The Enclosed Document Is Provided For Your Convenience.

Please Email ALL Questions:

MailTo:ContractAdministration@TampaGov.net

Please Let Us Know If You Plan To Bid

City of Tampa
Contract Administration Department
306 E. Jackson St. #280A4N
Tampa, FL 33602
(813)274-8456

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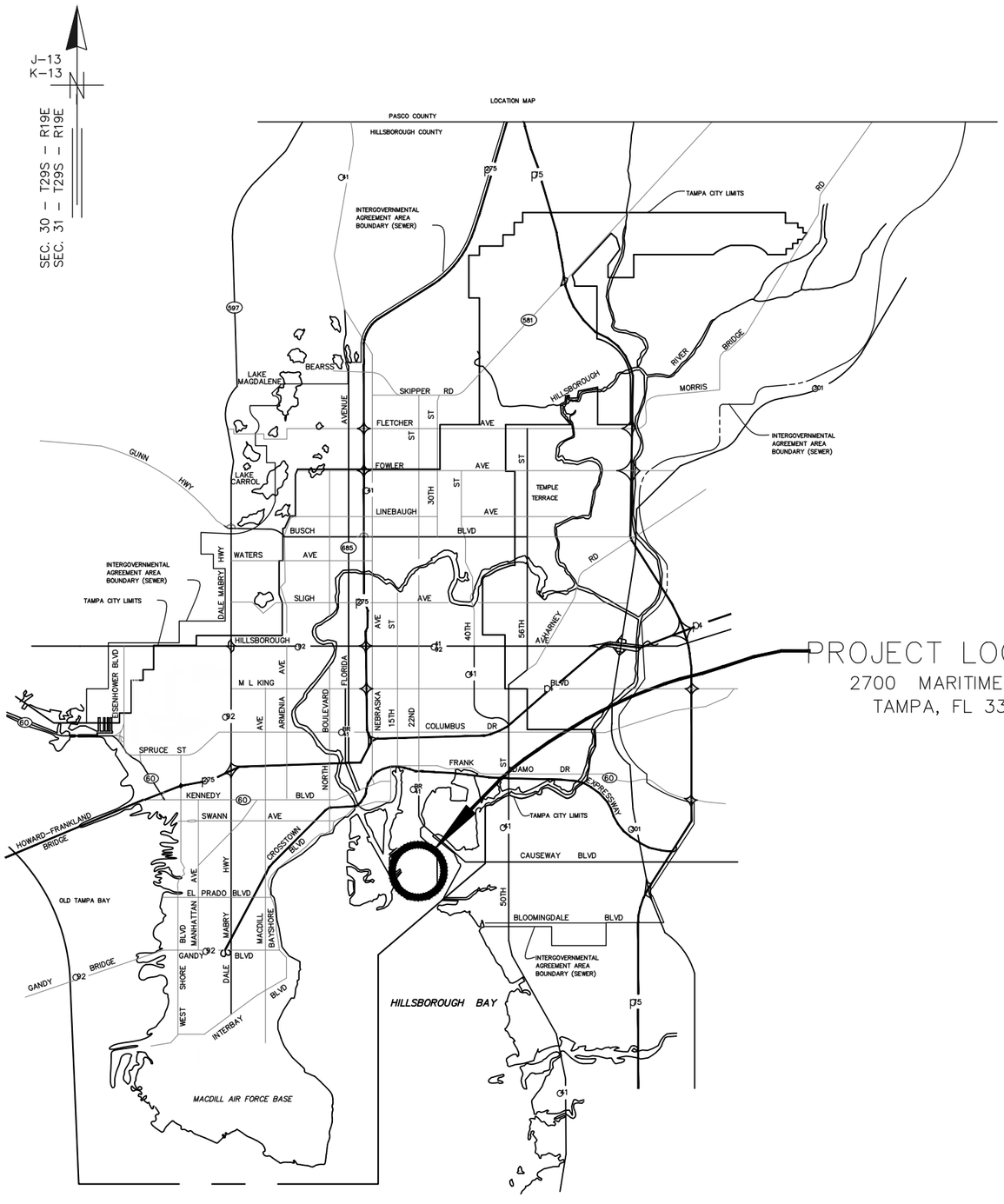

PROJECT LOCATION
2700 MARITIME BLVD.
TAMPA, FL 33605

CITY of TAMPA

CITY OF TAMPA FLORIDA
MASCOTTE
ORGANIZED JULY 15 1887

WASTEWATER DEPARTMENT

PLANS FOR

HOWARD F. CURREN AWTP FINAL SEDIMENTATION TANKS AIR PIPING IMPROVEMENTS

CONTRACT: 17-C-00011

	No.	DATE	REVISIONS				
JACINTO CARLOS FERRAS, P.E. #49454 DESIGN DIVISION HEAD WASTEWATER DEPARTMENT	3			DES: KJG DRN: MRL CKD: DATE:	CITY of TAMPA WASTEWATER DEPARTMENT	HOWARD F. CURREN AWTP FINAL SEDIMENTATION TANKS AIR PIPING IMPROVEMENTS COVER SHEET	SHEET 1
	2						
	1						

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Layout: Aug 07, 2017 - 3:37pm CTB - WW-TOSHIBA.CTB

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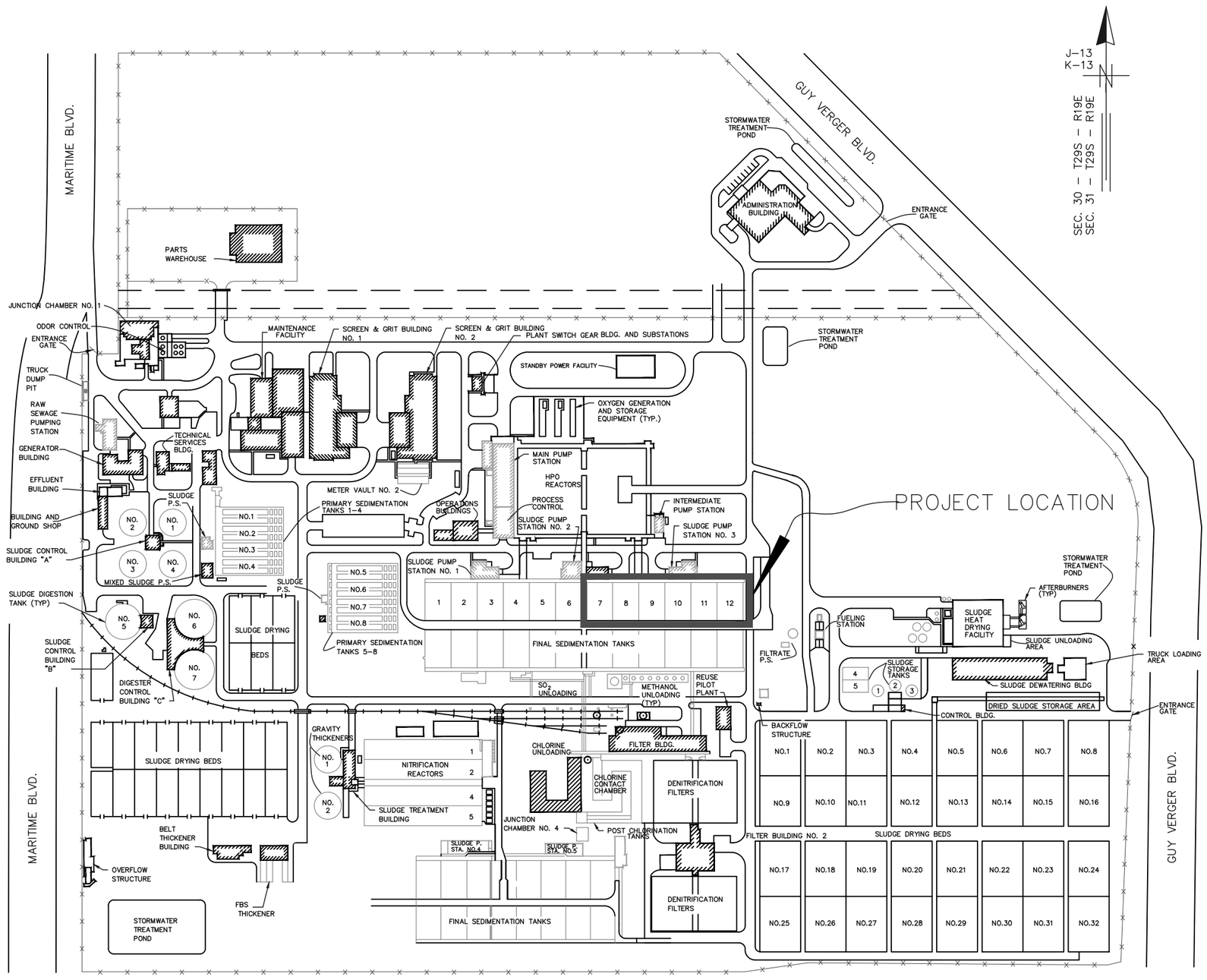

J-13
K-13

SEC. 30 - T29S - R19E
SEC. 31 - T29S - R19E

CITY OF TAMPA
HOWARD F. CURREN
ADVANCED WASTEWATER
TREATMENT PLANT

2700 MARITIME BLVD.
TAMPA, FL 33605
(813) 247-3451
FAX: (813) 248-5269

INDEX OF DRAWINGS

SHEET #	TITLE
1	COVER SHEET
2	PROJECT LOCATION MAP AND INDEX
3	GENERAL NOTES AND TABLE
4	FINAL SEDIMENTATION TANKS PLAN VIEW
5	INFLUENT CHANNEL AIR PIPING PROPOSED PLAN & SECTION (1)
6	INFLUENT CHANNEL AIR PIPING PROPOSED PLAN & SECTION (2)
7	MISCELLANEOUS DETAILS (1)
8	MISCELLANEOUS DETAILS (2)

JACINTO CARLOS FERRAS, P.E.
#49454 DESIGN DIVISION HEAD
WASTEWATER DEPARTMENT

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HOWARD F. CURREN AWTP FINAL SEDIMENTATION TANKS AIR PIPING IMPROVEMENTS

PROJECT LOCATION MAP AND INDEX

SHEET 2

User: ssok Drawing name: K:\Wastewater Projects\HFC AWTP Final Sedimentation Tanks Process Air Piping Replacement\Drawing\Cad\Layout-1\Layout-1.dwg
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GENERAL NOTES

1. CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION ACTIVITIES WITH TREATMENT PLANT PERSONNEL AND PLANT OPERATIONS.
2. EXISTING DIMENSIONS AND ELEVATIONS ARE BASED ON THE BEST INFORMATION AVAILABLE. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING TRUE DIMENSIONS AND ELEVATIONS IN THE FIELD PRIOR TO LAYOUT AND SHOP DRAWING SUBMITTALS.
3. ALL SUBMITTALS AND SHOP DRAWINGS SHALL BE ORIGINALS OR HIGH QUALITY COPIES (EASILY READABLE). NO FAXED SHEETS OR POOR COPIES WILL BE ACCEPTED FOR SUBMITTAL REVIEW.
4. IT IS THE ENGINEER'S INTENT THAT ALL WORK INVOLVED IN THIS PROJECT WILL BE PERFORMED WHILE SEDIMENTATION TANKS ARE OFF-LINE AND DRAINED.
5. AWTP PERSONNEL SHALL BE RESPONSIBLE FOR DRAINING SEDIMENTATION TANKS. CONTRACTOR SHALL PROVIDE A MINIMUM OF FIVE WORKING DAYS NOTICE (IN WRITING) BEFORE HAVING AWTP PERSONNEL DRAIN A TANK.
6. CONTRACTOR SHALL REPLACE EXISTING 4", 6", 8", 10" AND 12" STEEL PROCESS AIR HEADER PIPE AND FITTINGS AT THE INFLUENT CHANNEL OF SEDIMENTATION TANKS 7 THRU 12 WITH SCHEDULE 40 TYPE 316 STAINLESS STEEL (316L SS). PROCESS AIR HEADER PIPE SHALL BE LABELED PROCESS AIR INCLUDING DIRECTIONAL FLOW ARROWS AS SPECIFIED. PAINTING OF STAINLESS STEEL PIPING IS NOT REQUIRED.
7. CONTRACTOR SHALL REPLACE STAINLESS STEEL PIPE REPAIR CLAMPS AT THE INFLUENT CHANNEL OF SEDIMENTATION TANKS 7 THRU 12 WITH 316 STAINLESS STEEL SLEEVE TYPE COUPLINGS. A TOTAL OF 17 SLEEVE TYPE COUPLINGS (VARIOUS SIZES) AND (1) 12" HARNESSED SLEEVE TYPE COUPLING WILL BE REQUIRED.
8. CONTRACTOR SHALL REPLACE EXISTING (25) PIPE ANCHORS WITH 316L STAINLESS STEEL PIPE ANCHORS – VARIOUS SIZES. (SEE TABLE 1 AND DETAILS)
9. CONTRACTOR SHALL REPLACE AN EXISTING 12" BUTTERFLY VALVE AS DESIGNATED ON THE PLANS. BUTTERFLY VALVE SHALL BE DEZURIK BAW OR APPROVED EQUAL. VALVE SHALL BE PROVIDED WITH A MANUAL HANDWHEEL OPERATOR. REPLACEMENT OF THIS VALVE WILL REQUIRE PROCESS AIR SHUTDOWN. DURATION OF SHUTDOWN SHALL BE MINIMIZED AND A MINIMUM OF FIVE WORKING DAYS NOTICE IS REQUIRED.
10. CONTRACTOR SHALL REPLACE EXISTING 4" SUMP PUMP DISCHARGE AND FLANGE WITH SCHEDULE 40 TYPE 316 STAINLESS STEEL AT LOCATION SHOWN ON PLANS.
11. ALL HARDWARE, UNLESS OTHERWISE NOTED, SHALL BE TYPE 316 STAINLESS STEEL.
12. THE UPPER DECK OF THE SEDIMENTATION TANKS SHALL BE KEPT CLEAN OF MATERIALS AND DEBRIS AT ALL TIMES. WALKWAYS AND DRIVEWAY SHALL BE KEPT CLEAR FOR AWTP PERSONNEL TO PASS THROUGH.
13. EXISTING STAINLESS STEEL PIPE REPAIR CLAMPS SHALL BE SALVAGED AND DELIVERED TO THE PARTS WAREHOUSE LOCATED ON THE TREATMENT PLANT SITE. NON-SALVAGEABLE MATERIALS ARE TO BE REMOVED FROM THE SITE AND PROPERLY DISPOSED OF AT THE CONTRACTOR'S EXPENSE.
14. OSHA STANDARD SAFETY EQUIPMENT SUCH AS SAFETY HARNESSES, GAS MONITORS, LOWER EXPLOSIVE LIMIT (LEL) DETECTORS, BREATHING APPARATUS, ETC. SHALL BE UTILIZED WHERE THE WORK DICTATES THEIR USE.
15. NORMAL WORKING HOURS SHALL BE WEEKDAYS FROM 7:30 AM TO 4 PM UNLESS OTHERWISE APPROVED BY THE ENGINEER/INSPECTOR.

TABLE 1. AIR PIPING, SLEEVE TYPE COUPLINGS AND PIPE ANCHORS SCHEDULE

PIPE DIAMETER	SLEEVE TYPE COUPLINGS REQUIRED	APPROXIMATE LENGTH OF PIPE REQUIRED	PIPE ANCHORS REQUIRED
4"	1	70'	1
6"	4	80'	6
8"	4	120'	7
10"	4	110'	4
12"	4 1 HARNESSED	90'	7

NOTES:

A. REFER TO SHEET 7 FOR PIPE ANCHOR DETAILS.
B. REFER TO SHEET 8 FOR HARNESSED SLEEVE TYPE COUPLING DETAILS.
C. EXISTING AIR PIPING TO BE REPLACED IS SUPPORTED BY STAINLESS STEEL PIPE SUPPORTS AT VARIOUS LOCATIONS. CONTRACTOR SHALL RE-USE THESE EXISTING SUPPORTS.

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JACINTO CARLOS FERRAS, P.E.
#49454 DESIGN DIVISION HEAD
WASTEWATER DEPARTMENT

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DES: KJG
DRN: MRL
CKD:
DATE:

CITY of TAMPA
WASTEWATER DEPARTMENT

HOWARD F. CURREN AWTP FINAL SEDIMENTATION TANKS AIR PIPING IMPROVEMENTS

GENERAL NOTES AND TABLE

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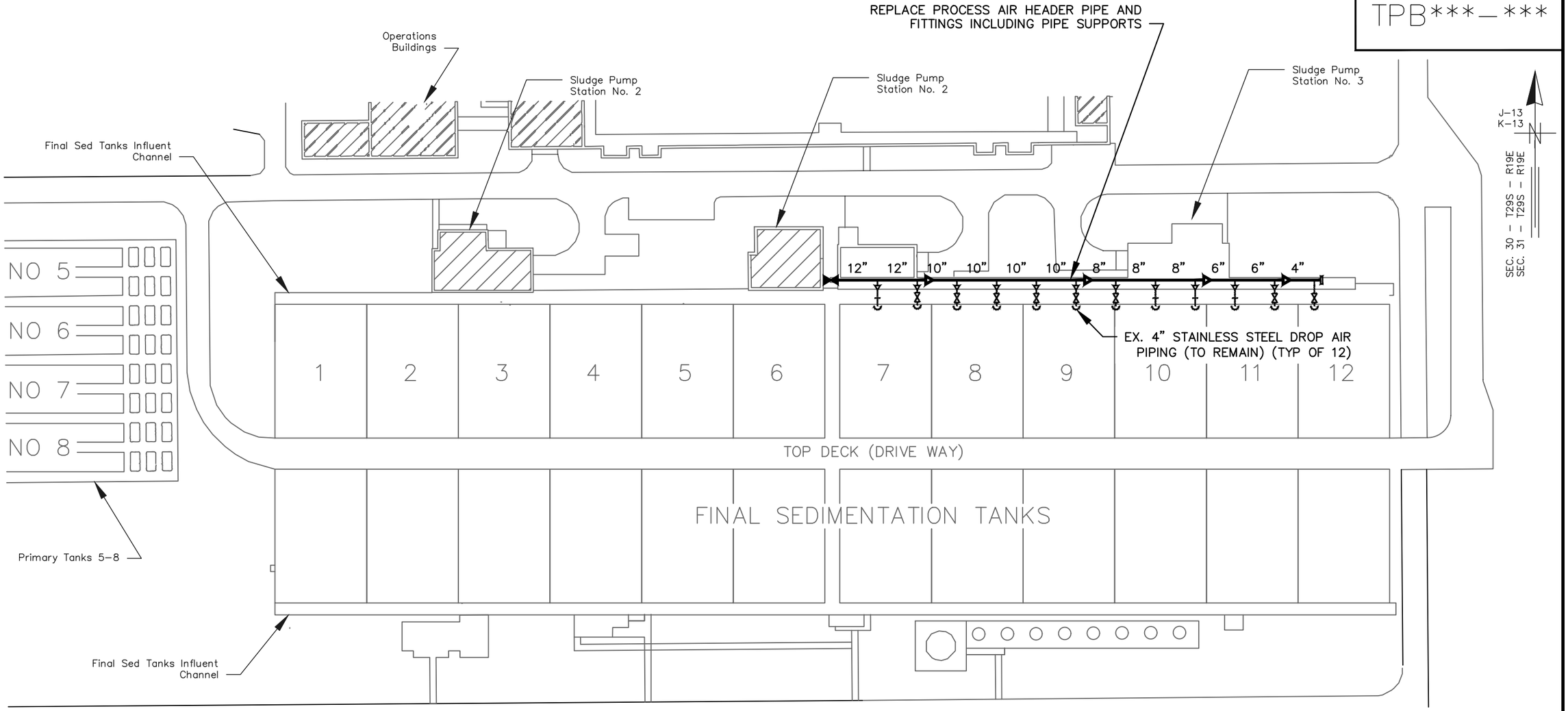

PLAN VIEW
N.T.S.

LEGEND

- PROPOSED BUTTERFLY VALVE
- EXISTING BUTTERFLY VALVE (TO REMAIN)
- PROPOSED REDUCER
- EXISTING 4" 90° BEND DROP PIPE (TO REMAIN)

No.	DATE	REVISIONS
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WASTEWATER DEPARTMENT

HOWARD F. CURREN AWTP FINAL SEDIMENTATION TANKS AIR PIPING IMPROVEMENTS

FINAL SEDIMENTATION TANKS PLAN VIEW

SHEET 4

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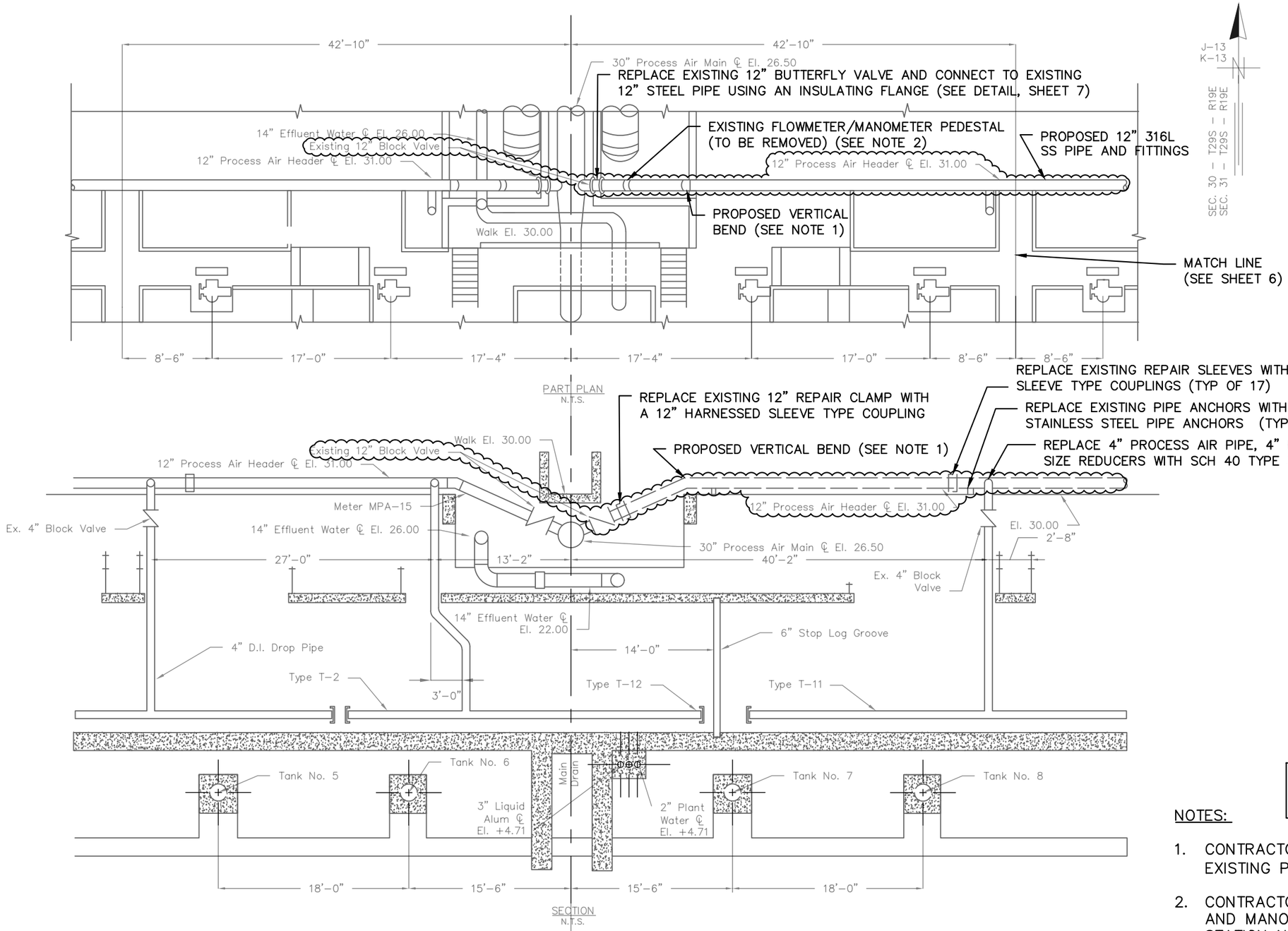

PROPOSED WORK IS SHOWN CLOUDED WITH BOLD TEXT ON THIS SHEET

NOTES:

1. CONTRACTOR SHALL MITER CUT PIPE TO MATCH EXISTING PIPE ANGLE (APPROX. 22½°)
2. CONTRACTOR SHALL REMOVE EXISTING FLOWMETER AND MANOMETER PEDESTAL AT THE SLUDGE PUMPING STATION NO. 2. CONCRETE SURFACE SHALL BE GROUND BACK TO A SMOOTH CONCRETE SURFACE.

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HOWARD F. CURREN AWTP FINAL SEDIMENTATION TANKS AIR PIPING IMPROVEMENTS

INFLUENT CHANNEL AIR PIPING PROPOSED PLAN & SECTION (1)

SHEET 5

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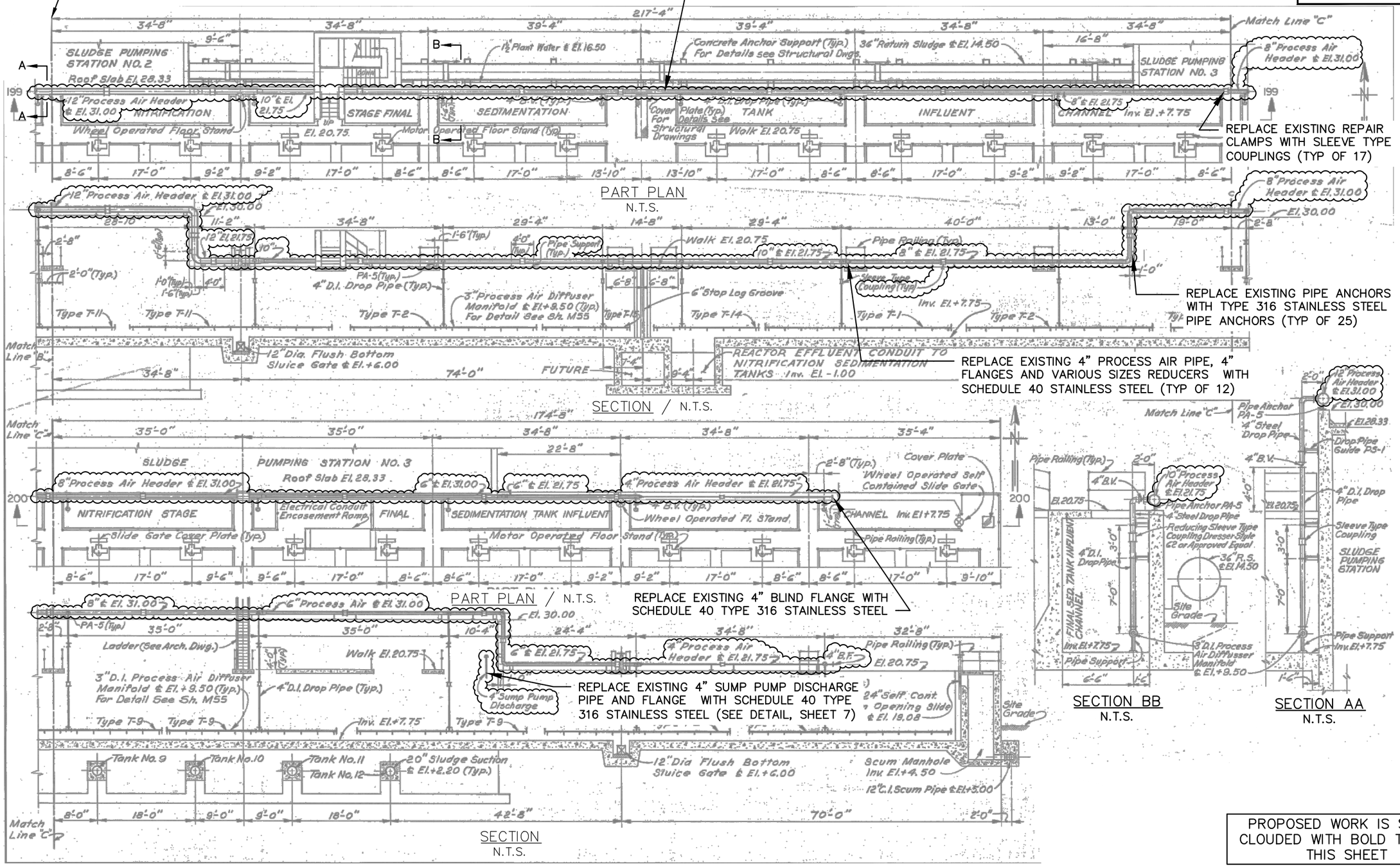

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HOWARD F. CURREN AWTP FINAL SEDIMENTATION TANKS AIR PIPING IMPROVEMENTS

INFLUENT CHANNEL AIR PIPING PROPOSED PLAN & SECTION (2)

SHEET 6

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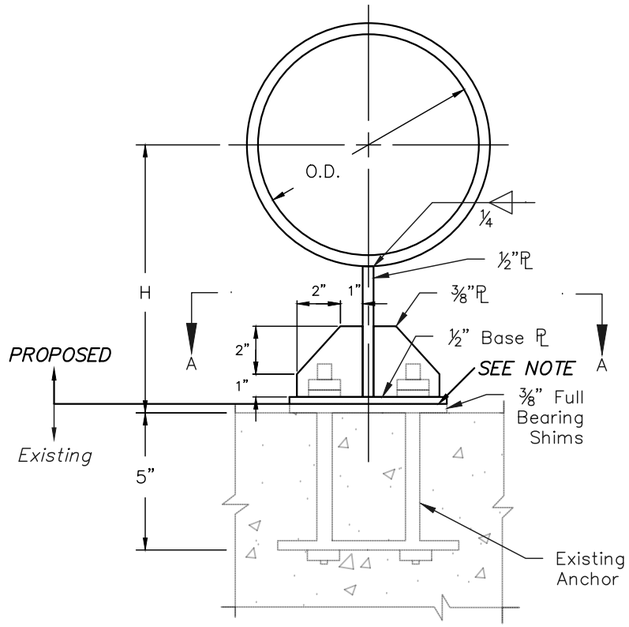
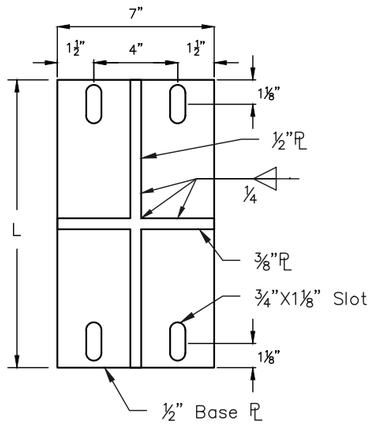




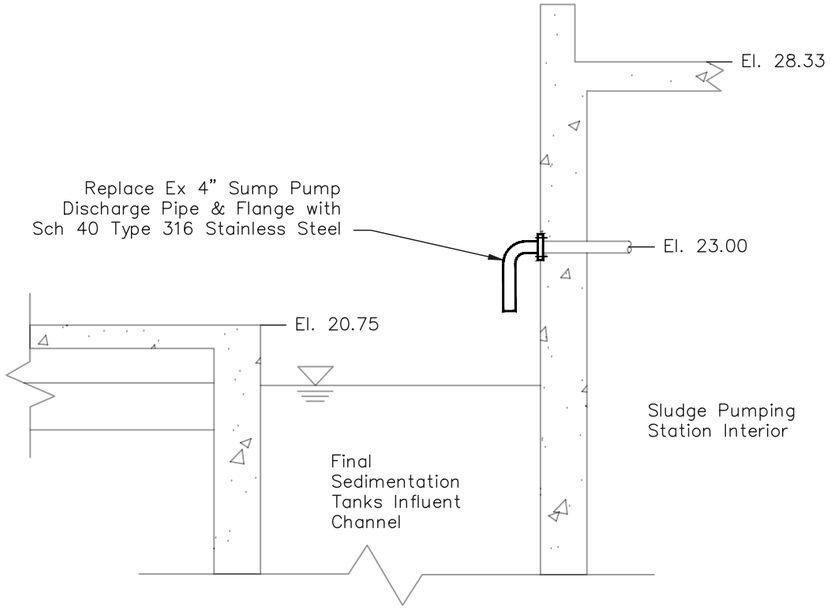
SECTION A–A

PIPE ANCHOR SCHEDULE		
PIPE O.D.	H	L
4.5	1'–0"	6"
6.625	1'–0"	6"
8.625	1'–0"	8"
10.75	1'–0"	1'–1"
12.75	1'–0"	1'–3"

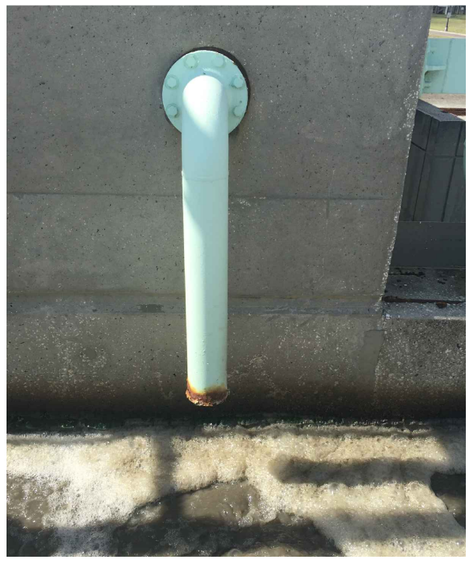
NOTE: INSTALL INSULATING GASKET (NEOPRENE) BETWEEN EXISTING STEEL PLATE AND NEW STAINLESS STEEL PIPE ANCHOR TO PREVENT DISSIMILAR METAL CONTACT

PROPOSED STAINLESS STEEL (316L) PIPE ANCHOR
N.T.S.

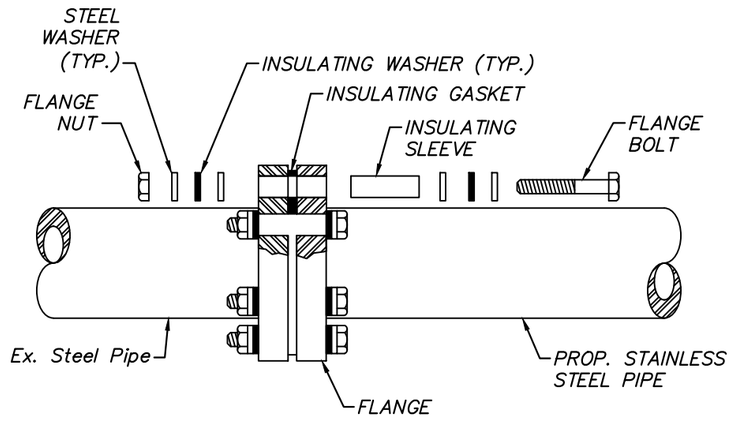
EXISTING PIPE ANCHOR



SUMP PUMP DISCHARGE
N.T.S.



EXISTING SUMP PUMP DISCHARGE



INSULATING FLANGE
N.T.S.

	No.	DATE	REVISIONS			
JACINTO CARLOS FERRAS, P.E. #49454 DESIGN DIVISION HEAD WASTEWATER DEPARTMENT	3			DES: KJG DRN: MRL CKD: DATE:	CITY of TAMPA WASTEWATER DEPARTMENT	HOWARD F. CURREN AWTP FINAL SEDIMENTATION TANKS AIR PIPING IMPROVEMENTS MISCELLANEOUS DETAILS (1)	SHEET 7
	2						
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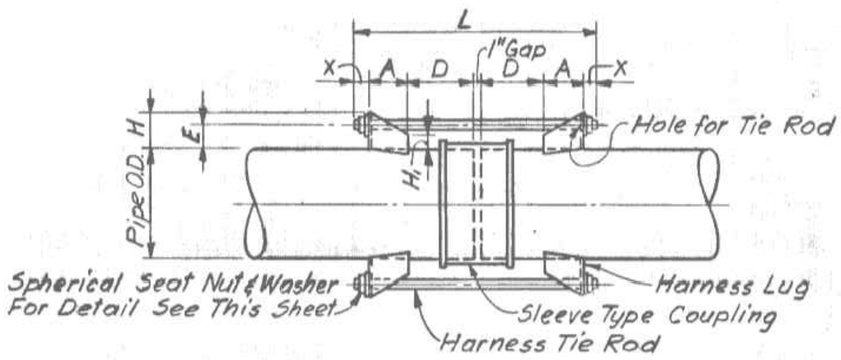
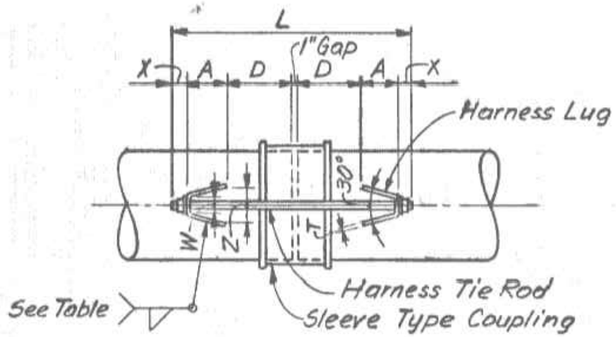
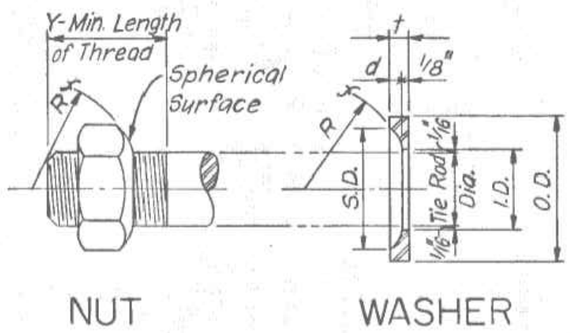




TYPE A HARNESSED SLEEVE TYPE COUPLING JOINT FOR STAINLESS STEEL PIPE – SCHEDULE																			
NORMAL PIPE SIZE	WALL THICK–NESS	O.D. OF PIPE	MAX PRESS. FOR HARNESS TIE ROD P.S.I.	MIDDLE RING		HARNESS TIE ROD				HARNES LUG MINIMUM DIMENSION										COUPLING SERVICE
				LENGTH	THICKNESS	NO.	DIA.	X	L	A	WE	Z	T	E	H	H1	D	HOLE	WELD	
12	0.406	12.750	70	7	0.313	2	0.625	1.125	26.250	3	1.25	2.875	0.375	3	3.875	2	8.5	0.75	0.25	PROCESS AIR

Note: All Dimensions In Inches

TYPE A HARNESSED
SLEEVE
N.T.S.



TIE ROD DIA	THD./IN.	ID	OD	SD	R	D	T	Y MIN. THREAD LENGTH
5/8	11	3/4	1 1/2	1 3/8	1 1/16	3/16	5/16	1 7/8

HARNESS TIE ROD SPHERICAL
NUT AND WASHER
N.T.S.

EXISTING STAINLESS STEEL PIPE REPAIR CLAMP
N.T.S.

NOTES:

1. ALL SS REPAIR CLAMPS (AS PICTURED) SHALL BE REPLACED WITH 316SS SLEEVE TYPE COUPLINGS.
2. THERE IS 1–12" SS REPAIR CLAMP THAT WILL NEED TO BE REPLACED WITH 316SS TYPE A HARNESSED SLEEVE TYPE COUPLING AS DETAILED.
3. ALL SLEEVE TYPE COUPLINGS AND HARNESSING HARDWARE SHALL BE 316SS.

JACINTO CARLOS FERRAS, P.E. #49454
DESIGN DIVISION HEAD
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HOWARD F. CURREN AWTP FINAL SEDIMENTATION
TANKS AIR PIPING IMPROVEMENTS

MISCELLANEOUS DETAILS (2)

SHEET 8

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