHOULD BE USED TO PREVENT EXCESS SHRIMMAGE OF THE GROUT AFTER PLACEMENT. CEMENT SHALL CONFORM TO THE REQUIREMENTS OF ASSHTO MS. SAND SHALL CONFORM TO THE REQUIREMENTS OF ASSHTO MS.
- CONCRETE DITCH LINING: MATERIALS SHALL CONFORM TO THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS, SECTION 72-4.
- FILTER FABRIC: NONWOVEN POLYPROPYLENE; "MIRAFI 140N" BY TENCATE GEOSYNTHETICS NORTH AMERICA, OR EQUAL.

#### PAVING AND SURFACING:

ALL MATERIALS AND WORK SHALL BE IN CONFORMANCE WITH THE CALTRANS STANDARD SPECIFICATIONS. THE FOLLOWING REFERENCE PERTAIN TO THAT DOCUMENT.

- AGGREGATE BASE: ANGULAR, CRUSHED MATERIAL CONFORMING TO CLASS 2 REQUIREMENTS OF SECTION 26.
- TACK COAT: DILUTED SS-LH ASPHALTIC EMULSION OR UNDILUTED RS-1 EMULSION IN CONFORMANCE WITH SECTION 94.
- 3. ASPHALT PANNG: TYPE A ASPHALTIC CONCRETE WITH MEDIUM GRADED AGGREGATE  $(1/2^*$  MAX SZE) IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 39, ASPHALT BINDER TO BE MIXED WITH AGGREGATE SHALL MEET PERFORMANCE SPECIFICATION PG 64-16 IN CONFORMANCE WITH SECTION 92.
- 4 SEAL COAT: TYPE SS-1 ASPHALTIC EMILLISION CONFORMING TO SECTION 94
- CRACK SELING, PRIGE TO SELING, CRACKS SHILL BE CLEANED OF DEBRI BY AIR BLASTING, SEAATT MARTRU SHALL BE ASPHALT RUBBER CONFORMING TO CLATAMS SPECIFICATION SSP 37-400 HOT APPLIED, PLACED IN A FLUSH FILL METHOD AND FINISHED WITH A SOLVEGEE.

- SLURRY CEMENT BEDDING AND BACKFILL: SLURRY CEMENT SHALL BE PER SECTION 90-2
  OF THE CALTRANS STANDARD SPECIFICATIONS.
- STORM DRAIN PIPING SHALL BE EITHER: ADS N-12 WT IB (OR EQUAL) HIGH DENSITY POLYETHYLENE FOR SIZES 4"-36". OR PVC SEWER PIPE WITH RUBBER GASKETS AND FITTINGS CONFORMING TO ASTM D-3034, SDR 35 FOR SIZES 6" AND LARGER
- UNDER SLABS AND FUTURE BUILDING AREAS PIPES SHALL BE SOLVENT WELDED AND MAY BE EITHER PVC DRAIN WASTE AND VENT PIPE FITTINGS SCHEDULE 40 CONFORMING TO ASTM D2665 OR PVC SCHEDULE 40 PIPE CONFORMING TO D1785.
- 4. GATE VALVES SHALL BE AWWA C509 OR C515 NON-RISING STEM FOR SIZES OVER 2".
- BURIED METAL VALVES AND FITTINGS SHALL BE COATED WITH A COAL TAR BASED PAINT SYSTEM AS FOLLOWS:
- A. PRIME COAT: CARBOLINE "BITUMASTIC 50"
- B. SECOND COAT: "BITUMASTIC 50" WITH 2 COATS OF CARBOLINE "BITUMASTIC 50"
- UTILITY CHASES: POLYVINYL CHLORIDE (PVC) PIPE, SOLVENT WELD, CLASS 200, CONFORMING TO ASTM D2241, SCHEDULE 40 PVC SOLVENT WELD CONFORMING TO ASTM D1785: SIZES AS INDICATED ON THE DRAWINGS.
- CLEANOUTS: MATERIALS FOR CLEANOUTS SHALL BE IN ACCORDANCE WITH THE CURREN CALIFORNIA PLUMBING CODE AND THE DETAILS ON THE DRAWINGS. CLEANOUT RISERS SHALL BE OF THE SAME MATERIAL AS THE ADJACENT PIPE LINE.
- 8. DOWNSPOUT ADAPTER: ADAPTER SHALL BE AS MANUFACTURED BY NDS, INC.
- 10. SEE UTILITY STRUCTURE TABLE FOR UTILITY STRUCTURE SPECIFICATIONS

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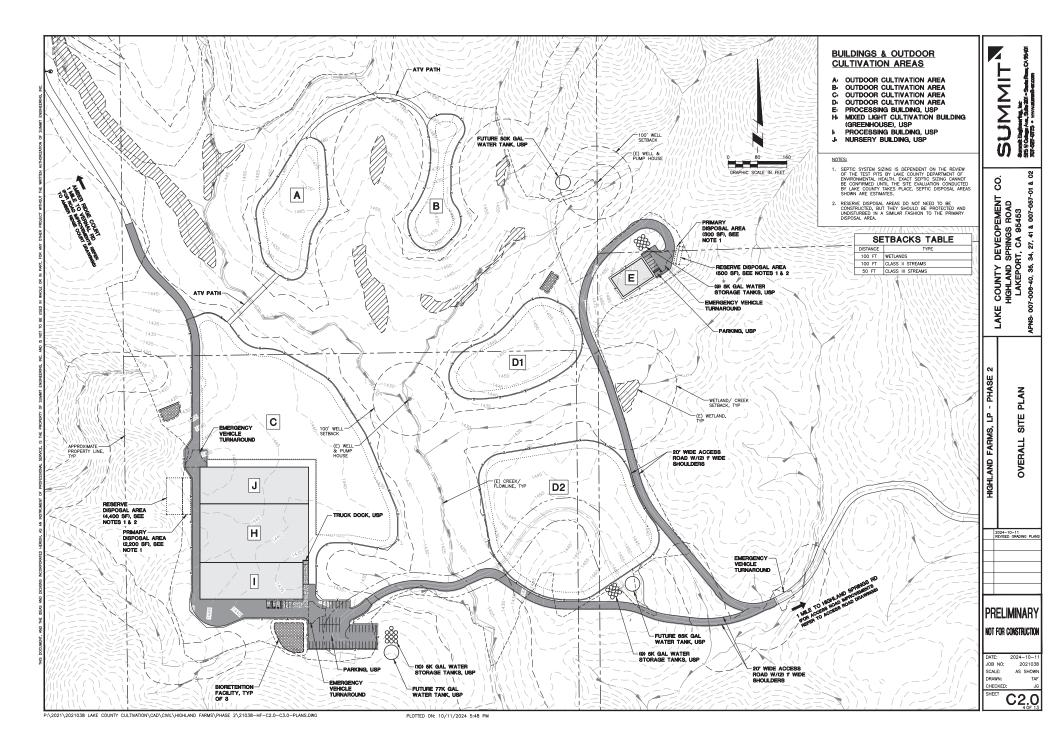
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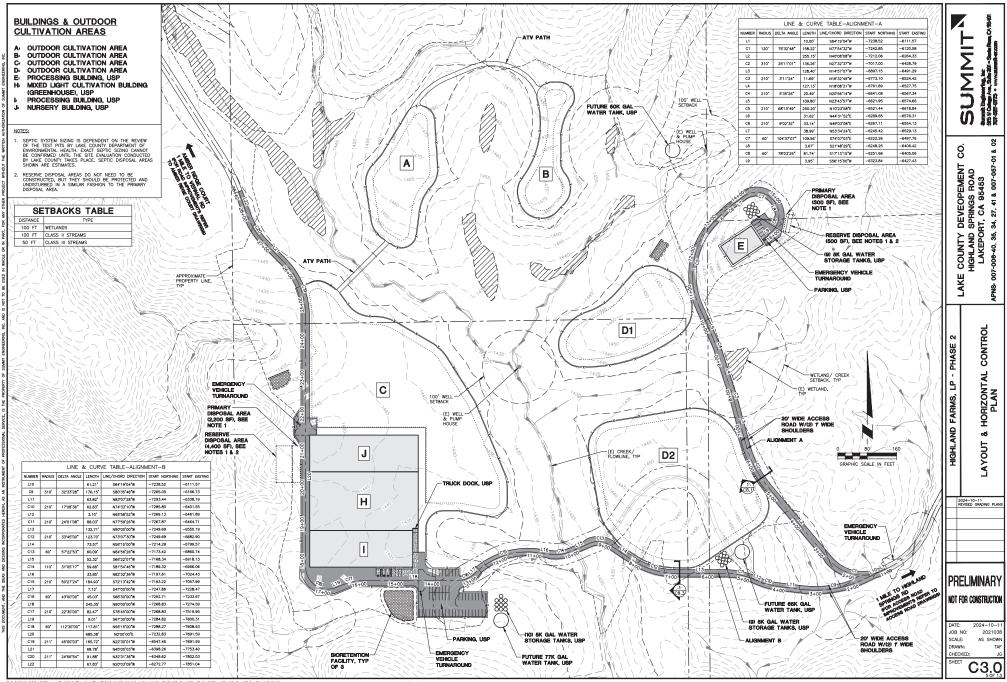
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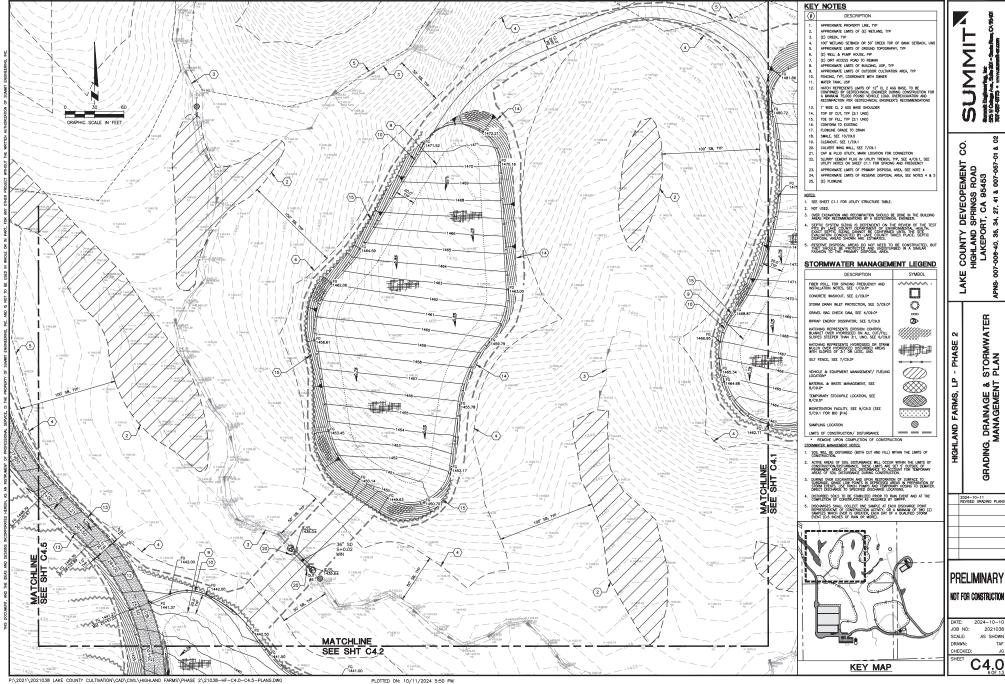
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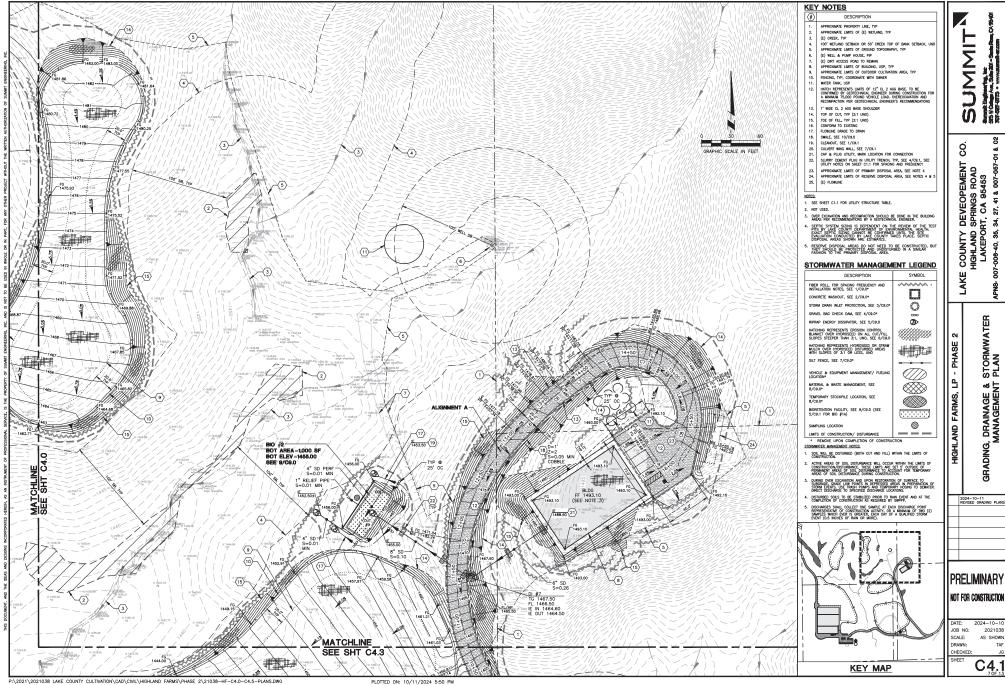
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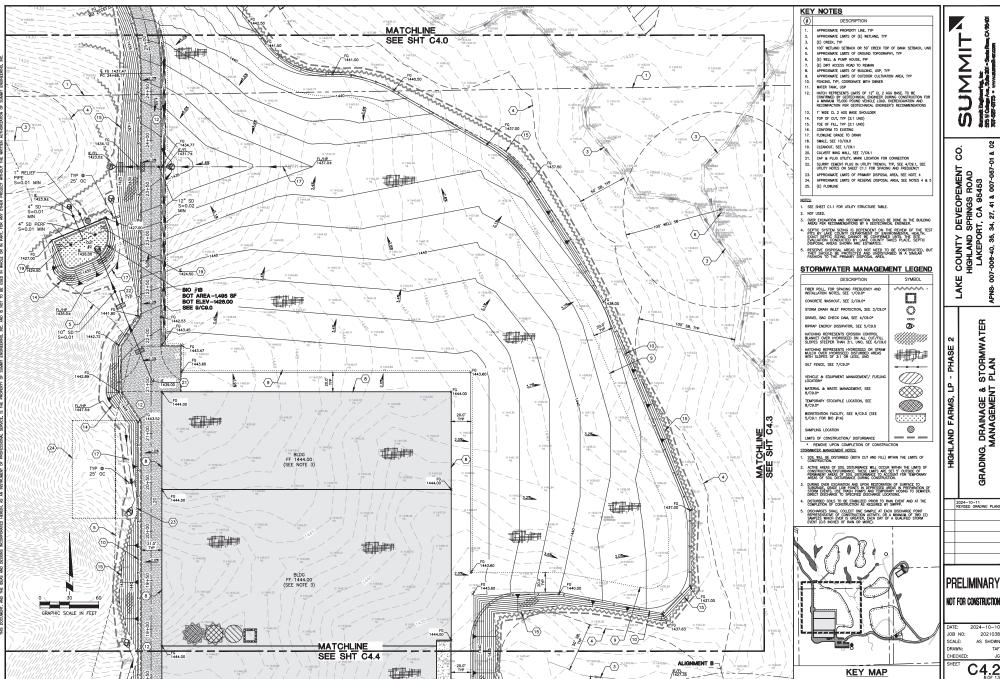


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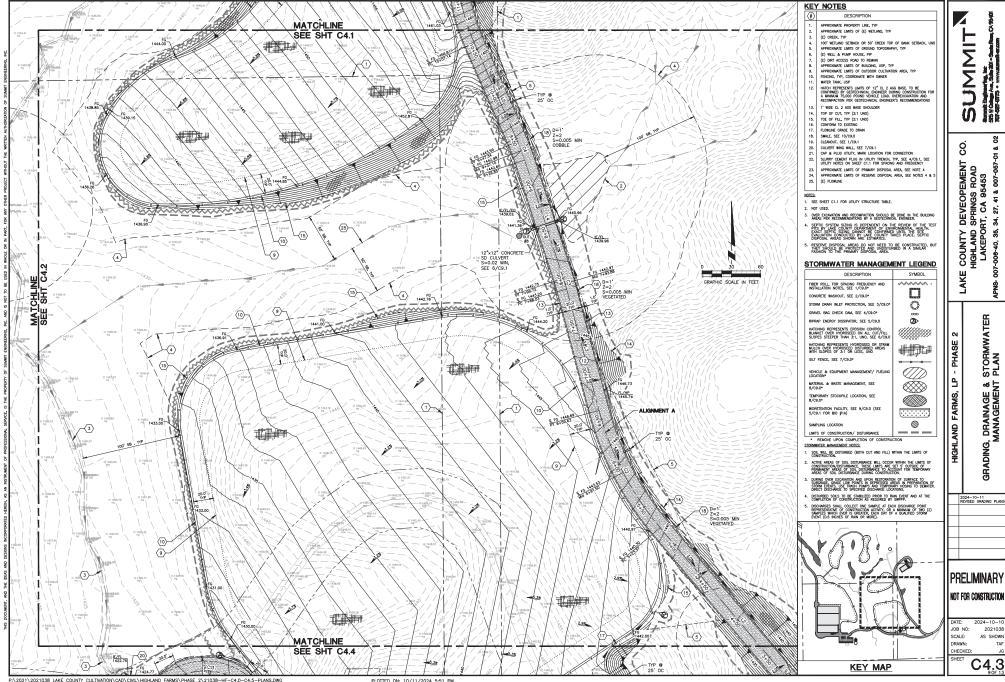
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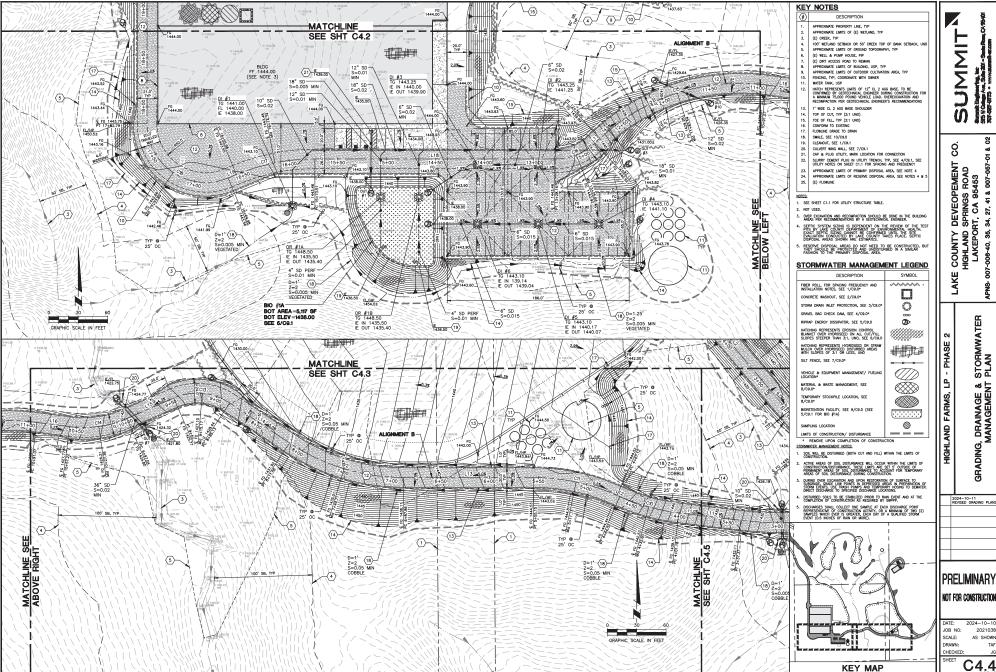
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GRADING, DRAINAGE & MANAGEMENT

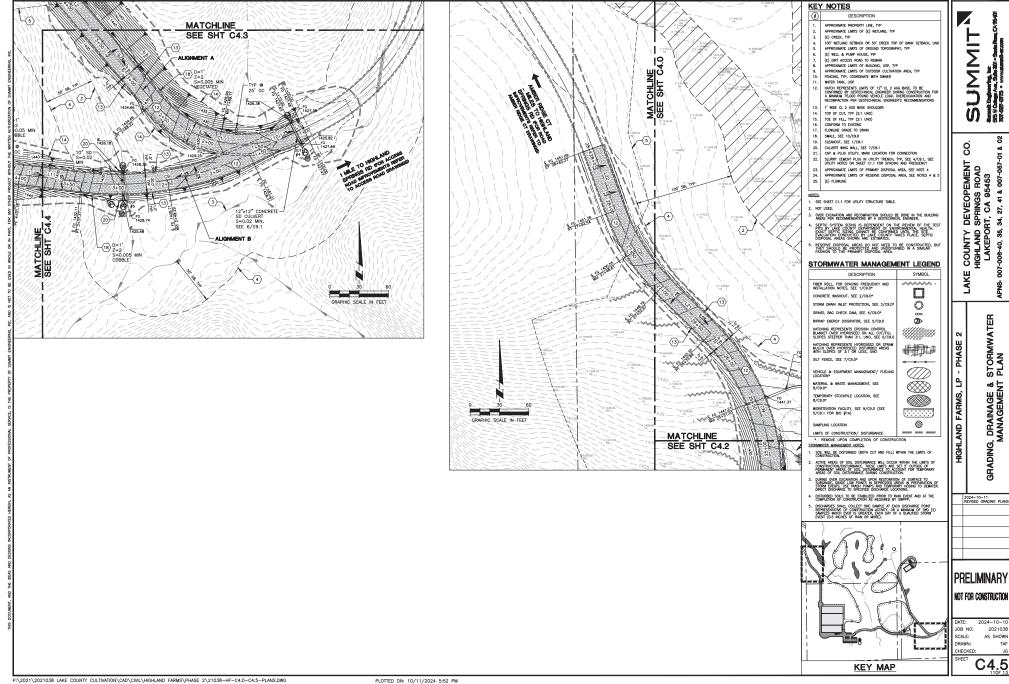
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