

# CITY OF NAPLES WATER TREATMENT FACILITY ACCELATOR NO. 3 REHABILITATION & IMPROVEMENTS



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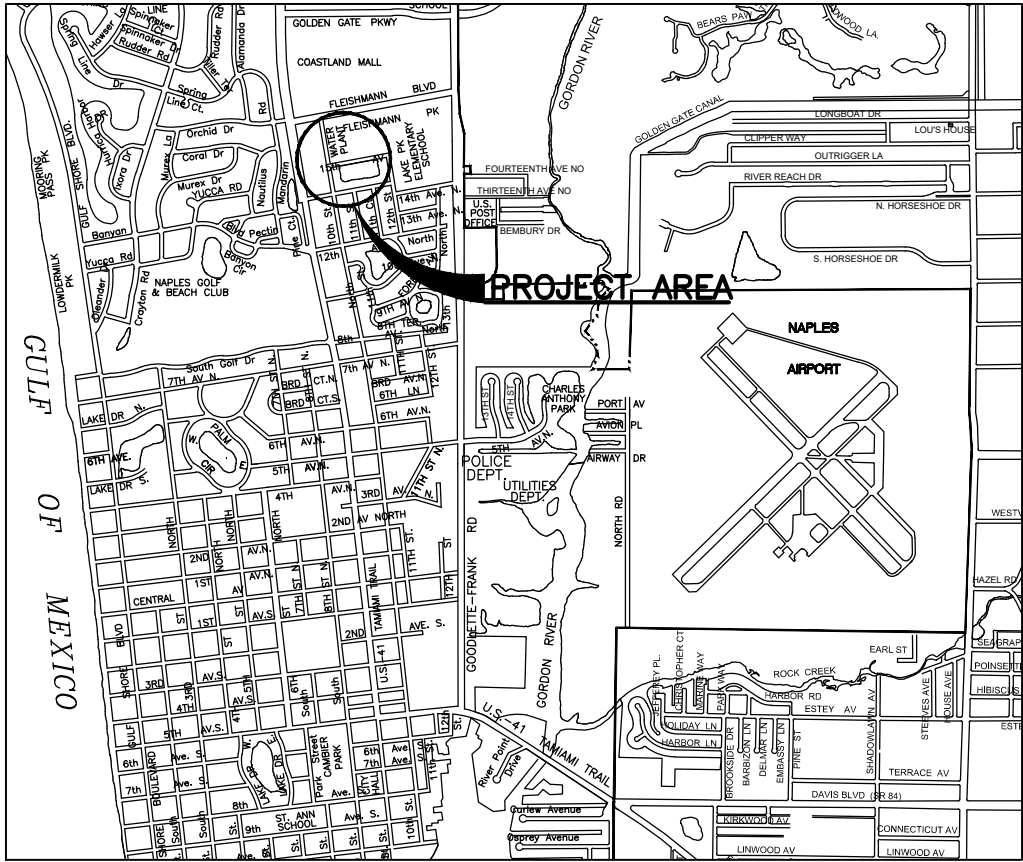
### CITY COUNCIL

BILL BARNETT	MAYOR
GARY PRICE	VICE-MAYOR
RAYMOND CHRISTMAN	COUNCIL MEMBER
MICHELLE McLEOD	COUNCIL MEMBER
REG BUXTON	COUNCIL MEMBER
TERRY HUTCHINSON	COUNCIL MEMBER
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CHARLES CHAPMAN

**DIRECTOR, DEPARTMENT OF UTILITIES ADMINISTRATION**  
ROBERT H. MIDDLETON

**DEPUTY DIRECTOR, DEPARTMENT OF UTILITIES ADMINISTRATION**  
ALLYSON HOLLAND



**LOCATION MAP**  
N.T.S.



950 Encore Way  
Naples, FL. 34110  
Phone: (239) 254-2000  
Florida Certificate of  
Authorization No.1772

**SEPTEMBER, 2019  
FOR BIDDING**

FOR GENERAL (G-1 THRU 1-4) AND MECHANICAL (M-1 THRU M-6)

David W. Schmitt, P.E.  
Florida Reg. No. 41671

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**GENERAL REQUIREMENTS**

- A. The Contractor must plan, coordinate and execute all work in a manner that will not interfere with the operations of the City of Naples Water Treatment Plant as required by Operational Staff. Refer to Construction Notes on this Sheet and the Specifications.
- B. The Contractor shall notify the City of Naples Water Treatment Plant staff in writing at least 10 working days in advance of all planned service interruption. The written notice shall include (a) a detailed plan, (b) a list of human and equipment resources, (c) a detailed schedule and (d) a backup plan in case of an unexpected event. Refer to Specification Section Q1140 for additional information and requirements.
- C. Prior to commencing work, the Contractor shall submit for approval of the following:
  - 1. Construction Schedule
  - 2. Schedule of Values
- E. Shop drawing for any equipment and materials must be approved prior to its installation.
- F. After Substantial Completion and prior to Final Completion the Contractor shall submit as-built drawings. The Contractor shall sign and date the as-built drawings.

**GENERAL NOTES**

- A. All elevations refer to North American Vertical Datum (NAVD)-1988. The as-built drawings shall reference the North American Vertical Datum (NAVD)-1988.
- B. It is the Contractor's responsibility to replace all existing landscaping (i.e. sod, bushes, trees, etc.) sprinkler piping, sprinkler heads and fencing that may have to be removed or has been damaged during construction. Contractor to replace or repair any damaged property or improvements to a condition equal or better than existed prior to construction.
- C. It is the Contractor's responsibility to verify location and depth of all existing underground utilities prior to construction.
- D. It is the Contractor's responsibility to field locate and protect any existing utility.
- E. It is the Contractor's responsibility to use non-destructive methods to locate embedded conduit in concrete walls and floors prior to demolition, saw cutting and core drilling.
- F. Extreme caution to be used when excavating. Number and location of exiting utilities have been noted based on the information furnished by others.
- G. Damage to existing utilities and property during construction shall be repaired and/or replaced at Contractor's expense.
- H. All driveway, sidewalks and other existing facilities, utilities and improvements shall be restored equal to pre-construction or better and to the satisfaction of the Engineer.

**SPECIAL PROJECT REQUIREMENTS**

- A. The Contractor is advised that the City of Naples Water Treatment Plant and site are high security areas and access is strictly controlled at all times.
- B. Site access shall be coordinated with the Plant Operator and the City Project Manager. All access shall be executed in accordance with the Plant security procedures.
- C. All site storage shall be coordinated with the Plant Operator and the City Project Manager.
- D. Work on the site, unless approved by the Plant Operator shall be limited to Monday through Friday 7:00a.m - 5:00p.m. Any work outside this time shall be requested by the Contractor and reviewed and approved by the City.


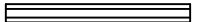

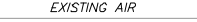





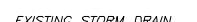





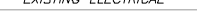











**SPECIFICATIONS**

- A. All City of Naples Utility Department Standard Details and Specifications (Utility Standards) are applicable to this project and are made a part of the Contract Documents by reference. Refer to latest edition and revisions of the City of Naples Utilities Standards; in the event of conflict between the City of Naples Utilities Standards Manual and these drawings and specifications, the more stringent requirement shall apply. Special attention is to be paid to the following requirements, specific to this project:
  - a. Contractor shall flush, pressure test and disinfect all new piping. refer to Utility Standards.
  - b. Sidewalks, driveways and curbs shall, at a minimum, meet utility standards manual section 321300.
  - c. As-built drawings require surveyed, signed and sealed records. see section 01781.
    - 1) Including the locations for instrumentation & electric conduits, electric panels, piping and fittings.


**ABBREVIATIONS:**

ARV	AIR RELEASE VALVE	LF	LINEAR FEET
BAV	BALL VALVE	MAX	MAXIMUM
BE	BURIED ELECTRIC	MH	MANHOLE
BLVD	BOULEVARD	MIN	MINIMUM
B/L	BASE LINE	NO.	NUMBER
BM	BENCH MARK	NTS	NOT TO SCALE
BT	BURIED TELEPHONE	OC/EW	ON CENTER EACH WAY
BFV	BUTTERFLY VALVE	PGL	PROFILE GRADE LINE
CC	CENTER TO CENTER	PPW	POWER POLE WOOD
CI	CAST IRON	PPC	POWER POLE CONCRETE
CL	CLASS/CENTERLINE	PSI	PER SQUARE INCH
CLY	CLAY	PVC	POLYVINYL CHLORIDE
CO	CLEANOUT	PVMT	PAVEMENT
CONC	CONCRETE	R	RIGHT OF CENTERLINE
CORP.	CORPORATION	RCP	REINFORCED CONCRETE PIPE
CP	CONTROL PANEL	RED.	REDUCER
D.I.P.	DUCTILE IRON PIPE	REQD	REQUIRED
DIA	DIAMETER	RMJ	RESTRAINED MECHANICAL JOINT
ESMT	EASEMENT	RW/R.O.W.	RIGHT OF WAY
ELEV/EL	ELEVATION	SCH	SCHEDULE
EOP	EDGE OF PAVEMENT	SCO	SEWER CLEANOUT
EX	EXISTING	SCV	SWING CHECK VALVE
FFE	FINISH FLOOR ELEVATION	SMH	SANITARY MANHOLE
FM	FORCE MAIN	SR	SPECIAL REINFORCED THREADS
FT	FEET	SS	SANITARY SEWER/STAINLESS STEEL
FLG	FLANGED PIPE FITTING	STA	STATION
FO	FIBER OPTIC	SW	SOLVENT WELD
GALV	GALVANIZED	SW	SIDEWALK
GV	GATE VALVE	TYP	TYPICAL
HDPE	HIGH-DENSITY POLYETHYLENE	UE	UNDERGROUND ELECTRIC
INV	INVERT	WM	WATER METER/WATER MAIN
L	LEFT OF CENTERLINE		

**LEGEND**

	FIRE HYDRANT ASSEMBLY		CASING PIPE
	WATER VALVE		AIR PIPING
	WATER METER		WATER MAIN
	BLOW OFF		FORCE MAIN
	AIR RELEASE VALVE		STORM DRAIN
	REDUCER		BURIED TELEPHONE CABLE
	22 1/2" BEND		BURIED ELECTRIC CABLE
	45° BEND		BURIED TELEVISION CABLE
	90° BEND		FENCE
	TEE		EDGE OF PAVEMENT
	CROSS		FACE OF/BACK OF CURB
	PLUG		RIGHT OF WAY
	MITERED END SECTION		EASEMENT
			SIDEWALK

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			<b>HM</b> HOLE MONTES ENGINEERS - PLANNERS - SURVEYORS	950 Encore Way Naples, FL. 34110 Phone: (239) 254-2000 Florida Certificate of Authorization No.1772	DESIGN BY: <b>D.W.S.</b> DRAWN BY: <b>J.M.M.</b> CHECKED BY: <b>D.W.S.</b> CAD FILE: 17010AA3-CV	 David W. Schmitt, P.E. Florida Reg. No. 41671	<b>CITY OF NAPLES</b> <b>CITY OF NAPLES WATER TREATMENT PLANT</b> <b>ACCELATOR NO. 3 REHABILITATION &amp; IMPROVEMENTS</b> <b>GENERAL NOTES</b>	PROJECT NO. : <b>2017C.010</b> DATE : <b>09/19</b> SHEET NO. : <b>G-2</b>
<b>NO.</b>	<b>DATE</b>	<b>REVISIONS</b>	<b>BY</b>					

**SCOPE OF WORK – SEQUENCE**

- A. Work of this Contract consists of furnishing and installing and performing:
  1. Cleaning of Accelator No. 3 and obtaining field measurement.
  2. Removal and demolition of existing Accelator equipment and elevated walkway. Accelator equipment shall be properly disposed of. The existing lights on the Accelator walkway and access walkways shall be temporarily removed and reinstalled (Total of 3). Contractor shall provide temporary access to the Accelator. Existing piping to be temporarily supported during elevated walkway replacement.
  3. Structural repair of the existing Accelator as identified. Upon removal of the existing Accelator equipment and cleaning, the Engineer will conduct an onsite inspection to determine any additional repairs to be made.
  4. Installation of the proposed Accelator equipment and structure including, but not limited to, the rafters, steel wall plates, outer draft tubes, influent piping, rotor impeller assembly, gear box, motor, rotor assembly shaft, deck plate, impeller shaft, radial launders, collection launder, effluent launders, and sludge flushing system.
  5. Installation of lightweight fill material between the concrete ring wall and the slope steel wall. This shall include the installation of access ports and preparing the new steel surfaces as identified.
  6. Coating and painting the entire Accelator structure including the top and the interior concrete ring wall and effluent chamber with the exception of stainless steel and aluminum structure, the existing exterior concrete ring wall and floor.
  7. Miscellaneous cleanup and restoration.
  8. Startup, testing and training of the facility staff.
  9. A Bid Alternate is the cleaning, crack and spall repair and coating of the exterior concrete tank wall.
- B. Execution of the Work will require coordination and planning with the Water Treatment Facility Manager and the City's Project Manager. The Work shall be planned and executed in a manner and schedule that does not interfere with the on-going normal operational performance of the facility. Truck access shall be maintained for chemical deliveries. Temporary blockage of truck access routes shall be coordinated with the Treatment Facility Manager.
- C. The Contractor shall organize, coordinate, schedule and execute the various phases or sites of the Contract Work so as to be in strict compliance with the following:
  10. Special Project Requirements as noted on Contract Drawings Sheet G-2.
- D. The Contractor shall provide factory certified start-up and testing of the Accelator mechanism with training of City staff.
- E. The Contract Work includes handling and disposal of residual liquid, grit and solids in the existing tank. The Work also includes temporary measures as may be required to shut-off or control the flows affecting execution of the Work. Before proceeding with such temporary measures, the Contractor shall submit details for approval. Refer to Section 01140 and the Contract Drawings for additional information and requirements.
- F. The facility may have other construction projects ongoing. As a result, the Contractor shall coordinate his work with these other projects. This coordination shall include submitting weekly schedules and cooperating with other contractors.

SEQUENCE OF WORK

- A. The following construction constraints and work sequence are not intended to be a complete or exhaustive list, and the descriptions provided are general in nature. The Contractor is responsible for identifying all work activities that could affect any operational aspect of the facility and providing the Owner and Engineer sufficient prior notice. Refer to Sections 01110, 01140 and 01150 for additional information and requirements. The following work sequences are intended to be general in nature and not inclusive of all steps or details. The Contractor can submit alternative work sequences to the Engineer for review.

**SCOPE OF WORK – SEQUENCE (CONT.)**

- B. Work under this Contract shall be conducted as noted in the following general sequence and work constraints unless an alternative sequence has been approved by the Engineer.
  1. The Contractor shall schedule delivery of the Accelator mechanism to coordinate closely with the Work progress in order to minimize the time of on-site storage.
  2. The Accelator shall be cleaned and field measurements taken prior to submission of final shop drawings.
  3. The Contractor is responsible for establishing all dimensions and sizing information required to furnish and install new fully functional Accelator mechanism as well as launders and appurtenances. The intent of the Contract Documents is for all fabricated components to be manufactured in an off-site facility normally engaged in the fabrication of such components. Field fabrication and extensive field modifications of new materials will not be allowed.
  4. Refer to the Technical Specifications and Contract Drawings for special Contractor responsibilities related to furnishing and installing the new Accelator mechanism, launders, and all appurtenances.
  5. The Contractor shall schedule their work to complete the demolition of the existing Accelator equipment to be replaced, assist the Engineer in evaluating the existing structure for any additional repairs to be made, clean and recoat the existing structure to remain.
  6. Install the new Accelator structure, mechanism, launders and appurtenances. The existing lights (3) shall be reinstalled and existing electrical reconnected. New chemical piping will be installed by the City.
  7. Install new elevated walkway with new pipe rollers from the filter building to the Accelator.
  8. Provide any final touch up to painting and coatings.
  9. Provide Owner startup, testing and training.

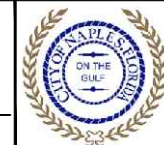
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DRAWN BY:	J.M.M.
CHECKED BY:	D.W.S.
CAD FILE:	17010AA3-CV

David W. Schmitt, P.E.  
Florida Reg. No. 41671



<b>CITY OF NAPLES</b> <b>CITY OF NAPLES WATER TREATMENT PLANT</b> <b>ACCELATOR NO. 3 REHABILITATION &amp; IMPROVEMENTS</b> <b>SCOPE OF WORK – SEQUENCE</b>	
PROJECT NO. :	2017C.010
DATE :	09/19
SHEET NO. :	G-3



CONTRACTOR SITE ACCESS AT GATE.  
CONTRACTOR LIMITED TO 2 SERVICE  
VEHICLES AT SITE. CONTRACTOR TO  
UTILIZE OFF-SITE PARKING

0 10' 50' 100'  
1" = 100', FOR 11x17 SHEETS  
1" = 50', FOR 22x34 SHEETS

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950 Encore Way  
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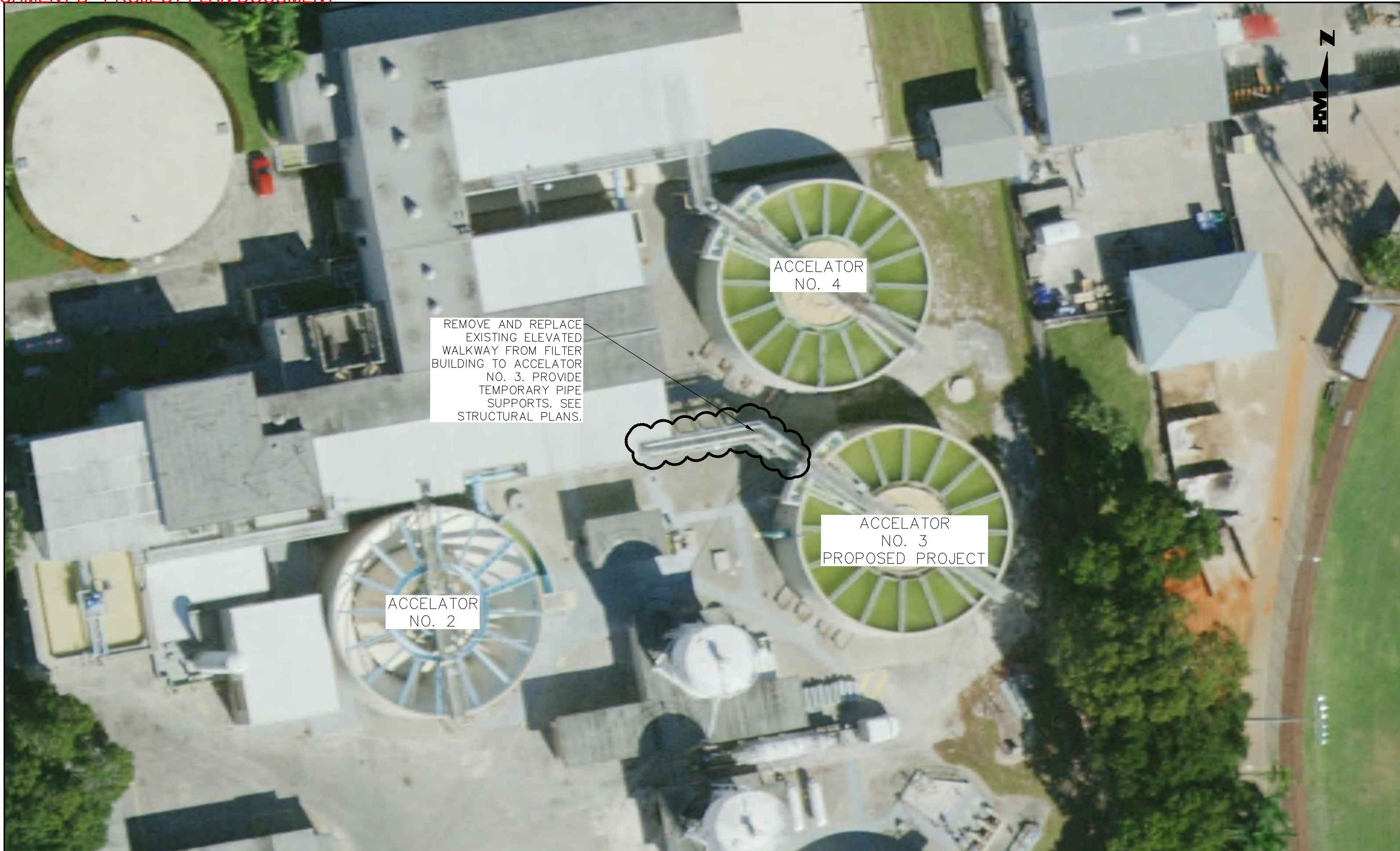
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CHECKED BY: D.W.S.  
CAD FILE: 17010ACC3-Site

David W. Schmitt, P.E.  
Florida Reg. No. 41671



CITY OF NAPLES  
CITY OF NAPLES WATER TREATMENT PLANT  
ACCELATOR NO. 3 REHABILITATION & IMPROVEMENTS  
GENERAL SITE PLAN

PROJECT NO.: 2017C.010  
DATE: 09/19  
SHEET NO.: G-4



REMOVE AND REPLACE EXISTING ELEVATED WALKWAY FROM FILTER BUILDING TO ACCELERATOR NO. 3. PROVIDE TEMPORARY PIPE SUPPORTS. SEE STRUCTURAL PLANS.

ACCELERATOR NO. 4

ACCELERATOR NO. 3 PROPOSED PROJECT

ACCELERATOR NO. 2



0 7.5' 15' 30'

1" = 30', FOR 11x17 SHEETS  
1" = 15', FOR 22x34 SHEETS

NO.	DATE	REVISIONS	BY

**H&M**  
HOLE MONTES  
ENGINEERS • PLANNERS • SURVEYORS

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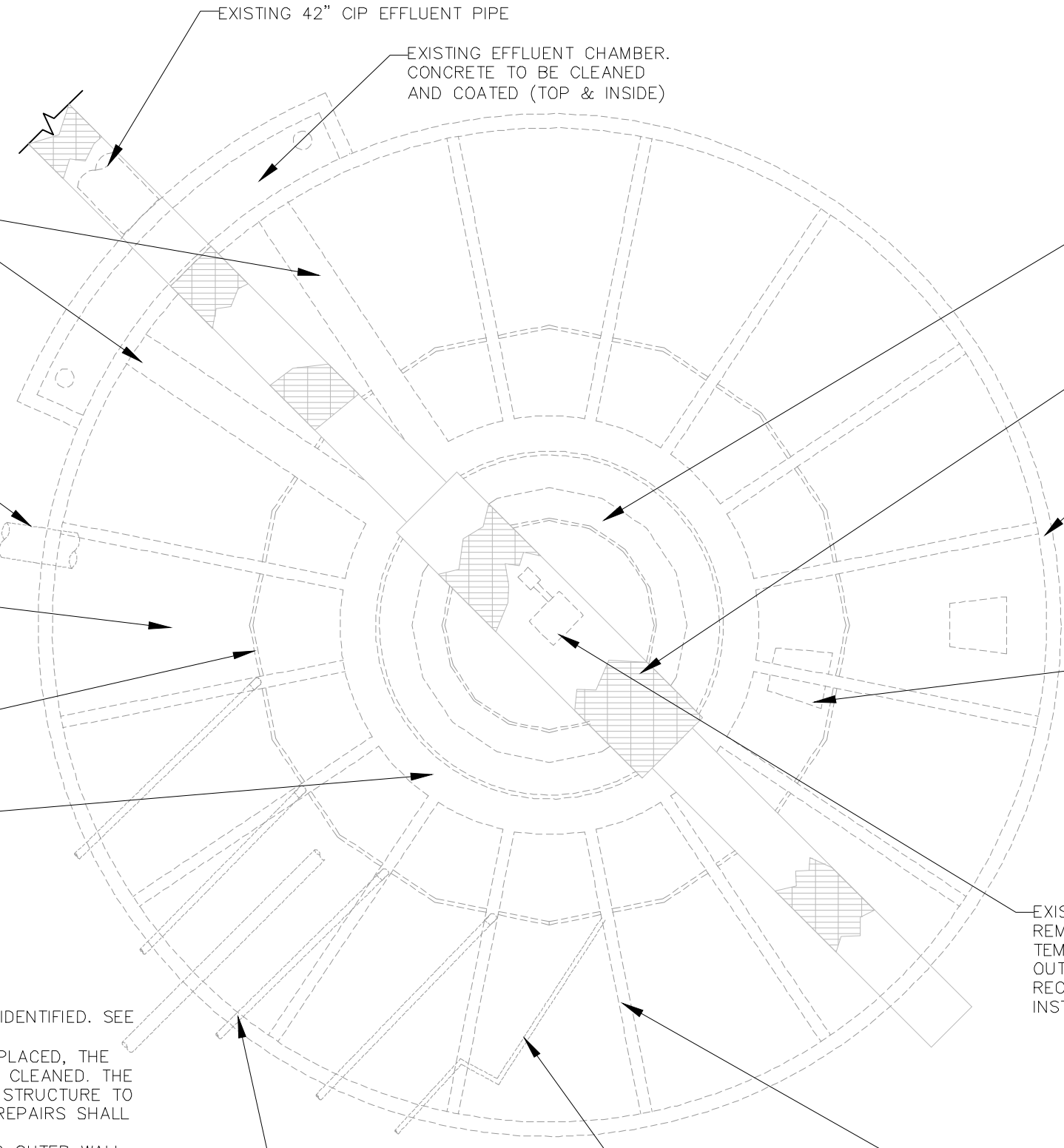


CITY OF NAPLES  
CITY OF NAPLES WATER TREATMENT PLANT  
ACCELERATOR NO. 3 REHABILITATION & IMPROVEMENTS  
ACCELERATOR SITE PLAN

PROJECT NO.: 2017C.010  
DATE: 09/19  
SHEET NO.: M-1



NOTE: EXIST. ELEVATED WALKWAY FROM FILTER BUILDING TO ACCELATOR TO BE REMOVED AND REPLACED. PROVIDE TEMPORARY PIPE SUPPORTS AND NEW PIPE ROLLERS (GRINNEL FIG. NO. 271 FOR 42" PIPE). SEE STRUCTURAL PLANS. EXISTING LIGHTS (2) SHALL BE TEMPORARILY REMOVED AND REINSTALLED.



EXIST. EFFLUENT LAUNDERS (2). 30" WIDE X 28" DEEP TO BE REMOVED AND REPLACED

EXISTING 42" CIP EFFLUENT PIPE

EXISTING EFFLUENT CHAMBER. CONCRETE TO BE CLEANED AND COATED (TOP & INSIDE)

EXIST. DECK PLATES TO BE REMOVED AND REPLACED.

REMOVE AND REPLACE EXIST. WALKWAY, ROTOR, & IMPELLER SUPPORT

EXIST. 30" INFLUENT PIPE. TO BE REMOVED AND REPLACED FROM FIRST JOINT OUTSIDE OF ACCELATOR.

EXIST. CONCRETE TANK WALL TO REMAIN. TOP OF WALL AND INTERIOR WALL SHALL BE CLEANED AND COATED. (BID ALTERNATE TO CLEAN, COMPLETE CRACK AND SPALL REPAIRS AND RECOAT EXTERIOR).

EXIST. RAFTERS AND SLOPE STEEL PLATES (16). TO BE REMOVED AND REPLACED.

EXIST. 4' SQUARE MANHOLE IN HOOD PLATE

EXIST. 3" HEADER FOR SLUDGE FLUSHING TO BE REMOVED AND REPLACED

EXIST. COLLECTION LAUNDER WITH OUTER DRAFT AND INNER DRAFT TUBES, GUSSETS AND CONCENTRATORS TO BE REMOVED AND REPLACED

EXIST. GEAR BOX AND MOTOR TO BE REMOVED AND REPLACED. TO BE TEMPORARILY DISCONNECTED AND LOCKED OUT DURING CONSTRUCTION. TO BE RECONNECTED BY CONTRACTOR FOLLOWING INSTALLATION OF NEW EQUIPMENT.

- NOTES:
- FOR CLARITY NOT ALL ITEMS ARE SHOWN OR IDENTIFIED. SEE SECTION VIEW (SHEET M-3)
  - UPON REMOVAL OF ALL EQUIPMENT TO BE REPLACED, THE ACCELATOR IS TO BE PRESSURE WASHED AND CLEANED. THE ENGINEER SHALL THEN INSPECT THE EXISTING STRUCTURE TO DETERMINE AREAS OF STRUCTURAL REPAIR. REPAIRS SHALL BE COMPLETED PRIOR TO ANY RECOATING.
  - EXISTING CHEMICAL PIPING TO BE REMOVED TO OUTER WALL AND CAPPED. CITY SHALL INSTALL NEW CHEMICAL PIPING. EXISTING ELECTRICAL FOR ACCELATOR AND MISCELLANEOUS LIGHTING SHALL BE DISCONNECTED AT OUTER WALL AND LOCKED OUT AT PANEL. UPON COMPLETION OF WORK, ELECTRICAL SHALL BE RECONNECTED.
  - EXISTING LIGHT (1) ON WALKWAY SHALL BE TEMPORARILY REMOVED AND REINSTALLED WITH NEW WALKWAY.

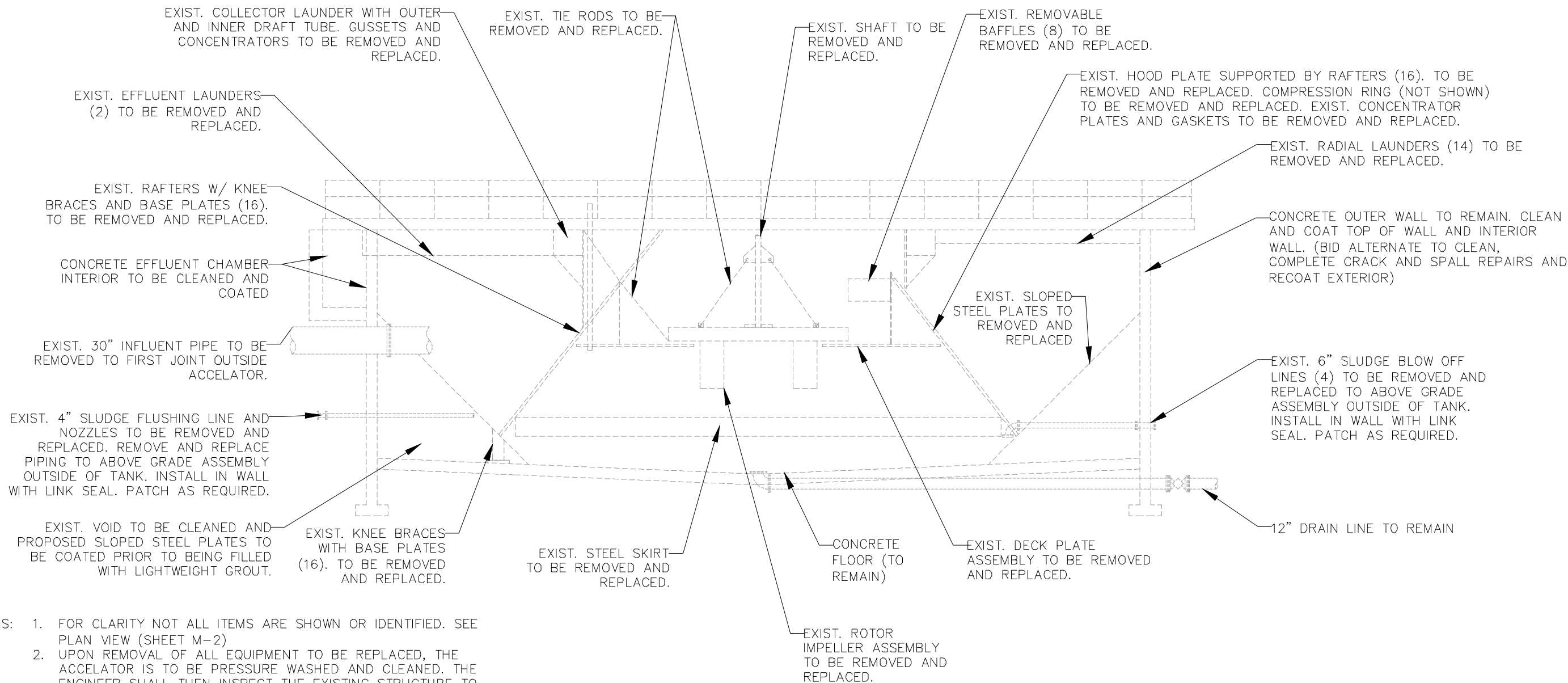
EXIST. 6" SLUDGE BLOWOFF LINES (4) TO BE REMOVED AND REPLACED TO ABOVE GRADE VALVE ASSEMBLY OUTSIDE OF TANK. INSTALL IN WALL WITH LINK-SEAL. PATCH AS REQUIRED.

EXIST. 4" SLUDGE FLUSHING PIPING. TO BE REMOVED AND REPLACED TO ABOVE GRADE VALVE ASSEMBLY OUTSIDE OF TANK. INSTALL IN WALL WITH LINK-SEAL. PATCH AS REQUIRED.

EXIST. RADIAL LAUNDERS (14). 10" WIDE X 15" DEEP TO BE REMOVED AND REPLACED

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<p>DRAWN BY: J.M.M.</p>	<p>CHECKED BY: D.W.S.</p>	<p>CAD FILE: 17010ACC3-MECH</p>	<p>DATE: 09/19</p>	<p>SHEET NO.: M-2</p>																						

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- NOTES:
1. FOR CLARITY NOT ALL ITEMS ARE SHOWN OR IDENTIFIED. SEE PLAN VIEW (SHEET M-2)
  2. UPON REMOVAL OF ALL EQUIPMENT TO BE REPLACED, THE ACCELERATOR IS TO BE PRESSURE WASHED AND CLEANED. THE ENGINEER SHALL THEN INSPECT THE EXISTING STRUCTURE TO DETERMINE AREAS OF STRUCTURAL REPAIR. REPAIRS SHALL BE COMPLETED PRIOR TO ANY RECOATING.
  3. EXISTING CHEMICAL PIPING TO BE REMOVED TO OUTER WALL AND CAPPED. CITY SHALL INSTALL NEW CHEMICAL PIPING. EXISTING ELECTRICAL FOR ACCELERATOR AND MISCELLANEOUS LIGHTING SHALL BE DISCONNECTED AT OUTER WALL AND LOCKED OUT AT PANEL. UPON COMPLETION OF WORK, ELECTRICAL SHALL BE RECONNECTED.

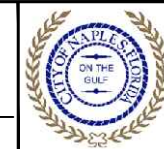
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CITY OF NAPLES  
COLLIER COUNTY, FLORIDA  
ACCELERATOR NO. 3 REHABILITATION & IMPROVEMENTS  
ACCELERATOR DEMOLITION TYPICAL SECTION VIEW

PROJECT NO.: 2017C.010  
DATE: 09/19  
SHEET NO.: M-3

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NOTE: EXIST. ELEVATED WALKWAY FROM FILTER BUILDING TO ACCELATOR TO BE REMOVED AND REPLACED. PROVIDE TEMPORARY PIPE SUPPORTS AND NEW PIPE ROLLERS (GRINNEL FIG. NO. 271 FOR 42" PIPE). SEE STRUCTURAL PLANS. EXISTING PIPING SHALL BE TOUCHED UP FOLLOWING INSTALLATION OF ELEVATED WALKWAY.

EXISTING 42" CIP EFFLUENT PIPE. TO BE COATED.

PROPOSED EFFLUENT LAUNDERS (2). 30" WIDE X 28" DEEP STAINLESS STEEL. ATTACH TO EXIST. WALL WITH S.S. ANCHOR BOLTS. REMOVE EXIST. ANCHOR BOLTS AND PATCH.

EXIST. GEAR BOX, AND MOTOR TO BE REMOVED AND REPLACED. TO BE TEMPORARILY DISCONNECTED AND LOCKED OUT DURING CONSTRUCTION.

30" INFLUENT PIPE TO BE REMOVED AND REPLACED TO FIRST JOINT OUTSIDE OF ACCELATOR. TO BE COATED.

PROPOSED STAINLESS STEEL COLLECTION LAUNDRER (28" X30") WIDE, WITH NEW OUTER AND INNER DRAFT TUBES, GUSSETS AND CONCENTRATORS. OUTER DRAFT TUBE TO BE STAINLESS STEEL.

EXIST. 6" SLUDGE BLOWOFF LINES (4) TO BE REMOVED AND REPLACED TO ABOVE GRADE ASSEMBLY OUTSIDE OF TANK. INSTALL IN WALL WITH LINK SEAL. PATCH AS REQUIRED. PIPING TO BE DUCTILE IRON FROM FIRST JOINT ON OUTSIDE TO 2' INSIDE TANK AND THEN 304L STAINLESS STEEL.

EXISTING EFFLUENT CHAMBER. CONCRETE TO BE CLEANED AND COATED (TOP & INSIDE)

PROPOSED DECK PLATE ASSEMBLY TO BE COATED.

PROPOSED WALKWAY, ROTOR, & IMPELLER SUPPORT (GALVANIZED STEEL SUPPORT BEAM AND HARDWARE. GRATING, RAILING AND KICK PLATES TO BE ALUMINUM).

PROPOSED 4' SQUARE MANHOLE IN HOOD PLATE. PROVIDE ADDITIONAL OPENINGS AS REQUIRED FOR LIGHTWEIGHT FILL. WELD CLOSED WHEN COMPLETE. (SEE STRUCTURAL PLANS)

EXIST. CONCRETE TANK WALL TO REMAIN. PATCH EXIST. WALL AT REMOVED ANCHOR BOLTS AND EQUIPMENT. TOP OF WALL AND INTERIOR WALL SHALL BE CLEANED AND COATED. (BID ALTERNATE TO CLEAN, COMPLETE CRACK AND SPALL REPAIRS AND RECOAT EXTERIOR.)

PROPOSED. 4' SQUARE MANHOLE IN FILLER PLATE. PROVIDE HINGES AT BOTTOM, SEE DETAIL M-6.

NEW SLOPE STEEL PLATES. PROVIDE NEW ATTACHMENT TO EXIST. CONCRETE RING WALL AND FLOOR.

PROPOSED RADIAL LAUNDERS (14). 10" WIDE X 15" DEEP, STAINLESS STEEL. ATTACH TO EXISTING WALL WITH S.S. ANCHOR BOLTS. REMOVE EXIST ANCHOR BOLTS AND PATCH.

PROPOSED 3" HEADER FOR SLUDGE FLUSHING WITH NEW SPRAY NOZZLES.

EXIST. 4" SLUDGE FLUSHING PIPING. TO BE REMOVED AND REPLACED TO ABOVE GRADE ASSEMBLY OUTSIDE OF TANK. INSTALL IN WALL WITH LINK SEAL. PATCH AS REQUIRED. PIPING TO BE DUCTILE IRON FROM FIRST JOINT ON OUTSIDE TO 2' INSIDE TANK AND THEN 304L STAINLESS STEEL.

NO.	DATE	REVISIONS	BY



950 Encore Way  
Naples, FL. 34110  
Phone: (239) 254-2000  
Florida Certificate of  
Authorization No.1772

DESIGN BY: D.W.S.  
DRAWN BY: J.M.M.  
CHECKED BY: D.W.S.  
CAD FILE: 17010ACC3-MECH

David W. Schmitt, P.E.  
Florida Reg. No. 41671

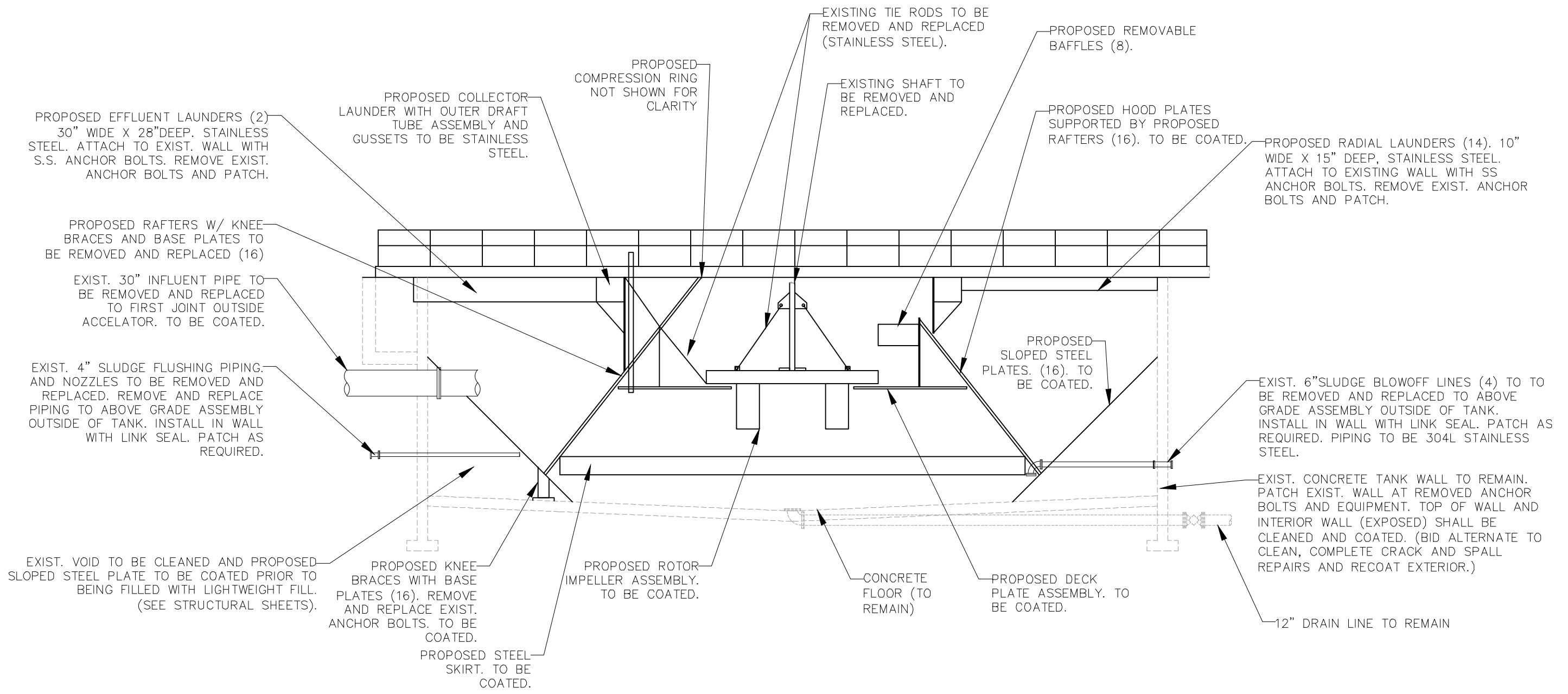


CITY OF NAPLES  
COLLIER COUNTY, FLORIDA  
ACCELATOR NO. 3 REHABILITATION & IMPROVEMENTS  
ACCELATOR PROPOSED PLAN VIEW



PROJECT NO.: 2017C.010  
DATE: 09/19  
SHEET NO.: M-4

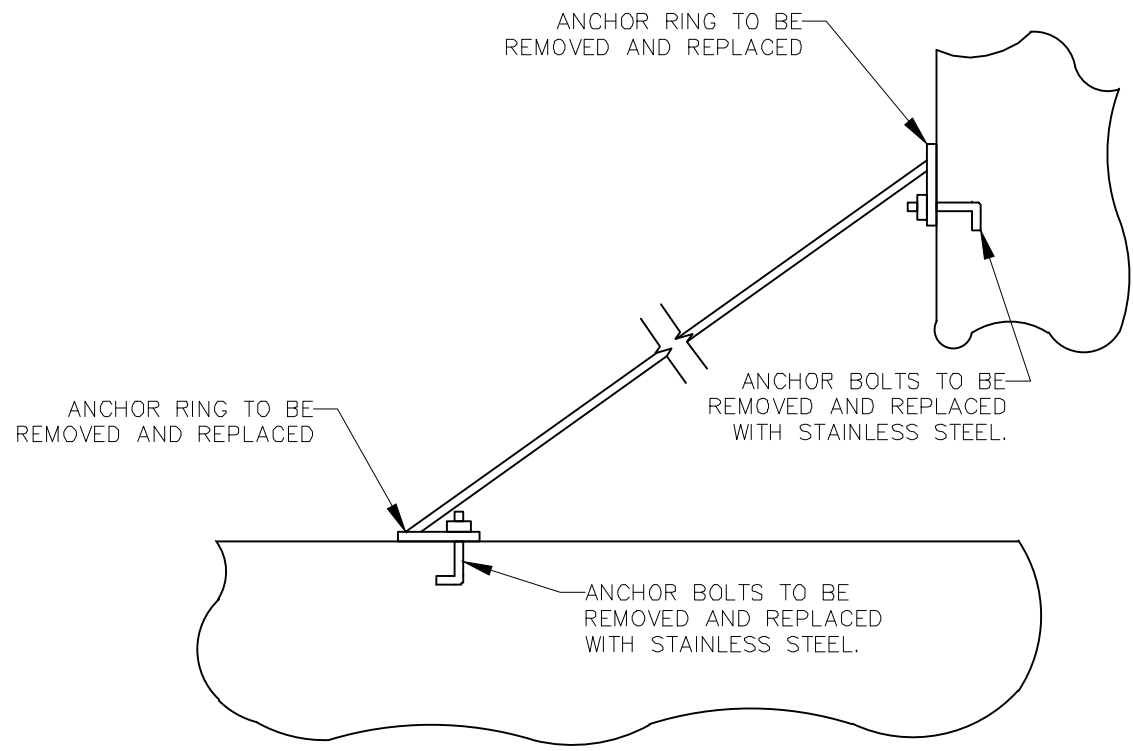
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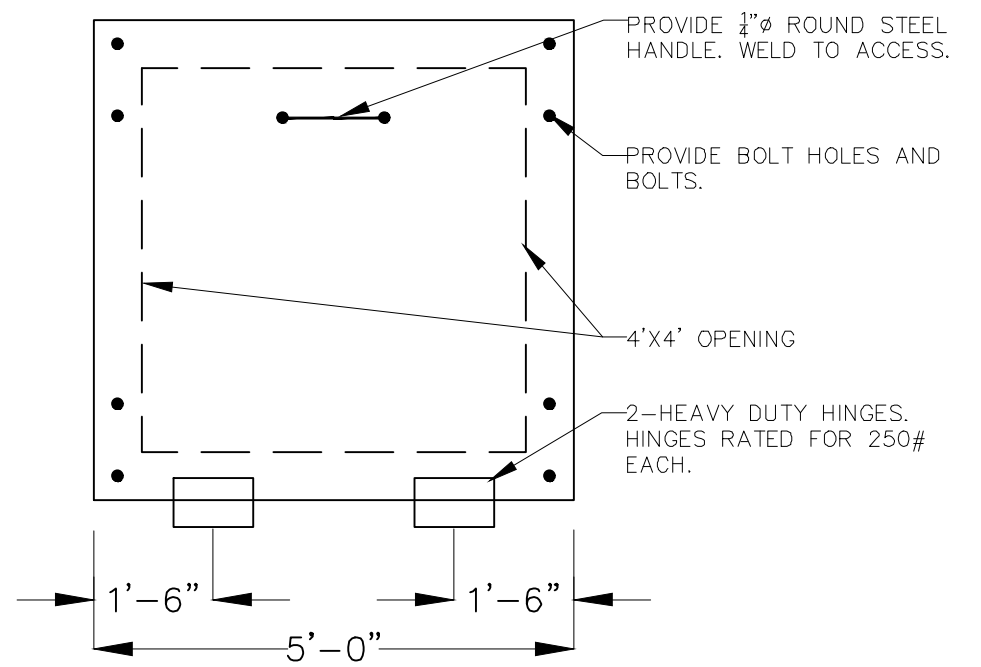


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<p>DRAWN BY: J.M.M.</p>	<p>CHECKED BY: D.W.S.</p>	<p>ACCELERATOR NO. 3 REHABILITATION &amp; IMPROVEMENTS</p>	<p>DATE: 09/19</p>																											
<p>CAD FILE: 17010ACC3-MECH</p>	<p>David W. Schmitt, P.E. Florida Reg. No. 41671</p>	<p>ACCELERATOR PROPOSED TYPICAL SECTION VIEW</p>	<p>SHEET NO.: M-5</p>																											



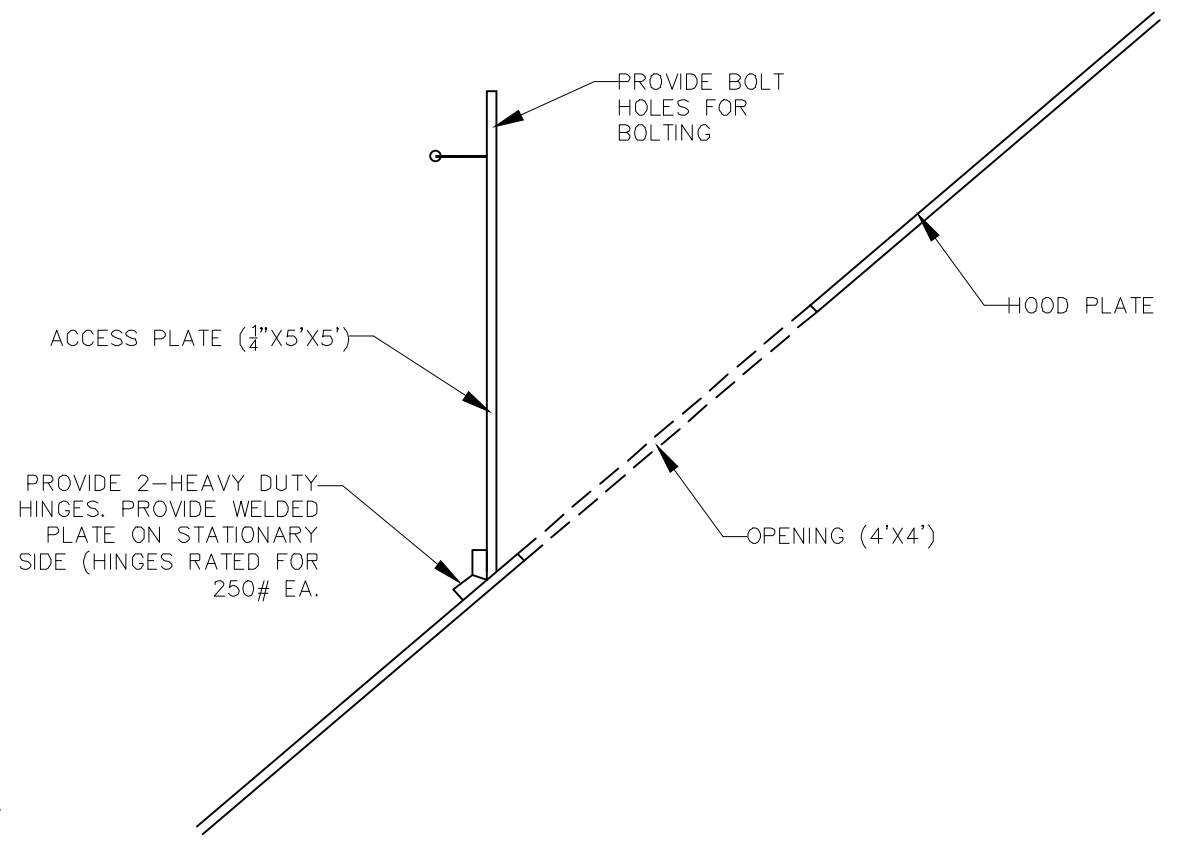
ANCHOR BOLT DETAIL  
NTS



ACCESS PLATE PLAN VIEW DETAIL  
NTS



IN CONJUNCTION WITH NEW WALKWAY CONSTRUCTION, REMOVE AND REPLACE EXISTING 42" PIPE ROLLER CHAIRS. (GRINNEL FIG. NO. 271 FOR 42" PIPE). WALKWAY TO BE COATED AND EXIST. PIPING TOUCHED UP.



ACCESS PLATE SECTION VIEW DETAIL  
NTS

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<p>DRAWN BY: J.M.M.</p>	<p>CHECKED BY: D.W.S.</p>	<p>DATE: 09/19</p>																								
<p>CAD FILE: 17010ACC3-MECH</p>					<p>David W. Schmitt, P.E. Florida Reg. No. 41671</p>	<p>SHEET NO.: M-6</p>																				

# ATTACHMENT B - PROJECT PLAN DOCUMENT

## STRUCTURAL NOTES

### 1010 GENERAL CONDITIONS AND STATEMENTS:

A. STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH JOB SPECIFICATIONS AND ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, AND SITE DRAWINGS. CONSULT THE DRAWINGS FOR DEPRESSIONS, AND OTHER DETAILS NOT SHOWN ON STRUCTURAL DRAWINGS. THE CONTRACTOR SHALL COMPARE AND COORDINATE WITH ALL DISCIPLINES AND REPORT ANY DISCREPANCIES TO ENGINEER PRIOR TO FABRICATION.

B. DIMENSIONS AND CONDITIONS MUST BE VERIFIED IN THE FIELD. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH THE AFFECTED PART OF THE WORK.

C. DO NOT SCALE OFF DRAWINGS OR DETAILS. DIMENSIONS PROVIDED ON PLAN OVERRIDE ANY SCALED DIMENSIONS.

D. DETAILS, NOTES, KEYNOTES OR ANY INFORMATION SHOWN ON ANY PART OF THE DRAWINGS SHALL BE APPLIED TO ALL APPLICABLE OR SIMILAR CONDITIONS AND IF NOTED AS TYPICAL OR SHOWN FOR ONE CONDITION, SHALL BE APPLIED FOR ALL LIKE OR SIMILAR CONDITIONS UNLESS NOTED OTHERWISE. THE CONTRACTOR MUST USE, IN CONJUNCTION WITH STRUCTURAL DRAWINGS, MECHANICAL, ELECTRICAL, PLUMBING AND SITE DRAWINGS TO DETERMINE WHERE CONDITIONS THAT ARE LIKE OR SIMILAR APPLY.

### 1011 CONTRACTOR PROPOSED CHANGES AND SUBSTITUTIONS:

A. PROPOSED CHANGES OR SUBSTITUTIONS TO STRUCTURAL DETAILS OR PLANS SHALL BE SUBMITTED TO THE ENGINEER OF RECORD (EOR) FOR REVIEW AND APPROVAL. SUBMITTALS SHALL CONTAIN FULL DOCUMENTATION OF CHANGES OR SUBSTITUTIONS WITH SUPPORTING, SEALED CALCULATIONS (WHERE APPLICABLE). THE REVIEW OF CHANGES AND SUBSTITUTIONS, RE-ANALYSIS AND/OR RE-DRAFTING TO INCORPORATE CHANGES OR SUBSTITUTIONS INTO CONTRACT DOCUMENTS ARE ADDITIONAL SERVICES FOR EOR. EOR IS NOT RESPONSIBLE FOR DETERMINING THE COST EFFECTIVENESS OF PROPOSED CHANGES.

### 1015 EXISTING STRUCTURE:

INFORMATION SHOWN FOR THE EXISTING STRUCTURE ON THESE DRAWINGS WAS TAKEN FROM THE DRAWINGS THAT WERE:

PREPARED FOR: CITY OF NAPLES, NAPLES, FLORIDA  
PREPARED BY: BLACK, CROW AND EIDNESS ENGINEERS, INC.  
ENTITLED: ACCELATOR TANK NO. 03  
DATED: JUNE 1972

A. WORK SHOWN ON THESE PLANS ASSUMES THAT THE ORIGINAL CONSTRUCTION WAS PERFORMED IN ACCORDANCE WITH THE ABOVE INDICATED ORIGINAL DRAWINGS INCLUDING (BUT NOT LIMITED TO) DIMENSIONS, ELEVATIONS, MEMBER SIZES, MATERIALS, DETAILS, ETC. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE CONDITIONS RELATING TO THE EXISTING STRUCTURE AND TO DETERMINE IF MODIFICATIONS AS INDICATED ON DRAWINGS ARE FEASIBLE AND PRACTICAL. FIELD DIMENSIONS AND SURVEY EXISTING STRUCTURE FOR NEW STRUCTURAL ELEMENTS PRIOR TO FABRICATION. NOTIFY THE ENGINEER IMMEDIATELY OF ANY DISCREPANCIES OR CONFLICTS.

B. PRIOR TO SUBMISSION OF BIDS, THE CONTRACTOR SHALL HAVE VISITED THE SITE AND THOROUGHLY ACQUAINTED HIMSELF WITH THE EXACT NATURE OF THE WORK INDICATED ON THE DRAWINGS AND THE SPECIFICATIONS REQUIREMENTS. FAILURE TO COMPLY WITH THE AFOREMENTIONED REQUIREMENTS SHALL NOT CONSTITUTE A BASIS FOR CLAIMS FOR ADDITIONAL COMPENSATION.

C. PRIOR TO ORDERING ANY MATERIALS OR DOING ANY WORK, THE CONTRACTOR SHALL VERIFY ALL MEASUREMENTS, DIMENSIONS AND OTHER CONDITIONS OF EACH BUILDING SCHEDULED FOR WORK AS MAY BE NECESSARY OR REQUIRED IN THE CONNECTION WITH THIS WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CORRECTNESS OF SAME. PROVIDE TEN WORKING DAYS NOTICE TO THE OWNER PRIOR TO COMMENCING EACH CUTTING OR ALTERATION ACTIVITY.

D. PROTECTION OF EXISTING EQUIPMENT, NEWLY INSTALLED EQUIPMENT, BUILDING AND STRUCTURES:

1. THE CONTRACTOR SHALL FURNISH AND ERECT NECESSARY TEMPORARY DUST TIGHT PROOF PARTITIONS WHERE DEMOLITION IS REQUIRED TO PROTECT EXISTING EQUIPMENT, NEWLY INSTALLED EQUIPMENT, BUILDINGS AND STRUCTURES AND AS DIRECTED BY THE OWNER OR ENGINEER.

2. CONTRACTOR SHALL PROVIDE AN ADEQUATE VENTILATION SYSTEM FOR WORKERS AND FOR DUST REMOVAL. CONTRACTOR SHALL PROVIDE ADEQUATE LIGHTING AS REQUIRED FOR THE WORK.

### 1020 STRUCTURAL DEMOLITION

A. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SELECTING METHODS OF DEMOLITION SO THAT THE REMAINING STRUCTURE WILL NOT BE IMPAIRED OR DAMAGED.

### 1061 DESIGN LOADS:

A. THE STRUCTURAL SYSTEM FOR THIS BUILDING HAS BEEN DESIGNED IN ACCORDANCE WITH THE 6th EDITION OF THE FLORIDA BUILDING CODE (FBC 2017).

B. LIVE LOADS ARE REDUCED FROM THE BASE LIVE LOADS SHOWN AS ALLOWED BY THE REFERENCED BUILDING CODE. THE FOLLOWING SUPERIMPOSED DEAD LOADS AND LIVE LOADS HAVE BEEN UTILIZED:

WALKWAYS / STAIRWAYS: LIVE LOAD - 100 PSF  
SUPERIMPOSED DEAD LOAD - 10 PSF

### C. WIND DESIGN LOADS: ASCE 7-10

H = 16.7 FT Vult = 179 MPH (3 SECOND GUST)  
V90 = 139 MPH (3 SECOND GUST)  
I = 1.0 EXPOSURE C  
Kz = 0.9 Kzt = 1.0  
Kd = 0.85 GCpi = NA  
RISK CATEGORY: IV

BUILDING IS CONSIDERED TO BE OPEN.

### 1120 SUBMITTAL (SHOP DRAWING) REVIEW:

A. SUBMITTALS (SHOP DRAWINGS) WILL BE REVIEWED FOR GENERAL COMPLIANCE WITH THE DESIGN INTENT OF THE CONTRACT DOCUMENTS ONLY. IF ANY DEVIATIONS FROM CONTRACT DOCUMENTS BECOME APPARENT DURING REVIEW, AS A COURTESY, ENGINEER/ARCHITECT MAY MARK UP DEVIATIONS ON SHOP DRAWINGS DURING THE SUBMITTAL PROCESS. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY COMPLIANCE WITH THE CONTRACT DOCUMENTS INCLUDING BUT NOT LIMITED TO QUANTITY, LENGTH, ELEVATIONS AND DIMENSIONS. FABRICATION REQUIREMENTS, CONSTRUCTION MEANS AND METHODS, COORDINATION OF WORK WITH OTHER TRADES OR CONSTRUCTION SAFETY REQUIREMENTS.

B. SHOP DRAWINGS SHALL BE REVIEWED BY THE CONTRACTOR PRIOR TO SUBMITTAL TO THE ARCHITECT/ENGINEER. DRAWINGS SUBMITTED WITHOUT REVIEW, OR IF SUBMITTAL IS INCOMPLETE, WILL BE REJECTED AND WILL BE REVIEWED. TRC WORLDWIDE ENGINEERING, INC. WILL NOT BE RESPONSIBLE FOR DELAYS CAUSED BY REJECTED DRAWINGS.

### 1120 SUBMITTAL (SHOP DRAWING) REVIEW CONTINUED:

C. THE CONTRACT DOCUMENTS WILL GOVERN OVER THE SHOP DRAWINGS UNLESS OTHERWISE SPECIFIED IN WRITING BY THE ENGINEER.

D. CHANGES AND ADDITIONS MADE ON RE-SUBMITTALS SHALL BE CLEARLY FLAGGED AND NOTED. THE PURPOSE OF THE RE-SUBMITTALS SHALL BE CLEARLY NOTED ON THE LETTER OF TRANSMITTAL. ARCHITECT/ENGINEER REVIEW WILL BE LIMITED TO THOSE ITEMS CAUSING THE RE-SUBMITTAL.

### 1122 RFI REVIEW:

A. ALL CONTRACTOR RFI SHALL STATE CONTRACTOR'S SUGGESTION(S) FOR RESOLUTION AND COST IMPLICATIONS FOR SUGGESTION(S). EOR IS NOT RESPONSIBLE FOR DETERMINING COST OR COST EFFECTIVENESS OF RFI RESPONSES.

### 3201 REINFORCING STEEL:

A. ALL REINFORCING STEEL SHALL BE ASTM A615 GRADE 60 DEFORMED BARS (WELDABLE REINFORCING "DBAR") SHALL CONFORM TO ASTM A-706 GRADE 60, FREE FROM OIL, SCALE AND RUST AND PLACED IN ACCORDANCE WITH THE TYPICAL BENDING DIAGRAM AND PLACING DETAILS OF ACI STANDARDS AND SPECIFICATIONS. SECURE APPROVAL OF SHOP DRAWINGS PRIOR TO COMMENCING FABRICATION. REINFORCING BAR DETAILING SHALL COMPLY WITH ACI 315 "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES".

B. UNLESS NOTED OTHERWISE ON SECTIONS AND DETAILS, PROVIDE THE FOLLOWING CONCRETE COVER FOR REINFORCING STEEL:  
REINFORCING STEEL COVER (PRESTRESSED AND NON-PRESTRESSED CONCRETE) CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND

CONCRETE EXPOSED TO WEATHER OR EARTH  
#3 BAR THRU #18 BARS 3"

C. ALL CONTINUOUS BARS SHALL HAVE CLASS B FULL TENSION LAPS UNLESS INDICATED OTHERWISE. PROVIDE CORNER BARS AT ALL WALL, GRADE BEAM AND STRIP FOOTING CORNERS. BARS SHALL BE THE SAME SIZE AND SPACING AS THE HORIZONTAL REINFORCING. INTERSECTING WALLS, GRADE BEAMS AND STRIP FOOTINGS SHALL BE DOWELED TOGETHER IN THE SAME MANNER. PROVIDE 2 NO. 4 TOP DIAGONAL BARS 4'-0" LONG AT ALL REINTRANT CORNERS IN ALL SLABS ON GRADE AND ELEVATED SLABS.

### 3301 CONCRETE:

A. SHALL BE PER AN APPROVED MIX DESIGN PROPORTIONED TO ACHIEVE A STRENGTH AT 28 DAYS AS LISTED BELOW WITH A PLASTIC AND WORKABLE MIX:

4000 PSI - ALL CONCRETE

B. CONCRETE SHALL BE PLACED AND CURED ACCORDING TO ACI 301 STANDARDS AND SPECIFICATIONS.

C. PRIOR TO CONCRETE PLACEMENT, MIX DESIGN SHALL BE SUBMITTED AND ACCEPTED BY ENGINEER FOR USE. MIX DESIGN SHALL INCLUDE THE FOLLOWING:

- MIX DESIGN WHICH SHALL INCLUDE TESTED, STATISTICAL BACK-UP DATA AS PER CHAPTER 5 OF ACI 318.
- ONLY TYPE II CEMENT SHALL BE USED FOR SLAB-ON GRADE CONCRETE.
- CONCRETE MIX DESIGNS SHALL INCLUDE A WRITTEN DESCRIPTION INDICATING WHETHER EACH PARTICULAR MIX IS TO BE PLACED WITHIN THE STRUCTURE. FAILURE TO COMPLY MAY RESULT IN REJECTION OF THE MIX.
- MIX DESIGN SHALL MEET THE REQUIREMENTS OF ASTM C33 FOR COARSE AGGREGATE.
- CALCIUM CHLORIDES SHALL NOT BE UTILIZED
- OTHER ADMIXTURES MAY BE USED ONLY WITH THE APPROVAL OF THE ENGINEER.
- THE CONTRACTOR IS RESPONSIBLE FOR REVIEWING STRUCTURAL DRAWINGS AND SPECIFYING THE USE OF WATER REDUCERS WHERE REINFORCING CONGESTION WARRANTS.

D. CONCRETE DESIGN MIX SUBMITTALS SHALL INCLUDE TESTED, STATISTICAL BACK-UP DATA AS PER CHAPTER 5 OF ACI 318.

E. WATER/CEMENTITIOUS MATERIAL RATIO FOR CONCRETE SHALL NOT EXCEED 0.45 BY WEIGHT.

F. CONFORM TO ACI 306R FOR COLD WEATHER CONCRETING AND ACI 305R FOR HOT WEATHER CONCRETING WHEN ANY COMBINATION OF HIGH TEMPERATURE, LOW RELATIVE HUMIDITY AND WIND VELOCITY TEND TO IMPAIR THE QUALITY OF THE CONCRETE. CONCRETE IS TO BE REJECTED IF ITS TEMPERATURE AT TIME OF PLACEMENT IS 80°F OR ABOVE. PROTECT SURFACES OF EXPOSED CONCRETE FROM PRECIPITATION DAMAGE UNTIL ADEQUATE STRENGTH IS GAINED TO PREVENT DAMAGE.

G. CONCRETE SHALL BE PROPERLY CONSOLIDATED BY MECHANICAL VIBRATORS.

### 3304 CONCRETE TESTING:

A. AN INDEPENDENT TESTING LABORATORY SHALL PERFORM THE FOLLOWING TESTS ON CAST IN PLACE CONCRETE:

- ASTM C143 - "STANDARD TEST METHOD FOR SLUMP OF PORTLAND CEMENT CONCRETE." SLUMP SHALL RANGE FROM 3 TO 5 INCHES.
- ASTM C39 - "STANDARD TEST METHOD FOR COMPRESSIVE STRENGTH OF CYLINDRICAL CONCRETE SPECIMENS."

B. CYLINDERS AND TEST REPORTS SHALL BE CLEARLY LABELED WITH DATE SAMPLED AND WHERE CONCRETE WAS SPECIFICALLY PLACED.

C. TEST REPORTS SHALL BE KEPT AT JOB SITE, WITH COPIES SENT DIRECTLY TO ENGINEER.

### 3601 POST-INSTALLED ANCHORS:

A. POST INSTALLED ANCHORS SHALL ONLY BE USED WHERE SPECIFIED ON THE DRAWINGS.

B. CONTRACTOR SHALL OBTAIN APPROVAL FROM ENGINEER OF RECORD PRIOR TO USING POST-INSTALLED ANCHORS FOR MISSING OR MISPLACED CAST-IN ANCHORS.

C. CARE SHALL BE GIVEN TO AVOID DAMAGING EXISTING REBAR WHEN DRILLING HOLES. HOLES SHALL BE DRILLED AND CLEANED PER MANUFACTURER'S INSTRUCTIONS.

D. UNLESS SPECIFIED OTHERWISE, ANCHORS SHALL BE EMBEDDED IN THE APPROPRIATE SUBSTRATE WITH A MINIMUM EMBEDMENT OF 8 TIMES THE NOMINAL ANCHOR DIAMETER OR THE EMBEDMENT REQUIRED FOR SUPPORT OF THE INTENDED LOAD. ANCHORS SHALL BE INSTALLED PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS AT NOT LESS THAN MINIMUM EDGE DISTANCE AND/OR SPACING INDICATED IN THE MANUFACTURER'S LITERATURE.

### 3601 POST-INSTALLED ANCHORS CONTINUED:

E. SUBSTITUTION REQUESTS FOR PRODUCTS OTHER THAN THOSE LISTED BELOW SHALL BE SUBMITTED TO THE ENGINEER OF RECORD FOR REVIEW AND APPROVAL WITH CALCULATIONS PREPARED, SIGNED AND SEALED BY AN ENGINEER REGISTERED IN THE JURISDICTION OF THE PROJECT SHOWING THAT THE SUBSTITUTED PRODUCT WILL ACHIEVE AN EQUIVALENT CAPACITY USING THE APPROPRIATE DESIGN PROCEDURE.

F. ACCEPTABLE PRODUCTS FOR ANCHORS ARE AS FOLLOWS:

- CONCRETE MECHANICAL ANCHORS:  
-TRUBOLT BY ITW REDHEAD - AISI 316 STAINLESS STEEL  
-KWIK BOLT 3 BY HILTI - AISI 316 STAINLESS STEEL  
-POWER STUD BY POWERS - AISI 316 STAINLESS STEEL
- SCREW ANCHORS:  
-TAPPER BY POWERS - AISI 316 STAINLESS STEEL  
-HUS-H BY HILTI
- CONCRETE OR SOLID GROUTED CMU ADHESIVE ANCHORS:  
-HY 200 MAX BY HILTI - AISI 316 STAINLESS STEEL

### 5101 STRUCTURAL STEEL:

A. ALL STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING UNO ON THE STRUCTURAL DRAWINGS:

WIDE FLANGE SHAPES: ASTM A572 OR ASTM A992 (Fy = 50 KSI)  
CHANNELS, ANGLES, PLATES, BARS: ASTM A36 (Fy = 36 KSI)  
RECTANGULAR TUBES (HSS): ASTM A500 GRADE B (Fy = 46 KSI)  
STRUCTURAL PIPE: ASTM A53 GRADE B (Fy = 35 KSI)  
ROUND TUBES (HSS): ASTM A500 GRADE B (Fy=46 KSI)

B. ALL STRUCTURAL BOLTS (INCLUDING WASHERS AND NUTS) SHALL CONFORM TO THE REQUIREMENTS OF ASTM A 325 OR A490. ALL BOLTS SHALL BE TIGHTENED TO THE SNUG TIGHT CONDITION UNO BOLTING OF STRUCTURAL STEEL SHALL CONFORM TO THE PROVISIONS OF RCSC "SPECIFICATIONS FOR STRUCTURAL JOINTS USING ASTM A 325 AND A490 BOLTS."

C. ANCHOR RODS TO BE ASTM F1554 GRADE 36 UNLESS NOTED OTHERWISE.

D. WELDER QUALIFICATIONS: QUALIFY WELDING PROCESSES AND WELDING OPERATORS IN ACCORDANCE WITH AISC "STANDARD QUALIFICATION PROCEDURE" PER AWS D1.1. OPERATORS SHALL CARRY PROOF OF QUALIFICATIONS ON THEIR PERSONS.

E. TEST REPORTS: (2) COPIES, PLUS THE NUMBER CONTRACTOR WANTS RETURNED, OF STEEL PRODUCER'S REPORT OF MILL ANALYSIS AND TENSILE AND BEND TESTS FOR STRUCTURAL STEEL MADE NO MORE THAN (60) DAYS BEFORE SHIPMENT.

F. CERTIFICATES: TESTING LABORATORY'S CERTIFICATE THAT:

- STRUCTURAL STEEL HAS BEEN FURNISHED AND INSTALLED IN ACCORDANCE WITH CONTRACT DOCUMENTS.
- THE ON-SITE INSPECTIONS HAVE BEEN CONDUCTED AND INSTALLED IN ACCORDANCE WITH THE FIELD QUALITY CONTROL BELOW.

G. TESTING LABORATORY SHALL INSPECT CONNECTIONS IN ACCORDANCE WITH REFERENCES AS FOLLOWS:

1. WELDED CONNECTIONS: INSPECT ALL COMPLETE PENETRATION WELDS AND ALL BUTT WELDS MADE BY FABRICATOR. VISUALLY INSPECT 50% MINIMUM OF FIELD WELDS. SHOULD ANY WELDS FAIL, 100% SHALL BE INSPECTED.

2. BOLTED CONNECTORS: INSPECT AT LEAST 10% OF ALL HIGH STRENGTH BOLTS WHICH ARE WELL SCATTERED THROUGHOUT THE STRUCTURE. IF LESS THAN 95% OF THE BOLTS MEET DESIGN TENSION OR IF ANY BOLT IS LESS THAN 85% OF DESIGN TENSION, THEN ALL BOLTS SHALL BE REWORKED. INSPECT 50% OF ALL REWORKED BOLTS, REPEAT THIS PROCESS UNTIL THE ABOVE REQUIREMENTS ARE MET. LOAD INDICATOR WASHERS MAY BE USED TO TEST 100% OF ALL HIGH STRENGTH BOLTS.

3. FULL PENETRATION GROOVE WELDS SHALL BE INSPECTED BY ULTRASONIC TESTING. TWENTY-FIVE PERCENT OF THE WELDS SHALL BE INSPECTED AT RANDOM UNLESS NOTED OTHERWISE. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

H. COPIES OF TEST RESULTS AND INSPECTION REPORTS SHALL BE SENT DIRECTLY TO THE ENGINEER PRIOR TO STEEL BEING ENCLOSED BY FINISH MATERIALS. STEEL DECK INSTALLATION MUST BE INSPECTED PRIOR TO VISIT BY STRUCTURAL ENGINEER IN ADVANCE OF SCHEDULED CONCRETE DECK POUR.

I. PRE-CONCRETE & PRE-STEEL ERECTION CONFERENCES SHALL BE HELD BY THE CONTRACTOR WITH SUBCONTRACTORS, TESTING LAB PERSONNEL, ARCHITECT, AND ENGINEERS. THESE CONFERENCES SHALL BE HELD WELL IN ADVANCE OF CONSTRUCTION TO ENSURE PROPER INTERPRETATION OF DESIGN INTENT. STEEL ERECTOR SHALL FIELD VERIFY CORRECTNESS OF FOUNDATION, ANCHOR RODS, OR OTHER EXISTING WORK AFFECTING THE STEEL BEFORE STARTING ERECTION.

J. MINIMUM WELD SIZE SHALL BE 3/16" UNLESS OTHERWISE NOTED.

K. GUSSET PLATES SHALL BE 3/8" MINIMUM THICKNESS.

L. SPLICING OF STRUCTURAL STEEL MEMBERS IS PROHIBITED WITHOUT PRIOR APPROVAL OF THE ENGINEER AS TO LOCATION AND TYPE OF SPLICE TO BE MADE. ANY MEMBER HAVING A SPLICE NOT SHOWN AND DETAILED ON SHOP DRAWINGS WILL BE REJECTED.

### 5150 ALUMINUM BAR GRATING:

SHALL BE 19-SG-2 ALUMINUM GRATING 1 3/4"x3/16"

SEE PLANS FOR SPECIFICS

BAND ALL GRATING AT OUTSIDE EDGES AND AT ALL OPENINGS, SUCH AS FOR PIPE PENETRATIONS.

ALUMINUM STAIR TREADS SHALL BE BORDEN TYPE WITH 1 1/2"x3/16" BEARING BARS AND CAST ALUMINUM ABRASIVE NOSING.

### 9960 HIGH PERFORMANCE COATINGS

A. HIGH PERFORMANCE COATINGS SHALL BE BY TNEDEC COMPANY, INC.

B. SUBMIT PRODUCT DATA SHEETS AND SAMPLES OF PRODUCT APPLICATION FOR APPROVAL.

C. USE MANUFACTURER RECOMMENDED TECHNIQUES SUITED FOR COATING APPLICATION.

D. EXAMINE SUBSTRATES AND CONDITIONS, WITH APPLICATOR PRESENT, FOR COMPLIANCE WITH REQUIREMENTS FOR MOISTURE CONTENT AND OTHER CONDITIONS AFFECTING PERFORMANCE OF WORK.

E. VERIFY COMPATIBILITY AND SUITABILITY OF SUBSTRATES, INCLUDING COMPATIBILITY WITH EXISTING FINISHES OR PRIMERS.

F. COMPLY WITH MANUFACTURER'S WRITTEN INSTRUCTIONS AND RECOMMENDATIONS IN "MPI ARCHITECTURAL PAINTING SPECIFICATION MANUAL" APPLICABLE TO SUBSTRATES INDICATED.

G. REMOVE PLATES, MACHINED SURFACES AND SIMILAR ITEMS ALREADY IN PLACE THAT ARE NOT TO BE COATED. IF REMOVAL IS IMPRACTICAL BECAUSE OF SIZE OR WEIGHT OF ITEM, PROVIDE SURFACE-APPLIED PROTECTION BEFORE SURFACE PREPARATION AND COATING.

SHT #	DESCRIPTION
S1	STRUCTURAL NOTES
S2	ACCELERATOR PLAN VIEWS
S3	ACCELERATOR PLAN VIEWS
S4	REPAIR DETAILS
SPD.01	WALKWAY PLAN VIEWS-DEMOLITION
SS	WALKWAY PLAN VIEWS-PROPOSED
S6	SECTIONS AND DETAILS
S7	SECTIONS AND DETAILS

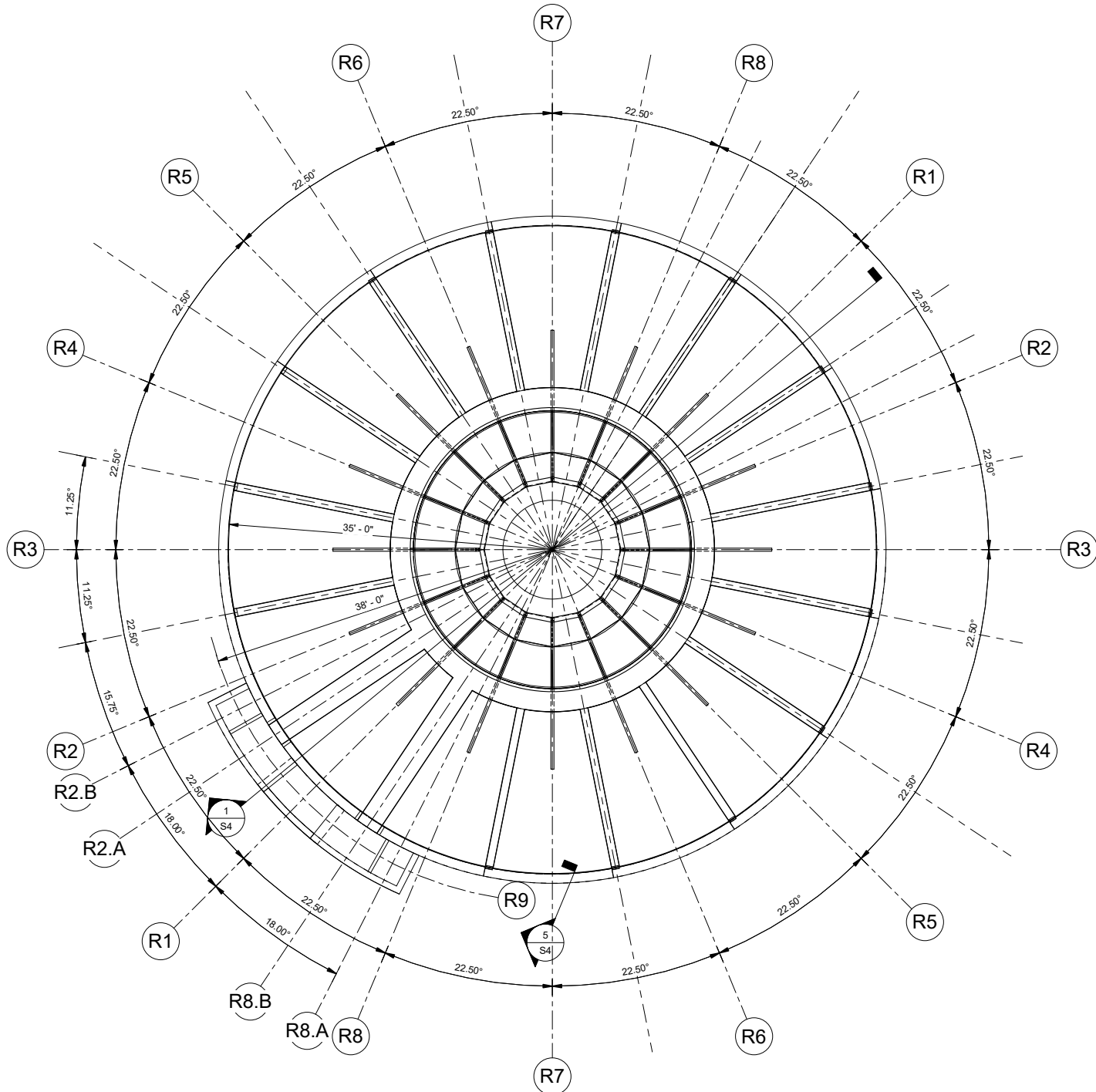
### SHEET INDEX

### ABBREVIATIONS

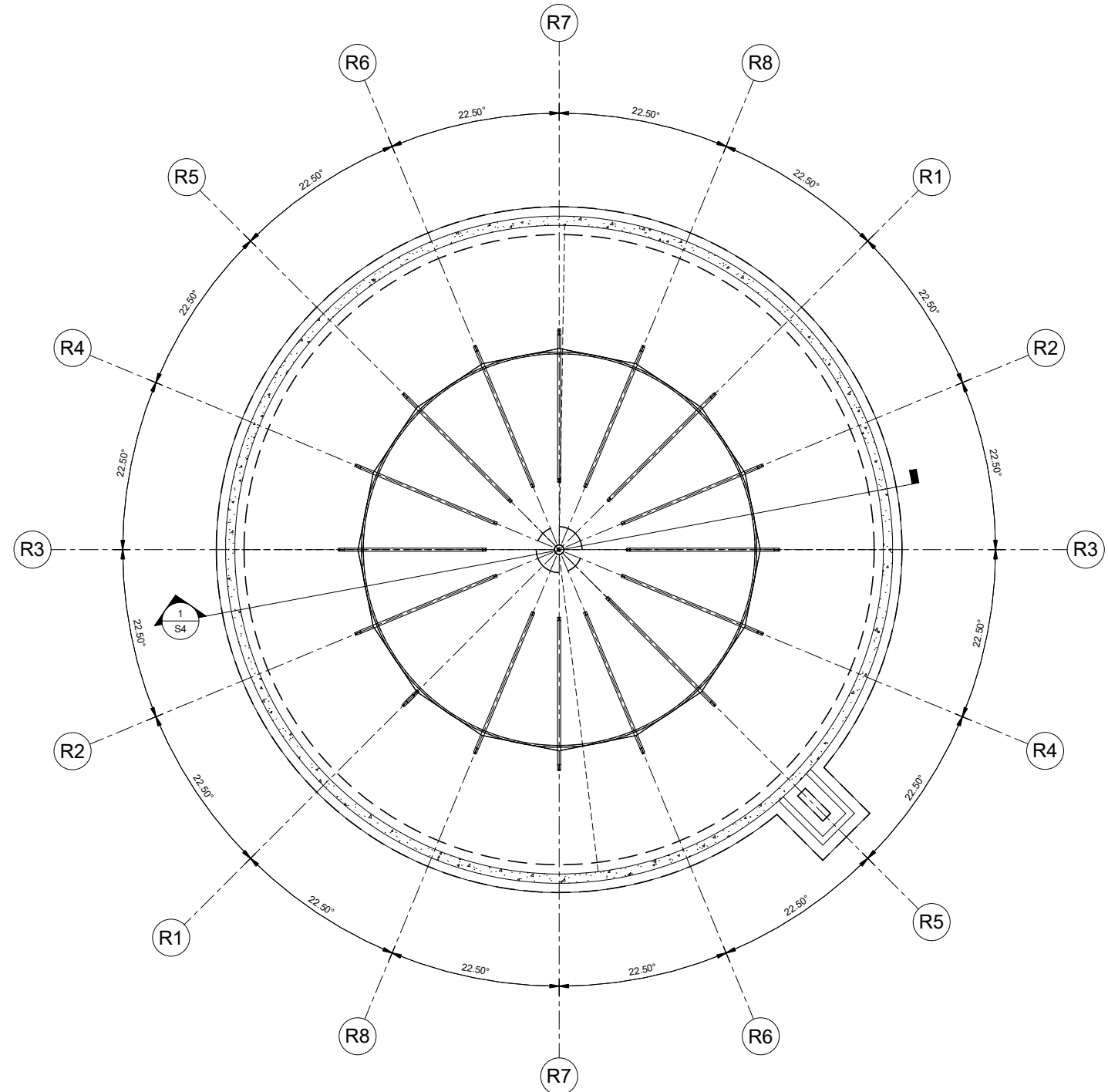
AR	- ANCHOR ROD	K	- KIP(S) 1000 POUNDS
ALT	- ALTERNATE	KLF	- KIPS PER LINEAR FOOT
APPROX	- APPROXIMATELY	KJ	- CONSTRUCTION JOINT
ARCH	- ARCHITECT	L	- ANGLE
ARCHL	- ARCHITECTURAL	LG	- LONG
B/	- BOTTOM OF	LLH	- LONG LEG HORIZONTAL
BC	- BOTTOM CHORD	LLV	- LONG LEG VERTICAL
BLDG	- BUILDING	LP	- LOW POINT
BM	- BEAM	LW	- LONG WAY
BOTT	- BOTTOM	LWT	- LIGHTWEIGHT
BRG	- BEARING	MFR	- MANUFACTURER
C/C	- CENTER TO CENTER	MAS	- MASONRY
CIP	- CAST IN PLACE	MO	- MASONRY OPENING
CJ	- CONTRACTION JOINT	MATL	- MATERIAL
CL	- CENTERLINE	MAX	- MAXIMUM
CLR	- CLEAR	MECHL	- MECHANICAL
CMU	- CONCRETE MASONRY UNIT	MTL	- METAL
COL	- COLUMN	MIN	- MINIMUM
CONC	- CONCRETE	MISC	- MISCELLANEOUS
CONFIG	- CONFIGURATION	NS	- NEAR SIDE
CONT	- CONTINUOUS	NIC	- NOT IN CONTRACT
CONTR	- CONTRACTOR	NTS	- NOT TO SCALE
NR	- NOMINAL WEIGHT	OC	- ON CENTER
DBL	- DOUBLE	OH	- OPPOSITE HAND
DET	- DETAIL	OPNG	- OPENING
DIA	- DIAMETER	PAF	- POWER ACTUATED FASTENERS
DIM	- DIMENSION	PART	- PARTITION
DN	- DOWN	PARTL	- PARTIAL
DWG	- DRAWING	PCJ	- PRECAST CONCRETE JOIST
EE	- EACH END	PLF	- POUNDS PER LINEAR FOOT
EF	- EACH FACE	PSF	- POUNDS PER SQUARE FOOT
EJ	- EXPANSION JOINT	PSI	- POUNDS PER SQUARE INCH
EL	- ELEVATION	PT	- POST TENSIONED
ELEV	- ELEVATOR	PT	- PRESSURE TREATED
ENGR	- ENGINEER	R	- RADIUS
EOR	- ENGINEER OF RECORD	REG	- REGULAR
EOS	- EDGE OF SLAB	REIN	- REINFORCING
EQ	- EQUAL	REM	- REMAINDER
EW	- EACH WAY	REQD	- REQUIRED
EXIST	- EXISTING	REV	- REVISED/REVISION
EXP	- EXPANSION	RM	- ROOM
EXT	- EXTERIOR	RO	- ROUGH OPENING
FIN	- FINISH	ROMTS	- REQUIREMENTS
FLR	- FLOOR	SCHED	- SCHEDULE
FND	- FOUNDATION	SECT	- SECTION
FOM	- FACE OF MASONRY	SIM	- SIMILAR
FS	- FAR SIDE	SL	- SLOPE
FT	- FOOT	SOG	- SLAB-ON-GRADE
FTG	- FOOTING	SP	- SPIRAL
GA	- GAGE	SQ	- SQUARE
GALV	- GALVANIZED	SS	- STAINLESS STEEL
GC	- GENERAL CONTRACTOR	STD	- STANDARD
GT	- GIRDER TRUSS	STL	- STEEL
HC	- HOLLOW CORE	STRUCTL	- STRUCTURAL
HCP	- HOLLOW CORE PLANK	SW#	- SHEARWALL
HDG	- HOT DIPPED GALVANIZED	SW	- SHORT WAY
HG	- HIP GIRDER	T/	- TOP OF
HK	- HOOK	TB	- TIE BEAM
HORIZ	- HORIZONTAL	TC	- TIE COLUMN
HP	- HIGH POINT	TEMP	- TEMPERATURE
HS	- HIGH STRENGTH	TJ	- TIE JOIST
IJ	- ISOLATION JOINT	TR	- TRUSS
INFO	- INFORMATION	TYP	- TYPICAL
INS	- INSULATION	UNO	- UNLESS NOTED OTHERWISE
INT	- INTERIOR	VERT	- VERTICAL
IRR	- IRREGULAR	W/	- WITHOUT
JB	- JOIST BEARING	W/O	- WITHOUT
JBE	- JOIST BEARING ELEVATION	WD	- WOOD
JR	- JAMB REINFORCING	WP	- WORK POINT
JT	- JOINT	WWR	- WELDED WIRE REINFORCING

### LEGEND

ITEM	SYMBOL	ITEM	SYMBOL
CONCRETE (PLAN)		TOP OF FOOTING ELEVATION	
CONCRETE (SECTION)		SPOT ELEVATION TOP OF CONCRETE	
EARTH		STEP IN FTG., GRADE BM. OR OTHER STRUCTURAL ELEMENT	
LOAD BEARING CONCRETE BLOCK (CMU)		¢ BEAM SPLICE	
BRICK		AND	&
		PLATE	⊞
		CENTERLINE	⊞
SECTION INDICATOR		NUMBER (PRECEEDING)	#, NO.
DETAIL INDICATOR		PLUS OR TENSION	+
TOP REBAR		MINUS OR COMPRESSION	-
BOTTOM REBAR		POUNDS (FOLLOWING)	#
		STEP IN STRUCTURE OR DEPRESSED SLAB	
		TOP OF STEEL ELEVATION	
<b>COLUMN SYMBOLS</b>		<b>REINF SYMBOLS</b>	
	INDICATES COLUMN BELOW		COLUMN/PLASTER MARK
	INDICATES COLUMN THRU		FOOTING MARK
	INDICATES COLUMN ABOVE		TOP OF FOOTING ELEVATION



2 T/O TANK  
S2 1/8" = 1'-0"



1 B/O TANK  
S2 1/8" = 1'-0"

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FOR 11x17 THE SCALE IS 50% OF THE SCALE SHOWN.

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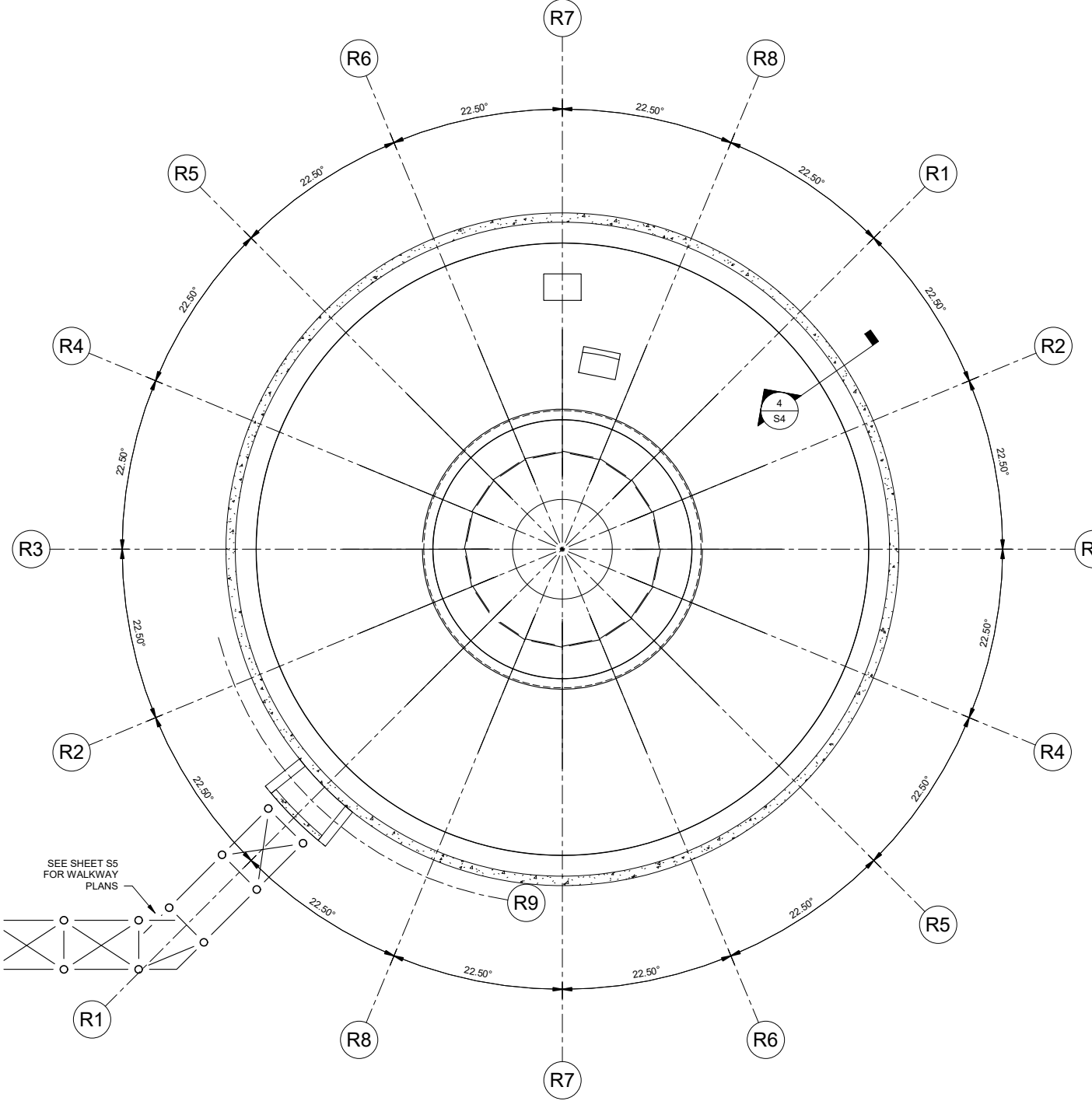
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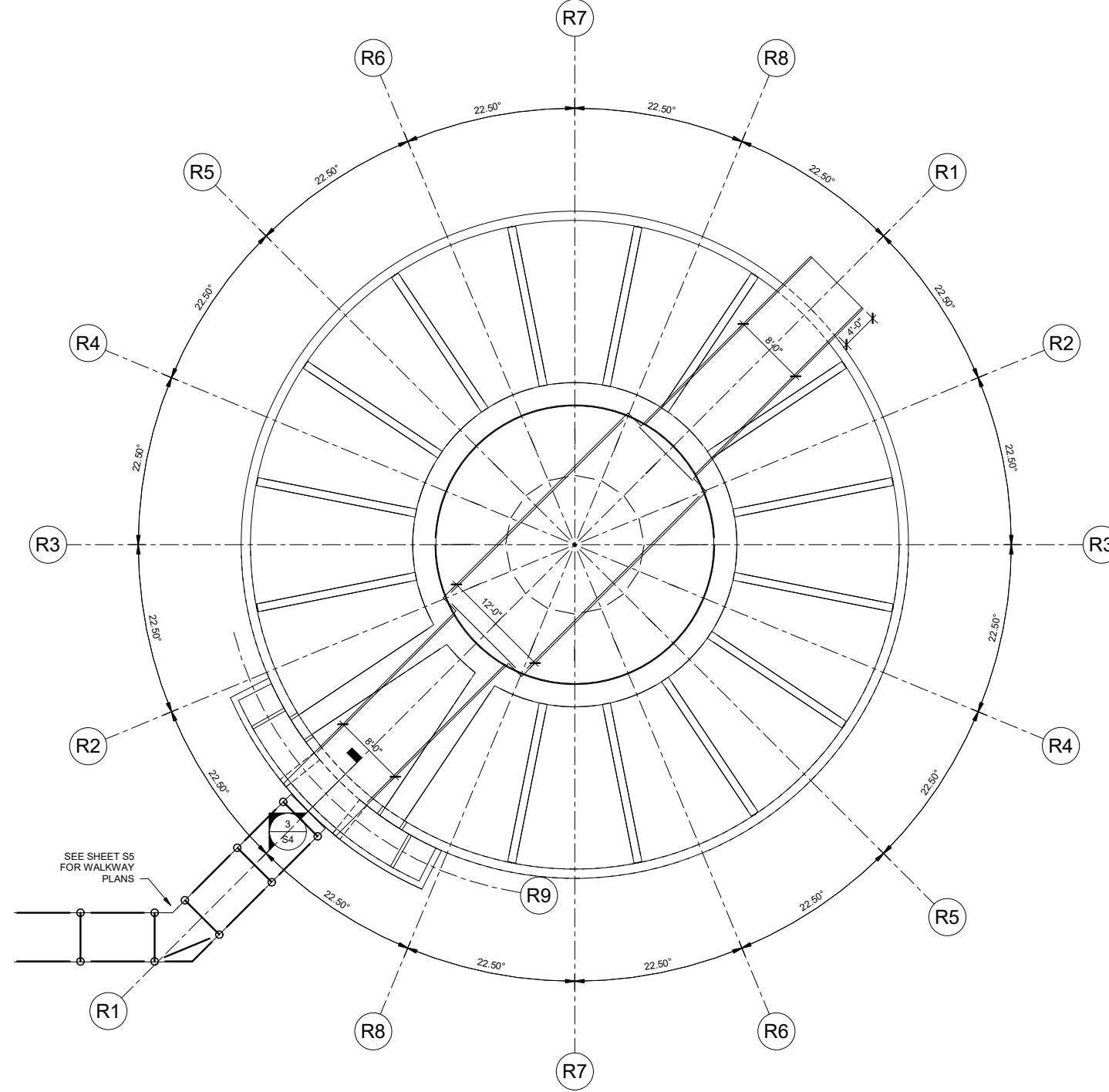


CITY OF NAPLES  
CITY OF NAPLES WATER TREATMENT PLANT  
ACCELERATOR NO. 3 REHABILITATION & IMPROVEMENT  
ACCELERATOR PLAN VIEWS

PROJECT NO.:	2017C.010
DATE:	OCTOBER 2019
SHEET NO.:	S2



1 T.O. DECK PLATE  
S3 1/8" = 1'-0"



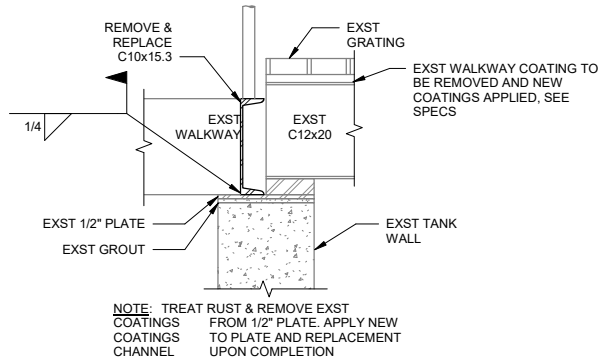
2 T.O. GRATING  
S3 1/8" = 1'-0"

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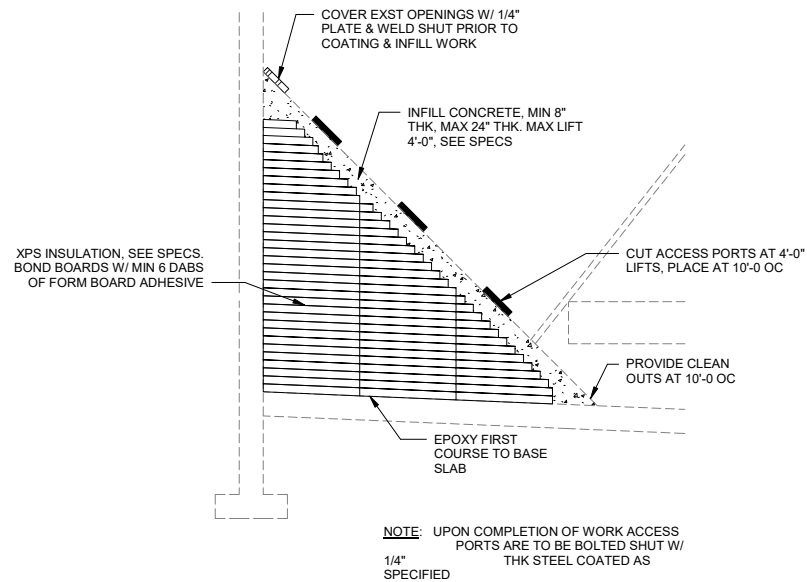
11/15/2019 2:10:00 PM BM 3601187121218 City of Naples WTP-Accelerator # 3 S3 Revisions & Related PDF Files to: napleswtp@centralfla.gov

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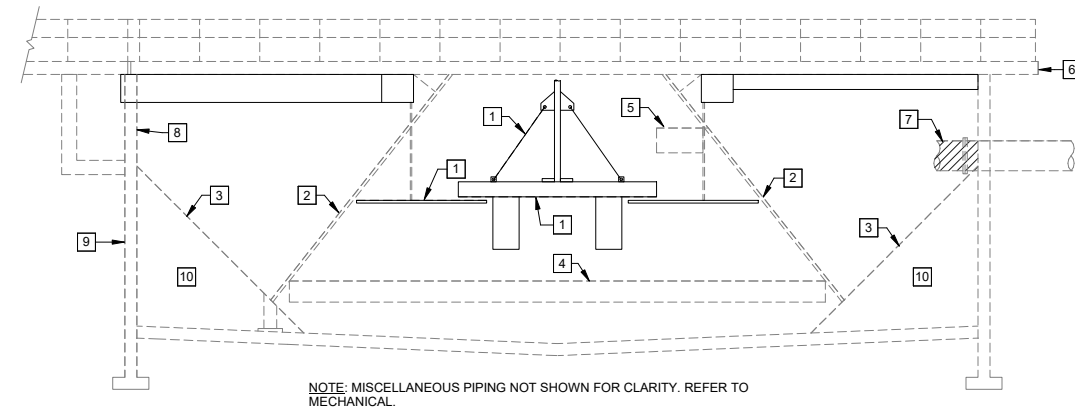
<p>TRC WORLDWIDE ENGINEERING</p> <p>CERTIFICATE OF AUTHORIZATION NO. 27322 11926 FAIRWAY LAKES DR. FORT MYERS, FL 33913 PHONE: (239) 939-1414 FAX: (239) 278-4289 © 2019 TRC Worldwide Eng. Inc. All rights reserved. PROJ No. 19FTM218</p>			<p>HOLE MONTES ENGINEERS - PLANNERS - SURVEYORS LANDSCAPE ARCHITECTS</p>	<p>950 Encore Way Naples, FL 34110 Phone: (239) 254-2000 Florida Certificate of Authorization No. 1772</p>	DESIGN BY: PSM	<p>CITY OF NAPLES ON THE GULF</p>	<p>CITY OF NAPLES CITY OF NAPLES WATER TREATMENT PLANT ACCELERATOR NO. 3 REHABILITATION &amp; IMPROVEMENT ACCELERATOR PLAN VIEWS</p>	PROJECT NO.: 2017C.010
	DRAWN BY: SC	<p>Paul S. Moerschel Florida Reg. No. 60487</p>			DATE: OCTOBER 2019			
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					CAD FILE:			



3 WALKWAY SUPPORT REPAIR DETAIL  
S4 1" = 1'-0"

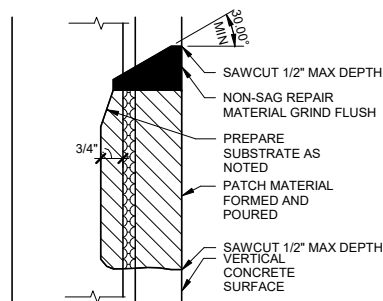


2 VOID SPACE INFILL DETAIL  
S4 3" = 1'-0"



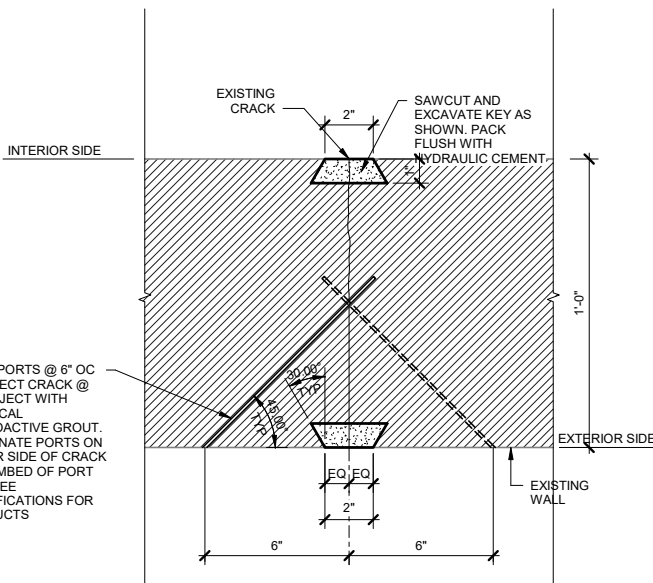
1 SECTION  
S4 1 1/2" = 1'-0"

KEYNOTES	
KEY	DESCRIPTION
1	NEW ROTOR IMPELLER ASSEMBLY, DECK PLATE ASSEMBLY, ROTOR SHAFT, AND TIE-RODS TO RECEIVE COATINGS.
2	EXISTING COATINGS ON HOOD PLATES AND SUPPORT RAFTERS TO BE REMOVED AND NEW COATINGS APPLIED, BOTH SIDES.
3	EXISTING COATINGS ON SLOPE STEEL PLATE TO BE REMOVED AND NEW COATINGS APPLIED, BOTH SIDES. INTERIOR COATING TO BE COMPLETED PRIOR TO BEGINNING INFILL WORK.
4	EXISTING COATINGS ON STEEL SKIRT TO BE REMOVED AND NEW COATINGS APPLIED, BOTH SIDES.
5	EXISTING COATINGS ON REMOVABLE BAFFLES TO BE REMOVED AND NEW COATINGS APPLIED, BOTH SIDES.
6	EXISTING COATINGS ON STEEL WALKWAY SUPPORT FRAMING TO BE REMOVED AND NEW COATINGS APPLIED.
7	APPLY NEW COATINGS TO EXISTING 30" INFLUENT PIPE EXPOSED WITHIN ACCELERATOR.
8	PREPARE SURFACE AND APPLY HIGH PERFORMANCE COATING TO INSIDE FACE OF ACCELERATOR ABOVE SLOPE STEEL PLATE, INSIDE EFFLUENT CHAMBER, AND ALL WALL CAPS.
9	OPTIONAL PER OWNER: PREPARE SURFACE AND APPLY NEW COATINGS TO EXTERIOR FACE OF STRUCTURE. COATINGS ARE TO BE APPLIED UPON COMPLETION AND APPROVAL OF CRACK INJECTION WORK.
10	IN-FILL EXISTING VOID SPACE WITH EXTRUDED POLYSTYRENE FOAM AND LIGHTWEIGHT CONCRETE. SEE DETAIL 2/S4.

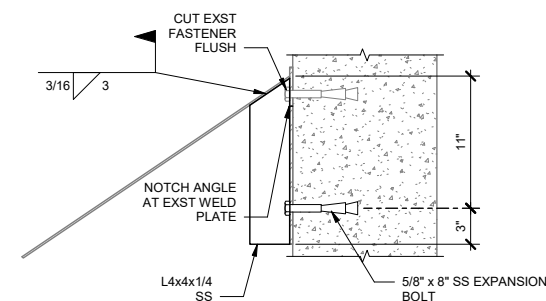


6 CONCRETE WALL FACE REPAIR  
S4 1/8" = 1'-0"

**GENERAL PREPARATION:**  
SAWCUT EDGE OF EFFECTED AREA USING A STRAIGHT EDGED REGULAR SHAPED PATTERN. CHIP ALL LOOSE AND DETERIORATED CONCRETE TO SOUND CONCRETE. IF PRESENT, CLEAN ALL EXPOSED STEEL AND REMOVE LOOSE RUST BY OIL FREE ABRASIVE BLAST.  
COAT EXPOSED STEEL WITH ANTI-CORROSION AND BONDING AGENT PER MANUFACTURER RECOMMENDATIONS. FORM AND POUR EXCAVATED AREA USING AGGREGATE EXTENDED REPAIR MORTAR PER MANUFACTURERS RECOMMENDATIONS.  
PATCH NOTCHED POUR SPACE AT TOP OF REPAIR WITH NON-SAG POLYMER MODIFIED MORTAR SUITABLE FOR VERTICAL PLACEMENT. CURE PER MANUFACTURERS RECOMMENDATIONS. IF MORE THAN 20% OF REINFORCING BAR CROSS SECTIONAL AREA HAS BEEN LOST DUE TO CORROSION, CONTACT ENGINEER.



5 WALL CRACK REPAIR SECTION  
S4 3" = 1'-0"



4 SLOPED STEEL BAFFLE FASTENING REPAIR DETAIL  
S4 1 1/2" = 1'-0"

BAA 3603 1/18/2019 City of Naples WTPA-Accessories 4E & S1 Revisions & Details 09/12/2019-10:00:00 AM

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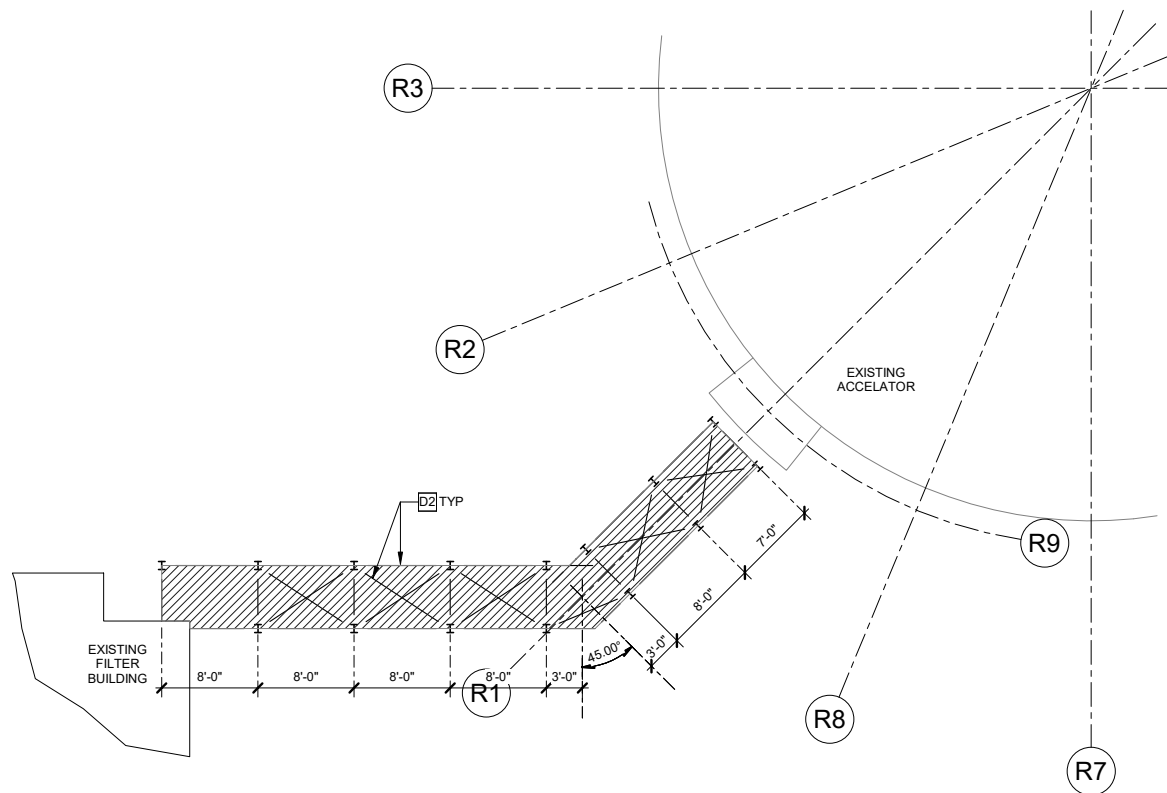


CITY OF NAPLES  
CITY OF NAPLES WATER TREATMENT PLANT  
ACCELERATOR NO. 3 REHABILITATION & IMPROVEMENT

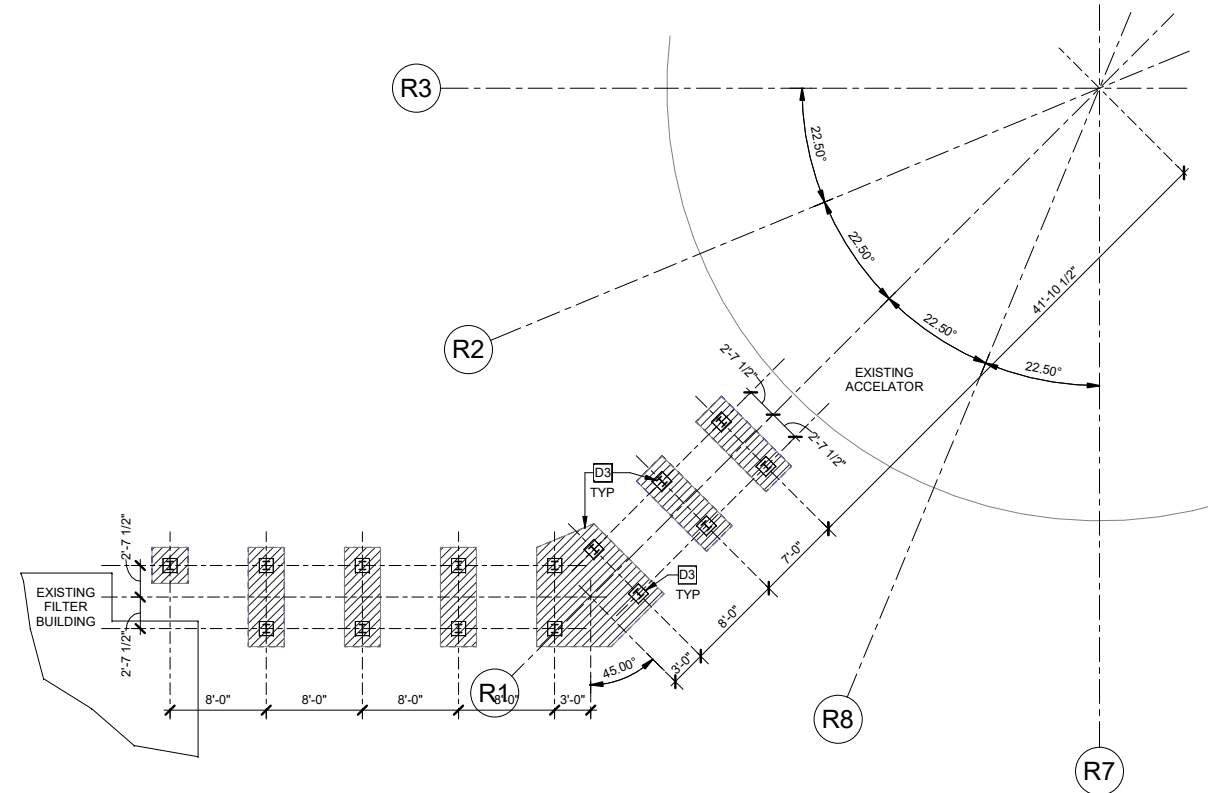
REPAIR DETAILS

PROJECT NO.:	2017C.010
DATE:	OCTOBER 2019
SHEET NO.:	S4

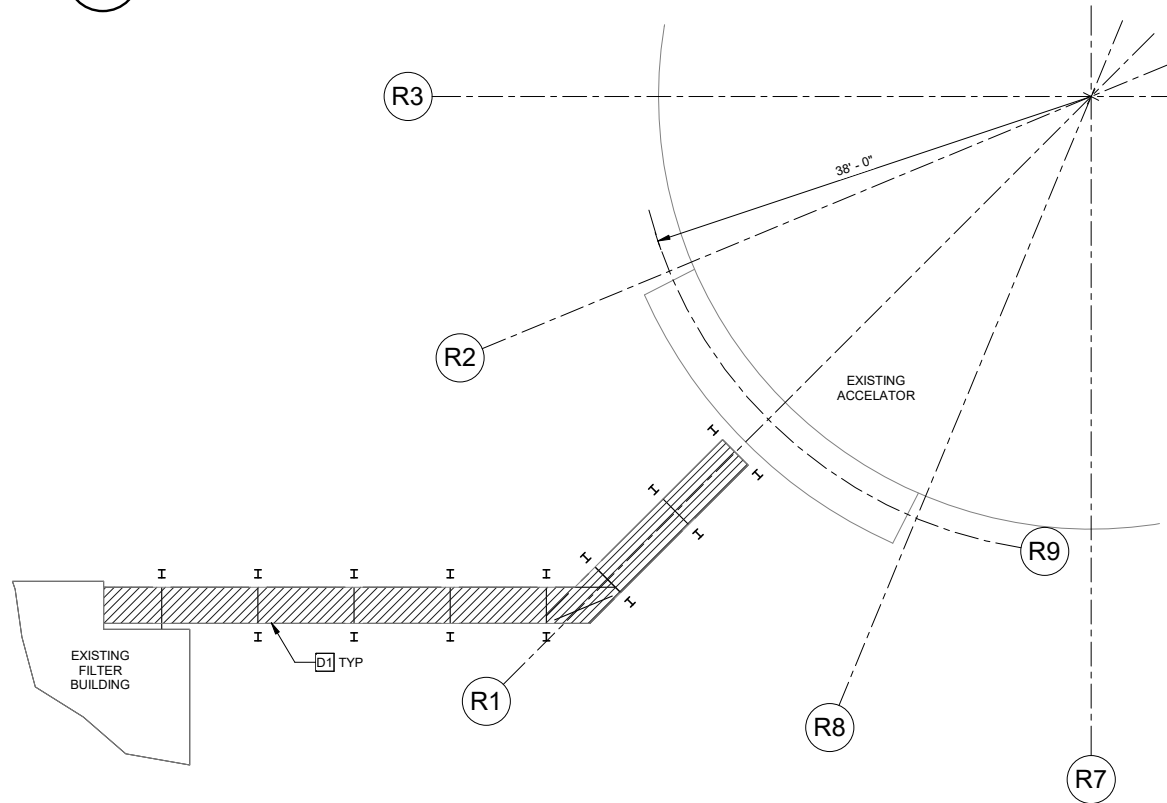
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FOR 11x17 THE SCALE IS 50% OF THE SCALE SHOWN.



**2** PIPE SUPPORT FRAMING PLAN - DEMOLITION  
SPD.01 1/8" = 1'-0"



**1** FOUNDATION PLAN - DEMOLITION  
SPD.01 1/8" = 1'-0"



**3** WALKWAY FRAMING PLAN - DEMOLITION  
SPD.01 1/8" = 1'-0"

KEYNOTES	
KEY	DESCRIPTION
D1	REMOVE AND PROPERLY DISPOSE OF EXISTING STEEL AT WALKWAY INCLUDING STAIRS AND WALKWAY RAILINGS
D2	REMOVE AND PROPERLY DISPOSE OF EXISTING STEEL PIPE SUPPORT FRAMING
D3	REMOVE AND PROPERLY DISPOSE OF EXISTING STEEL COLUMNS, CONCRETE PEDESTALS AND EXISTING FOUNDATIONS

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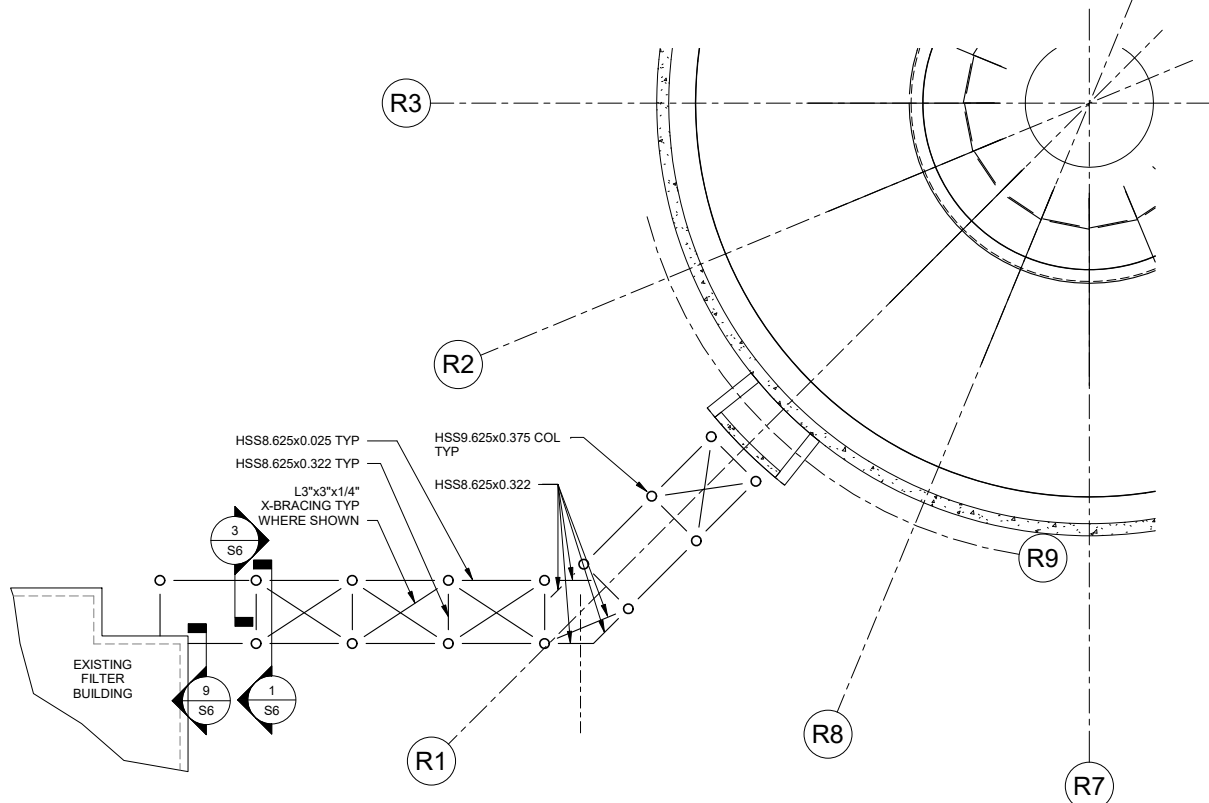
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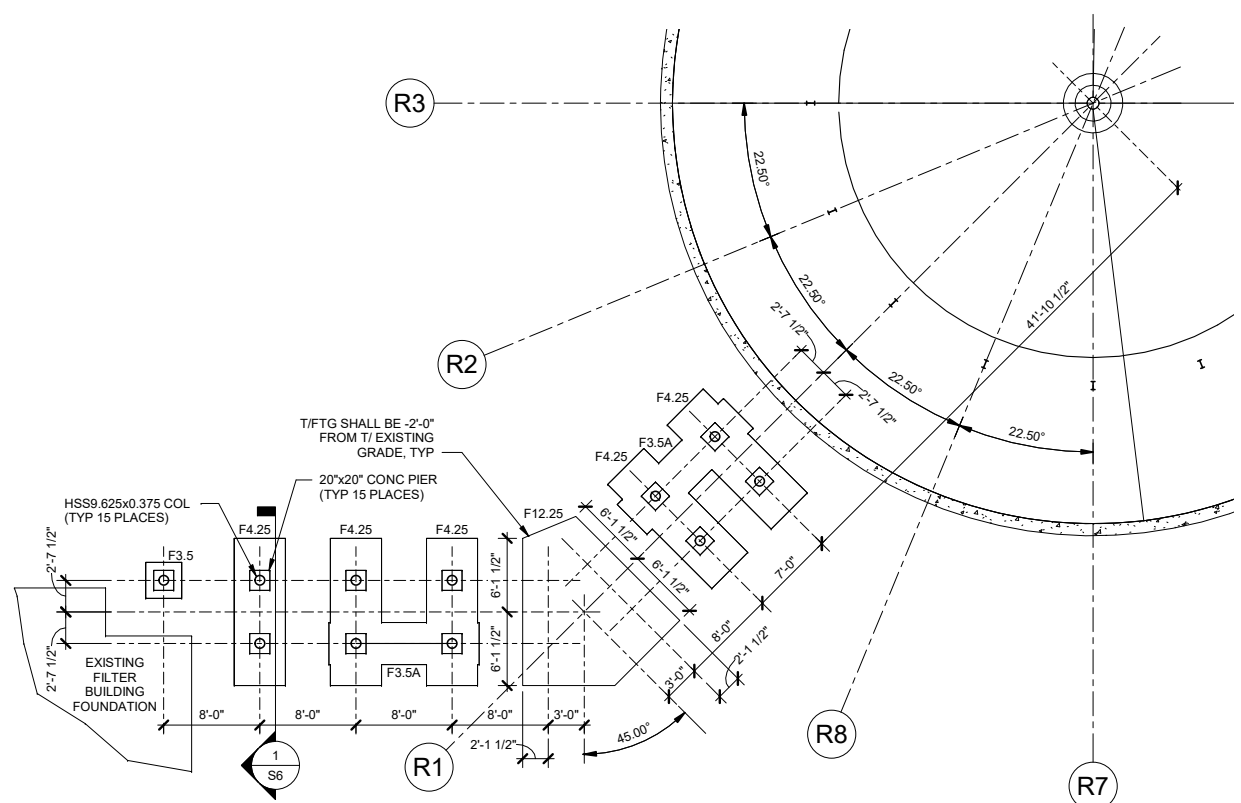
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CITY OF NAPLES WATER TREATMENT PLANT  
ACCELERATOR NO. 3 REHABILITATION & IMPROVEMENT  
WALKWAY PLAN VIEWS-DEMOLITION

PROJECT NO.:	2017C.010
DATE:	OCTOBER 2019
SHEET NO.:	SPD.01

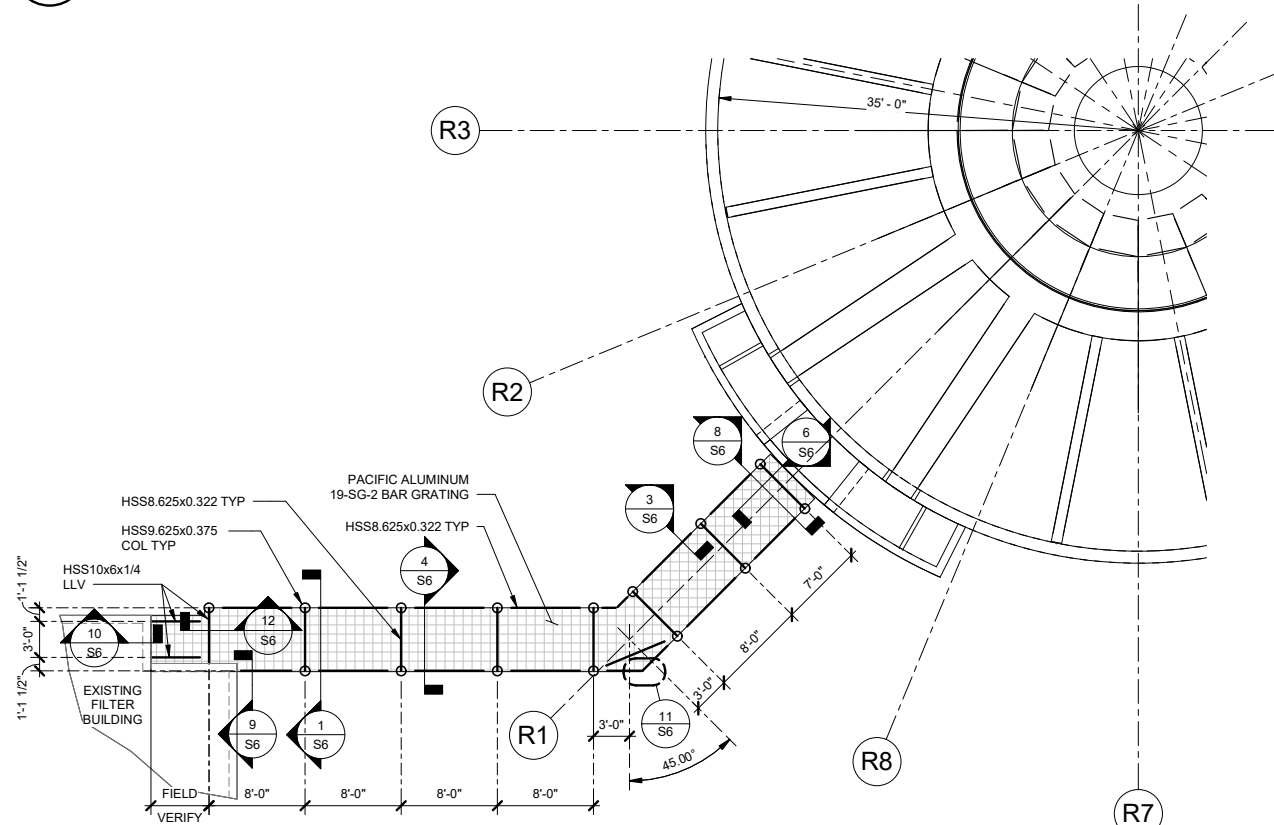
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2 PIPE SUPPORT FRAMING PLAN - PROPOSED  
S5 1/8" = 1'-0"



1 FOUNDATION PLAN - PROPOSED  
S5 1/8" = 1'-0"



3 WALKWAY FRAMING PLAN - PROPOSED  
S5 1/8" = 1'-0"

FOOTING SCHEDULE							
TYPE	LENGTH	WIDTH	THICKNESS	BOTTOM REINFORCING LONG WAY	BOTTOM REINFORCING SHORT WAY	TOP REINFORCING LONG WAY	TOP REINFORCING SHORT WAY
F3.5	3'-6"	3'-6"	1'-4"	(4)#5	(4)#5	(4)#5	(4)#5
F3.5A	12'-6"	3'-6"	1'-4"	(4)#5	(14)#5	(4)#5	(14)#5
F4.25	12'-3"	4'-3"	1'-4"	(5)#5	(17)#5	(5)#5	(17)#5
F12.25	12'-3" SEE PLAN	SEE PLAN	1'-4"	#5@10" EA WAY T&B			

NOTE: UPON COMPLETION OF STEEL ERECTION, ALL NEW STEEL FRAMING SHALL RECEIVE HIGH PERFORMANCE COATING IN ACCORDANCE TO PROJECT SPECIFICATIONS.

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CITY OF NAPLES  
CITY OF NAPLES WATER TREATMENT PLANT  
ACCELERATOR NO. 3 REHABILITATION & IMPROVEMENT  
WALKWAY PLAN VIEWS-PROPOSED

PROJECT NO.:	2017C.010
DATE:	OCTOBER 2019
SHEET NO.:	S5

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