

ABBREVIATIONS

AASHTO	AMERICAN ASSOCIATION OF STATE HIGHWAY & TRANSPORTATION OFFICIALS
ABC	AGGREGATE BASE COURSE
AC	ASBESTOS CEMENT
AP	ANGLE POINT
ASB	ANCHORED STRAW BALES
ASP	ALUMINIZED STEEL PIPE
ASTM	AMERICAN SOCIETY FOR TESTING MATERIALS
AWWA	AMERICAN WATER WORKS ASSOCIATION
BC	BACK OF CURB
BF	BUTTERFLY VALVE
BOW	BACK OF WALK
BCR	BEGIN CURB RETURN
BOT	BOTTOM
BSWMP	BETTER STORM WATER MANAGEMENT PRACTICES
CH	CHORD
CAP	CORRUGATED ALUMINUM PIPE
CDOT	COLORADO DEPARTMENT OF TRANSPORTATION
CI	CAST IRON
C,G,& SW	CURB, GUTTER & SIDEWALK
C	CENTER LINE
CL	CLEAR
CMP	CORRUGATED METAL PIPE
CO	CLEAN OUT
COMB	COMBINATION (AS IN STORM SEWER AND SANITARY SEWER)
CONC	CONCRETE
CSM	CITY SURVEY MONUMENT
CSP	CORRUGATED STEEL PIPE
CU	COPPER
DI	DUCTILE IRON
DWY	DRIVEWAY
E	ELECTRIC
ECR	END CURB RETURN
EG	EDGE OF GUTTER
EL	ELEVATION
EP	EDGE OF PAVEMENT
EX	EXISTING
FB	FULL BODY
FC	FACE OF CURB
FG	FINISHED GRADE
F	FLOW LINE
FL	FLANGE
FM	FORCE MAIN
FO	FIBER OPTICS
FS	FAR SIDE
FTG	FOOTING
G	GAS
GB	GRADE BREAK
GM	GAS METER
GV	GATE VALVE
HBP	HOT BITUMINOUS PAVEMENT
HDPPE	HIGH DENSITY POLYETHYLENE
INV	INVERT
IRR	IRRIGATION
L	LENGTH OF ARC
LC	LONG CHORD
LF	LINEAR FEET
LL	LONG ARC
LS	SHORT ARC
LT	LEFT
MB	MAILBOX
MCSM	MESA COUNTY SURVEY MONUMENT
MH	MANHOLE
MJ	MECHANICAL JOINT
MW	MILL WRAP
N/A	NOT APPLICABLE
NIC	NOT IN CONTRACT
NOP	NO ONE PERSON
NRCP	NON-REINFORCED CONCRETE PIPE
NS	NEAR SIDE
NTS	NOT TO SCALE
OHP	OVERHEAD POWER
OHT	OVERHEAD TELEPHONE
PC	POINT OF CURVATURE
PCC	POINT OF COMPOUND CURVATURE
PE	POLYETHYLENE
PERF	PERFORATED
PI	POINT OF INTERSECTION
PIP	PLASTIC IRRIGATION PIPE
POC	POINT ON CURVE
POT	POINT ON TANGENT
PR	PROPOSED
PRC	POINT OF REVERSE CURVATURE
PT	POINT OF TANGENCY
PVC	POLYVINYL CHLORIDE
R	RADIUS
RCP	REINFORCED CONCRETE PIPE
REQ'D	REQUIRED
RG	RESTRAINED GLANDS
RL	LONG RADIUS
ROW	RIGHT OF WAY
RP	RADIUS POINT
RR	RAIL ROAD
RS	SHORT RADIUS
RT	RIGHT
S	SLOPE
SAN	SANITARY
SC	SHORT CHORD
SCD	STANDARD CONTRACT DOCUMENTS
SCH	SCHEDULE
SF	SILT FENCE
SL	SECTION LINE
SSRB	STANDARD SPECIFICATIONS FOR ROAD & BRIDGE CONSTRUCTION
SSUU	STANDARD SPECIFICATIONS FOR CONSTRUCTION OF UNDERGROUND UTILITIES
STA	STATION
STL	STEEL
STM	STORM
T	TELEPHONE
TAN	LENGTH OF TANGENT
TC	TOP OF CURB
TH	TEST HOLE
TV	TELEVISION
(TYP)	TYPICAL
UU	UNDERGROUND UTILITIES
VC	VERTICAL CURVE
VCP	VITRIFIED CLAY PIPE
VPC	VERTICAL POINT OF CURVATURE
VPC	VERTICAL POINT OF COMPOUND CURVATURE
VPRC	VERTICAL POINT OF REVERSE CURVATURE
VPI	VERTICAL POINT OF INTERSECTION
VPT	VERTICAL POINT OF TANGENCY
W	WATER
Δ	DELTA ANGLE

LEGEND

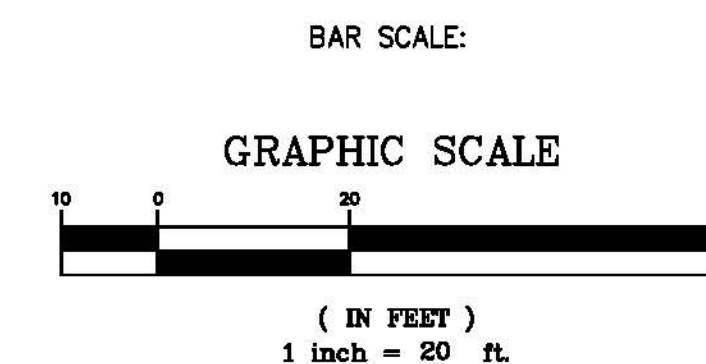
BSWMP DRAINAGE BASIN BOUNDARY	
BSWMP ANCHORED STRAW BALES	
BSWMP SILT FENCE	
BUILDING	
CHLORINE LINE	
CONCRETE CURB AND GUTTER	
CONCRETE CURB, GUTTER, & SIDEWALK	
CONCRETE DITCH	
CONCRETE SIDEWALK	
CULVERT	
EARTH DITCH	
EDGE OF GRAVEL	
EDGE OF PAVEMENT	
FENCE (BARBED WIRE)	
FENCE (CHAIN LINK)	
FENCE (IRON)	
FENCE (PLASTIC)	
FENCE (TEMPORARY CONSTRUCTION)	
FENCE (WOOD)	
FENCE (WOVEN WIRE)	
GUARD RAIL	
HATCHING: INDICATES ASPHALT REMOVAL	
HATCHING: INDICATES CONCRETE REMOVAL	
HATCHING: INDICATES STAGING AREA	
LINE (CENTER OF IMPROVEMENTS)	
LINE (CITY LIMITS)	
LINE (CONTROL)	
LINE (EASEMENT)	
LINE (MONUMENT/SECTION)	
LINE (PROPERTY)	
LINE (RIGHT OF WAY)	
MATCH LINE	
PIPE (IRRIGATION)	
PIPE (SIPHON)	
PLANT WATER	

PROPOSED CONCRETE CURB AND GUTTER	
PROPOSED CONCRETE CURB, GUTTER, & SIDEWALK	
PROPOSED CONCRETE SIDEWALK	
PROPOSED "WET" UTILITIES (CONSTRUCTION NOTE WILL INDICATE TYPE, SIZE, AND MATERIAL OF NEW MAIN)	
RAIL ROAD	
RETAINING WALL	
STRIPING (CONTINUOUS WHITE)	
STRIPING (DASHED WHITE)	
STRIPING (CONTINUOUS YELLOW)	
STRIPING (DASHED YELLOW)	
TOP OF SLOPE	
CONTOUR LINES (SHOWN BETWEEN TOP & TOE)	
TOE OF SLOPE	
TRAFFIC DETECTOR LOOP	
UTILITY LINE (ABANDON) (THIS CASE A WATER LINE)	
UTILITY LINE (CABLE TV)	
UTILITY LINE (ELECTRIC)	
UTILITY LINE (FIBER OPTIC)	
UTILITY LINE (GAS)	
UTILITY LINE (HIGH VOLTAGE OVERHEAD POWER)	
UTILITY LINE (OVERHEAD POWER)	
UTILITY LINE (OVERHEAD TELEPHONE)	
UTILITY LINE (SANITARY SEWER)	
UTILITY LINE (SANITARY SEWER FORCE MAIN)	
UTILITY LINE (SANITARY SEWER SERVICE)	
UTILITY LINE (STORM SEWER)	
UTILITY LINE (STORM SEWER, PERFORATED)	
UTILITY LINE (STORM/SANITARY SEWER SEWER COMBINATION)	
UTILITY LINE (TELEPHONE)	
UTILITY LINE (WATER)	

ALL PROPOSED FEATURES NOT SHOWN IN LEGEND WILL BE SHOWN THE SAME AS THEIR EXISTING COUNTERPART, BUT INDICATED BY BOLDER LINETYPE

SYMBOLS

BENCH MARK	
CATCH BASIN	
CLEAN OUT	
CURB STOP	
FIRE HYDRANT	
GUY WIRE ANCHOR	
HEADGATE	
IRRIGATION PUMP	
MAILBOX	
MANHOLE (ELECTRIC)	
MANHOLE (GAS)	
MANHOLE (SANITARY/STORM)	
MANHOLE (TELEPHONE)	
MANHOLE (TV)	
MANHOLE (WATER)	
METER (GAS)	
METER (WATER)	
PEDESTAL (TELEPHONE)	
PEDESTAL (TV)	
PROPERTY PIN	
PULL BOX	
REDUCER FITTING	
SIGN OR POST (SIGN TYPE NOTED)	
SPRINKLER HEAD	
STREET LIGHT	
SURVEY MONUMENT (CITY)	
SURVEY MONUMENT (TYPE NOTED)	
TEST HOLE	
TRAFFIC PAINT MARKING	
TRAFFIC SIGNAL POLE AND MAST ARM	
UTILITY POLE	
VALVE (GAS)	
VALVE (IRRIGATION)	
VALVE (WATER)	
VEGETATION (HEDGE OR BUSH)	
VEGETATION (TREE STUMP)	
VEGETATION (TREE) (CALIPER SIZE NOTED)	
WATER HYDRANT	
WEIR	
YARD LIGHT	



NORTH ARROW:



REVISION Δ	DESCRIPTION	DATE
REVISION Δ		
REVISION Δ		
REVISION Δ		

DRAWN BY	JCS	DATE	4-02
DESIGNED BY		DATE	
CHECKED BY		DATE	
APPROVED BY		DATE	

SCALE	PLAN	PROFILE
	HORIZ. 1"=20'	HORIZ.
		VERT.



PUBLIC WORKS AND UTILITIES ENGINEERING DIVISION

CITY OF GRAND JUNCTION STANDARD ABBREVIATIONS, LEGEND, AND SYMBOLS SHEET

Bid Schedule: Sludge Line Replacement

Item No.	CDOT, City Ref.	Description	Quantity	Units	Unit Price	Total Price
1	103.16	Import Pit Run	1,800.	Ton	\$ _____	\$ _____
2	108.2	6" Pressure Sewer Pipe (C-900 PVC)	720.	LF	\$ _____	\$ _____
3	108.2	4" Electric conduit (Schedule 80)	250.	LF	\$ _____	\$ _____
4	108.2	Concrete cap on Sewer and Grease Lines	60.	LF	\$ _____	\$ _____
5	108.2	Sanitary Sewer Cleanout Cover (standard Detail SS-07)	4.	EA	\$ _____	\$ _____
6	108.3	6" Sanitary Sewer Cleanout (include pipe, fittings, mechanical restraints and cover per cleanout detail)	4.	EA	\$ _____	\$ _____
7	108.3	6" Fitting (special) (Mega Flange)	5.	EA	\$ _____	\$ _____
8	108.3	6" Fitting (special) (Grease Line Detail)	1.	EA	\$ _____	\$ _____
9	108.3	6" 11 1/4" Elbow	6.	EA	\$ _____	\$ _____
10	108.3	6" 22 1/2" Elbow	1.	EA	\$ _____	\$ _____
11	108.7	Granular Stabilization Material (Type B)	300.	Ton	\$ _____	\$ _____
12	202	Removal of asphalt	50.	SY	\$ _____	\$ _____
13	202	Saw Cuts	200.	LF	\$ _____	\$ _____
14	207	Topsoil	60.	Tons	\$ _____	\$ _____
15	208	Erosion Control (Complete in place)	Lump sum		---	\$ _____
16	210	Reset Sprinkler Head	5.	EA	\$ _____	\$ _____
17	304	Aggregate Base Course (Class 6) (16 inch Thick)	50.	SY	\$ _____	\$ _____
18	608	Concrete Curb and Gutter (2' wide)	40.	SY	\$ _____	\$ _____
19	608	Concrete Sidewalk (4" Thick)	170.	SY	\$ _____	\$ _____
20	608	Concrete Intersection Fillet	30.	SY	\$ _____	\$ _____
21	626	Construction Surveying	Lump sum		---	\$ _____
22	626	Mobilization	Lump sum		---	\$ _____
23	707	Bollard	2.	EA	\$ _____	\$ _____
MCR		Minor Contract Revisions	---	---	---	\$ 7,000.00

Bid Amount: \$ _____

Bid Amount: _____ dollars

BF-2 (1 of 1)

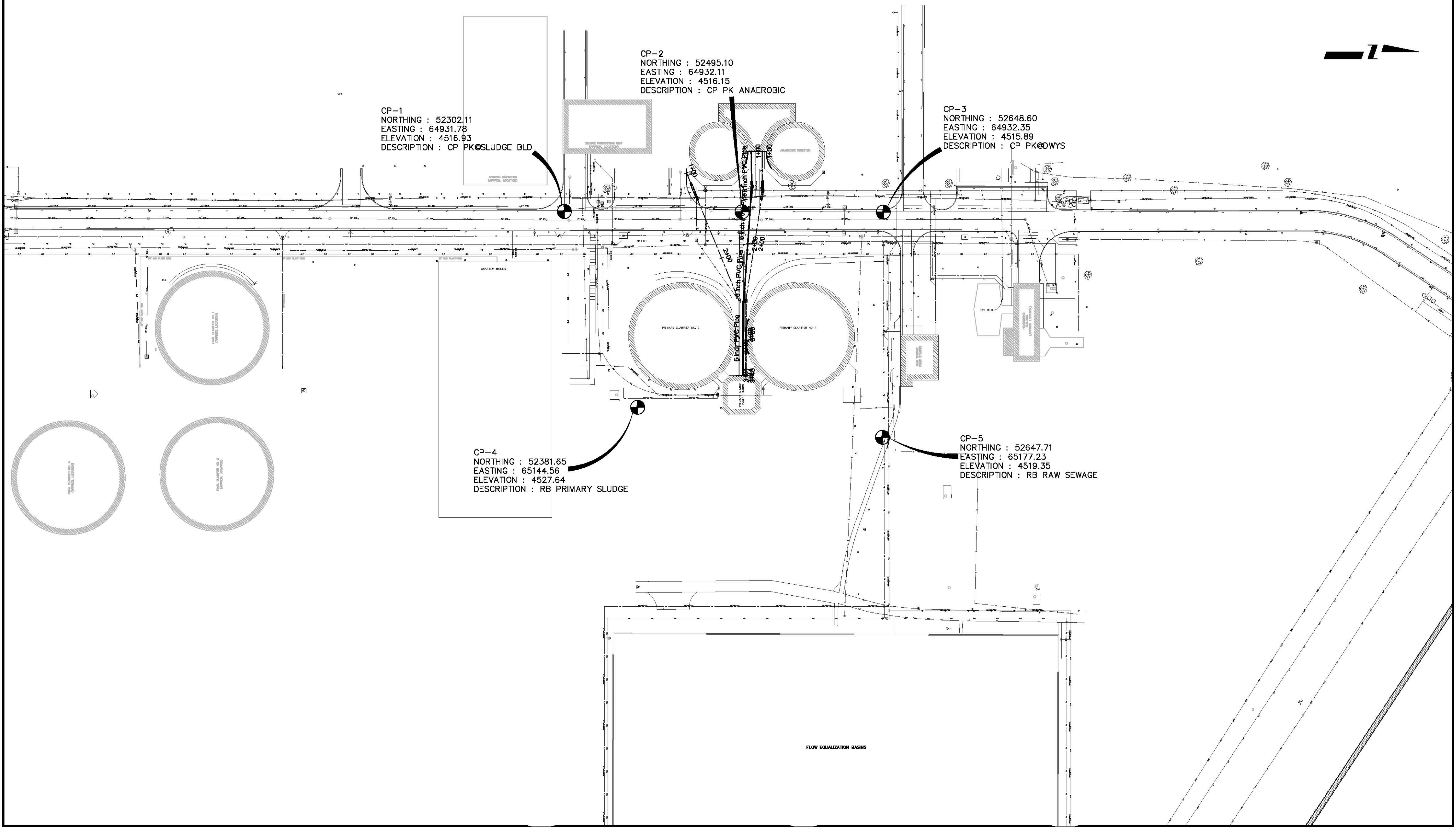
REVISION Δ _____	DESCRIPTION _____	DATE _____	DRAWN BY _____	DATE _____
REVISION Δ _____	DESIGNED BY _____	DATE _____	CHECKED BY _____	DATE _____
REVISION Δ _____	APPROVED BY _____	DATE _____		

SCALE
N.T.S.



**PUBLIC WORKS
AND UTILITIES
ENGINEERING DIVISION**

**PERSIGO SLUDGE LINE REHABILITATION
SUMMARY OF APPROXIMATE QUANTITIES**



REVISION	DESCRIPTION	DATE	DRAWN BY	DATE
REVISION			DESIGNED BY	DATE
REVISION			CHECKED BY	DATE
REVISION			APPROVED BY	DATE

SCALE
N.T.S.



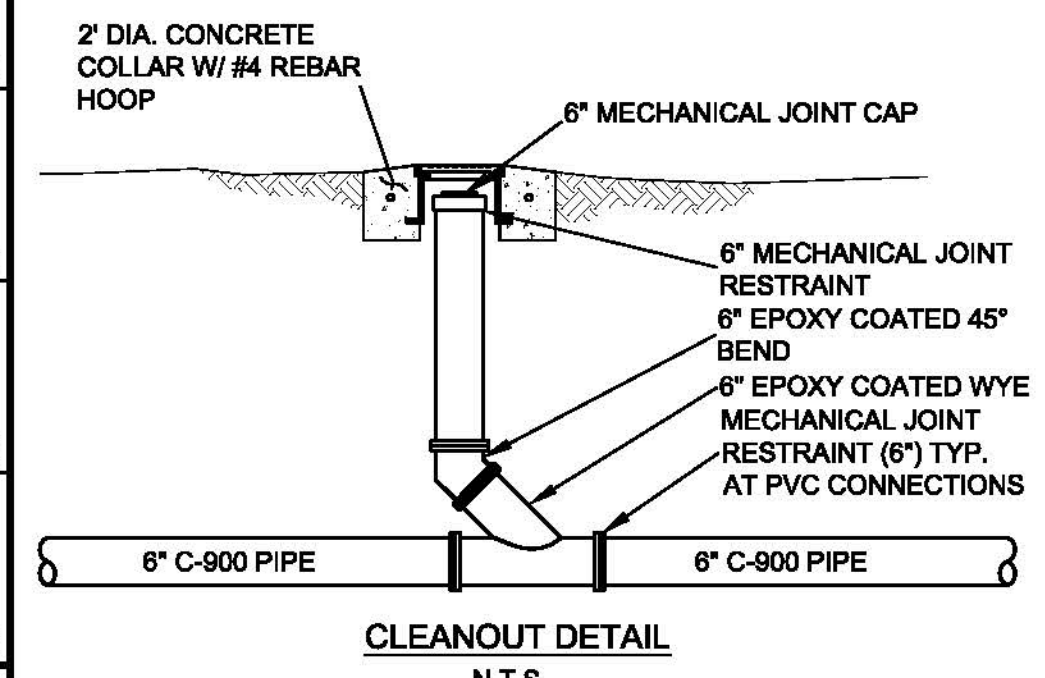
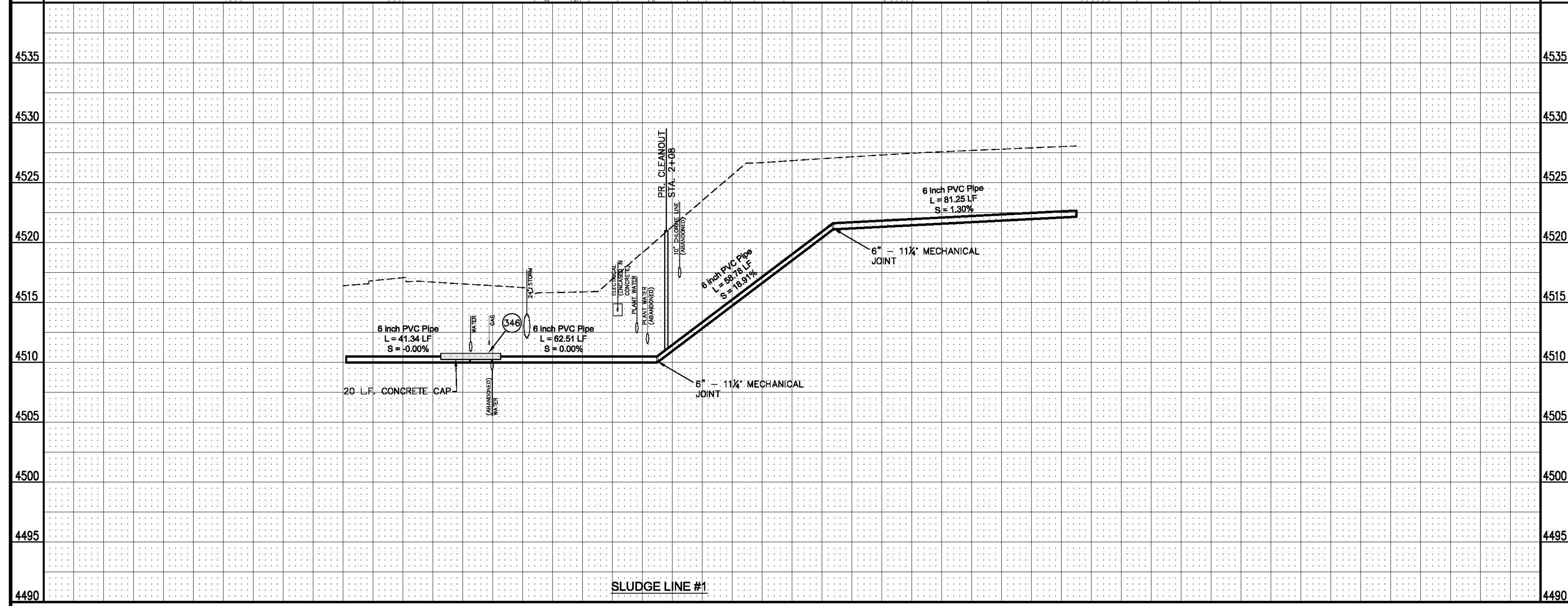
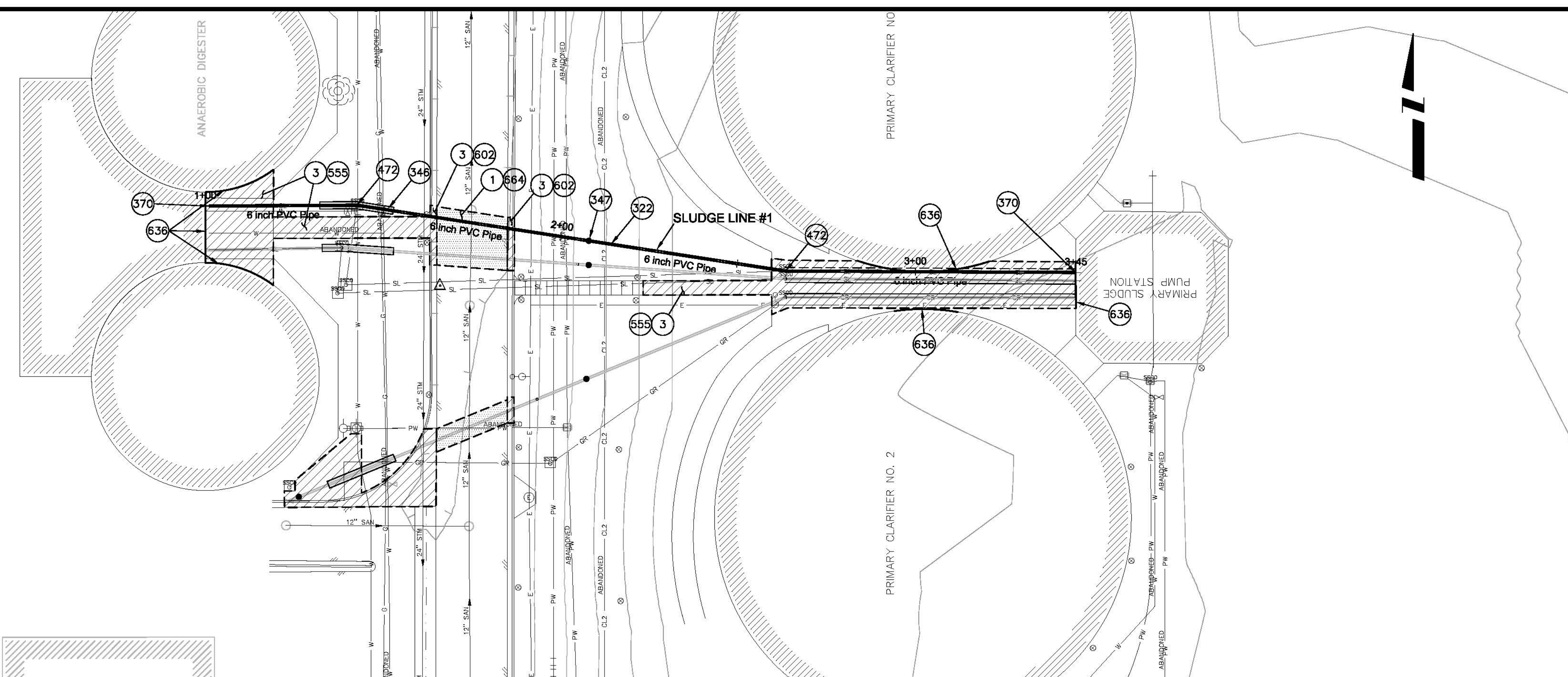
**PUBLIC WORKS
AND UTILITIES
ENGINEERING DIVISION**

**PERSIGO SLUDGE LINE REHABILITATION
PROJECT CONTROL MAP**

I:\s\proj\904-F001002\Drawings\904-F001002-01.dwg, 11/20/2009 1:28:37 PM

CONSTRUCTION NOTES

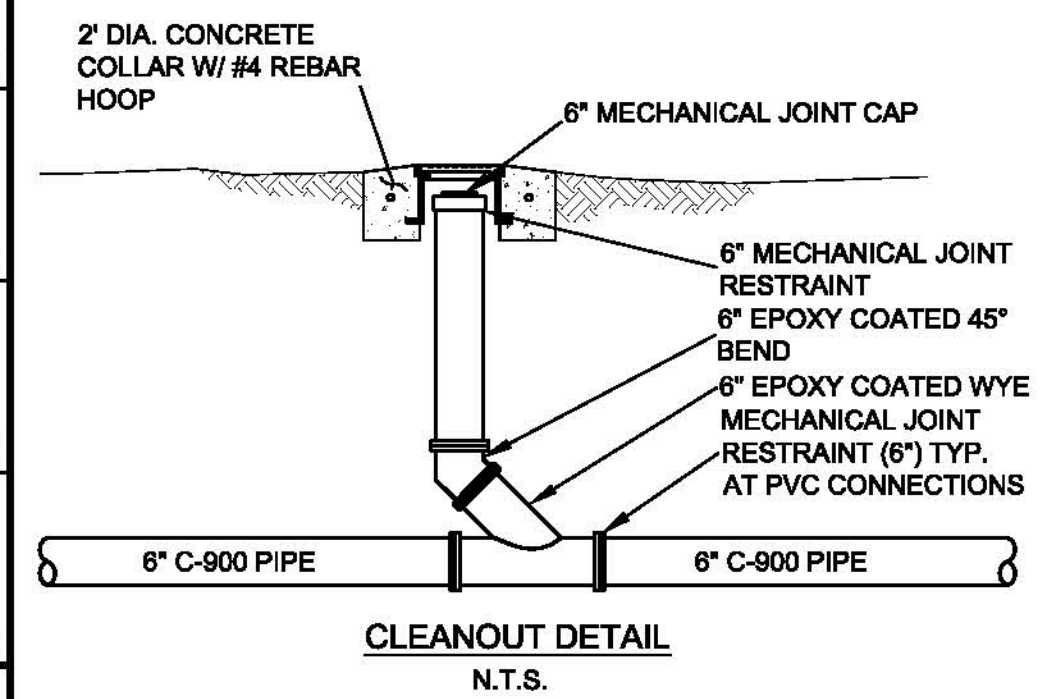
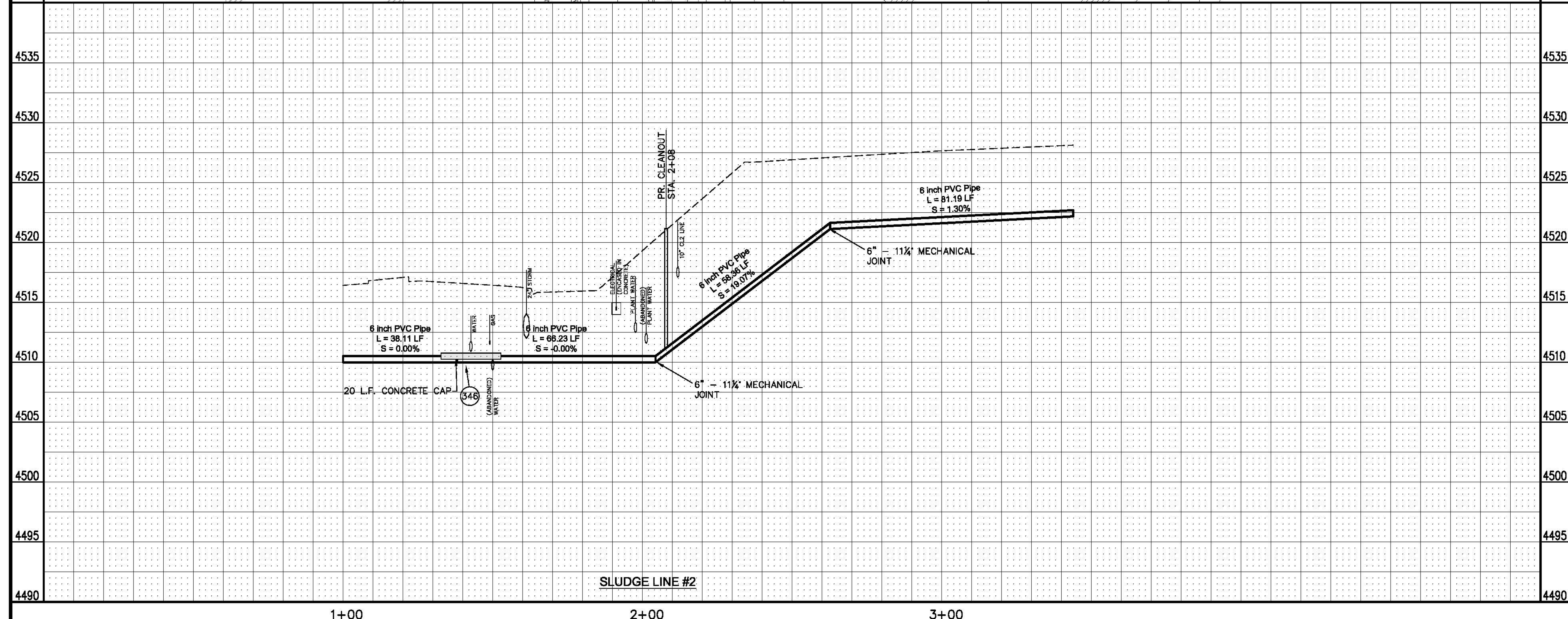
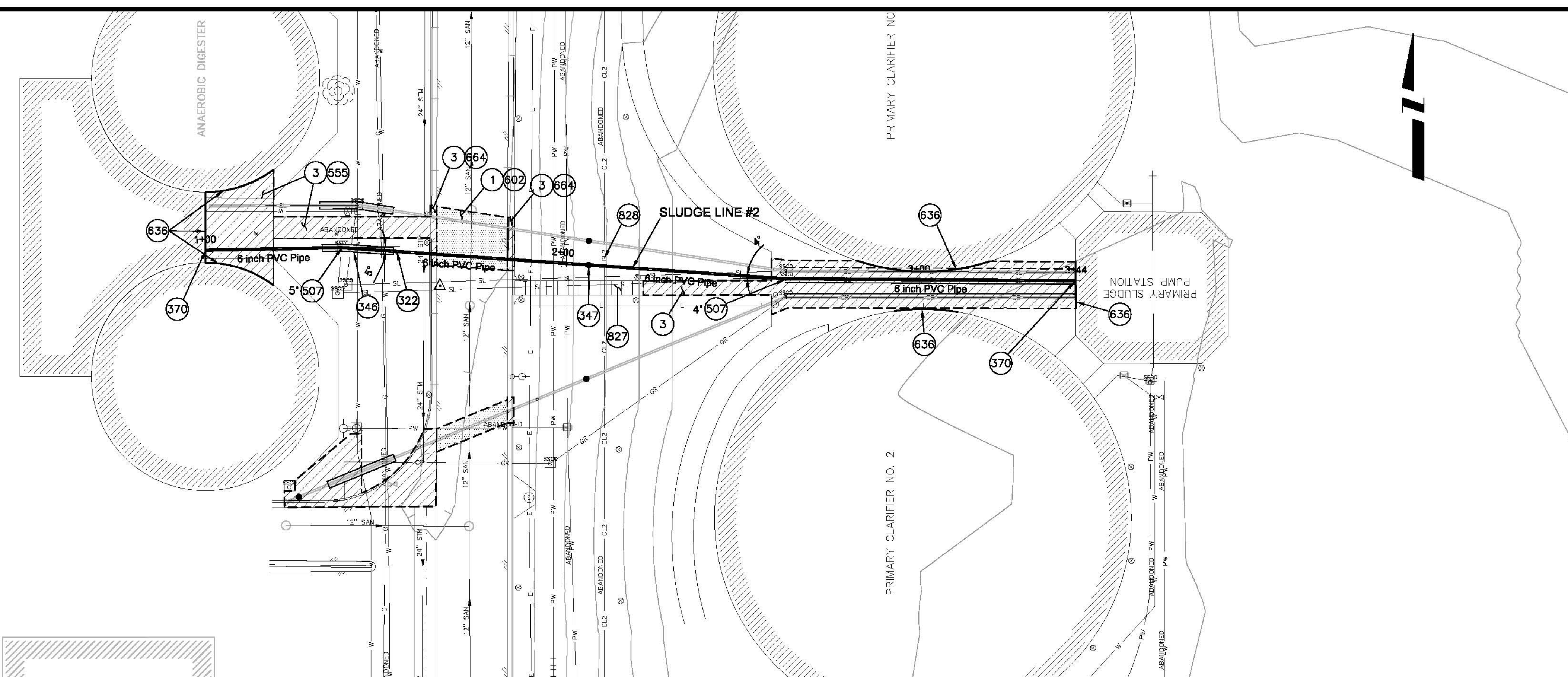
- ① 202 - REMOVAL OF ASPHALT MAT. CUT AND REMOVE ASPHALT AS SHOWN. (INDICATED BY DOT HATCH PATTERN)
- ③ 202 - REMOVAL OF CONCRETE. SAW CUT AND REMOVE CONCRETE TO NEAREST JOINT. (INDICATED BY CROSS HATCH PATTERN) INCLUDES BUT NOT LIMITED TO CURB, GUTTER, SIDEWALK, DRIVEWAY, SLABS, V-PAN, CURB RAMPS, INTERSECTION CORNERS, APRONS, AND LANDSCAPE BORDERS.
- ③22 102.9/108.2 - 6" GRAVITY SEWER PIPE (C-900 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL AND TRACING WIRE.
- ③46 104.40 - CAP TOP HALF OF SEWER IN CONCRETE PER STD. DETAIL GU-04. (WATER LINE LESS THAN 18" ABOVE SEWER LINE)
- ③47 INSTALL SANITARY SEWER CLEANOUT, CLEANOUT RING & COVER AND CONCRETE COLLAR. ALL JOINTS ON CLEANOUT SHALL BE FULLY RESTRAINED. SEE DETAIL THIS SHEET.
- ③70 CONNECT NEW PIPE TO EXISTING PIPE/FITTING.
- ④72 102.8/108.3 - 6", 11.25" ELBOW (MECHANICAL JOINT).
- ⑤55 608.06 - CONCRETE SIDEWALK (4" THICK) CLASS B CONCRETE W/ 4" CLASS 6 AGGREGATE BASE COURSE COMPACTED TO 95% AASHTO T-180 METHOD A.
- ⑥02 608.06 - CONCRETE CURB AND GUTTER (2' WIDE).
- ⑥36 INSTALL EXPANSION MATERIAL AND CAULKING.
- ⑥64 304 - AGGREGATE BASE COURSE (CLASS 6) (12" THICK) COMPACTED TO 95% AASHTO T-180 METHOD A.



	1+00	2+00	3+00				
REVISION Δ _____ REVISION Δ _____ REVISION Δ _____ REVISION Δ _____	DESCRIPTION _____ DATE _____ DATE _____ DATE _____	DRAWN BY JAH DATE 11/2008 DESIGNED BY JV DATE 11/2008 CHECKED BY _____ DATE _____ APPROVED BY _____ DATE _____	SCALES: PLAN HORIZONTAL 1" = 10' PROFILE HORIZONTAL 1" = 10' VERTICAL 1" = 2'		PUBLIC WORKS AND UTILITIES ENGINEERING DIVISION	PERSIGO SLUDGE LINE REHABILITATION SLUDGE LINE #1 PLAN AND PROFILE STA 1+00 TO STA 3+45	5

CONSTRUCTION NOTES

- ① 202 - REMOVAL OF ASPHALT MAT. CUT AND REMOVE ASPHALT AS SHOWN. (INDICATED BY DOT HATCH PATTERN)
- ③ 202 - REMOVAL OF CONCRETE. SAW CUT AND REMOVE CONCRETE TO NEAREST JOINT. (INDICATED BY CROSS HATCH PATTERN) INCLUDES BUT NOT LIMITED TO CURB, GUTTER, SIDEWALK, DRIVEWAY, SLABS, V-PAN, CURB RAMPS, INTERSECTION CORNERS, APRONS, AND LANDSCAPE BORDERS..
- ③22 102.9/108.2 - 6" GRAVITY SEWER PIPE (C-900 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL AND TRACING WIRE.
- ③46 102/104.3.C - ENCLOSE 6" SANITARY SEWER IN 10" C-900 CASING PIPE POLYETHYLENE CASING SPACERS REQUIRED.
- ③47 INSTALL SANITARY SEWER CLEANOUT, CLEANOUT RING & COVER AND CONCRETE COLLAR (SS-07).
- ③70 CONNECT NEW PIPE TO EXISTING PIPE/FITTING.
- ④72 102.8/108.3 - 6", 11.25° ELBOW (MECHANICAL JOINT).
- ⑤07 DEFLECT PIPE AS SHOWN.
- ⑤55 608.06 - CONCRETE SIDEWALK (4" THICK) CLASS B CONCRETE W/ 4" CLASS 6 AGGREGATE BASE COURSE COMPACTED TO 95% AASHTO T-180 METHOD A.
- ⑥02 608.06 - CONCRETE CURB AND GUTTER (2' WIDE).
- ⑥36 INSTALL EXPANSION MATERIAL AND CAULKING.
- ⑥64 304 - AGGREGATE BASE COURSE (CLASS 6) (12" THICK) COMPACTED TO 95% AASHTO T-180 METHOD A.
- ⑧27 PROTECT EXISTING STAIRS AND HANDRAIL IN PLACE.
- ⑧28 CUT AND CAP EXISTING ABANDONED CHLORINE LINE.



REVISION	DESCRIPTION	DATE	DRAWN BY	DATE
REVISION A			JAH	11/2008
REVISION B			JV	11/2008
REVISION C				
REVISION D				

SCALES:	PLAN	PROFILE
	HORIZONTAL 1" = 20'	HORIZONTAL 1" = 20'
	VERTICAL 1" = 2'	VERTICAL 1" = 2'

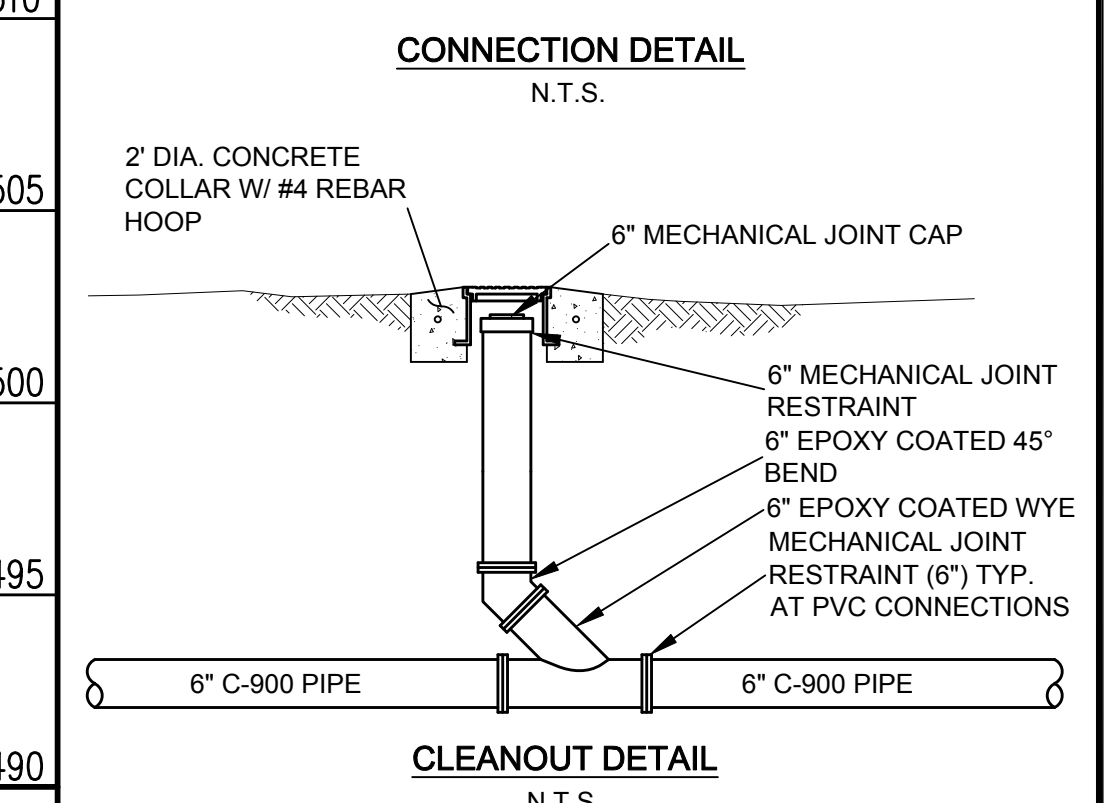
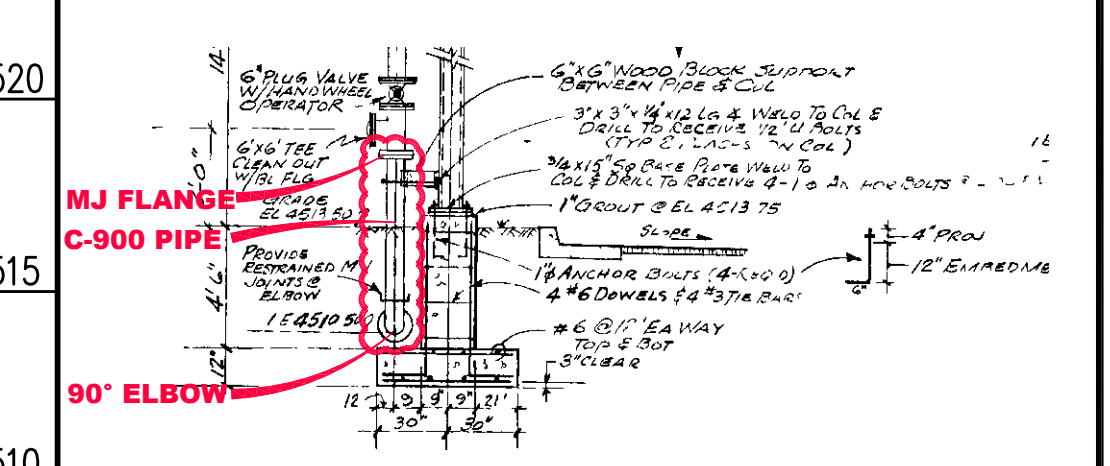
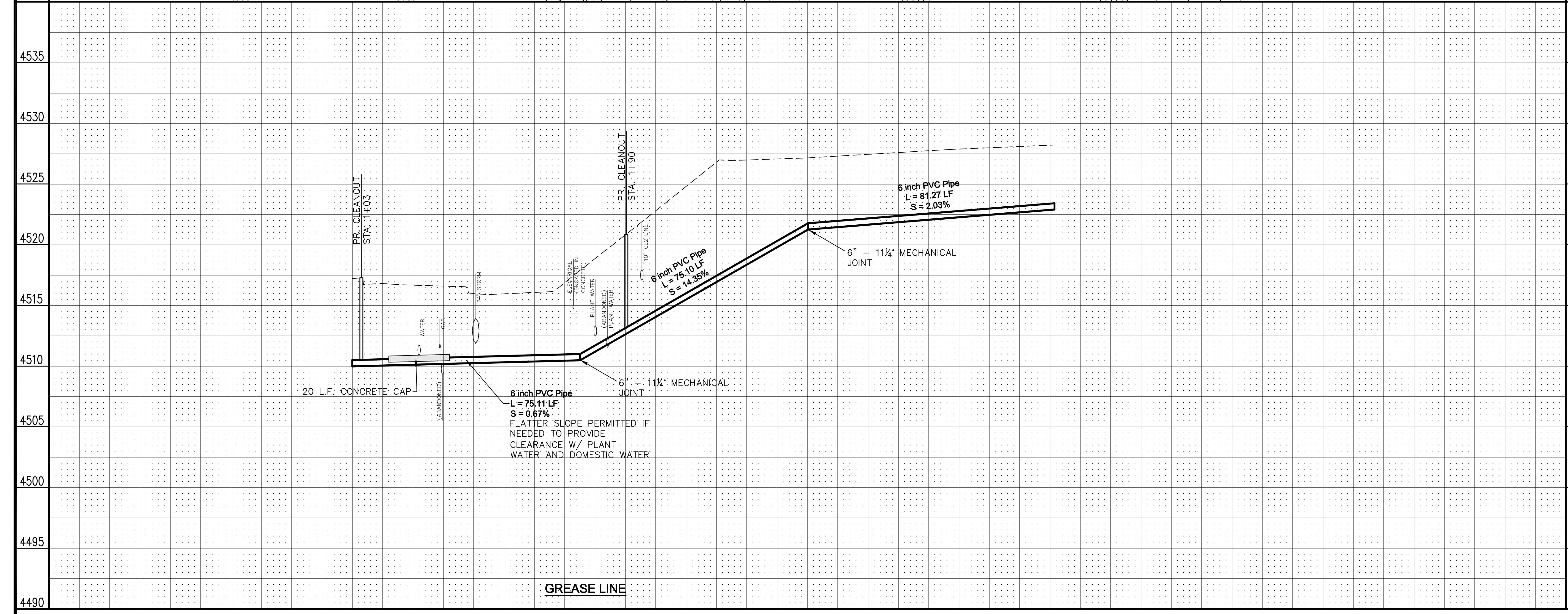
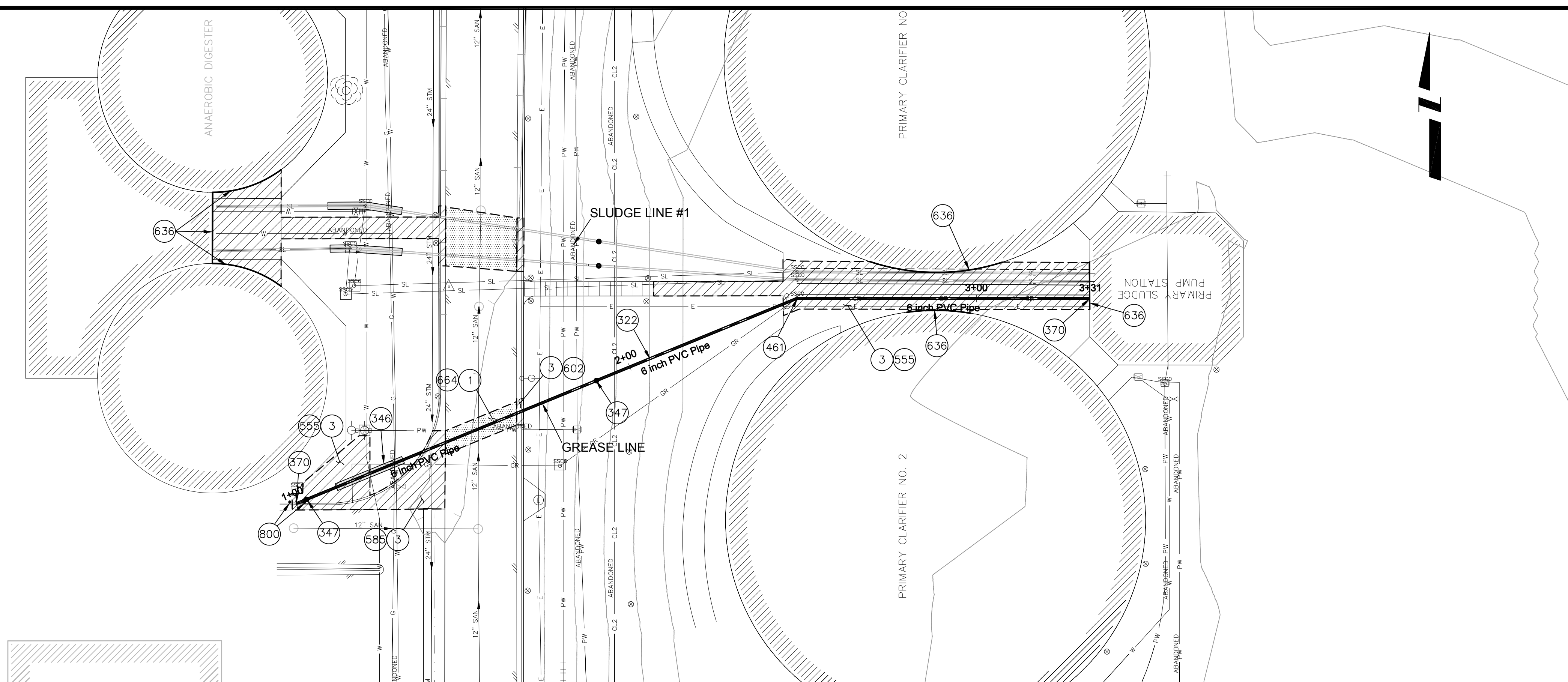


PUBLIC WORKS AND UTILITIES ENGINEERING DIVISION

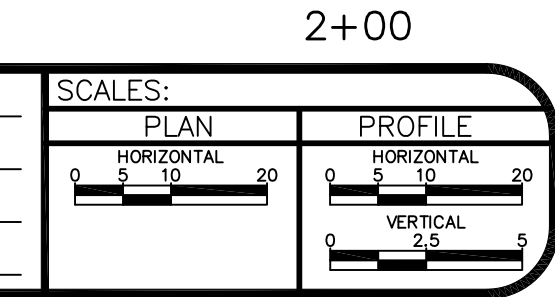
**PERSIGO LINE REPLACEMENTS
SLUDGE LINE #2 PLAN AND PROFILE
STA 1+00 TO STA 3+45**

CONSTRUCTION NOTES

- 1 202 - REMOVAL OF ASPHALT MAT. CUT AND REMOVE ASPHALT AS SHOWN. (INDICATED BY DOT HATCH PATTERN)
- 3 202 - REMOVAL OF CONCRETE. SAW CUT AND REMOVE CONCRETE TO NEAREST JOINT. (INDICATED BY CROSS HATCH PATTERN) INCLUDES BUT NOT LIMITED TO CURB, GUTTER, SIDEWALK, DRIVEWAY, SLABS, V-PAN, CURB RAMPS, INTERSECTION CORNERS, APRONS, AND LANDSCAPE BORDERS.
- 322 102.9/108.2 - 6" GRAVITY SEWER PIPE (C-900 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL AND TRACING WIRE.
- 346 102/104.3.C - ENCLOSE 6" SANITARY SEWER IN 10" C-900 CASING PIPE POLYETHYLENE CASING SPACERS REQUIRED.
- 347 INSTALL SANITARY SEWER CLEANOUT, CLEANOUT RING & COVER AND CONCRETE COLLAR (SS-07).
- 370 CONNECT NEW PIPE TO EXISTING PIPE/FITTING. SEE CONNECTION DETAIL THIS SHEET
- 461 102.8/108.3 - 6", 22½" ELBOW (MECHANICAL JOINT).
- 555 608.06 - CONCRETE SIDEWALK (4" THICK) CLASS B CONCRETE W/ 4" CLASS 6 AGGREGATE BASE COURSE COMPACTED TO 95% AASHTO T-180 METHOD A.
- 585 608.06 - CONCRETE CORNER FILLET PER CITY STANDARD DETAIL C-12.
- 602 608.06 - CONCRETE CURB AND GUTTER (2' WIDE).
- 636 INSTALL EXPANSION MATERIAL AND CAULKING.
- 664 304 - AGGREGATE BASE COURSE (CLASS 6) (12" THICK) COMPACTED TO 95% AASHTO T-180 METHOD A.
- 800 INSTALL 2 BOLLARDS TO PROTECT EXPOSED PIPE ASSEMBLY.



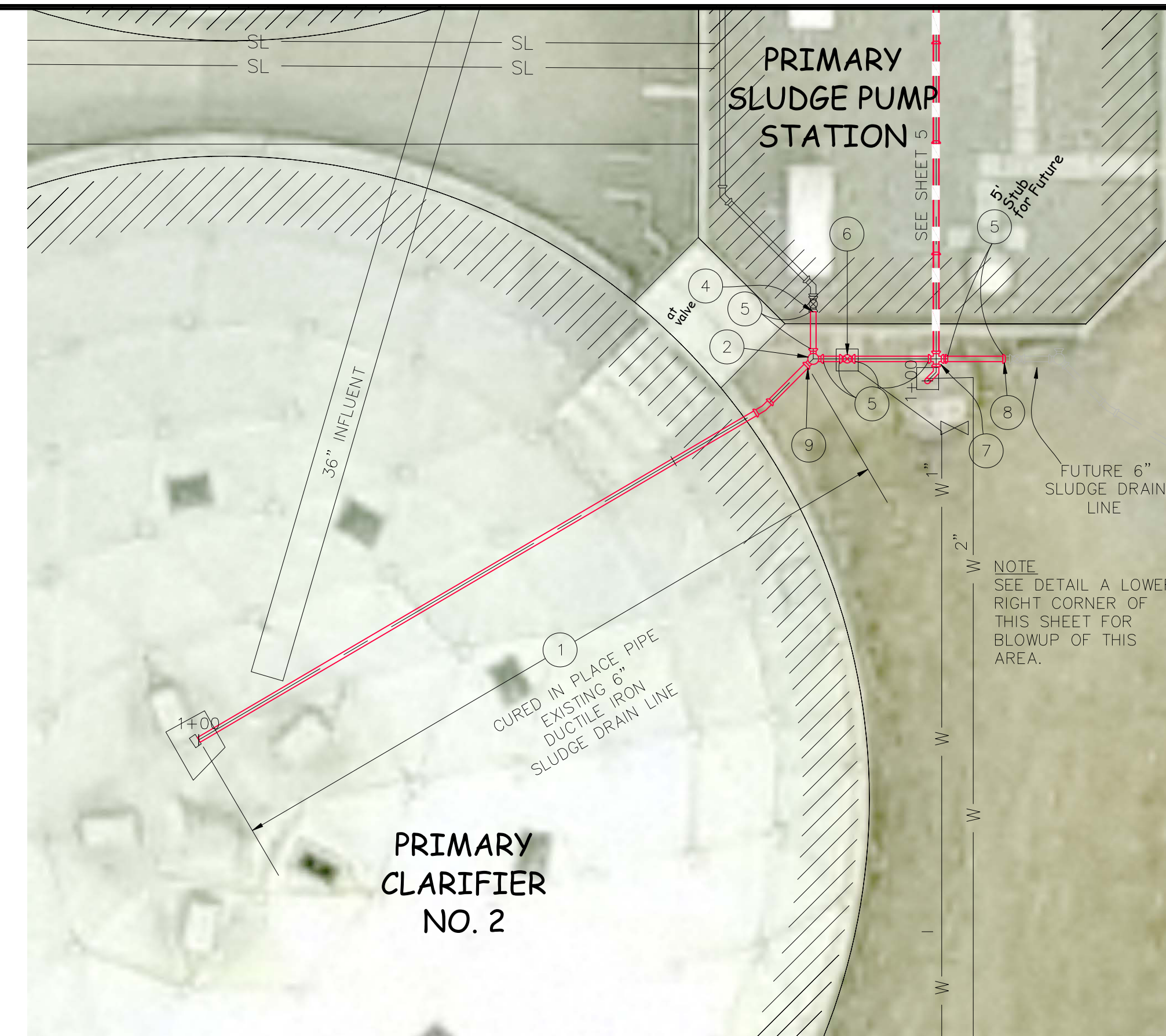
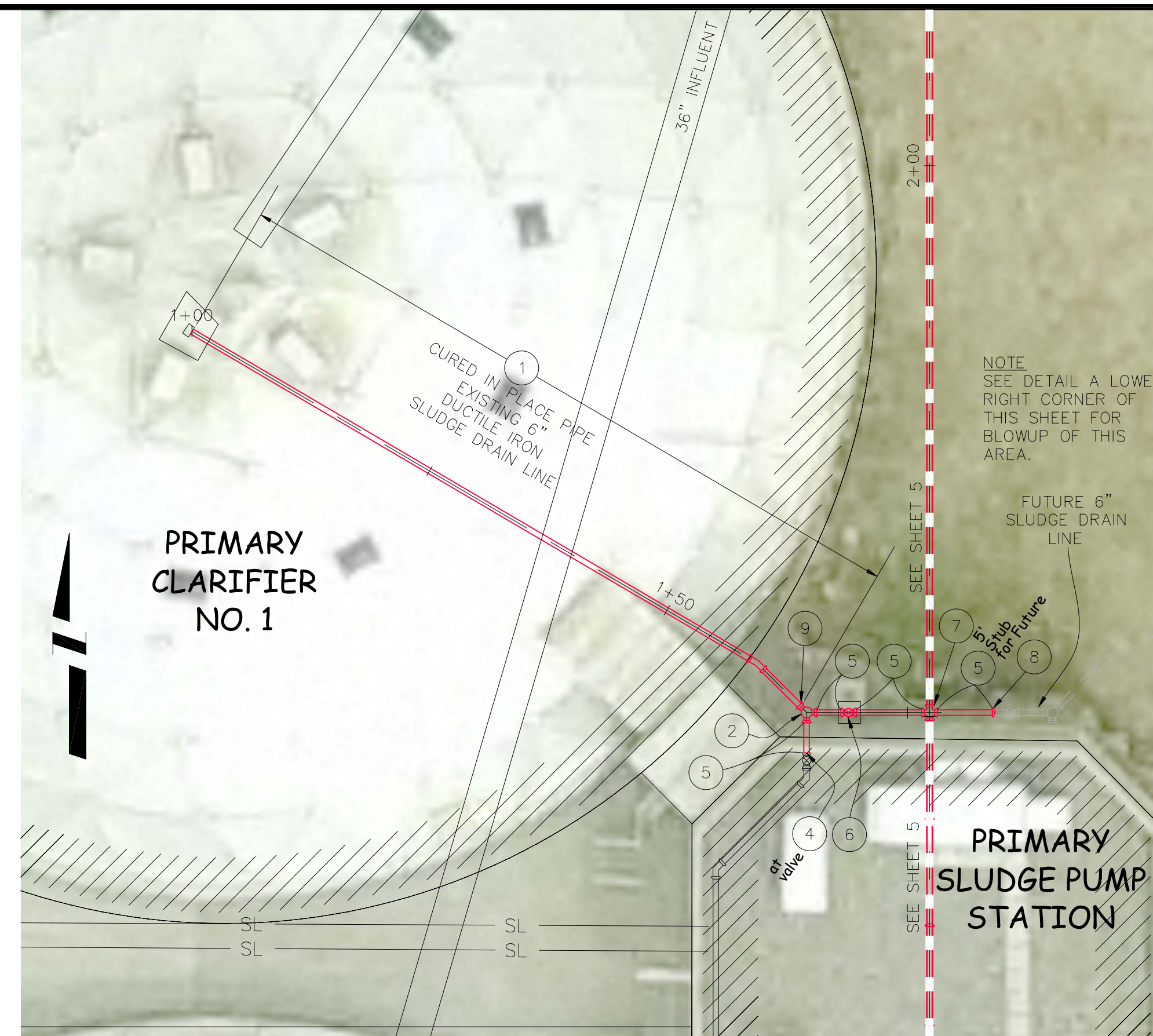
REVISION	DESCRIPTION	DATE	DRAWN BY	DATE
1			JAH	11/2008
2			JV	11/2008
3				
4				



PUBLIC WORKS AND UTILITIES ENGINEERING DIVISION

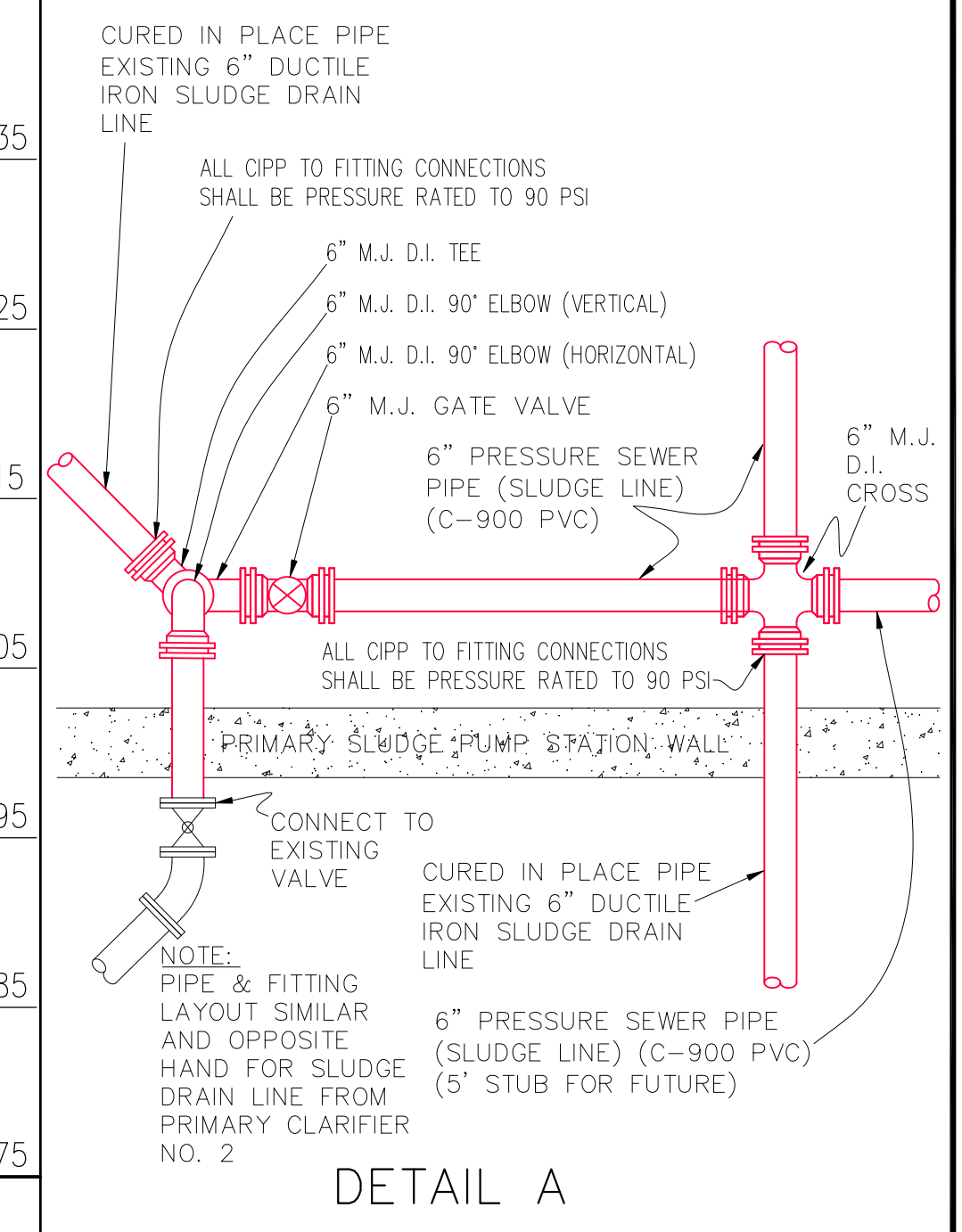
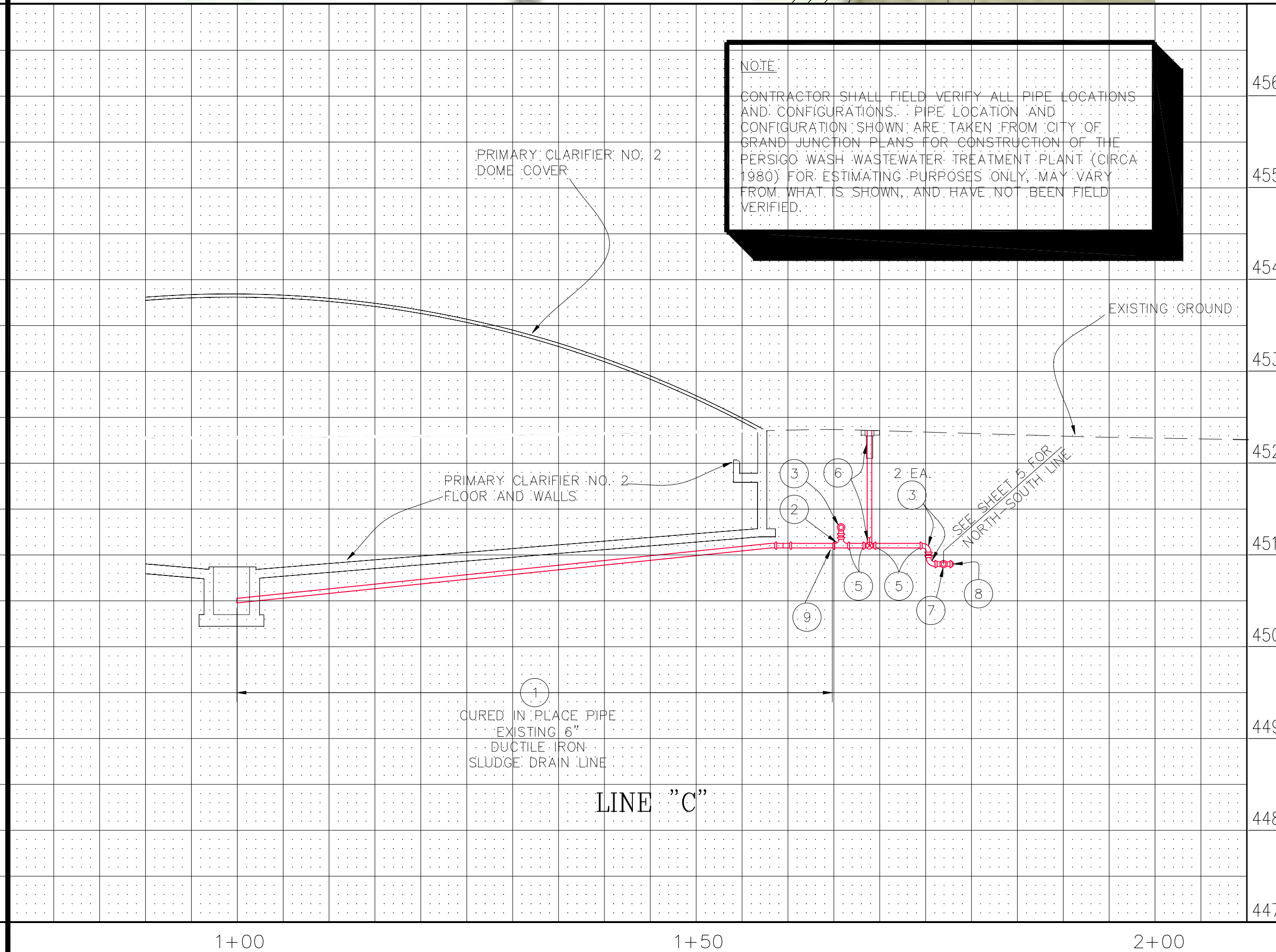
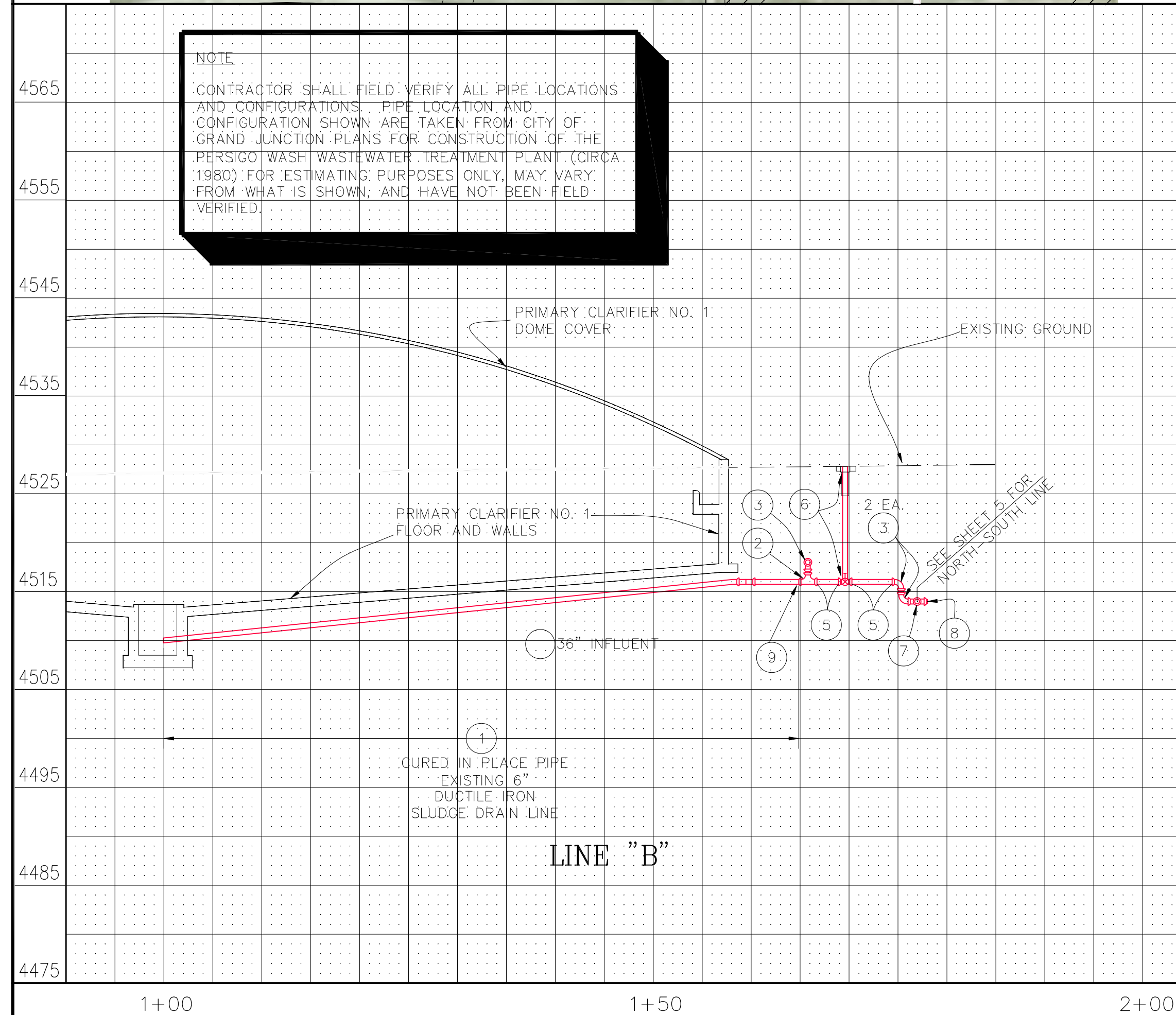
PERSIGO SLUDGE LINE REHABILITATION GREASE LINE PLAN AND PROFILE STA 1+00 TO STA 3+32

- 1 108.2 - CURED IN PLACE SANITARY SEWER PIPE PER PROJECT SPECIFICATIONS.
- 2 102.8/108.2 - REPLACE 6" M.J. D.I. TEE WITH JOINT RESTRAINTS.
- 3 102.8/108.2 - REPLACE 6" M.J. D.I. 90° ELBOW WITH JOINT RESTRAINTS.
- 4 CONNECT TO EXISTING PIPE. THE CONTRACT UNIT PRICE FOR 6" C-900 PVC SLUDGE LINE SHALL INCLUDE THE COST OF ALL CONNECTIONS TO EXISTING PIPES.
- 5 102.9/108.2 - 6" PRESSURE SEWER PIPE (SLUDGE LINE) (C-900 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
- 6 102.8/108.2 - NEW 6" M.J. GATE VALVE WITH JOINT RESTRAINTS, VALVE BOX, AND CONCRETE COLLAR.
- 7 102.8/108.2 - REPLACE 6" M.J. D.I. CROSS WITH JOINT RESTRAINTS.
- 8 102.8/108.2 - REPLACE 6" M.J. D.I. PLUG.
- 9 ALL CIPP TO FITTING CONNECTIONS SHALL BE PRESSURE RATED TO 90 PSI

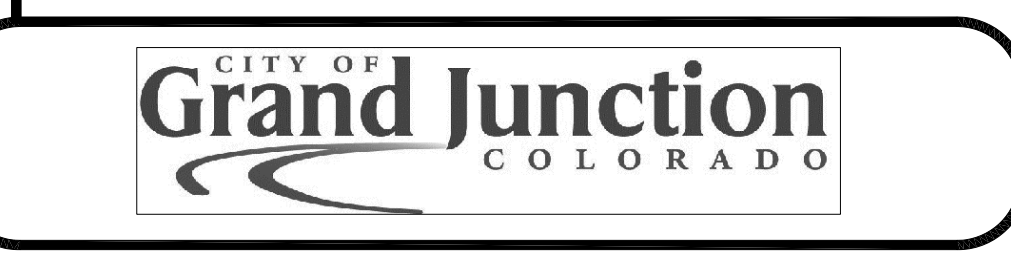


NOTE
 CONTRACTOR SHALL FIELD VERIFY ALL PIPE LOCATIONS AND CONFIGURATIONS. PIPE LOCATION AND CONFIGURATION SHOWN ARE TAKEN FROM CITY OF GRAND JUNCTION PLANS FOR CONSTRUCTION OF THE PERSIGO WASH WASTEWATER TREATMENT PLANT (CIRCA 1980) FOR ESTIMATING PURPOSES ONLY, MAY VARY FROM WHAT IS SHOWN, AND HAVE NOT BEEN FIELD VERIFIED.

NOTE
 CONTRACTOR SHALL FIELD VERIFY ALL PIPE LOCATIONS AND CONFIGURATIONS. PIPE LOCATION AND CONFIGURATION SHOWN ARE TAKEN FROM CITY OF GRAND JUNCTION PLANS FOR CONSTRUCTION OF THE PERSIGO WASH WASTEWATER TREATMENT PLANT (CIRCA 1980) FOR ESTIMATING PURPOSES ONLY, MAY VARY FROM WHAT IS SHOWN, AND HAVE NOT BEEN FIELD VERIFIED.



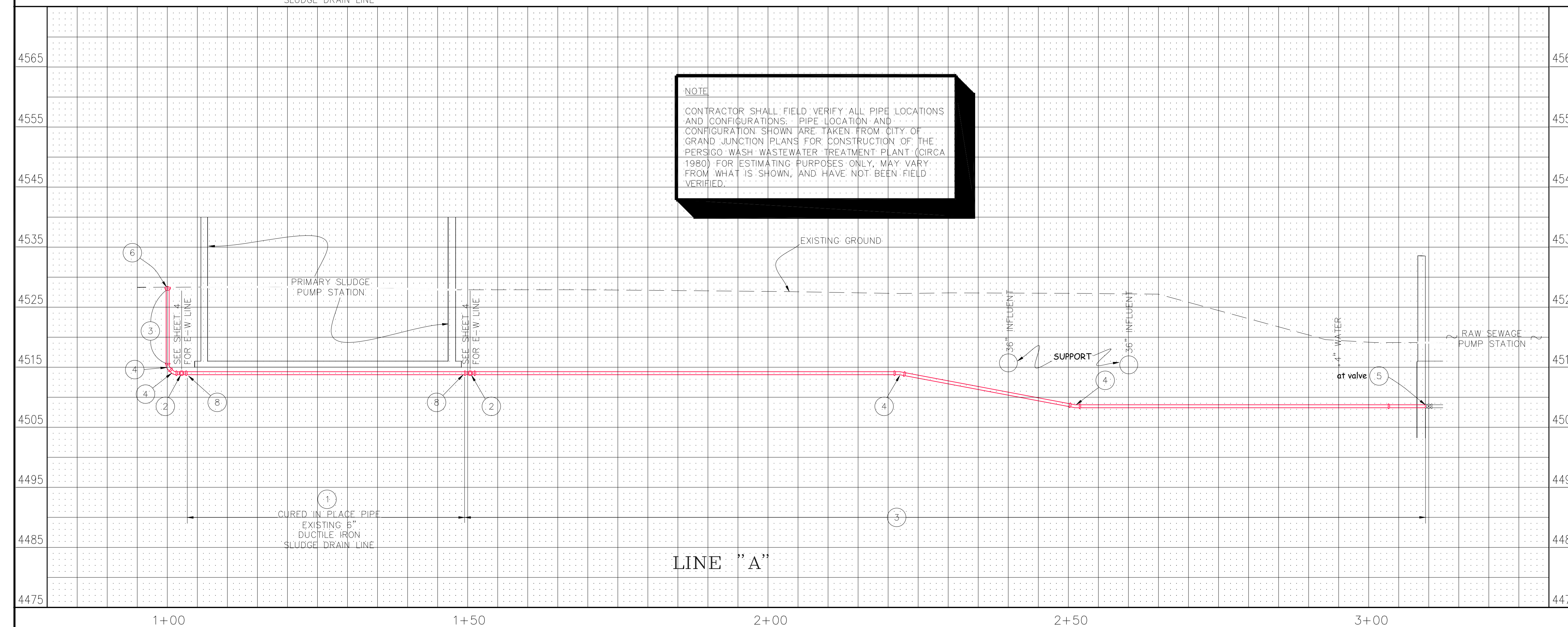
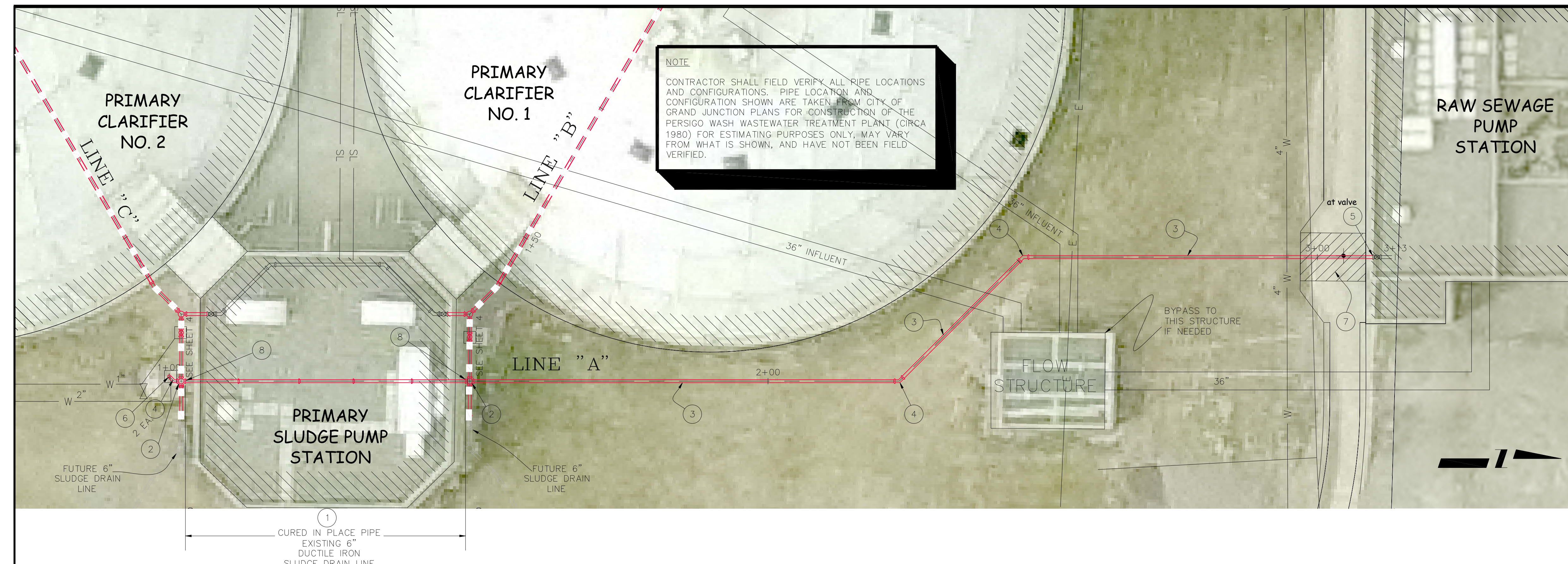
REVISION	DESCRIPTION	DATE	DRAWN BY	DATE	SCALES:
REVISION			JCS	2009	PLAN: HORIZONTAL 1"=20'
REVISION					PROFILE: HORIZONTAL 1"=10'
REVISION					VERTICAL 1"=2.5'



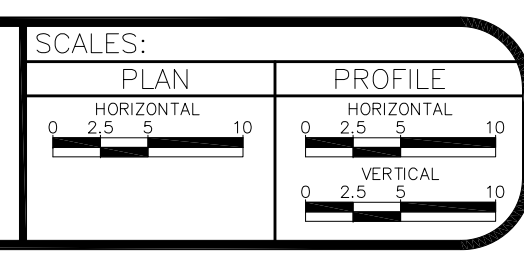
PUBLIC WORKS AND UTILITIES ENGINEERING DIVISION

Persigo Sludge Line Rehabilitation
 Sanitary Sewer Plan and Profiles Persigo Wash Wastewater Treatment Plant

- 1 108.2 - CURED IN PLACE SANITARY SEWER PIPE PER PROJECT SPECIFICATIONS.
- 2 102.8/108.2 - REPLACE 6" M.J. D.I. CROSS WITH JOINT RESTRAINTS.
- 3 102.9/108.2 - 6" PRESSURE SEWER PIPE (SLUDGE LINE) (C-900 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
- 4 102.8/108.2 - REPLACE EXISTING 6" M.J. D.I. 45° ELBOW WITH JOINT RESTRAINTS. (MINIMUM 1 PIPE JOINT EACH SIDE OF FITTING)
- 5 CONNECT TO EXISTING PIPE. THE CONTRACT UNIT PRICE FOR 6" C-900 PVC SLUDGE LINE SHALL INCLUDE THE COST OF ALL CONNECTIONS TO EXISTING PIPES.
- 6 102.9/108.2 - REPLACE CLEAN OUT RING, COVER, AND CONCRETE COLLAR.
- 7 202.0/608.0 SAWCUT, REMOVE, AND REPLACE EXISTING CONCRETE IN KIND AS SHOWN TO FACILITATE SLUDGE LINE REPLACEMENT.
- 8 ALL CIPP TO FITTING CONNECTIONS SHALL BE PRESSURE RATED TO 90 PSI



REVISION	DESCRIPTION	DATE	DRAWN BY	DATE
			JCS	2009
			DESIGNED BY	DATE
			CHECKED BY	DATE
			APPROVED BY	DATE



**PUBLIC WORKS
AND UTILITIES
ENGINEERING DIVISION**

Persigo Sludge Line Rehabilitation
Sanitary Sewer Plan and Profiles Persigo Wash
Wastewater Treatment Plant