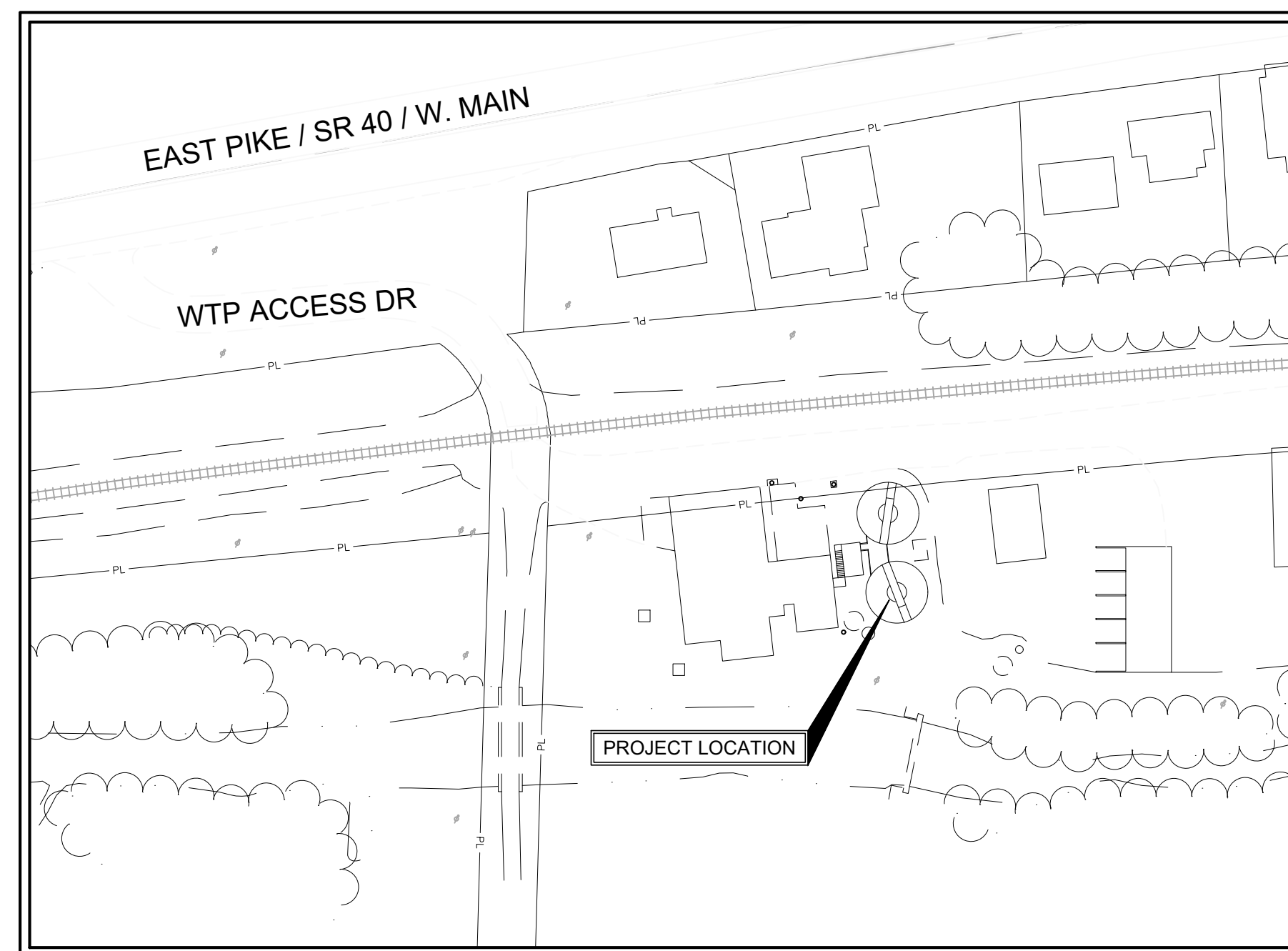
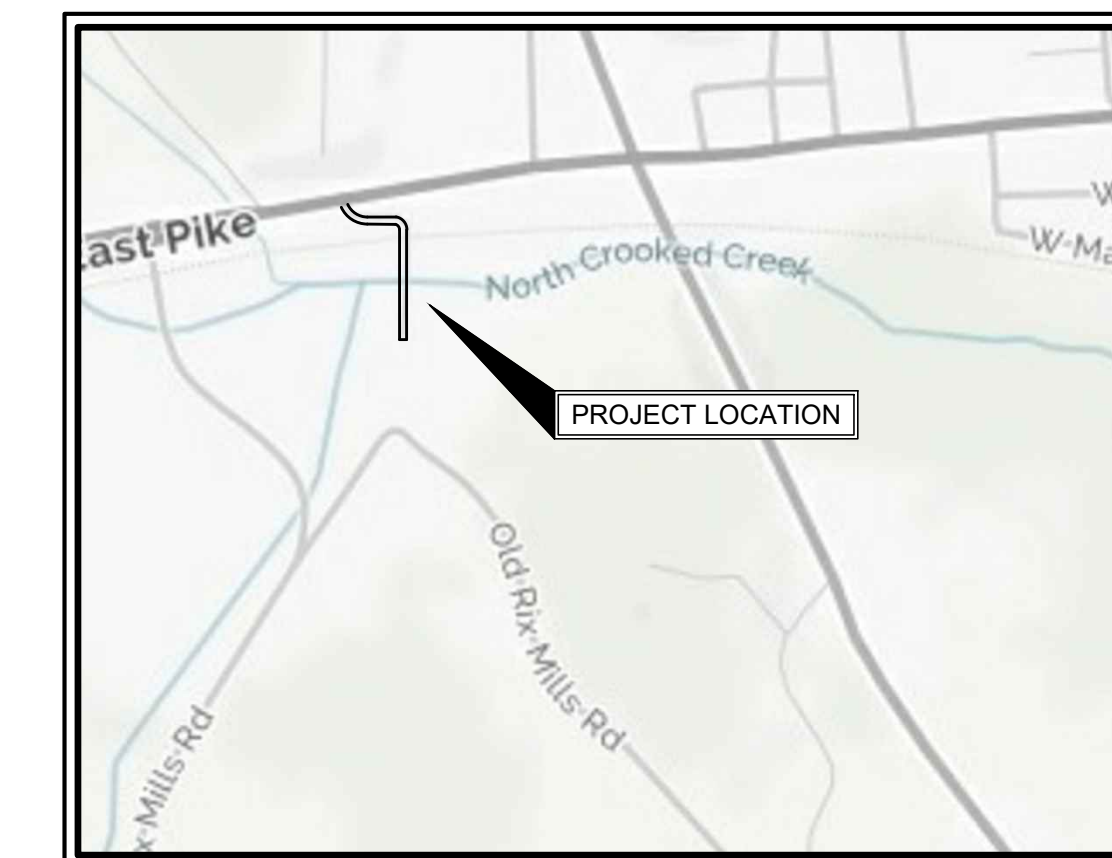


NEW CONCORD WTP CLARIFIER REHABILITATION

VILLAGE OF NEW CONCORD MUSKINGUM COUNTY, OHIO 2020



LOCATION MAP
NOT TO SCALE



VICINITY MAP
NOT TO SCALE

Sheet List Table		
Sheet Number	Sheet Title	Drawing Name
1	TITLE SHEET	G-01
2	SITE PLAN	C-01
3	CLARIFIER PLAN	D-01
4	CLARIFIER SECTION	D-02
5	CLARIFIER DETAILS	D-03

ADMINISTRATION:

JENNIFER LYLE MAYOR
 CHARLOTTE COLLEY VILLAGE ADMINISTRATOR
 LYNN MARLATT FISCAL OFFICER

COUNCIL:

ROBERT DICKSON PRESIDENT
 STEVE WOOTTON MEMBER
 KRISTI KEARNS MEMBER
 SCOTT SABINO MEMBER
 LEVI SHEGOG MEMBER
 BOB BAIER MEMBER



APPROVED BY:

[Signature] 5-4-2020
 CHARLOTTE COLLEY, VILLAGE ADMINISTRATOR DATE
[Signature] 5-4-2020
 CHRIS HUEBNER, UTILITIES SUPERINTENDENT DATE

ENGINEER:

CT CONSULTANTS, INC.
 7965 NORTH HIGH STREET, SUITE 340
 COLUMBUS, OHIO 43235

(614) 885-1700 PHONE
 (614) 885-1701 FAX

[Signature] 4/29/2020
 DANIEL E. BARR P.E. No. 64544 DATE

- UNDERGROUND BUILDING SERVICE UTILITY LINES ARE NOT SHOWN ON THE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING, MAINTAINING AND REPLACING AS NECESSARY TO ENSURE CONTINUAL SERVICE TO BUILDINGS.
- THE CONTRACTOR IS RESPONSIBLE TO CALL OHIO UTILITIES PROTECTION SERVICE @ 1-800-362-2764, THREE WORKING DAYS PRIOR TO CONSTRUCTION.

ENGINEER'S PROJECT No. 180518



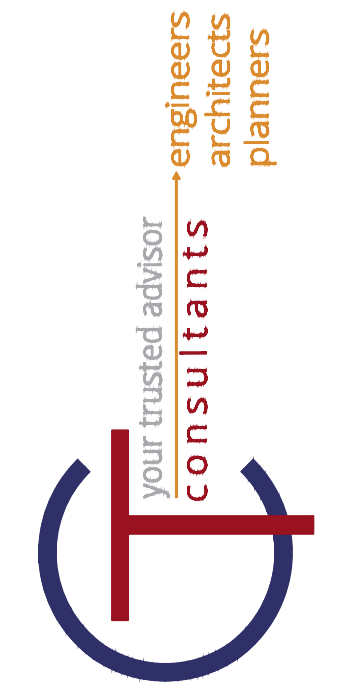
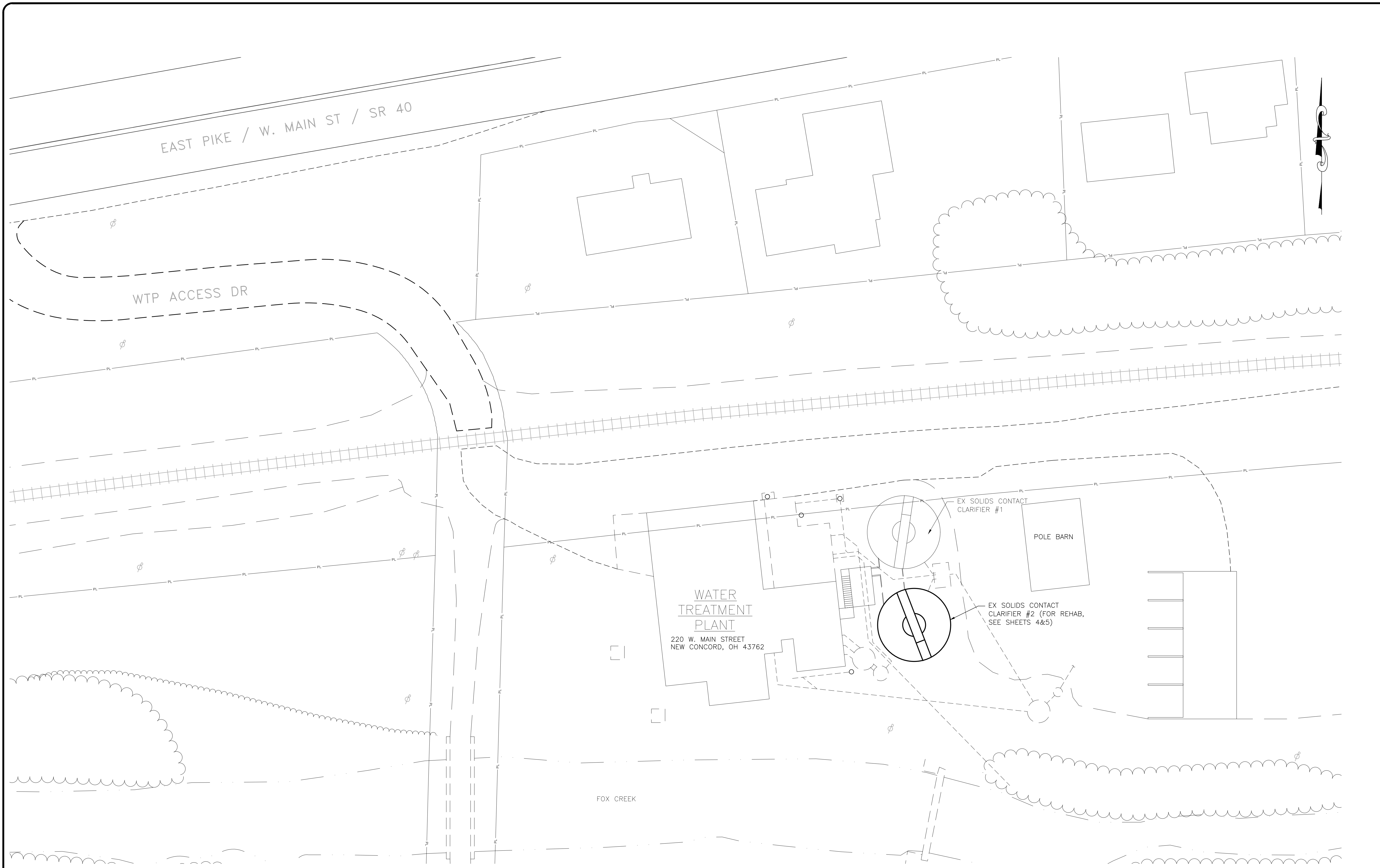
NO	REVISION	DATE

SCALE: AS SHOWN
 DATE: 4/23/2020
 DESIGNED BY: DEB
 DRAWN BY: RE
 CHECKED BY: DEB

VILLAGE OF NEW CONCORD, OHIO
 WTP CLARIFIER MODIFICATION

TITLE SHEET

PROJECT NO:	
180518	
DRAWING NAME	
G-01	
SHEET	OF
1	5



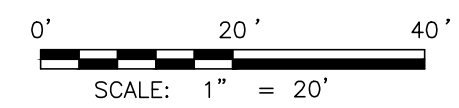
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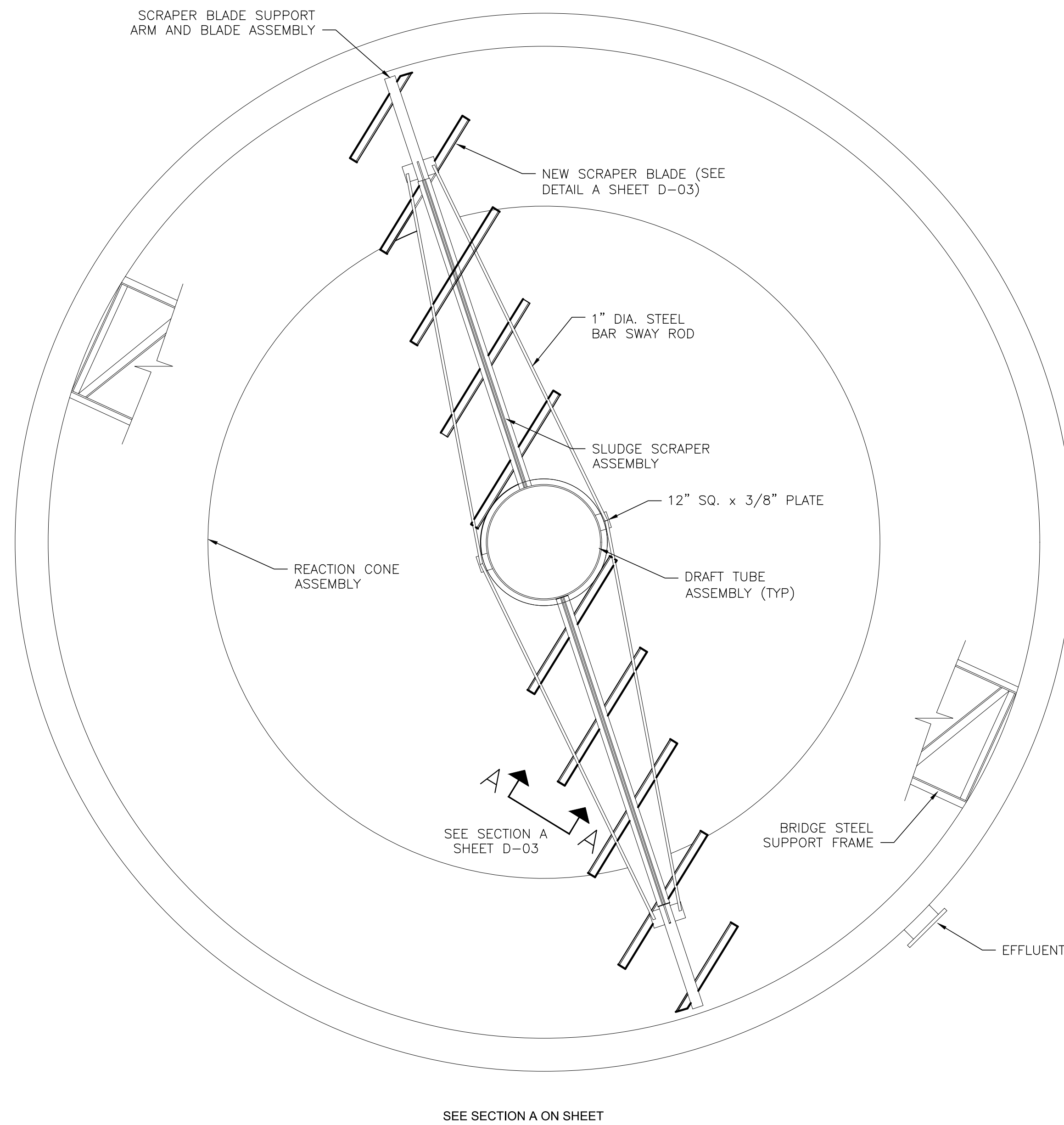
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VILLAGE OF NEW CONCORD, OHIO
WTP CLARIFIER MODIFICATION
SITE PLAN

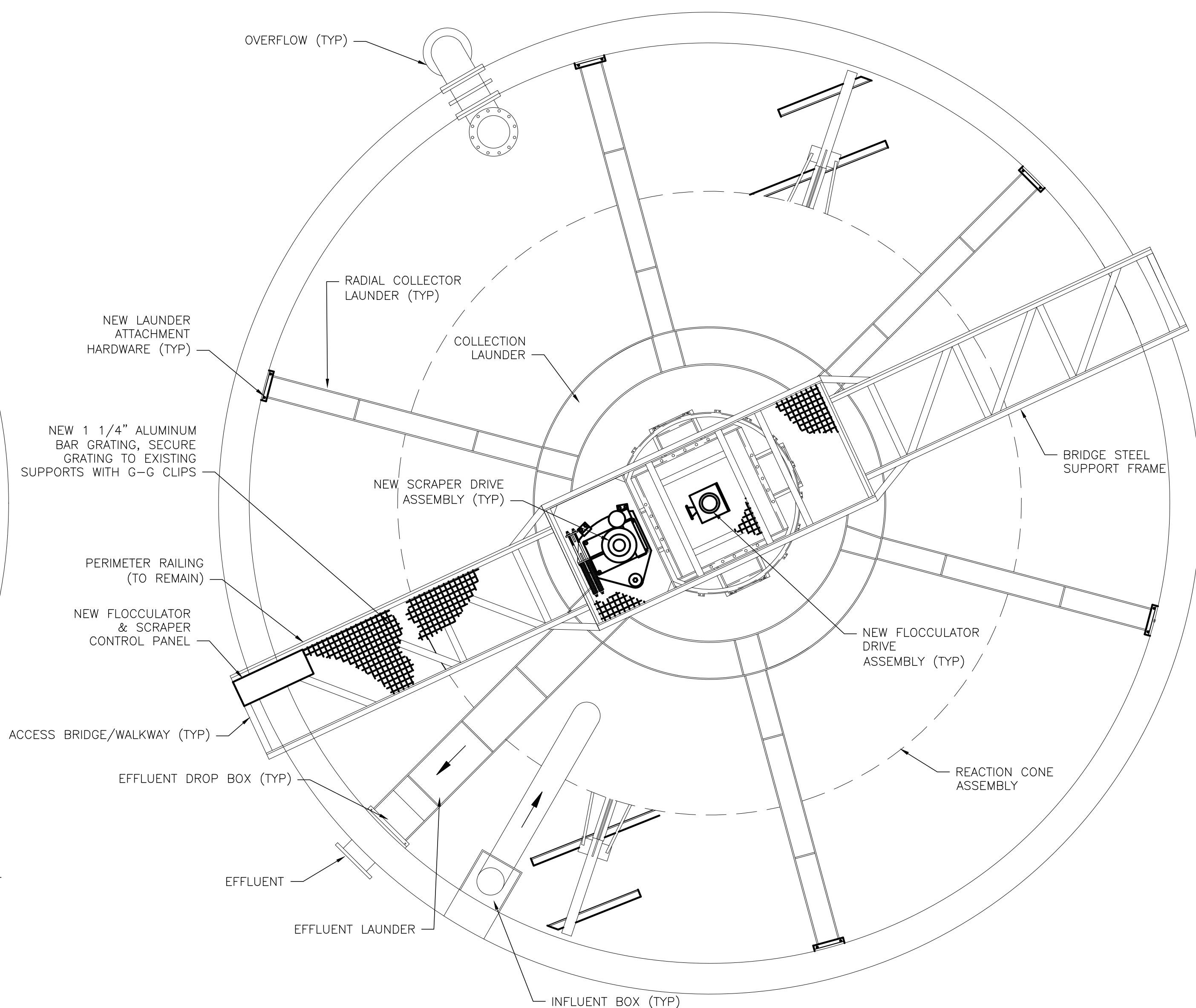
PROJECT NO:	
180518	
DRAWING NAME	
C-01	
SHEET	OF
2	5

BEFORE YOU DIG
 EXISTING UTILITIES WERE LOCATED FROM RECORD DRAWINGS AND ARE SHOWN AS APPROXIMATE. CONTRACTOR IS RESPONSIBLE FOR EXACT LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO EXCAVATION.





SOLIDS CONTACT CLARIFIER #2 LOWER PLAN (TYP)
SCALE: 3/8"=1'-0"



SOLIDS CONTACT CLARIFIER #2 UPPER PLAN (TYP)
SCALE: 3/8"=1'-0"

GENERAL NOTES:

1. UNIT SHOWN IS A REPRESENTATION OF TYPICAL EQUIPMENT OF THIS TYPE AND MAY NOT MATCH EXISTING UNITS EXACTLY.
2. CONTRACTOR SHALL FIELD VERIFY ALL COMPONENTS OF THE PROJECT WORK TO CONFIRM SIZES, TYPES, CONDITIONS, EQUIPMENT, INSTALLATION METHODS, ETC.
3. TONKA WATER IS THE OEM OF THE EXISTING CLARIFIER EQUIPMENT AND SHALL BE CONSULTED PRIOR TO SHOP DRAWING SUBMITTALS. PROVIDE ALL INSTALLATION DETAILS, MATERIALS OF CONSTRUCTION, AND EQUIPMENT SPECIFICATIONS IN A FORMAL SUBMITTAL FOR ENGINEER APPROVAL.
4. ONLY ONE UNIT SHALL BE OFFLINE AT A TIME FOR PROJECT WORK. PROTECT ALL EXISTING COMPONENTS DURING CONSTRUCTION SO AS TO MAINTAIN PLANT OPERATION AND FUNCTIONALITY.
5. PLANT SHUTDOWN SHOULD NOT BE REQUIRED TO COMPLETE THE PROJECT WORK. IF NEEDED, COORDINATE WITH OWNER 72 HOURS IN ADVANCE IF REQUIRED. MAX PLANT SHUTDOWN DURATION IS 6 HOURS.
6. CONTRACTOR SHALL PROTECT ALL EXISTING EQUIPMENT DURING PROJECT WORK. ANY DAMAGE CAUSED BY THEIR WORK SHALL BE REPAIRED TO THE OWNER'S APPROVAL AT NO ADDITIONAL COST.

CLARIFIER REHABILITATION NOTES:

1. ALL METAL COMPONENTS WITHIN THE TANKS SHALL BE REFINISHED AND RECOATED PER SPECIFICATION 09900. ITEMS INCLUDE INTERNAL PROCESS EQUIPMENT, PIPING, AND STRUCTURAL STEEL, AS WELL AS THE BRIDGE AND WALKWAY COMPONENTS.
2. REHABILITATE CLARIFIER COMPONENTS WITH IN ACCORDANCE WITH SECTION 464354, SOLIDS CONTACT CLARIFIER REHABILITATION.
3. ALL CHECKERED WALKWAY PLATE AND REPLACE WITH ALUMINUM I-BAR GRATING. SEE DETAIL ON SHEET 5.



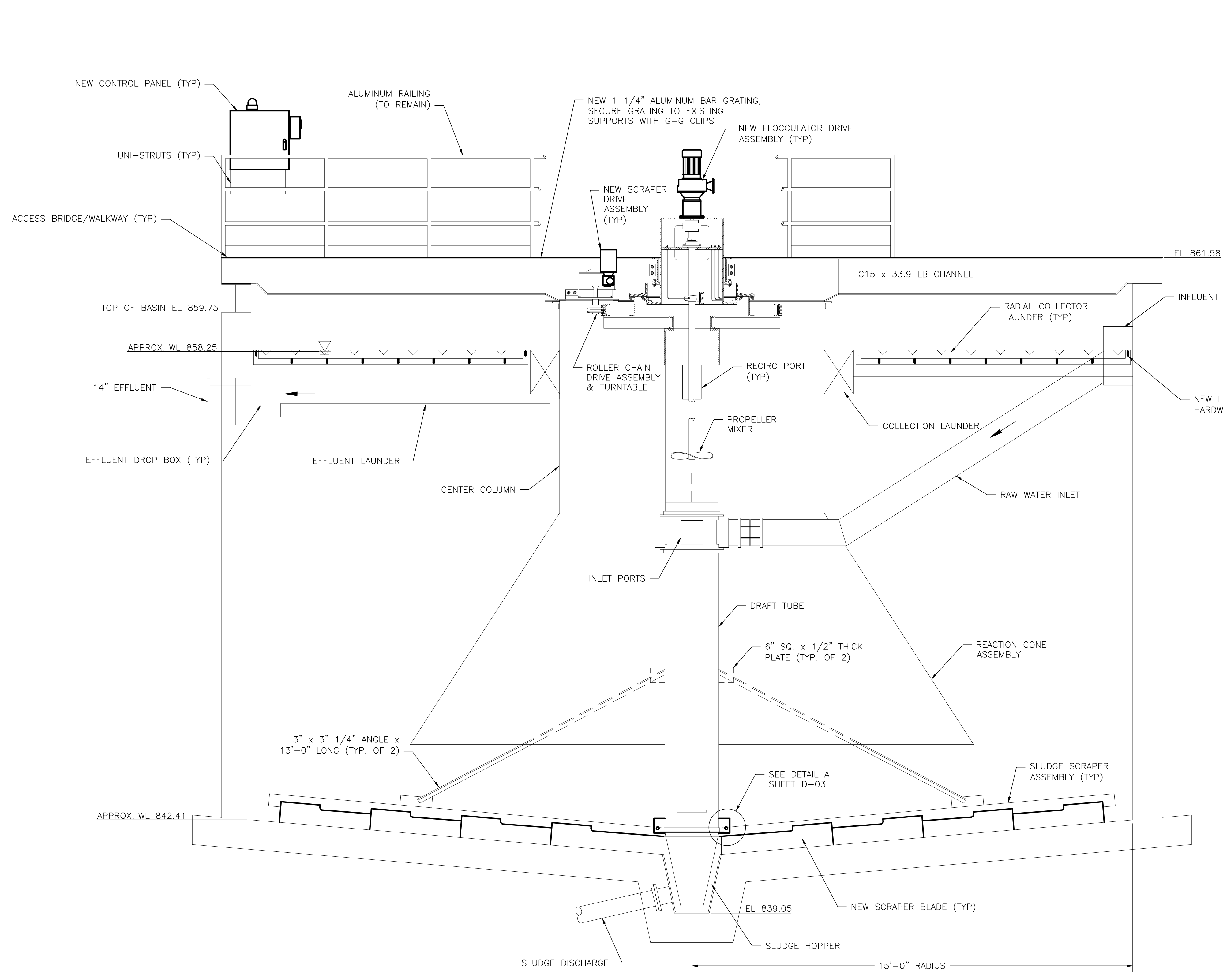
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SCALE: AS SHOWN	DATE: 4/23/2020	DESIGNED BY: DEB	DRAWN BY: RE	CHECKED BY: DEB
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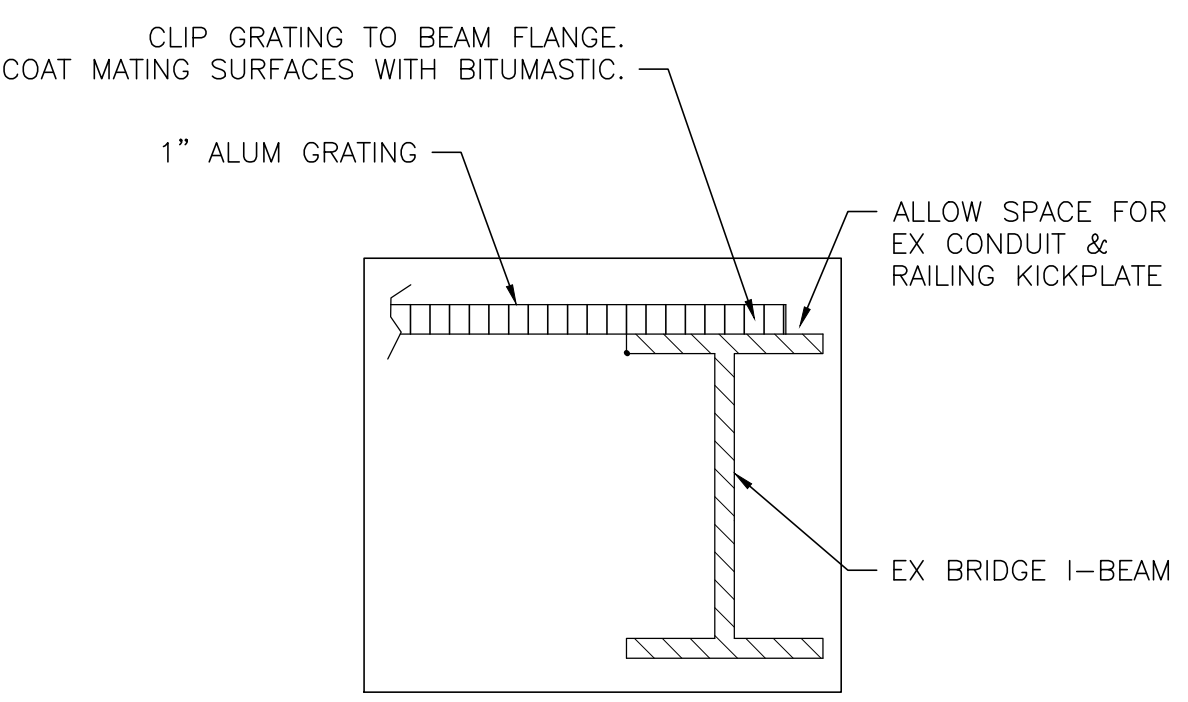
VILLAGE OF NEW CONCORD, OHIO
WTP CLARIFIER MODIFICATION

CLARIFIER PLAN

PROJECT NO: 180518	
DRAWING NAME D-01	
SHEET 3	OF 5



TYPICAL SECTION
SCALE: 1/2"=1'-0"

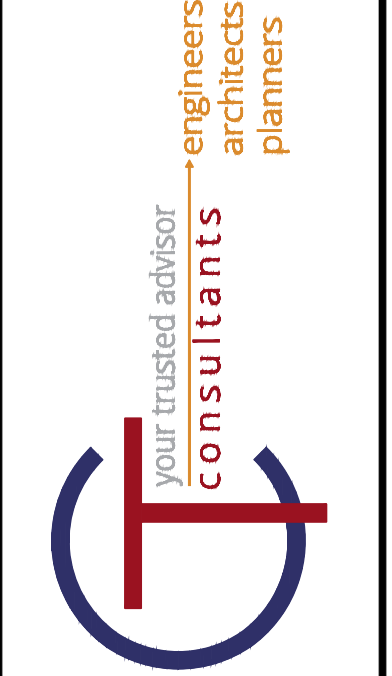


GRATING ATTACHMENT DETAIL

- NOTES:**
1. CONTRACTOR SHALL FIELD VERIFY WALKWAY DIMENSIONS AND INSTALLATION TECHNIQUES TO ACCOMMODATE OPENINGS FOR CLARIFIER DRIVES.
 2. FOLLOW SPECIFICATION 05530 FOR OTHER DETAILS.
 3. ALTERNATIVE METHODS FOR ATTACHMENT WILL BE CONSIDERED.

CLARIFIER REHABILITATION NOTES:

1. ALL METAL COMPONENTS WITHIN THE TANKS SHALL BE REFINISHED AND RECOATED PER SPECIFICATION 09900. ITEMS INCLUDE INTERNAL PROCESS EQUIPMENT, PIPING, AND STRUCTURAL STEEL, AS WELL AS THE BRIDGE AND WALKWAY COMPONENTS.
2. REHABILITATE CLARIFIER COMPONENTS WITH IN ACCORDANCE WITH SECTION 464354, SOLIDS CONTACT CLARIFIER REHABILITATION.
3. ALL CHECKERED WALKWAY PLATE AND REPLACE WITH ALUMINUM I-BAR GRATING. SEE DETAIL ON SHEET 5.



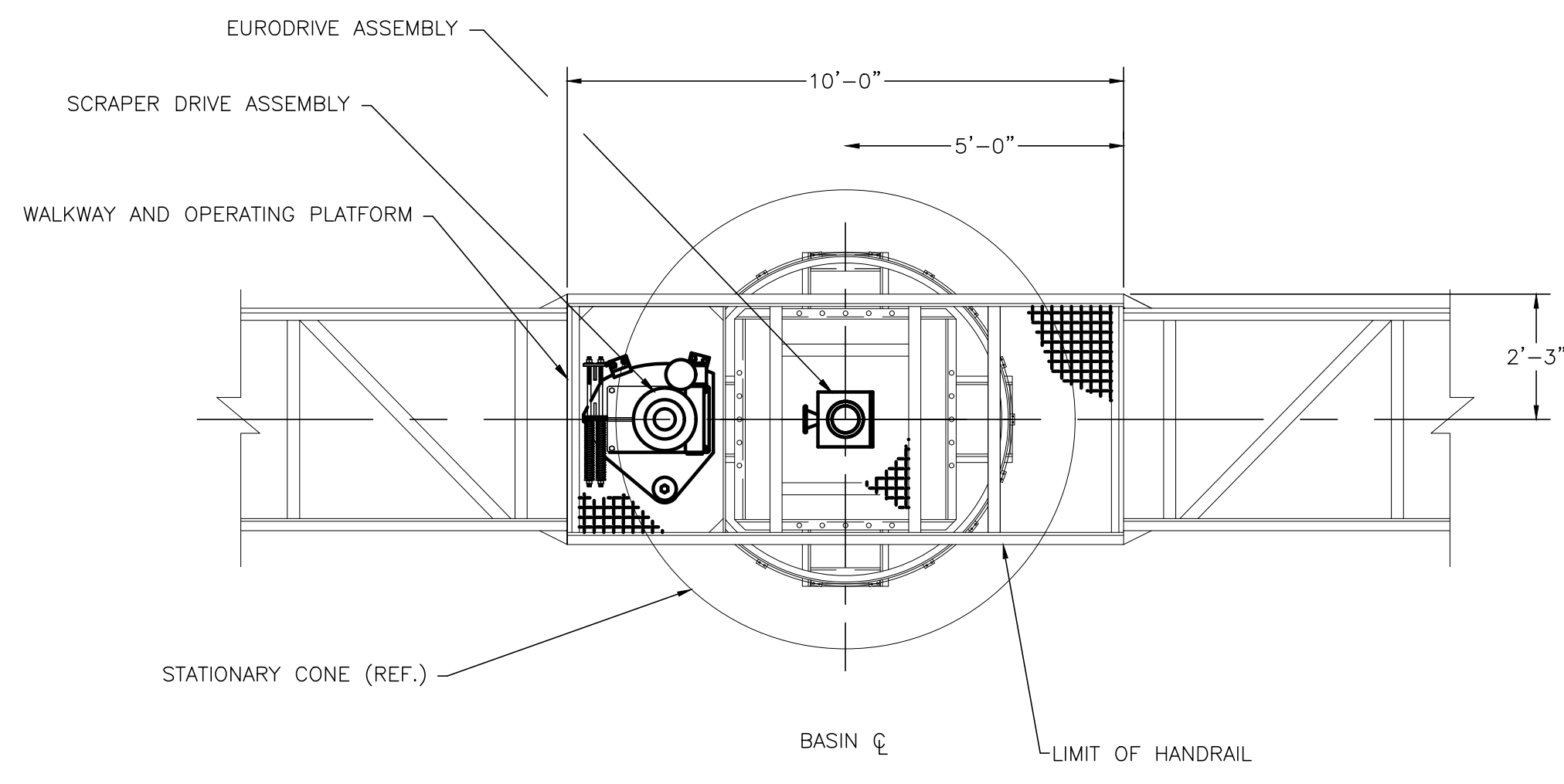
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SCALE: AS SHOWN	DATE: 4/23/2020	DESIGNED BY: DEB	DRAWN BY: RE	CHECKED BY: DEB
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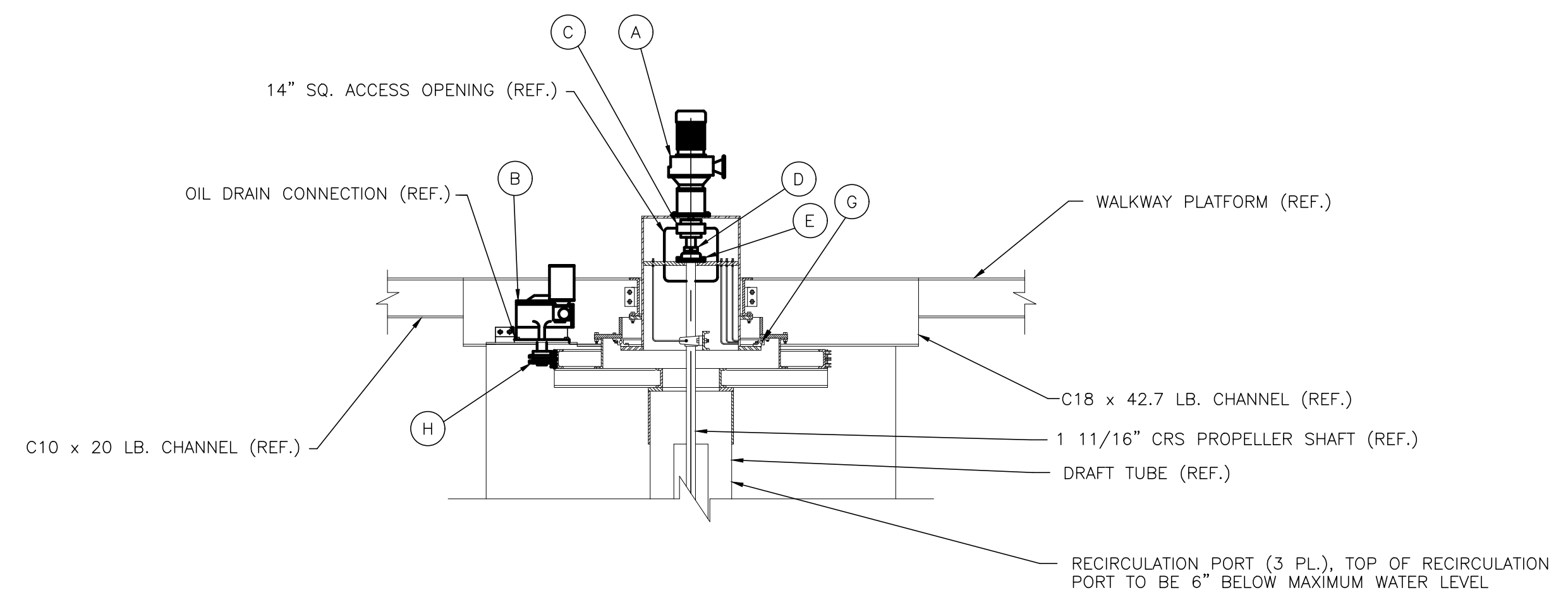
VILLAGE OF NEW CONCORD, OHIO
WTP CLARIFIER MODIFICATION

CLARIFIER SECTION

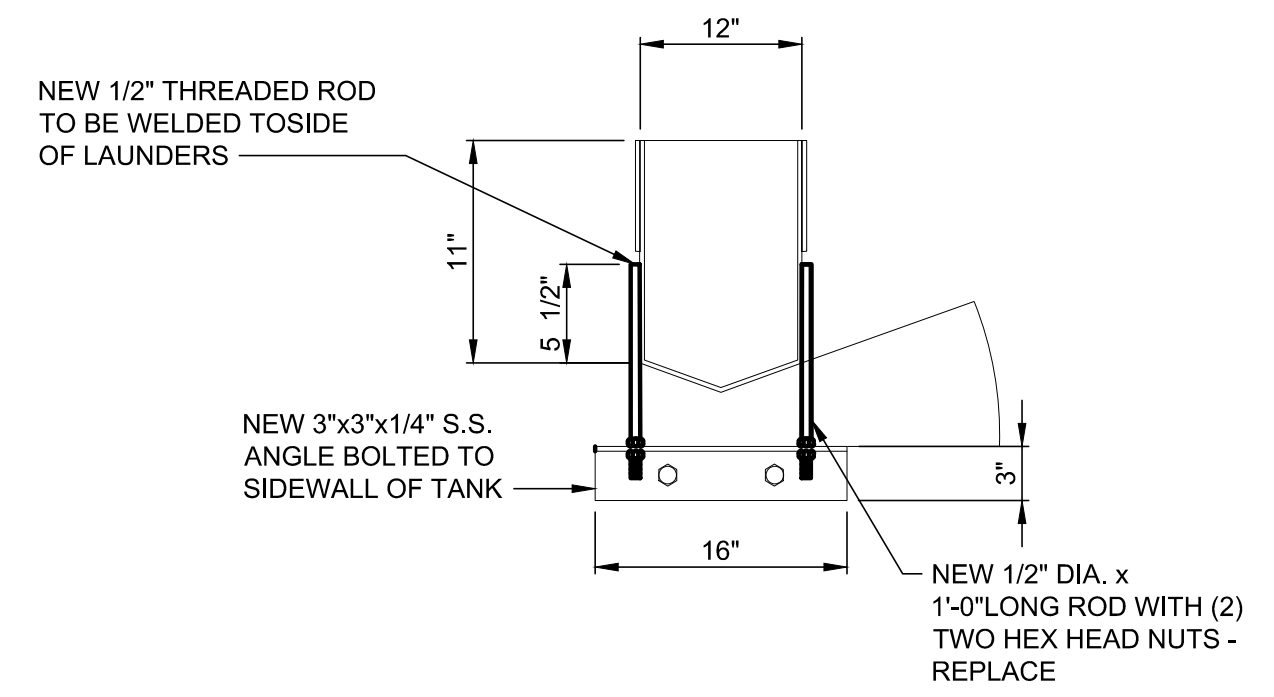
PROJECT NO:	
180518	
DRAWING NAME	
D-02	
SHEET	OF
4	5



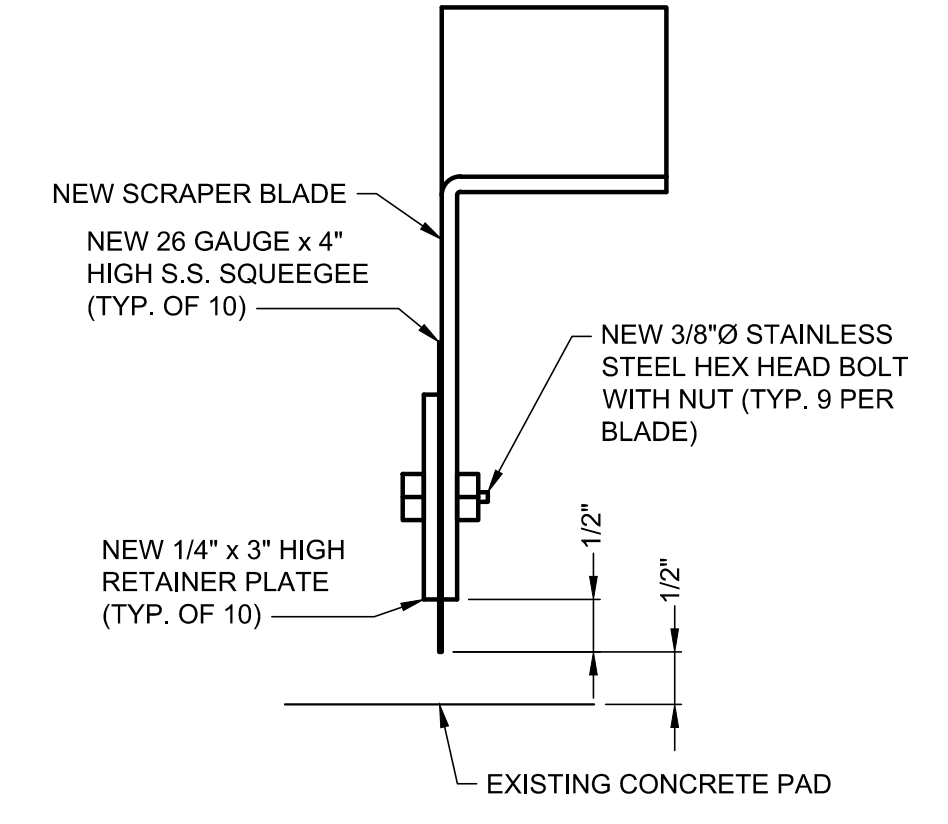
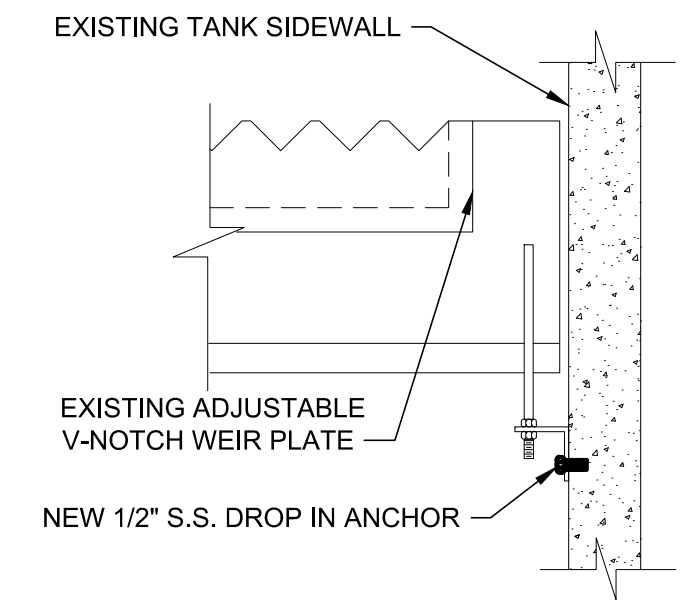
PLAN VIEW DETAIL
SCALE: 3/8"=1'-0"



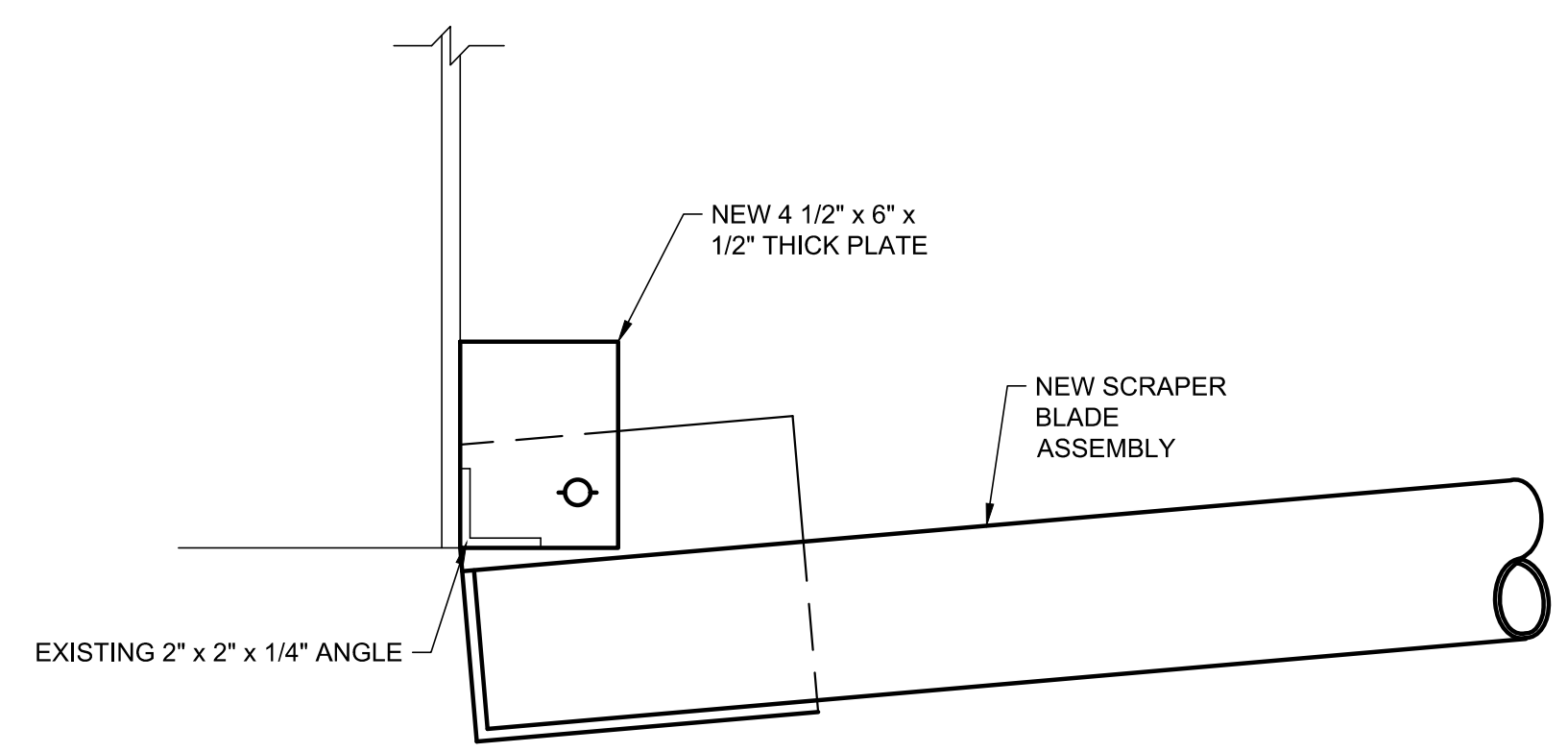
ELEVATION DETAIL
SCALE: 3/8"=1'-0"



LAUNDRER SUPPORT
(5 PLACES PER CLARIFIER)
N.T.S.



SECTION A-D-01
SCALE: N.T.S.



SECTION A-D-02
SCALE: N.T.S.

COMPONENT BILL OF MATERIALS			
STATUS	MARK	QTY PER DRIVE	DESCRIPTION
NEW	A	1	EURODRIVE CONSTANT SPEED DRIVE 1/2 HP, 230 VAC, 3 Ph, 60 Hz 4:1 REDUCTION RATIO, MODEL # RF40DT71D4 MOVITRAC # CB301.2 VFD CONTROLLER
NEW	B	1	WINSMITH GEAR REDUCER SIZE 9 "MCVDW" DOUBLE REDUCTION WORM GEAR TYPE. RATIO OF REDUCTION 3000:1. ASSEMBLY #UL-LD VERTICAL MOUNT. 3/4 HP, 460 VAC, 3 Ph, 60 Hz. T.E. MOTOR, TORQUE OVERLOAD, AND TORQUE INDICATOR ALARM TORQUE SET AT 8170 INCH LBS. MOTOR CUT-OFF SET AT 9804 INCH LBS.
REPLACE	C	1	DODGE FINISHED BORE CHAIN COUPLING. BORE ONE END FOR 1 1/4" DIA. SHAFT. BORE OTHER END FOR 1 11/16" DIA. SHAFT.
EXISTING*	D	1	DODGE SOLID STEEL SHAFT COLLAR FOR 1 11/16" DIA. SHAFT.
EXISTING*	E	1	DODGE "SCM" 4 BOLT FLANGE BEARING FOR 1 11/16" DIA. SHAFT.
EXISTING*	F	1	DODGE "SCM" PILLOW BLOCK BEARING FOR 1 11/16" DIA. SHAFT.
NEW	G	1	MARTIN SPROCKET B100-15
NEW	H	1	ROTEK BEARING SERIES #2100 MODEL #L637P9Z
NEW	I	4	BEARING LUBRICATION FITTING

*EXISTING IMPLIES THIS ITEM WILL NOT BE REPLACED



NO	REVISION	DATE

SCALE: AS SHOWN
DATE: 4/23/2020
DESIGNED BY: DEB
DRAWN BY: RE
CHECKED BY: DEB

VILLAGE OF NEW CONCORD, OHIO
WTP CLARIFIER MODIFICATION

CLARIFIER DETAILS

PROJECT NO:
180518

DRAWING NAME:
D-03

SHEET OF:
5 5