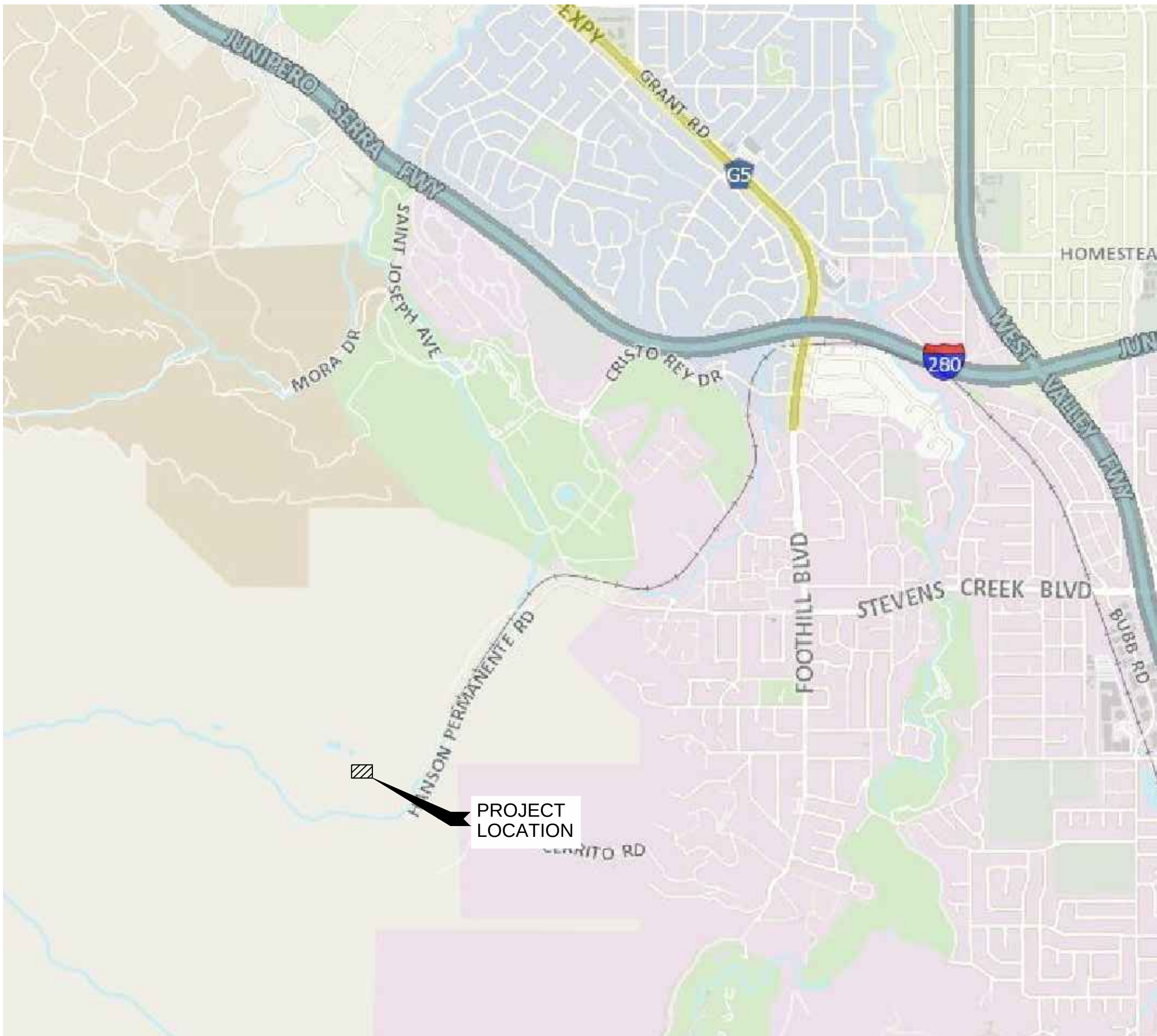


PROCESS WATER TREATMENT PLANT

LEHIGH SOUTHWEST CEMENT COMPANY
PERMANENTE PLANT AND QUARRY
24001 STEVENS CREEK BOULEVARD
CUPERTINO, CALIFORNIA 95014



VICINITY MAP
1"=1500'



LOCATION MAP
1"=400'

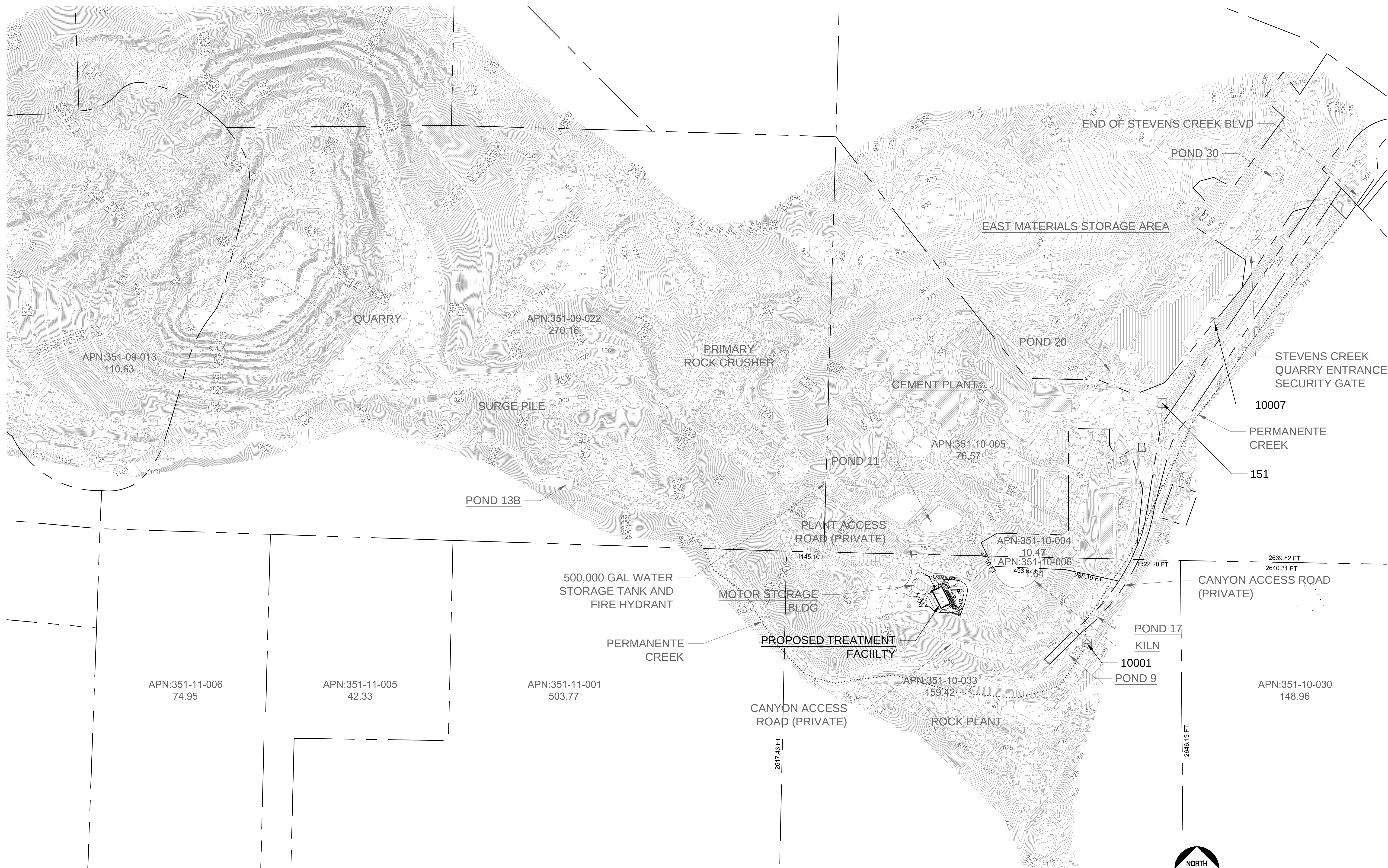
JANUARY 2017
ARCHITECTURAL AND SITE APPROVAL



NOT FOR CONSTRUCTION

SHEET INDEX	
C-0	COVER SHEET
C-1	OVERALL PLAN
C-2	SITE PLAN
C-3	GRADING SECTIONS
10-AS-1	FACILITY ELEVATIONS
10-AS-2	FACILITY ELEVATIONS
10-AS-3	FACILITY FLOOR PLAN

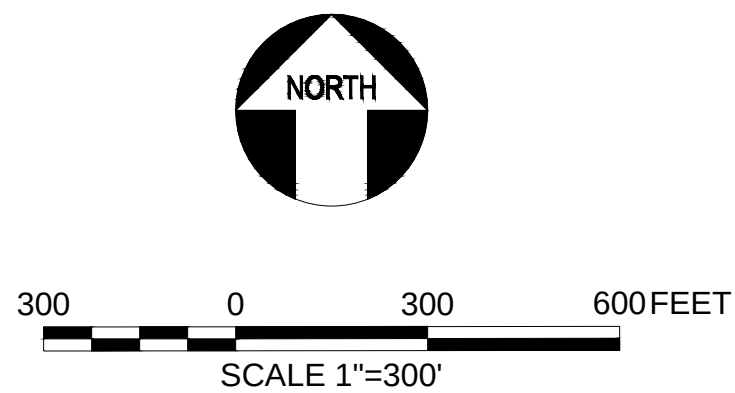
FOR MORE INFORMATION
PLEASE CONTACT:
JOE ZIEMANN, PE
(916) 780-2888 EXT. 113



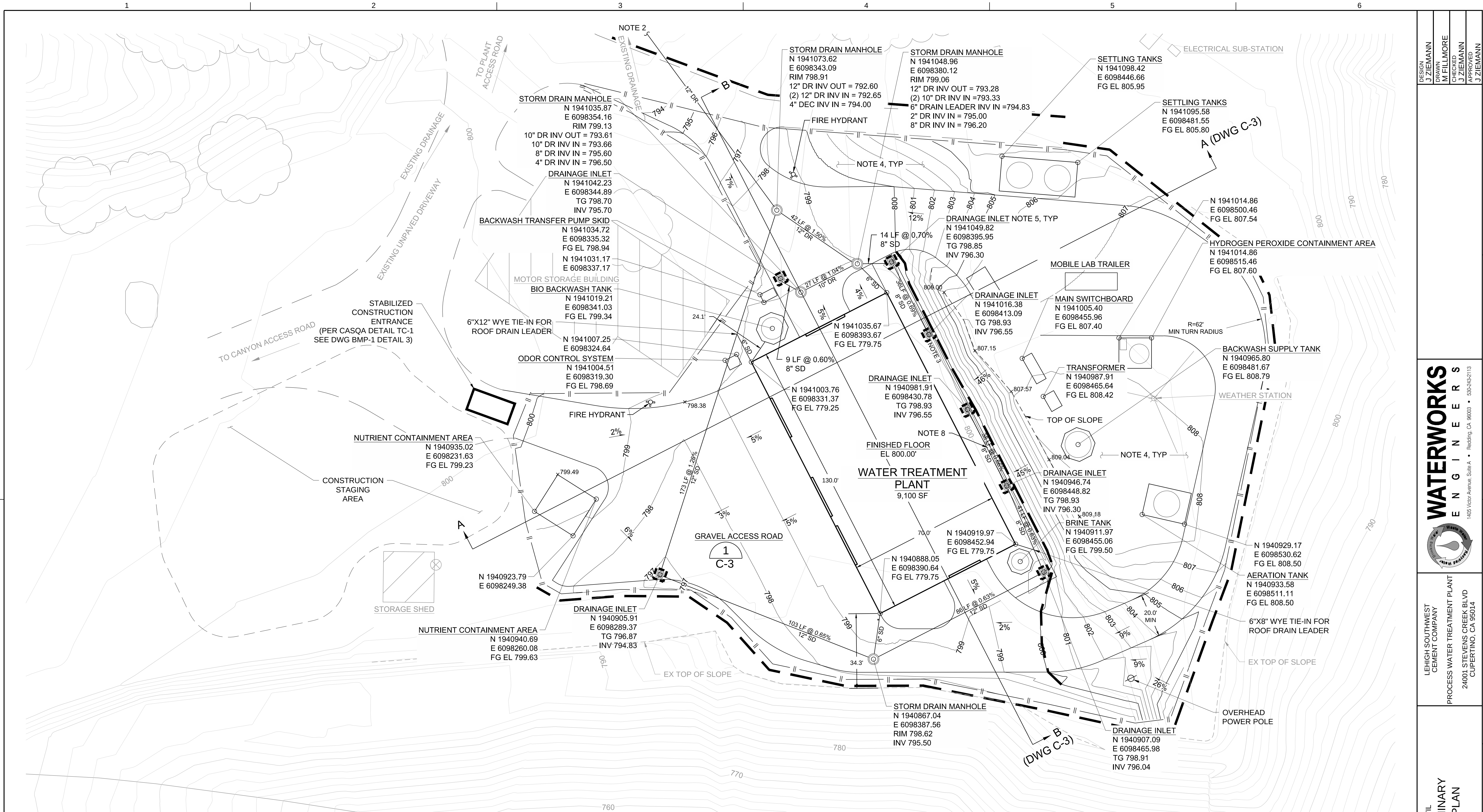
BENCHMARK	DESCRIPTION	NORTHING	EASTING	ELEVATION
10001	PVC PIPE	1940651.09	6099374.73	584.40
151	TOP PVC CASING	1942270.96	6099880.51	555.16
10007	TOP PVC CASING	1942811.57	6100234.11	555.76

BASIS OF BEARING: NAD 83 STATE PLANE 3

OVERALL SITE PLAN
1"=300'



DESIGN J ZIEMANN	DRAWN M FILLMORE	CHECKED J ZIEMANN	APPROVED J ZIEMANN
WATERWORKS ENGINEERS 1405 Victor Avenue, Suite A • Redding, CA 96003 • 530-243-2113			
LEHIGH SOUTHWEST CEMENT COMPANY PROCESS WATER TREATMENT PLANT 24001 STEVENS CREEK BLVD CUPERTINO, CA 95014			
CIVIL PRELIMINARY OVERALL PLAN			
DATE 01/04/2017 PROJECT NUMBER 16-062 DRAWING NUMBER C-1 SHEET NUMBER 2			

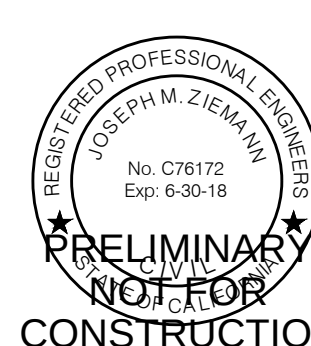
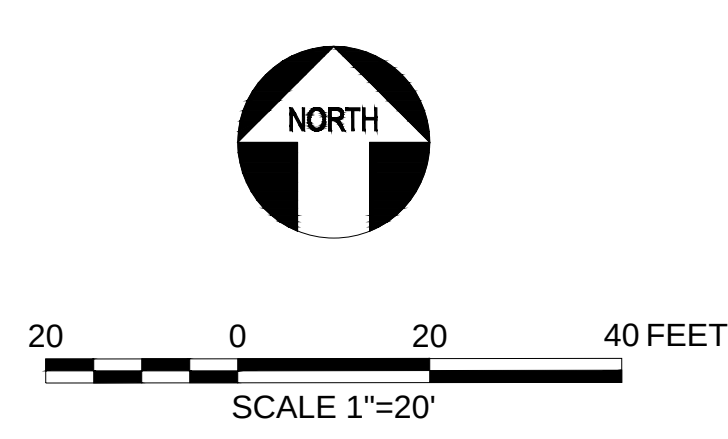


- NOTES:**
1. GRADING FOR THIS PROJECT CONSISTS OF CREATING A PAD FOR A WATER TREATMENT FACILITY AS WELL AS A ROAD ACCESSIBLE BY THE FIRE DEPARTMENT AROUND THE BUILDING.
 2. CONNECT TO LEHIGH CEMENT PLANT-WIDE PROCESS WATER CONVEYANCE SYSTEM. STORM DRAIN IS DISCHARGED TO POND 11, PUMPED TO THE QUARRY, AND CONVEYED TO THE INLET OF THE TREATMENT PLANT AND TREATED PRIOR TO DISCHARGE FROM THE SITE. STORM DRAIN SYSTEM IS PRIVATELY OWNED, OPERATED AND MAINTAINED BY LEHIGH CEMENT.
 3. INSTALL GRAVEL WALKWAY BEHIND BUILDING TO TOE OF SLOPE PER DETAIL **2 C-3**
 4. ALL DISTURBED AREAS OUTSIDE OF THE DRIVEWAY SHALL BE SEEDED WITH BROME SEED SPREAD AT A RATE OF 5 LB PER 1,000 SQUARE FEET. CONTRACTOR SHALL SEED AND WATER AS NEEDED TO ENSURE GROWTH.

5. PROVIDE 24"x24" PRECAST STORM DRAIN INLET, DEPTH AS REQUIRED.
6. CONTRACTOR SHALL OVEREXCAVATE TO ELEVATION 792.0 BELOW THE BUILDING FOUNDATION, AND EXTENDING TO 5'-0" BEYOND THE BUILDING FOUNDATION. CONTRACTOR SHALL PREPARE SUBGRADE PER THE SPECIFICATIONS AND PROJECT GEOTECHNICAL REPORT, AND REPLACE WITH ENGINEERED FILL AS REQUIRED BY THE PROJECT GEOTECHNICAL REPORT
7. CONTRACTOR SHALL OVER EXCAVATE THE TOP 2'-0" OF EXISTING GROUND UNDERNEATH ALL EXTERIOR TANK SLABS AND OTHER EXTERIOR FLATWORK, AND UNDERNEATH THE PROPOSED DRIVEWAY, EXTENDING TO 3'-0" BEYOND THE LIMITS OF SLABS AND THE DRIVEWAY. CONTRACTOR SHALL PREPARE SUBGRADE PER THE SPECIFICATIONS AND PROJECT GEOTECHNICAL REPORT, AND REPLACE WITH ENGINEERED FILL AS REQUIRED BY THE PROJECT GEOTECHNICAL REPORT.

8. ELEVATION 799.01 TYP BETWEEN STORM DRAIN INLETS AT TOE OF SLOPE
9. EXISTING CONDITIONS SURVEY COMPLETED ON SEPTEMBER 26, 2016 BY CURT DUNBAR, PLS NO. 5615.
10. BASIS OF BEARING: NAD 83 STATE PLANE 3.

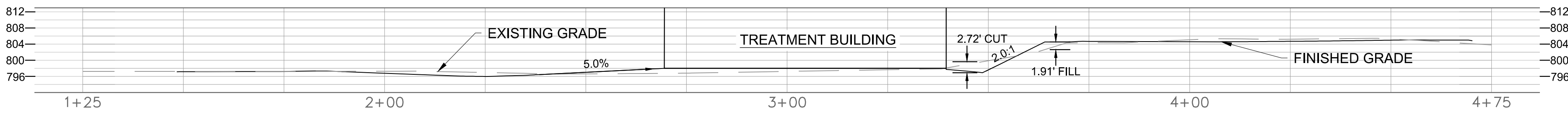
- LEGEND:**
- || — EXTENT OF GRADING
 - - - - - TOP OR BOTTOM OF SLOPE
 - - - - - FIBER ROLL PER CASQA DETAIL SE-5 (DWG BMP-2 DETAIL 1)
 - INLET PROTECTION PER CASQA DETAIL SE-10 (DWG BMP-2 DETAIL 8)
 - - - - - CONSTRUCTION STAGING AREA



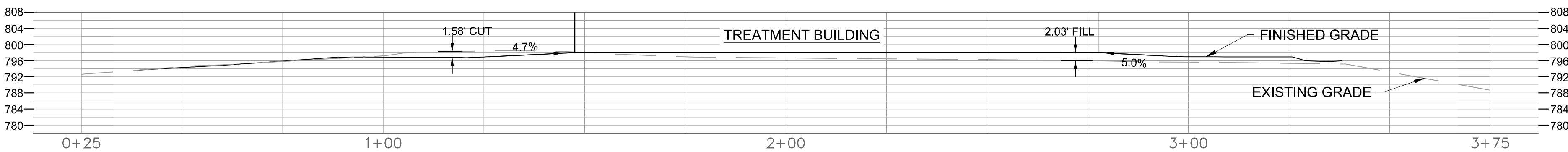
DESIGN J ZIEMANN	DRAWN M FILLMORE	CHECKED J ZIEMANN	APPROVED J ZIEMANN	WATERWORKS ENGINEERS 1405 Victor Avenue, Suite A • Redding, CA 96003 • 530-243-2113	LEHIGH SOUTHWEST CEMENT COMPANY PROCESS WATER TREATMENT PLANT 24001 STEVENS CREEK BLVD CUPERTINO, CA 95014	CIVIL PRELIMINARY SITE PLAN	DATE 01/04/2017
							PROJECT NUMBER 16-062
							DRAWING NUMBER C-2
							SHEET NUMBER 3

EARTHWORK QUANTITIES

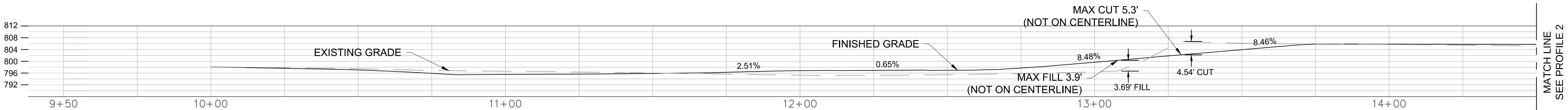
Improvement Area	Earthwork Quantity		Maximum Depth	
	Cut (CY)	Fill (CY)	Max Cut Depth (ft)	Max Fill Depth (ft)
Aeration Tank	0.0	2.0	3.0	2
Backwash Tank	2.8	0.0	3.2	2
Bio Backwash Tank	2.4	0.0	3.2	2
Brine Tank	0.0	2.7	3.2	2
Hydrogen Peroxide Tank	0.0	1.9	2.8	2
Nutrient Tank	9.9	0.0	3.7	2
Settling Tanks	10.3	0.0	3.3	2
Odor Control System	0.0	0.3	2.4	2
Backwash Transfer Pumps	0.8	0.0	2.4	2
Switchboard	0.5	0.0	2.4	2
Transformer	0.3	0.0	2.4	2
Building	0.0	379.2	7	8
Road	1746.5	1299.9	5.3	3.9
Other Unpaved Areas	585.8	645.1	3.9	3.1
Totals (CY)	2359	2331		



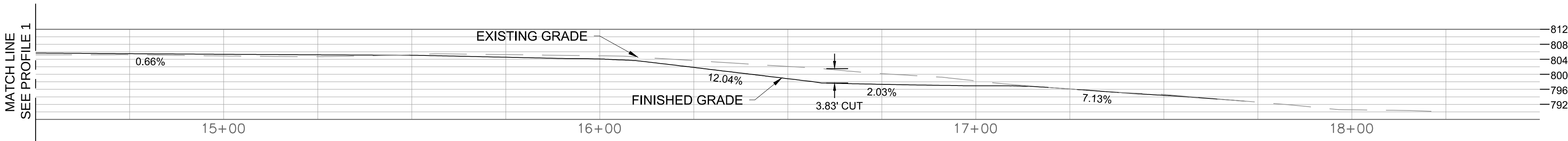
SECTION A-A



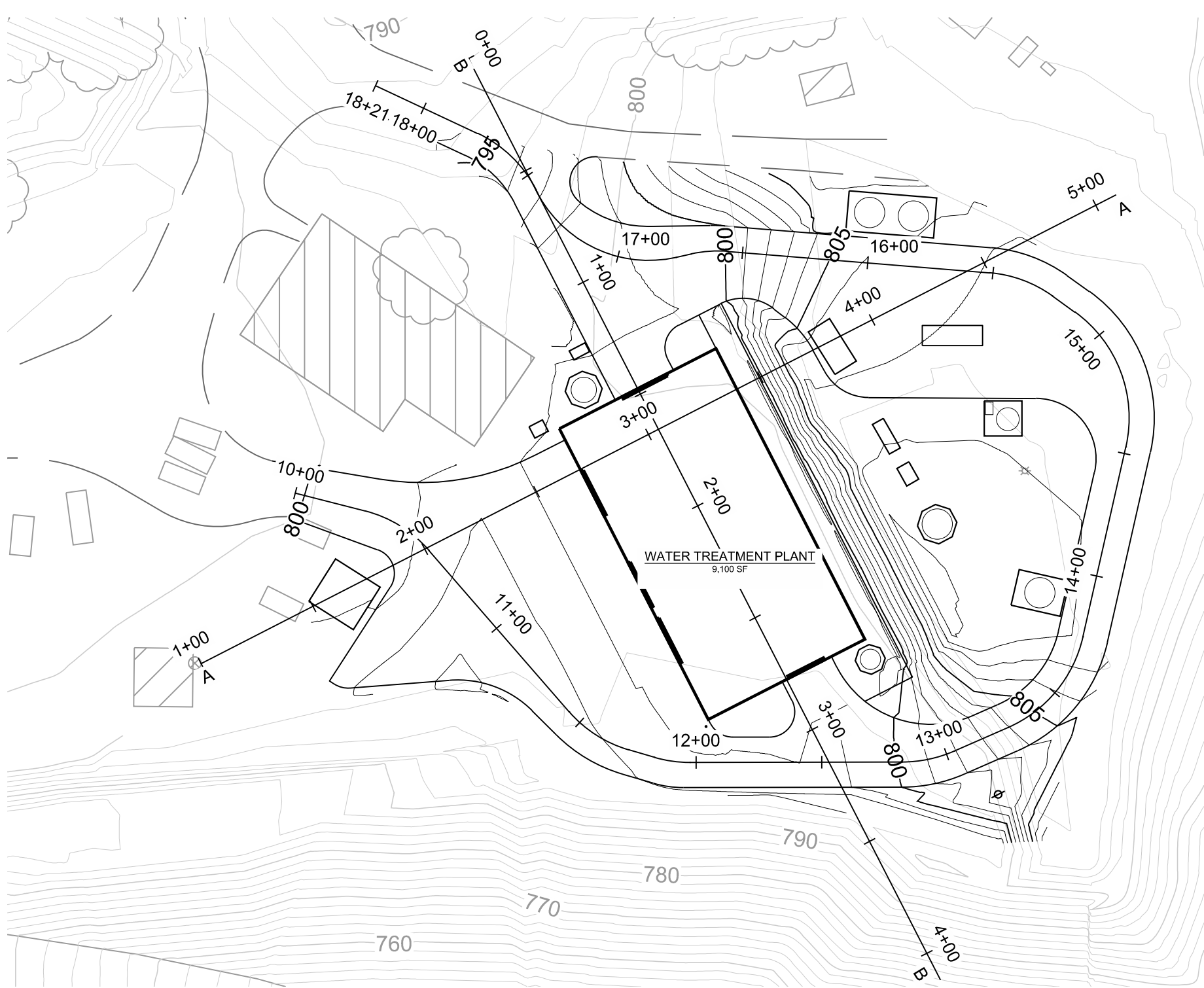
SECTION B-B



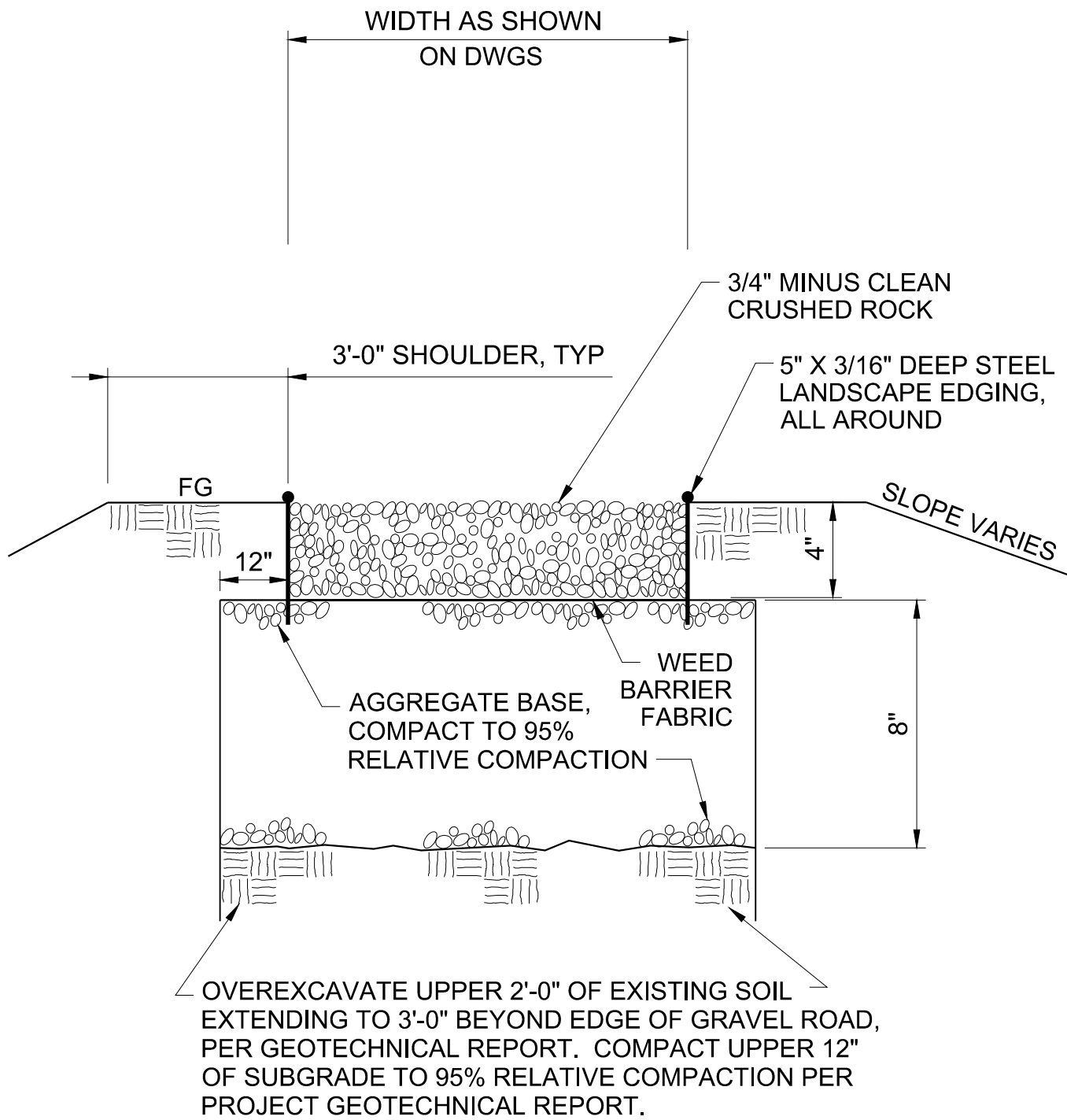
DRIVE PROFILE 1 OF 2



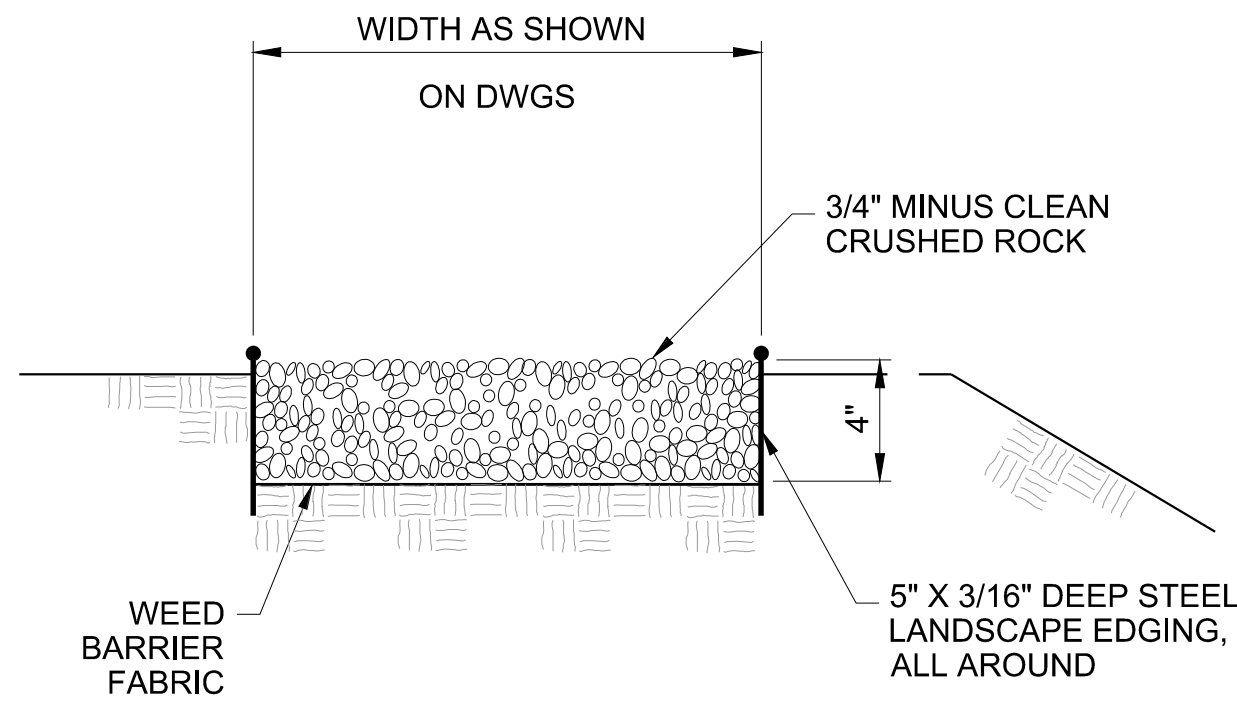
DRIVE PROFILE 2 OF 2



STATIONING OF SECTIONS AND PROFILES
SCALE 1"=50'



1 GRAVEL ROAD SURFACING
C-2 NTS



2 GRAVEL WALKWAY
C-2 NTS



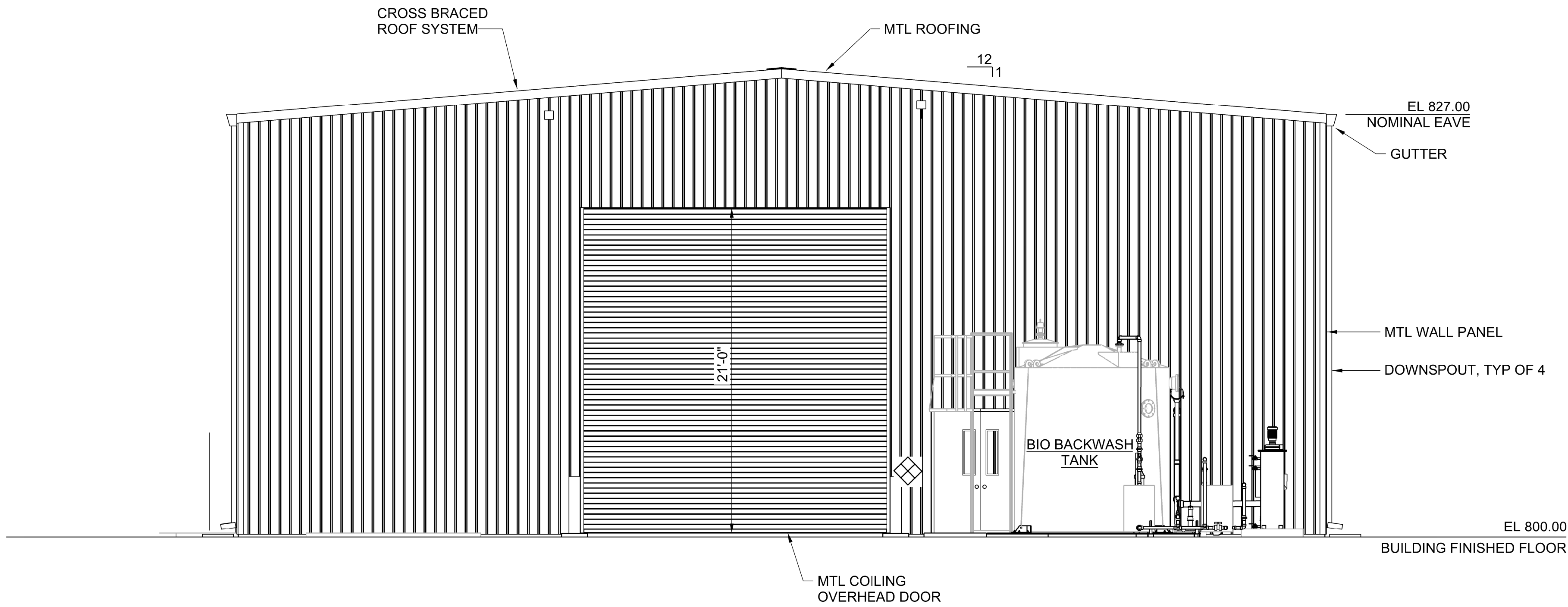
DESIGN	J ZIEMANN
DRAWN	M FILLMORE
CHECKED	J ZIEMANN
APPROVED	J ZIEMANN



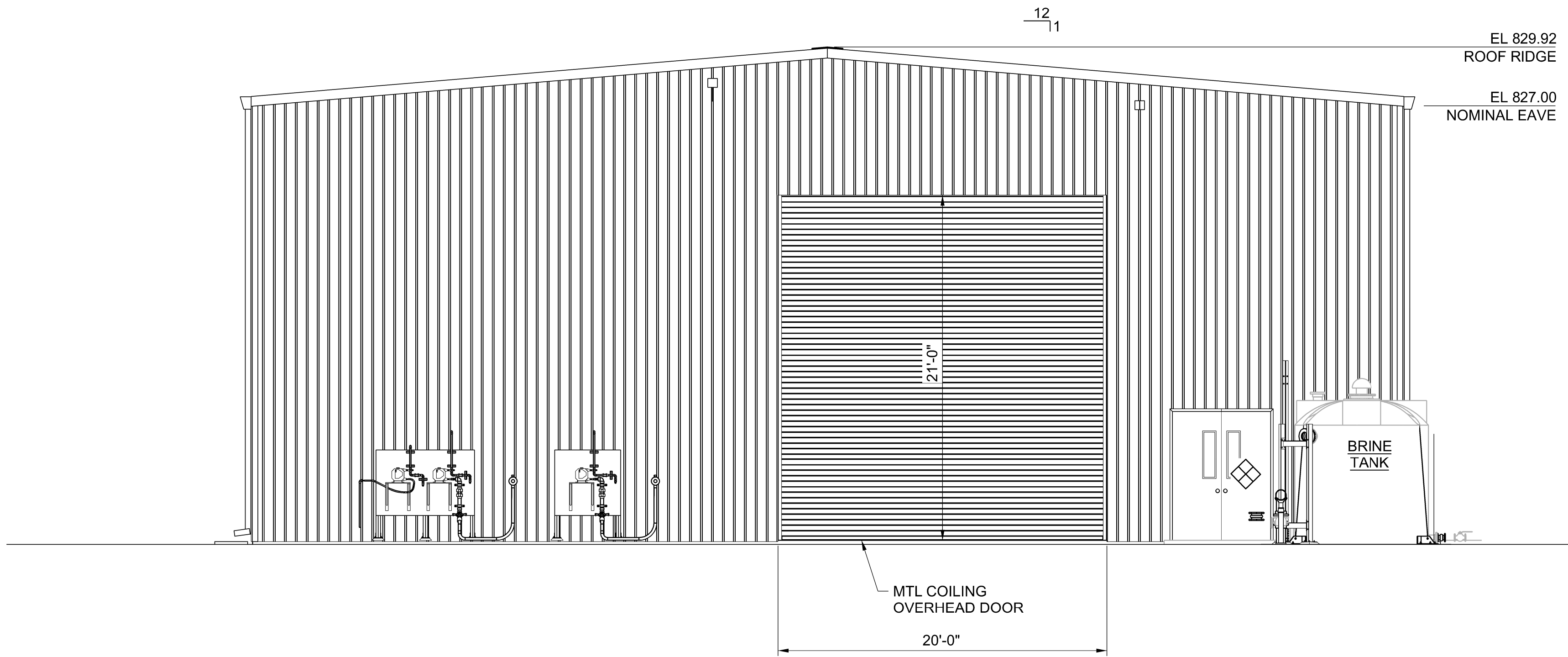
LEHIGH SOUTHWEST
CEMENT COMPANY
PROCESS WATER TREATMENT PLANT
24001 STEVENS CREEK BLVD
CUPERTINO, CA 95014

CIVIL
PRELIMINARY
GRADING SECTIONS

DATE	01/04/2017
PROJECT NUMBER	16-062
DRAWING NUMBER	C-3
SHEET NUMBER	4

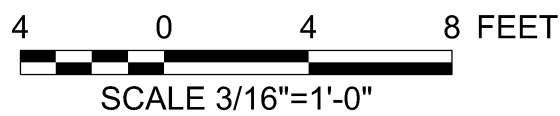


NORTH ELEVATION
3/16" = 1'-0"
10-AS-3



SOUTH ELEVATION
3/16" = 1'-0"
10-AS-3

BUILDING CODE ANALYSIS	
BUILDING CODE	2015 CBC
OCCUPANCY CLASSIFICATION	F-2
HAZARDOUS MATERIALS	SODIUM HYPOCHLORITE, 12.5%: 400 GALLONS STORAGE CITRIC ACID, 50%: 400 GALLONS STORAGE VITEC 1400 ANTISCALANT: 200 GALLONS STORAGE ALLOWABLE STORAGE: 1,000 GALLONS (WITH FIRE SPRINKLER)
OCCUPANCY SEPARATION	N.A.
TYPE OF CONSTRUCTION	V-B
NUMBER OF STORIES ABOVE GRADE	1 ACTUAL 3 ALLOWABLE
BUILDING HEIGHT ABOVE GRADE	30'-0" ACTUAL 60'-0" ALLOWABLE
BUILDING AREA	8,836 SF ACTUAL 52,000 SF ALLOWABLE W/O MODIFICATIONS
FIRE SUPPRESSION	ELECTRICAL ROOM: FM-200 REMAINDER OF BUILDING: FIRE SPRINKLERS
FIRE ALARM SYSTEM	NFPA 72
FIRE SEPARATION DISTANCE	24 FT TO EXISTING STORAGE BUILDING
FIRE-RESISTANCE RATING	BEARING WALLS AND STRUCTURAL FRAME: 0 HOURS REQUIRED FLOOR: 0 HOURS REQUIRED
OCCUPANT LOAD FACTOR	100 SF/PERSON
OCCUPANT LOAD	88 PERSONS
TRAVEL DISTANCE	100 FT MAXIMUM ACTUAL 400 FT ALLOWABLE



PRELIMINARY
NOT FOR
CONSTRUCTION

DESIGNED	J ZIEMANN
DRAWN	C WORRALL
CHECKED	J ZIEMANN
APPROVED	J ZIEMANN

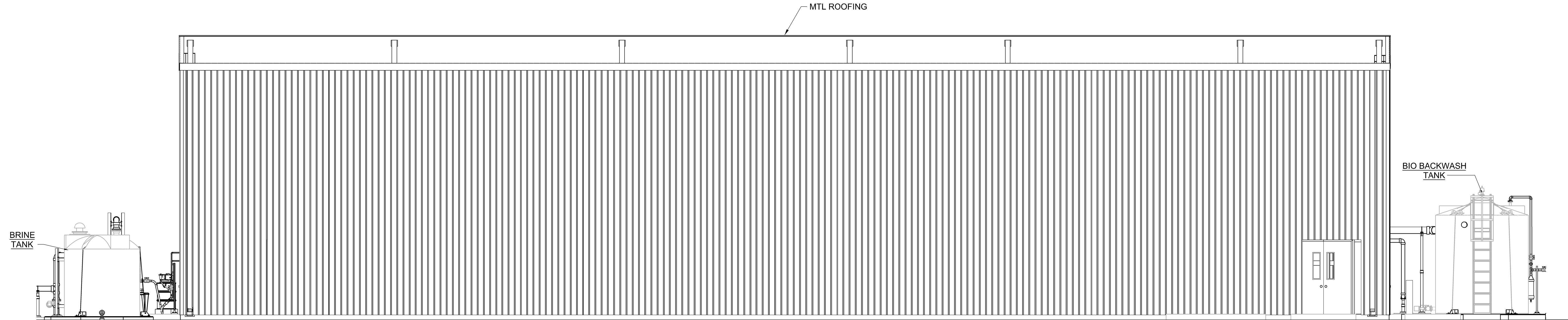
WATERWORKS
ENGINEERS
1405 Vicar Avenue, Suite A • Redding, CA 96003 • (530) 243-2113



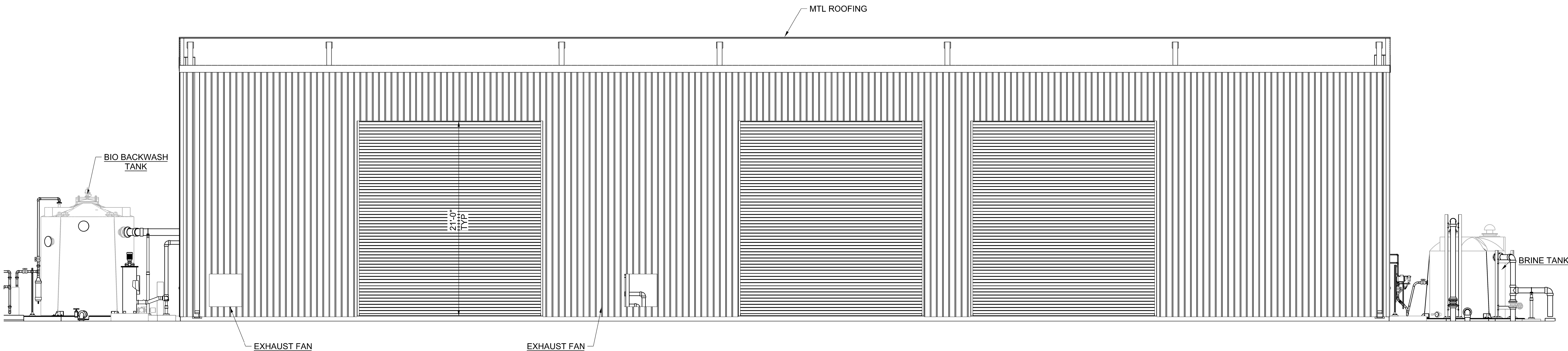
LEHIGH SOUTHWEST
CEMENT COMPANY
PROCESS WATER TREATMENT PLANT
24001 STEVENS CREEK BLVD
CUPERTINO, CA 95014

ARCHITECTURAL/STRUCTURAL
TREATMENT FACILITY
ELEVATIONS

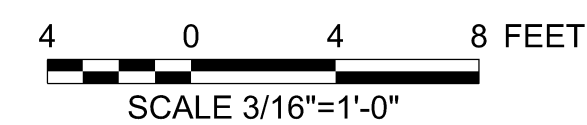
DATE	1/4/2017
PROJECT NUMBER	16-062
DRAWING NUMBER	10-AS-1
SHEET NUMBER	5



EAST ELEVATION
3/16" = 1'-0"
10-AS-3



WEST ELEVATION
3/16" = 1'-0"
10-AS-3



PRELIMINARY
NOT FOR
CONSTRUCTION

DESIGNED J ZIEMANN		 WATERWORKS ENGINEERS 1405 Victor Avenue, Suite A • Redding, CA 96003 • (530) 243-2113
DRAWN C WORRALL		
CHECKED J ZIEMANN		
APPROVED J ZIEMANN		
MECHANICAL/STRUCTURAL TREATMENT FACILITY ELEVATIONS		
LEHIGH SOUTHWEST CEMENT COMPANY PROCESS WATER TREATMENT PLANT 24001 STEVENS CREEK BLVD CUPERTINO, CA 95014		
DATE 1/4/2017		
PROJECT NUMBER 16-062		
DRAWING NUMBER 10-AS-2		
SHEET NUMBER 6		

