
APPENDIX B

100% Plan Set

FILE: S:\1337-00 Jenny Lind Elem. School Plans\00 TITLE.dwg
DATE: 06/29/2006 10:51:27 AM
DRAWN BY: J. B. B. (JBB)
CHECKED BY: J. B. B. (JBB)
DATE: 06/29/2006 10:51:27 AM
PROJECT: JENNY LIND ELEMENTARY SCHOOL WASTEWATER TREATMENT PLANT UPGRADE PROJECT

ABREVIATIONS

STA.	STATION
D.I.	DROP INLET
MH.	MANHOLE
PUE	PUBLIC UTILITY EASEMENT
EP	EDGE OF PAVEMENT
CL	CENTER LINE
R/W	RIGHT OF WAY
PL	PROPERTY LINE
C.	CONCRETE
IRR.	IRRIGATION
MTRS	METERS
WV	WATER VALVE
ACP	ASBESTOS CEMENT PIPE
F.H.	FIRE HYDRANT
S.	SIGN
CMP	CORRIGATED METAL PIPE
T(UG)	TELEPHONE (UNDER GROUND)
TEL.	TELEPHONE
PEO.	PEDESTAL
E(UG)	ELECTRICAL LINE (UNDER GROUND)
E(OH)	ELECTRICAL LINE (OVERHEAD)
JP	JOINT POLE
G.	GAS LINE
SD	STORM DRAIN
W	WATER LINE
SS	SANITARY SEWER
ROWD	REDWOOD TREE
ASPH	ASPHALT PAVING
SSCO	SANITARY SEWER CLEANOUT
BC	BEGIN CURVE
EC	END CURVE
PI	POINT OF INTERSECTION
BVC	BEGIN VERTICAL CURVE
EVC	END VERTICAL CURVE
SSMH	SANITARY SEWER MAN HOLE

CONVENTIONAL SIGNS

	EXISTING	PROPOSED
CENTERLINE		
RIGHT OF WAY		
LOT LINE		
EASEMENT		
EDGE OF PAVEMENT		
EDGE OF SHOULDER		
CURB-GUTTER & SIDEWALK		
CONTOUR		
FLOW LINE		
WATER MAIN		
SEWER MAIN		
STORM DRAIN		
SEWER SERVICE		
SEWER SERVICE		
SEWER SERVICE		
FIRE HYDRANT		
WATER SERVICE		
WATER VALVE & BOX		
DRAIN DROP INLET		
GAS MAIN		
GAS SERVICE		
TELEPHONE		
ELECTRICITY		
TELEVISION		
FENCE		
GUY WIRE & ANCHOR		
STREET LIGHT		
UTILITY POLE		
PULL BOX		
CONTROL PEDESTAL		

CALAVERAS COUNTY

PRINCIPAL CIVIL ENGINEER

DATE

IMPROVEMENT PLANS FOR CONSTRUCTION OF JENNY LIND ELEMENTARY SCHOOL WASTEWATER TREATMENT PLANT UPGRADE PROJECT CALAVERAS UNIFIED SCHOOL DISTRICT

CWSRF PROJECT NO.
C-06-8378-110

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STRUTURAL

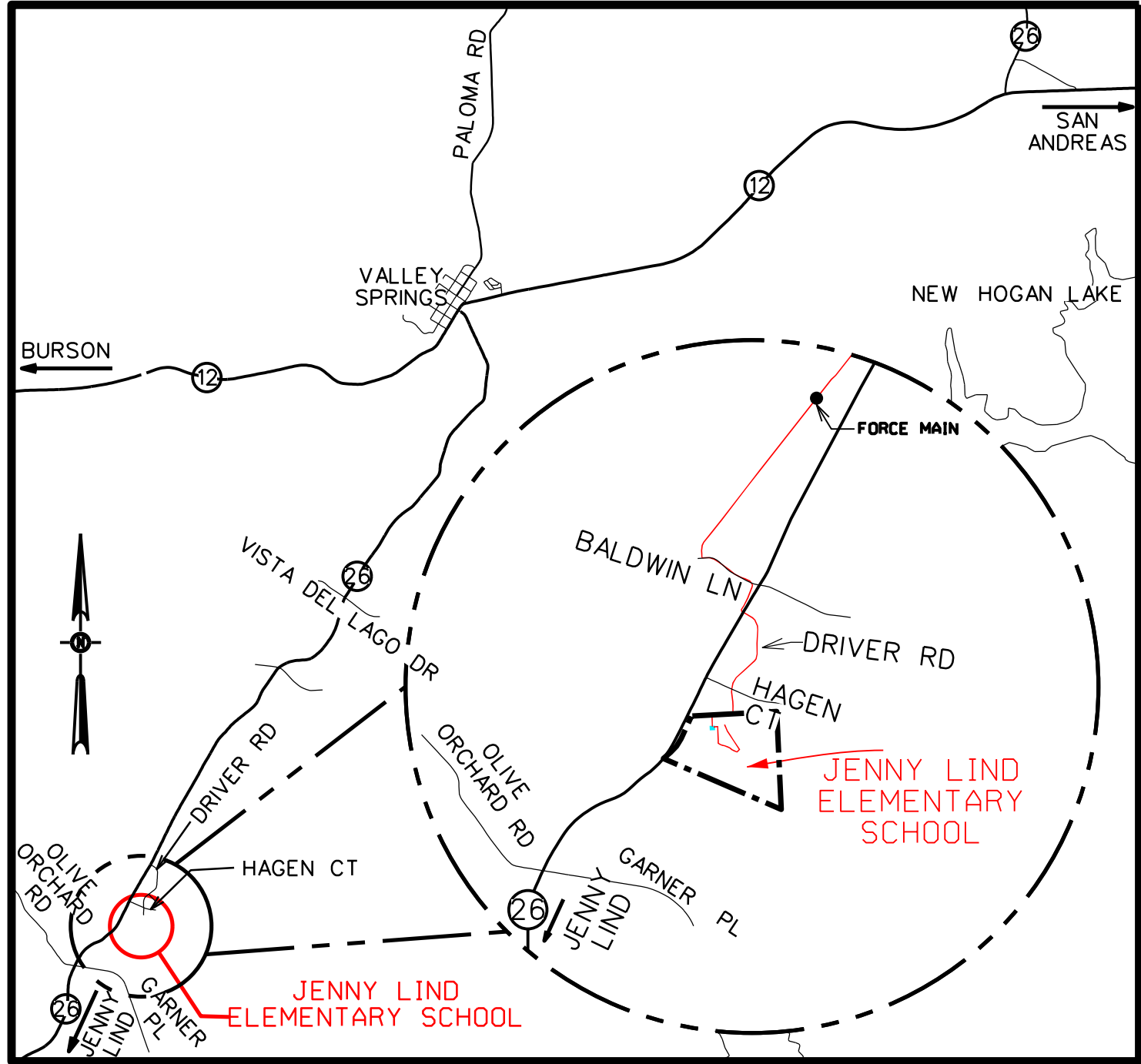
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VICINITY MAP

NO SCALE

PROJECT LOCATION

JENNY LIND ELEMENTARY SCHOOL

NO SCALE

PROJECT ENGINEER

KASL CONSULTING ENGINEERS
7777 GREENBACK LANE, SUITE 104
CITRUS HEIGHTS, CA 95610
916-722-1800

ELECTRICAL ENGINEER

FRISCH ENGINEERING
13405 FOLSOM BOULEVARD, SUITE 600
FOLSOM, CA 95630
916-353-1025

GEOTECHNICAL ENGINEER

ENGEO INC.
2213 PLAZA DRIVE
ROCKLIN, CA 95765
916-417-8440

ARCHITECT

SIGERSON ARCHITECTS
P.O. BOX 1836
FAIR OAKS, CA 95628
916-863-6470

STRUCTURAL ENGINEER

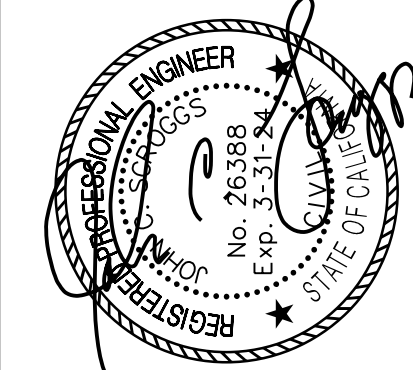
VE SOLUTIONS
7777 GREENBACK LANE, SUITE 104
CITRUS HEIGHTS, CA 95610
916-505-0519

SCOPE OF WORK

- MODIFICATION OF ON-SITE SEWAGE COLLECTION FACILITIES
- CONSTRUCTION OF JENNY LIND ELEMENTARY SCHOOL SEWER STATION
- DEMOLITION OF EXISTING WASTEWATER TREATMENT PLANT AND LIFT STATION
- CONSTRUCTION OF SEWER FORCE MAIN
- CONSTRUCTION OF INTERMEDIATE LIFT STATION, SILVER RAPIDS ROAD
- CONSTRUCTION OF SEWAGE COLLECTION FACILITIES, LA CONTENTA COMMERCIAL PROPERTY, GOLDEN WEST CT., AND LA CONTENTA GOLF COURSE
- CONSTRUCTION OF ASSOCIATED PIPING, VALVES, GRADING, PAVEMENT, FENCING, ELECTRICAL, CONTROL, AND INSTRUMENTATION FACILITIES

100% RELEASE

SCALE: N.A.
JOB NO. 1337-01



IMPROVEMENT PLANS FOR CONSTRUCTION OF
JENNY LIND ELEMENTARY SCHOOL
WASTEWATER TREATMENT PLANT UPGRADE PROJECT
CALAVERAS UNIFIED SCHOOL DISTRICT
CALAVERAS COUNTY

TITLE SHEET

CONSULTING
KASL
ENGINEERS
7777 Greenback Lane
Suite 104
Citrus Heights, CA 95610
Tel. (916) 722-1800
Fax (916) 722-4995
CIVIL - WATER RESOURCES - SURVEYING

SHEET 1 OF 102

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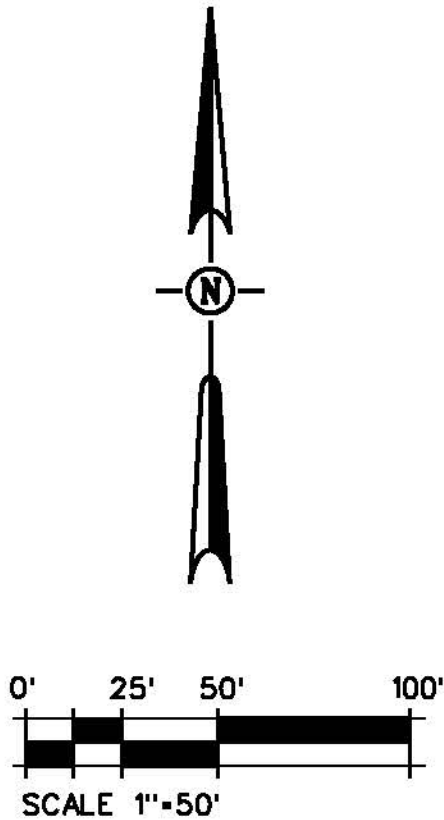


LEGEND

- //// //// ABANDON EXISTING FORCE MAIN
- O EXISTING SS CLEANOUT, TO REMAIN
- P EXISTING SS LIFT STATION, TO BE DEMOLISHED SEE NOTES
- 6" SANITARY SEWER MAIN, TO REMAIN
- SANITARY SEWER LATERAL, TO REMAIN
- X REMOVE EXISTING SS CLEANOUT. REPLACE WITH NEW MANHOLE SEE PLAN SHEETS 4&5
- "DISTRICT" CALAVERAS UNIFIED SCHOOL DISTRICT

DEMOLITION NOTES

- EXISTING JLES WWTP TO REMAIN IN SERVICE UNTIL NEW JLES COLLECTION SYSTEM, LIFT STATION, OFFSITE FORCE MAIN AND GRAVITY MAIN AND INTERMEDIATE LIFT STATION IMPROVEMENTS ARE COMPLETED, TESTED AND ACCEPTED BY THE DISTRICT.
- CONTRACTOR TO EMPTY JLES WWTP TANKS PRIOR TO DEMOLITION.
- EXISTING SODIUM HYPOCHLORITE TANK TO BE RETURNED TO NORTHSTAR CHEMICAL BY DISTRICT.
- EXISTING LIFT STATION PUMPS ARE TO BE SALVAGED TO DISTRICT.
- EXISTING TREATED (TITLE 22) EFFLUENT BASIN TO BE DRAINED BY CONTRACTOR PRIOR TO DEMOLITION.
- AFTER BASIN HAS BEEN EMPTIED CONTRACTOR TO REMOVE LINER AND 4"x4" PERIMETER CURBS.
- BASIN TO BE BACKFILLED WITH CLEAN, DRY MATERIAL AND COMPACTED TO NOT LESS THAN 90% RELATIVE COMPACTION.
- EXCEPT AS OTHERWISE NOTED CONTRACTOR TO REMOVE EXISTING WASTEWATER TREATMENT TANKS STRUCTURES AND BUILDINGS. REMOVE PIPING AND CONDUITS. CAP AND ABANDON PIPING AND CONDUITS A MINIMUM OF 3 FEET BELOW EXISTING GRADE.
- ALSO REFER TO SPECIFICATIONS SECTION 02050, FOR ADDITIONAL DEMOLITION REQUIREMENTS.
- EXISTING PROPANE TANKS TO REMAIN; PROTECT
- EXISTING STORAGE CONTAINER TO REMAIN; PROTECT
- EXISTING BACKFLOW PREVENTER AND CONNECTION TO POTABLE WATER SUPPLY TO REMAIN; PROTECT
- EXISTING ELECTRICAL PANELS TO BE REMOVED. ABANDON CONDUITS BACK TO EXISTING PANELS IN WWTP BUILDINGS.
- EXISTING EFFLUENT IRRIGATION CONTROL AND PUMPING FACILITIES: DISTRICT TO TERMINATE FRESH WATER SUPPLY FACILITIES. CONTRACTOR TO REMOVE TREATED EFFLUENT FACILITIES
- EXISTING LIFT STATION CONCRETE COVER AND ELECTRICAL PANEL TO BE REMOVED AND WETWELL BACKFILLED WITH CLEAN, DRY MATERIAL COMPACTED TO NOT LESS THAN 90% RELATIVE COMPACTION



REVISIONS		DATE		BY	
NO.	DESCRIPTION				

100% RELEASE	RELEASE 4	DATE: JULY 2023
	SCALE: 1"=50'	JOB NO. 1337-01

REGISTERED PROFESSIONAL ENGINEER
JOSEPH A. JONES
No. 26388
Exp. 3-31-24
STATE OF CALIFORNIA

IMPROVEMENT PLANS FOR CONSTRUCTION OF
**JENNY LIND ELEMENTARY SCHOOL
WASTEWATER TREATMENT PLANT UPGRADE PROJECT**
CALAVERAS UNIFIED SCHOOL DISTRICT
CALAVERAS COUNTY

JLES DEMOLITION PLAN

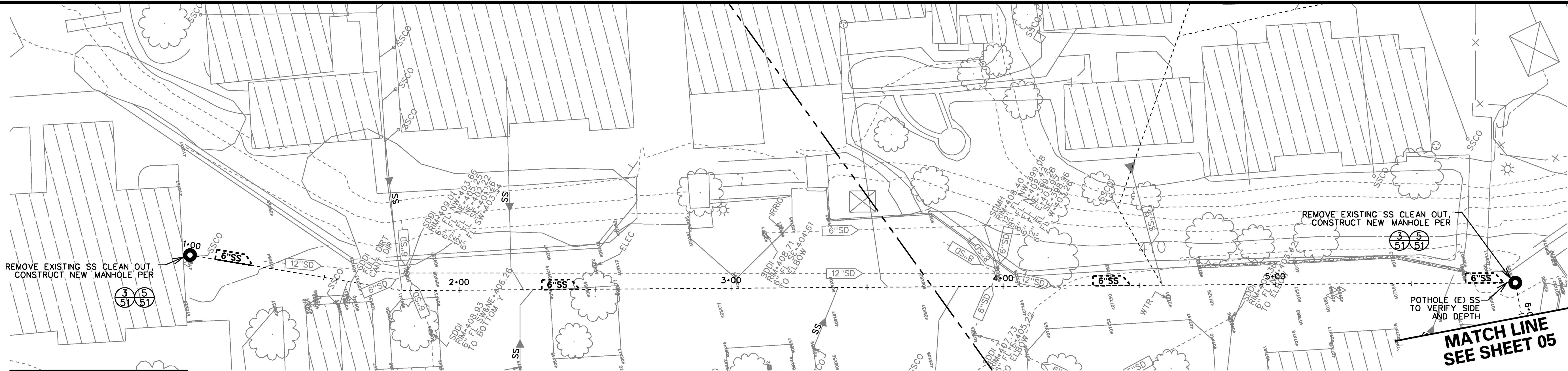
CONSULTING
KASL
ENGINEERS

7777 Greenback Lane
Suite 104
Citrus Heights, CA 95610
Tel: (916) 722-1800
Fax: (916) 722-4996

CIVIL - WATER RESOURCES - SURVEYING

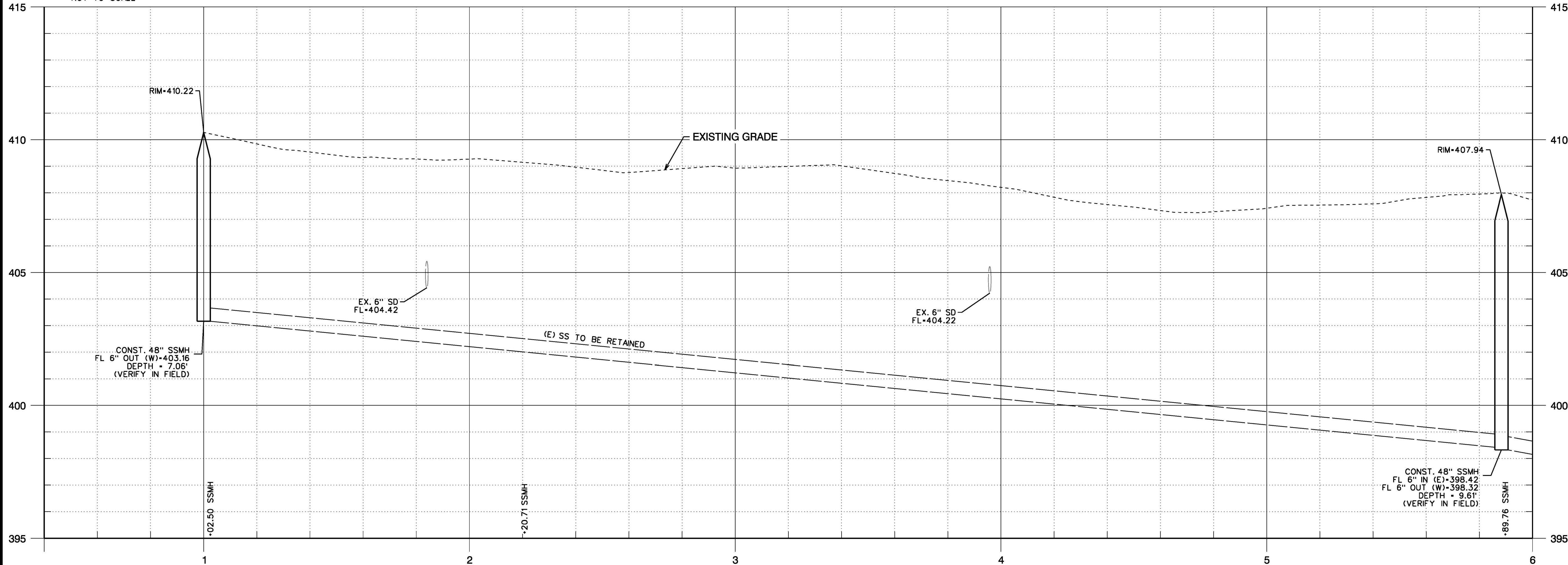
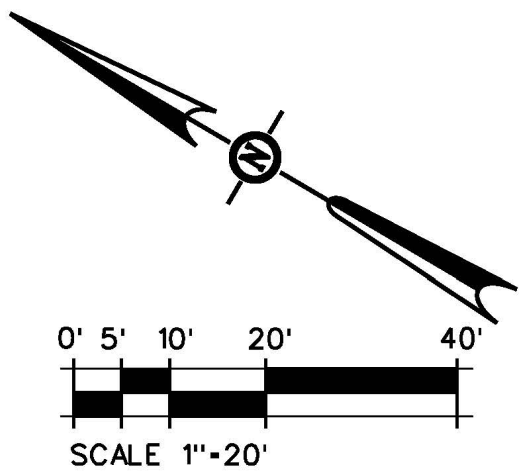
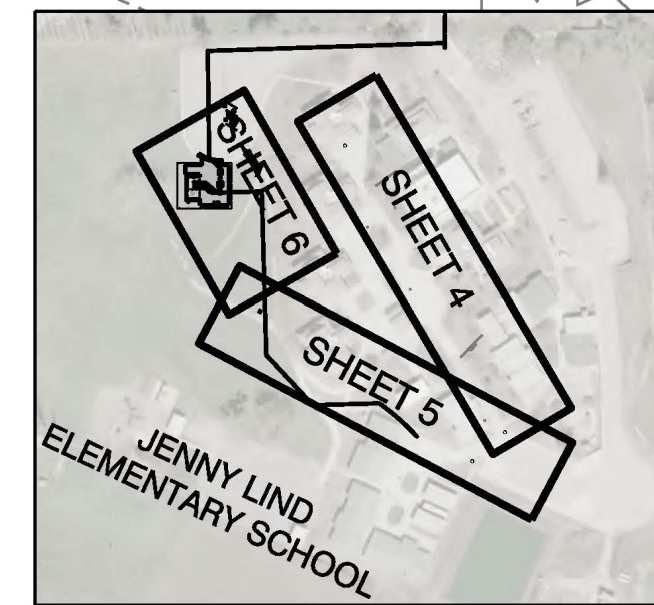
SHEET 3 OF 102

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BY: J. B. BROWN
CUT: 0.00
PLOT: 0.00



NOTE: GRAVITY SEWERS UPSTREAM OF JENNY LIND LIFT STATION OWNED BY CUSD; NOT PART OF CCWD OPERATED SEWER SYSTEM

JENNY LIND ELEMENTARY SCHOOL
SEWER IMPROVEMENTS SHOWN ON THIS SHEET SHALL BE SCHEDULED DURING JLES SPRING, SUMMER, FALL, BREAK PERIODS. REFER TO SCHOOL YEAR CALENDAR



REVISIONS		DATE	BY
NO.	DESCRIPTION		

100% RELEASE

RELEASE 4
DATE: JULY 2023

SCALE:
JOB NO. 1337-01

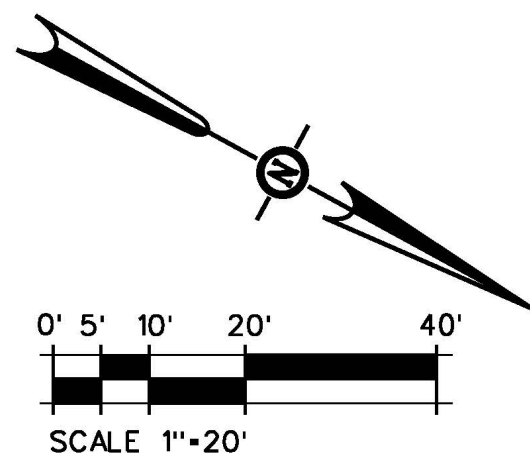
IMPROVEMENT PLANS FOR CONSTRUCTION OF
**JENNY LIND ELEMENTARY SCHOOL
WASTEWATER TREATMENT PLANT UPGRADE PROJECT**
CALAVERAS UNIFIED SCHOOL DISTRICT
CALAVERAS COUNTY

**JENNY LIND ELEMENTARY SCHOOL
STA 1+00 TO STA 6+00**

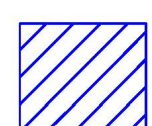
KASL
ENGINEERS
CIVIL - WATER RESOURCES - SURVEYING

7777 Greenback Lane
Suite 100
Citrus Heights, CA 95610
Tel. (916) 722-1800
Fax (916) 722-4995

SHEET 4 OF 102

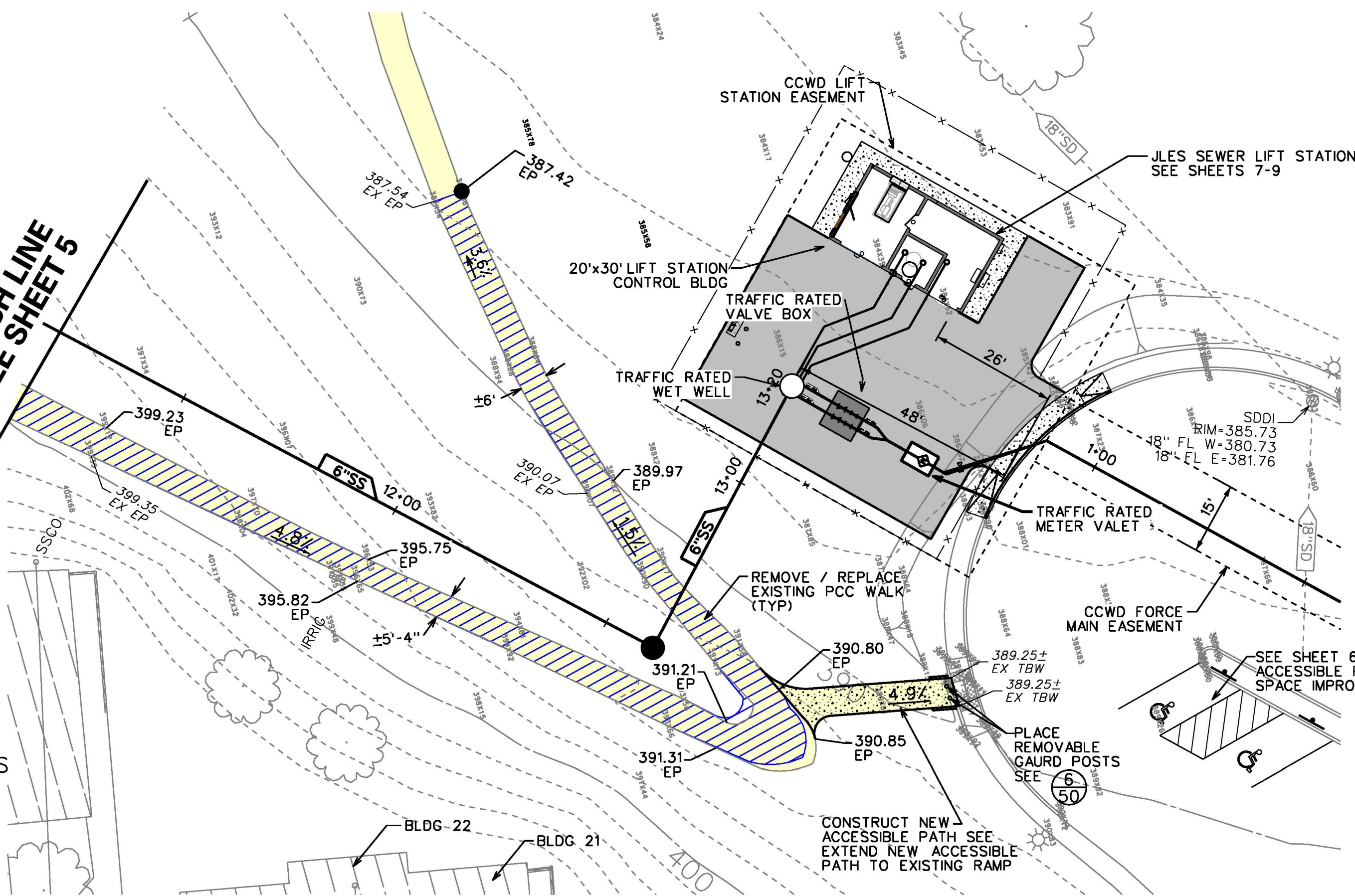


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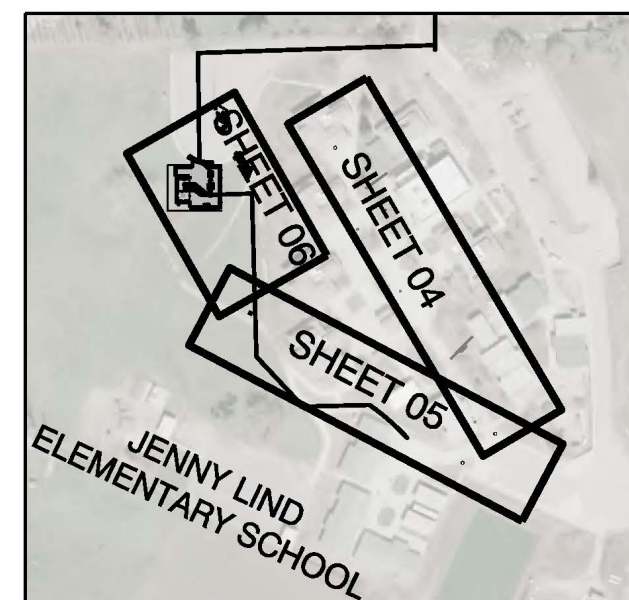
-  (E/P) PATH OF TRAVEL (POT) SLOPE%
-  PROPOSED PATH OF TRAVEL (POT) IMPROVEMENTS SEE ①/⑥

(E) JENNY LIND
ELEMENTARY SCHOOL

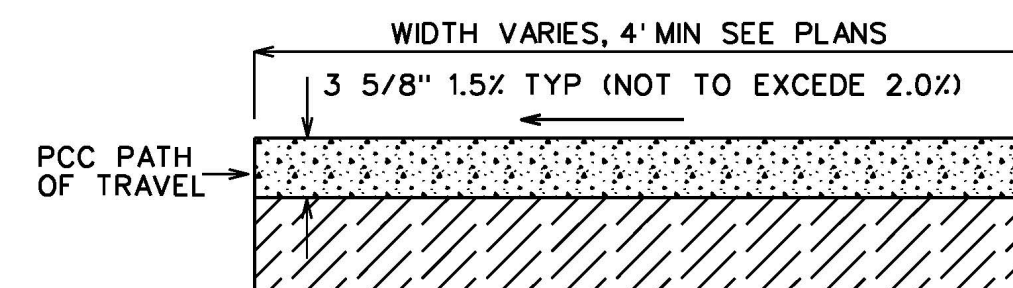
MATCH LINE
SEE SHEET 5



NOTE: GRAVITY SEWER LINES UPSTREAM OF JENNY LIND LIFT STATION ARE
CUSD OWNED; NOT PART OF CCWD OPERATED SEWER SYSTEM



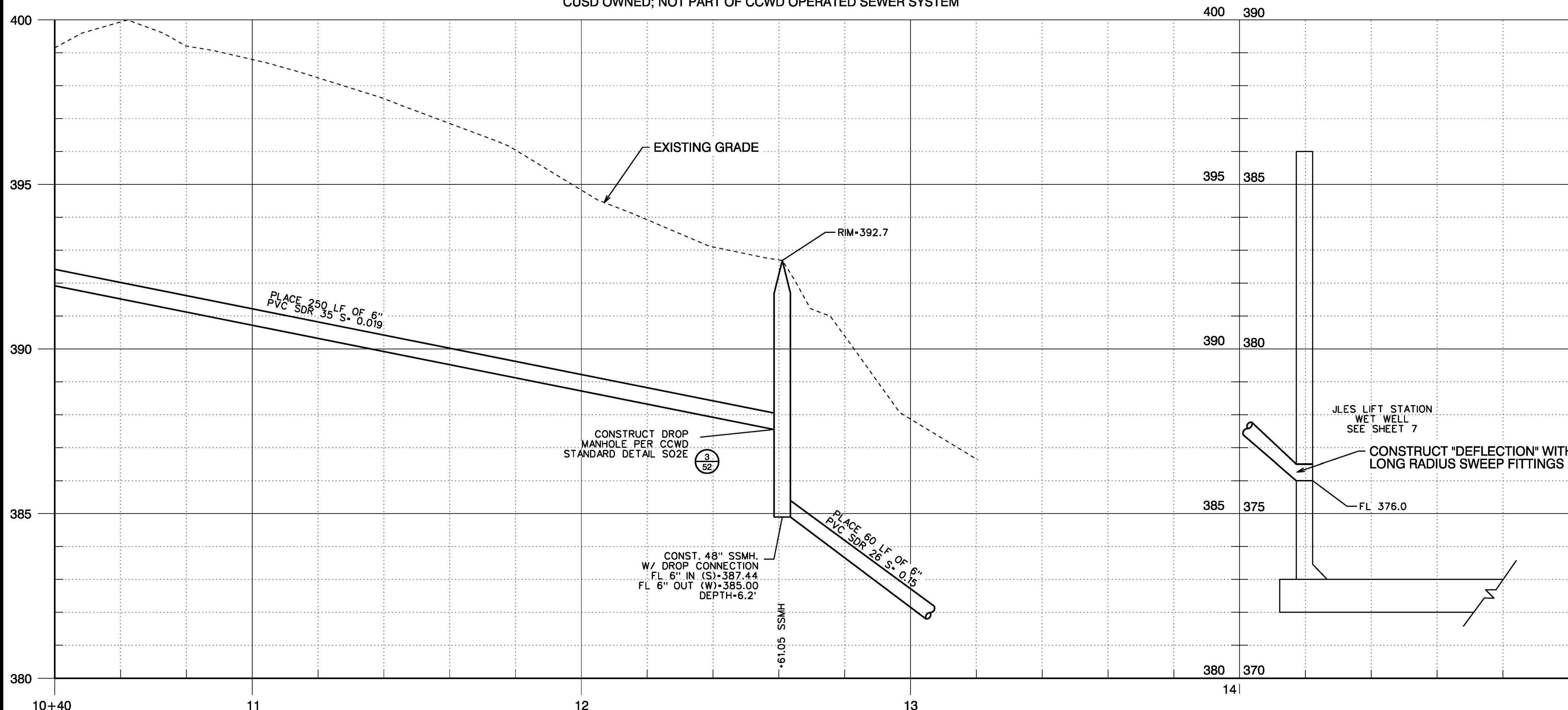
KEY MAP
NOT TO SCALE



PATH OF TRAVEL

NO SCALE

JENNY LIND ELEMENTARY SCHOOL
SEWER IMPROVEMENTS SHOWN ON THIS SHEET SHALL BE
SCHEDULED DURING JLES SPRING, SUMMER, FALL,
BREAK PERIODS, REFER TO SCHOOL YEAR CALENDAR.
WITH DISTRICT APPROVAL CONSTRUCTION AREA FENCING AND
APPROVAL OF CONTRACTOR SAFETY PLAN, JENNY LIND
ELEMENTARY SCHOOL LIFT STATION IMPROVEMENTS
MAY BE SCHEDULED DURING THE SCHOOL YEAR



NO.	REVISIONS	DESCRIPTION	DATE	BY

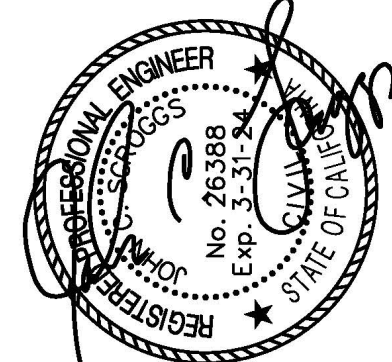
100% RELEASE

RELEASE 4

DATE: JULY 2023

SCALE:

JOB NO. 1337-01

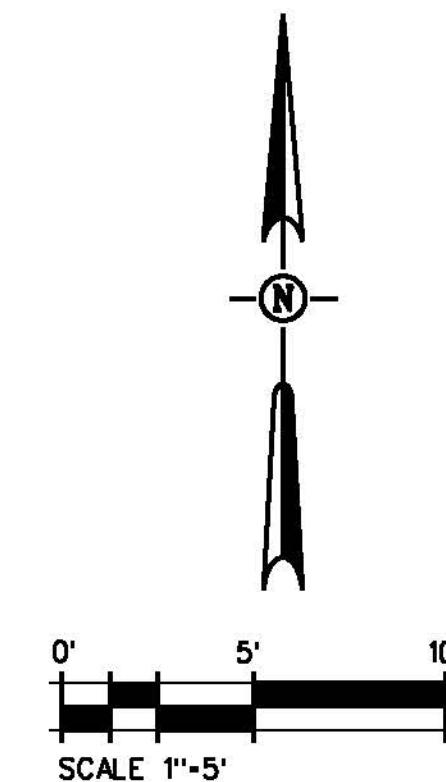
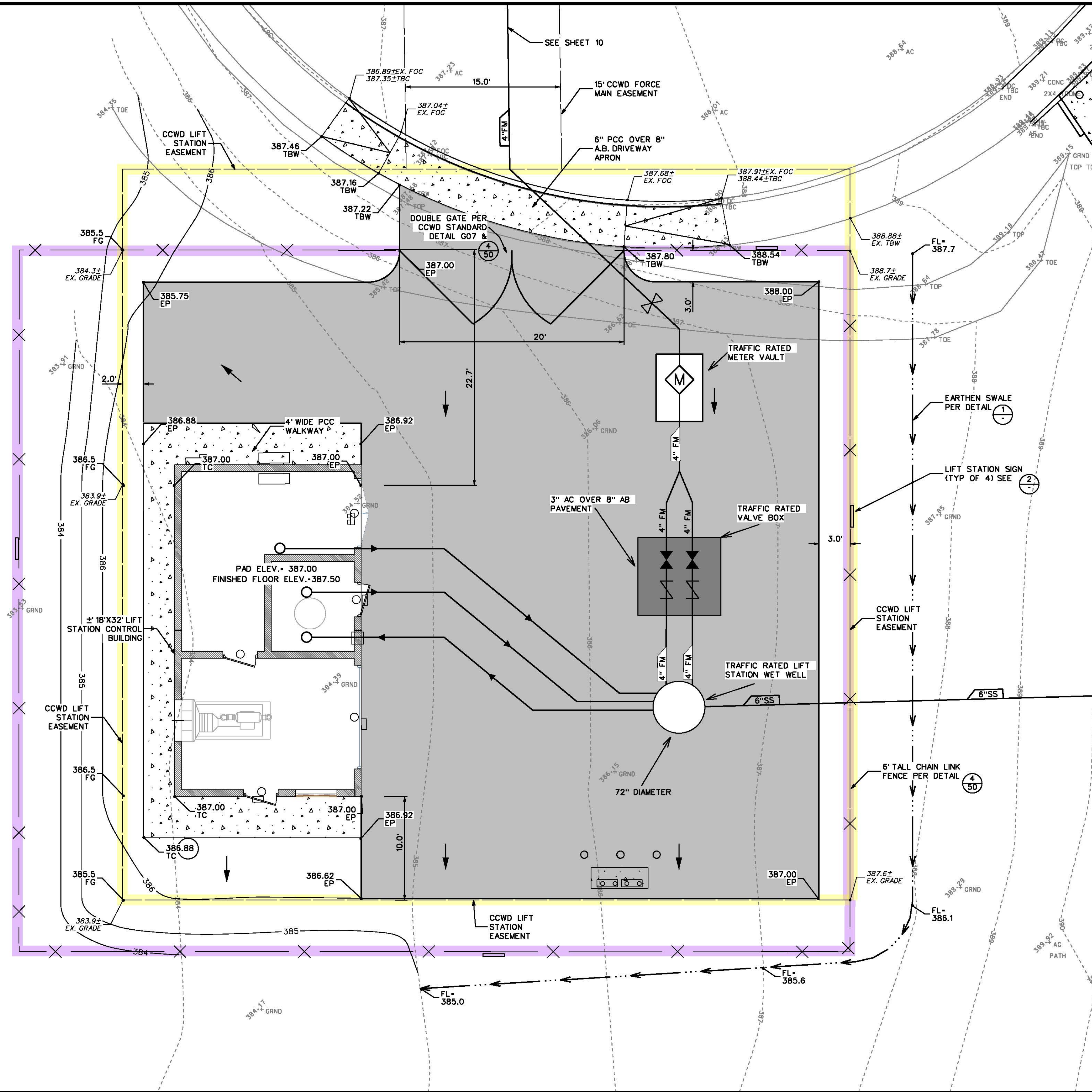


IMPROVEMENT PLANS FOR CONSTRUCTION OF
JENNY LIND ELEMENTARY SCHOOL
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CALAVERAS UNIFIED SCHOOL DISTRICT
CALAVERAS COUNTY

JENNY LIND ELEMENTARY SCHOOL
STA 11+00 TO STA 13+44

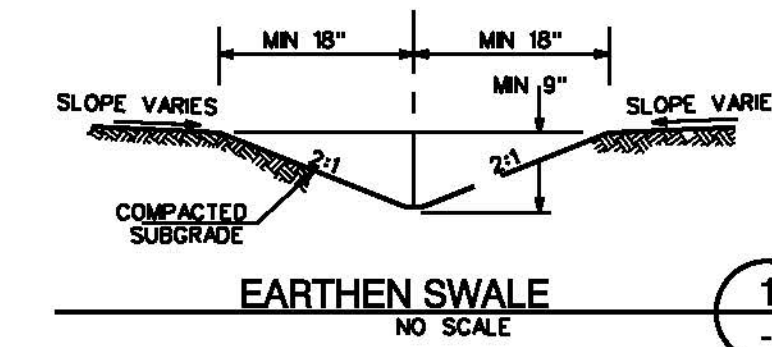


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LEGEND

- EXISTING SPOT ELEVATION
- PROPOSED SPOT ELEVATION
- SHEET FLOW ARROW
- CCWD LIFT STATION EASEMENT
- PROPOSED LIFT STATION PERIMETER FENCE ALIGNMENT



SIGN TO BE POSTED ON EACH SIDE
OF PERIMETER FENCE

RESTRICTED ENTRY SIGN
NOT TO SCALE

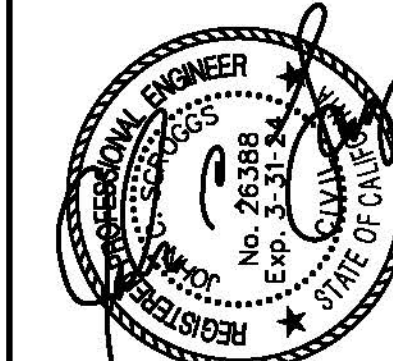
SIGN TO CONFORM TO DSA IR A-22

NO.	REVISIONS DESCRIPTION	DATE	BY

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DATE: JULY 2023

SCALE:
JOB NO. 1337-01



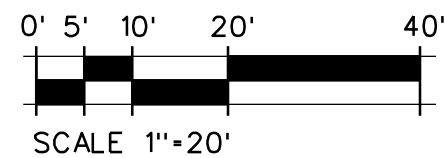
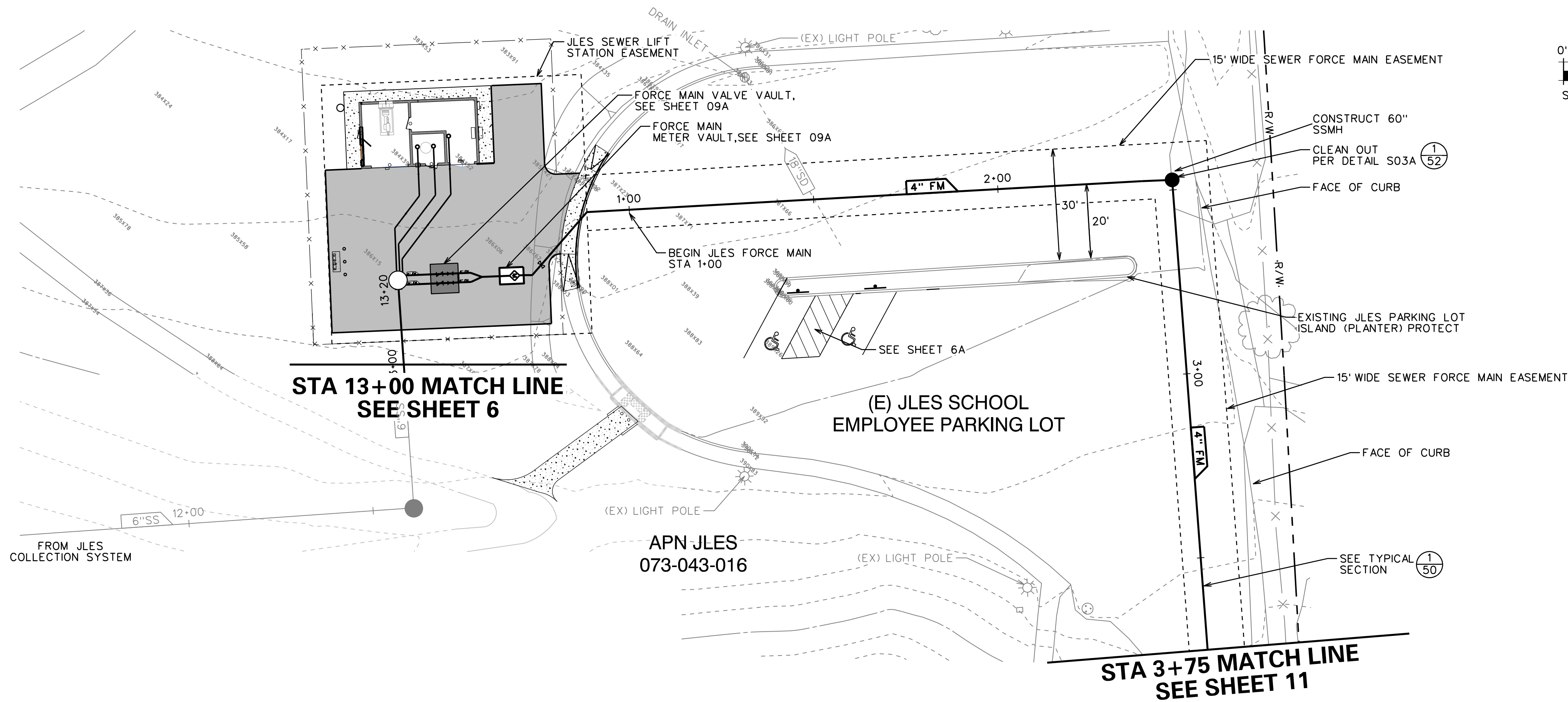
IMPROVEMENT PLANS FOR CONSTRUCTION OF
JENNY LIND ELEMENTARY SCHOOL
WASTEWATER TREATMENT PLANT UPGRADE PROJECT
CALAVERAS UNIFIED SCHOOL DISTRICT
CALAVERAS COUNTY

JLES LIFT STATION GRADING, PAVING, AND
FENCING PLAN

CONSULTING
KASL
ENGINEERS
CIVIL - WATER RESOURCES - SURVEYING

7777 Greenback Lane
Suite 104
Climax Heights, CA 95910
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Fax: (916) 722-4996

FILE: S:\1337-00 Jenny Lind Elem. School\Plan's\01 PLAN 1.dwg
DATE: 10/26/2017 10:47:00 AM
BY: J. B. B. (JLB)
C:\Users\jlb\OneDrive\Documents\1337-00 Jenny Lind Elem. School\Plan's\01 PLAN 1.dwg

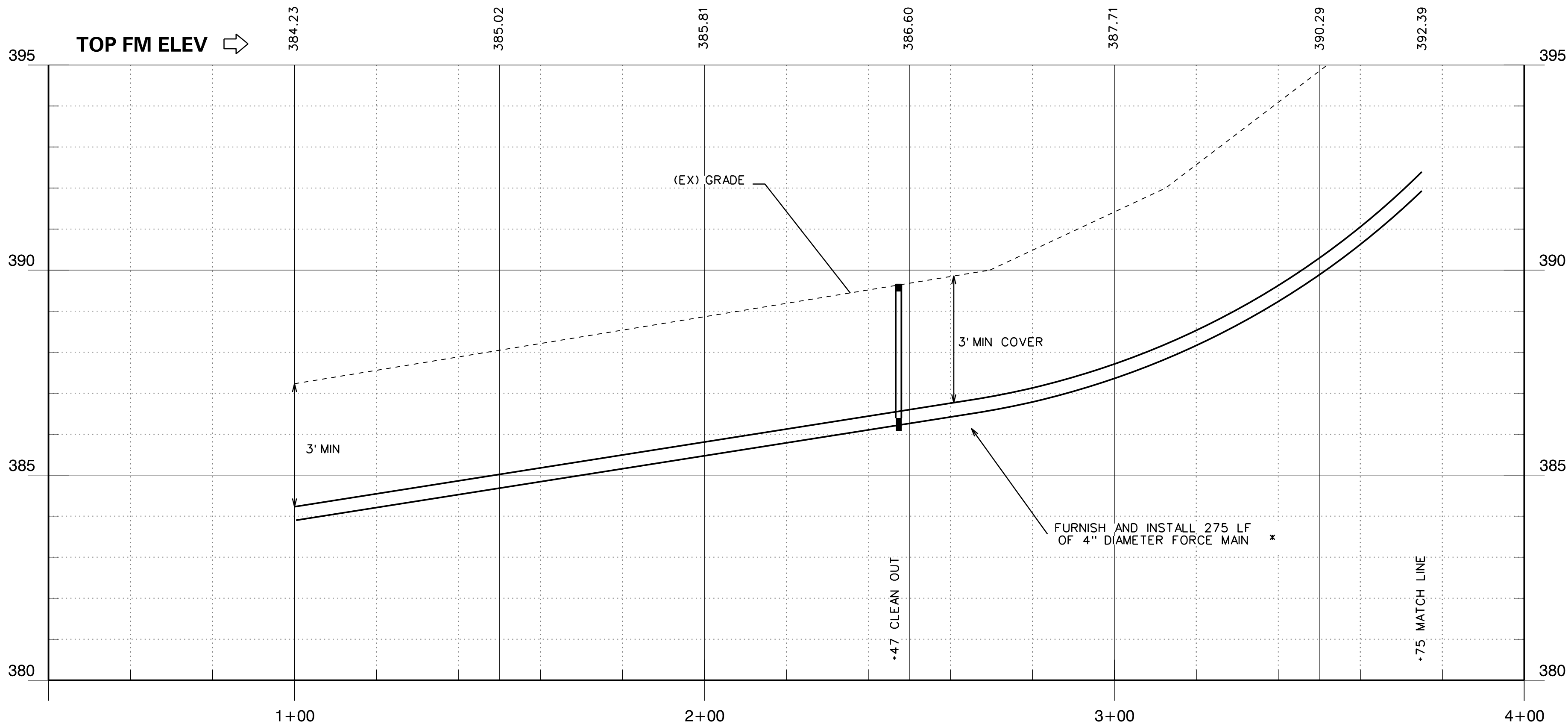


NOTE: JENNY LIND ELEMENTARY SCHOOL
SEWER IMPROVEMENTS SHOWN ON THIS SHEET SHALL BE
SCHEDULED DURING JLES SPRING, SUMMER, FALL,
BREAK PERIODS. REFER TO SCHOOL YEAR CALENDAR

* CONTRACTOR MAY FURNISH:
-CLASS 350 DIP
-PVC C900 PC 160
-HDPE DR 13.5 (160 PSI)
PIPE MATERIAL FOR THE 4" DIAMETER FORCE MAIN.
FORCE MAIN PIPE MATERIAL SELECTED SHALL BE
INSTALLED UNIFORMLY THROUGHOUT THE PROJECT.

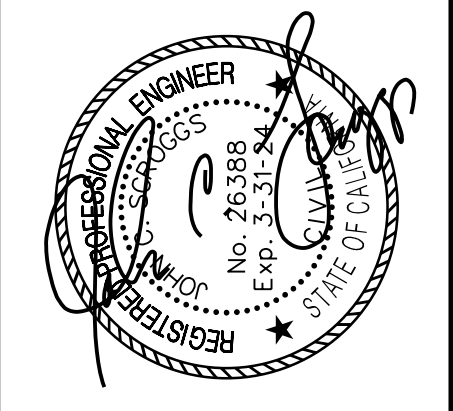
FORCE MAIN JOINT RESTRAINED NOTE

CONTRACTOR SHALL MECHANICALLY RESTRAIN ALL JOINTS
(PIPE AND FITTINGS) AGAINST THRUST AT AIR VALVES,
CLEANOUTS, ETC. AND OTHER LOCATIONS WHERE
MECHANICAL RESTRAINT IS NOTED ON THE PLANS. ALL
FITTINGS SHALL BE RESTRAINED AGAINST THRUST FORCES
USING MECHANICAL THRUST RESTRAINT GLANDS (SECURING
THE FITTING TO THE ADJACENT PIPING) OR CONCRETE
THRUST BLOCKS PER CCWD STANDARD DETAILS



NO.	REVISIONS	
	DESCRIPTION	DATE BY

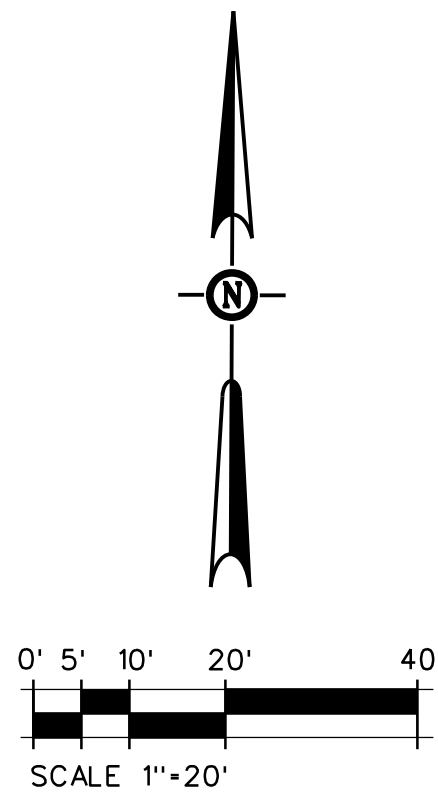
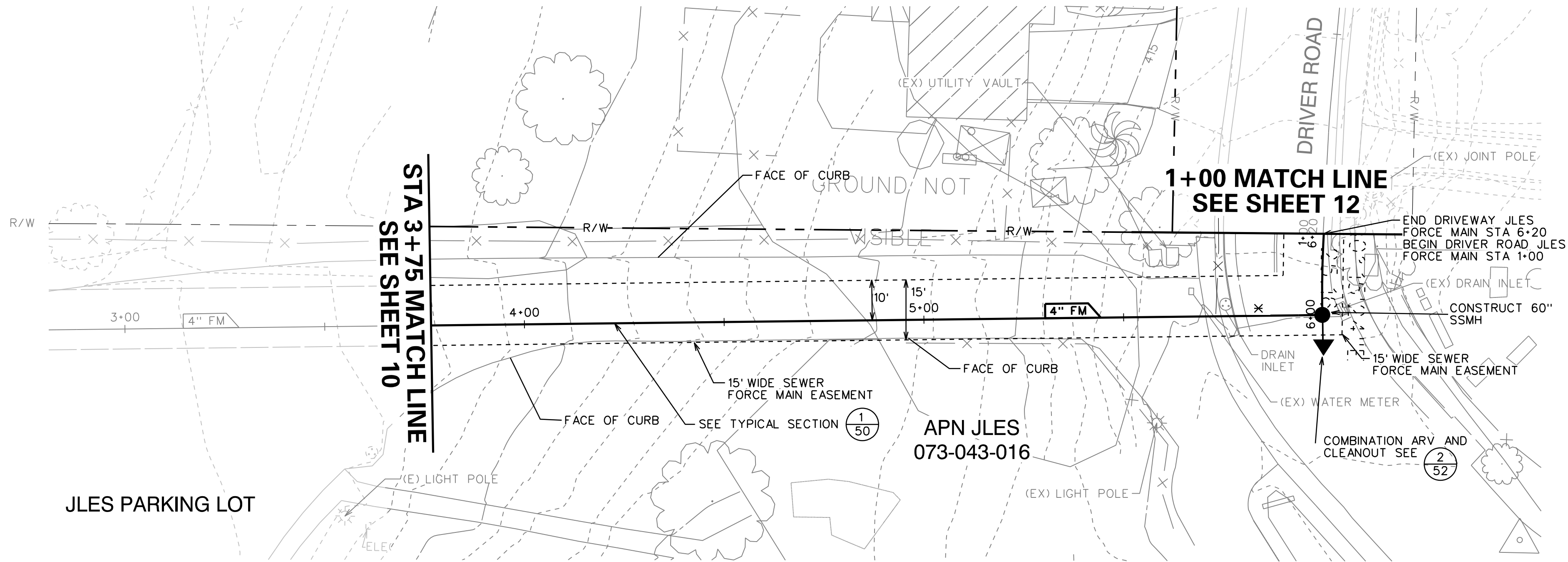
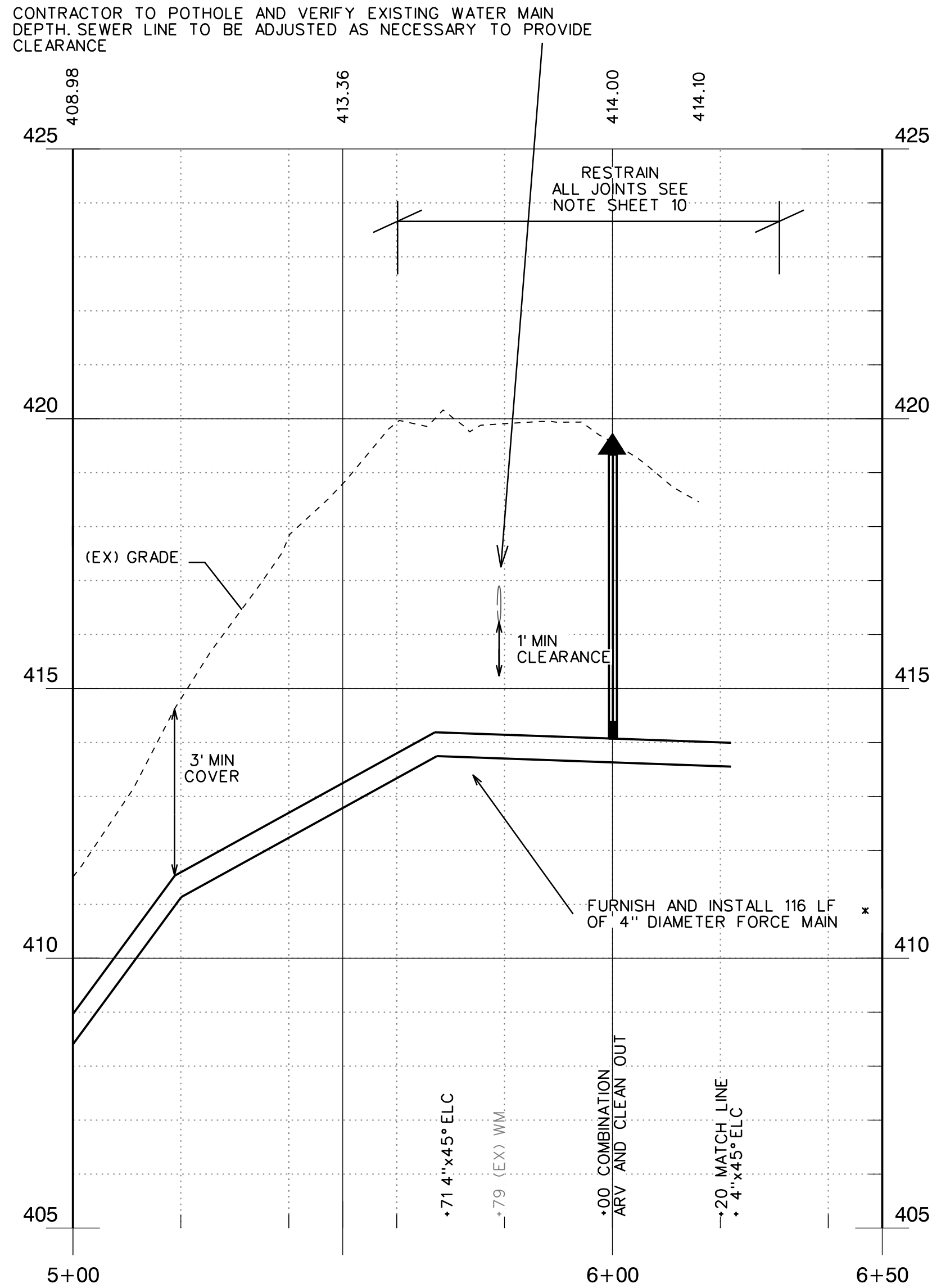
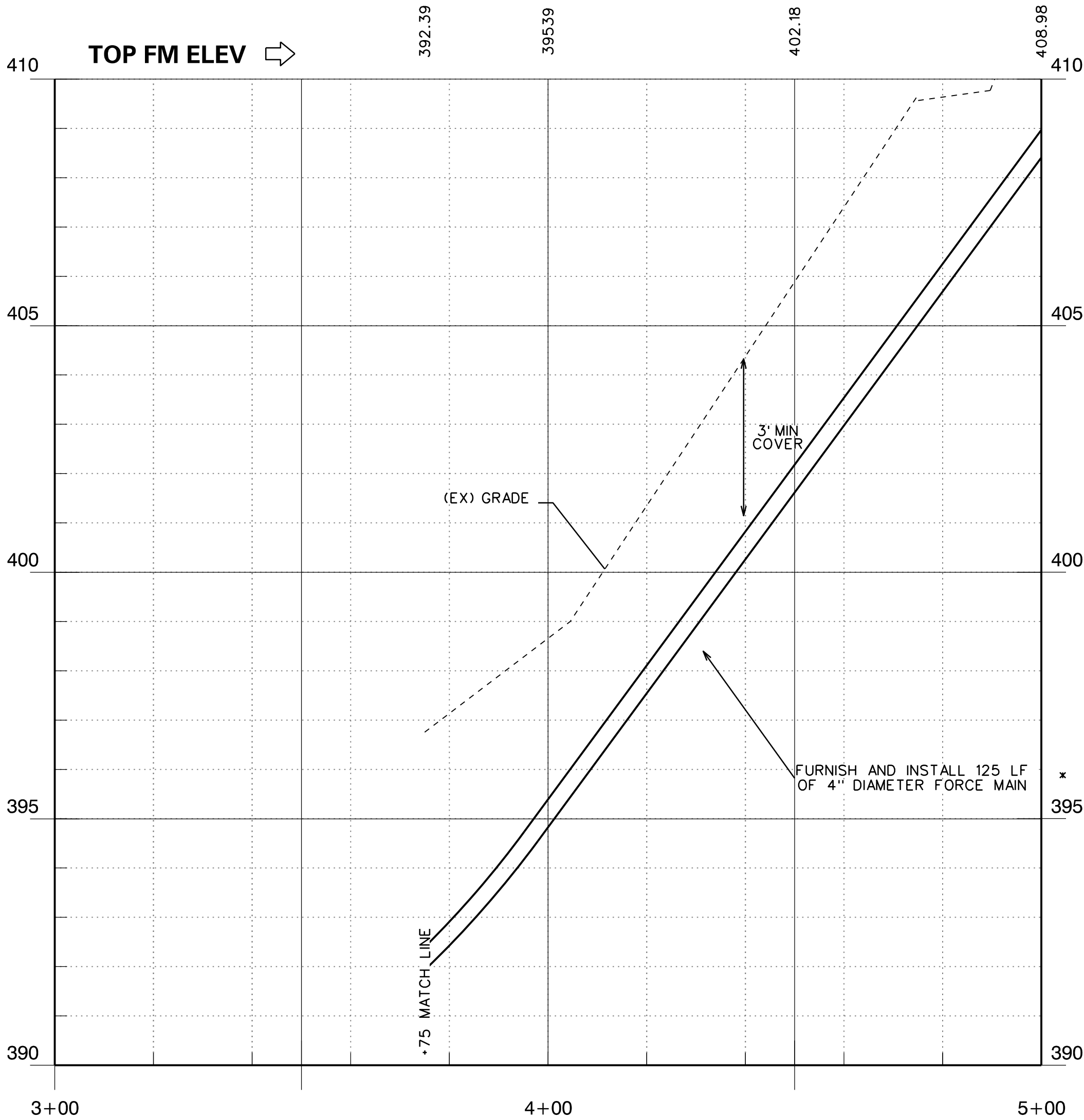
100% RELEASE		RELEASE 4	DATE: JULY 2023
		SCALE: 1"=20'	JOB NO. 1337-01



IMPROVEMENT PLANS FOR CONSTRUCTION OF JENNY LIND ELEMENTARY SCHOOL WASTEWATER TREATMENT PLANT UPGRADE PROJECT CALAVERAS UNIFIED SCHOOL DISTRICT CALAVERAS COUNTY	JLES PARKING LOT STA 1+00 TO STA 3+75

CONSULTING KASL ENGINEERS	7777 Greenback Lane Suite 104 Citrus Heights, CA 95610 Tel: (916) 722-1800 Fax: (916) 722-4595
--	--

FILE: S:\1337-01 Jenny Lind Elem. School Plans\11 FM PL.dwg, 2 Sep.
PLOT: 11 FM PL.dwg, 9/13/22 2:01 pm, User: jenny, Plot Date: 9/13/22 2:01 pm
CUT: 11 FM PL.dwg, 9/13/22 2:01 pm, User: jenny, Plot Date: 9/13/22 2:01 pm



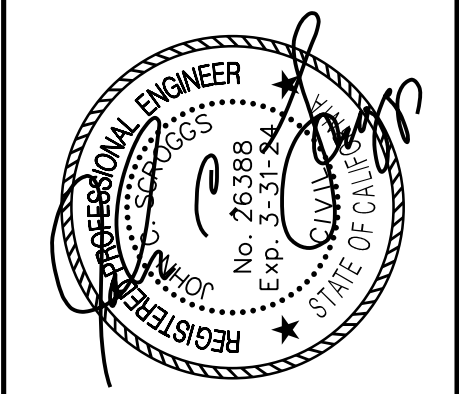
NOTE: JENNY LIND ELEMENTARY SCHOOL SEWER IMPROVEMENTS SHOWN ON THIS SHEET SHALL BE SCHEDULED DURING JLES SPRING, SUMMER, FALL, BREAK PERIODS. REFER TO SCHOOL YEAR CALENDAR

* CONTRACTOR MAY FURNISH:
-CLASS 350 DIP
-PVC C900 PC 160
-HOPE DR 13.5 (160 PSI)
PIPE MATERIAL FOR THE 4" DIAMETER FORCE MAIN.
FORCE MAIN PIPE MATERIAL SELECTED SHALL BE
INSTALLED UNIFORMLY THROUGHOUT THE PROJECT.

CONTRACTOR TO POTHOLE AND VERIFY EXISTING WATER MAIN
DEPTH. SEWER LINE TO BE ADJUSTED AS NECESSARY TO PROVIDE
CLEARANCE

NO.	REVISIONS	
	DESCRIPTION	DATE BY

100% RELEASE		RELEASE 4	DATE: JULY 2023
		SCALE:	
JOB NO. 1337-01			



IMPROVEMENT PLANS FOR CONSTRUCTION OF
**JENNY LIND ELEMENTARY SCHOOL
WASTEWATER TREATMENT PLANT UPGRADE PROJECT**
CALAVERAS UNIFIED SCHOOL DISTRICT
CALAVERAS COUNTY

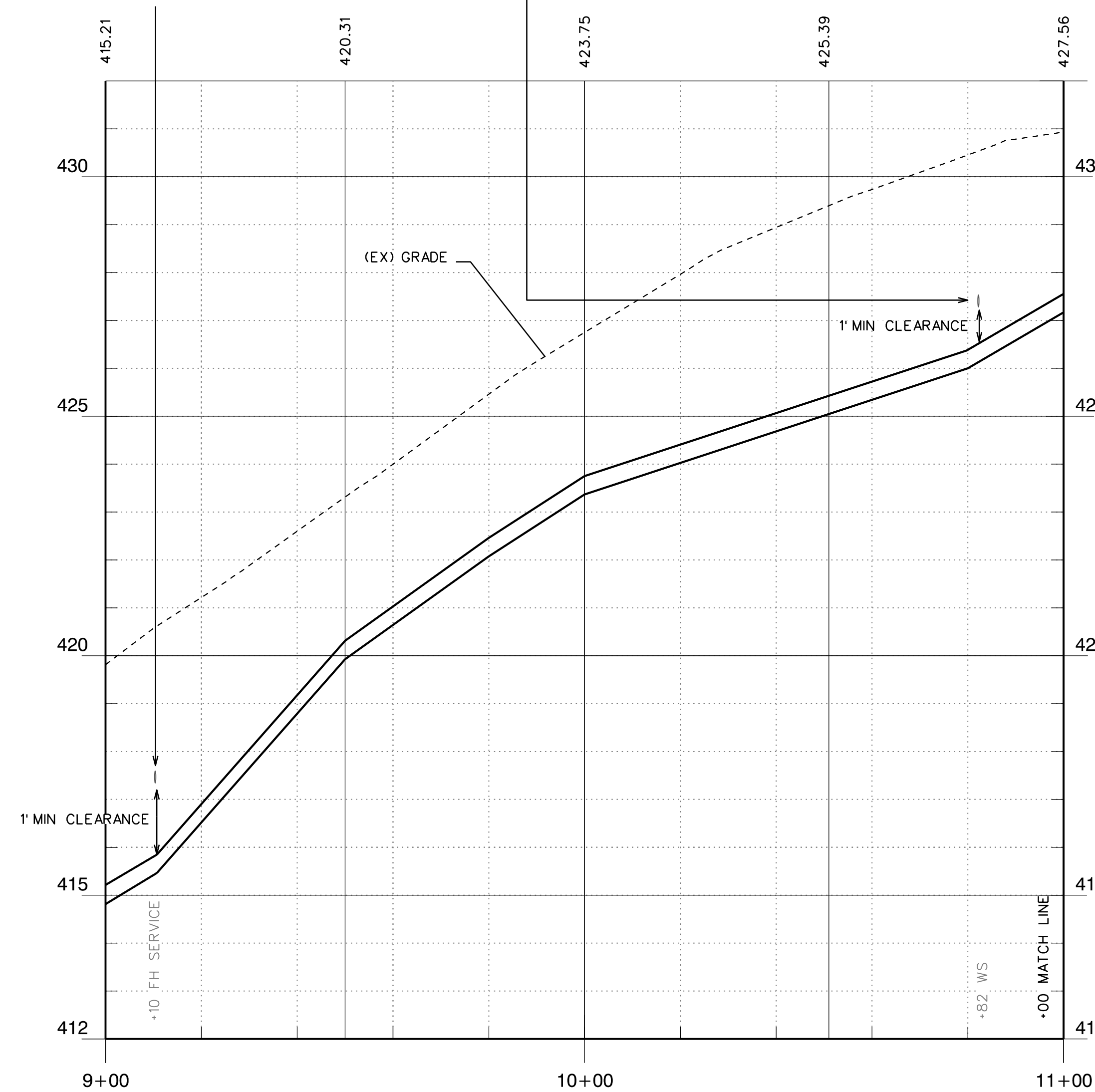
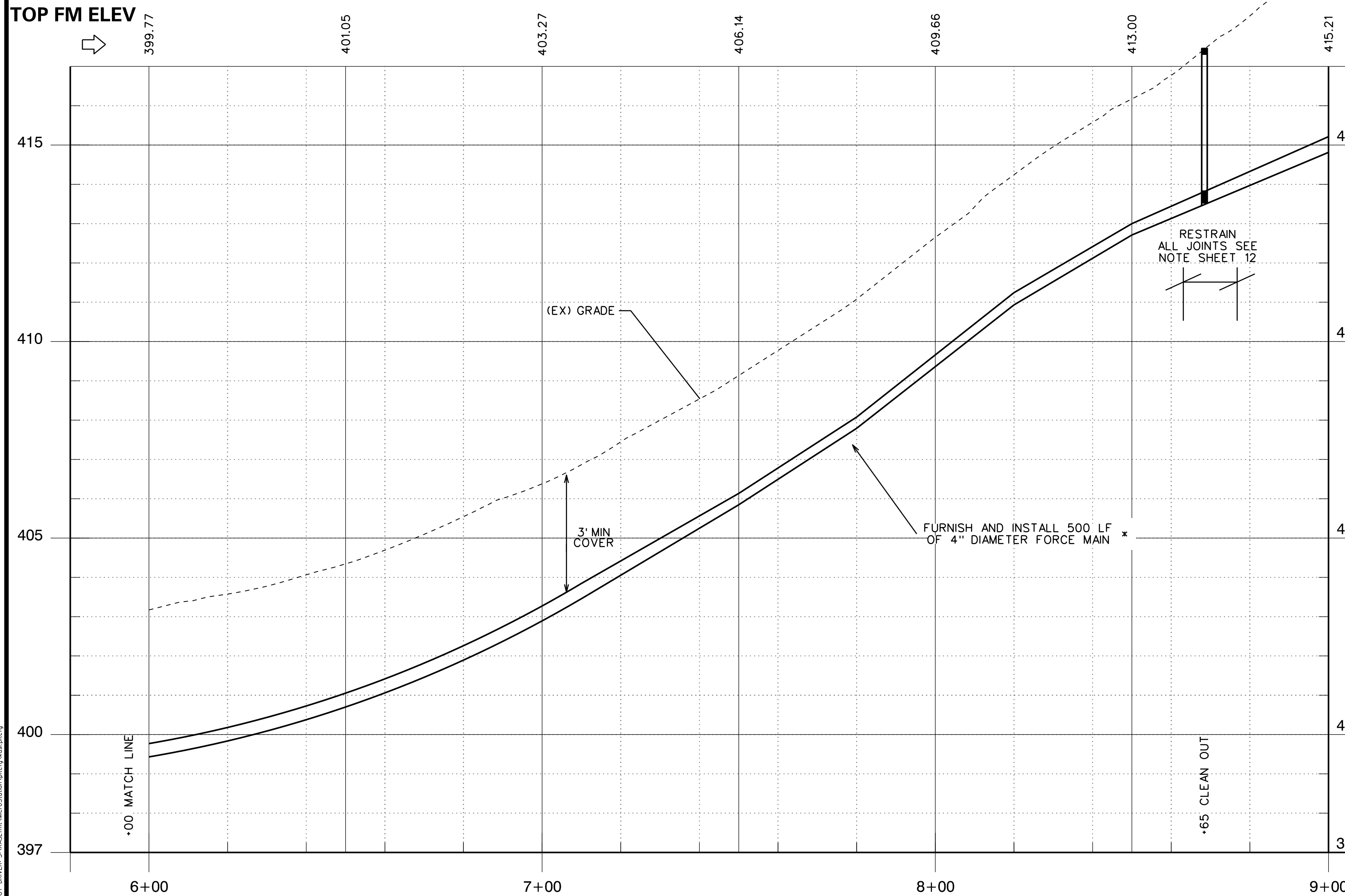
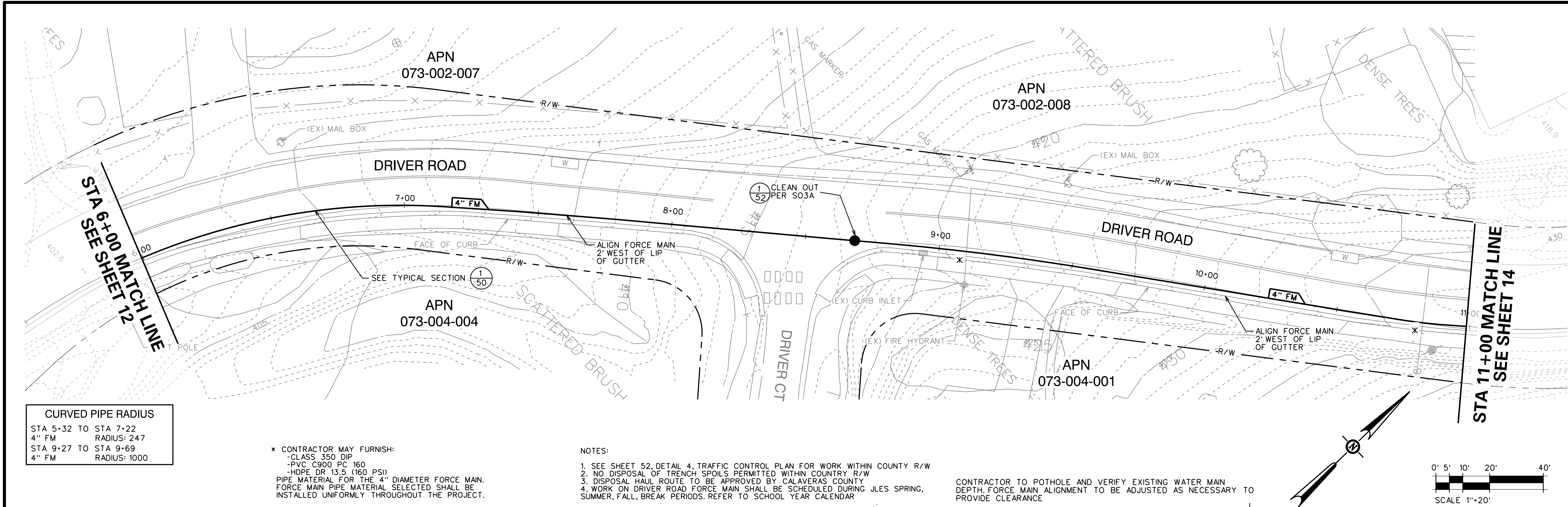
**JLES DRIVEWAY
STA 3+75 TO 6+16**

CONSULTING
KASL
ENGINEERS

7777 Greenback Lane
Suite 104
Citrus Heights, CA 95610
Tel: (916) 722-1800
Fax: (916) 722-4595

CIVIL - WATER RESOURCES - SURVEYING

FILE: S:\1337-00\Jenny Lind Elem. School\Plan\13 Plan 4.dgn
DATE: 06/29/2017 09:47:00 User: jenny.lind
C:\Users\jenny.lind\AppData\Local\Autodesk\AutoCAD 2017\AutoCAD.Application\AutoCAD.exe



REVISIONS		DATE		BY	
NO.	DESCRIPTION				

100% RELEASE

RELEASE 4
DATE: JULY 2023

SCALE:
JOB NO. 1337-01

PROFESSIONAL ENGINEER
JENNY LIND
No. 26388
Exp. 3-31-24
STATE OF CALIFORNIA

IMPROVEMENT PLANS FOR CONSTRUCTION OF
**JENNY LIND ELEMENTARY SCHOOL
WASTEWATER TREATMENT PLANT UPGRADE PROJECT**
CALAVERAS UNIFIED SCHOOL DISTRICT
CALAVERAS COUNTY

**DRIVER ROAD
STA 6+00 TO STA 11+00**

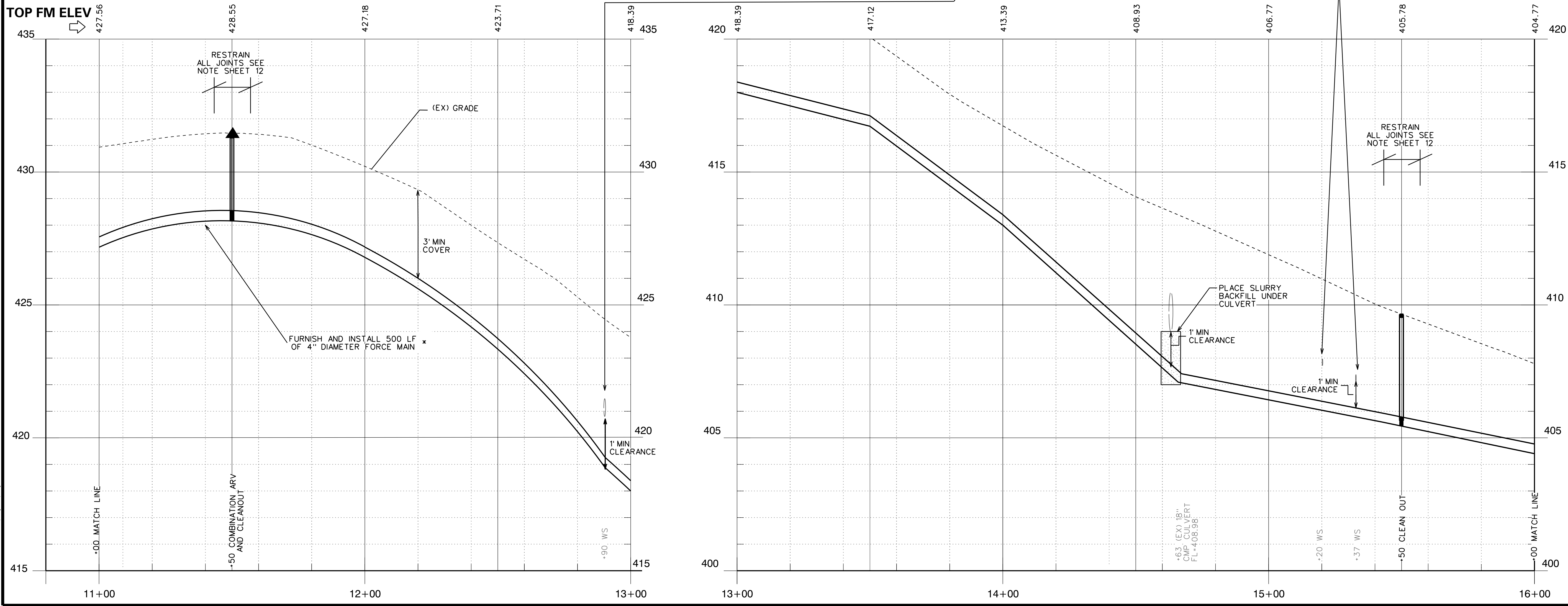
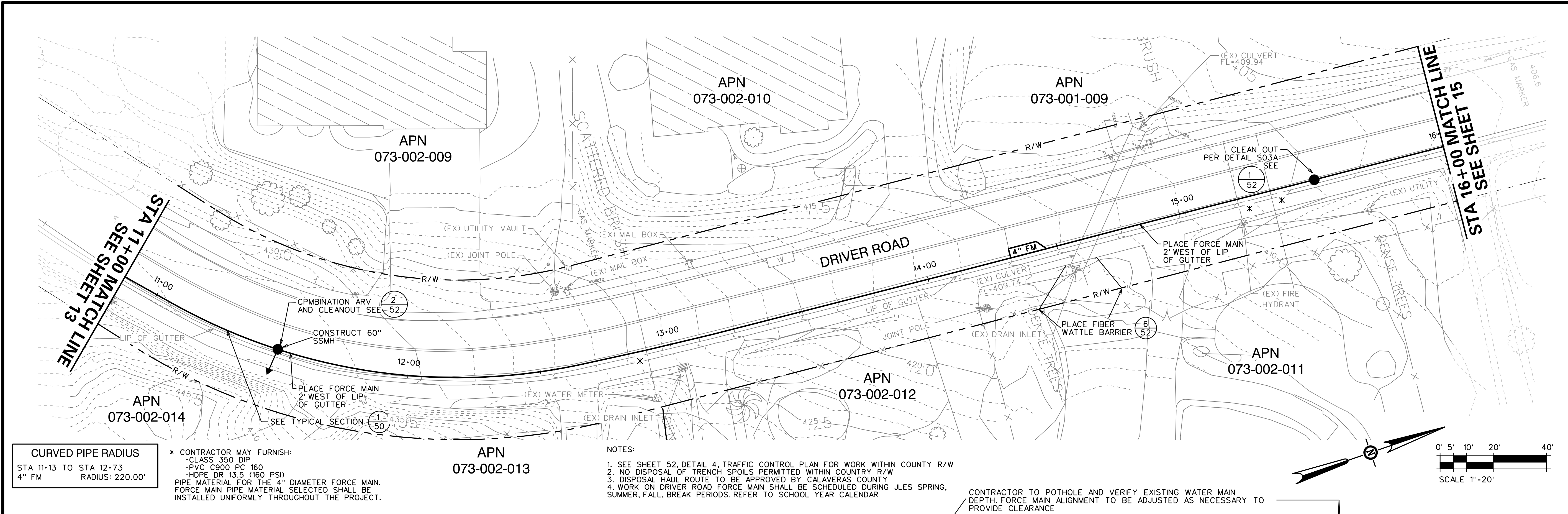
KASL
ENGINEERS

7777 Greenback Lane
Suite 104
Citrus Heights, CA 95610
Tel: (916) 722-1800
Fax: (916) 722-4995

CIVIL - WATER RESOURCES - SURVEYING

SHEET 13 OF 102

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DATE: 06/29/2017 10:47:47 AM User: jenny.lind
CUT: 0.00' 0.00' 0.00' 0.00' 0.00' 0.00' 0.00' 0.00' 0.00' 0.00'



REVISIONS		DATE		BY	
NO.	DESCRIPTION				

100% RELEASE

RELEASE 4

DATE: JULY 2023

SCALE: 1"=20'

JOB NO. 1337-01

IMPROVEMENT PLANS FOR CONSTRUCTION OF
JENNY LIND ELEMENTARY SCHOOL
WASTEWATER TREATMENT PLANT UPGRADE PROJECT
CALAVERAS UNIFIED SCHOOL DISTRICT
CALAVERAS COUNTY

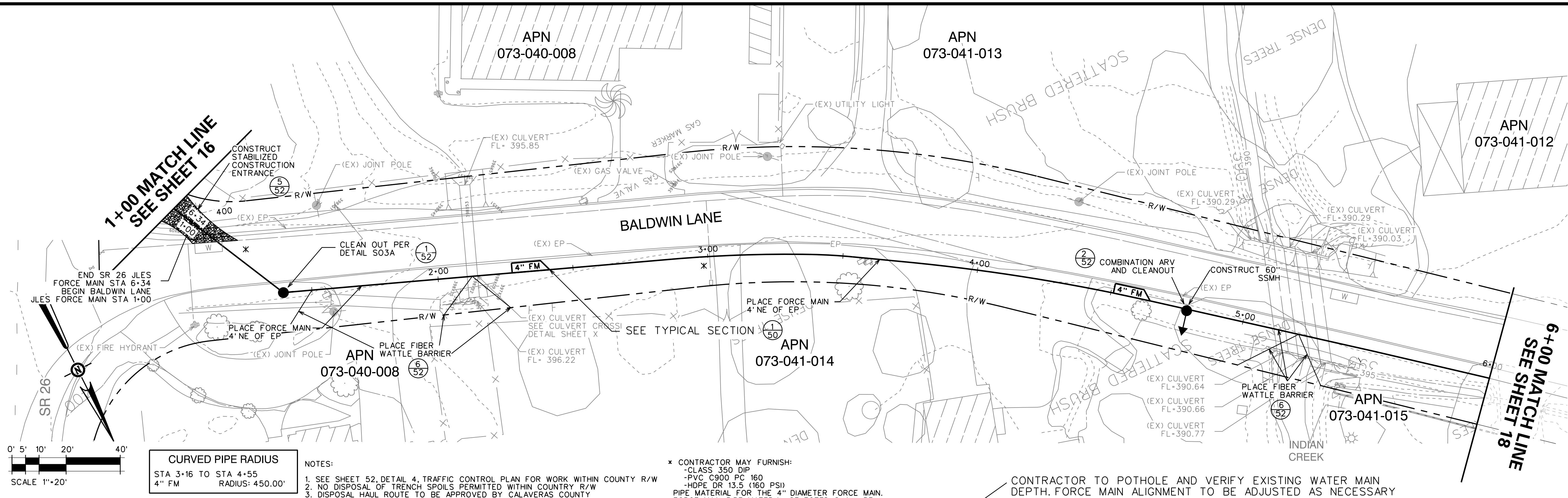
7777 Greenback Lane
Suite 104
Citrus Heights, CA 95610
Tel: (916) 722-1800
Fax: (916) 722-4995

CONSULTING
KASL
ENGINEERS

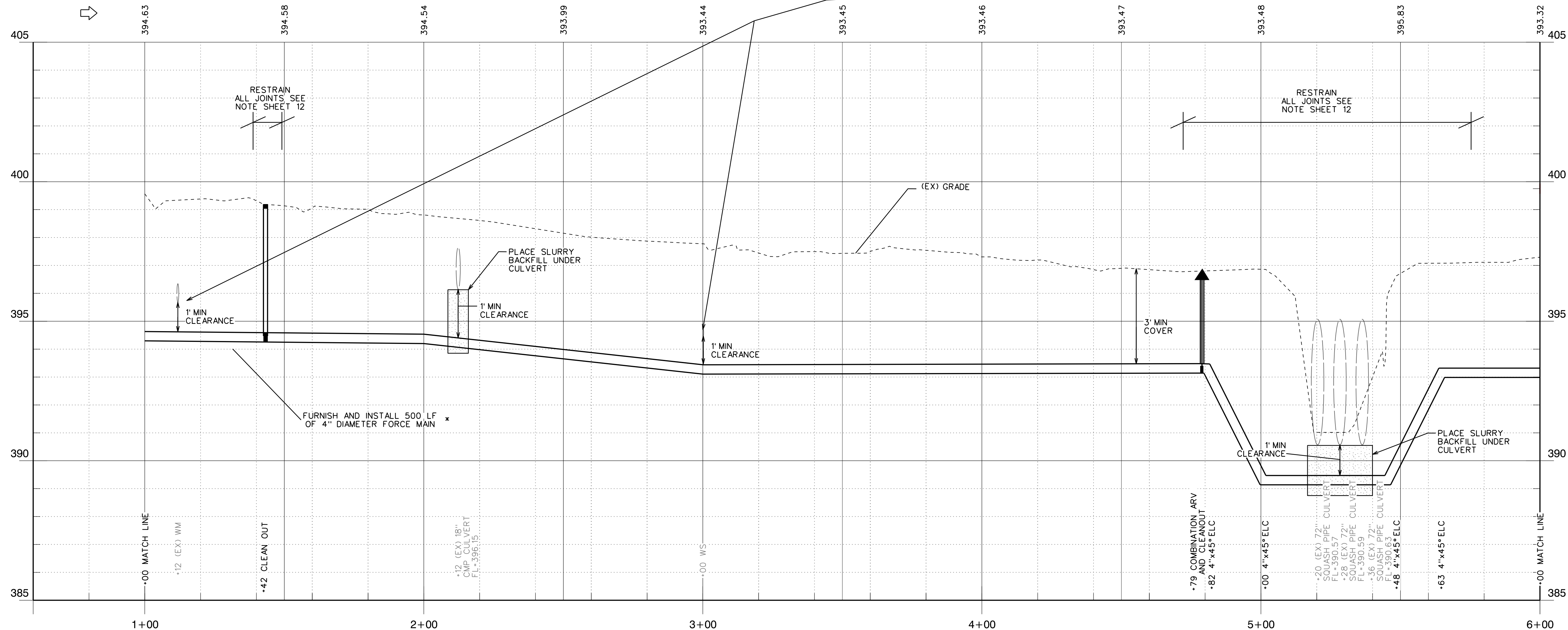
CIVIL - WATER RESOURCES - SURVEYING

SHEET 14 OF 102

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TOP FM ELEV



REVISIONS		DATE	BY
NO.	DESCRIPTION		

100% RELEASE

RELEASE 4

DATE: JULY 2023

SCALE:

JOB NO. 1337-01

REGISTERED PROFESSIONAL ENGINEER
JOHN J. GOSSETT
No. 26388
Exp. 3-31-14
DATE OF CALCULATION
11/26/2013

IMPROVEMENT PLANS FOR CONSTRUCTION OF
JENNY LIND ELEMENTARY SCHOOL
WASTEWATER TREATMENT PLANT UPGRADE PROJECT
CALAVERAS UNIFIED SCHOOL DISTRICT
CALAVERAS COUNTY

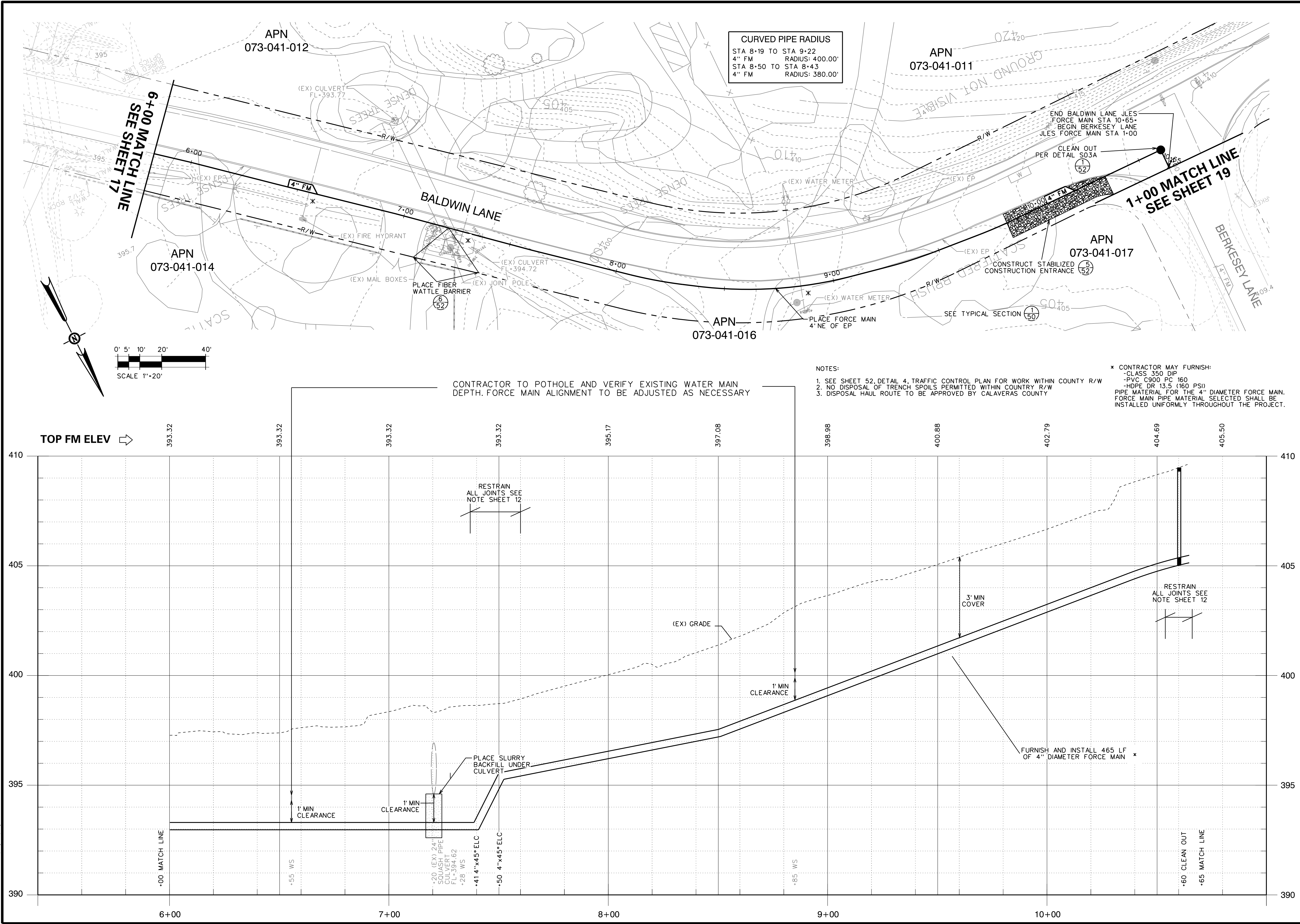
BALDWIN LANE
STA 1+00 TO STA 6+00

CONSULTING
KASL
ENGINEERS

7777 Greenback Lane
Suite 104
Citrus Heights, CA 95610
Tel. (916) 722-1800
Fax (916) 722-4995

SHEET 17 OF 102

FILE: S:\1337-00\Jenny Lind Elem. School\Plan\18 PLN 9.dgn
DATE: 11/06/2013 10:21:47 AM User: jenny.lind
C:\Users\jenny.lind\Documents\1337-00\Jenny Lind Elem. School\Plan\18 PLN 9.dgn



REVISIONS		DATE	BY
NO.	DESCRIPTION		

100% RELEASE

RELEASE 4
DATE: JULY 2023

SCALE: 1"=20'
JOB NO. 1337-01

REGISTERED PROFESSIONAL ENGINEER
J. L. GREENBACK
No. 26388
Exp. 3-31-14
STATE OF CALIFORNIA

IMPROVEMENT PLANS FOR CONSTRUCTION OF
**JENNY LIND ELEMENTARY SCHOOL
WASTEWATER TREATMENT PLANT UPGRADE PROJECT**
CALAVERAS UNIFIED SCHOOL DISTRICT
CALAVERAS COUNTY

**BALDWIN LANE
STA 6+00 TO STA 10+77**

KASL
ENGINEERS

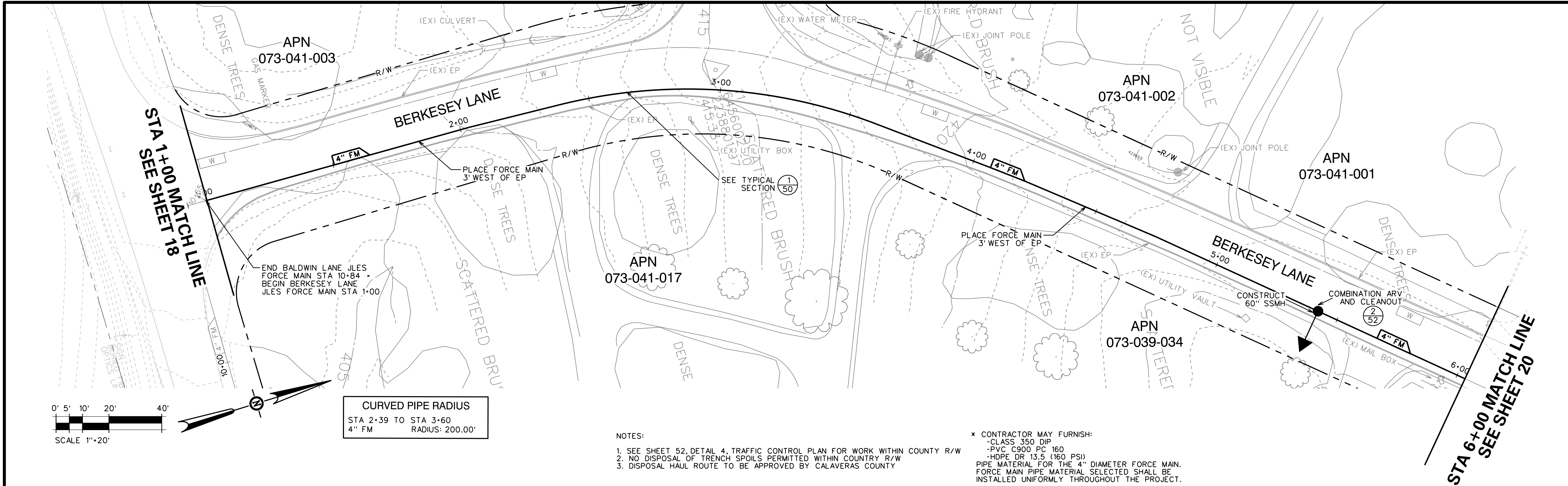
7777 Greenback Lane
Suite 104
Citrus Heights, CA 95610
Tel: (916) 722-1800
Fax: (916) 722-4995

CIVIL - WATER RESOURCES - SURVEYING

SHEET 18

OF 102

FILE: S:\1337-00\Jenny Lind Elem. School\Plan\19 FM PLAN 19.dgn
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DRAWN BY: J. B. BROWN
CHECKED BY: J. B. BROWN
SCALE: 1"=20'

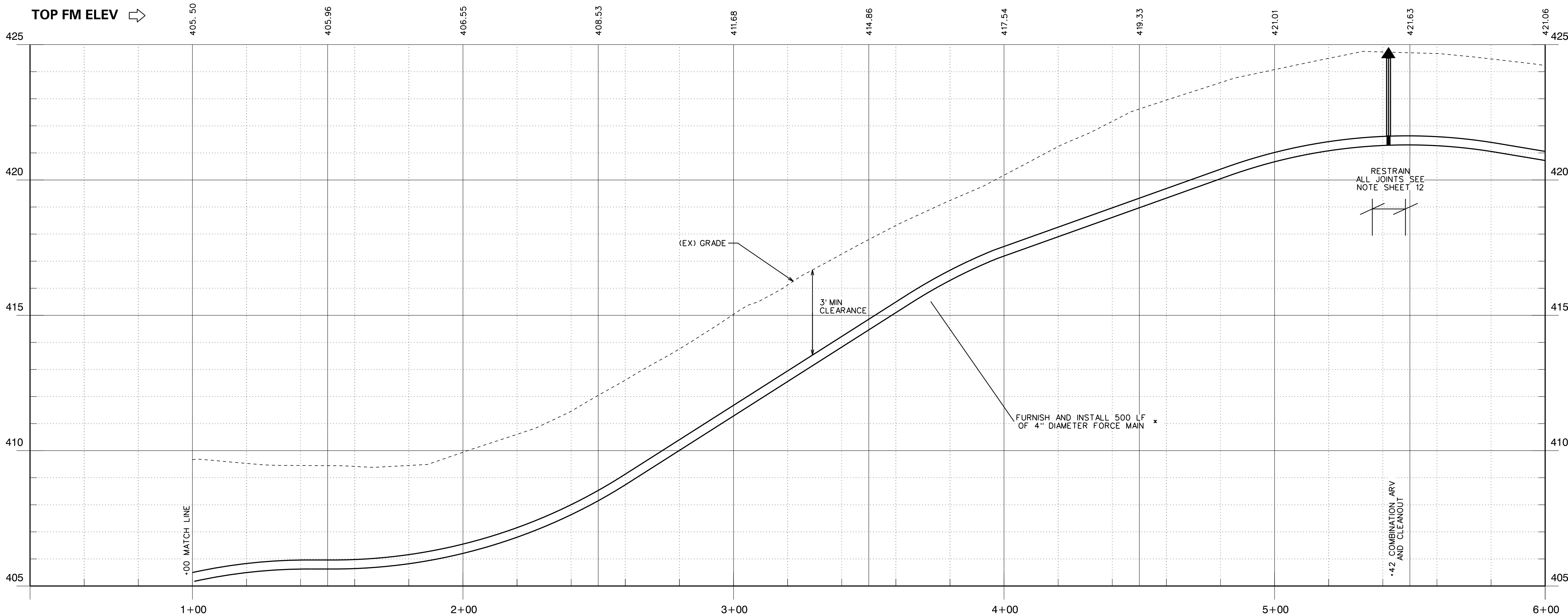


NOTES:

1. SEE SHEET 52, DETAIL 4, TRAFFIC CONTROL PLAN FOR WORK WITHIN COUNTY R/W
2. NO DISPOSAL OF TRENCH SPOILS PERMITTED WITHIN COUNTRY R/W
3. DISPOSAL HAUL ROUTE TO BE APPROVED BY CALAVERAS COUNTY

* CONTRACTOR MAY FURNISH:

- CLASS 350 DIP
- PVC C900 PC 160
- HDPE DR 13.5 (160 PSI)
- PIPE MATERIAL FOR THE 4" DIAMETER FORCE MAIN.
- FORCE MAIN PIPE MATERIAL SELECTED SHALL BE INSTALLED UNIFORMLY THROUGHOUT THE PROJECT.



REVISIONS		DATE		BY	
NO.	DESCRIPTION				

100% RELEASE

RELEASE 4

DATE: JULY 2023

SCALE:

JOB NO. 1337-01

PROFESSIONAL ENGINEER

JOHN J. BROWN

NO. 26388

EXP. 3-31-24

STATE OF CALIFORNIA

IMPROVEMENT PLANS FOR CONSTRUCTION OF

JENNY LIND ELEMENTARY SCHOOL

WASTEWATER TREATMENT PLANT UPGRADE PROJECT

CALAVERAS UNIFIED SCHOOL DISTRICT

CALAVERAS COUNTY

CONSULTING

KASL

ENGINEERS

CIVIL - WATER RESOURCES - SURVEYING

7777 Greenback Lane

Suite 104

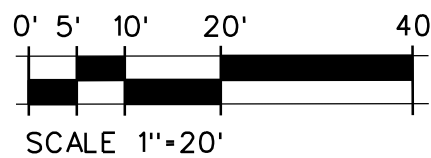
Citrus Heights, CA 95610

Tel: (916) 722-1800

Fax: (916) 722-4995

SHEET 19

OF 102



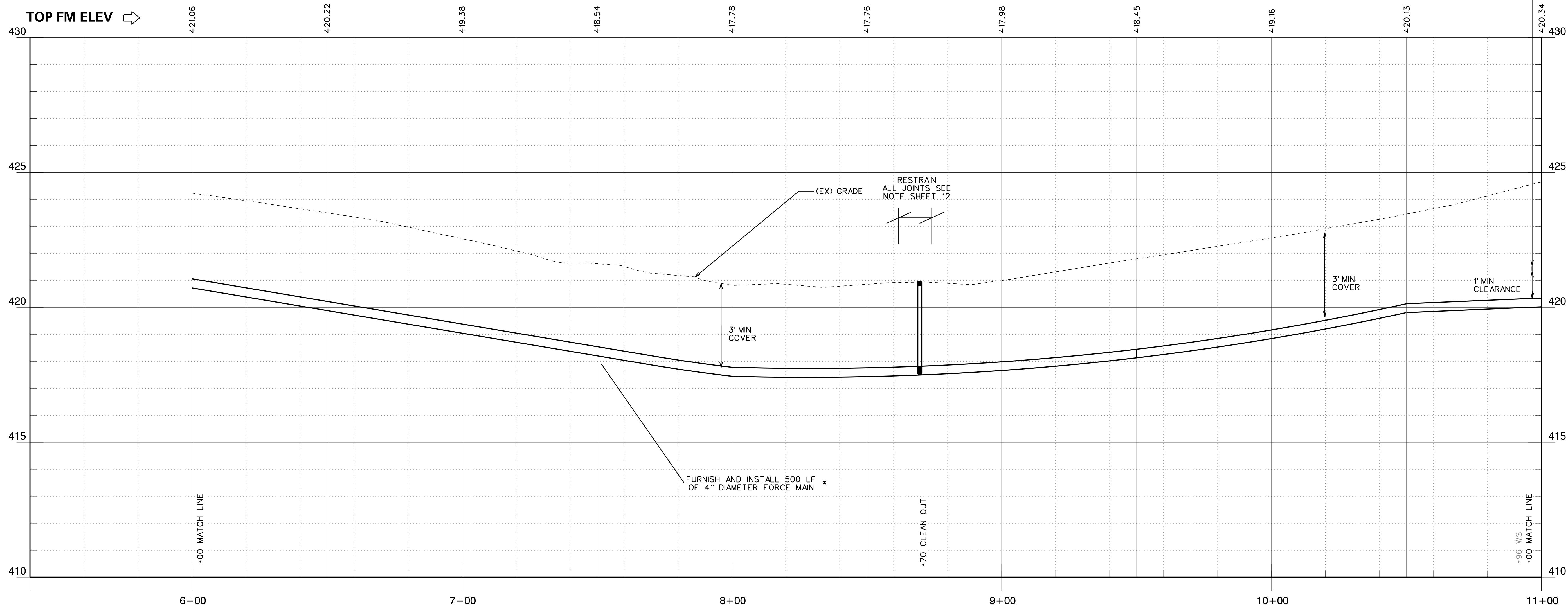
NOTES:

1. SEE SHEET 52, DETAIL 4, TRAFFIC CONTROL PLAN FOR WORK WITHIN COUNTY R/W
2. NO DISPOSAL OF TRENCH SPOILS PERMITTED WITHIN COUNTRY R/W
3. DISPOSAL HAUL ROUTE TO BE APPROVED BY CALAVERAS COUNTY

* CONTRACTOR MAY FURNISH:

-CLASS 350 DIP
 -PVC C900 PC 160
 -HDPE DR 13.5 (160 PSI)
 PIPE MATERIAL FOR THE 4" DIAMETER FORCE MAIN.
 FORCE MAIN PIPE MATERIAL SELECTED SHALL BE
 INSTALLED UNIFORMLY THROUGHOUT THE PROJECT.

CONTRACTOR TO POTHOLE AND VERIFY EXISTING WATER MAIN
DEPTH. FORCE MAIN ALIGNMENT TO BE ADJUSTED AS NECESSARY

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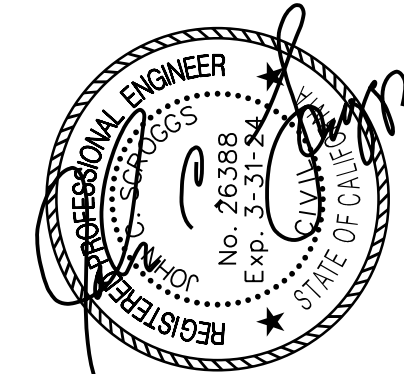
100% RELEASE

RELEASE 4

DATE: JULY 2023

SCALE:

JOB NO. 1337-01

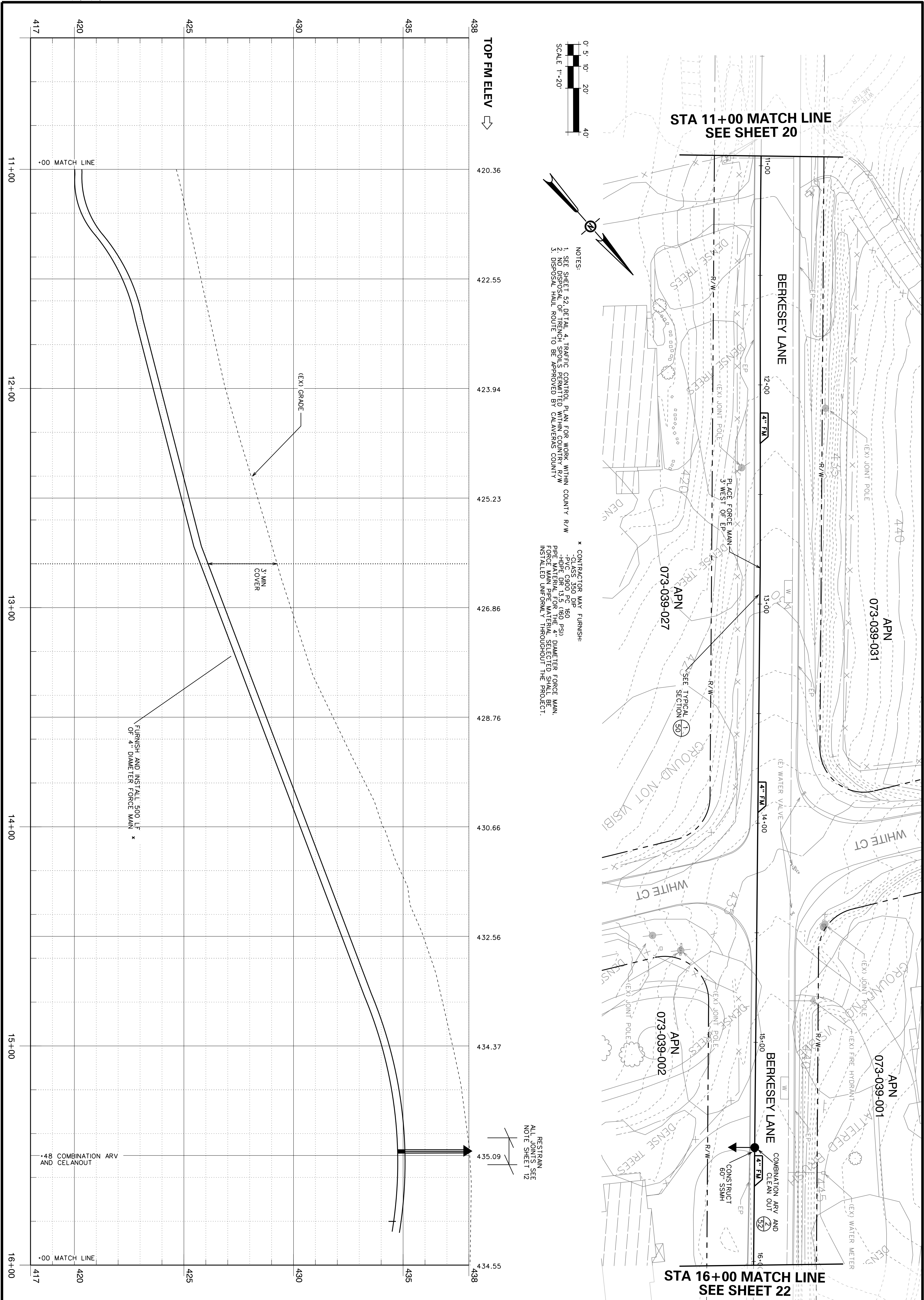


IMPROVEMENT PLANS FOR CONSTRUCTION OF
JENNYLIND ELEMENTARY SCHOOL
WASTEWATER TREATMENT PLANT UPGRADE PROJECT
CALAVERAS UNIFIED SCHOOL DISTRICT

**BERKESEY LANE
STA 6+00 TO STA 11+00**



FILE: S:\1337-01 Jenny Lind Elem School\Plans\20 FM PLAN 11.dgn
DATE: 8/28/2003
PEN TABLE: S:\1337-01 Jenny Lind Elem School\Plans\kasi.tbl
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[illegible]

100% RELEASE

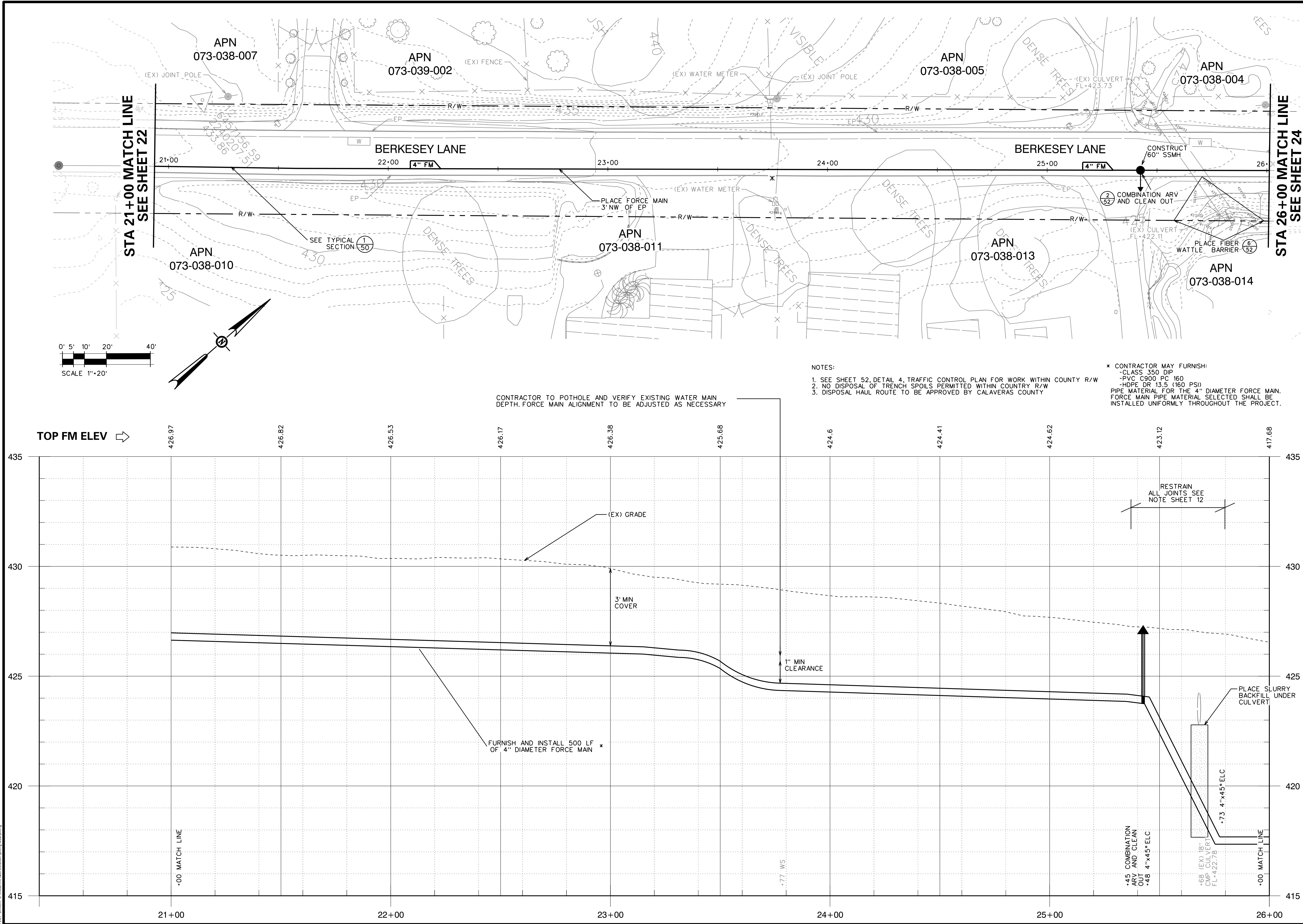
SCALE:	RELEASE 4
JOB NO. 1337-01	DATE: JULY 2023



IMPROVEMENT PLANS FOR CONSTRUCTION OF
JENNYLIND ELEMENTARY SCHOOL
WASTEWATERTREATMENT PLANT UPGRADE PROJECT
CALAVERAS UNIFIED SCHOOL DISTRICT
CALAVERAS COUNTY

**BERKESEY LANE
STA 11+00 TO STA 16+00**

FILE: S:\1337-00-Jenny Lind Elem. School\Plan\5.33 FM PLAN.dwg
DATE: 11/16/2017 10:11:00 AM
DRAWN BY: J. L. J. (JLJ)
CHECKED BY: J. L. J. (JLJ)
SCALE: 1"=20'



REVISIONS		DATE	BY
NO.	DESCRIPTION		

100% RELEASE

RELEASE 4
DATE: JULY 2023

SCALE:
JOB NO. 1337-01

REGISTERED PROFESSIONAL ENGINEER
J. L. J. (JLJ)
No. 26388
Exp. 3-31-24
STATE OF CALIFORNIA

IMPROVEMENT PLANS FOR CONSTRUCTION OF
**JENNY LIND ELEMENTARY SCHOOL
WASTEWATER TREATMENT PLANT UPGRADE PROJECT**
CALAVERAS UNIFIED SCHOOL DISTRICT
CALAVERAS COUNTY

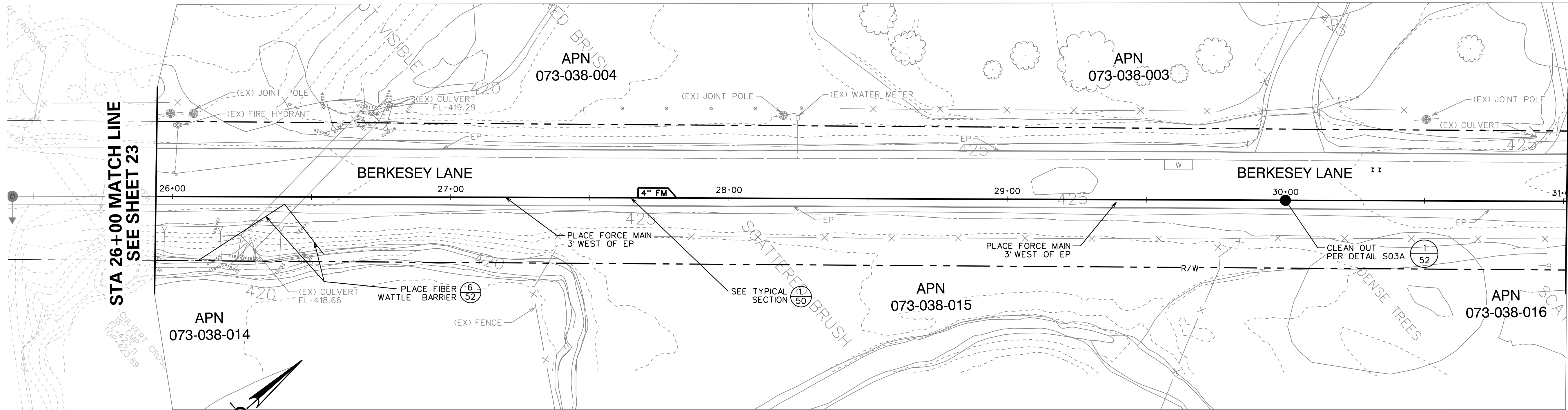
**BERKESEY LANE
STA 21+00 TO STA 26+00**

KASL
ENGINEERS
CIVIL - WATER RESOURCES - SURVEYING

7777 Greenback Lane
Suite 104
Citrus Heights, CA 95610
Tel: (916) 722-1800
Fax: (916) 722-4995

SHEET 23 OF 102

FILE: S:\1337-00\Jenny Lind Elem. School\Plan\5.14 - FM PLAN 18.dgn
DATE: 11/06/2013 10:12:20 AM
DRAWN BY: J. B. BROWN
CHECKED BY: J. B. BROWN
SCALE: 1"=20'



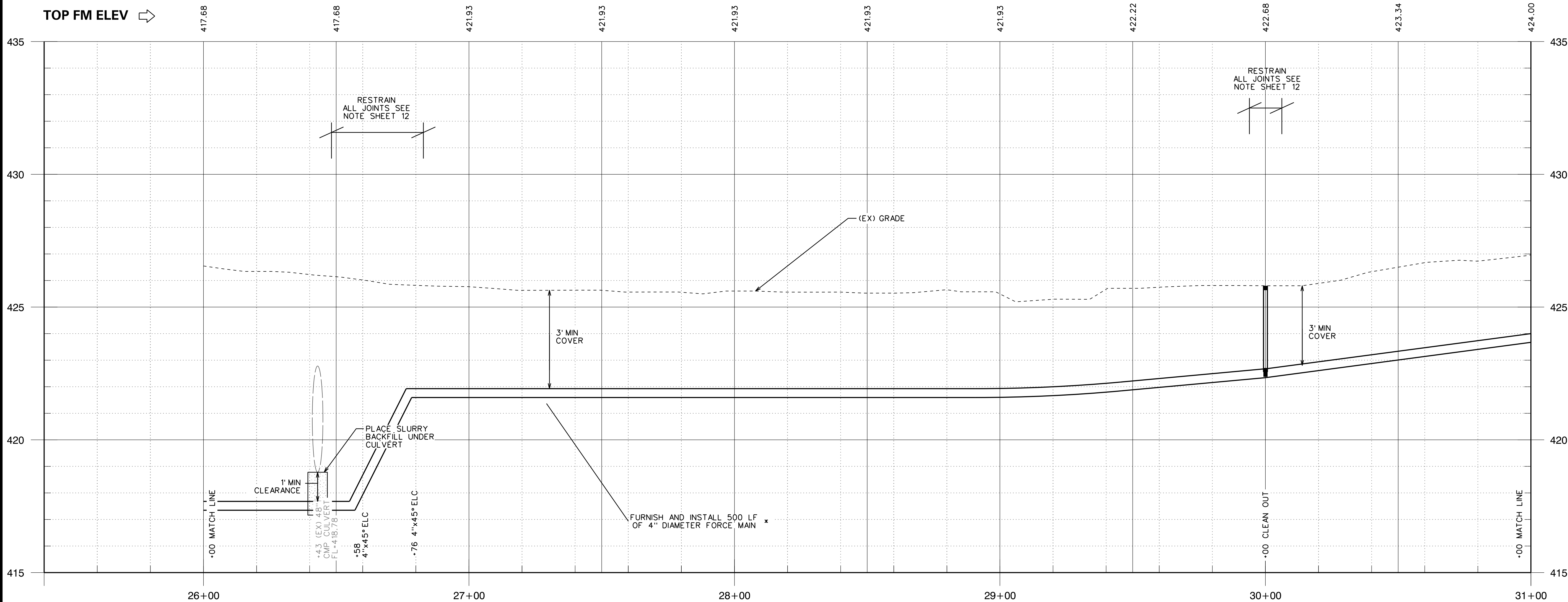
NOTES:

1. SEE SHEET 52, DETAIL 4, TRAFFIC CONTROL PLAN FOR WORK WITHIN COUNTY R/W
2. NO DISPOSAL OF TRENCH SPOILS PERMITTED WITHIN COUNTRY R/W
3. DISPOSAL HAUL ROUTE TO BE APPROVED BY CALAVERAS COUNTY

* CONTRACTOR MAY FURNISH:

- CLASS 350 DIP
 - PVC C900 PC 160
 - HDPE DR 13.5 (160 PSI)
- PIPE MATERIAL FOR THE 4" DIAMETER FORCE MAIN.
FORCE MAIN PIPE MATERIAL SELECTED SHALL BE
INSTALLED UNIFORMLY THROUGHOUT THE PROJECT.

TOP FM ELEV



REVISIONS		DATE		BY	
NO.	DESCRIPTION				

100% RELEASE	
SCALE:	RELEASE 4
JOB NO. 1337-01	DATE: JULY 2023

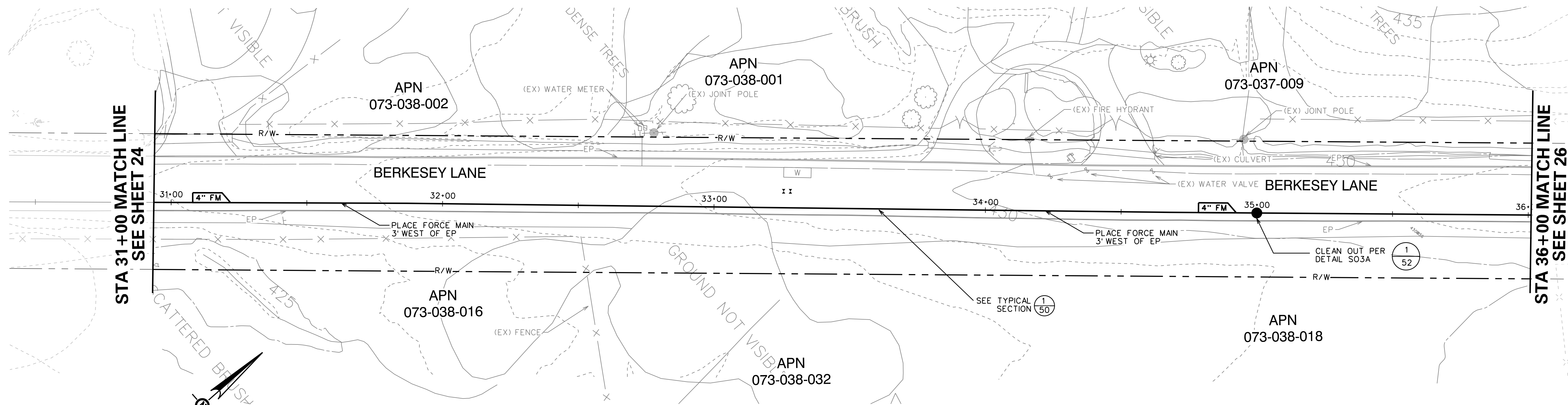
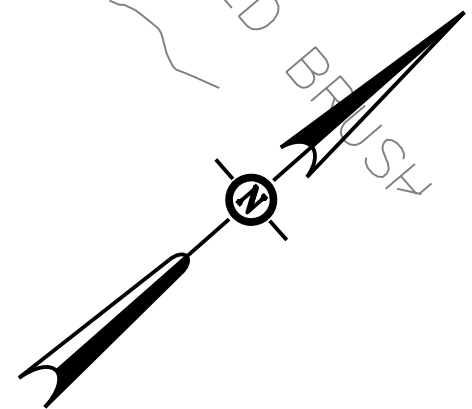
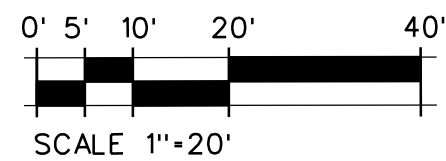
REGISTERED PROFESSIONAL ENGINEER
J. B. BROWN
No. 26388
Exp. 3-31-24
STATE OF CALIFORNIA

IMPROVEMENT PLANS FOR CONSTRUCTION OF JENNY LIND ELEMENTARY SCHOOL WASTEWATER TREATMENT PLANT UPGRADE PROJECT CALAVERAS UNIFIED SCHOOL DISTRICT CALAVERAS COUNTY	
BERKESEY LANE STA 26+00 TO STA 31+00	

KASL ENGINEERS CIVIL - WATER RESOURCES - SURVEYING	7777 Greenback Lane Suite 104 Citrus Heights, CA 95610 Tel: (916) 722-1800 Fax: (916) 722-4595
---	--

SHEET 24 OF 102

FILE: S:\1337-00 Jenny Lind Elem. School Plant\1337 FM PLAN 18.dgn
DATE: 11/26/2019 10:12:20 AM
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CHECKED BY: J. B. BROWN
SCALE: 1"=20'

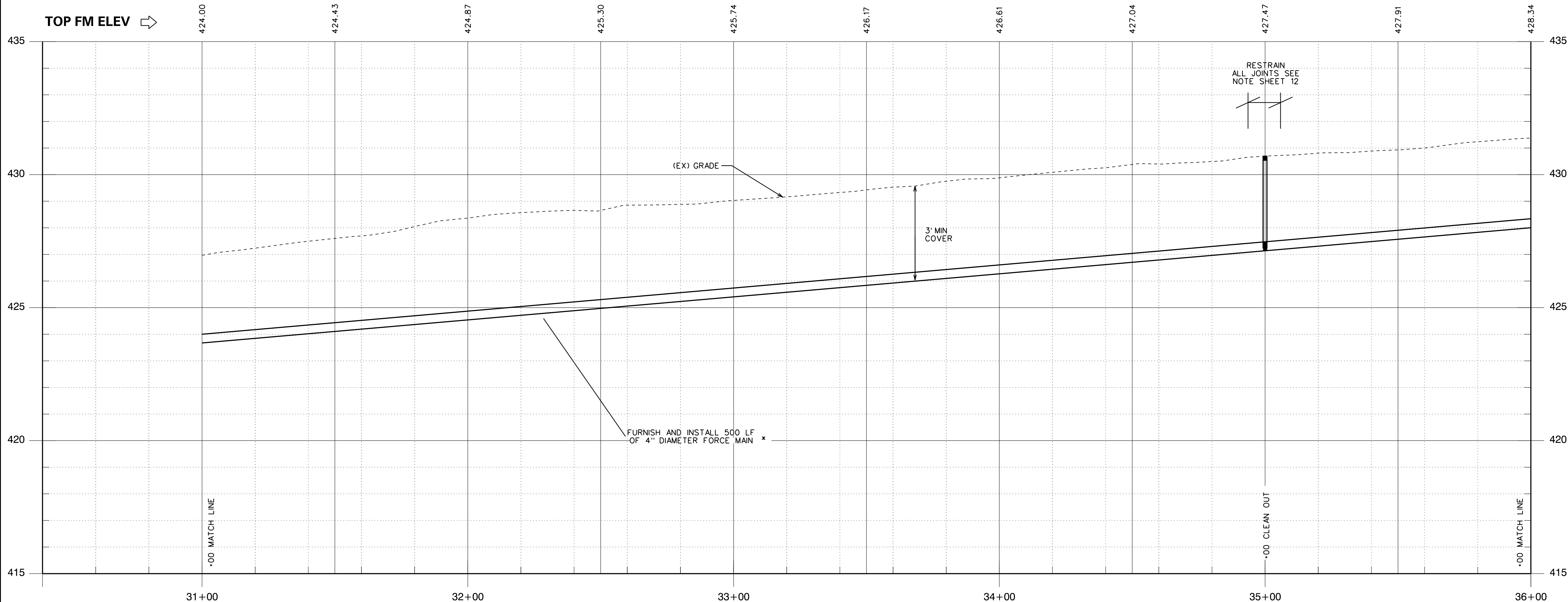


NOTES:

1. SEE SHEET 52, DETAIL 4, TRAFFIC CONTROL PLAN FOR WORK WITHIN COUNTY R/W
2. NO DISPOSAL OF TRENCH SPOILS PERMITTED WITHIN COUNTRY R/W
3. DISPOSAL HAUL ROUTE TO BE APPROVED BY CALAVERAS COUNTY

* CONTRACTOR MAY FURNISH:
-CLASS 350 DIP
-PVC C900 PC 160
-HDPE DR 13.5 (160 PSI)
PIPE MATERIAL FOR THE 4" DIAMETER FORCE MAIN.
FORCE MAIN PIPE MATERIAL SELECTED SHALL BE
INSTALLED UNIFORMLY THROUGHOUT THE PROJECT.

TOP FM ELEV ➡



REVISIONS		DATE		BY	
NO.	DESCRIPTION				

100% RELEASE

RELEASE 4

DATE: JULY 2023

SCALE: 1"=20'

JOB NO. 1337-01

REGISTERED PROFESSIONAL ENGINEER
JENNIFER B. BROWN
No. 26388
Exp. 3-31-24
STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER
JENNIFER B. BROWN
No. 26388
Exp. 3-31-24
STATE OF CALIFORNIA

IMPROVEMENT PLANS FOR CONSTRUCTION OF
JENNY LIND ELEMENTARY SCHOOL
WASTEWATER TREATMENT PLANT UPGRADE PROJECT
CALAVERAS UNIFIED SCHOOL DISTRICT
CALAVERAS COUNTY

BERKESEY LANE
STA 31+00 TO STA 36+00

CONSULTING

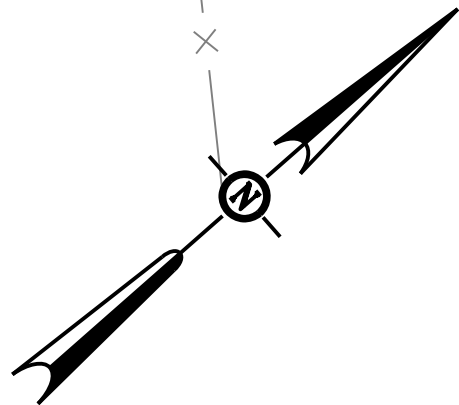
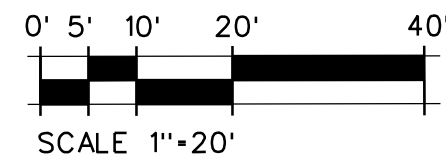
KASL

ENGINEERS

7777 Greenback Lane
Suite 104
Citrus Heights, CA 95610
Tel: (916) 722-1800
Fax: (916) 722-4595
CIVIL - WATER RESOURCES - SURVEYING

SHEET 25 OF 102

FILE: S:\1337-00\Jenny Lind Elem. School\Plan's\6 FM PLAN TO APP.
DATE: 06/29/2017 09:47:00 AM
BY: J. B. B. (J. B. B.)
C:\Users\jbb\Documents\1337-00\Jenny Lind Elem. School\Plan's\6 FM PLAN TO APP.



STA 36+00 MATCH LINE
SEE SHEET 25

APN
073-037-009

BERKESEY LANE

APN
073-038-019

SCATTERED BRUSH

4" FM

SEE TYPICAL
SECTION (1)
(50)

APN
073-037-010

APN
073-037-008

CLEAN OUT PER
DETAIL S03A

BERKESEY LANE

APN
073-037-007

STA 41+00 MATCH LINE
SEE SHEET 27

APN
073-037-011

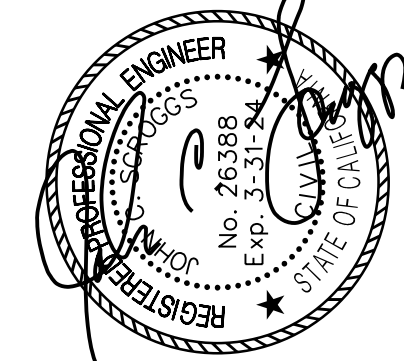
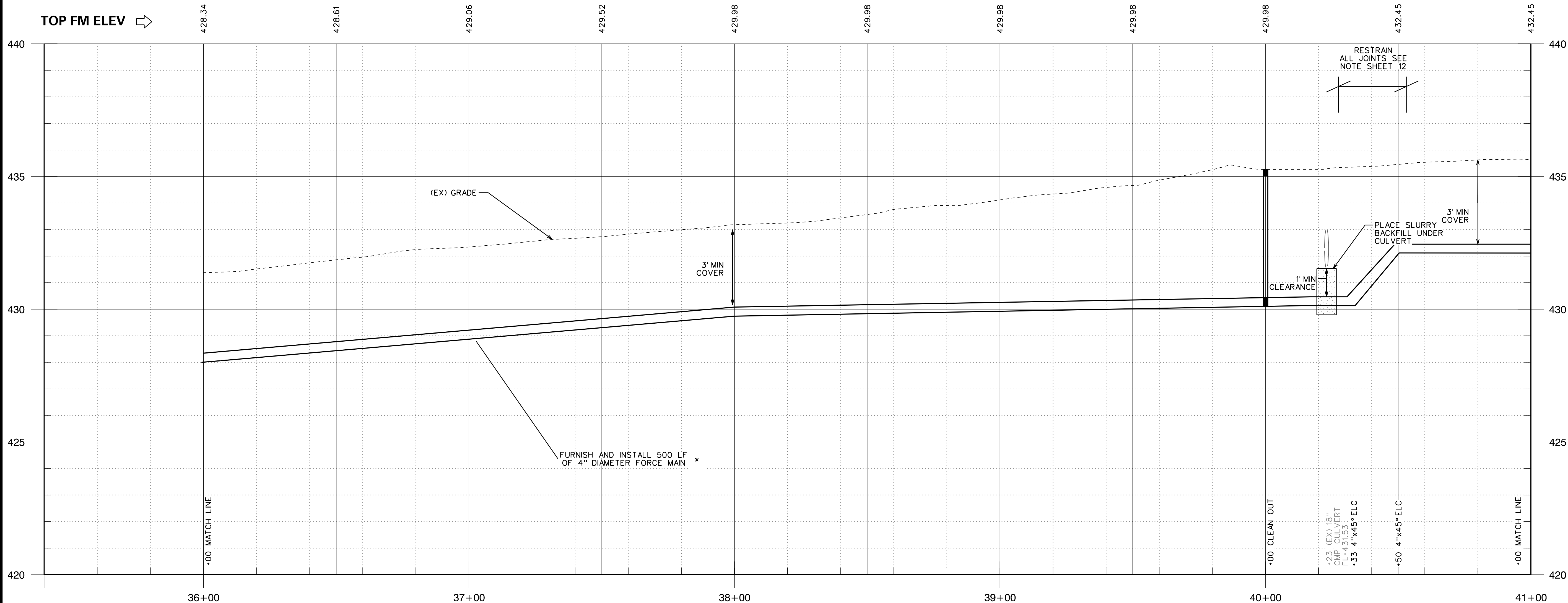
NOTES:

1. SEE SHEET 52, DETAIL 4, TRAFFIC CONTROL PLAN FOR WORK WITHIN COUNTY R/W
2. NO DISPOSAL OF TRENCH SPOILS PERMITTED WITHIN COUNTRY R/W
3. DISPOSAL HAUL ROUTE TO BE APPROVED BY CALAVERAS COUNTY

* CONTRACTOR MAY FURNISH:

- CLASS 350 DIP
 - PVC C900 PC 160
 - HDPE DR 13.5 (160 PSI)
- PIPE MATERIAL FOR THE 4" DIAMETER FORCE MAIN.
FORCE MAIN PIPE MATERIAL SELECTED SHALL BE
INSTALLED UNIFORMLY THROUGHOUT THE PROJECT.

TOP FM ELEV



IMPROVEMENT PLANS FOR CONSTRUCTION OF
JENNY LIND ELEMENTARY SCHOOL
WASTEWATER TREATMENT PLANT UPGRADE PROJECT
CALAVERAS UNIFIED SCHOOL DISTRICT
CALAVERAS COUNTY

CONSULTING
KASL
ENGINEERS
7777 Greenback Lane
Suite 104
Citrus Heights, CA 95610
Tel. (916) 722-1800
Fax (916) 722-4995
CIVIL - WATER RESOURCES - SURVEYING

SHEET 26 OF 102

100% RELEASE

RELEASE 4
DATE: JULY 2023
SCALE:
JOB NO. 1337-01

REVISIONS

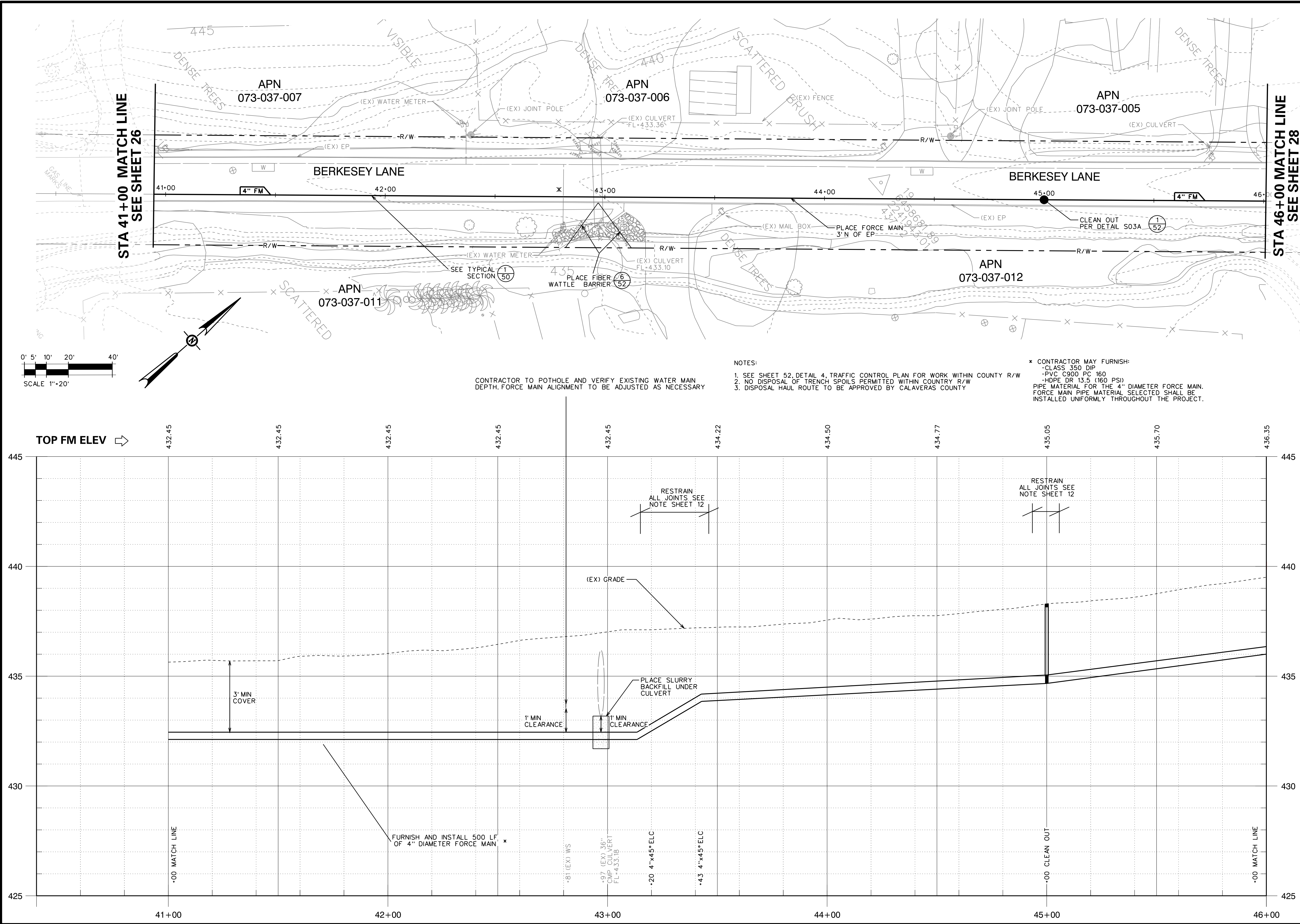
DESCRIPTION

NO.

DATE

BY

FILE: S:\1337-00\Jenny Lind Elem. School\Plan\27 FM PLAN.dwg
DATE: 10/26/2010 10:12:20 AM
DRAWN BY: J. B. BROWN
CHECKED BY: J. B. BROWN
SCALE: 1"=20'



REVISIONS		DATE		BY	
NO.	DESCRIPTION				

100% RELEASE

SCALE: 1"=20'

JOB NO. 1337-01

DATE: JULY 2023

REGISTERED PROFESSIONAL ENGINEER
J. B. BROWN
No. 26388
Exp. 3-31-14
STATE OF CALIFORNIA

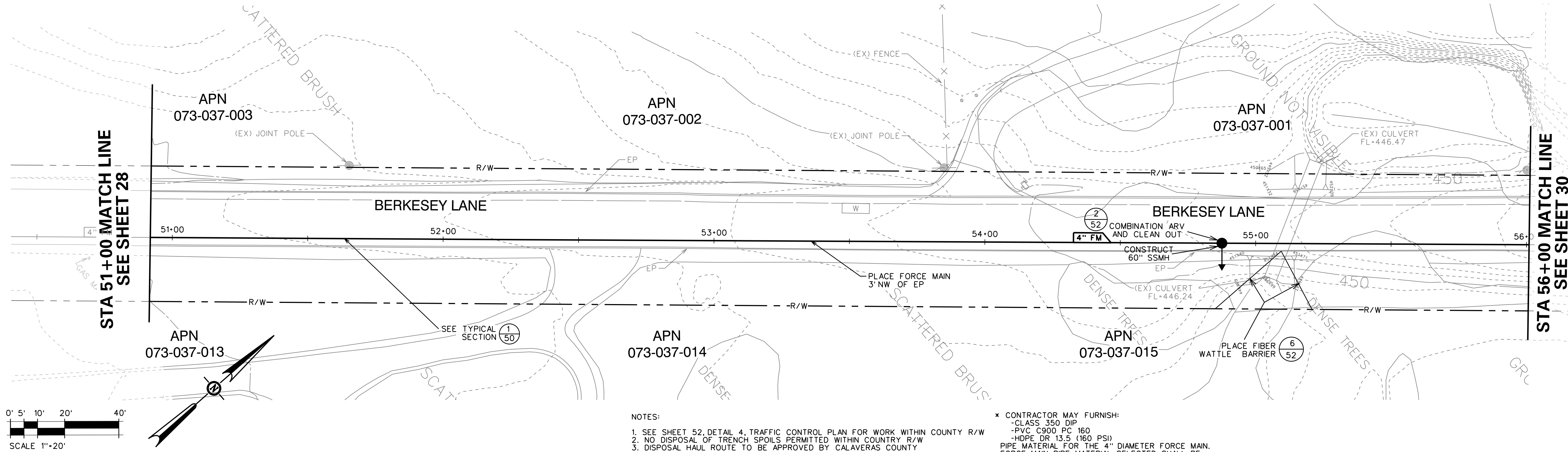
IMPROVEMENT PLANS FOR CONSTRUCTION OF
JENNY LIND ELEMENTARY SCHOOL
WASTEWATER TREATMENT PLANT UPGRADE PROJECT
CALAVERAS UNIFIED SCHOOL DISTRICT
CALAVERAS COUNTY

KASL
ENGINEERS
7777 Greenback Lane
Suite 104
Citrus Heights, CA 95610
Tel: (916) 722-1800
Fax: (916) 722-4595
CIVIL - WATER RESOURCES - SURVEYING

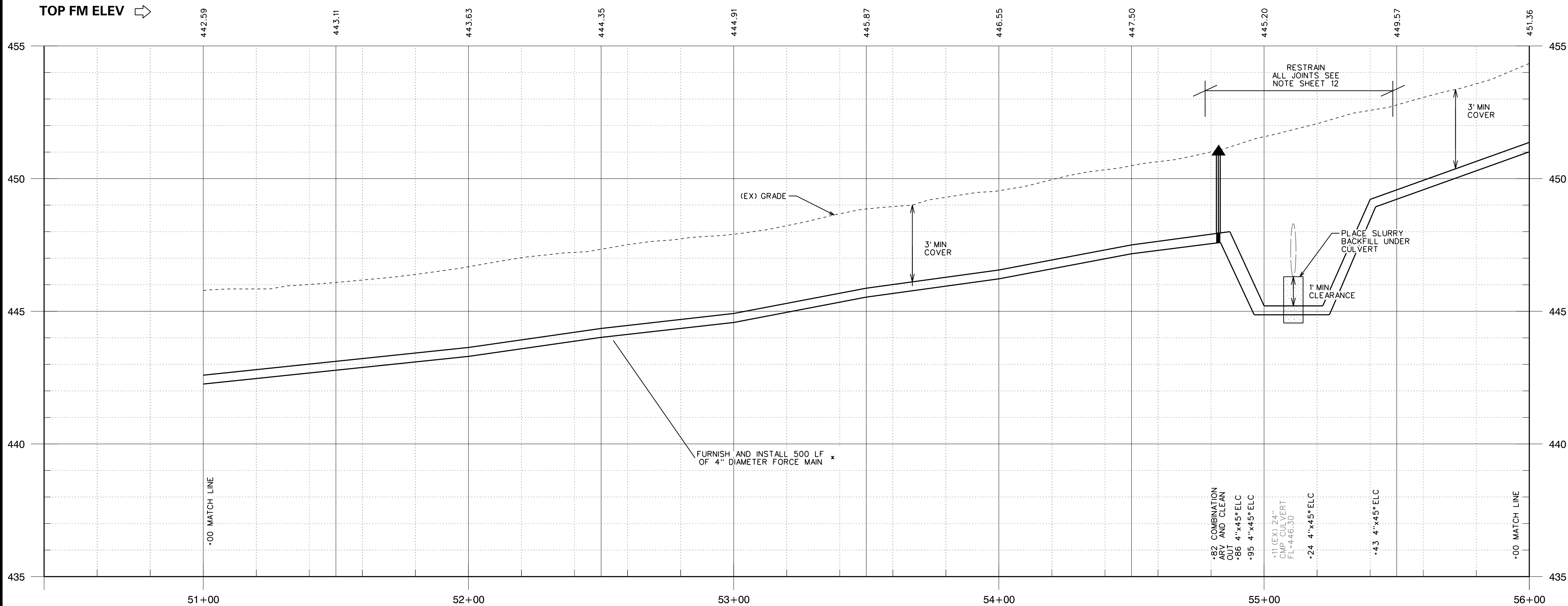
BERKESEY LANE
STA 41+00 TO STA 46+00

SHEET 27 OF 102

FILE: S:\1337-00\Jenny Lind Elem. School\Plan\529 FM PLAN 20.dwg
DATE: 10/26/2011 10:11:21 AM
BY: J. B. BROWN
CUT: 1/24/2012 10:11:21 AM



TOP FM ELEV



REVISIONS		DATE		BY	
NO.	DESCRIPTION				

100% RELEASE

RELEASE 4

DATE: JULY 2023

SCALE:

JOB NO. 1337-01

PROFESSIONAL ENGINEER

JOHN J. BROWN

No. 26388

Exp. 3-31-24

DATE OF CALCULATION

IMPROVEMENT PLANS FOR CONSTRUCTION OF

JENNY LIND ELEMENTARY SCHOOL

WASTEWATER TREATMENT PLANT UPGRADE PROJECT

CALAVERAS UNIFIED SCHOOL DISTRICT

CALAVERAS COUNTY

CONSULTING

KASL

ENGINEERS

7777 Greenback Lane

Suite 104

Citrus Heights, CA 95610

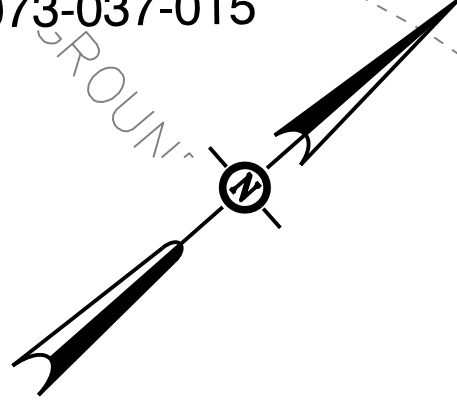
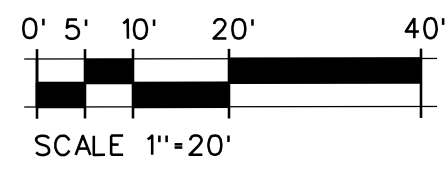
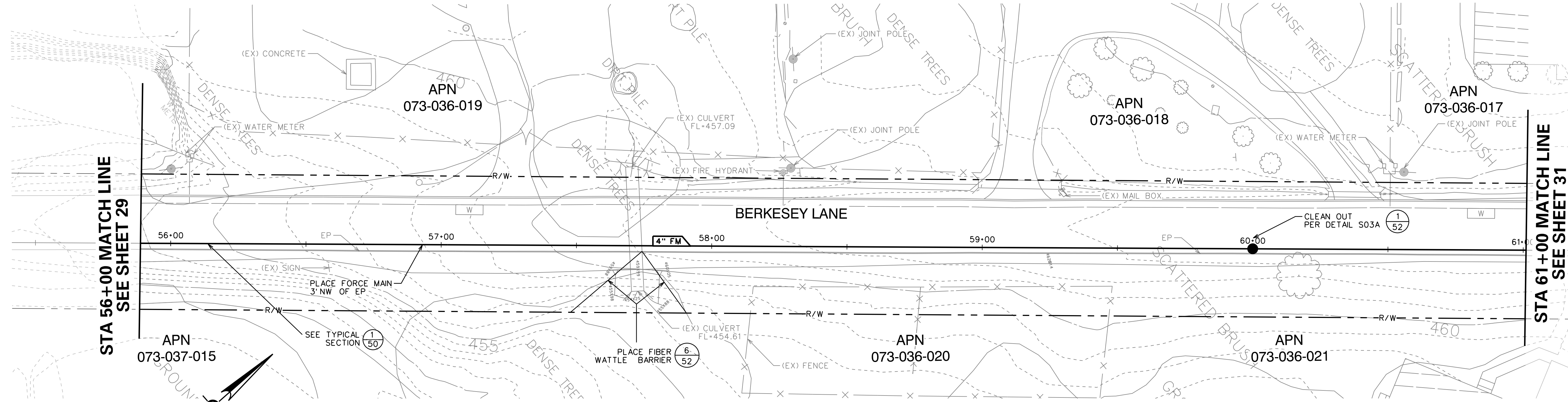
Tel: (916) 722-1800

Fax: (916) 722-4995

CIVIL - WATER RESOURCES - SURVEYING

SHEET 29 OF 102

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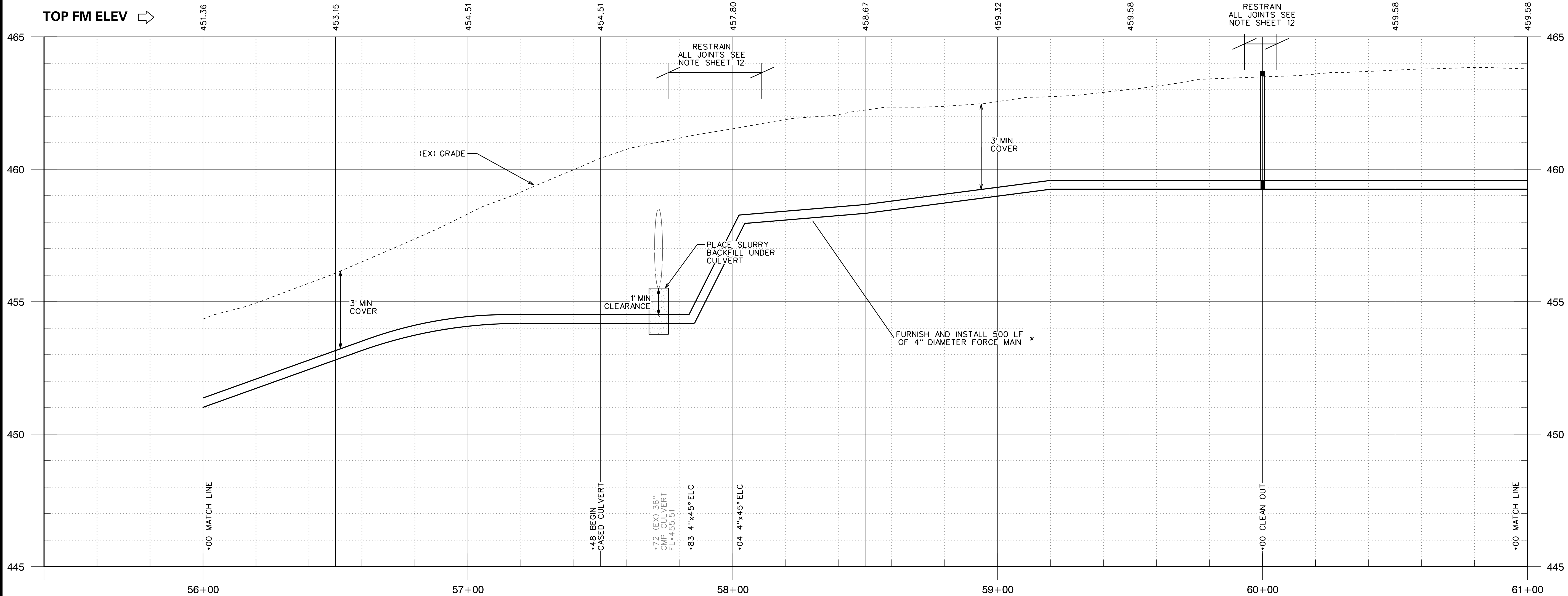
NOTES:

1. SEE SHEET 52, DETAIL 4, TRAFFIC CONTROL PLAN FOR WORK WITHIN COUNTY R/W
2. NO DISPOSAL OF TRENCH SPOILS PERMITTED WITHIN COUNTRY R/W
3. DISPOSAL HAUL ROUTE TO BE APPROVED BY CALAVERAS COUNTY

* CONTRACTOR MAY FURNISH:

- CLASS 350 DIP
 - PVC C900 PC 160
 - HDPE DR 13.5 (160 PSI)
- PIPE MATERIAL FOR THE 4" DIAMETER FORCE MAIN.
FORCE MAIN PIPE MATERIAL SELECTED SHALL BE
INSTALLED UNIFORMLY THROUGHOUT THE PROJECT.

TOP FM ELEV →



REVISIONS		DATE		BY	
NO.	DESCRIPTION				

100% RELEASE

RELEASE 4

DATE: JULY 2023

SCALE:

JOB NO. 1337-01

REGISTERED PROFESSIONAL ENGINEER
JENNIFER L. DUNN
No. 26388
Exp. 3-31-24
DATE OF CALCULATION: 06/29/2017

IMPROVEMENT PLANS FOR CONSTRUCTION OF
JENNY LIND ELEMENTARY SCHOOL
WASTEWATER TREATMENT PLANT UPGRADE PROJECT
CALAVERAS UNIFIED SCHOOL DISTRICT
CALAVERAS COUNTY

BERKESEY LANE
STA 56+00 TO STA 61+00

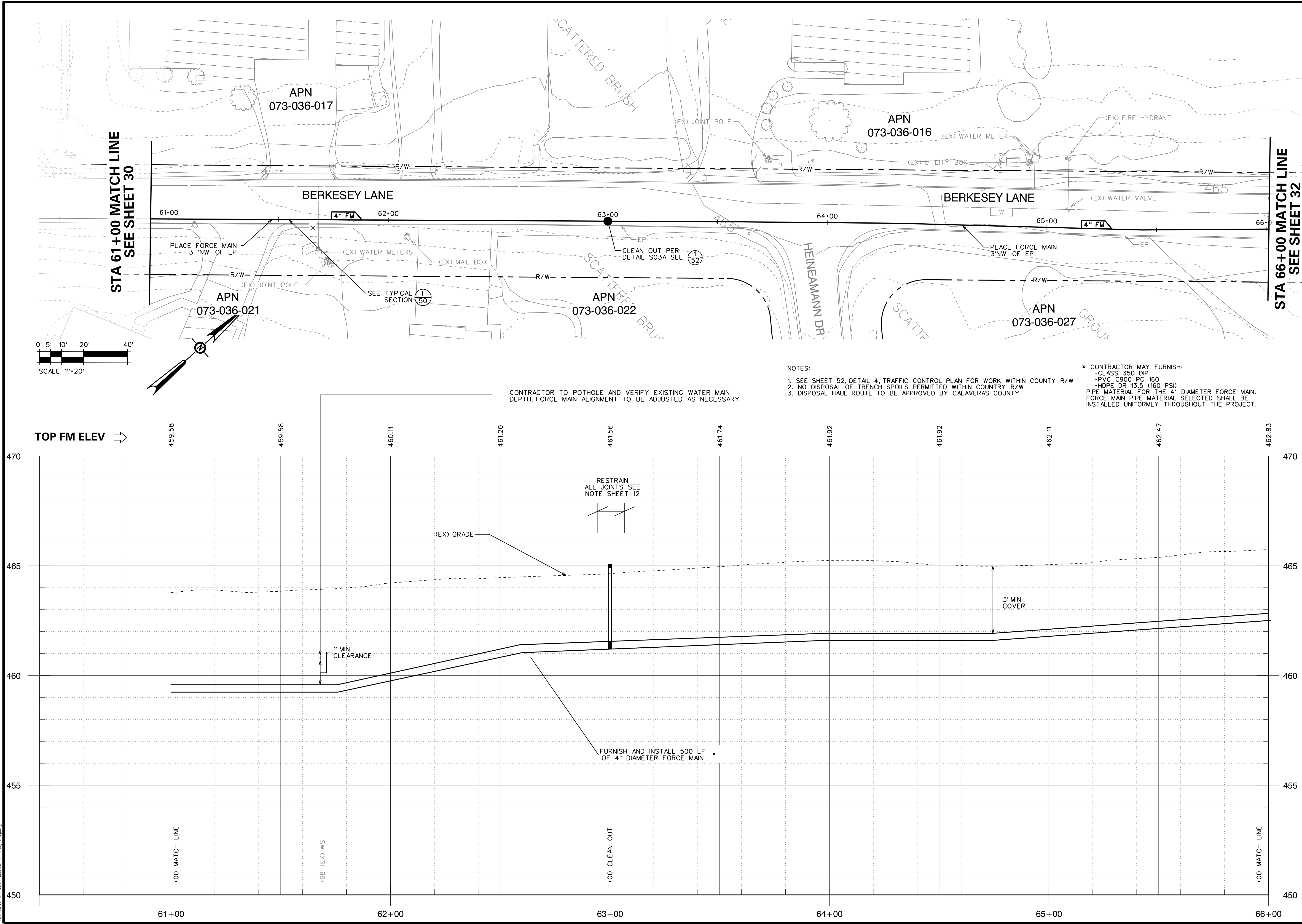
CONSULTING
KASL
ENGINEERS
CIVIL - WATER RESOURCES - SURVEYING

7777 Greenback Lane
Suite 104
Citrus Heights, CA 95610
Tel: (916) 722-1800
Fax: (916) 722-4995

SHEET 30

OF 102

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NOTES:

1. SEE SHEET 52, DETAIL 4, TRAFFIC CONTROL PLAN FOR WORK WITHIN COUNTY R/W
2. NO DISPOSAL OF TRENCH SPOILS PERMITTED WITHIN COUNTRY R/W
3. DISPOSAL HAUL ROUTE TO BE APPROVED BY CALAVERAS COUNTY

* CONTRACTOR MAY FURNISH:

- CLASS 350 DIP
- PVC C900 PC 160
- HDPE DR 13.5 (160 PSI)
- PIPE MATERIAL FOR THE 4" DIAMETER FORCE MAIN.
- FORCE MAIN PIPE MATERIAL SELECTED SHALL BE
- INSTALLED UNIFORMLY THROUGHOUT THE PROJECT.

REVISIONS		DATE		BY	
NO.	DESCRIPTION				

100% RELEASE

RELEASE 4

DATE: JULY 2023

SCALE:

JOB NO. 1337-01

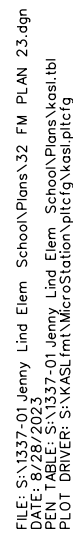
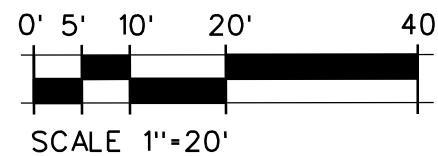
IMPROVEMENT PLANS FOR CONSTRUCTION OF
JENNY LIND ELEMENTARY SCHOOL
WASTEWATER TREATMENT PLANT UPGRADE PROJECT
CALAVERAS UNIFIED SCHOOL DISTRICT
CALAVERAS COUNTY

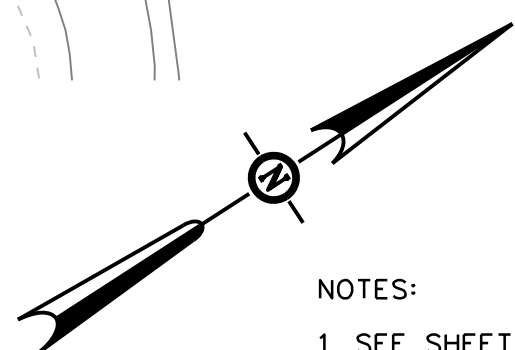
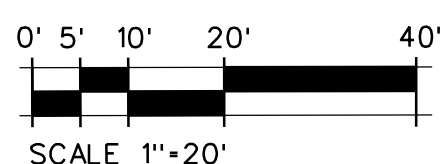
BERKESEY LANE
STA 61+00 TO STA 66+00

CONSULTING
KASL
ENGINEERS

7777 Greenback Lane
Suite 104
Citrus Heights, CA 95610
Tel: (916) 722-1800
Fax: (916) 722-4595
CIVIL - WATER RESOURCES - SURVEYING

SHEET 31 OF 102





NOTES:

1. SEE SHEET 52, DETAIL 4, TRAFFIC CONTROL PLAN FOR WORK WITHIN COUNTY R/W
2. NO DISPOSAL OF TRENCH SPOILS PERMITTED WITHIN COUNTRY R/W
3. DISPOSAL HAUL ROUTE TO BE APPROVED BY CALAVERAS COUNTY

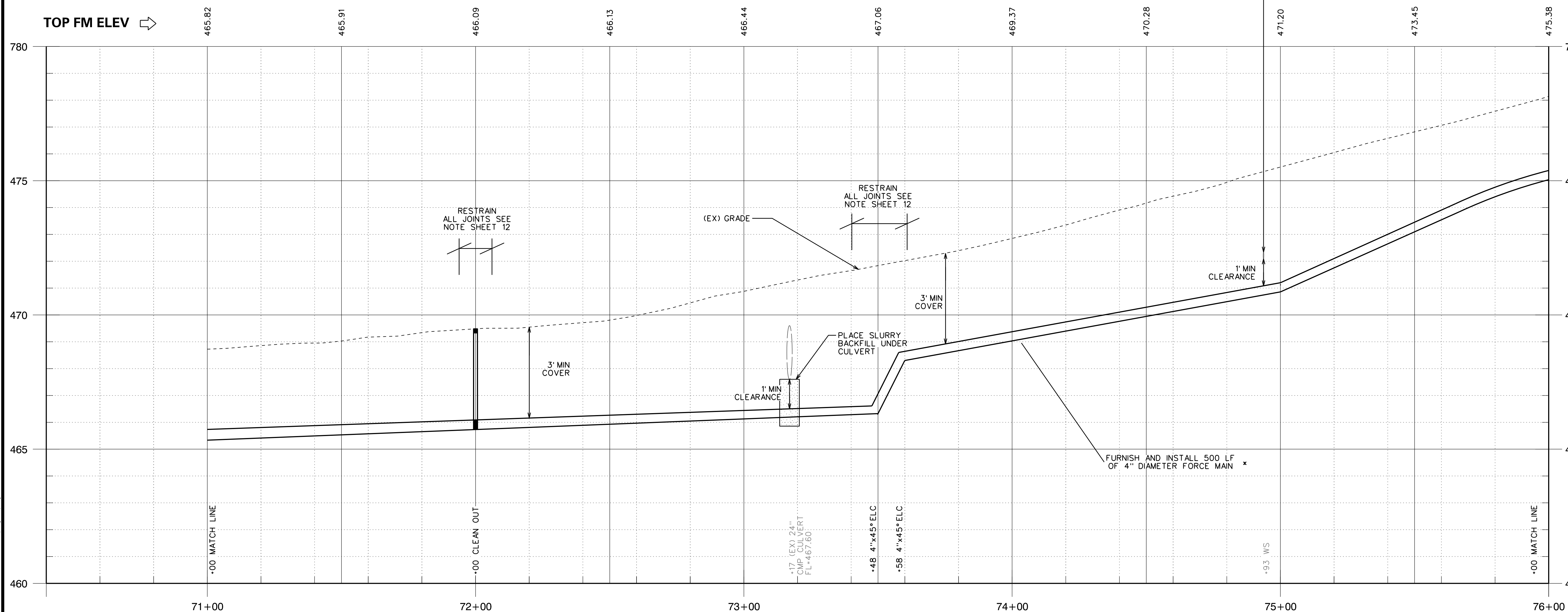
* CONTRACTOR MAY FURNISH:

- CLASS 350 DIP
-PVC C900 PC 160
-HDPE DR 13.5 (160 PSI)
PIPE MATERIAL FOR THE 4" DIAMETER FORCE MAIN
FORCE MAIN PIPE MATERIAL SELECTED SHALL BE
INSTALLED UNIFORMLY THROUGHOUT THE PROJECT

CONTRACTOR TO POTHOLE AND VERIFY EXISTING WATER MAIN
DEPTH, FORCE MAIN ALIGNMENT TO BE ADJUSTED AS NECESSARY

CURVED PIPE RADIUS

STA 70+88 TO STA 71+07
4" FM RADIUS: 200.00'

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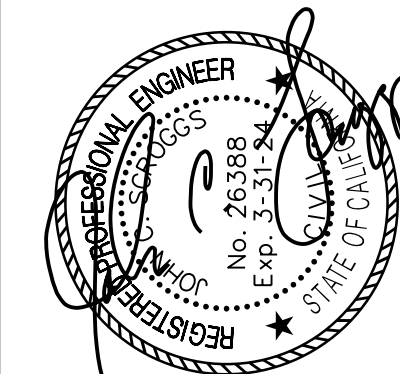
100% RELEASE

RELEASE 4

DATE: JULY 2023

SCALE:

JOB NO. 1337-01



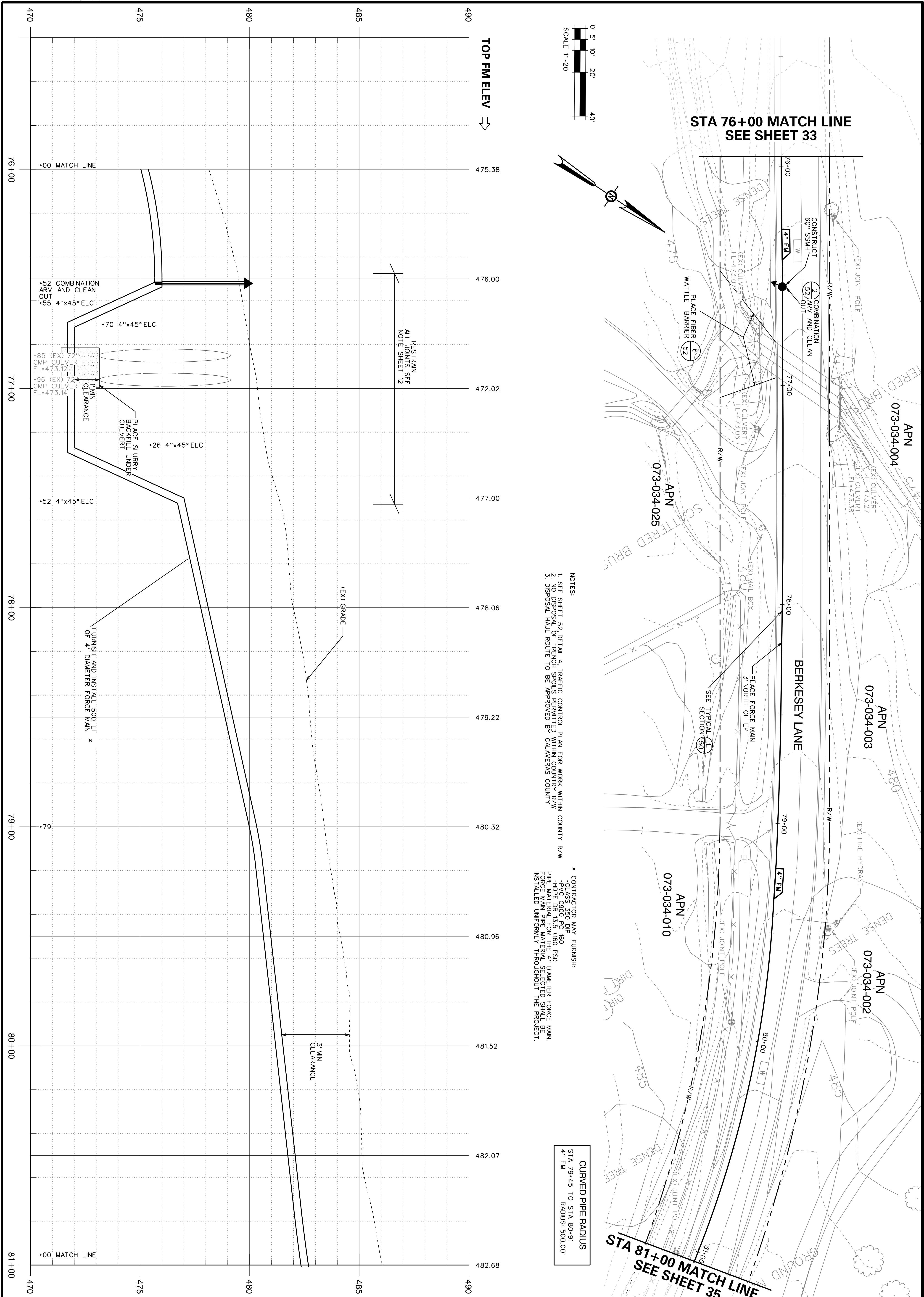
IMPROVEMENT PLANS FOR CONSTRUCTION OF
JENNYLIND ELEMENTARY SCHOOL
WASTEWATER TREATMENT PLANT UPGRADE PROJECT
CALAVERAS UNIFIED SCHOOL DISTRICT

BERKESEY LANE
STA 71+00 TO STA 76+00



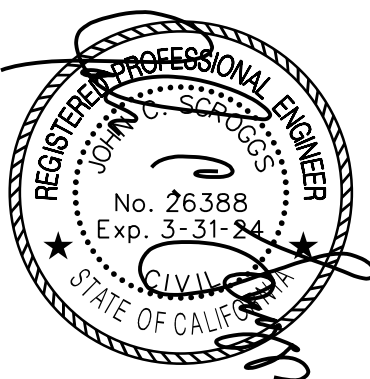
7777 Greenback Lane
Suite 104
Citrus Heights, CA 95616
Tel. (916) 722-1800
Fax (916) 722-4595

SHEET 33 OF 102

[illegible]

100% RELEASE

SCALE:	RELEASE 4
JOB NO. 1337-01	DATE: JULY 2023



IMPROVEMENT PLANS FOR CONSTRUCTION OF
JENNYLIND ELEMENTARY SCHOOL
WASTEWATERTREATMENT PLANT UPGRADE PROJECT
CALAVERAS UNIFIED SCHOOL DISTRICT
 CALAVERAS COUNTY

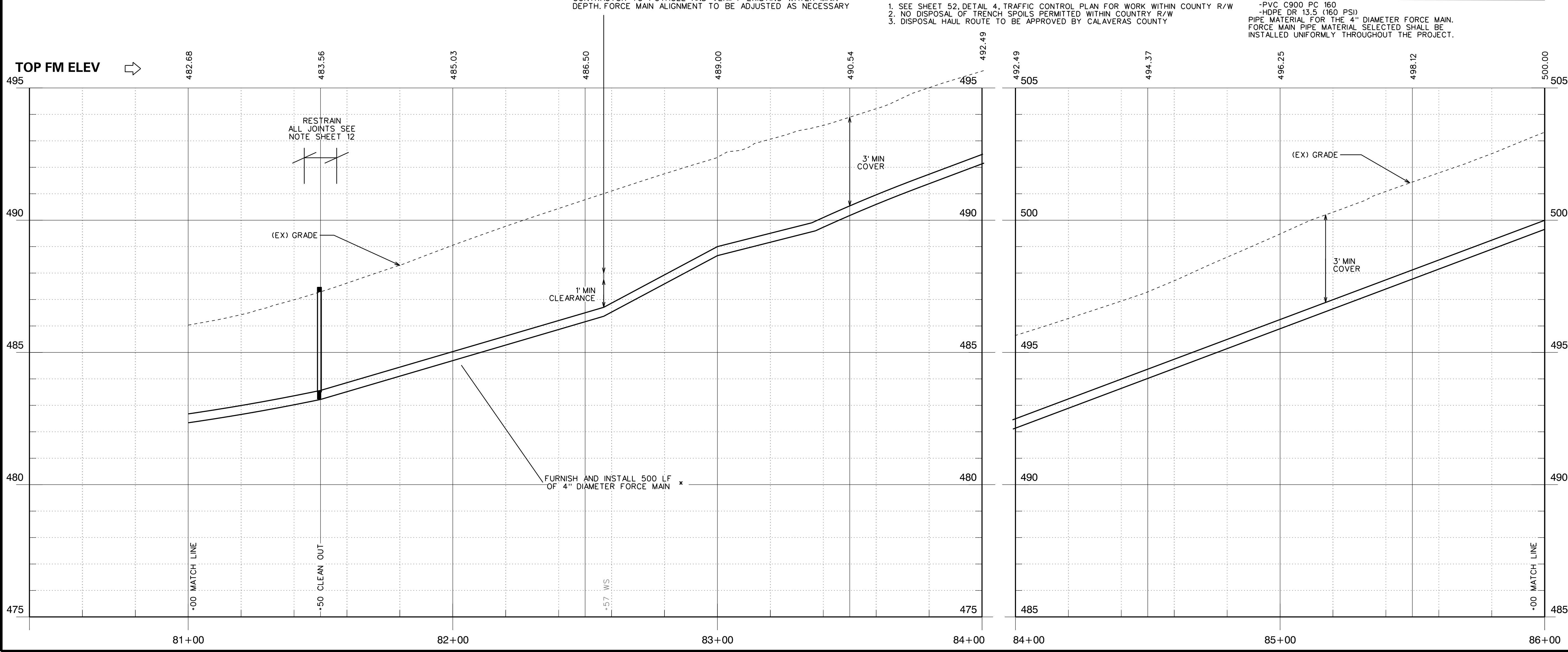
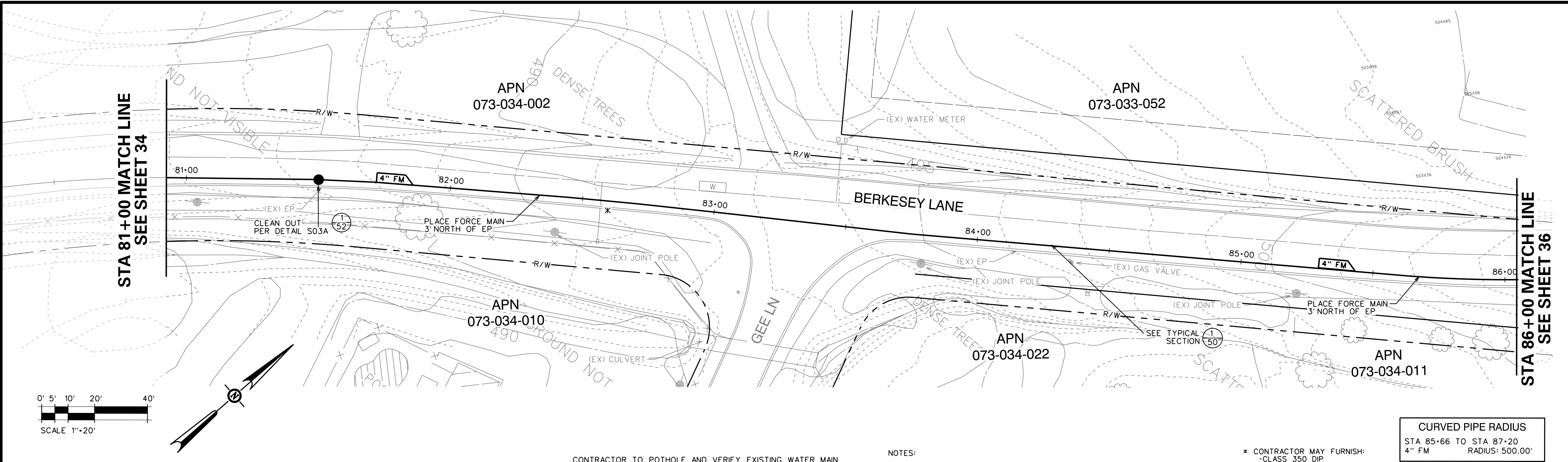
**BERKESEY LANE
STA 76+00 TO STA 81+00**

CONSULTING
KASL
ENGINEERS

7777 Greenback Lane
Suite 104
Citrus Heights, CA 95610
Tel. (916) 722-1800
Fax (916) 722-6565

CIVIL - WATER RESOURCES - SURVEYING

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REVISIONS		DATE		BY	
NO.	DESCRIPTION				

100% RELEASE

RELEASE 4
DATE: JULY 2023

SCALE: 1"=20'

JOB NO. 1337-01

REGISTERED PROFESSIONAL ENGINEER

JOHN A. GOS

No. 26388

Exp. 3-31-24

STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER

JOHN A. GOS

No. 26388

Exp. 3-31-24

STATE OF CALIFORNIA

IMPROVEMENT PLANS FOR CONSTRUCTION OF

JENNY LIND ELEMENTARY SCHOOL

WASTEWATER TREATMENT PLANT UPGRADE PROJECT

CALAVERAS UNIFIED SCHOOL DISTRICT

CALAVERAS COUNTY

KASL

ENGINEERS

CIVIL - WATER RESOURCES - SURVEYING

7777 Greenback Lane

Suite 104

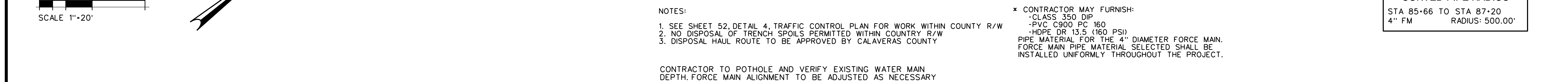
Citrus Heights, CA 95610

Tel: (916) 722-1800

Fax: (916) 722-4995

SHEET 35

OF 102



CONSULTING

KASL

ENGINEERS

CIVIL - WATER RESOURCES - SURVEYING

7777 Greenback Lane
Suite 104
Citrus Heights, CA 95610
Tel. (916) 722-1800
Fax (916) 722-4595

IMPROVEMENT PLANS FOR CONSTRUCTION OF
JENNYLIND ELEMENTARY SCHOOL
WASTEWATERTREATMENT PLANT UPGRADE PROJECT
CALAVERAS UNIFIED SCHOOL DISTRICT
CALAVERAS COUNTY

BERKESEY LANE

STA 86+00 TO STA 91+00



SCALE:

JOB NO. 1337-01

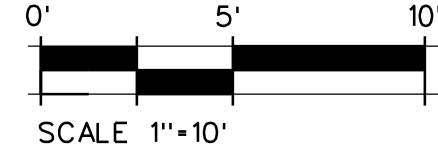
RELEASE 4

DATE: JULY 2023

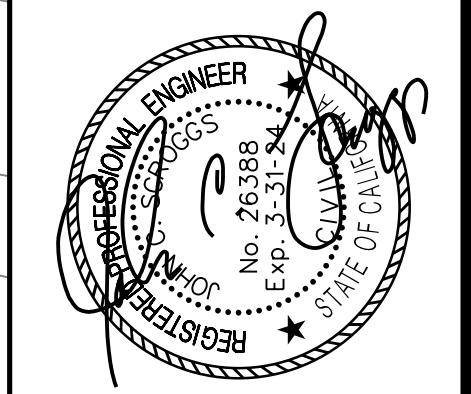
100% RELEASE

REVISIONS		DATE	BY
NO.	DESCRIPTION		

SHEET 36 OF 102

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100% RELEASE	SCALE:	RELEASE 4
	JOB NO. 1337-01	DATE: JULY 2023



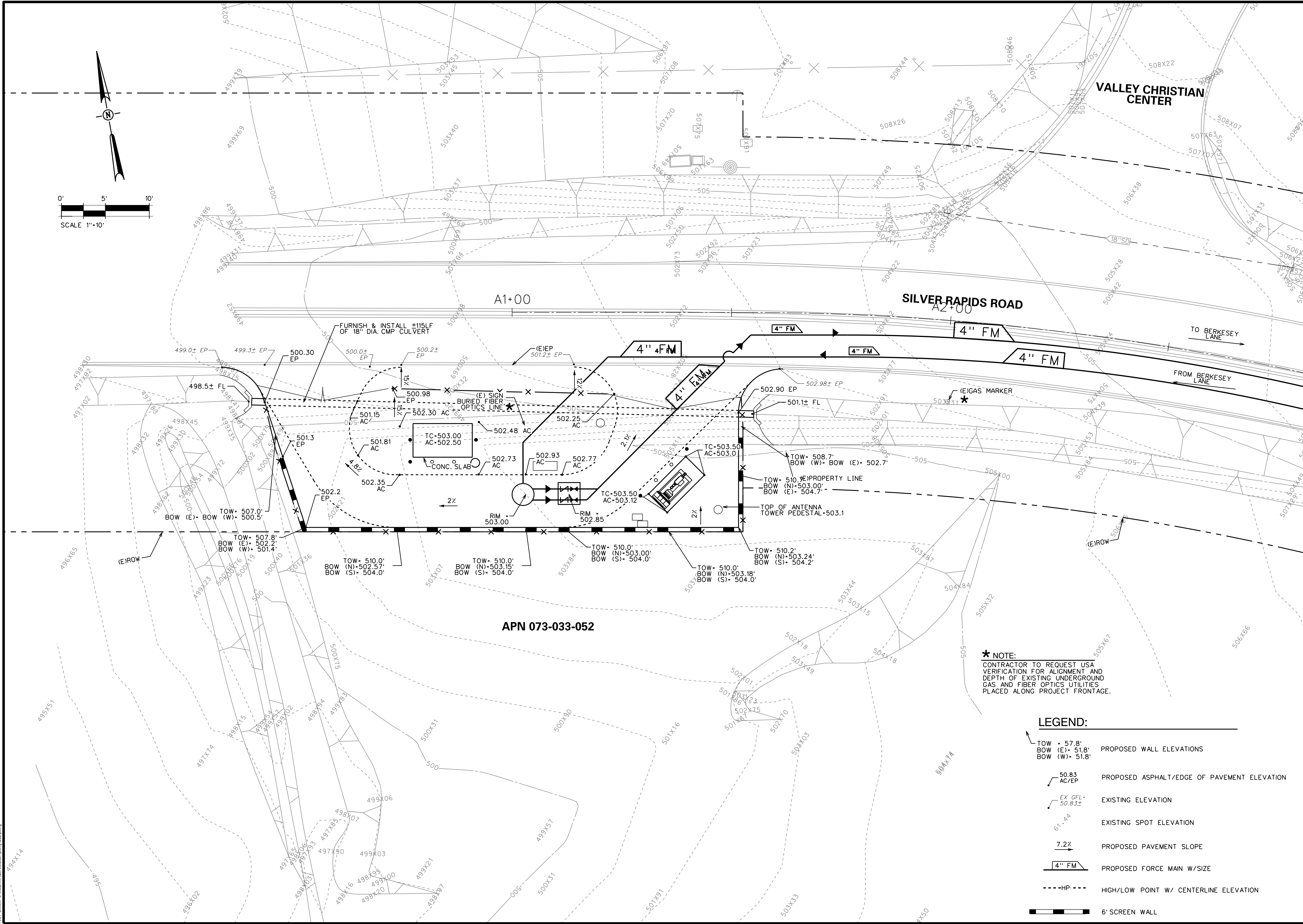
IMPROVEMENT PLANS FOR CONSTRUCTION OF
JENNYLIND ELEMENTARY SCHOOL
WASTEWATER TREATMENT PLANT UPGRADE PROJECT
CALAVERAS UNIFIED SCHOOL DISTRICT
CALAVERAS COUNTY

SILVER RAPIDS ROAD
INTERMEDIATE LIFT STATION - SITE PLAN

SHEET 36A OF 102

- ## NOTES:
- ① ELECTRICAL AND INSTRUMENTATION CONTROL PANELS, SEE ELECTRICAL PLAN SHEETS
 - ② STANDBY GENERATOR SEE ELECTRICAL PLAN SHEETS
 - ③ PERIMETER FENCE, SEE SHEET 53
 - ④ DOUBLE GATE, SEE DETAIL $\frac{4}{50}$
 - ⑤ 72" DIAMETER TRAFFIC RATED LIFT STATION WET WELL SEE SHEET 36D
 - ⑥ TRAFFIC RATED VALVE VAULT, SEE DETAIL $\frac{2}{9A}$
 - ⑦ SCADA TELEMETRY ANTENNA TOWER, SEE ELECTRICAL PLAN SHEETS
 - ⑧ WOODCRETE SCREEN WALL, SEE SHEET 53
 - ⑨ 18" DIA CMP STORM DRAIN CULVERT
 - ⑩ FLARED END SECTION, SEE DETAIL $\frac{8}{50}$
 - ⑪ PLACE "DO NOT ENTER" SIGNS, SEE DETAIL $\frac{2}{8}$
 - ⑫ LIGHT POLE SEE ELECTRICAL PLAN SHEETS
 - ⑬ PULL BOX SEE ELECTRICAL PLAN SHEETS
 - ⑭ INSTRUMENT PANELS SEE ELECTRICAL PLAN SHEETS

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CHECKED BY: J. B. BROWN
SCALE: 1"=10'



REVISIONS		DATE		BY	
NO.	DESCRIPTION				

100% RELEASE	
RELEASE 4	DATE: JULY 2023
SCALE:	JOB NO. 1337-01

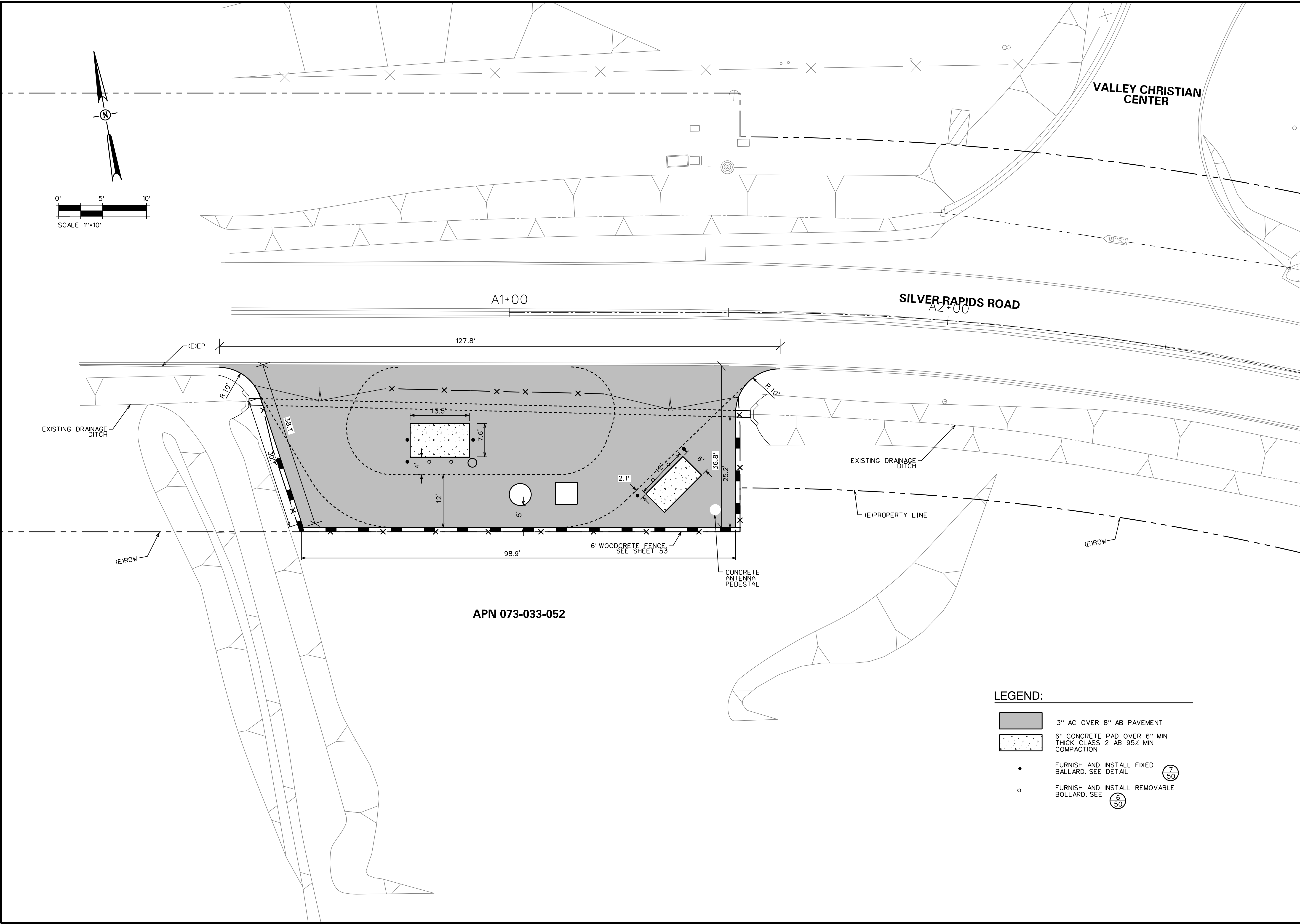
REGISTERED PROFESSIONAL ENGINEER
J. B. BROWN
No. 26388
Exp. 3-31-24
STATE OF CALIFORNIA

IMPROVEMENT PLANS FOR CONSTRUCTION OF JENNY LIND ELEMENTARY SCHOOL WASTEWATER TREATMENT PLANT UPGRADE PROJECT CALAVERAS UNIFIED SCHOOL DISTRICT CALAVERAS COUNTY		SILVER RAPIDS ROAD INTERMEDIATE LIFT STATION - GRADING PLAN	
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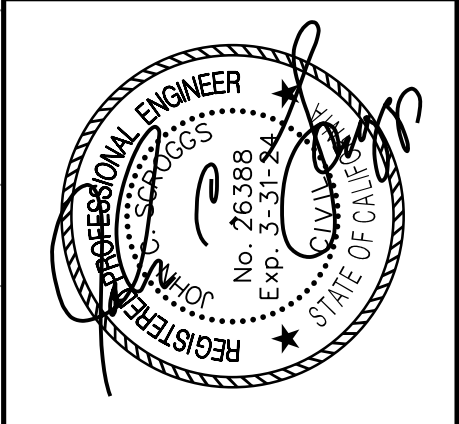
CONSULTING
KASL
ENGINEERS
CIVIL - WATER RESOURCES - SURVEYING

7777 Greenback Lane
Suite 104
Citrus Heights, CA 95610
Tel: (916) 722-1800
Fax: (916) 722-4995

SHEET 36B OF 102

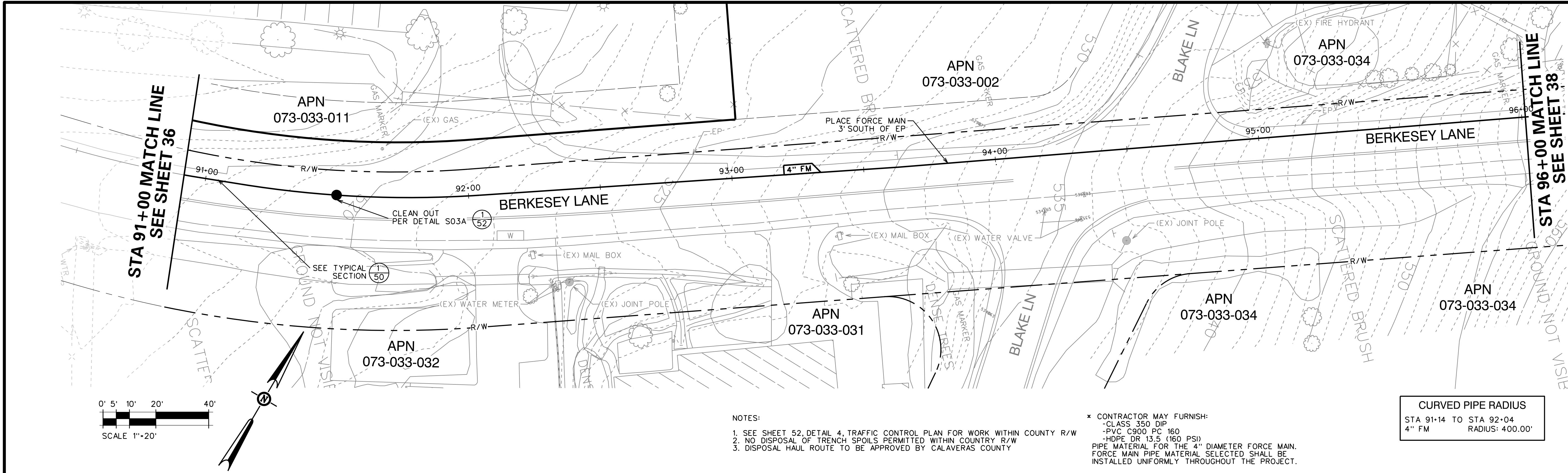
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100% RELEASE	
SCALE:	RELEASE 4
JOB NO.	1337-01
DATE: JULY 2023	



IMPROVEMENT PLANS FOR CONSTRUCTION OF JENNYLIND ELEMENTARY SCHOOL WASTEWATERTREATMENT PLANT UPGRADE PROJECT CALAVERAS UNIFIED SCHOOL DISTRICT CALAVERAS COUNTY	SILVER RAPIDS ROAD INTERMEDIATE LIFT STATION - PAVEMENT PLAN
--	---

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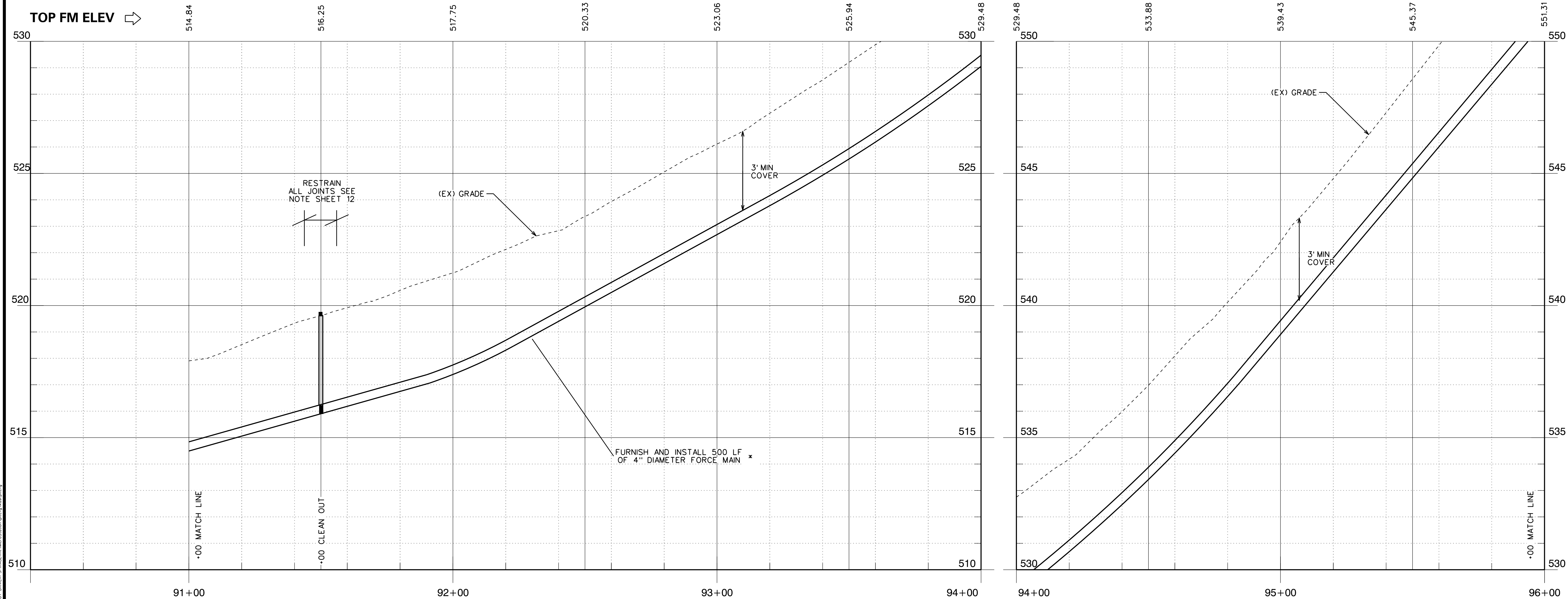


NOTES:

- SEE SHEET 52, DETAIL 4, TRAFFIC CONTROL PLAN FOR WORK WITHIN COUNTY R/W
- NO DISPOSAL OF TRENCH SPOILS PERMITTED WITHIN COUNTY R/W
- DISPOSAL HAUL ROUTE TO BE APPROVED BY CALAVERAS COUNTY

* CONTRACTOR MAY FURNISH:
-CLASS 350 DIP
-PVC C900 PC 160
-HDPE DR 13.5 (160 PSI)
PIPE MATERIAL FOR THE 4" DIAMETER FORCE MAIN.
FORCE MAIN PIPE MATERIAL SELECTED SHALL BE
INSTALLED UNIFORMLY THROUGHOUT THE PROJECT.

CURVED PIPE RADIUS
STA 91+14 TO STA 92+04
4" FM RADIUS: 400.00'



REVISIONS		DATE		BY	
NO.	DESCRIPTION				

100% RELEASE

RELEASE 4
DATE: JULY 2023

SCALE:
JOB NO. 1337-01

REGISTERED PROFESSIONAL ENGINEER
J. GREENBACK
No. 26388
Exp. 3-31-24
STATE OF CALIFORNIA

IMPROVEMENT PLANS FOR CONSTRUCTION OF
JENNY LIND ELEMENTARY SCHOOL
WASTEWATER TREATMENT PLANT UPGRADE PROJECT
CALAVERAS UNIFIED SCHOOL DISTRICT
CALAVERAS COUNTY

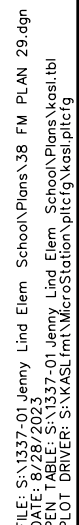
BERKESEY LANE
STA 91+00 TO STA 96+00

KASL
ENGINEERS

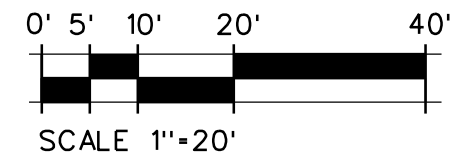
7777 Greenback Lane
Suite 104
Citrus Heights, CA 95610
Tel: (916) 722-1800
Fax: (916) 722-4995

CIVIL - WATER RESOURCES - SURVEYING

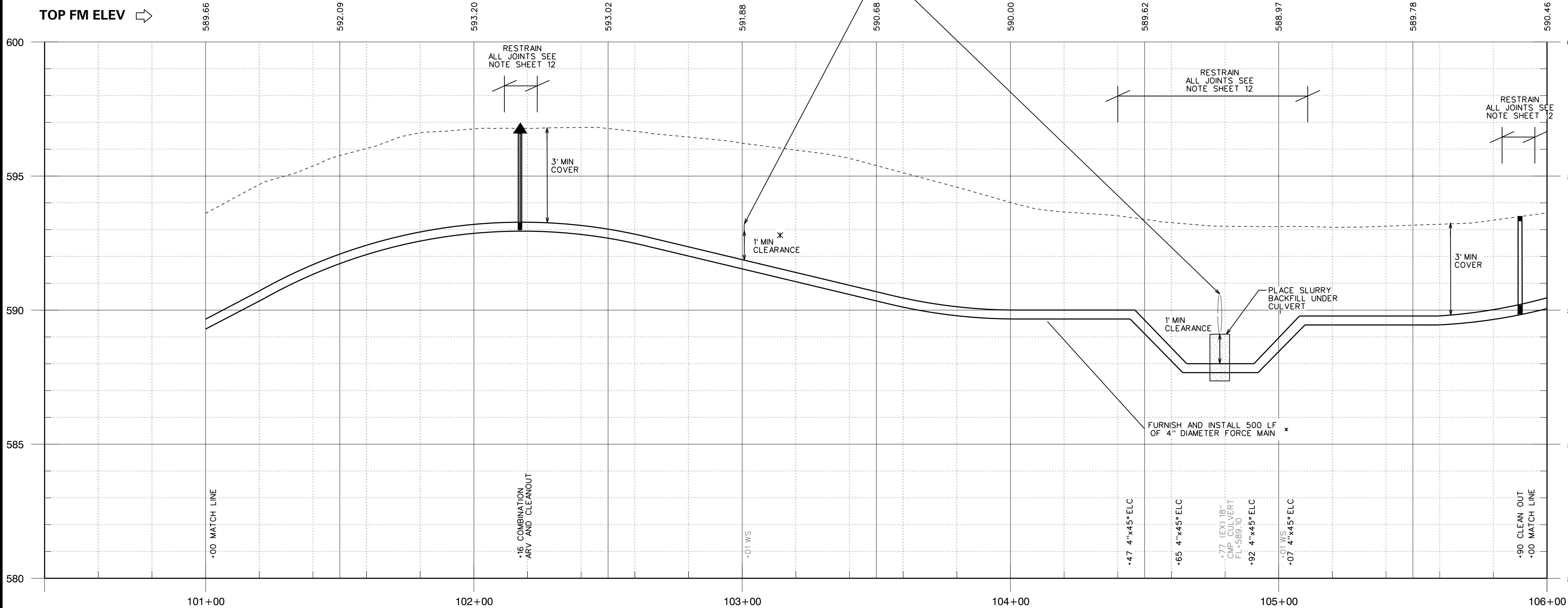
SHEET 37 OF 102



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CHECKED BY: J. B. BARNES
SCALE: 1"=20'



TOP FM ELEV

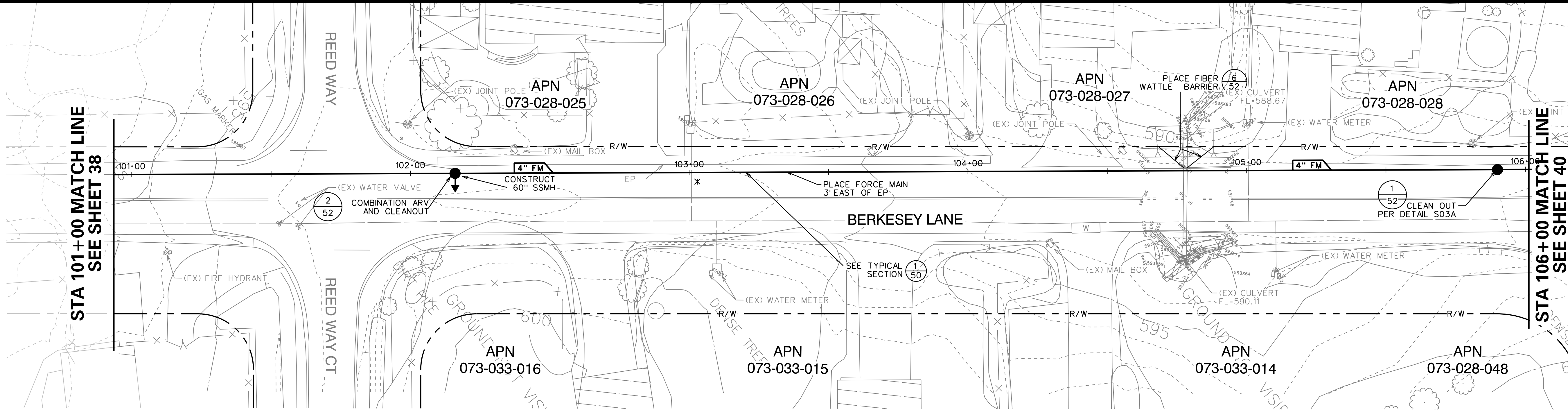


CONTRACTOR TO POTHOLE AND VERIFY EXISTING WATER MAIN DEPTH. FORCE MAIN ALIGNMENT TO BE ADJUSTED AS NECESSARY

NOTES:

1. SEE SHEET 52, DETAIL 4, TRAFFIC CONTROL PLAN FOR WORK WITHIN COUNTY R/W
2. NO DISPOSAL OF TRENCH SPOILS PERMITTED WITHIN COUNTRY R/W
3. DISPOSAL HAUL ROUTE TO BE APPROVED BY CALAVERAS COUNTY

* CONTRACTOR MAY FURNISH:
-CLASS 350 DIP
-PVC C900 PC 160
-HDPE DR 13.5 (160 PSI)
PIPE MATERIAL FOR THE 4" DIAMETER FORCE MAIN.
FORCE MAIN PIPE MATERIAL SELECTED SHALL BE
INSTALLED UNIFORMLY THROUGHOUT THE PROJECT.



REVISIONS		DATE	BY
NO.	DESCRIPTION		

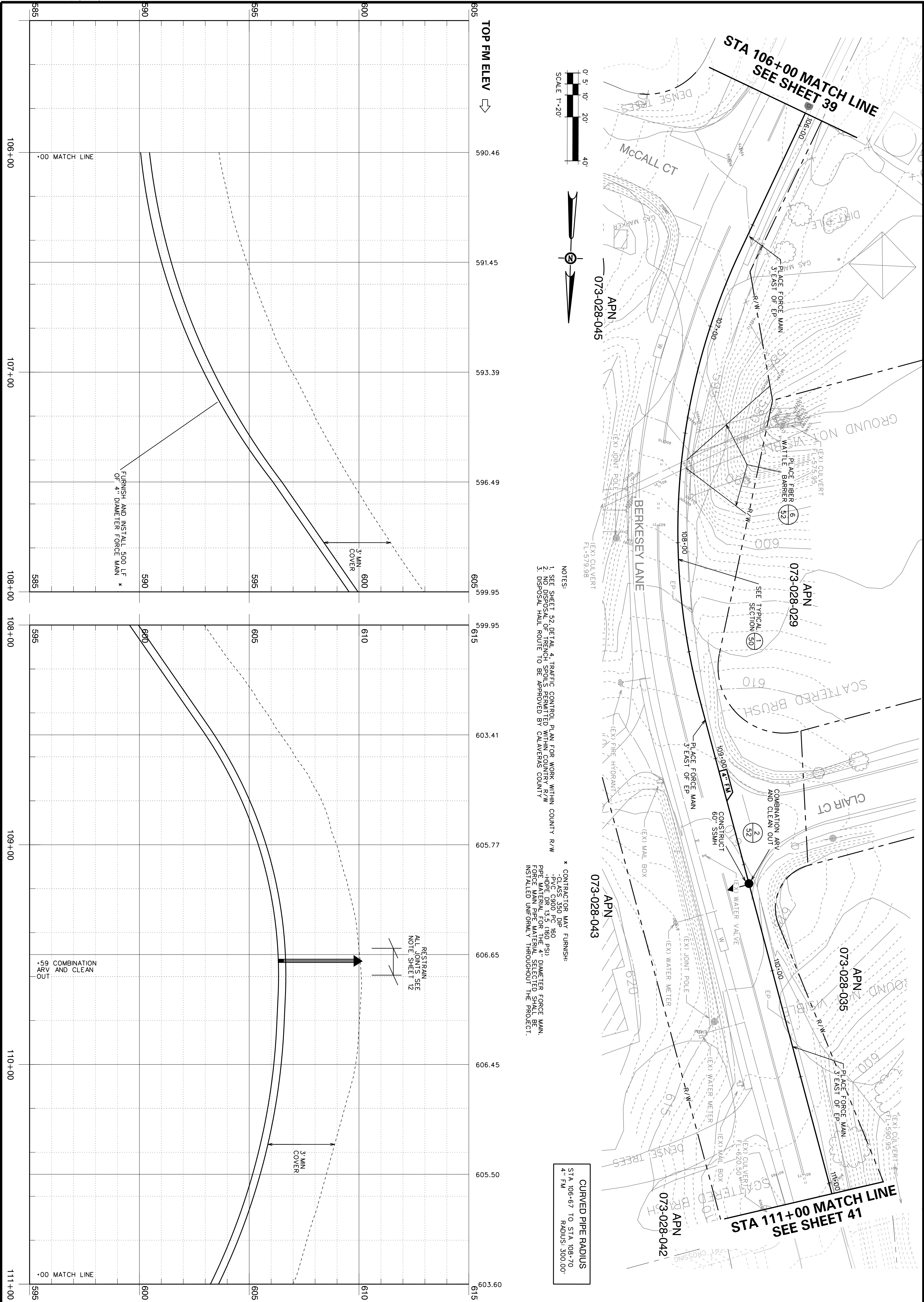
100% RELEASE	RELEASE 4	DATE: JULY 2023
	SCALE: 1"=20'	JOB NO. 1337-01

REGISTERED PROFESSIONAL ENGINEER
J. B. BARNES
No. 26388
Exp. 3-31-24
STATE OF CALIFORNIA

IMPROVEMENT PLANS FOR CONSTRUCTION OF JENNY LIND ELEMENTARY SCHOOL WASTEWATER TREATMENT PLANT UPGRADE PROJECT CALAVERAS UNIFIED SCHOOL DISTRICT CALAVERAS COUNTY	BERKESEY LANE STA 101+00 TO STA 106+00
--	---

KASL ENGINEERS CONSULTING CIVIL - WATER RESOURCES - SURVEYING	7777 Greenback Lane Suite 104 Citrus Heights, CA 95610 Tel. (916) 722-1800 Fax (916) 722-4995
---	---

SHEET 39 OF 102



NOTES:
1. SEE SHEET 52, DETAIL 4, TRAFFIC CONTROL PLAN FOR WORK WITHIN COUNTY R/W
2. NO DISPOSAL OF FRENCH SPILLS PERMITTED WITHIN COUNTY R/W
3. DISPOSAL SHALL ROUTE TO BE APPROVED BY CALAVERAS COUNTY

* CONTRACTOR MAY FURNISH:
- CLASS 350 DIP
- HDPE 360 IP (60 PSI)
- HDPE 360 IP (100 PSI)
PIPE MATERIAL FOR THE 4" DIAMETER FORCE MAIN
FORCE MAIN PIPE MATERIAL SELECTED SHALL BE
INSTALLED UNIFORMLY THROUGHOUT THE PROJECT.

CURVED PIPE RADIUS
STA 106+67 TO STA 108+70
4" FM RADIUS: 300.00'

REGISTERED PROFESSIONAL ENGINEER
No. 26388
Exp. 3-31-24
CLAYTON
STATE OF CALIFORNIA

100% RELEASE

SCALE:
JOB NO. 1337-01

RELEASE 4
DATE: JULY 2023

REVISIONS			
NO.	DESCRIPTION	DATE	BY

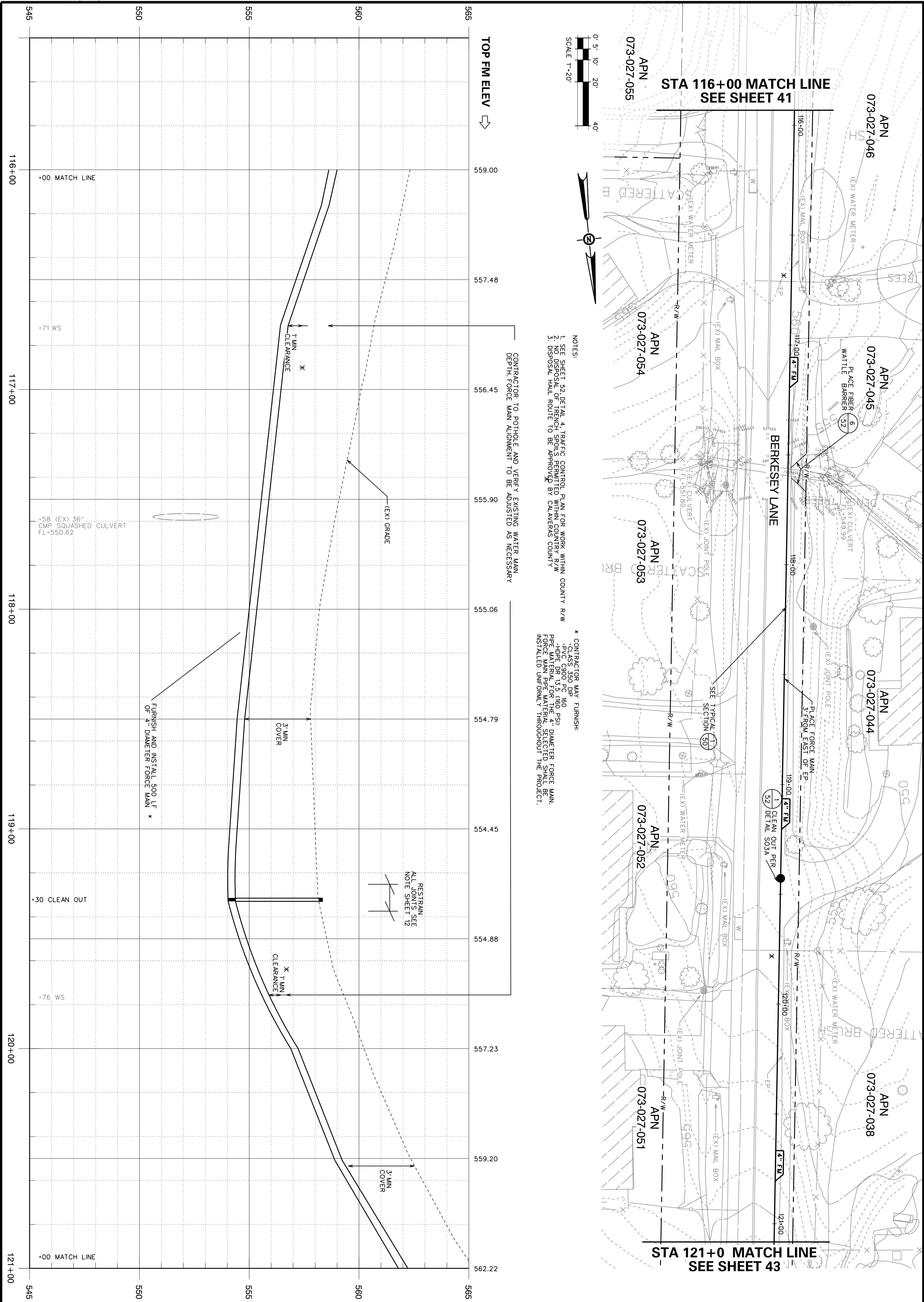
CONSULTING ENGINEERS
KASL
CIVIL - WATER RESOURCES - SURVEYING

7777 Gravenack Lane
Suite 100
Santa Helena, CA 94576
Tel: (916) 722-0800
Fax: (916) 722-0985

IMPROVEMENT PLANS FOR CONSTRUCTION OF
**JENNYLIND ELEMENTARY SCHOOL
WASTEWATERTREATMENT PLANT UPGRADE PROJECT**
CALAVERAS UNIFIED SCHOOL DISTRICT
CALAVERAS COUNTY

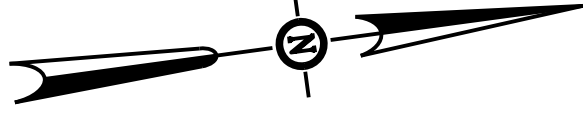
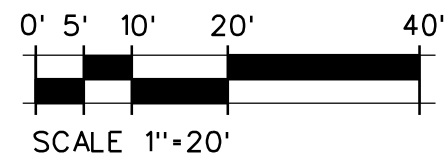
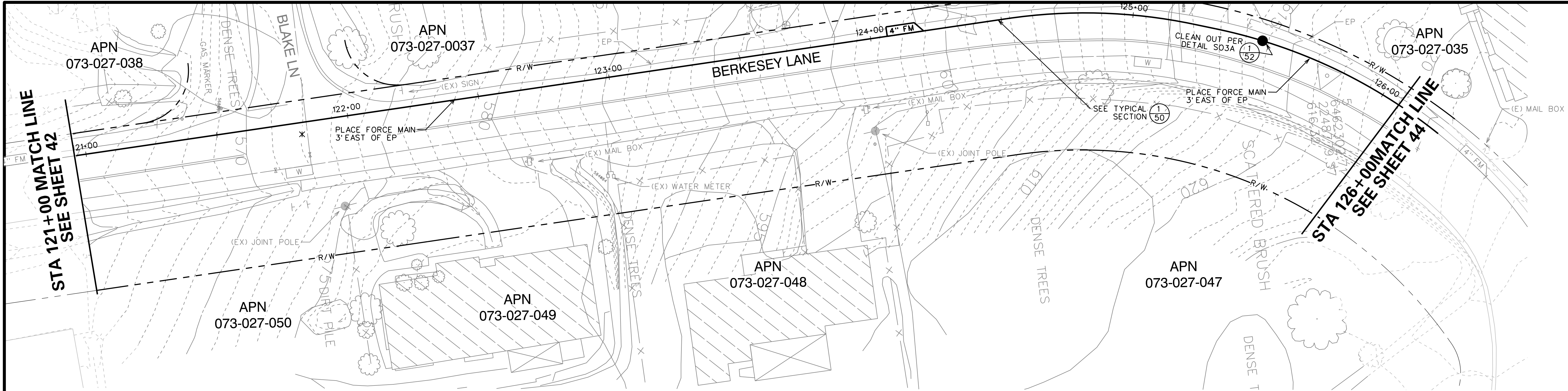
**BERKESEY LANE
STA 106+00TO STA 111+00**

SHEET 40 OF 102



REGISTERED PROFESSIONAL ENGINEER No. 26388 Exp. 3-31-24 CIVIL STATE OF CALIFORNIA		100% RELEASE		REVISIONS <table><thead><tr><th>NO.</th><th>DESCRIPTION</th><th>DATE</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.	DESCRIPTION	DATE	BY																
NO.	DESCRIPTION	DATE	BY																						
IMPROVEMENT PLANS FOR CONSTRUCTION OF JENNYLIND ELEMENTARY SCHOOL WASTEWATERTREATMENT PLANT UPGRADE PROJECT CALAVERAS UNIFIED SCHOOL DISTRICT CALAVERAS COUNTY		SCALE: JOB NO. 1337-01		RELEASE 4 DATE: JULY 2023																					
BERKESEY LANE STA 116+00 TO STA 121+00		CONSULTING ENGINEERS KASL 7777 Greenwood Lane Suite 100 Santa Helena, CA 95870 Tel: (916) 722-0800 Fax: (916) 722-0985 CIVIL - WATER RESOURCES - SURVEYING																							
SHEET 42 OF 102																									

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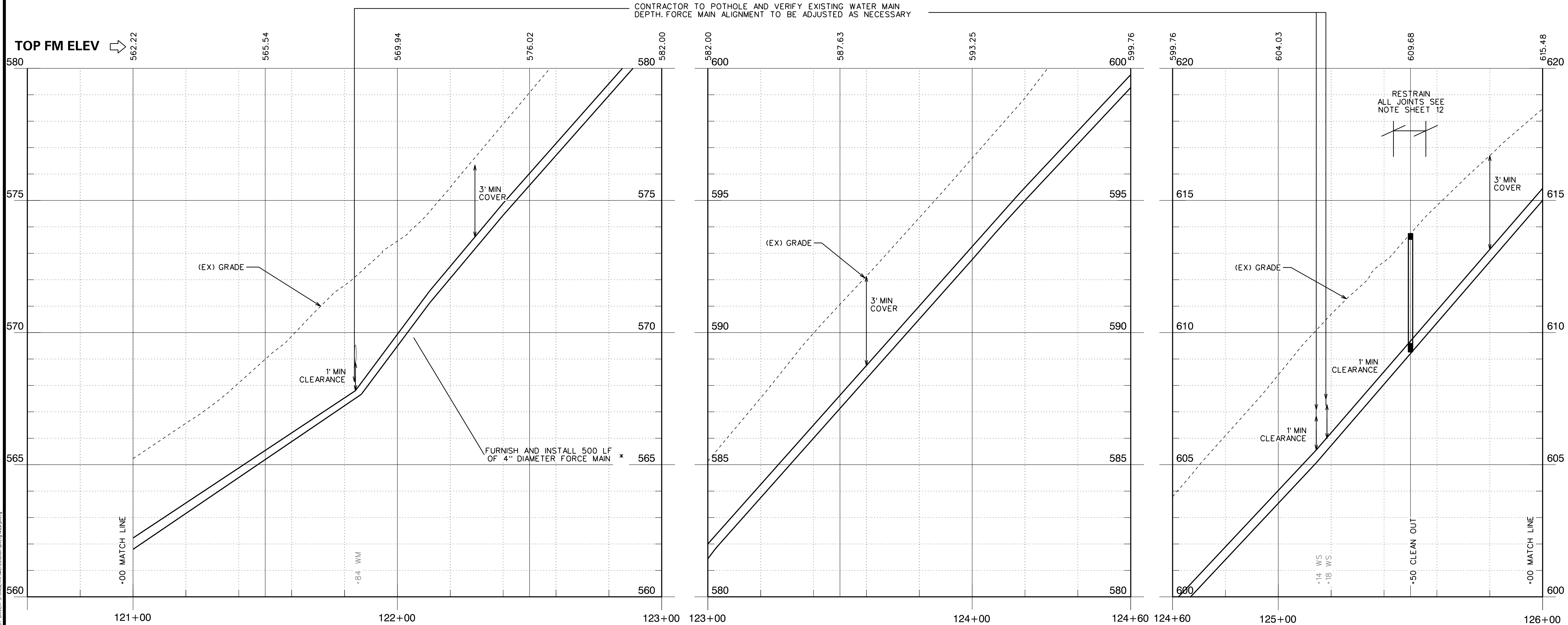


NOTES:

1. SEE SHEET 52, DETAIL 4, TRAFFIC CONTROL PLAN FOR WORK WITHIN COUNTY R/W
2. NO DISPOSAL OF TRENCH SPOILS PERMITTED WITHIN COUNTRY R/W
3. DISPOSAL HAUL ROUTE TO BE APPROVED BY CALAVERAS COUNTY

* CONTRACTOR MAY FURNISH:
-CLASS 350 DIP
-PVC C900 PC 160
-HDPE DR 15.5 (160 PSI)
PIPE MATERIAL FOR THE 4" DIAMETER FORCE MAIN.
FORCE MAIN PIPE MATERIAL SELECTED SHALL BE
INSTALLED UNIFORMLY THROUGHOUT THE PROJECT.

CURVED PIPE RADIUS
STA 124+52 TO STA 126+98
4" FM RADIUS: 200.00'



REVISIONS		DATE		BY	
NO.	DESCRIPTION				

100% RELEASE

RELEASE 4
DATE: JULY 2023

SCALE: 1"=20'

JOB NO. 1337-01

REGISTERED PROFESSIONAL ENGINEER
JENNIFER L. JENNY
No. 26388
Exp. 3-31-24
DATE OF CALCULATION: 06/29/2017

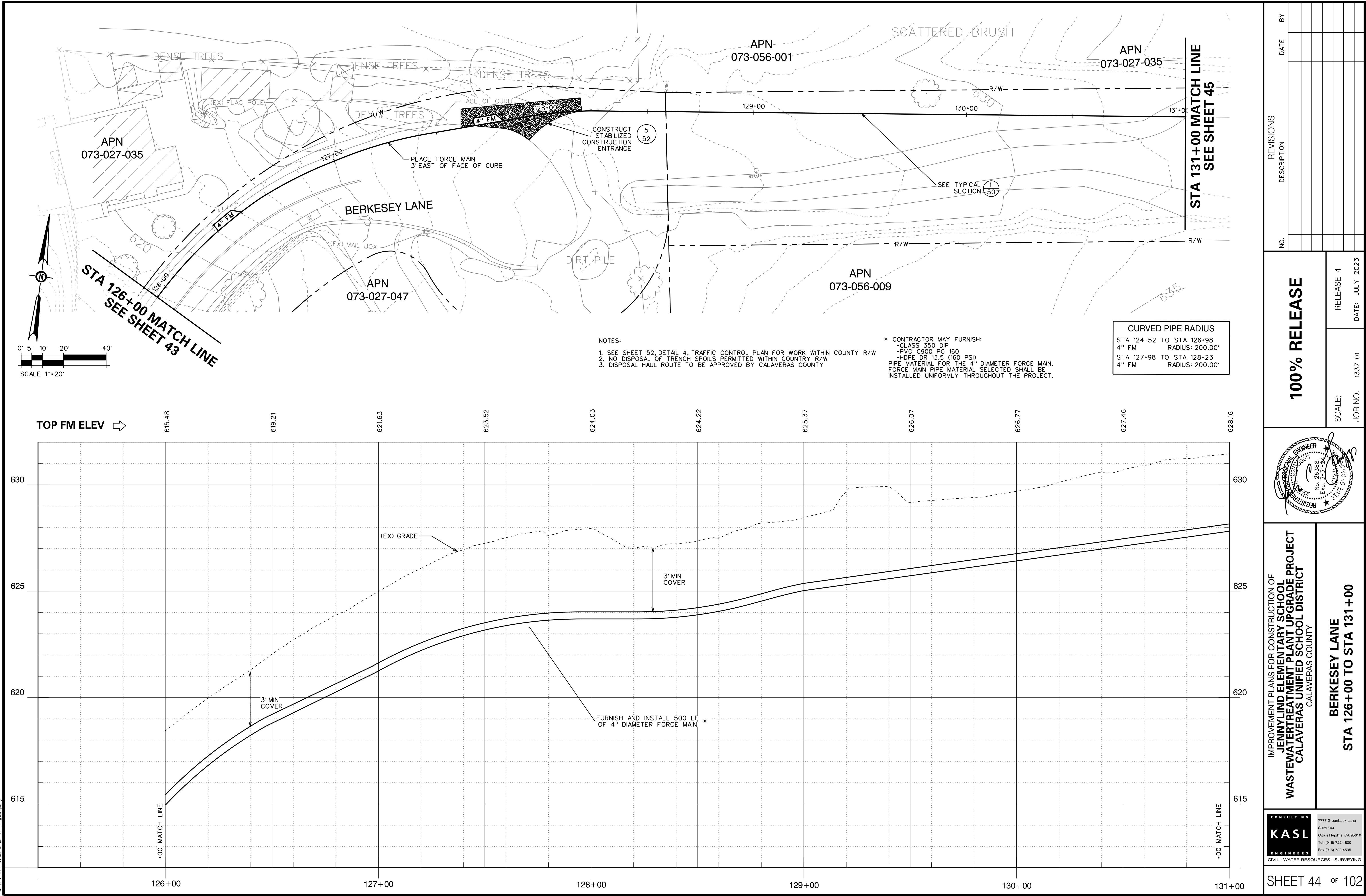
IMPROVEMENT PLANS FOR CONSTRUCTION OF
JENNY LIND ELEMENTARY SCHOOL
WASTEWATER TREATMENT PLANT UPGRADE PROJECT
CALAVERAS UNIFIED SCHOOL DISTRICT
CALAVERAS COUNTY

CONSULTING
KASL
ENGINEERS

7777 Greenback Lane
Suite 104
Citrus Heights, CA 95610
Tel: (916) 722-1800
Fax: (916) 722-4995
CIVIL - WATER RESOURCES - SURVEYING

SHEET 43 OF 102

FILE: S:\1337-00\Jenny Lind Elem. School\Plan\144 FM PLAN 15.dwg
DATE: 10/26/2017 10:47 AM User: jenny.lind
C:\Users\jenny.lind\Documents\144 FM PLAN 15.dwg



REVISIONS		DATE		BY	
NO.	DESCRIPTION				

100% RELEASE

RELEASE 4

DATE: JULY 2023

SCALE: 1"=20'

JOB NO. 1337-01

PROFESSIONAL ENGINEER

JOHN J. GOSWAMI

No. 26388

Exp. 3-31-24

DATE OF CALCULATION: 10/26/2017

IMPROVEMENT PLANS FOR CONSTRUCTION OF
**JENNY LIND ELEMENTARY SCHOOL
WASTEWATER TREATMENT PLANT UPGRADE PROJECT**
CALAVERAS UNIFIED SCHOOL DISTRICT
CALAVERAS COUNTY

**BERKESEY LANE
STA 126+00 TO STA 131+00**

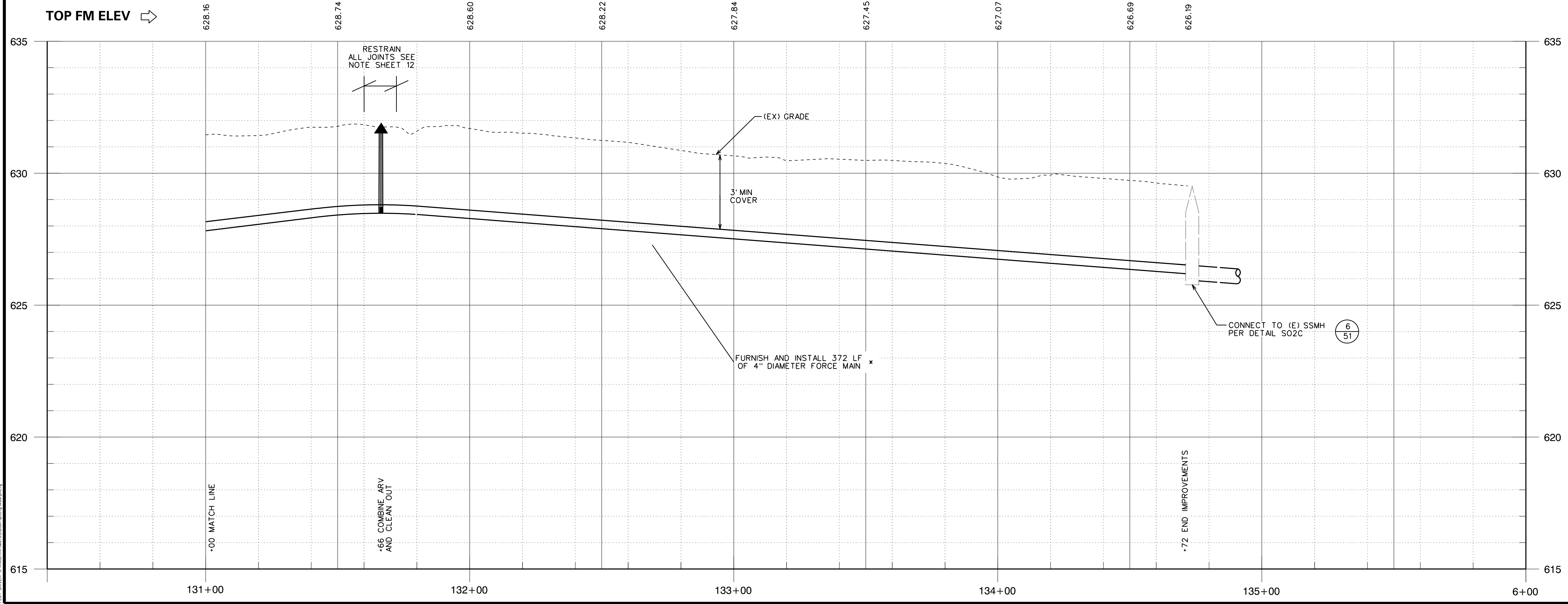
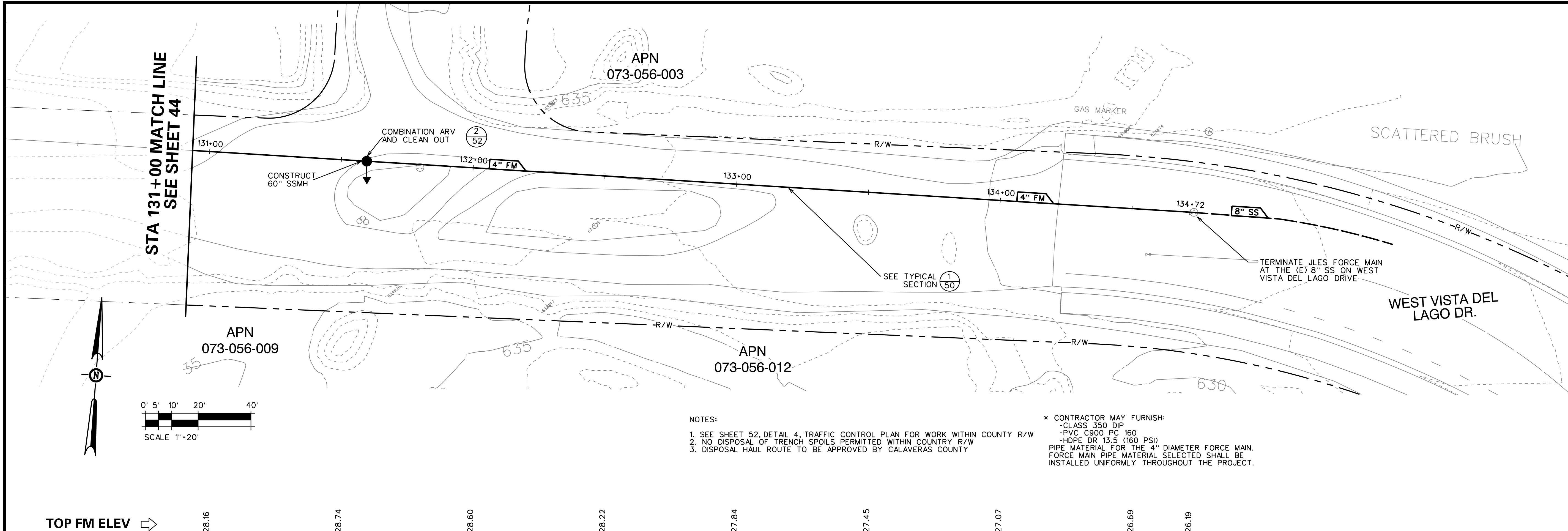
KASL ENGINEERS

7777 Greenback Lane
Suite 104
Citrus Heights, CA 95610
Tel: (916) 722-1800
Fax: (916) 722-4995

CIVIL - WATER RESOURCES - SURVEYING

SHEET 44 OF 102

FILE: S:\1337-00\Jenny Lind Elem. School\Plan\45 FM PLAN.dwg
DATE: 06/29/2017 09:47 AM User: jenny.lind
CUT: Berkesey Unified School District



REVISIONS		DATE		BY	
NO.	DESCRIPTION				

100% RELEASE

RELEASE 4
DATE: JULY 2023

SCALE:
JOB NO. 1337-01

JOHN M. MCGEE
No. 26388
Exp. 3-31-24
STATE OF CALIFORNIA
REGISTERED PROFESSIONAL ENGINEER
CIVIL

IMPROVEMENT PLANS FOR CONSTRUCTION OF
JENNY LIND ELEMENTARY SCHOOL
WASTEWATER TREATMENT PLANT UPGRADE PROJECT
CALAVERAS UNIFIED SCHOOL DISTRICT
CALAVERAS COUNTY

BERKESEY LANE
STA 131+00 TO STA 134+72

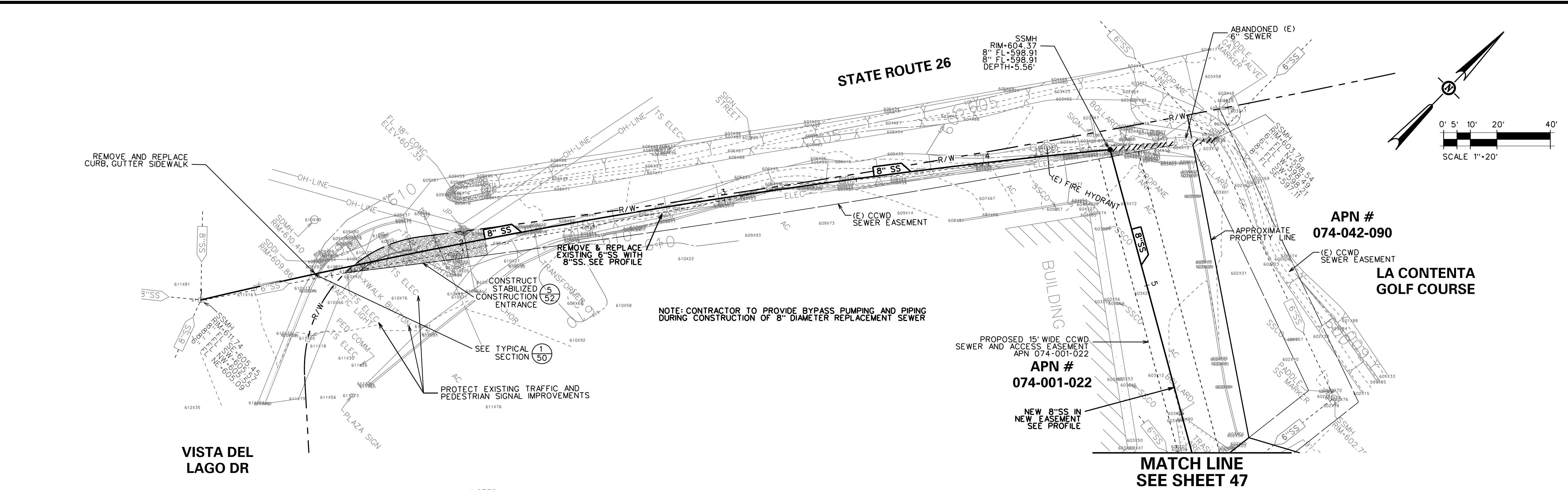
KASL
ENGINEERS
CIVIL - WATER RESOURCES - SURVEYING

7777 Greenback Lane
Suite 104
Citrus Heights, CA 95610
Tel: (916) 722-1800
Fax: (916) 722-4995

SHEET 45

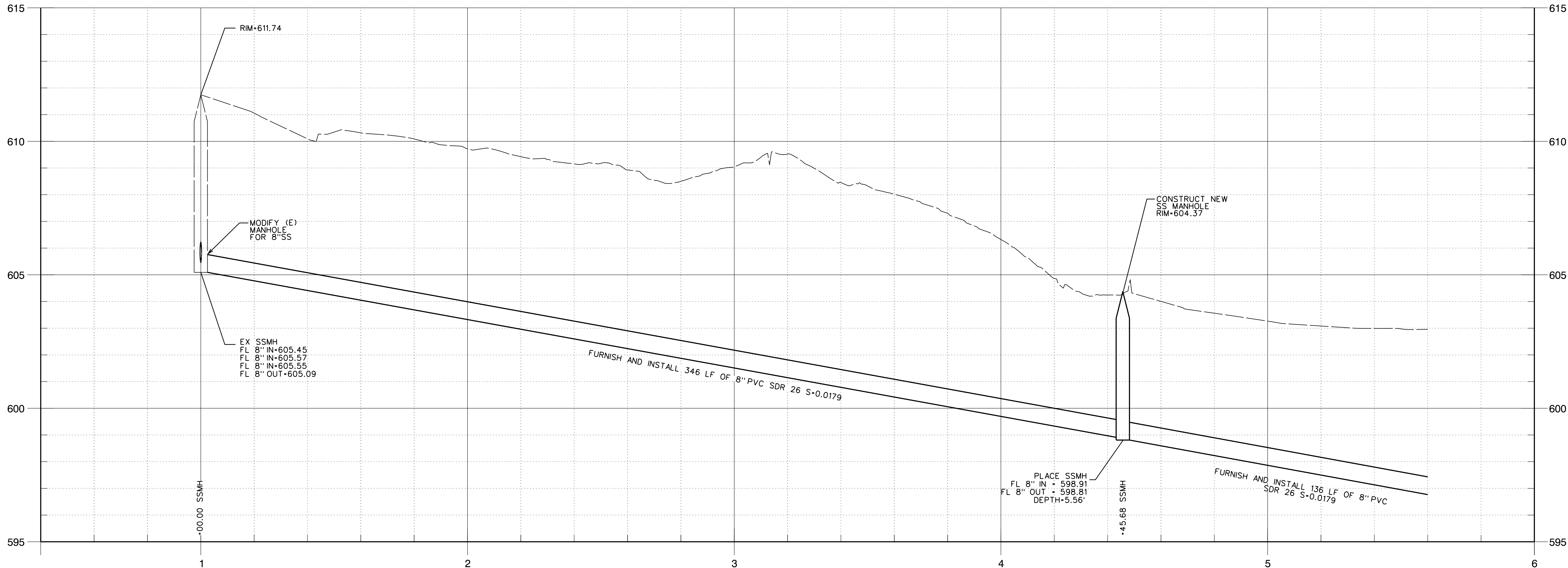
OF 102

FILE: S:\1337-00-Improvement Plans\Plan 46 OFF SITE SS PLAN.dgn
DATE: 06/28/2017 10:47:00 AM
DRAWN BY: J. Greenback
CHECKED BY: J. Greenback
APPROVED BY: J. Greenback



NOTE:
STA 1+00 TO 5+60 REMOVE AND REPLACE EXISTING 6" SS WITH 8" SS

- NOTES:
1. SEE SHEET 52, DETAIL 4, TRAFFIC CONTROL PLAN FOR WORK WITHIN COUNTY R/W
 2. NO DISPOSAL OF TRENCH SPOILS PERMITTED WITHIN COUNTY R/W
 3. DISPOSAL HAUL ROUTE TO BE APPROVED BY CALAVERAS COUNTY



REVISIONS		DATE		BY	
NO.	DESCRIPTION				

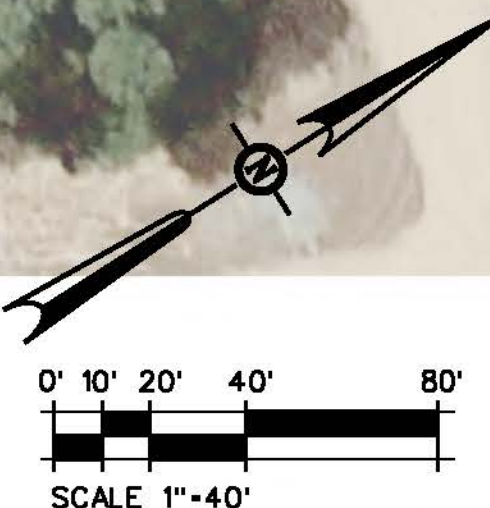
100% RELEASE		RELEASE 4	DATE: JULY 2023
SCALE:	JOB NO. 1337-01		

REGISTERED PROFESSIONAL ENGINEER
J. GREENBACK
No. 26388
Exp. 3-31-24
STATE OF CALIFORNIA

IMPROVEMENT PLANS FOR CONSTRUCTION OF JENNYLIND ELEMENTARY SCHOOL WASTEWATER TREATMENT PLANT UPGRADE PROJECT CALAVERAS UNIFIED SCHOOL DISTRICT CALAVERAS COUNTY		GRAVITY SEWER LA CONTENTA COMMERCIAL AREA SS STA 1+00 TO STA 5+60	
---	--	--	--

KASL ENGINEERS CIVIL - WATER RESOURCES - SURVEYING	7777 Greenback Lane Suite 104 Citrus Heights, CA 95610 Tel: (916) 722-1800 Fax: (916) 722-4995
---	--

SHEET 46 OF 102

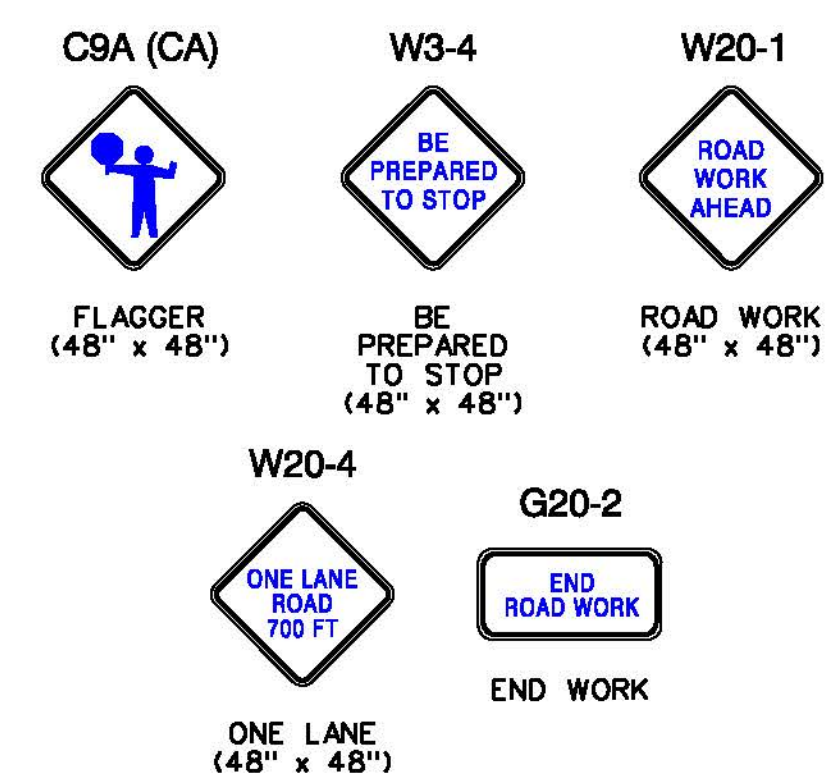


- FLAGGER PER CALIFORNIA MUTCD, PART 6.
- 36" TUBULAR CHANNELIZING MARKERS PER CALIFORNIA MUTCD, PART 6.
- XXX INSTALL SIGN TYPE AS INDICATED

 ONE WAY TRAFFIC FLOW

NOTE: CONTRACTOR TO FURNISH PORTABLE CHANGEABLE MESSAGE SIGNS AS REQUIRED BY CALTRANS.

- * EXISTING DRIVEWAY - CONTRACTOR
TO NOTIFY RESIDENTS OF RESTRICTED
ACCESS DURING CONSTRUCTION
OF IMPROVEMENT WITHIN SR26 R/W**



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DATE: 8/28/2023
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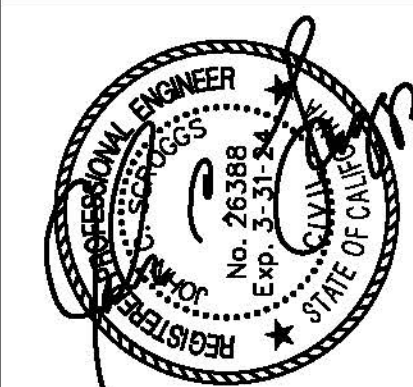
100% RELEASE

RELEASE 4

DATE: JULY 2023

SCALE:

JOB NO. 1337-01



IMPROVEMENT PLANS FOR CONSTRUCTION OF
JENNYLIND ELEMENTARY SCHOOL
WASTEWATER TREATMENT PLANT UPGRADE PROJECT
CALAVERAS UNIFIED SCHOOL DISTRICT
CALAVERAS COUNTY

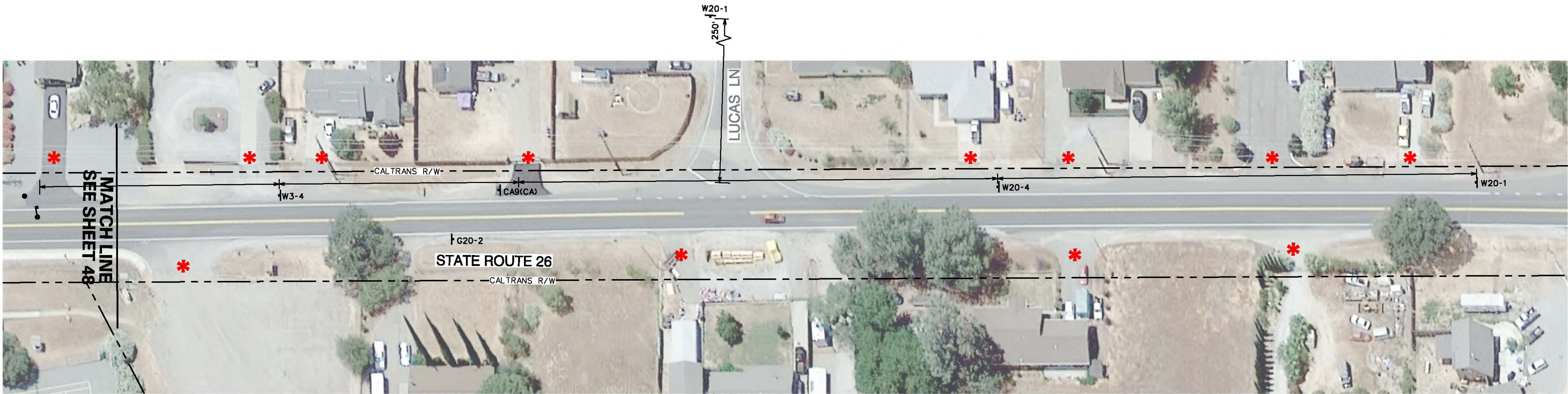
**JENNY LIND ELEMENTARY SCHOOL
STATE ROUTE 26 TRAFFIC CONTROL**

CONSULTING
KASL
ENGINEERS

7777 Greenback Lane
Suite 104
Citrus Heights, CA 95610
Tel. (916) 722-1800
Fax (916) 722-4595

CIVIL - WATER RESOURCES - SURVEYING

FILE: S:\1337-01.dwg, User: jerry, Unit: Feet, Sheet: 49 of 102, Title: JENNY LIND ELEMENTARY SCHOOL WASTEWATER TREATMENT PLANT UPGRADE PROJECT, Date: 11/16/2023, Time: 10:10:10 AM, Plot: 11/16/2023 10:10:10 AM, Plotter: HP DesignJet 500, Plot Size: 36x48 inches, Plot Scale: 1"=40'



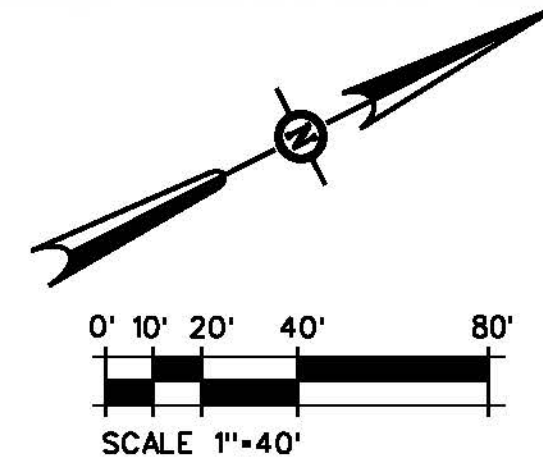
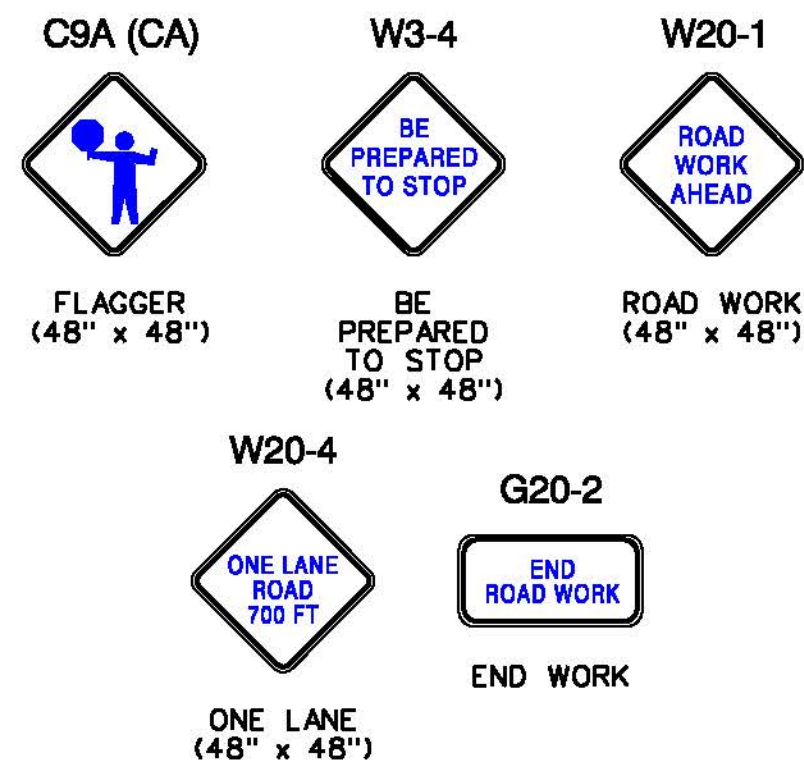
CONSTRUCTION TRAFFIC CONTROL LEGEND

- FLAGGER PER CALIFORNIA MUTCD, PART 6.
- 36" TUBULAR CHANNELIZING MARKERS PER CALIFORNIA MUTCD, PART 6.
- XXX INSTALL SIGN TYPE AS INDICATED

ONE WAY TRAFFIC FLOW

NOTE: CONTRACTOR TO FURNISH PORTABLE CHANGEABLE MESSAGE SIGNS AS REQUIRED BY CALTRANS.

* EXISTING DRIVEWAY - CONTRACTOR TO NOTIFY RESIDENTS OF RESTRICTED ACCESS DURING CONSTRUCTION OF IMPROVEMENT WITHIN SR26 R/W



REVISIONS		DATE	BY
NO.	DESCRIPTION		

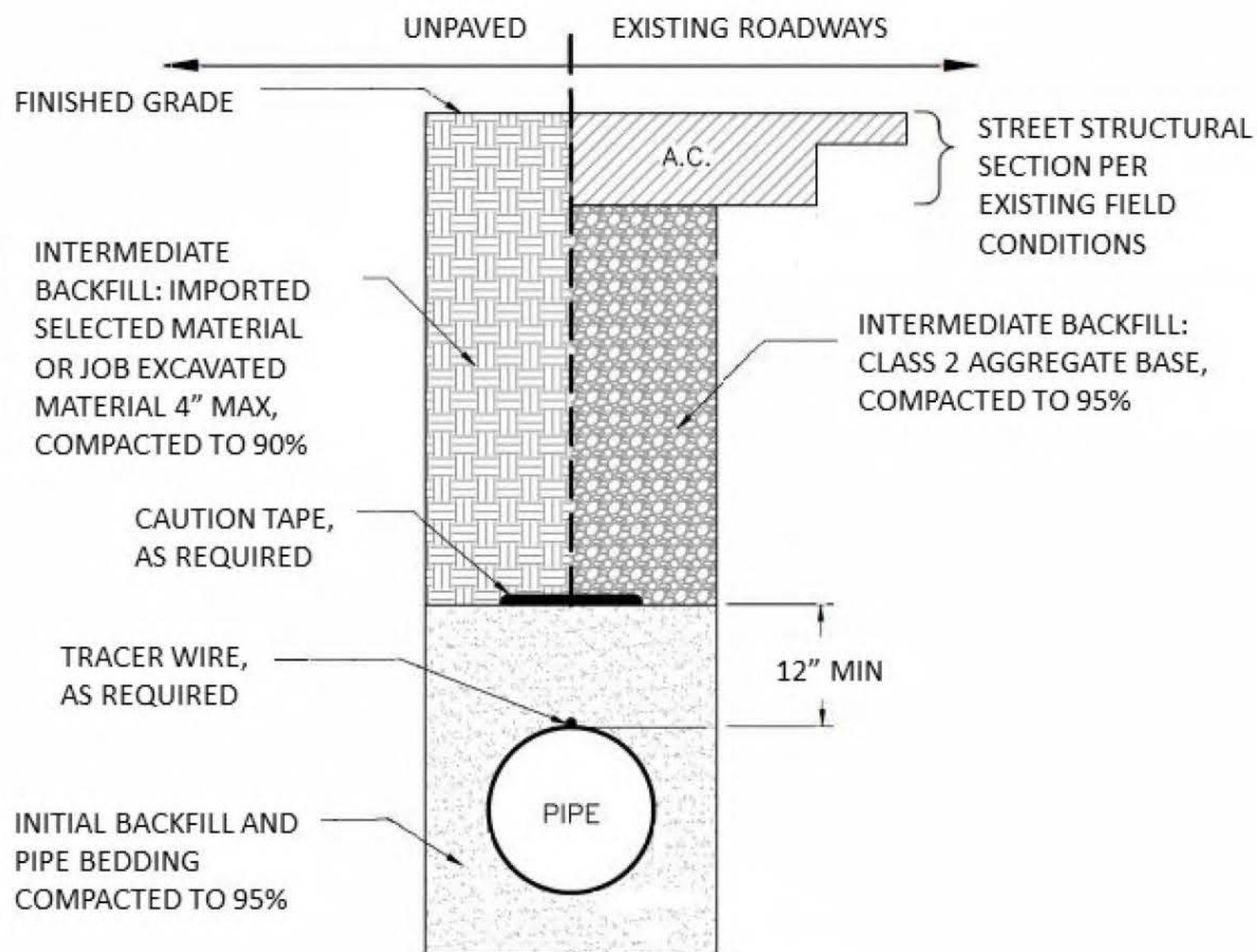
100% RELEASE	RELEASE 4	DATE: JULY 2023
	SCALE: 1"=40'	JOB NO. 1337-01

IMPROVEMENT PLANS FOR CONSTRUCTION OF
**JENNY LIND ELEMENTARY SCHOOL
WASTEWATER TREATMENT PLANT UPGRADE PROJECT**
CALAVERAS UNIFIED SCHOOL DISTRICT
CALAVERAS COUNTY

**JENNY LIND ELEMENTARY SCHOOL
STATE ROUTE 26 TRAFFIC CONTROL**

KASL ENGINEERS CIVIL - WATER RESOURCES - SURVEYING	7777 Greenback Lane Suite 104 Corte Madera, CA 94929 Tel: (916) 722-1800 Fax: (916) 722-4996
---	--

SHEET 49 OF 102



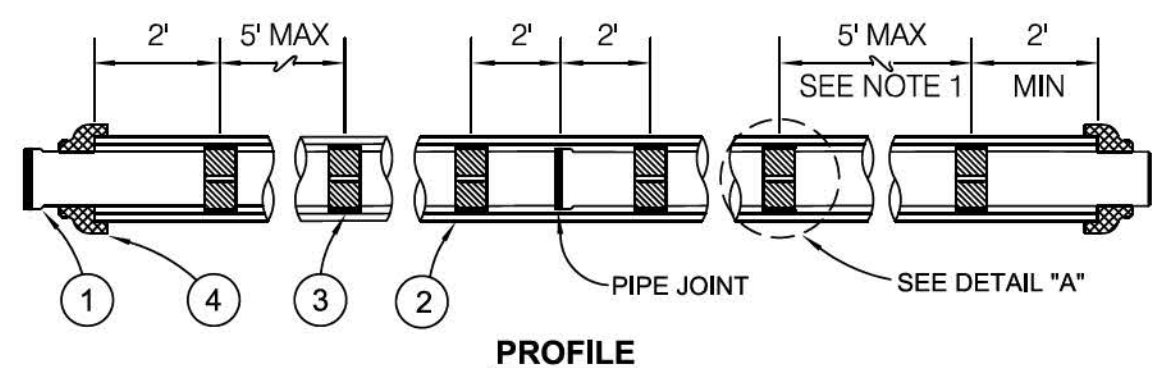
NOTES:

1. MINIMUM COVER FROM TOP OF PIPE TO FINISHED GRADE SHALL BE 36 INCHES.
2. PAVEMENT SAW CUT SHALL BE CLEAN AND STRAIGHT LINES, PARALLEL AND PERPENDICULAR TO EXISTING ROADWAY IMPROVEMENTS.
3. EXISTING ROADWAY INCLUDES 3 FEET BEYOND EDGE OF PAVEMENT.
4. SAWCUT OR GRIND PAVEMENT A MIN. OF 1 FOOT BEYOND EACH SIDE OF TRENCH CUT.
5. REPLACE PAVEMENT ALL THE WAY TO THE EDGE OF PAVEMENT IF EXCAVATION IS WITHIN 3 FEET OF THE EDGE OF PAVEMENT.
6. INITIAL BACKFILL MATERIAL TO BE SPECIFIED BY UTILITY.

CALAVERAS COUNTY PUBLIC WORKS TRENCH RESTORATION DETAIL

NO SCALE

1
-



PROFILE

ITEM	DESCRIPTION
1	CARRIER / WATER MAIN, CLASS 300 DUCTILE IRON PIPE WITH REINFORCED JOINTS (A.S.T.M. A139, A139M, A139N, A139P, A139Q, A139R, A139S, A139T, A139U, A139V, A139W, A139X, A139Y, A139Z, A139AA, A139AB, A139AC, A139AD, A139AE, A139AF, A139AG, A139AH, A139AI, A139AJ, A139AK, A139AL, A139AM, A139AN, A139AO, A139AP, A139AQ, A139AR, A139AS, A139AT, A139AU, A139AV, A139AW, A139AX, A139AY, A139AZ, A139BA, A139BB, A139BC, A139BD, A139BE, A139BF, A139BG, A139BH, A139BI, A139BJ, A139BK, A139BL, A139BM, A139BN, A139BO, A139BP, A139BQ, A139BR, A139BS, A139BT, A139BU, A139BV, A139BW, A139BX, A139BY, A139BZ, A139CA, A139CB, A139CC, A139CD, A139CE, A139CF, A139CG, A139CH, A139CI, A139CJ, A139CK, A139CL, A139CM, A139CN, A139CO, A139CP, A139CQ, A139CR, A139CS, A139CT, A139CU, A139CV, A139CW, A139CX, A139CY, A139CZ, A139DA, A139DB, A139DC, A139DD, A139DE, A139DF, A139DG, A139DH, A139DI, A139DJ, A139DK, A139DL, A139DM, A139DN, A139DO, A139DP, A139DQ, A139DR, A139DS, A139DT, A139DU, A139DV, A139DW, A139DX, A139DY, A139DZ, A139EA, A139EB, A139EC, A139ED, A139EE, A139EF, A139EG, A139EH, A139EI, A139EJ, A139EK, A139EL, A139EM, A139EN, A139EO, A139EP, A139EQ, A139ER, A139ES, A139ET, A139EU, A139EV, A139EW, A139EX, A139EY, A139EZ, A139FA, A139FB, A139FC, A139FD, A139FE, A139FF, A139FG, A139FH, A139FI, A139FJ, A139FK, A139FL, A139FM, A139FN, A139FO, A139FP, A139FQ, A139FR, A139FS, A139FT, A139FU, A139FV, A139FW, A139FX, A139FY, A139FZ, A139GA, A139GB, A139GC, A139GD, A139GE, A139GF, A139GG, A139GH, A139GI, A139GJ, A139GK, A139GL, A139GM, A139GN, A139GO, A139GP, A139GQ, A139GR, A139GS, A139GT, A139GU, A139GV, A139GW, A139GX, A139GY, A139GZ, A139HA, A139HB, A139HC, A139HD, A139HE, A139HF, A139HG, A139HH, A139HI, A139HJ, A139HK, A139HL, A139HM, A139HN, A139HO, A139HP, A139HQ, A139HR, A139HS, A139HT, A139HU, A139HV, A139HW, A139HX, A139HY, A139HZ, A139IA, A139IB, A139IC, A139ID, A139IE, A139IF, A139IG, A139IH, A139II, A139IJ, A139IK, A139IL, A139IM, A139IN, A139IO, A139IP, A139IQ, A139IR, A139IS, A139IT, A139IU, A139IV, A139IW, A139IX, A139IY, A139IZ, A139JA, A139JB, A139JC, A139JD, 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A139OA, A139OB, A139OC, A139OD, A139OE, A139OF, A139OG, A139OH, A139OI, A139OJ, A139OK, A139OL, A139OM, A139ON, A139OO, A139OP, A139OQ, A139OR, A139OS, A139OT, A139OU, A139OV, A139OW, A139OX, A139OY, A139OZ, A139PA, A139PB, A139PC, A139PD, A139PE, A139PF, A139PG, A139PH, A139PI, A139PJ, A139PK, A139PL, A139PM, A139PN, A139PO, A139PP, A139PQ, A139PR, A139PS, A139PT, A139PU, A139PV, A139PW, A139PX, A139PY, A139PZ, A139QA, A139QB, A139QC, A139QD, A139QE, A139QF, A139QG, A139QH, A139QI, A139QJ, A139QK, A139QL, A139QM, A139QN, A139QO, A139QP, A139QQ, A139QR, A139QS, A139QT, A139QU, A139QV, A139QW, A139QX, A139QY, A139QZ, A139RA, A139RB, A139RC, A139RD, A139RE, A139RF, A139RG, A139RH, A139RI, A139RJ, A139RK, A139RL, A139RM, A139RN, A139RO, A139RP, A139RQ, A139RR, A139RS, A139RT, A139RU, A139RV, A139RW, A139RX, A139RY, A139RZ, A139SA, A139SB, A139SC, A139SD, A139SE, A139SF, A139SG, A139SH, A139SI, A139SJ, A139SK, A139SL, A139SM, A139SN, A139SO, A139SP, A139SQ, A139SR, A139SS, A139ST, A139SU, 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NOTES:

1. Provide minimum four spacers per standard length 18' to 20' pipe supporting each side of joints uniformly spacing insulators along each pipe segment.
2. All work shall conform to requirements of the Cal-Trans Encroachment Permits Manual, and specific terms and conditions of the State and/or County issued encroachment permit.
3. Contractor shall obtain a project or annual permit for excavations for subject work in conformance with Cal-OSHA regulations. All pits shall be sheeted, shored and braced according to the Division of Industrial Safety, Construction Safety Orders, Article 6, Excavations, Sections 1539-1543.
4. Bore and reworking pits shall conform to Cal-Trans Encroachment Permits Manual, Chapter 600 and adequately shored to ensure against ground movement and to safeguard existing surface improvements and substructures. Pits shall not affect public or private facilities or create a hazard to traveling public; damage to State facilities shall be replaced in-kind or repaired to original condition.
5. All pits shall be fenced and Type-K barrier placed for protection adjacent to traffic and road. Type-K railing shall be placed at 20'1" later or as otherwise directed by District. Pits left open overnight shall have a 6-ft high fence with panel sections securely fastened together for pedestrian safety. Reflectors shall be secured to sides of fence that face traffic.
6. For State Highway crossings, subsurface monitoring points shall be installed and surveyed prior to starting work. Points shall be monitored regularly during bore and jack operations and CalTrans representative notified immediately of any ground movement or change in elevation.

Carrier Pipe Size	Casing Pipe Size	Wall Thickness*
4"	12"	1/4"
6"	14"	1/4"
8"	16"	1/4"
10"	18"	1/4"
12"	20"	1/4"
16"	30"	3/8"
20"	36"	3/8"
24"	42"	1/2"

* Thickness for casing pipes less than 150' in length.

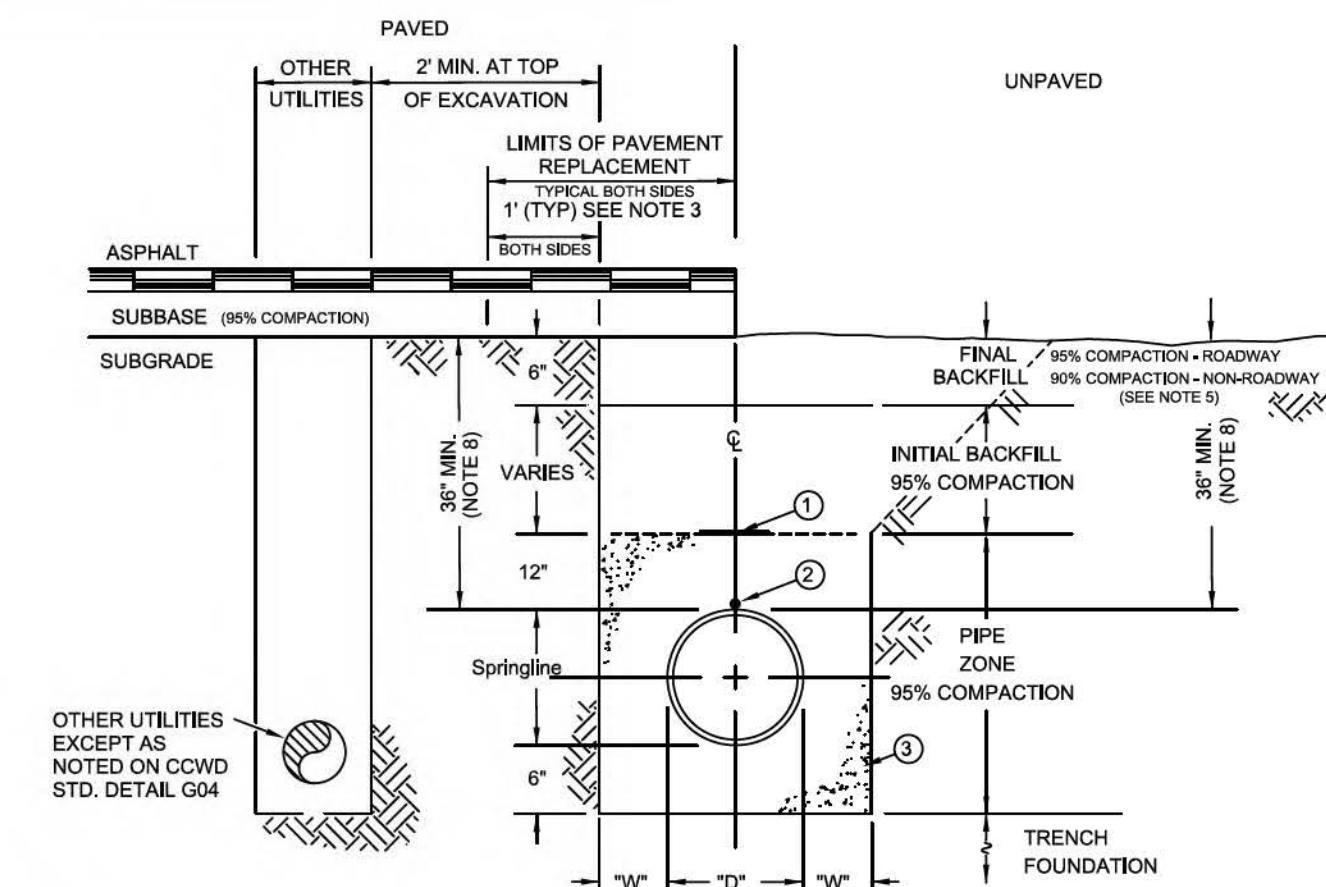
CALAVERAS COUNTY WATER DISTRICT GENERAL DETAILS CASING DETAIL

DRAWN BY: CCWD STAFF	SCALE: NONE	CCWD STANDARD DRAWING NO. G10
APPROVED BY: CHARLES PALMER	DATE: 09/2021	

GENERAL DETAILS - CASING-DETAILS

NO SCALE

5
-



NOTES:

1. FOR EXCAVATIONS THAT WORKERS ENTER/DESCEND, PERMITS SHALL BE REQUIRED FOR ALL EXCAVATIONS OVER 5 FEET IN DEPTH AND ANY EXCAVATIONS LESS THAN 5 FEET IN DEPTH IN SOILS THAT HAZARDOUS GROUND MOVEMENT MAY OCCUR.
2. PIPE TO BE LAID WITH LABEL UP ON EACH JOINT.
3. ROAD REPAIR SHALL CONFORM TO ROAD AGENCY PERMIT CONDITIONS AND SPECIFICATIONS. WIDTH OF REPAIR PER COUNTY OR CALTRANS REQUIREMENTS.
4. WHEN COUNTY PUBLIC WORKS OR CALTRANS ENCROACHMENT PERMIT CONDITIONS ARE MORE RESTRICTIVE, THEY WILL TAKE PRECEDENCE.
5. EXCEPT FOR TRENCHES CUT IN ROAD SUBGRADE SLOPES AND FILLS, TRENCH WALLS ARE TO BE VERTICAL AND REMAIN WITHIN DESIGNATED LIMITS. ROADWAY INCLUDING AREAS UNDER PAVING, AREAS WITHIN 5-FT OF EDGE OF PAVEMENT, AND ALL SLOPES AND FILLS WITHIN ROADBED'S STRUCTURAL SECTION/SUBGRADE SHALL BE BACKFILLED TO 95% RELATIVE COMPACTION.
6. TRACER WIRE TO BE INCLUDED ON ALL PIPELINES INCLUDING SERVICE LATERALS.
7. SEE DETAIL G05A FOR UNSTABLE CONDITIONS.
8. PRECEDENCE SHALL BE GIVEN TO DEPTH OF COVER SHOWN ON PLAN AND PROFILE SHEETS, AND NOT LESS THAN 36-INCHES MINIMUM COVER.

D	W (min.)	W (max.)
<10"	6"	9"
≥10"	9"	12"

ITEM #	DESCRIPTION
1	2" WIDE WARNING TAPE (COLOR - MARKING) BLUE - "WATER" GREEN - "SEWER"
2	TRACER WIRE
3	PIPE ZONE MATERIAL

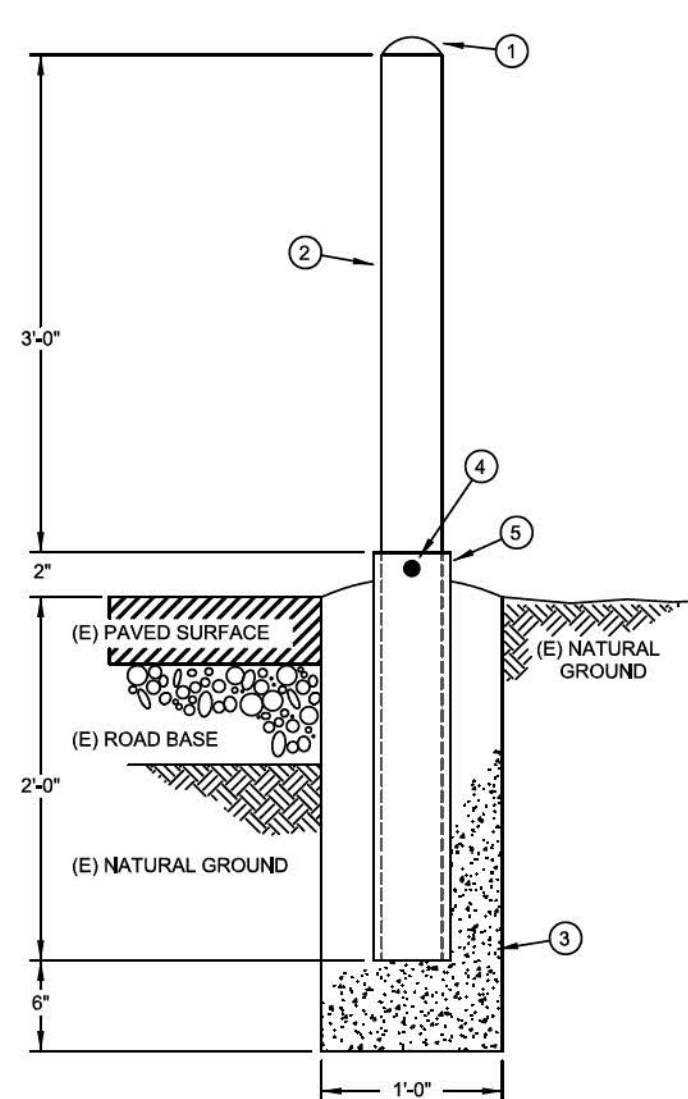
CALAVERAS COUNTY WATER DISTRICT GENERAL DETAILS TRENCH SECTION

DRAWN BY: CCWD STAFF	SCALE: NONE	CCWD STANDARD DRAWING NO. G05
APPROVED BY: CHARLES PALMER	DATE: 09/2021	

CALAVERAS COUNTY WATER DISTRICT GENERAL DETAILS - TRENCH SECTION

NO SCALE

3
-



REMOVABLE GUARD POST

ITEM #	DESCRIPTION
1	3" PVC END CAP
2	3" SCH 40 STEEL POST, PAINTED SAFETY YELLOW, FLAM END
3	CLASS 3 CONCRETE
4	1/2" BOLT THRU SLEEVE & POST
5	4" STEEL SLEEVE EXTENDING 2" ABOVE CONCRETE

NOTES:

1. EXPOSED PIPE TO BE PAINTED YELLOW WITH TWO COATS OF PRIMER.

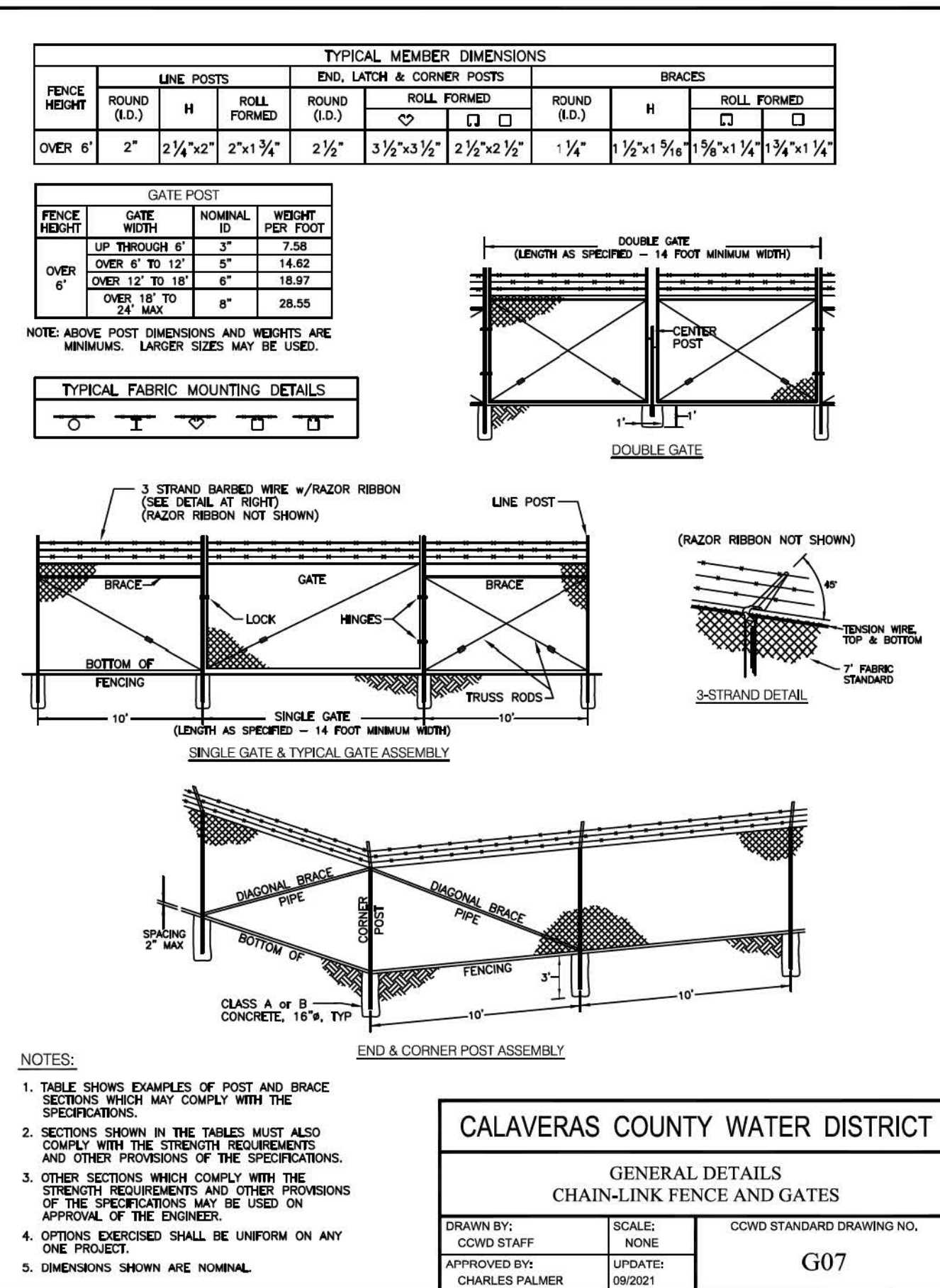
CALAVERAS COUNTY WATER DISTRICT GENERAL DETAILS REMOVABLE GUARD POST

DRAWN BY: CCWD STAFF	SCALE: NONE	CCWD STANDARD DRAWING NO. G12
APPROVED BY: CHARLES PALMER	DATE: 09/2021	

GENERAL DETAILS - REMOVABLE BOLLARD

NO SCALE

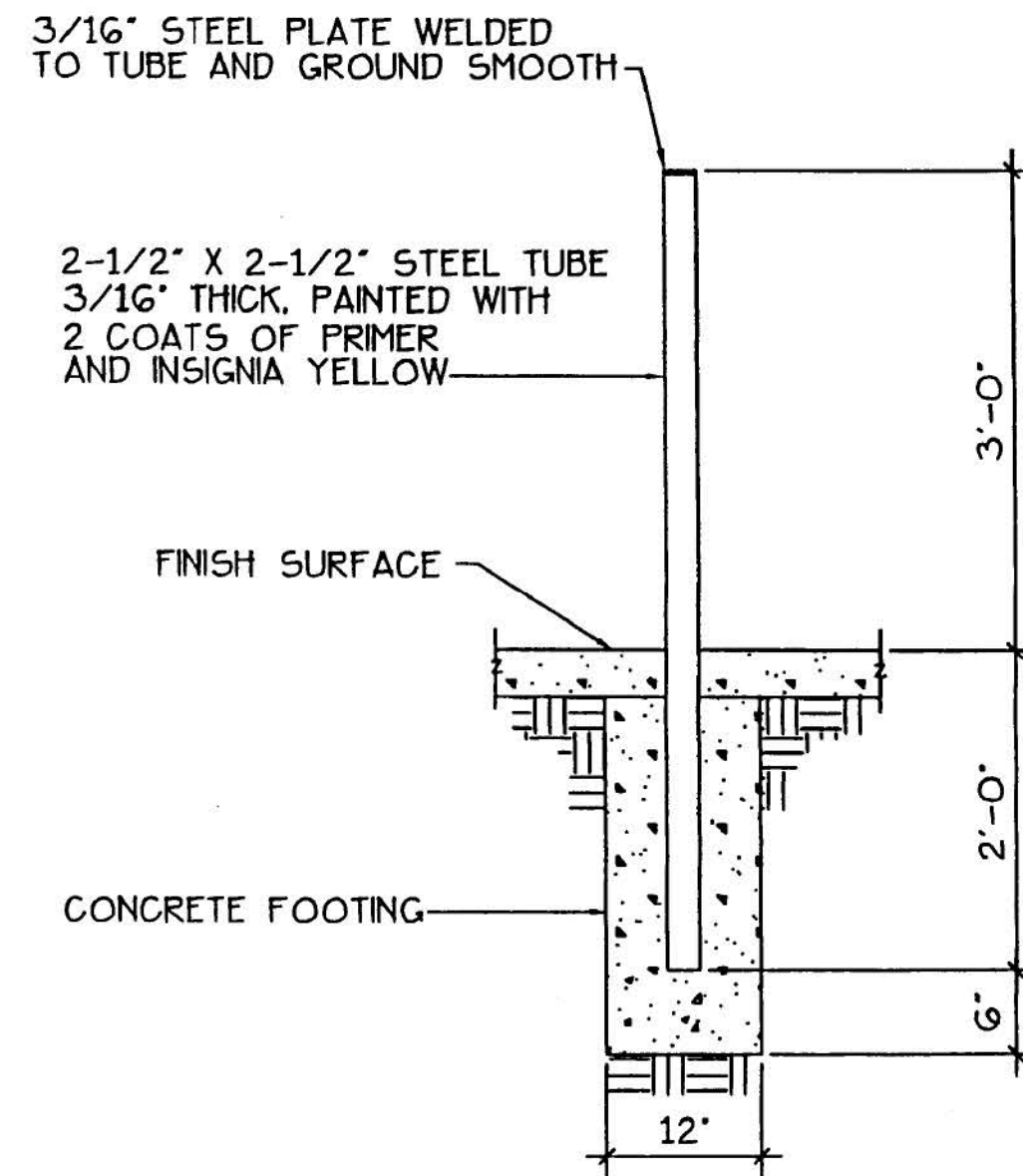
6
-



GENERAL DETAILS - CHAIN-LINK FENCE AND GATES

NO SCALE

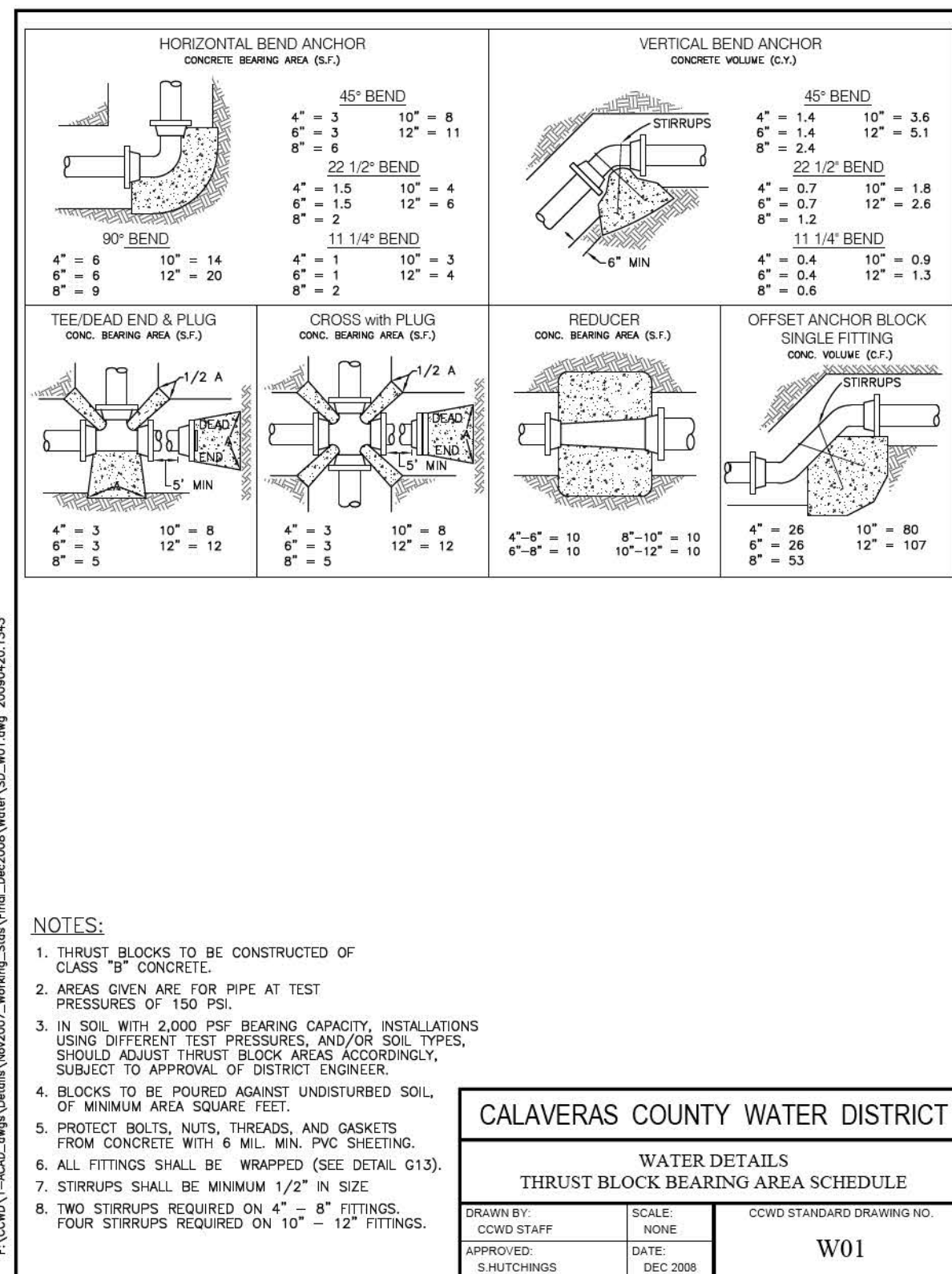
4
-



GENERAL DETAILS - FIXED BOLLARD

NO SCALE

7
-



NOTES:

1. THRUST BLOCKS TO BE CONSTRUCTED OF CLASS "B" CONCRETE.
2. AREAS GIVEN ARE FOR PIPE AT TEST PRESSURES OF 150 PSI.
3. IN SOIL WITH 2,000 PSF BEARING CAPACITY, INSTALLATIONS USING DIFFERENT TEST PRESSURES, AND/OR SOIL TYPES, SHOULD ADJUST THRUST BLOCK AREAS ACCORDINGLY, SUBJECT TO APPROVAL OF DISTRICT ENGINEER.
4. BLOCKS TO BE POURED AGAINST UNDISTURBED SOIL OF MINIMUM AREA SQUARE FEET.
5. PROTECT BOLTS, NUTS, THREADS, AND GASKETS FROM CONCRETE WITH 6 MIL. MIN. PVC SHEETING.
6. ALL FITTINGS SHALL BE WRAPPED (SEE DETAIL G13).
7. STIRRUPS SHALL BE MINIMUM 1/2" IN SIZE.
8. TWO STIRRUPS REQUIRED ON 4" - 8" FITTINGS. FOUR STIRRUPS REQUIRED ON 10" - 12" FITTINGS.

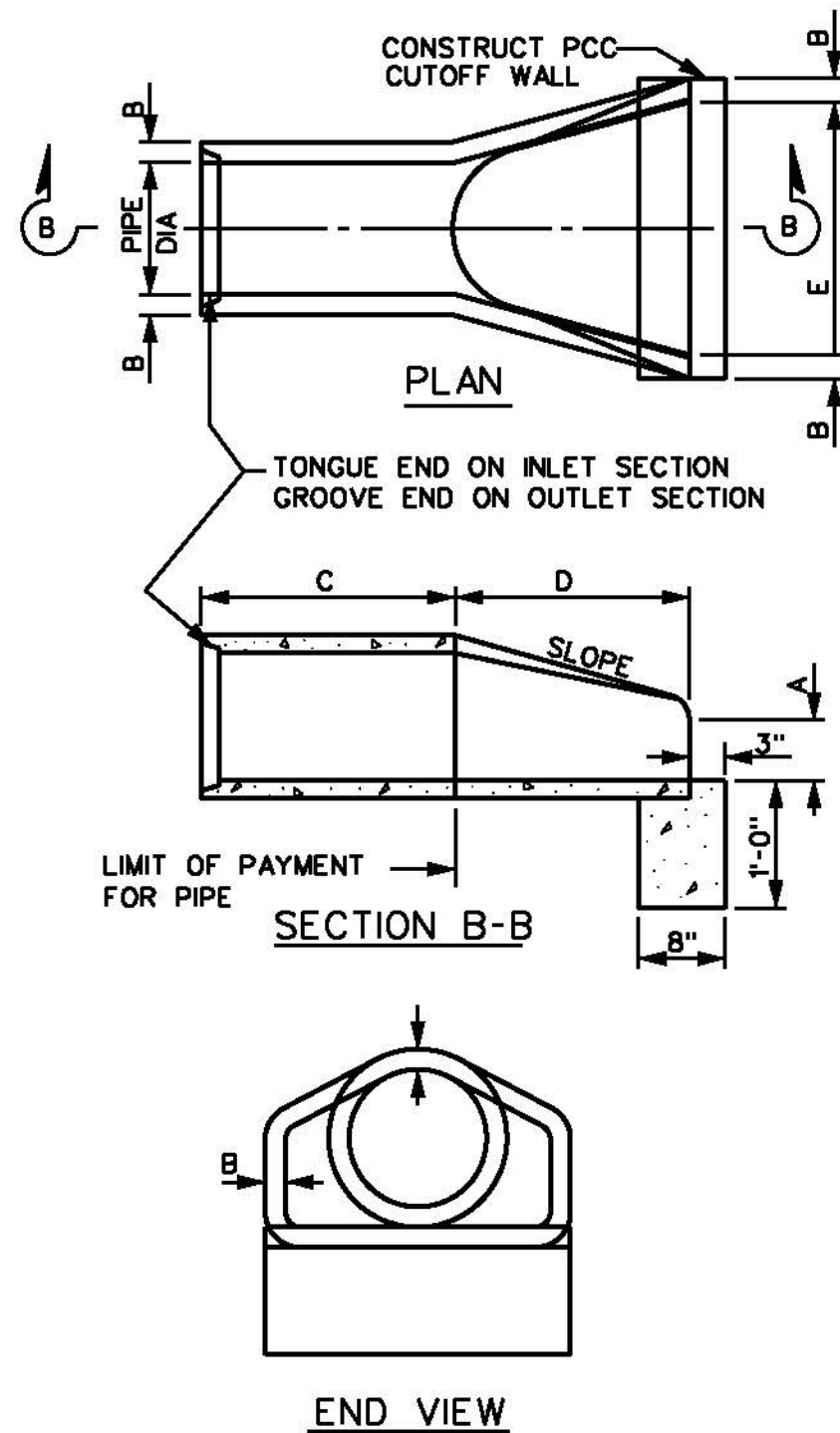
CALAVERAS COUNTY WATER DISTRICT WATER DETAILS THRUST BLOCK BEARING AREA SCHEDULE

DRAWN BY: CCWD STAFF	SCALE: NONE	CCWD STANDARD DRAWING NO. W01
APPROVED BY: CHARLES PALMER	DATE: 09/2021	

GENERAL DETAILS - THRUST BLOCKS

NO SCALE

9
-



PIPE DIA	A	B	C	D	E	SLOPE
12"	4"	1 1/2"	SEE NOTE 1	1'-10"	2'-0"	2:1 OR FLATTER
18"	9"	3 1/4"		2'-1"	3'-0"	

NOTES:

1. "C" DIMENSION VARIES BY MANUFACTURER

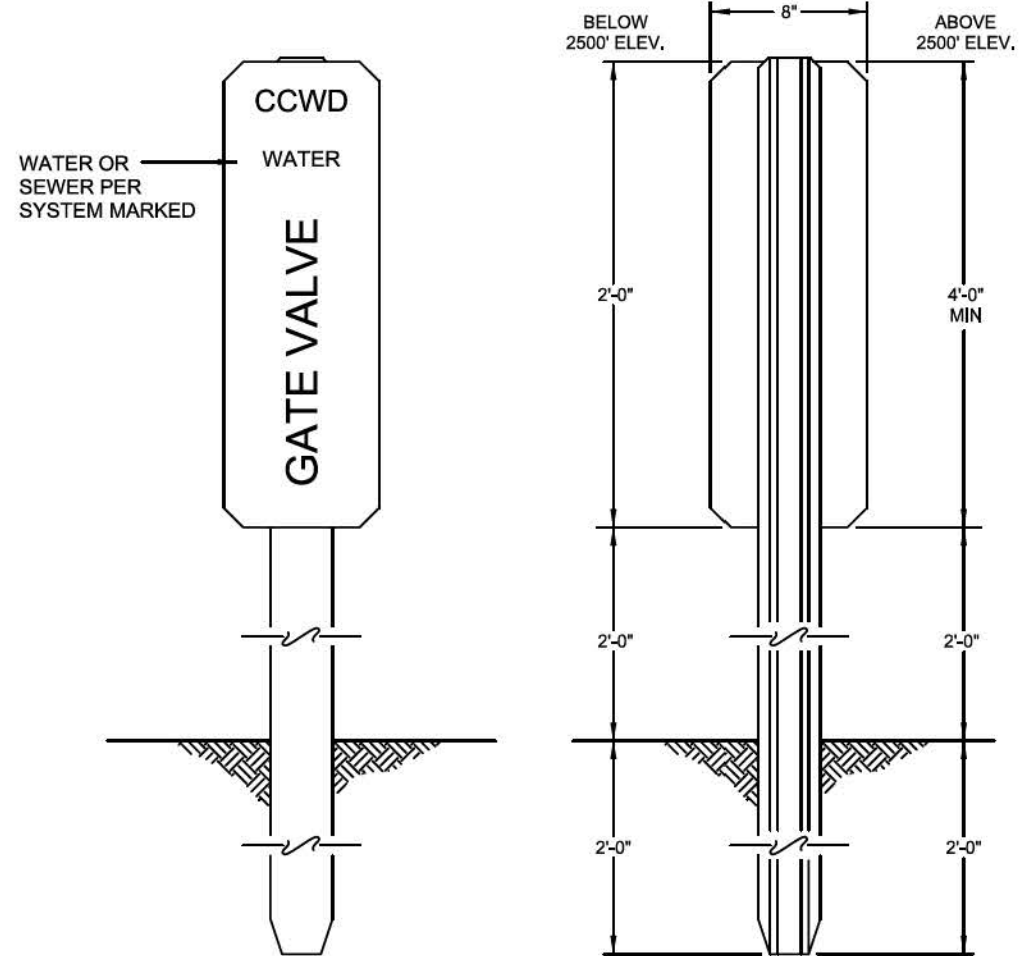
FLARED END SECTION

NO SCALE

8
-

NO.	REVISIONS DESCRIPTION	DATE	BY
100% RELEASE			
RELEASE 4		DATE: JULY 2023	
SCALE:		JOB NO. 1337-01	
IMPROVEMENT PLANS FOR CONSTRUCTION OF JENNIFER L. ELEMENTARY SCHOOL WASTEWATER TREATMENT PLANT UPGRADE PROJECT CALAVERAS UNIFIED SCHOOL DISTRICT CALAVERAS COUNTY			
DETAILS 1			
SHEET 50 OF 102			

FILE: S:\1537-01.dwg User: S:\1537-01.dwg Date: 02/14/23 2:40p
SHEET: 51 OF 102
C:\Users\charles.palmer\AppData\Local\Temp\AutoCAD\2023\1537-01.dwg



PADDLE MARKER PLACEMENT	
SEWER	WATER
GATE VALVE	GATE VALVE
AIR RELIEF VALVE	AIR RELIEF VALVE
MANHOLES	FIRE HYDRANT

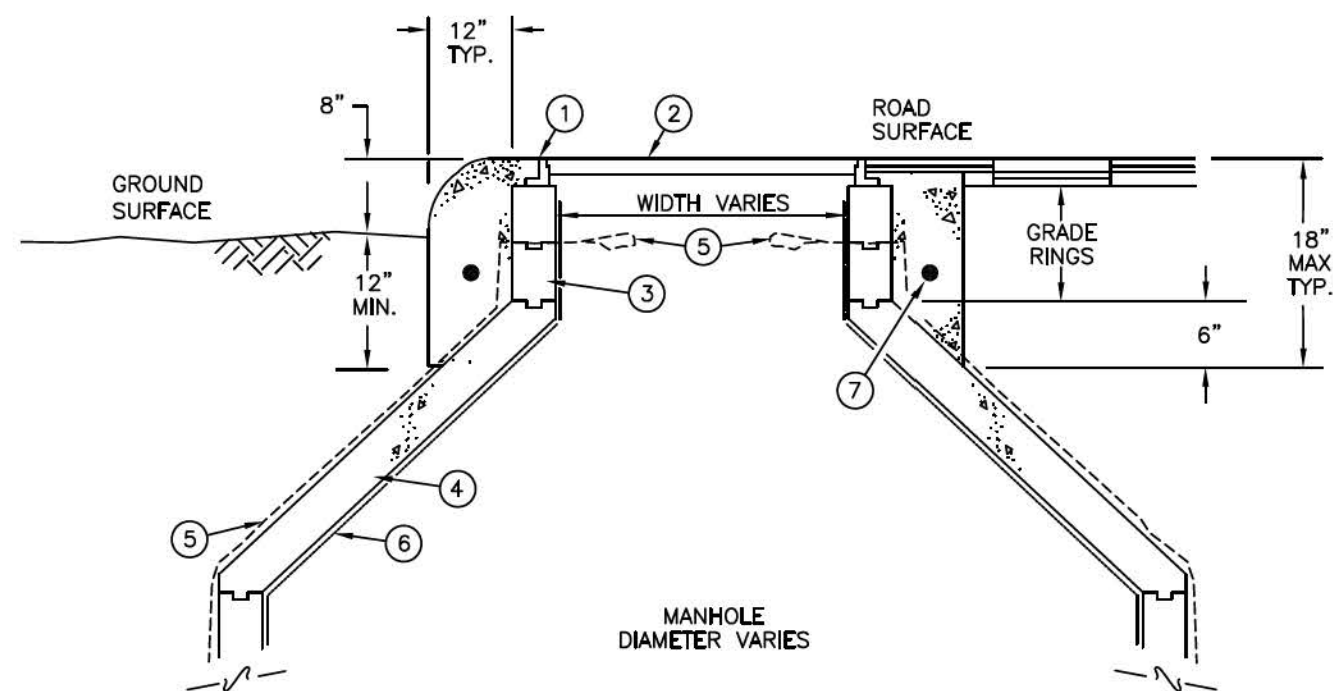
- NOTES:
1. THE MARKER SHALL BE FLAT WHITE STEEL PLATE WITH BLUE LETTERING FOR WATER AND GREEN LETTERING FOR SEWER AS NOTED ABOVE.
 2. SEE CALTRANS STANDARD MARKER TYPE L-1 PER CALTRANS STANDARD PLANS.
 3. PADDLE MARKER SHALL FACE TOWARDS APPURTENANCE.
 4. ABOVE 2500' ELEVATION MARKERS SHOULD BE USED WITH SNOV POLES.
 5. PLACE SIGN OUTSIDE OF PAVED AREAS NO MORE THAN 36" FROM CCWD APPURTENANCE BEING MARKED.
 6. MARKERS TO BE PLACED WHERE NOTED IN TABLE ABOVE UNLESS OTHERWISE INDICATED ON CONSTRUCTION PLANS.

CALAVERAS COUNTY WATER DISTRICT		
GENERAL DETAILS PADDLE MARKER		
DRAWN BY: CCWD STAFF	SCALE: NONE	CCWD STANDARD DRAWING NO. G12A
APPROVED BY: CHARLES PALMER	DATE: 09/2021	

GENERAL DETAILS PADDLE MARKER

NO SCALE

1
-



ITEM #	DESCRIPTION
1	CLASS A CONCRETE COLLAR, EXTEND 6" BELOW GRADE RING
2	FRAME & COVER, MARKED "SEWER" NOTE 3
3	GRADE RINGS, 12" TOTAL
4	CONCENTRIC CONE
5	TRACER WIRE SEE NOTE 1 THIS SHEET
6	LINING, AS DIRECTED
7	#4 REBAR RING

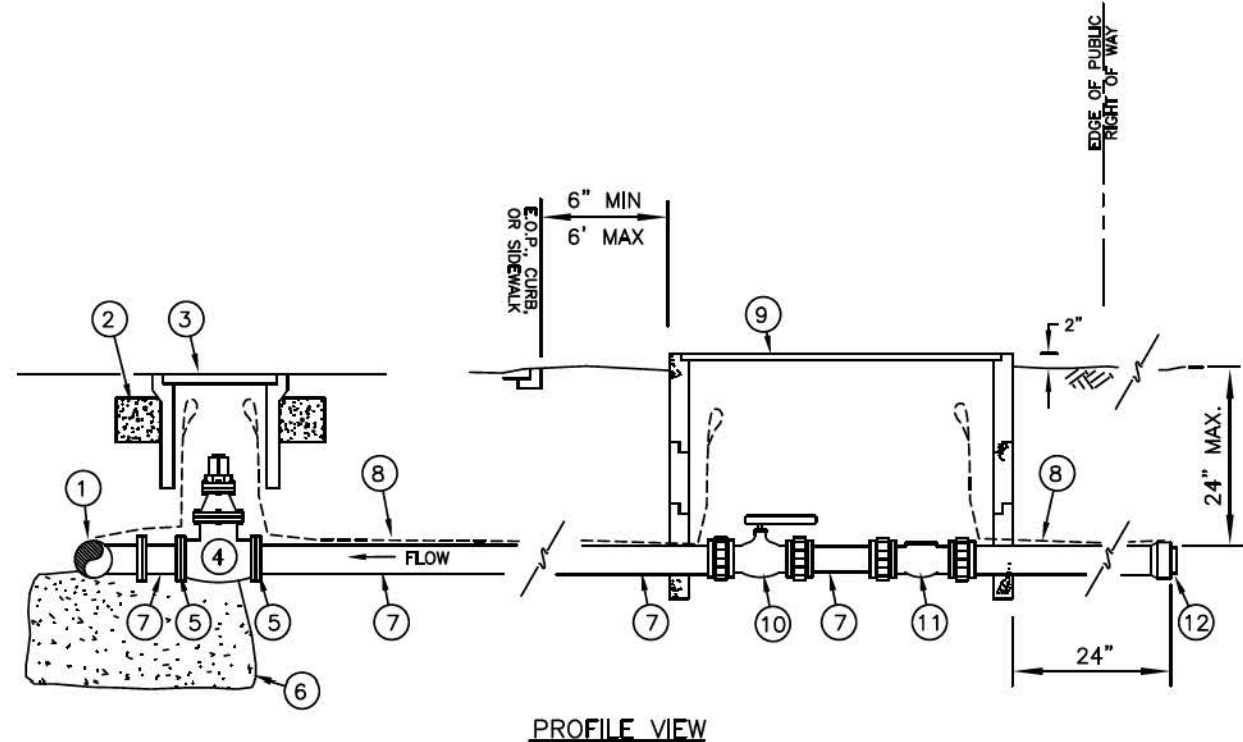
- NOTES:
1. TRACER WIRE FOR EACH INFLOW/OUTFLOW PIPE TO BE TERMINATED BY GOING UP OUTSIDE OF MANHOLE TO LAST RING JOINT LEAVING 12" MINIMUM LEAD INSIDE.
 2. AT AREAS ABOVE 2500 FEET ELEVATION, ALL CASTING OR CONCRETE COLLARS IN ROADWAY DEPRESSED 1/4 INCH FOR SNOWPLOWING.
 3. COVER SHALL HAVE CONCEALED PICK HOLE AND GASKET BOLTED TO FRAME

CALAVERAS COUNTY WATER DISTRICT		
MANHOLE CONE SECTION		
DRAWN BY: CCWD STAFF	SCALE: NONE	CCWD STANDARD DRAWING NO. S02B
APPROVED BY: CHARLES PALMER	DATE: FEB 2022	

MANHOLE CONE SECTION

NO SCALE

5
-



ITEM #	DESCRIPTION
1	2" TEE SOCKET - NEW MAIN
2	4"x4" CONCRETE RING AROUND BOX W/ #4 REBAR REINFORCEMENT
3	UTILITY BOX W/ LID MARKED "SEWER"
4	2" RESILIENT SEAT GATE VALVE, FLX/L INSTALLED PER W03
5	2" FLANGE SOCKET
6	THRUST BLOCK, PER W01 (USE 4")
7	2" PIPE, SCH 80

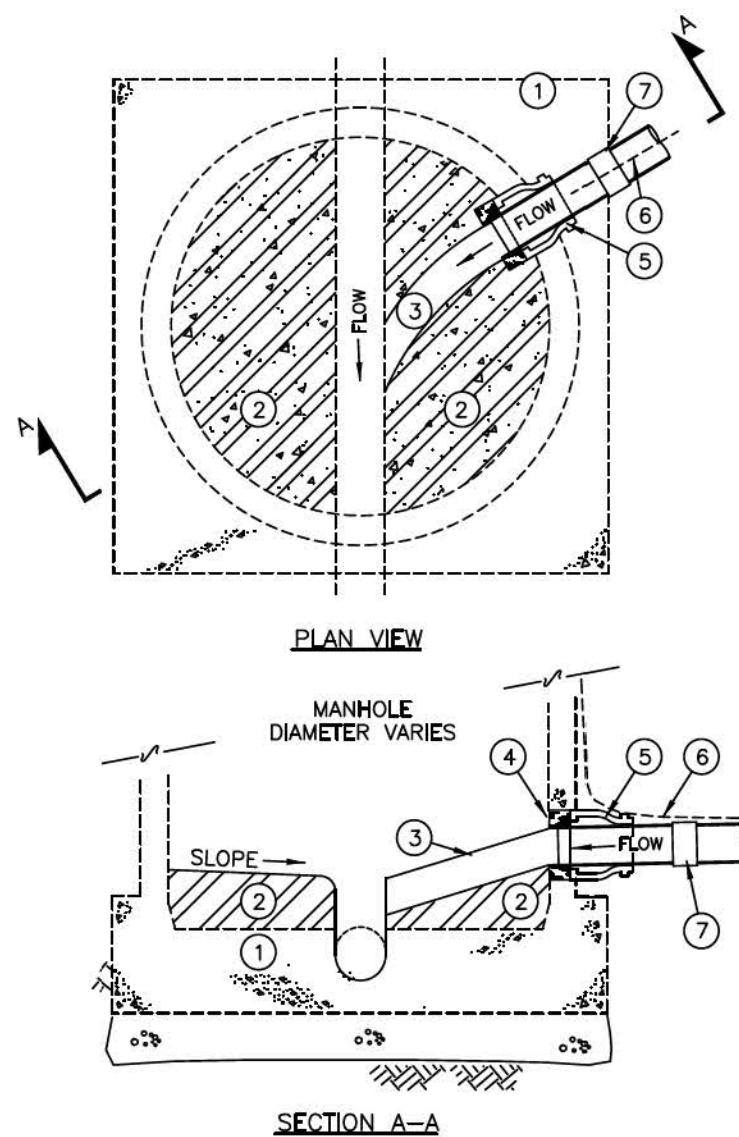
ITEM #	DESCRIPTION
8	TRACER WIRE
9	UTILITY BOX W/ LID MARKED "SEWER"
10	2" PVC BALL VALVE W/ UNION
11	TRUE UNION SWING CHECK VALVE, PVC
12	GLUED CAP

CALAVERAS COUNTY WATER DISTRICT		
SEWER DETAILS PRESSURE SEWER SERVICE CONNECTION		
DRAWN BY: CCWD STAFF	SCALE: NONE	CCWD STANDARD DRAWING NO. S01A
APPROVED BY: CHARLES PALMER	DATE: FEB 2022	

SEWER DETAILS PRESSURE SEWER SERVICE CONNECTION

NO SCALE

2
-



ITEM #	DESCRIPTION
1	EXISTING MANHOLE BASE
2	NEW CLASS A CONCRETE BENCH
3	FORMED CHANNEL

ITEM #	DESCRIPTION
4	FILL VOID WITH MORTAR SEAL
5	PIPE-TO-MANHOLE CONNECTOR
6	TRACER WIRE
7	PVC COUPLING

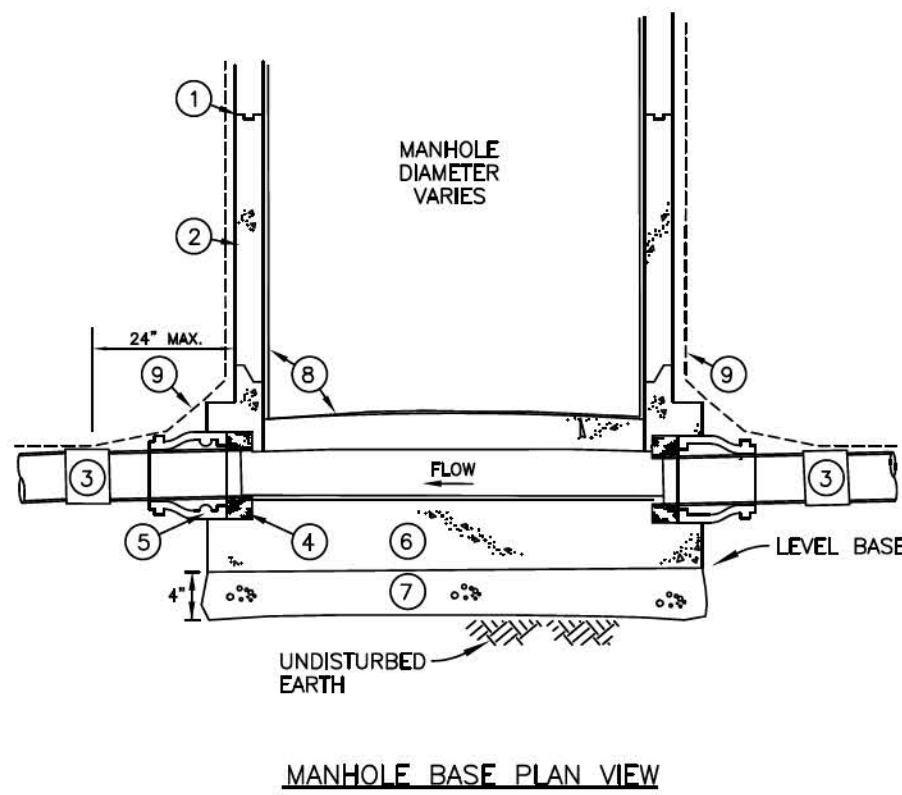
- NOTES:
1. CORE DRILL ALL OPENINGS TO THE PIPE CONNECTOR MANUFACTURERS SPECIFICATIONS.
 2. POUR NEW BENCH TO TOP OF NEW PIPE

CALAVERAS COUNTY WATER DISTRICT		
MANHOLE BREAK-IN CONNECTION		
DRAWN BY: CCWD STAFF	SCALE: NONE	CCWD STANDARD DRAWING NO. S02C
APPROVED BY: CHARLES PALMER	DATE: FEB 2022	

MANHOLE BREAK-IN CONNECTION

NO SCALE

6
-



ITEM #	DESCRIPTION
1	JOINT GASKET
2	BARREL SECTION
3	PVC COUPLING, SDR 26
4	MORTAR SEAL

ITEM #	DESCRIPTION
5	PIPE-TO-MANHOLE CONNECTING BOOT
6	MANHOLE BASE, PRECAST
7	3/4" DRAIN ROCK
8	LINING, AS DIRECTED
9	TRACER WIRE

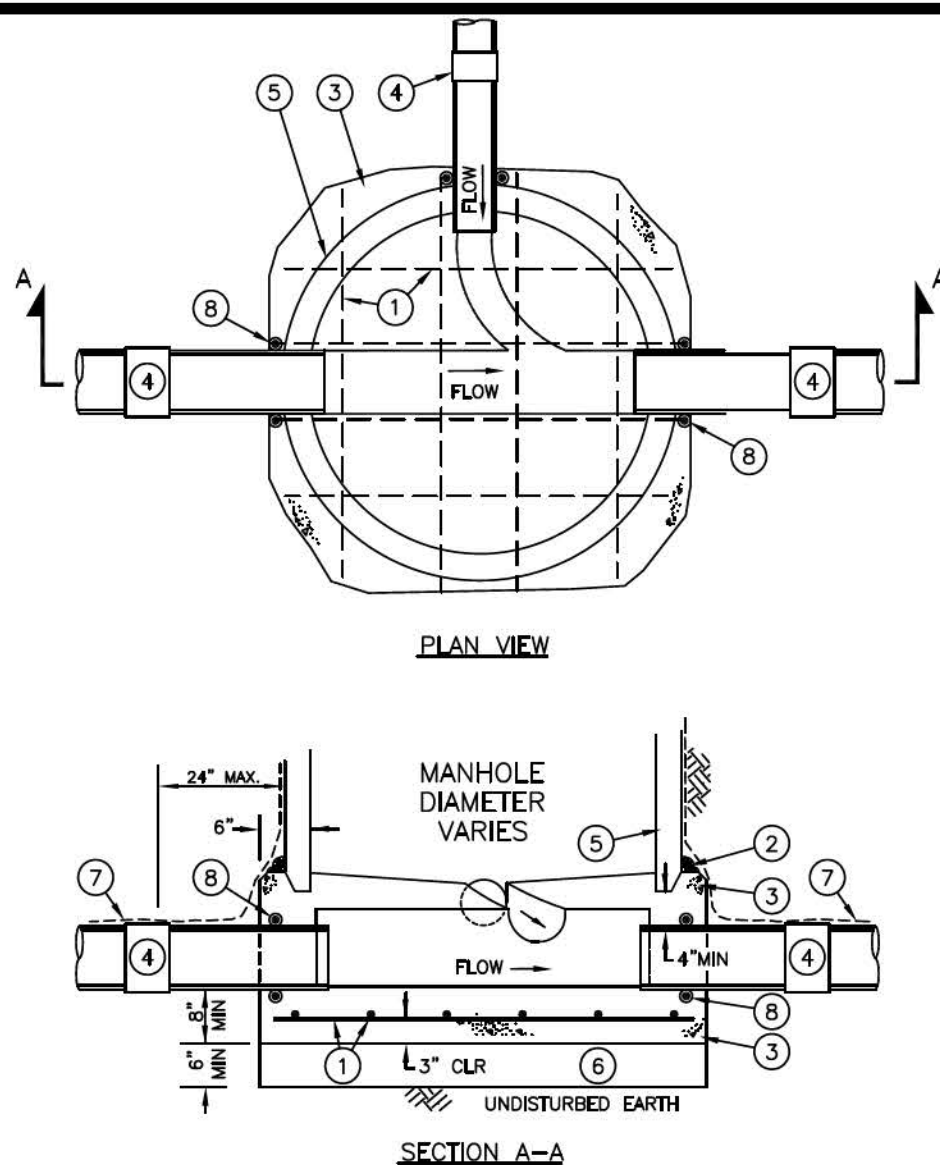
- NOTES:
1. GROUT ALL JOINTS, INTERIOR AND EXTERIOR WITH MORTAR SEAL.
 2. LINING IS REQUIRED WHEN FORCE MAINS TERMINATE AT MANHOLES, AT ALL DROP MANHOLES, AND AS SHOWN ON THE PLANS.
 3. FOR SEWERS 10" IN DIAMETER OR LARGER, SPECIAL CHANNEL CONSTRUCTION IS REQUIRED, PER S02D.
 4. ALL 90° BASES SHALL HAVE A CAMERA CHANNEL.

CALAVERAS COUNTY WATER DISTRICT		
PRECAST MANHOLE BASE		
DRAWN BY: CCWD STAFF	SCALE: NONE	CCWD STANDARD DRAWING NO. S02
APPROVED BY: CHARLES PALMER	DATE: FEB 2022	

PRECAST MANHOLE BASE

NO SCALE

3
-



ITEM #	DESCRIPTION
1	#4 REBAR @ 12" GRID
2	MORTAR SEAL
3	CLASS A CONCRETE
4	PVC COUPLING

ITEM #	DESCRIPTION
5	BARREL SECTION
6	CLEAN DRAIN ROCK
7	TRACER WIRE
8	RUBBER O-RING

- NOTES:
1. SLOPE SHELVES 1" PER 1'
 2. FORM RECESS IN BASE WITH FORMING RING TO PLACE BARREL SECTION. INSTALL PLASTIC SEALING GASKET IN JOINT PER MANUFACTURERS SPECIFICATIONS.

CALAVERAS COUNTY WATER DISTRICT		
MANHOLE POURED-IN-PLACE BASE		
DRAWN BY: CCWD STAFF	SCALE: NONE	CCWD STANDARD DRAWING NO. S02A
APPROVED BY: CHARLES PALMER	DATE: FEB 2022	

MANHOLE POURED-IN-PLACE BASE

NO SCALE

4
-

IMPROVEMENT PLANS FOR CONSTRUCTION OF
JENNYLIND ELEMENTARY SCHOOL
WASTEWATER TREATMENT PLANT UPGRADE PROJECT
CALAVERAS UNIFIED SCHOOL DISTRICT
CALAVERAS COUNTY

CONSULTING
KASL
ENGINEERS
7777 Greenback Lane
Suite 104
Climax Heights, CA 95910
Tel: (916) 722-1800
Fax: (916) 722-4996
CIVIL - WATER RESOURCES - SURVEYING

SHEET 51 OF 102

100% RELEASE

DETAILS 2

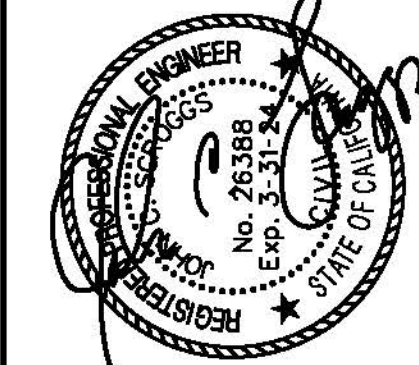
REVISIONS

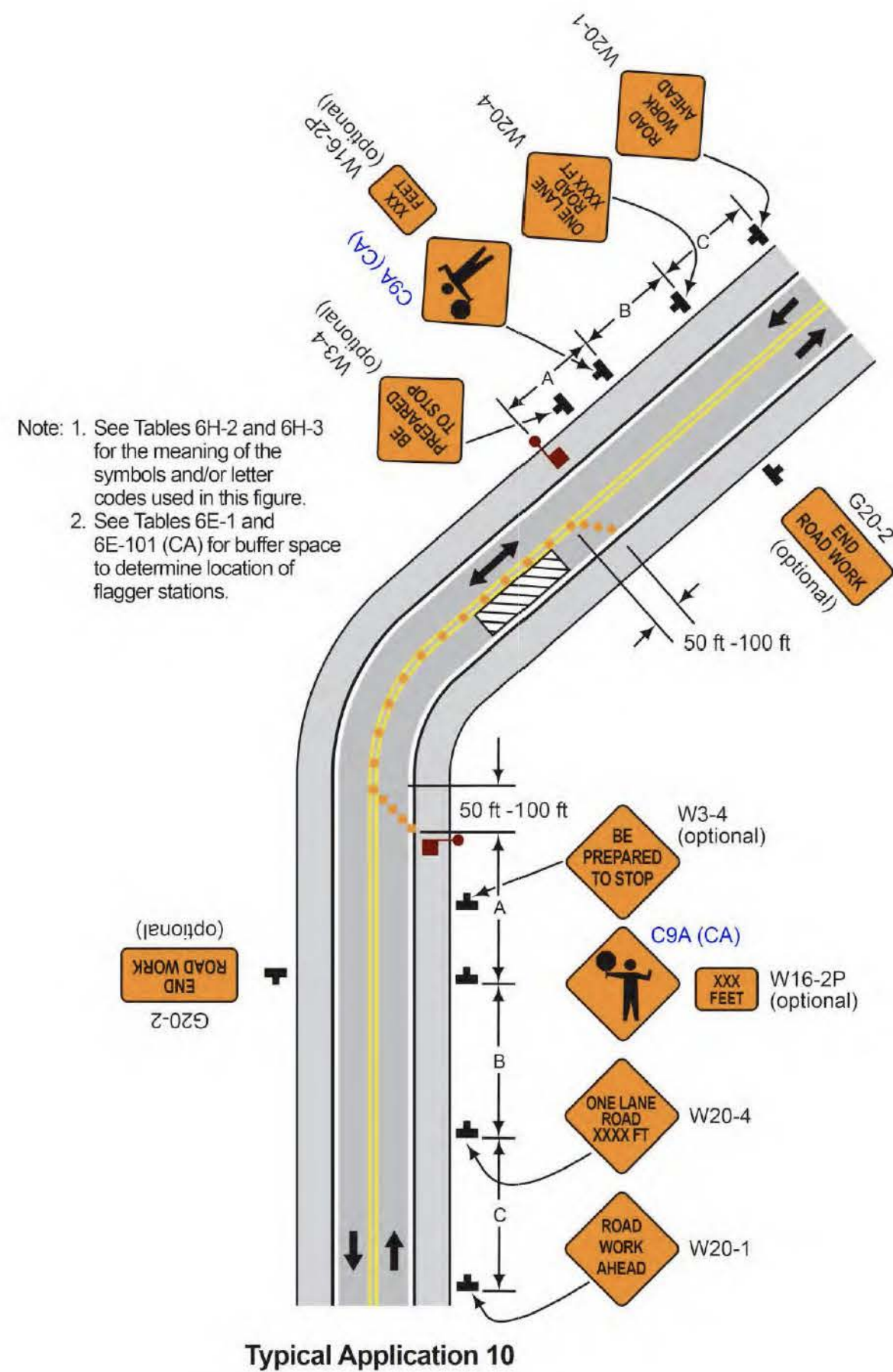
NO. DESCRIPTION DATE BY

RELEASE 4

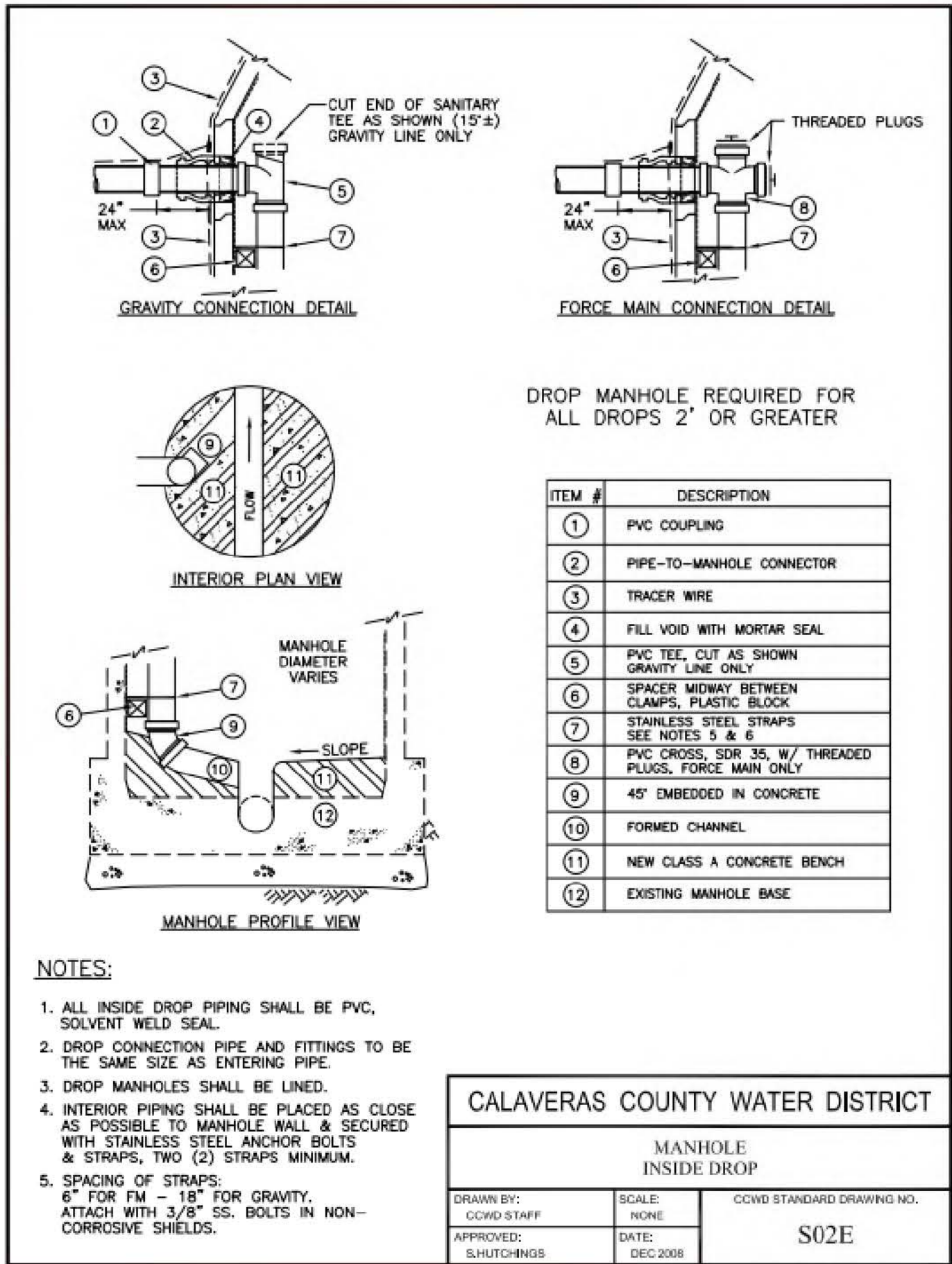
SCALE: 1337-01

DATE: JULY 2023

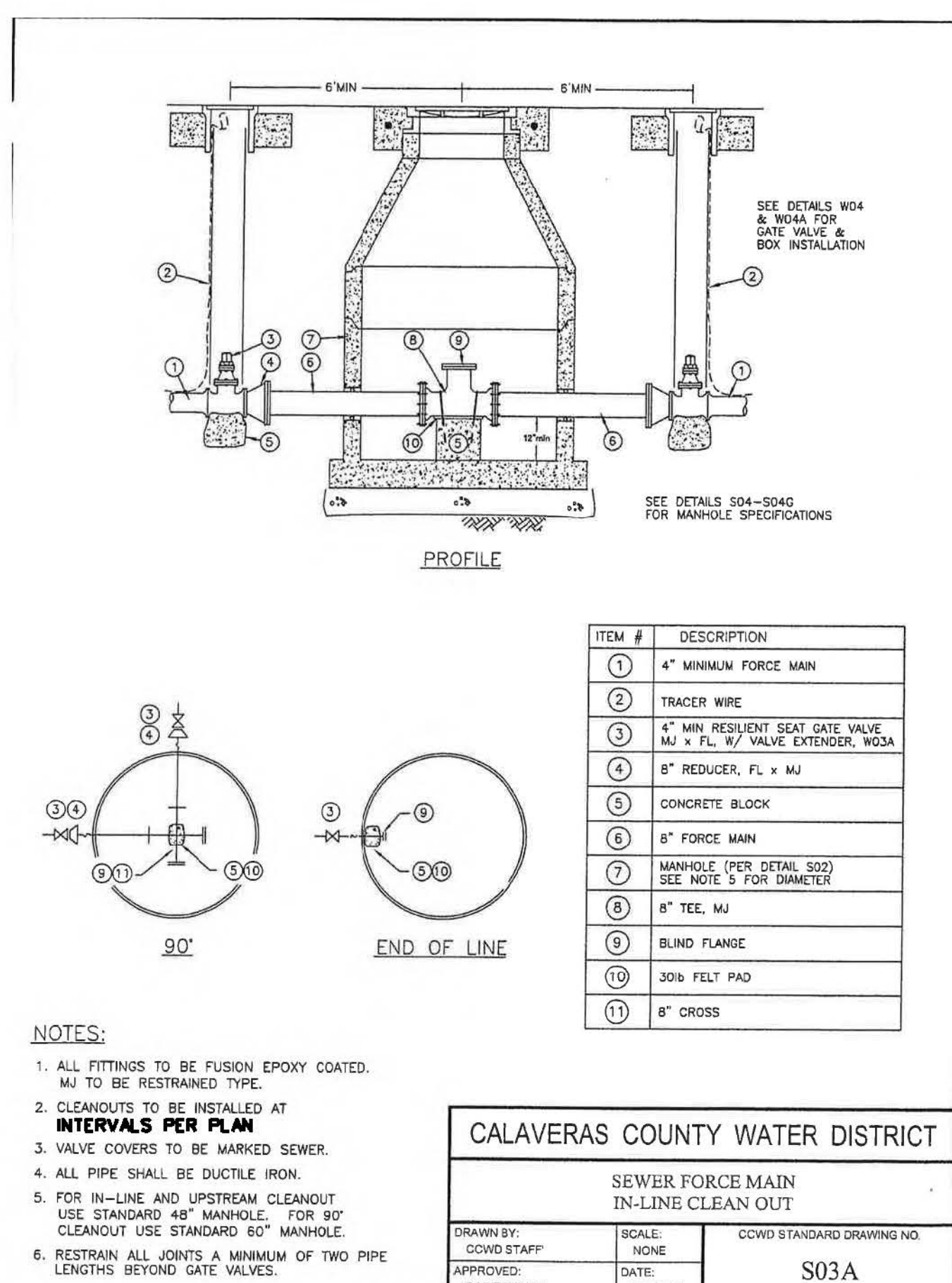




CAL MUTCD FIG 6H-10
LANE CLOSURE ON TWO-LANE RD USING FLAGGERS **4**
NO SCALE

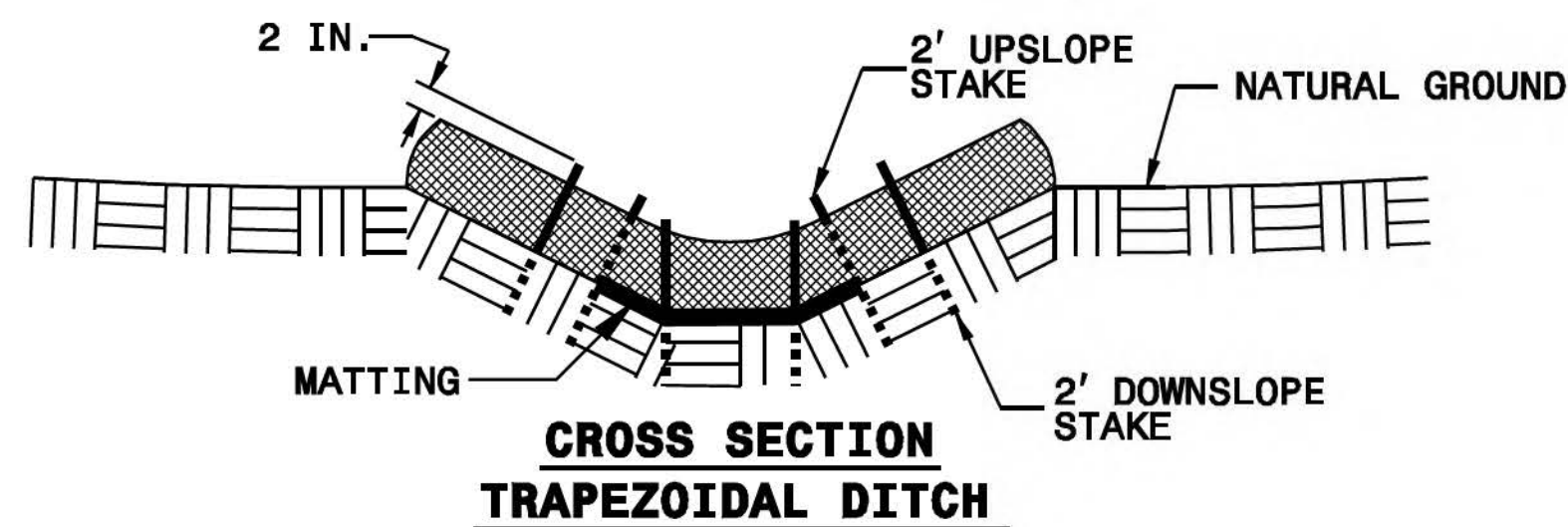
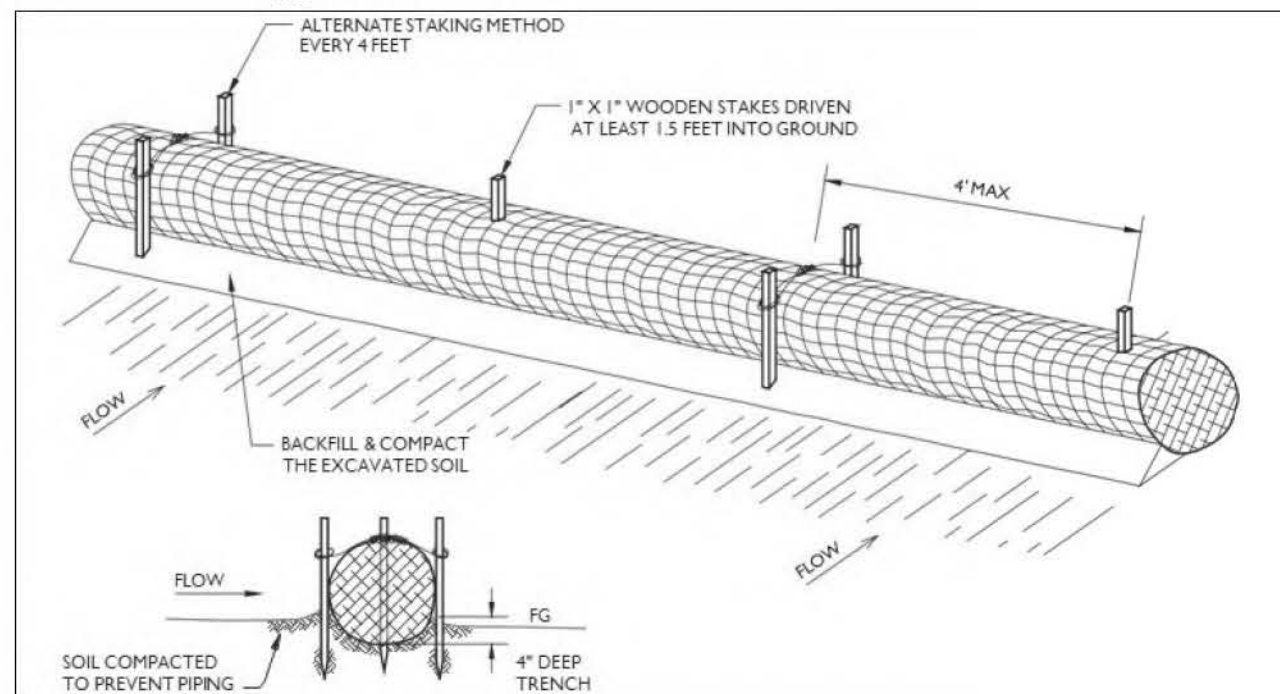


MANHOLE INSIDE DROP **3**
NO SCALE

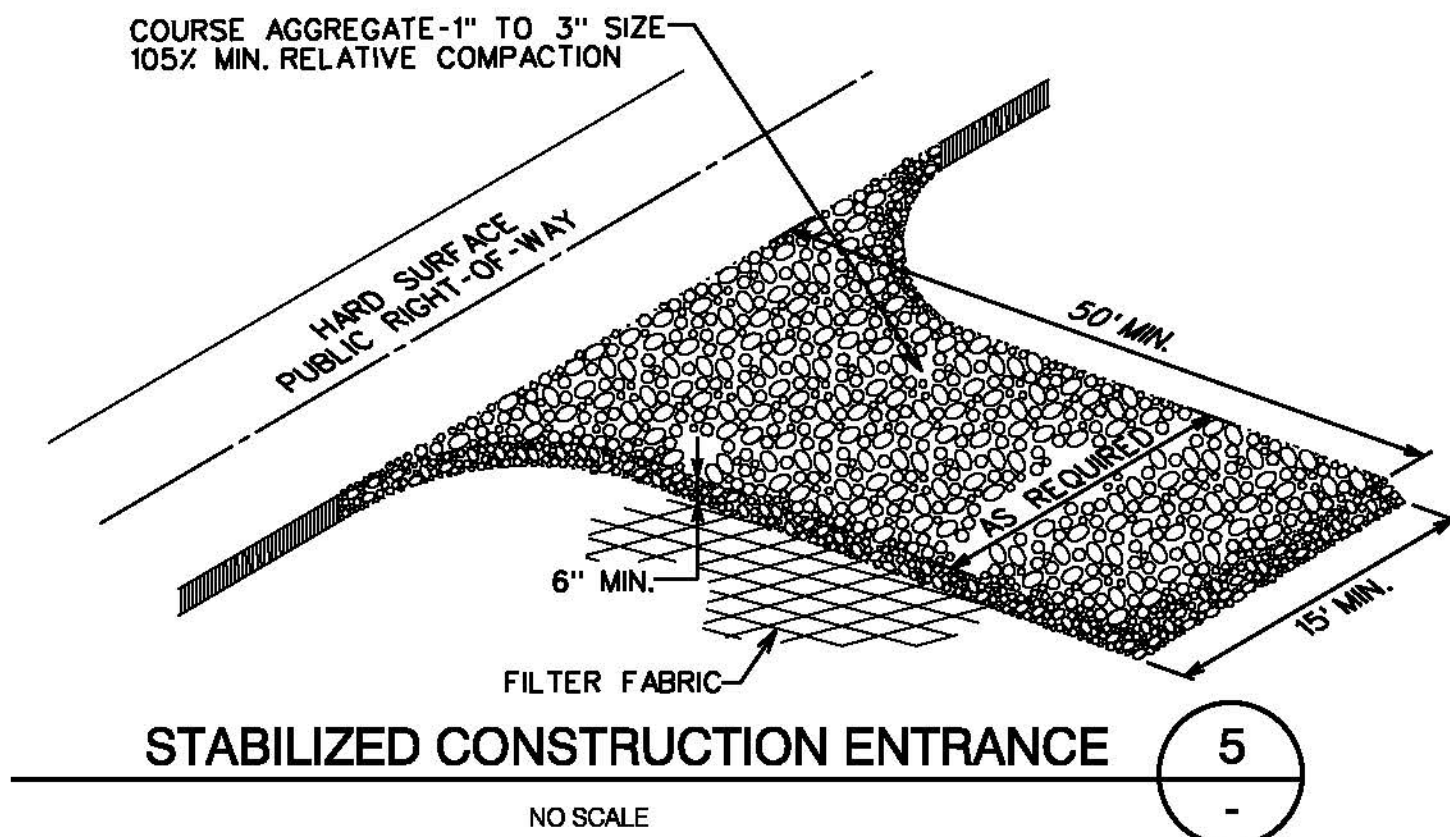


SEWER FORCE MAIN IN-LINE CLEAN OUT **1**
NO SCALE

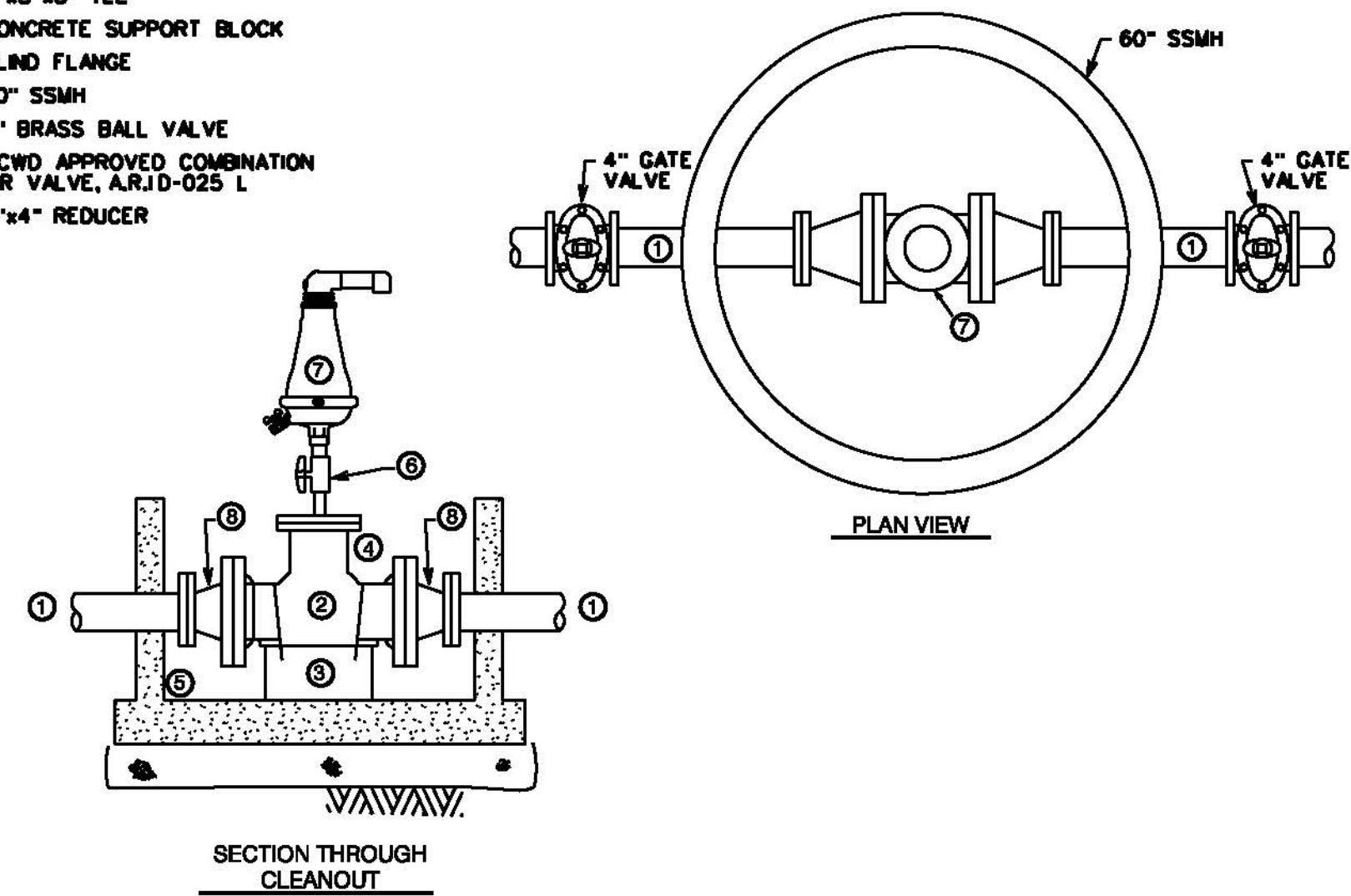
NOTES:
USE MINIMUM 12 IN. DIAMETER COIR FIBER (COCONUT FIBER) WATTLE.
USE 2 FT. WOODEN STAKES WITH A 2 IN. BY 2 IN. NOMINAL CROSS SECTION.
ONLY INSTALL WATTLE(S) TO A HEIGHT IN DITCH SO FLOW WILL NOT WASH AROUND WATTLE AND SCOUR DITCH SLOPES AND AS DIRECTED.
INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT AN ANGLE TO WEDGE WATTLE TO BOTTOM OF DITCH.
PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12" IN LENGTH.
INSTALL STAPLES APPROXIMATELY EVERY 1 LINEAR FOOT ON BOTH SIDES OF WATTLE AND AT EACH END TO SECURE IT TO THE SOIL.
INSTALL MATTING IN ACCORDANCE WITH SECTION 1631 OF THE STANDARD SPECIFICATIONS.



FIBER WATTLE **6**
NO SCALE



BUBBLE NOTES:
① 4" FORCE MAIN
② 8"x8"x8" TEE
③ CONCRETE SUPPORT BLOCK
④ BLIND FLANGE
⑤ 60" SSMH
⑥ 2" BRASS BALL VALVE
⑦ CCWD APPROVED COMBINATION AIR VALVE, A.R.J.D-025 L
⑧ 8"x4" REDUCER



CLEANOUT & ARV COMBINATION **2**
NO SCALE

100% RELEASE

REVISIONS

NO.	DESCRIPTION	DATE	BY

RELEASE 4
DATE: JULY 2023

SCALE: 1337-01
JOB NO. 1337-01

DETAILS 3

IMPROVEMENT PLANS FOR CONSTRUCTION OF JENNYLIND ELEMENTARY SCHOOL WASTEWATER TREATMENT PLANT UPGRADE PROJECT CALAVERAS UNIFIED SCHOOL DISTRICT CALAVERAS COUNTY

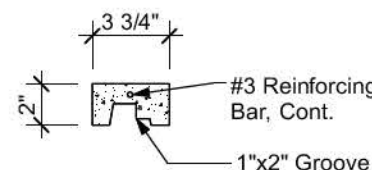
KASL ENGINEERS
7777 Greenback Lane
Suite 104
Climax Heights, CA 95910
Tel: (916) 722-1800
Fax: (916) 722-4996
CIVIL - WATER RESOURCES - SURVEYING

SHEET 52 OF 102

POST TYPE	POST * REINF.	PIER DIAM.	PIER DEPTH **	PIER REINF.
CORNER/END POST	(2) #4	18"	3'-0"	--
LINE POST	(4) #4	18"	3'-9"	--

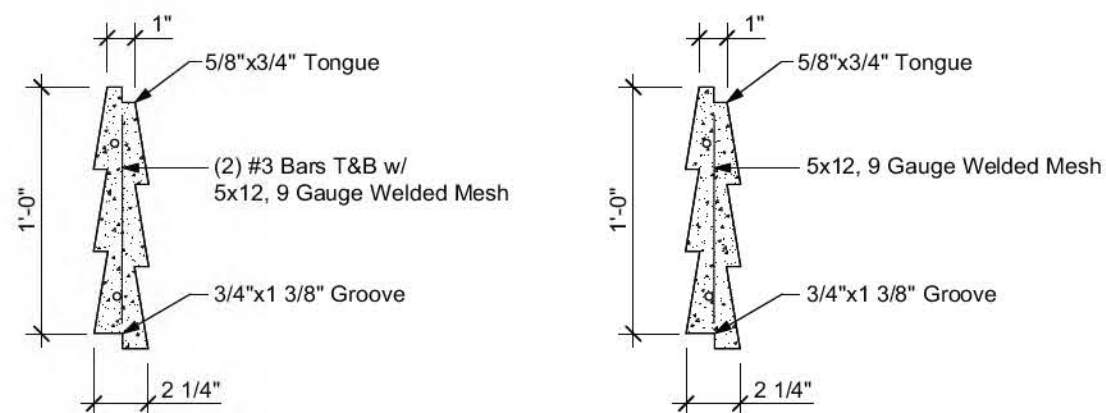
POST TYPE	POST * REINF.	PIER DIAM.	PIER DEPTH **	PIER REINF.
CORNER/END POST	(4) #4	18"	4'-0"	(6) #5
LINE POST	(4) #5	18"	4'-9"	(6) #5

CORNER POST

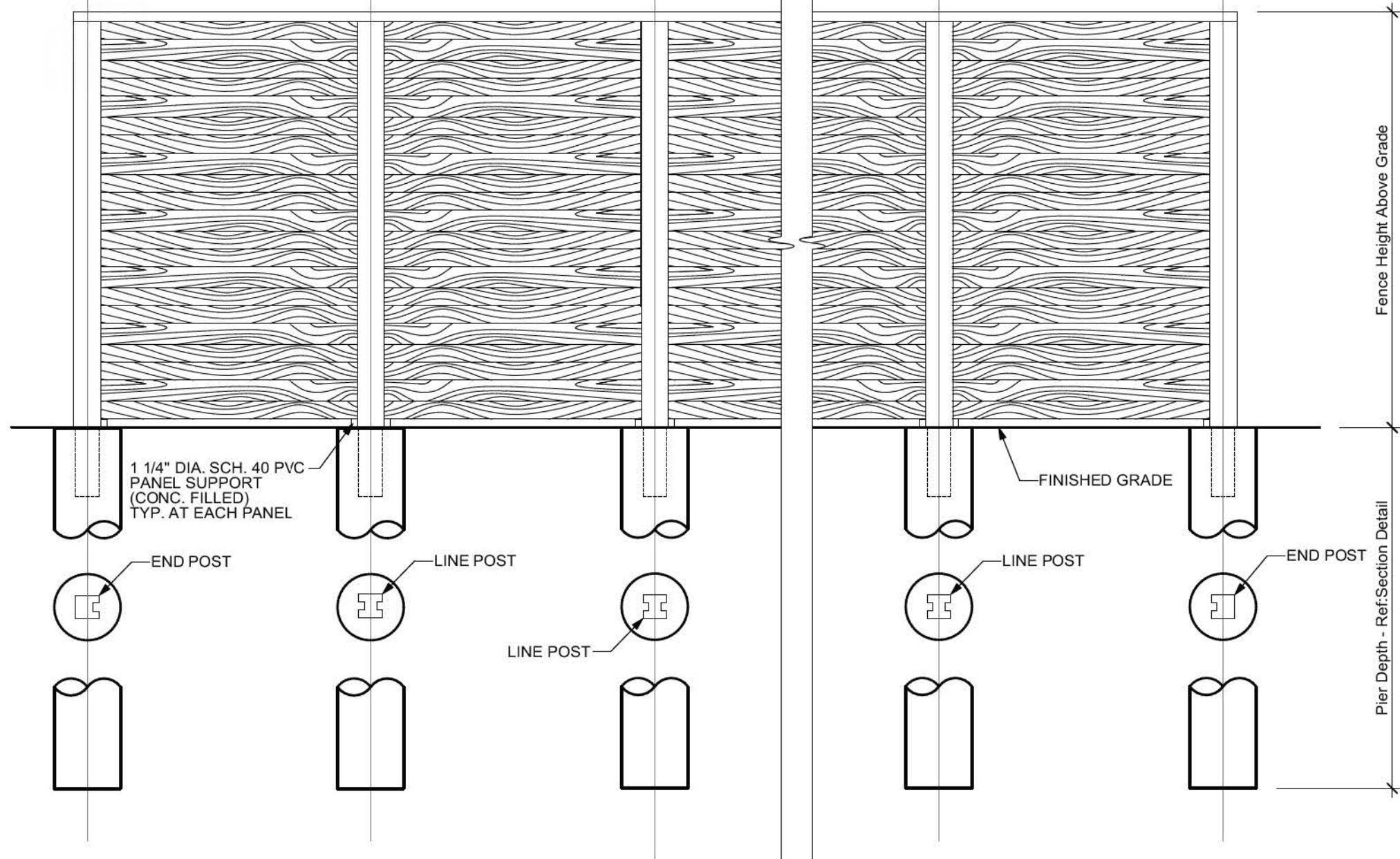
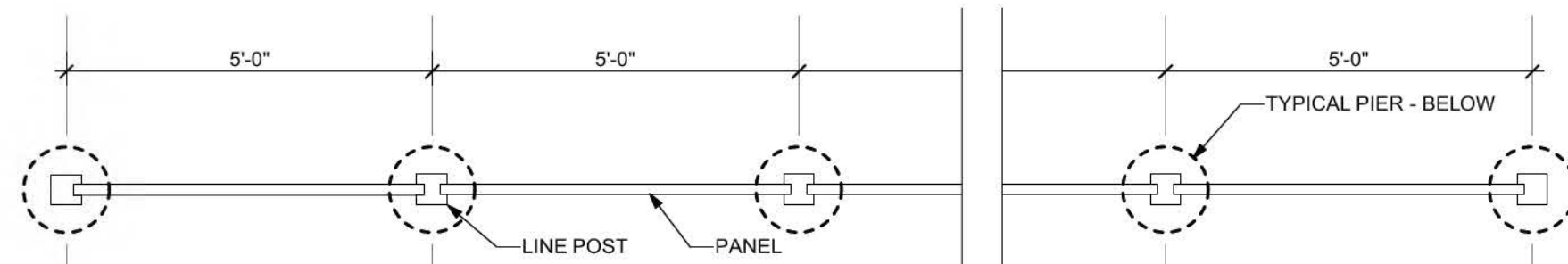


The drawing consists of two views of a wooden cap. The top view, labeled "TOP VIEW-CAP", shows a rectangular piece with a length of $56 \pm \frac{3}{4}"$ and a width of $1"$. The elevation view, labeled "ELEVATION-CAP", shows the side profile of the cap, which has a thickness of $1 \frac{1}{2}"$ and a height of t_4 . The wood grain is indicated by wavy lines.

PANEL CAP



STANDARD PANEL



ELEVATION - SCREENING WALL AND PIERS

NO SCALE

GENERAL:

1. This project has been designed in accordance with the California Building Code, 2019 Edition.
2. Applied loads:
 - a. Wind Velocity (V) = 100 mph
 - b. Exposure: C
 - c. Velocity Pressure Exposure Coefficient (K_z) = 0.85
 - d. Wind Directionality Factor (K_d) = 0.85
 - e. Topographic Factor (K_{zt}) = 1.0
 - f. Wind Pressure $P = 0.00256(K_z)(K_{zt})(K_d)(V^2/I)$
 $P = 0.00256(0.85)(1.0)(0.85)(100^2/2.0)$
 $P = 18.50 \text{ psf}$
 - g. Working Design Stress: 33% (allow increase 1.33)
 - h. Seismic Design: Site Class D
 - i. Importance Factor (I_p) = 1.0
3. Screening wall to be constructed entirely on the project property.
4. Color:
 - a. Post, Panels and Panel caps shall be integrally colored.
 - b. Color shall be brown as approved by the on-site owner.
5. The contractor/owner is responsible for hiring a geotechnical engineer to determine if local soil conditions meet or exceed minimum soil properties shown on this plan.
6. Pier installation may encounter areas of granular, collapsing soils that may contain perched groundwater. Piers must be extended through soft and organic deposits to provide adequate lateral and vertical support. Temporary casing may be necessary for the drilled pier installation operation to maintain the drilled shaft open through these soils during construction.
7. If the contractor finds any discrepancies between the site and these plans, he shall notify the engineer immediately.
8. Upon receipt of precast products at the job site, the Installation Team shall inspect the products for any defects and defects prior to installation. Any precast products found to have defects shall be replaced.
9. Unless specifically noted otherwise, no surcharges may be placed behind retaining walls, berms, retaining walls, or other areas that to the retained height. Prohibited surcharges include staging of construction materials, vehicles, construction, compaction equipment, and vegetation.
10. Unless specifically noted otherwise, the wall and piers shall not be installed adjacent to hillsides, berms, retaining walls, or other areas that may affect the lateral bearing capacity of the piers. Contact the engineer prior to installation if such a condition exists.

a. Concrete shall be normal weight concrete having sand and gravel or crushed stone aggregate. Mixed with ASTM-C150, type I or II Portland cement to meet the minimum compressive strength as follows:

Elements	F _c (28 days)	Slump	Max w/c Ratio	Ins. Req'd?
Precast Panels & Posts	3000 psi	5"	0.55	No*
Footings & Piers	3000 psi	6"	0.60	No*

*"Precast Panels & Posts have been designed for F_c of 2500 psi, therefore inspection is not required."

*"Footings & Piers have been designed for F_c of 2500 psi, therefore inspection is not required."

b. Water used for concrete shall be clean water and free from injurious amounts of oils, acids, alkalies, organic or other deleterious substances.

2. Concrete workmanship:

- Fresh poured concrete shall be tamped in to place using steel rammer, slicked, trowel or mechanical vibrator, until concrete is thoroughly compact and without void.
- Excavation for footing shall be on undisturbed soil or to the depth noted on the drawings. Leave the bottom bearing surface clean and undisturbed. If footing is to be placed in made earth other than intended, only concrete shall be used for fill. Remove all loose material from excavations prior to concrete pour.

a. All aggregates shall conform to ASTM C33. Maximum aggregate sizes:

- Footings: 1-1/2"
- All other work: 3/4"

4. The Owner recognizes his or her obligation to ensure that the construction complies with the approved permit documents and to implement the program of special inspections. In partial fulfillment of these obligations, the Owner will retain and directly pay for the Special Inspections as required in the Governing Building Code, Section 1704.2.

17. Fully specify the following minimum soil properties:

- a. Soil Compaction ***** 95
- b. Density ***** 110 pcf
- c. Bearing Capacity (Total Load + W/E) ***** 1500 psf
- d. Friction Resistance ***** 0.25
- e. Lateral Bearing ***** 100 psf/ft of depth
- f. Active Pressure ***** 40 pcf

Soils values per geologic/geotechnical report (or "soils report") by LGC Geotechnical, Inc., Project No. 19067-01, dated July 12, 2019. This report and all recommendations contained therein are to be considered a part of these plans.

1. All design criteria based on construction on natural ground. Screenwall not to be constructed on berms or fill dirt.

- a. Deformed type bars shall conform to ASTM-A 615, Grade 60 placed as shown on the drawings.
- b. Steel reinforcing wire shall meet U.S. Steel wire grade, ASTM-A 82, fy = 70,000 psi min galvanized.
- c. All ties and stirrups shall conform to U.S. Steel-A 615, grade 40.
- d. All wire mesh shall be galvanized with the gauge and spacing per plan. The smaller spacing shall be placed in the horizontal direction.

2. Reinforcing workmanship:

- a. Reinforcement steel shall be fabricated in accordance with the CRSI Standard Detail. Reinforcing bars shall be cold-bent only. Use of heat to bend reinforcing steel shall be cause for rejection.
- b. Reinforcement steel bars and wire fabric shall be thoroughly cleaned before placing and again before the concrete is placed. Shall be accurately positioned and secured in place. No brick or porous materials may be used to support the steel off the ground.
- c. Install all reinforcement with the following clearance between reinforcing steel and face of concrete:
 - 1. Footing, pier or beam bottom (3")
 - 2. Earth-formed pier or beam side (2")
 - 3. Formed footing, pier or beam sides, exposed (1")
 - 4. Prest. exposed to weather (4" for 3/4", posts (1-1/4")
- d. Splices within continuous unsheathed reinforcing steel shall have a minimum lap of 30 bar diameters.

Seismic Design Category	D
Site Class	E
Seismic Factors	
S_D / S_1	1.666 / 0.767
S_{D5} / S_{D1}	1.111 / 0.869
Risk Category	II
Importance Factor, I_e	1.00
Resisting System:	Ground Supported Cantilever Fence
Response Mod. Coefficient, R	1.25
Design Base Shear	$V = 0.889W$
Analysis Procedure:	Eqv. Lateral Force (ASCE 7-16, T. 15.4-2)

2246 Durfee Avenue, El Monte, CA 91732, (800) 691-7118
www.AmericanPrecast.com

Note: The Drawings and Specifications and Ideas, Designs and Arrangements Represented Thereby are and Shall Remain the Property of the American Precast Concrete, Inc. and No Part Thereof Shall be Copied, Disclosed to Others or Used in Connection with any Work or Project other than the Specific Project for which they have been Prepared and Developed without the Written Consent of the American Precast Concrete, Inc.

Woodcrete

Revision:

Proj. Engr.

	Proj. Mngr
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Date:	
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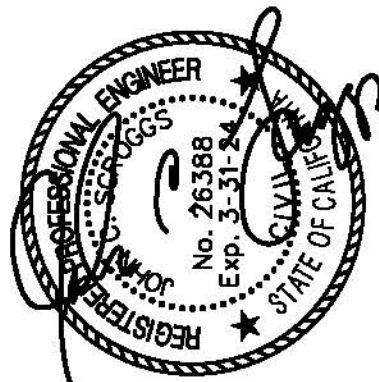
100% RELEASE

RELEASE 4

DATE: JULY 2011

SCALE:

JOB NO



IMPROVEMENT PLANS FOR CONSTRUCTION OF
JENNYLIND ELEMENTARY SCHOOL
WASTEWATER TREATMENT PLANT UPGRADE PROJECT
CALAVERAS UNIFIED SCHOOL DISTRICT
CALAVERAS COUNTY

**SILVER RAPIDS ROAD INTERMEDIATE
LIFT STATION SCREEN WALL**

CONSULTING
KASL
ENGINEERS

7777 Greenback Lane
Suite 104
Citrus Heights, CA 95616
Tel. (916) 722-1800
Fax (916) 722-4696

CIVIL - WATER RESOURCES - SURVEYING

SHEET 53 OF 102