

# TOWN OF SIMSBURY



## WATER POLLUTION CONTROL FACILITY RESTORATION OF PRIMARY CLARIFIER 36 DRAKE HILL RD SIMSBURY, CT



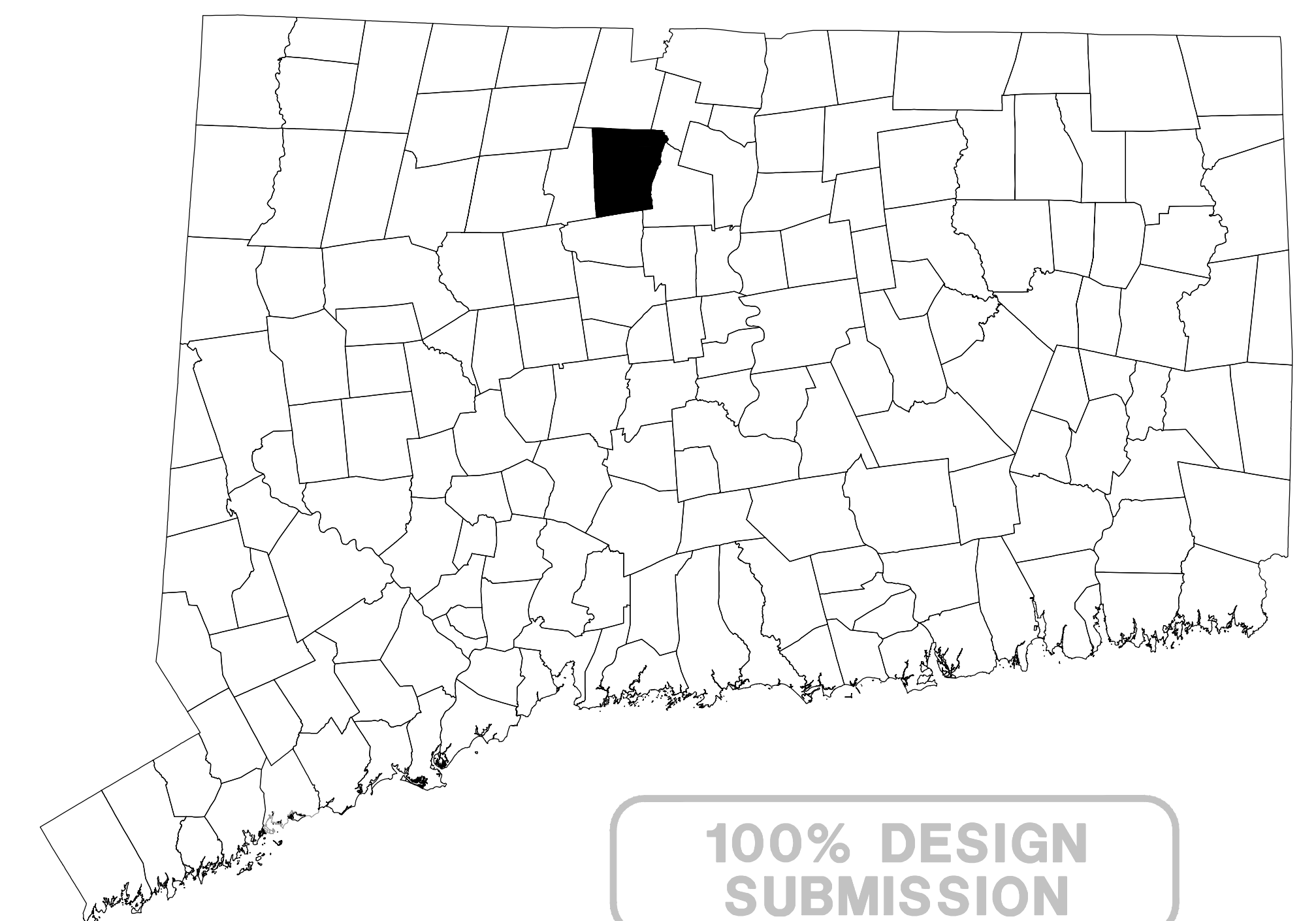
LOCATION MAP

INDEX	
SHEET NO.	DESCRIPTION
T-1	COVER SHEET & INDEX
S-1	GENERAL NOTES
S-2	EXISTING CLARIFIER PLAN AND SECTIONS
S-3	EXISTING CLARIFIER DETERIORATION PLANS
S-4	EXISTING CLARIFIER BASIN WALL ELEVATIONS
S-5	EXISTING CLARIFIER BASIN WALL ELEVATIONS AND SECTIONS
S-6	REPAIR DETAILS

PREPARED BY:

**Weston & Sampson<sup>SM</sup>**

WESTON & SAMPSON ENGINEERS, INC.  
712 Brook Street Suite 103, Rocky Hill, CT 06067



**100% DESIGN  
SUBMISSION**



1.0 – GENERAL

- 1.01 THE STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH ALL OTHER CONTRACT DRAWINGS AND SPECIFICATIONS. REFER TO CIVIL, ARCHITECTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR LOCATION, DIMENSIONS, AND DETAILS OF OPENINGS, SLEEVES, EMBEDMENTS, INSERTS, PADS, CURBS, DEPRESSIONS, ANCHOR BOLTS AND OTHER PROJECT REQUIREMENTS NOT SHOWN ON STRUCTURAL DRAWINGS.
- 1.02 THE CONTRACTOR IS RESPONSIBLE FOR CHECKING, COORDINATING AND VERIFYING ALL DIMENSIONS IN THE FIELD PRIOR TO COMMENCING WORK. THE CONTRACTOR SHALL IMMEDIATELY REPORT ANY DISCREPANCY TO THE ARCHITECT AND ENGINEER AS A REQUEST FOR INFORMATION (RFI) BEFORE PROCEEDING WITH WORK.
- 1.03 THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING IN THE FIELD THE EXISTENCE AND LOCATION OF OVERHEAD, BURIED AND/OR EMBEDDED UTILITIES, AND FOR VERIFYING LOCATIONS OF ALL EMBEDDED MECHANICAL, ELECTRICAL AND PLUMBING SYSTEMS AFFECTED BY THE WORK OF THIS CONTRACT.
- 1.04 ALL WORK IS TO CONFORM WITH THE FOLLOWING CODES AND STANDARDS:
- (A) 2022 STATE BUILDING CODE, STATE OF CONNECTICUT  
(B) INTERNATIONAL BUILDING CODE 2021  
(C) BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE", AMERICAN CONCRETE INSTITUTE ACI 318–19  
(D) "MANUAL OF STEEL CONSTRUCTION" AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) – 15TH EDITION  
(E) "STRUCTURAL WELDING CODE – STEEL" – AMERICAN WELDING SOCIETY – AWS D1.1–92.  
(F) "SEISMIC PROVISION FOR STRUCTURAL STEEL BUILDINGS" – AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC)  
(G) "MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES" – AMERICAN SOCIETY OF CIVIL ENGINEERS (ASCE–7)
- 1.05 THE CONTRACTOR SHALL NOTIFY ENGINEER OF UNFORSEEN CONDITIONS THAT MAY BE UNCOVERED DURING CONSTRUCTION AS A REQUEST FOR INFORMATION (RFI) BEFORE PROCEEDING WITH WORK.
- 1.06 DETAILS AND NOTES SHOWN ON STRUCTURAL DRAWINGS SHALL BE APPLICABLE TO ALL PARTS OF THE STRUCTURAL WORK EXCEPT WHERE SPECIFICALLY REQUIRED OTHERWISE BY CONTRACT DOCUMENTS. CONDITIONS NOT SPECIFICALLY SHOWN SHALL BE SIMILAR TO THOSE SHOWN FOR LIKE CONDITIONS AS DETERMINED BY THE ENGINEER.
- 1.07 IN ACCORDANCE WITH SPECIFICATION SECTION 01 45 23, TESTING AND INSPECTION OF STRUCTURAL WORK SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE COSTS FOR TESTING AND INSPECTION WILL BE PAID BY THE CONTRACTOR. PROVIDE TEST RESULTS TO THE ENGINEER IN A TIMELY MANNER.
- 1.08 THE CONTRACTOR SHALL DESIGN AND PROVIDE ALL REQUIRED SHORING AND TEMPORARY BRACING TO RESIST FORCES ON THE STRUCTURE THROUGHOUT THE CONSTRUCTION PERIOD.

2.0 – GENERAL DESIGN LOADS

- 2.01 DEAD LOADS:
- (A) ACTUAL WEIGHT OF STRUCTURE COMPONENTS
- 2.02 LIVE LOADS:
- (A) FLOOR SLAB LOAD – 400 PSF

3.0 – CAST IN PLACE CONCRETE

- 3.01 CONCRETE WORK SHALL CONFORM TO "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE (ACI 318–02;318R–02)" AND "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS (ACI 301–99)".
- 3.02 MAXIMUM SLUMP OF CAST–IN–PLACE CONCRETE SHALL BE 3" FOR PAVEMENT, 4" FOR FOOTINGS, SLABS AND BEAMS. FOR PUMPED CONCRETE MAX. 8". SEE SPECIFICATIONS FOR DETAILS.
- 3.03 UNLESS OTHERWISE NOTED, ALL CONCRETE SHALL BE AIR ENTRAINED PER SPECIFICATION REQUIREMENTS, AND SHALL CONFORM TO THE LATEST BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE, ACI 318.
- 3.04 CONCRETE SHALL BE PLACED WITHOUT HORIZONTAL CONSTRUCTION JOINTS EXCEPT WHERE SHOWN OR NOTED; VERTICAL CONSTRUCTION JOINTS AND STOPS IN CONCRETE WORK SHALL BE MADE AT MIDSPAN OR AT POINTS OF MINIMUM SHEAR.
- 3.05 CONCRETE SLABS SHALL BE CAST LEVEL, UNLESS SHOWN OTHERWISE.
- 3.06 CONTRACTOR SHALL COORDINATE LOCATIONS OF FLOOR DRAINS, PIPING, ELECTRICAL CONDUITS, GROUNDS, SLEEVES, INSERTS, ETC. WITH CONCRETE CONSTRUCTION. ALL FLOOR SLAB PENETRATIONS SHALL MAINTAIN A 12" MINIMUM EDGE CLEARANCE TO THE EDGE OF CONCRETE BEAMS, UNLESS OTHERWISE NOTED.
- 3.07 CONSTRUCTION JOINTS IN WALLS AND SLABS SHALL BE KEYED. FOUNDATION WALLS SHALL RECEIVE CONSTRUCTION JOINTS IN NO MORE THAN 40'–0" INTERVALS ON CONTINUOUS WALL SPANS. USE OF CONSTRUCTION JOINTS OTHER THAN THOSE SHOWN ON THE DRAWING WILL REQUIRE APPROVAL OF THE ENGINEER.
- 3.08 PROVIDE WALL SLEEVES WITH INTERMEDIATE WALL COLLARS AT ALL CAST/DUCTILE IRON AND PLASTIC PIPE PENETRATIONS, UNLESS OTHERWISE INDICATED.
- 3.09 BEAMS AND COLUMNS SHALL NOT BE PENETRATED UNLESS SPECIFICALLY SHOWN ON STRUCTURAL DRAWINGS OR APPROVED BY THE ENGINEER.
- 3.10 ALL EXPOSED CORNERS OF CONCRETE BEAMS, COLUMNS AND WALLS SHALL HAVE A 3/4" CHAMFER UNLESS OTHERWISE NOTED.
- 3.11 WHERE NEW CONCRETE IS TO BE CAST AGAINST EXISTING A BONDING AGENT SHALL BE APPLIED TO THE EXISTING FACES.
- 3.12 UNLESS NOTED OTHERWISE, CONCRETE SHALL BE NORMAL WEIGHT AND HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH AS FOLLOWS:
- (A) SPREAD FOOTINGS, FOUNDATION WALLS, PERIMETER WALLS: 4000 PSI
- 3.13 ALL PERMANENTLY EXPOSED VERTICAL AND HORIZONTAL CONCRETE SURFACES SHALL BE TREATED OR SEALED IN ACCORDANCE WITH PROJECT SPECIFICATIONS.
- 3.14 CONCRETE WORK SHALL BE COORDINATED WITH ARCHITECTURAL, MECHANICAL, PLUMBING, ELECTRICAL WORK, AND ALL EQUIPMENT. THE CONTRACTOR SHALL VERIFY INSTALLATION AND LOCATIONS OF ALL EMBEDDED ITEMS INCLUDING BUT NOT LIMITED TO INSERTS, ANCHOR BOLTS, DOWELS, BLOCKOUTS, SLEEVES, EMBEDDED PIPING, AND EMBEDDED CONDUIT PRIOR TO CONCRETE PLACEMENT.
- 3.15 FOR STRUCTURAL ELEMENTS, THE LOCATION AND MAXIMUM SPACING OF VERTICAL JOINTS SHALL BE AS FOLLOWS:
- | ELEMENT         | JOINT TYPE   | SPACING, FT. | LOCATION     |
|-----------------|--------------|--------------|--------------|
| FOUNDATION WALL | CONSTRUCTION | 40           | FACE OF WALL |
- SUBMIT JOINT LOCATIONS AND DETAILS FOR APPROVAL.
- 3.16 FOR SLAB ON GRADE, LOCATE CONSTRUCTION OR CONTROL JOINTS ALONG COLUMN LINES. PROVIDE JOINTS AT 20 FT. MAX SPACING. SUBMIT JOINT LOCATIONS AND DETAILS FOR APPROVAL.
- 3.17 A MINIMUM OF 72 HOURS SHALL ELAPSE BETWEEN ADJACENT CONCRETE PLACEMENTS.
- 3.18 CONCRETE SLABS SHALL BE PLACED SO THAT THE SLAB THICKNESS IS AT NO POINT LESS THAN THAT INDICATED ON THE DRAWINGS.
- 3.19 ALL CONCRETE SHALL BE WATER CURED UNLESS OTHERWISE AUTHORIZED BY THE ENGINEER.

4.0 – CAST IN PLACE CONCRETE REINFORCEMENT

- 4.01 REINFORCEMENT DETAILING, FABRICATION, AND ERECTION SHALL CONFORM TO "ACI DETAILING MANUAL" – SP–66, "CRSI MANUAL OF STANDARD PRACTICE".
- 4.02 STEEL REINFORCEMENT, UNLESS NOTED OTHERWISE, SHALL CONFORM TO THE FOLLOWING:
- (A) BARS, TIES, AND STIRRUPS.....ASTM A615 GRADE 60  
(B) WELDED WIRE FABRIC.....ASTM A185, FLAT SHEETS FOR FLOOR SLABS.
- 4.03 REINFORCING STEEL SHALL BE UNCOATED AND DEFORMED.
- 4.04 MINIMUM CONCRETE PROTECTIVE COVERING FOR REINFORCEMENT, UNLESS NOTED OTHERWISE, SHALL BE AS FOLLOWS:
- (A) SURFACES CAST AGAINST AND PERMANENTLY IN CONTACT WITH EARTH: 3.0"  
(B) FORMED SURFACES BACKFILLED WITH EARTH OR EXPOSED TO WEATHER: 2.0"  
(C) SURFACES NOT IN CONTACT WITH EARTH OR EXPOSED TO WEATHER: 1.5"
- 4.05 REINFORCING STEEL SHALL BE CONTINUOUS THROUGH ALL CONSTRUCTION JOINTS, CORNERS, AND INTERSECTIONS UNLESS OTHERWISE NOTED. REINFORCING SHALL BE LAPPED AT NECESSARY SPLICES OR HOOKED AT DISCONTINUOUS ENDS, UNLESS OTHERWISE NOTED.
- 4.06 FOR REINFORCING STEEL SPLICE LAP LENGTHS REFER TO THE TABLE BELOW UNLESS OTHERWISE INDICATED.
- 4.07 MECHANICAL SPLICES SHALL BE PERMITTED SUBJECT TO APPROVAL BY THE ENGINEER. MECHANICAL SPLICES SHALL DEVELOP AT LEAST 125 PERCENT OF THE SPECIFIED YIELD STRENGTH OF THE BAR. NO WELDED CONNECTIONS ARE PERMITTED.
- 4.08 WELDED WIRE FABRIC (WWF) SHALL BE LAPPED (1) SQUARE PLUS (2) INCHES WHERE REQUIRED AND SHALL BE WIRED TOGETHER AT ALL LAPS. WWF SHALL BE SUPPORTED BY CHAIRS AND/OR CARRYING BARS PRIOR TO CONCRETE PLACEMENT.
- 4.09 REINFORCEMENT SHALL NOT BE TACK WELDED.
- 4.10 NOTIFY THE TESTING LAB AND ENGINEER 48 HOURS (MIN) PRIOR TO SCHEDULED CONCRETE PLACEMENT TO ACCOMMODATE INSPECTION OF REINFORCEMENT. NO CONCRETE SHALL BE PLACED WITHIN 48 HOURS OF SUCH NOTIFICATION.

5.0 – STRUCTURAL STEEL

- 5.01 DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM TO THE AISC "MANUAL OF STEEL CONSTRUCTION", 15TH EDITION.
- 5.02 STRUCTURAL STEEL SHALL BE NEW STEEL CONFORMING TO THE FOLLOWING:
- (A) STEEL PLATES AND BARS: ASTM A572 OR ASTM A36.  
(B) STRUCTURAL TUBING: ASTM A500 GR B.
- 5.03 ANCHOR BOLTS AND BASE PLATES SHALL BE LOCATED AND BUILT INTO CONNECTION WORK, PRESET BY TEMPLATES OR SIMILAR METHODS. PLATES SHALL BE SET IN FULL BEDS OF NON–SHRINK GROUT, UNLESS NOTED OTHERWISE.
- 5.04 ALL WELDED CONNECTIONS SHALL BE MADE BY APPROVED CERTIFIED WELDERS AND SHALL CONFORM TO A.W.S. SPECIFICATIONS AMENDED TO DATE. ELECTRODES SHALL BE E70XX.
- 5.05 STRUCTURAL STEEL MEMBERS SHALL BE WITHIN TOLERANCE BEFORE CONNECTIONS ARE FINALLY BOLTED OR WELDED.
- 5.06 FIELD CUTTING OF STRUCTURAL STEEL OR ANY FIELD MODIFICATIONS OF STRUCTURAL STEEL SHALL NOT BE MADE WITHOUT PRIOR WRITTEN APPROVAL BY THE ENGINEER FOR EACH SPECIFIC USE.
- 5.07 STRUCTURAL SHAPES AND THE BASE PLATES FOR STRUCTURAL SHAPES SHALL BE HOT DIP GALVANIZED PER ASTM A123,, UNLESS NOTED OTHERWISE.
- 5.08 ANCHOR BOLTS SHALL CONFORM TO ASTM F1554 GRADE 55 UNLESS NOTED OTHERWISE. ANCHOR BOLTS SHALL BE HOT–DIP GALVANIZED.

MINIMUM SPLICE AND EMBEDMENT LENGTH SCHEDULE (UNLESS SHOW OTHERWISE ON DRAWINGS)												
CLASS B TENSION SPLICE						Fy = 60,000 PSI						
fc = 4000 PSI      NORMAL WEIGHT												
BAR SIZE	TOP BARS CATEGORY						OTHER BARS CATEGORY					
	1	2	3	4	5	6	7	8	9	10	11	12
#3	18"	18"	18"	18"	18"	18"	16"	16"	16"	16"	16"	16"
#4	26"	24"	24"	24"	24"	24"	20"	19"	19"	19"	19"	19"
#5	40"	32"	30"	30"	30"	30"	31"	25"	23"	22"	23"	23"
#6	57"	45"	40"	36"	36"	36"	44"	35"	31"	28"	28"	28"
#7	77"	62"	54"	43"	42"	42"	59"	48"	42"	33"	33"	33"
#8	102"	81"	71"	57"	51"	48"	78"	63"	55"	44"	39"	37"
#9	129"	103"	90"	72"	64"	55"	99"	79"	69"	56"	50"	42"
#10	163"	131"	114"	92"	82"	65"	126"	101"	88"	70"	63"	50"
#11	200"	160"	140"	112"	100"	80"	154"	123"	108"	86"	77"	62"

CATEGORY					
STRUCTURAL ELEMENT	CONCRETE COVER	CATEGORY ACCORDING TO CENTER–TO–CENTER BAR SPACING			
		≤ 3d	> 3d < 4d	≥ 4d < 6d	≥ 6d
BEAMS, COLUMNS, AND INNER LAYERS OF WALLS OR SLABS	≤ d	1	1	1	2
	≥ d	1	3	5	6
ALL OTHERS	≤ d	1	1	1	2
	> d < 2d	1	3	3	4
	≥ 2d	1	3	5	6

ABBREVIATIONS

F.F.E.	FINISH FLOOR ELEVATION
W.W.F.	WELDED WIRE FABRIC
TYP.	TYPICAL
C.J.	CONTROL JOINT
CONST. JT.	CONSTRUCTION JOINT
CMU	CONCRETE MASONRY UNIT
℄	CENTER LINE
E.W.	EACH WAY
T&B	TOP AND BOTTOM
T.W.E.	TOP OF WALL ELEVATION
B.F.W.	BOTTOM OF FOOTING ELEVATION
DBL.	DOUBLE
CONC.	CONCRETE
MIN.	MINIMUM
ARCH.	ARCHITECTURAL
CONN.	CONNECTION
EL.	ELEVATION
O.C.	ON CENTER
U.N.O.	UNLESS NOTED OTHERWISE
REINF.	REINFORCEMENT
CONT.	CONTINUOUS
H.P.	HIGH POINT
GA.	GAUGE
VERT.	VERTICAL
HORIZ.	HORIZONTAL
N.T.S.	NOT TO SCALE
S.L.	STRUCTURAL LINE
SQ.	SQUARE
[xx'–xx"]	INDICATES ELEVATION
F.S.	FOOTING STEP
M.O.	MASONRY OPENING

Project:

SIMSBURY, CT

WATER TREATMENT FACILITY



Weston & Sampson Engineers, Inc.  
712 Brook Street  
Rocky Hill, CT 06067

978.532.1800 800.SAMPSON

www.westonandsampson.com

Consultants:

Revisions:

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COA:

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Date: MAY 2023

Drawn By: JR

Reviewed By: PJG

Approved By: ---

W&S Project No.: ENG22-1159

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Drawing Title:

GENERAL NOTES

Sheet Number:

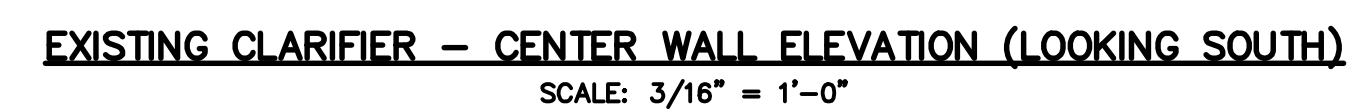
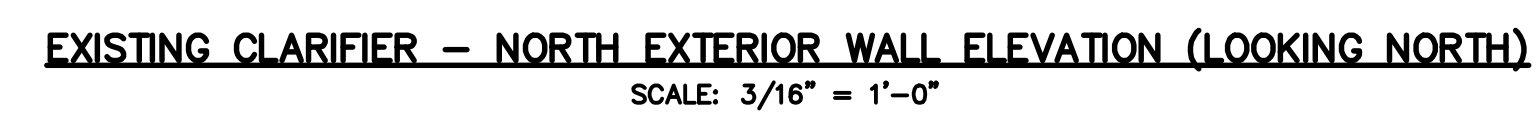
S-1











**NOTES:**

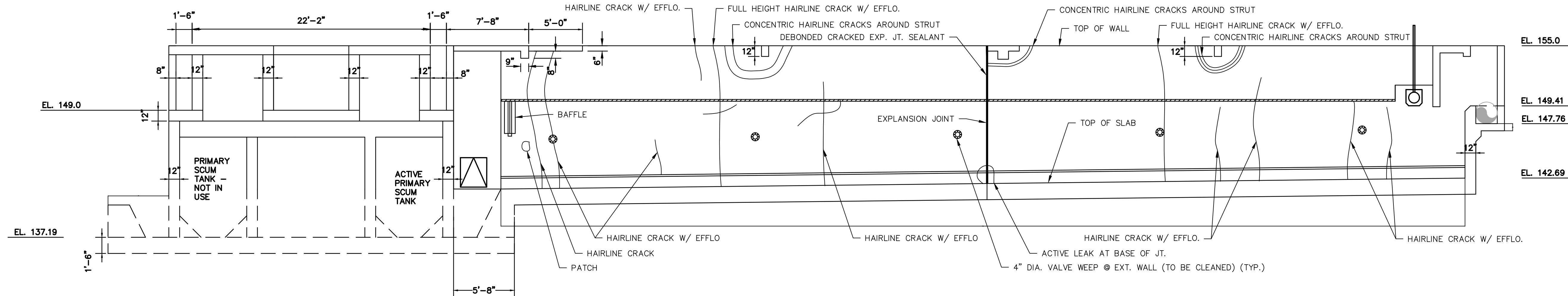
1. FOR CONCRETE REPAIR DETAILS SEE SHEET NO. S-6.
2. FOR JOINT REPAIR DETAILS SEE SHEET NO. S-6.
3. LOCATION AND EXTENT OF EXISTING DETERIORATION SHOWN ON THIS SHEET WAS DETERMINED BY A CONDITION SURVEY PERFORMED ON OCTOBER 25, 2022. IT IS INTENDED TO BE USED AS A GUIDE AND DOES NOT NECESSARILY REFLECT THE CURRENT CONDITION OF THE STRUCTURES.

S-4

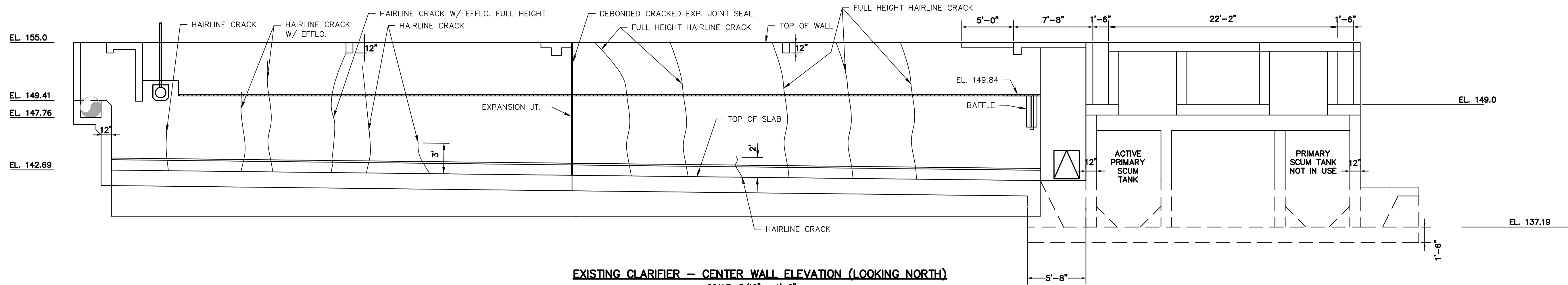
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Project Name: Clarifier Repair  
Project Number: 1181  
Drawing Title: Clarifier Wall Elevation  
Drawing Date: 10/25/2022  
Drawing Scale: 3/16" = 1'-0"

- LEGEND**
- INDICATES CONCRETE SURFACE AREA COVERED WITH VEGETATION
  - INDICATES SPALL OR HOLLOW AREA OF CONCRETE
  - INDICATES CONCRETE SCALING
  - INDICATES CRACKS
  - INDICATES MAP CRACKING
  - INDICATES EXPANSION JOINT

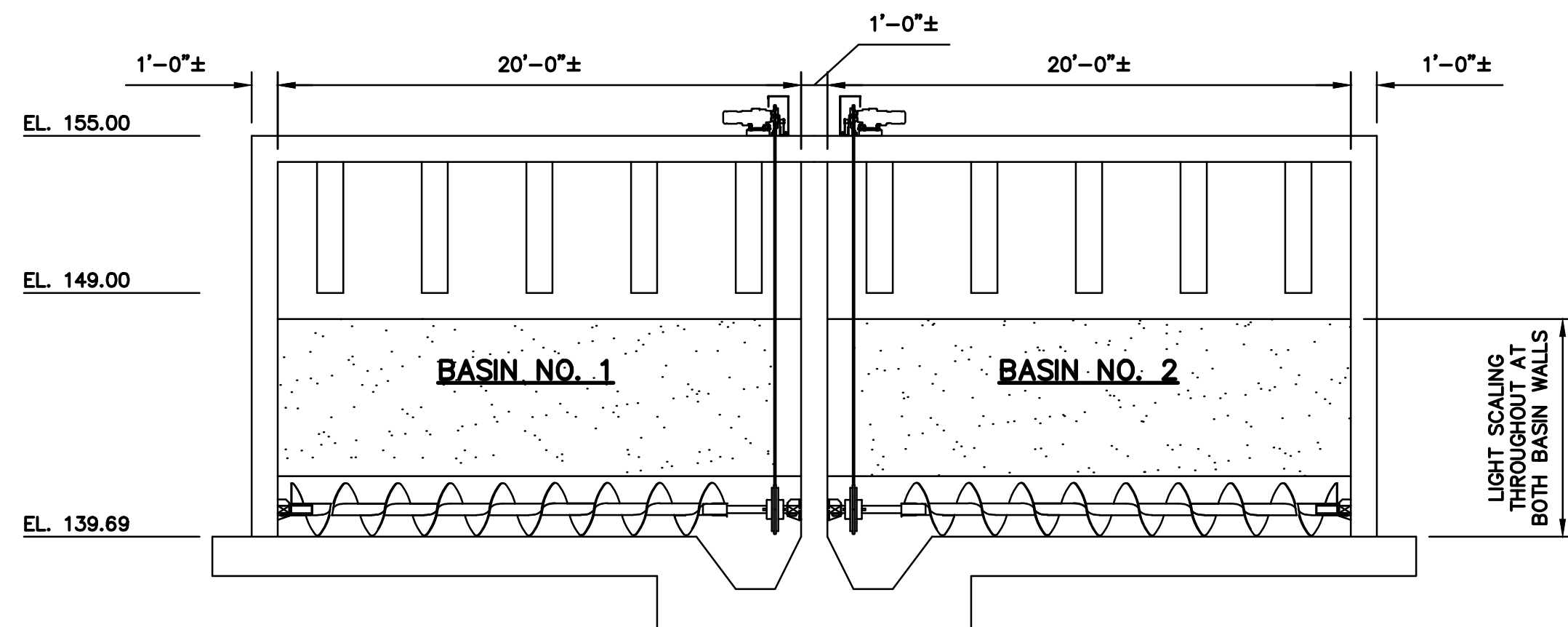
- NOTES:**
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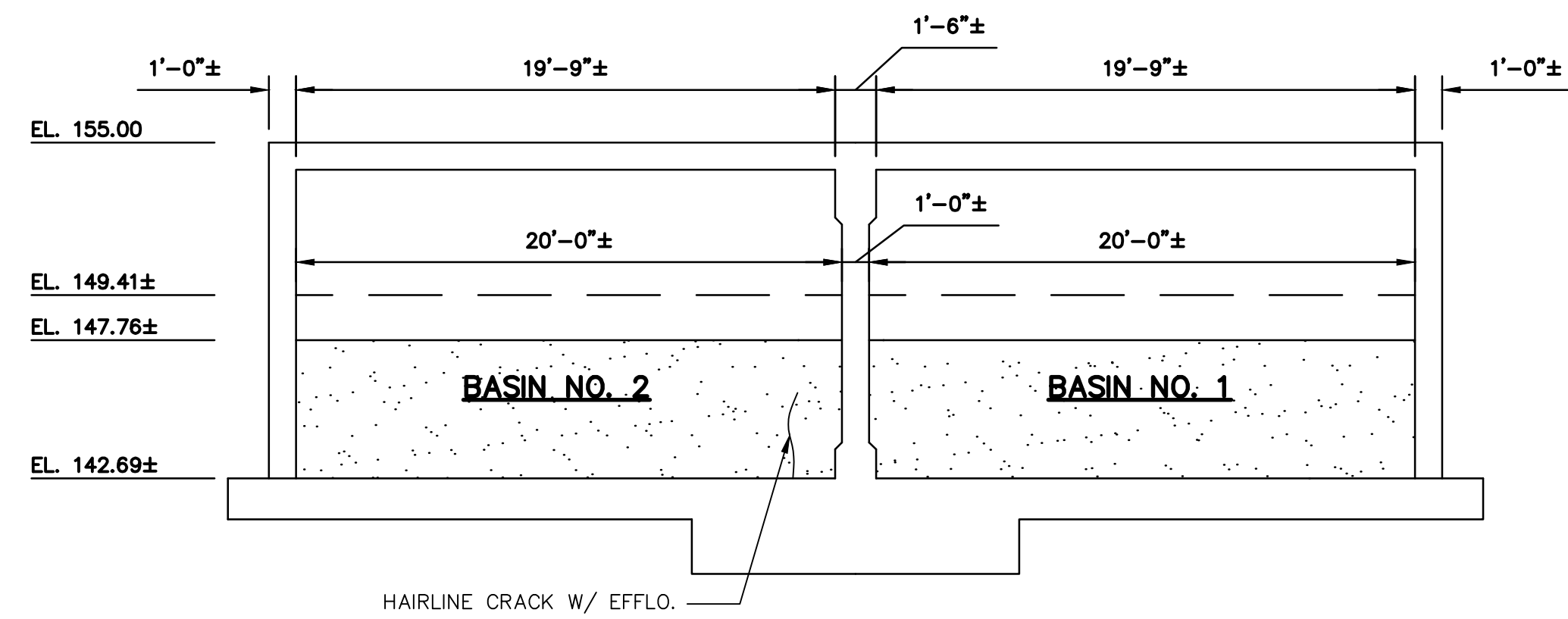
**EXISTING CLARIFIER - SOUTH EXTERIOR WALL ELEVATION (LOOKING SOUTH)**  
SCALE: 3/16" = 1'-0"



**EXISTING CLARIFIER - CENTER WALL ELEVATION (LOOKING NORTH)**  
SCALE: 3/16" = 1'-0"



**EXISTING CLARIFIER - EAST INTERIOR WALL ELEVATION (LOOKING EAST)**  
SCALE: 3/16" = 1'-0"



**EXISTING CLARIFIER - EXTERIOR WALL ELEVATION (LOOKING WEST)**  
SCALE: 3/16" = 1'-0"

Revisions:		
No.	Date	Description

COA:

Seal:

Issued For:  
**100% DESIGN  
SUBMISSION**

Scale: AS NOTED

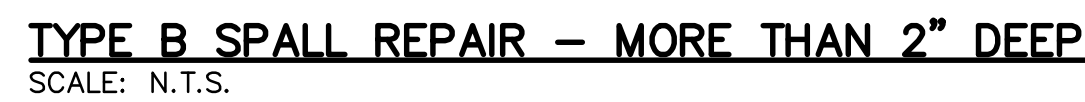
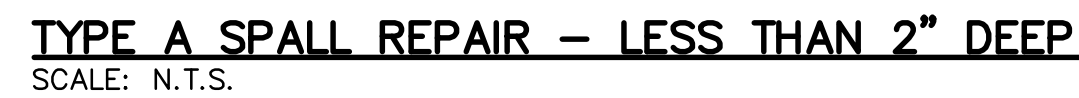
Date: MAY 2023  
Drawn By: JR  
Reviewed By: PJG  
Approved By: —  
W&S Project No.: ENG22-1159  
W&S File No.:

Drawing Title:  
**EXISTING CLARIFIER  
WALL ELEVATIONS  
AND SECTIONS**

Sheet Number:

**S-5**





1. REPAIR WORK INCLUDING REMOVING ALL DETERIORATED, LOOSE, SPALLED, AND MAP CRACKING CONCRETE AND CLEANING OF EXPOSED SURFACES AND REINFORCING BARS AS DIRECTED BY ENGINEER. COST OF THIS SHALL BE INCLUDED IN THE COST OF ITEM "CONCRETE REPAIR". CONCRETE WHICH HAS SPALLED OR IS OTHERWISE DETERIORATED ADJACENT TO SURFACE CRACK SHALL BE REPAIRED BY THIS METHOD.
2. CRACKS THAT ARE 5 MILS OR GREATER IN WIDTH SHALL BE REPAIRED BY EPOXY INJECTION CRACK REPAIR.
3. IF AFTER CONCRETE REMOVAL, IF THE REINFORCING STEEL HAS AT LEAST HALF ITS SURFACE AREA EXPOSED, THE CONCRETE SHALL BE FURTHER REMOVED TO A DEPTH OF 3/4" BELOW REINFORCING STEEL.
4. WHERE PATCHING AND EPOXY INJECTION WORK OVERLAP AS SHOWN, EPOXY INJECTION SHALL BE PERFORMED BEFORE PATCHING.
5. THE LOCATION, MAGNITUDE AND TYPE OF REPAIR SHALL BE DETERMINED BY A FIELD SURVEY PERFORMED BY THE CONTRACTOR. AFTER APPROVAL OF LIMITS, LOCATION AND TYPE OF REPAIR IS RECEIVED FROM THE ENGINEER, CONCRETE REPAIR SHALL BE REPAIRED BY THE CONTRACTOR. CONTRACTOR TO REMOVE DETERIORATED CONCRETE TO SOUND CONCRETE.
6. EXPOSED EXISTING REINFORCING STEEL BARS TO BE COATED WITH CORROSION INHIBITOR.
7. CONCRETE SURFACE SHALL BE DAMPED PRIOR TO PATCHING IN ACCORDANCE WITH SPECIFICATIONS.
8. ALL PATCHES TO BE FINISHED FLUSH WITH SURROUNDING CONCRETE SURFACES.



IF DURING REMOVAL OF DETERIORATED CONCRETE, THE CONTRACTOR DAMAGES EXISTING REINFORCEMENT TO THE EXTENT REQUIRING REPLACEMENT, ANY ADDITIONAL CONCRETE REMOVAL AND REPLACEMENT WITH PATCHING MATERIAL SHALL BE AT THE CONTRACTOR'S EXPENSE. CLEANING EXISTING REINFORCING STEEL AND FURNISHING AND INSTALLING REPLACEMENT STEEL WILL ALSO BE INCLUDED.



EXISTING JOINT WIDTH	DEPTH OF JOINT SEAL
1" OR LESS	EQUAL TO WIDTH
GREATER THAN 1"	$\frac{1}{2}$ OF WIDTH (1" MINIMUM)