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G:\1540\4658-02 E Edinburg WTP Reservoir Imps (2019-05)\08 Const Doc Ph\08.01 IFB Dwg\Sheet_Files\003 0000G-003.dwg

SHEET INDEX		
SHT NO	DWG NO	DESCRIPTION
1	0000G-001	COVER SHEET
2	0000G-002	LOCATION AND VICINITY MAPS
3	0000G-003	SHEET INDEX
4	0000G-004	GENERAL NOTES (1 OF 1)
5	0000G-005	COMMON SYMBOLOGY AND PROCESS FUNCTIONS ABBREVIATIONS

SERIES 0100 RESERVOIR MODIFICATIONS

SHT NO	DWG NO	DESCRIPTION
6	0100C-001	NEW CONSTRUCTION KEY MAP
7	0100C-002	PROPOSED CELL 5 GATEWELL, PIPE, AND PIPE END SECTION PLAN AND PROFILE
8	0100S-001	CELL 5 GATEWELL DETAIL (SHEET 1 OF 2)
9	0100S-002	CELL 5 GATEWELL DETAIL (SHEET 2 OF 2)
10	0100S-003	CELL 5 GATEWELL STAIR DETAILS
11	0100S-004	CELL 5 GATEWELL RAILING DETAILS
12	0100S-005	CELL 5 GATEWELL GRATE REPAIR DETAILS
13	0100S-006	CELL 5 GATEWELL PIPE END SECTION & SLOPE PROTECTION DETAILS
14	0100C-003	PROPOSED CELL 1 PIPE AND HEADWALL PLAN AND PROFILE
15	0100C-004	PROPOSED CELL 2 PIPE AND HEADWALL PLAN AND PROFILE
16	0100S-007	CELL 1 & 2 SLOPE PROTECTION DETAIL
17	0100C-005	DIKE/PIPE EXCAVATION/BACKFILL DIAGRAM
18	0100S-008	CELL 1 AND 2 HEADWALL DETAIL
19	0100S-009	CELL 1 AND 2 DUCKBILL CHECK VALVE DETAIL
20	0100S-010	SLUICE GATE KEY MAP
21	0100S-011	STAND PIPE #1
22	0100S-012	STAND PIPE #2
23	0100S-013	SPLITTER BOX #3
24	0100S-014	GATEWELL #4
25	0100S-015	GATEWELL #9
26	0100S-016	GATEWELL #5
27	0100S-017	STAND PIPE #6
28	0100S-018	STAND PIPE #7
29	0100S-019	SLUICE GATE STEM INSTALLATION DETAILS (SHEET 1 OF 1)
30	EC(1)-09	SW3P: FENCE & BALED HAY
31	EC(3)-93	SW3P: CONSTRUCTION EXITS

GENERAL NOTES:

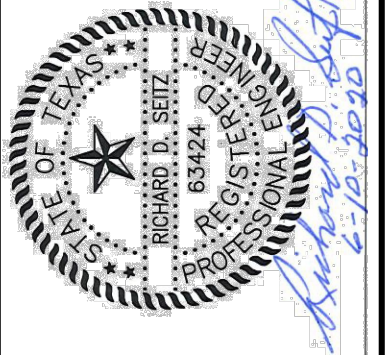
1. THESE ABBREVIATIONS APPLY TO THE ENTIRE SET OF CONTRACT DRAWINGS.
2. LISTING OF ABBREVIATIONS DOES NOT IMPLY THAT ALL ABBREVIATIONS ARE USED IN THE CONTRACT DRAWINGS.
3. ABBREVIATIONS SHOWN ON THIS SHEET INCLUDE VARIATIONS OF A WORD. FOR EXAMPLE, "MOD" MAY MEAN MODIFY OR MODIFICATION; "INC" MAY MEAN INCLUDED OR INCLUDING AND "REINF" MAY MEAN EITHER REINFORCE OR REINFORCING.

ABBREVIATIONS

ALUM	ALUMINUM
BC	BASE CABINET, BOTTOM CHORD, BOLT CENTER, BOLT CIRCLE
BLK	BLOCK
CLR	CLEAR
CONC	CONCRETE
CONST	CONSTRUCTION
DEG	DEGREE
DIA	DIAMETER
DP	DEPTH
E	EAST
EL	ELEVATION, ELBOW
EXST/EXIST	EXISTING
FL	FLOW LINE, FLOW
HWM	HIGH WATER MARK
IRR	IRRIGATION
LF	LINEAR FOOT
LG	LONG
MACH	MACHINED
MAX	MAXIMUM
MIN	MINIMUM
RCP/RCPS	REINFORCED CONCRETE PIPE/S
REF	REFERENCE
S	SOUTH
SCH	SCHEDULE
SHT	SHEET
SL	SLOPE, STEEL LINLET
SPEC	SPECIFICATION
SS	SERVICE SINK, STAINLESS STEEL
THK	THICK
TYP	TYPICAL
W	WEST, WIDE
WSE	WATER SURFACE ELEVATION
E.S.C.	EROSION/SEDIMENT CONTROL
HDWL	HEAD WALL

DESIGNED BY: CAP
DRAWN BY: MR/III
CHECKED BY: JV
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DATE: SEPTEMBER 2019

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TXE REGISTRATION No. 14939



CITY OF EDINBURG
WEST WATER TREATMENT PLANT
RESERVOIR IMPROVEMENTS

SHEET INDEX

0

1"

SCALE BAR IS ONE INCH ON ORIGINAL DRAWINGS

PROJECT NO:
4658-02

DRAWING NO:
0000G-003

SHEET NO:
3

GENERAL NOTES

GENERAL

1. THESE NOTES ARE INTENDED TO SUPPLEMENT THE TECHNICAL SPECIFICATIONS AND SHOULD NOT BE CONSIDERED A SUBSTITUTE FOR THE DETAILED REQUIREMENTS SET FORTH IN THE SPECIFICATIONS. WHERE THERE IS A CONFLICT BETWEEN THE DRAWINGS AND THE SPECIFICATIONS, THE DRAWINGS SHALL GOVERN.
2. REMAINS OF ANY PREVIOUS CONSTRUCTION DETERMINED TO BE IN CONFLICT WITH NEW CONSTRUCTION SHALL BE REMOVED FROM THE SITE DURING SITE PREPARATION. VOIDS LEFT ON THE SITE FROM THE REMOVAL OF PREVIOUS CONSTRUCTION SHALL BE FILLED WITH A MATERIAL APPROVED BY THE ENGINEER.
3. THE OWNER WILL PAY FOR WATER AND ELECTRICAL PERMITS AND PROVIDE WATER.
4. THIS PROJECT IS SUBJECT TO THE AMERICAN IRON AND STEEL (AIS) REQUIREMENTS OF FEDERAL LAW, INCLUDING FEDERAL APPROPRIATION ACTS AND SECTION 1452(o)(4) OF THE SAFE DRINKING WATER ACT (42 §300j-12(A)(4), AS APPLICABLE. ALL IRON AND STEEL PRODUCTS FOR CONSTRUCTION, ALTERATIONS, MAINTENANCE, OR REPAIRS INCORPORATED IN THESE PLANS MUST BE PRODUCED IN THE UNITED STATES.
5. CONTRACTOR SHALL CONTACT DANNENBAUM ENGINEERING COMPANY 48 HOURS PRIOR TO START OF ANY CONSTRUCTION WITHIN PROJECT SITE.
6. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE PROJECT ENGINEER OF ANY UNREPORTED OBSTACLES THAT MAY IMPEDE OR PREVENT THE PROPER CONSTRUCTION OF THIS PROJECT.
7. ALL CONSTRUCTION OPERATIONS SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THE APPLICABLE WITH LOCAL REQUIREMENTS, STATE STATUES AND THE U.S. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION REGULATIONS (OSHA). COPIES OF THE O.S.H.A. STANDARDS MAY BE PURCHASED FROM THE U.S. GOVERNMENT PRINTING OFFICE. INFORMATION AND RELATED REFERENCE MATERIALS MAY BE OBTAINED FROM O.S.H.A. AT 611 EAST 6TH STREET, ROOM 303, AUSTIN, TEXAS.
8. WORK PERFORMED UNDER THIS CONTRACT IS GOVERNED BY REQUIREMENTS OF SEVERAL PUBLIC, GOVERNMENTAL, AND PRIVATE ENTITIES. CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF SAID ENTITIES.
9. THE CONTRACTOR SHALL MAINTAIN THE JOB SITE IN A SAFE, NEAT AND WORKMAN LIKE MANNER AT ALL TIMES. JOB SAFETY SHALL NOT BE COMPROMISED. ANY UNSAFE OR UNATTRACTIVE NUISANCE SHALL BE REMOVED OR OTHERWISE TAKEN CARE OF BY THE CONTRACTOR WHEN DIRECTED BY THE OWNER OR PROJECT ENGINEER.
10. CONTRACTOR IS RESPONSIBLE FOR CLEANING MUD AND/OR DIRT TRACKED ONTO EXISTING STREETS BY HIS WORKMEN'S, SUPPLIER'S, OR SUBCONTRACTOR'S VEHICLES. STREETS MUST BE CLEANED WITHIN 2 HOURS OF WHEN THE TRACKING OCCURS. NO SEPARATE PAY.
11. PAVED SURFACES SHALL BE PROTECTED FROM DAMAGE BY TRACKED EQUIPMENT.
12. CONSTRUCTION OF THIS PROJECT WILL BE SUBJECT TO INSPECTIONS AND TESTING AS DEEMED NECESSARY OR APPROPRIATE BY THE OWNER. THE CONTRACTOR SHALL FURNISH INCIDENTAL LABOR AND EQUIPMENT TO ALLOW THE TESTING PERSONNEL ACCESS TO THE WORK AND WILL COOPERATE FULLY WITH THE PERSONS CONDUCTING THE TESTING AND INSPECTION PROGRAM
13. COORDINATION WITH SUPPLIERS OF ATTENDANT COMPONENTS OF A TOTAL SYSTEM WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.
14. A PART OF THE WORK THAT IS NECESSARY OR REQUIRED TO MAKE EACH SYSTEM OR INSTALLATION SATISFACTORY AND OPERABLE FOR ITS INTENDED PURPOSE, EVEN THOUGH IT IS NOT SPECIFICALLY INCLUDED IN THE SPECIFICATIONS OR DRAWINGS, SHALL BE PERFORMED AS INCIDENTAL WORK AS IF IT WERE DESCRIBED IN THE SPECIFICATIONS AND SHOWN ON THE DRAWINGS.
15. THERE WILL BE NO BLASTING ALLOWED ON THIS PROJECT.
16. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE DETAILED SHOP DRAWINGS OF ALL MATERIALS AND EQUIPMENT TO BE FURNISHED UNDER THIS CONTRACT. APPROVAL OF SUBMITTALS DOES NOT RELIEVE THE CONTRACTOR FROM COMPLYING WITH THE PLANS AND SPECIFICATIONS.
17. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ADEQUATE DRAINAGE AT ALL TIMES DURING CONSTRUCTION OF PROPOSED FACILITIES. CONTRACTOR TO USE PUMPS, TEMPORARY DITCHES, ETC. TO MAINTAIN A WELL DRAINED SITE FREE OF STANDING WATER AND WATER SOFTENED SOILS.
18. AREAS USED FOR THE CONTRACTOR'S JOB TRAILER, PERSONNEL PARKING, MATERIAL STORAGE, SPOILS STOCKPILE, MATERIAL FABRICATION AND RELATED CONSTRUCTION USES MUST BE APPROVED BY THE PROJECT ENGINEER AND WILL NOT BE A BONA FIDE EMERGENCY.
19. CONSTRUCTION OPERATIONS SHALL BE CONDUCTED IN SUCH A MANNER TO PROTECT THE EXISTING FACILITIES AT ALL TIMES.
20. THE CONTRACTOR SHALL MAINTAIN ACCESS TO THE PLANT EQUIPMENT FOR THE TREATMENT PLANT OPERATORS AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT.
21. CONTRACTOR SHALL MAINTAIN SECURITY AND OPERATION OF THE TREATMENT FACILITY AT ALL TIMES.
22. ALL EXISTING PAVEMENT, UTILITIES, FENCING, ETC. WHICH IS TO REMAIN AND WHICH IS DAMAGED OR REMOVED WILL BE REPAIRED TO THE SATISFACTION OF THE OWNER AT THE CONTRACTOR'S EXPENSE.
23. CONTRACTOR SHALL OBTAIN ALL CONSTRUCTION PERMITS NOT SUPPLIED BY OWNER AT HIS EXPENSE PRIOR TO COMMENCEMENT OF WORK. REQUIRED PERMITS THAT CAN ONLY BE ISSUED TO CONTRACTOR WILL BE OBTAINED AT HIS EXPENSE.

GENERAL NOTES (CONT.)

24. OFF-SITE DISPOSAL: THE CONTRACTOR SHALL BE RESPONSIBLE FOR DISPOSING OF ALL SPOILS MATERIAL FROM THE CONSTRUCTION SITE. ALL SPOILS MATERIAL SHALL BE DISPOSED OF BY THE CONTRACTOR AT AN APPROVED SPOIL SITE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND SECURING A PERMIT FOR THE SITE AND SHALL NOTIFY GENERAL PERMIT INSPECTOR AT LEAST FORTY-EIGHT (48) HOURS PRIOR TO DISPOSAL OF THE MATERIAL. THIS ITEM WILL NOT BE PAID FOR DIRECTLY, BUT IT WILL BE CONSIDERED SUBSIDIARY TO OTHER BID ITEMS.
25. STAGING AREA FOR CONSTRUCTION: ALL CONSTRUCTION ACTIVITIES, INCLUDING MATERIAL STORAGE AND STAGING AREA, SHALL BE WITHIN THE CONSTRUCTION LIMITS INDICATED ON THE DRAWINGS. ANY ADDITIONAL AREAS NEEDED FOR CONSTRUCTION AT THIS PROJECT SHALL BE RESPONSIBILITY OF THE CONTRACTOR AND MUST BE APPROVED BY THE OWNER'S REPRESENTATIVE. PERMITS AND ASSOCIATED COSTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

UTILITIES

1. THE INFORMATION SHOWN ON THESE DRAWINGS INDICATING TYPE AND LOCATION AND ELEVATION OF UNDERGROUND UTILITIES AND SERVICE LINES (WATER, WASTEWATER, GAS, TELEPHONE, ELECTRICAL ETC.) ARE NOT GUARANTEED TO BE EXACT OR COMPLETE. THE LOCATIONS AND SIZES HAVE BEEN TAKEN FROM EXISTING RECORDS AND THE BEST AS-BUILT INFORMATION AVAILABLE; HOWEVER, IT IS EXPECTED THAT THERE MAY BE SOME DISCREPANCIES AND OMISSIONS IN THE LOCATIONS, QUALITIES AND SIZES SHOWN.
2. CONTRACTOR SHALL VERIFY LOCATION AND ELEVATION OF EXISTING FACILITIES PRIOR TO CONSTRUCTION OF PROPOSED FACILITIES (NO SEPARATE PAY). ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF DANNENBAUM ENGINEERING CORPORATION IN WRITING PRIOR TO COMMENCEMENT OF CONSTRUCTION.
3. THE CONTRACTOR SHALL ARRANGE FOR THE REPAIR AND RESTORATION OF CONTRACTOR DAMAGED UTILITIES. THE COST OF ANY REPAIR OR REPLACEMENT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
4. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE CURRENT LINE SPOTTING TOLL FREE NUMBER AND COORDINATE WITH ALL THE UTILITY COMPANIES FOR ACTUAL LOCATING AND UNCOVERING OF EXISTING LINE 48 HOURS PRIOR TO EXCAVATION OPERATIONS.
5. CONTRACTOR SHALL PROTECT EXISTING UNDERGROUND FACILITIES DURING INSTALLATION OF PROPOSED WORK.
6. OVERHEAD LINES MAY EXIST ON THE PROPERTY. LINES HAVE NOT BEEN MARKED SINCE THEY ARE CLEARLY VISIBLE, BUT CONTRACTOR SHOULD LOCATE THEM PRIOR TO CONSTRUCTION. TEXAS LAW, SECTION 752, HEALTH & SAFETY CODE, FORBIDS ALL ACTIVITIES IN WHICH PERSONS OR THINGS MAY COME WITHIN SIX (6) FEET OF LIVE OVERHEAD HIGH VOLTAGE LINES. CONTRACTORS AND OWNERS ARE LEGALLY RESPONSIBLE FOR SAFETY OF CONSTRUCTION WORKERS UNDER THIS LAW. THIS LAW CARRIES BOTH CRIMINAL AND CIVIL LIABILITY.
7. CONTRACTOR TO MAKE ARRANGEMENTS WITH THE APPROPRIATE UTILITY COMPANY FOR SECURING POLES, IF NECESSARY, WHILE CONSTRUCTION PASSES BY POLES. COSTS OF SECURING POLES WILL BE PAID FOR BY THE CONTRACTOR, NO SEPARATE PAY.
8. MAINTAIN A MINIMUM 12-INCHES VERTICAL CLEARANCE BETWEEN ALL UTILITIES, UNLESS OTHERWISE NOTED.
9. RETESTING OF ALL UTILITIES AND ACCEPTANCE BY OWNER SUBSEQUENT TO THE PAVEMENT CONSTRUCTION WILL BE THE UTILITY CONTRACTOR'S RESPONSIBILITY. NO SEPARATE PAY.
10. CONTRACTOR SHALL GIVE NOTICE TO ALL AUTHORIZED INSPECTORS, SUPERINTENDENTS, OR PERSONS IN CHARGE OF PRIVATE AND PUBLIC UTILITIES AFFECTED BY HIS OPERATIONS PRIOR TO COMMENCEMENT OF WORK.

ARCHEOLOGY

1. IF ARCHEOLOGICAL SITES OR HISTORIC STRUCTURES WHICH MAY QUALIFY FOR DESIGNATION AS A STATE ARCHEOLOGICAL LANDMARK ACCORDING TO THE CRITERIA IN 13 TAC 41.6--41.10, OR THAT MAY BE ELIGIBLE FOR LISTING ON THE NATIONAL REGISTER OF HISTORIC PLACES IN ACCORDANCE WITH 36 CFR, PART 800, ARE DISCOVERED AFTER CONSTRUCTION OPERATIONS ARE BEGUN, THE CONTRACTOR SHALL IMMEDIATELY CEASE OPERATIONS IN THE PARTICULAR AREA AND NOTIFY THE OWNER, THE TWDB, AND THE TEXAS HISTORICAL COMMISSION, 1511 N COLORADO ST, PO BOX 12276, CAPITOL STATION, AUSTIN, TEXAS 78711-2276. THE CONTRACTOR SHALL TAKE REASONABLE STEPS TO PROTECT AND PRESERVE THE DISCOVERIES UNTIL THEY HAVE BEEN INSPECTED BY THE OWNER'S REPRESENTATIVE AND THE TWDB. THE OWNER WILL PROMPTLY COORDINATE WITH THE STATE HISTORICAL PRESERVATION OFFICER AND ANY OTHER APPROPRIATE AGENCIES TO OBTAIN ANY NECESSARY APPROVALS OR PERMITS TO ENABLE THE WORK TO CONTINUE. THE CONTRACTOR SHALL NOT RESUME WORK IN THE AREA OF DISCOVERY UNTIL AUTHORIZED TO DO SO BY THE OWNER.
2. STANDARD EMERGENCY CONDITIONS FOR ENDANGERED SPECIES IF A THREATENED OR ENDANGERED SPECIES IS ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR SHALL IMMEDIATELY CEASE WORK IN THE ARE OF THE ENCOUNTER AND NOTIFY THE OWNER, WHO WILL IMMEDIATELY IMPLEMENT ACTIONS IN ACCORDANCE WITH ESA AND APPLICABLE STATE STATUES . THESE ACTIONS SHALL INCLUDE REPORTING THE ENCOUNTER TO THE TWDB, THE US FISH AND WILDLIFE SERVICE AND THE TEXAS PARKS AND WILDLIFE DEPARTMENT, OBTAINING ANY NECESSARY APPROVALS OR PERMITS TO ENABLE THE WORK TO CONTINUE, OR IMPLEMENT OTHER MITIGATION ACTIONS. THE CONTRACTOR SHALL NOT RESUME CONSTRUCTION IN THE AREA OF THE ENCOUNTER UNTIL AUTHORIZED TO DO SO BY OWNER.

GENERAL NOTES (CONT.)

REINFORCING STEEL

1. ALL REINFORCING STEEL SHALL CONFORM TO ASTM SPECIFICATION A-165, GRADE 60. ALL BARS SHALL CONFORM TO ASTM SPECIFICATION A-305.
2. ALL STEEL REINFORCEMENT CLEARANCES ABOVE GROUND TO BE 2" AND BELOW GROUND TO BE 3" UNLESS SHOWN OTHERWISE.
3. ALL BAR LAPS SHALL HAVE A MINIMUM LENGTH OF 40 BAR DIAMETER (12" MINIMUM) AT SPLICES, UNLESS OTHERWISE NOTED.

CONCRETE

1. ALL CONCRETE AND FORM WORK SHALL CONFORM TO CURRENT ACI CODE REQUIREMENTS.
2. CONCRETE SHALL DEVELOP 4,000 PSI COMPRESSIVE STRENGTH AT 28 DAYS MIN.
3. ALL GROUT AROUND PIPES EXPOSED TO SEWAGE OR GROUND WATER BE NON-SHRINKING TYPE.
4. CHAMFER ALL EXPOSED CONCRETE EDGES 1".

GATEWELLS/STAND PIPES

1. ALL OUTSIDE ANCHOR BOLTS, WALL INSERTS, ETC. TO BE STAINLESS STEEL OR AS SPECIFIED BY ENGINEER, SHALL BE CAST INTO CONCRETE AT TIME OF POUR. ANCHOR BOLTS, PIPE BRACKETS, ETC. INSIDE OF WETWELL SHALL BE STAINLESS STEEL.
2. HATCH COVERING WETWELL MUST BE SIZED FOR GATES OR PUMPS SUPPLIED. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO INSURE THAT THE HATCH OPENINGS ARE SIZED CORRECTLY FOR THE EASY REMOVAL OF ALL EQUIPMENT SUPPLIED.
3. DIVERS, IF REQUIRED, FOR PLUGGING OF PIPES TO GATEWELLS/STAND PIPES ARE THE RESPONSIBILITY OF THE CONTRACTOR.

BYPASS PUMPING

1. BYPASS PUMPING MAY BE REQUIRED, SUBJECT TO CONTRACTOR'S CONSTRUCTION "MEANS AND METHODS".
2. THE CONTRACTOR SHALL MAINTAIN A MINIMUM FLOW OF 12 MGD TO THE WEST WTP AND 8 MGD TO THE NORTH WTP. FOR A COMBINING RATE OF 20 MGD. BOTH PLANTS ARE FED OUT OF THE WEST WTP RESERVOIR.
3. THE CONTRACTOR IS TO SUBMIT PUMPING PLAN TO THE ENGINEER FOR APPROVAL PRIOR TO COMMENCING WORK.

GRADING

1. FINISHED GRADE ELEVATIONS SHOWN ARE INTENDED TO PROVIDE DRAINAGE AWAY FROM THE TREATMENT PLANT FACILITIES, MINOR FIELD CHANGES MAY BE NECESSARY TO PROVIDE ADEQUATE DRAINAGE. GRADE UNIFORMLY BETWEEN ELEVATIONS SHOWN ON THE PLANS.

SURVEY

1. IRON RODS DISTURBED DURING CONSTRUCTION TO BE REPLACED BY REGISTERED PUBLIC LAND SURVEYOR TO ORIGINAL PROPERTY CORNER AT NO SEPARATE PAY.
2. CONSTRUCTION STAKING (ALIGNMENT AND GRADE) TO BE PROVIDED BY THE CONTRACTOR AT NO SEPARATE PAY.

GEOTECHNICAL

1. GEOTECHNICAL INFORMATION WAS PREPARED FOR USE IN ESTABLISHING THE DESIGN CONTROLS FOR THIS PROJECT. GEOTECHNICAL INFORMATION INCLUDED IN THESE DOCUMENTS IS PROVIDED FOR INFORMATIONAL PURPOSES ONLY , AND IS NOT TO BE CONSTRUCTED AS BEING ACCURATE REPRESENTATION OF SUB SOIL CONDITIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE WHAT THE ACTUAL SUBSURFACE CONDITIONS ARE.
2. ANY ADDITIONAL SOIL BORINGS THE CONTRACTOR REQUIRES ARE TO BE DONE BY THE CONTRACTOR AT HIS EXPENSE.

EXCAVATION & BACKFILL

1. ALL EXCAVATION FOR THIS PROJECT SHALL BE UNCLASSIFIED.
2. SURPLUS EXCAVATED MATERIAL. IF THE ENGINEER NOTIFIES THE CONTRACTOR THAT THE OWNER DOES NOT HAVE USE FOR THIS MATERIAL, THE SURPLUS MATERIAL BECOMES THE PROPERTY OF THE CONTRACTOR AND IT IS HIS RESPONSIBILITY TO DISPOSE OF THE MATERIAL OFF-SITE.
3. AS SOON AS PRACTICAL, ALL PORTIONS OF EXCAVATIONS NOT OCCUPIED BY THE PERMANENT STRUCTURE SHALL BE BACKFILLED. BACKFILL MATERIAL SHALL BE FREE FROM LUMPS, WOOD OR OTHER EXTRANEQUS MATERIAL LARGER THAN 2-INCHES IN DIAMETER. BACKFILL SHALL BE PLACED IN 12-INCH MAXIMUM LOOSE LIFTS AND SHALL BE COMPACTED TO A DENSITY OF 95% OF STANDARD PROCTOR.
4. AT THE END OF THE PROJECT, ANY EXCESS GRIT NOT DESIGNATED AS SURPLUS MATERIAL SHALL BE SMOOTHLY DRAED TO MERGE CONTOURS WITH THE BERM, AND SHALL BE SEEDED IN ACCORDANCE WITH SECTION 02921 HYDROMULCH SEEDING.

GENERAL NOTES (CONT.)

TRAFFIC CONTROL PLAN

1. WHERE CONTRACTOR'S WORK AND/ OR EQUIPMENT CAUSES AN OBSTRUCTION TO TRAFFIC, CONTRACTOR SHALL PROVIDE AND INSTALL TRAFFIC CONTROL DEVICES IN ACCORDANCE WITH PART VI OF THE "TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (TEXAS M.U.T.C.D., MOST RECENT EDITION AS REVISED) DURING CONSTRUCTION. A WRITTEN TRAFFIC CONTROL PLAN SHALL BE SUBMITTED PRIOR TO CONSTRUCTION FOR REVIEW BY THE ENGINEER & OTHER APPROPRIATE PERSONS.

SEQUENCE OF CONSTRUCTION

1. INSTALL TEMPORARY EROSION CONTROLS PER APPROVED SWPPP PLANS PRIOR TO BEGINNING CONSTRUCTION. INSTALL CONSTRUCTION ACCESS AND BEGIN SETUP TRUCK WASHDOWN AREAS AND STAGING AREAS. (NO ADDITIONAL PAY FOR SETTING UP WASHDOWN AND STAGING AREAS)
2. THE CONTRACTOR SHALL SUBMIT A DETAILED SCHEDULE OF CONSTRUCTION THAT REFLECTS THE CONSTRUCTION PHASES AND UNDERLINES CRITICAL PATHS.
3. CONTACT CITY'S REPRESENTATIVE TO SCHEDULE ON-SITE PRE-CONSTRUCTION COORDINATION MEETING.
4. SITE CLEARING AND PREPARATION.
5. CONDUCT CONSTRUCTION SURVEY AND SET TWO PERMANENT BENCHMARKS. (NO ADDITIONAL PAY FOR PERMANENT BENCHMARKS)
6. BEGIN EXCAVATION FOR UNDERGROUND STRUCTURES, CONSTRUCT PIPE LINES, WET WELL(S) WITH ALL THE APPURTENANCES, AND ALL OTHER STRUCTURES PER CONSTRUCTION DRAWINGS.
7. ESTABLISH PERMANENT VEGETATION.
8. SCHEDULE SUBSTANTIAL COMPLETION WALK-THROUGH
9. SCHEDULE FINAL WALK-THROUGH
10. CLEAN, REMOVE ALL EROSION CONTROLS.

STRUCTURAL

1. ANY REQUIRED CHANGES TO THE STRUCTURAL DRAWINGS RESULTING FROM THE ACCEPTANCE OF ALTERNATES AND/OR SUBSTITUTIONS ARE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

CLEARING AND GRUBBING

1. CONTRACTOR SHALL LIMIT CLEARING OF VEGETATION ON RESERVOIR DIKES TO THAT REQUIRED FOR ACCESS TO THE CONSTRUCTION AREAS.
2. CLEARING SHALL BE PERFORMED BY HAND CUTTING ONLY WITHOUT DISTURBING THE DIKES.
3. ANY DAMAGE TO THE DIKES SHALL BE REPAIRED BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER
4. DISPOSAL OF REMOVED VEGETATION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. (NO SEPARATE PAY)

EROSION/SEDIMENT CONTROL

1. TEMPORARY EROSION/SEDIMENTATION CONTROL AND TREE/NATURAL AREA PROTECTION MEASURES:
 - a. THE CONTRACTOR SHALL INSTALL EROSION/SEDIMENTATION CONTROLS (E.S.C.) PRIOR TO ANY SITE PREPARATION WORK (CLEARING, GRUBBING, GRADING, OR EXCAVATION).
 - b. THE PLACEMENT OF EROSION/SEDIMENTATION CONTROLS(E.S.C) SHALL BE IN ACCORDANCE WITH TCEQ STANDARDS.
 - c. PRE-CONSTRUCTION CONFERENCE SHALL BE HELD PRIOR TO BEGINNING CONSTRUCTION. THIS CONFERENCE IS TO TAKE PLACE ON THE SITE AT WHICH TIME THE PLAN FOR EROSION AND SEDIMENT CONTROL SHALL BE DEVELOPED IF NEEDED. PRESENTLY IT IS ANTICIPATED THAT APPROXIMATELY 100 LINEAR FEET OF SEDIMENT CONTROL FENCING MAY BE REQUIRED AT CELL #5, CELL #1 AND CELL #2.
 - d. ANY SEDIMENT BUILD-UP OCCURRING AFTER A SIGNIFICANT RAIN SHALL BE REMOVED AND PLACED IN THE AGREED UPON DESIGNATED SPOIL DISPOSAL SITE.

CHAINLINK FENCE

1. REMOVE AND REPLACE EXISTING CHAINLINK AND APPURTENANCES AS NECESSARY TO PERFORM CONSTRUCTION.
2. DAMAGED FENCING AND APPURTENANCES SHALL BE REPLACED AT CONTRACTOR'S EXPENSE.

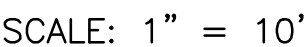
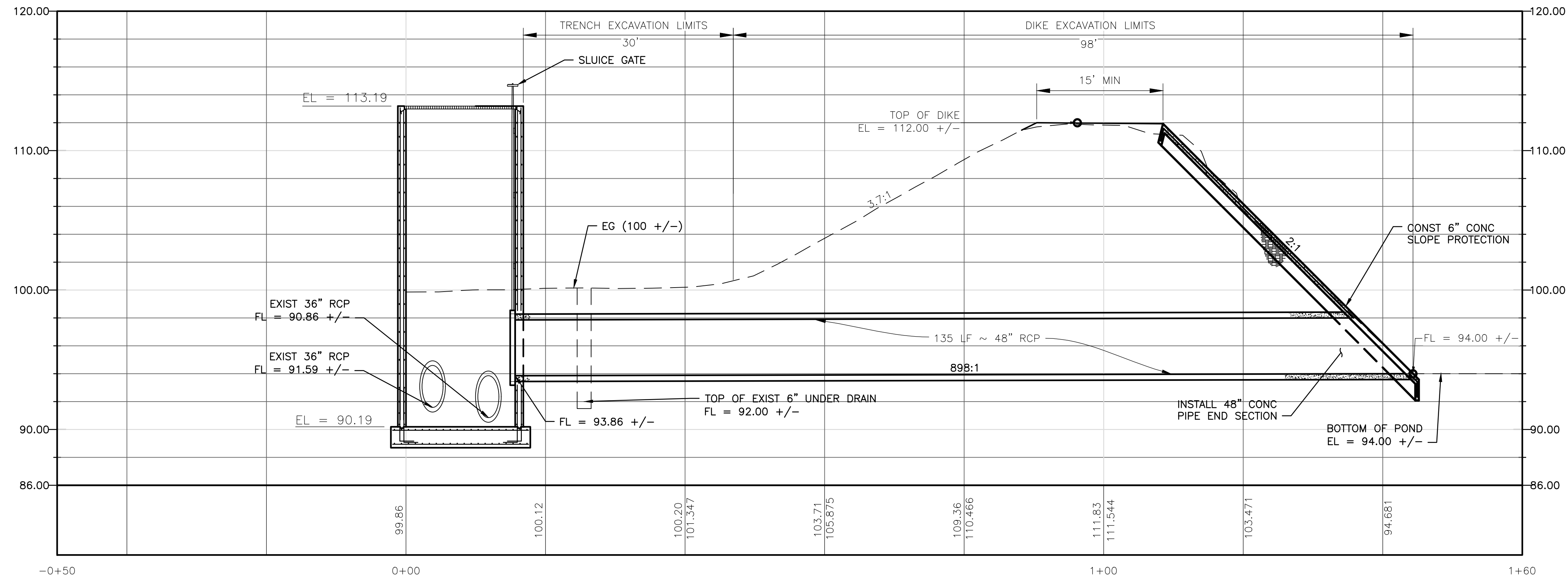
SAFETY

1. EXCAVATIONS, TRENCHES AND OTHER HAZARDOUS AREAS SHALL BE ADEQUATELY PROTECTED BY BARRICADES, FENCING, LIGHTS AND/OR OTHER PROTECTIVE DEVICES AT ALL TIMES.

SEEDING AND SODDING

1. ALL DISTURBED AREAS SHALL BE HYDROMULCHED ONCE NO FURTHER WORK IS TO BE PERFORMED IN THE AREA.

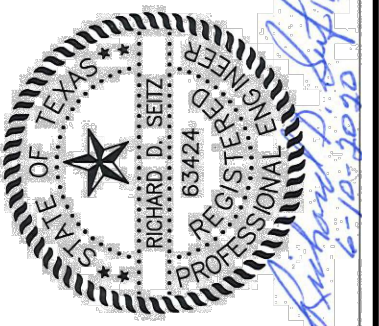
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	ISSUED FOR REVIEW								
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	ISSUE FOR BID ADDENDUM #2								
DESIGNED BY:	CAP	DRAWN BY:	MR/III	CHECKED BY:	JV	APPROVED BY:	RS	DATE:	SEPTEMBER 2019
<div><div><div><div>DANNENBAUM</div><div>ENGINEERING COMPANY-MCALLEN, LLC</div><div>1109 Nolana Loop, Suite 200 McAllen, TX 78504 (956) 682-3877</div><div>TDP REGISTRATION No. F4939</div></div></div></div>									
<div><div><div><div>STATE OF TEXAS</div><div>REGISTERED PROFESSIONAL ENGINEER</div><div>83424</div><div>RICHARD E. SUTT</div><div>6-12-2020</div></div></div><div><div>CITY OF EDINBURG</div><div>WEST WATER TREATMENT PLANT</div><div>RESERVOIR IMPROVEMENTS</div><div>GENERAL NOTES</div><div>1 OF 1</div></div></div>									
<div><div><div><div>0</div><div>1"</div></div><div>SCALE BAR IS ONE INCH ON ORIGINAL DRAWINGS</div></div><div>PROJECT NO: 4658-02</div></div>									
<div>DRAWING NO: 0000G-004</div>									
<div>SHEET NO: 4</div>									



1. CENTER GATEWELL ON EXISTING 36" PIPES
2. FIELD VERIFY FLOWLINE ELEVATIONS OF TWO EXISTING 36" RCP'S
3. IF ELEVATIONS OF EXISTING 36" PIPES ARE MORE THAN THREE (3) INCHES BELOW ELEVATIONS SHOWN ON THIS SHEET, STOP WORK AND NOTIFY ENGINEER BEFORE CONTINUING WORK
4. FOR GATEWELL DETAILS, SEE SHEET ENTITLED "CELL 5 GATEWELL DETAIL"
5. FOR PIPE END SECTION AND SLOPE PROTECTION, SEE SHEET ENTITLED "CELL 5 GATEWELL PIPE END SECTION AND SLOPE PROTECTION DETAIL"

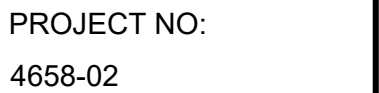
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DRAWN BY: MR III
CHECKED BY: JV
APPROVED BY: RS
DATE: SEPTEMBER 2019

DANNENBAUM
ENGINEERING COMPANY-McALLEN, LLC
11109 Nolana Loop, Suite 208 McAllen, TX 78504 (956) 682-3677



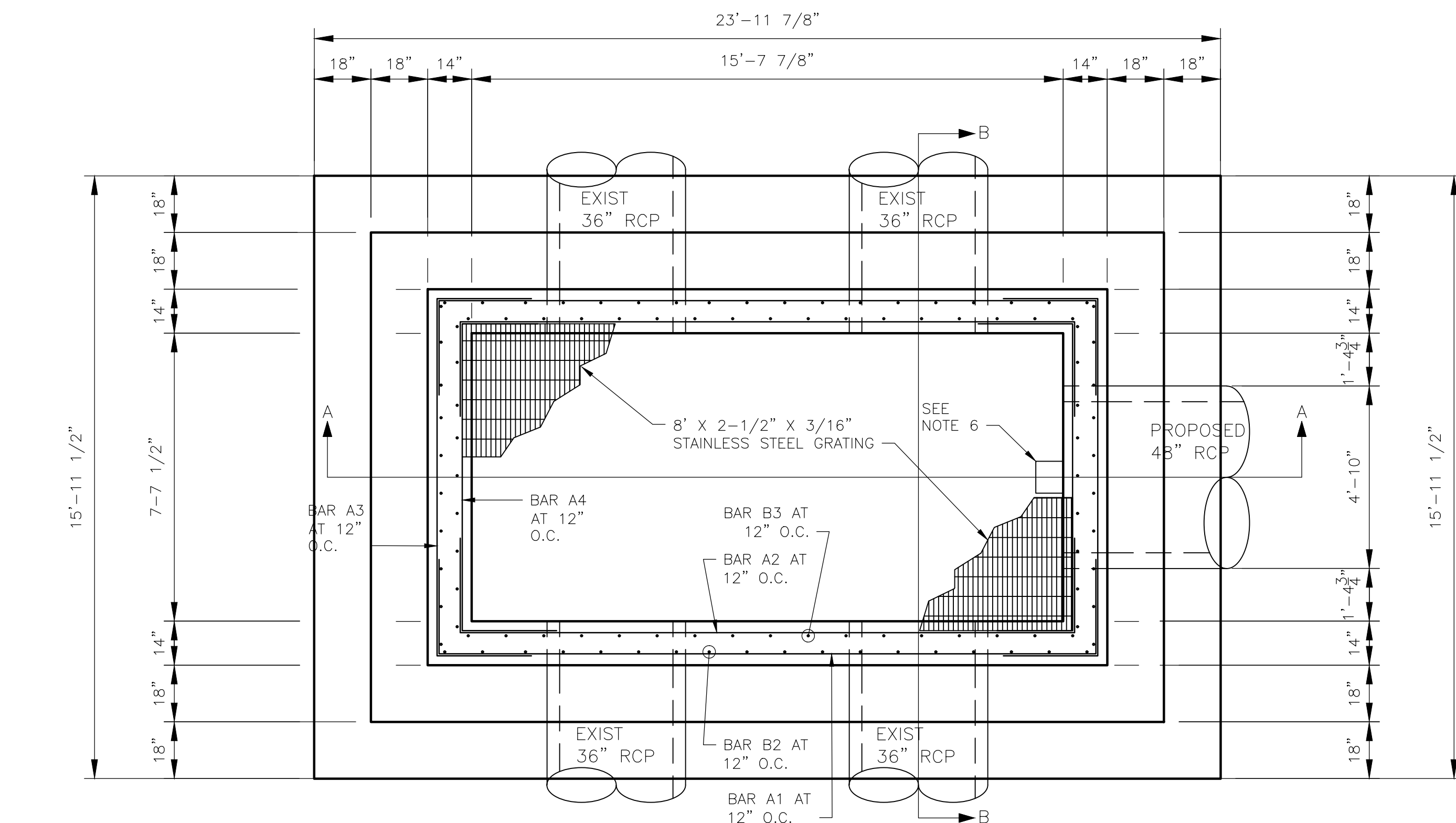
CITY OF EDINBURG

CELL 5
WELL PIPE, AND PIPE END SECTION
PLAN AND PROFILE

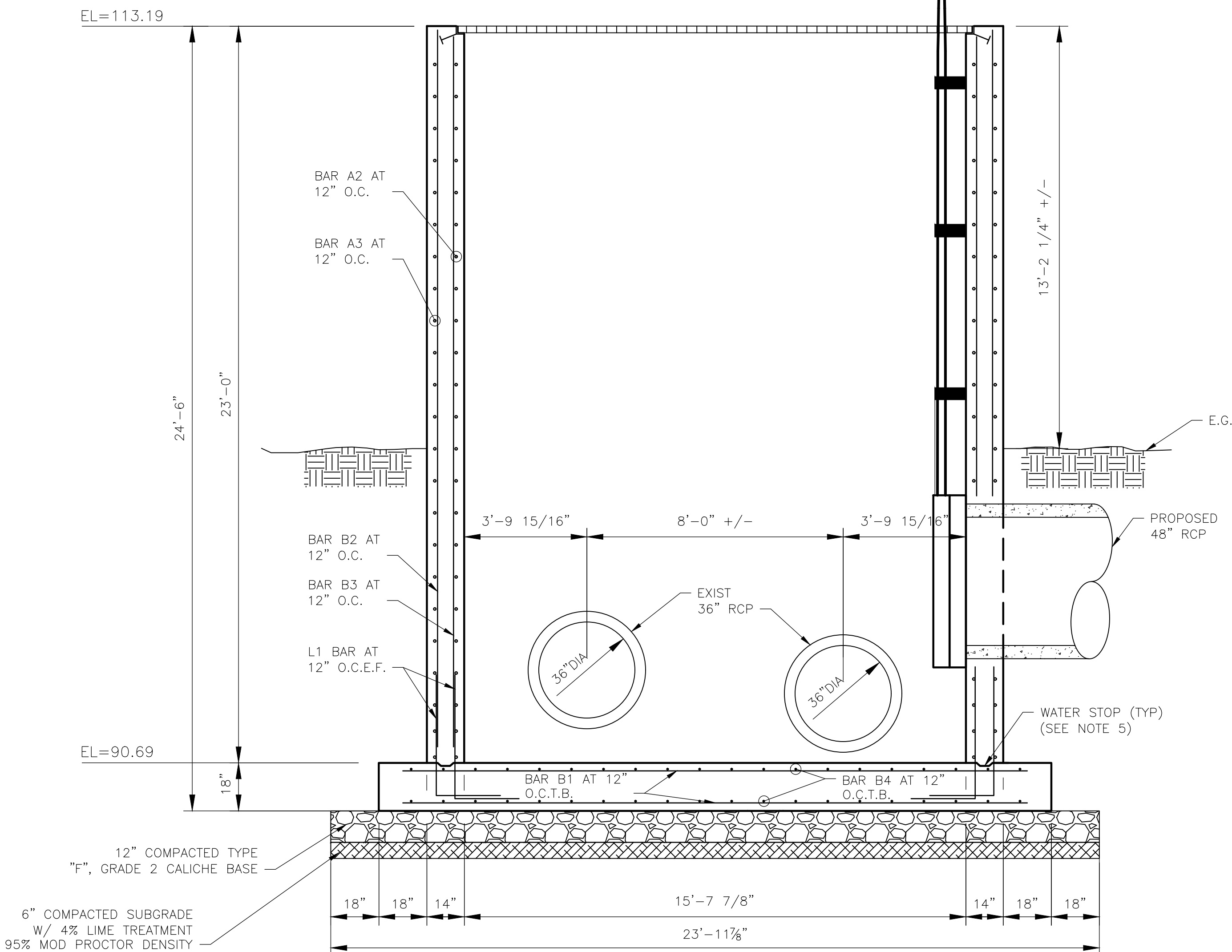


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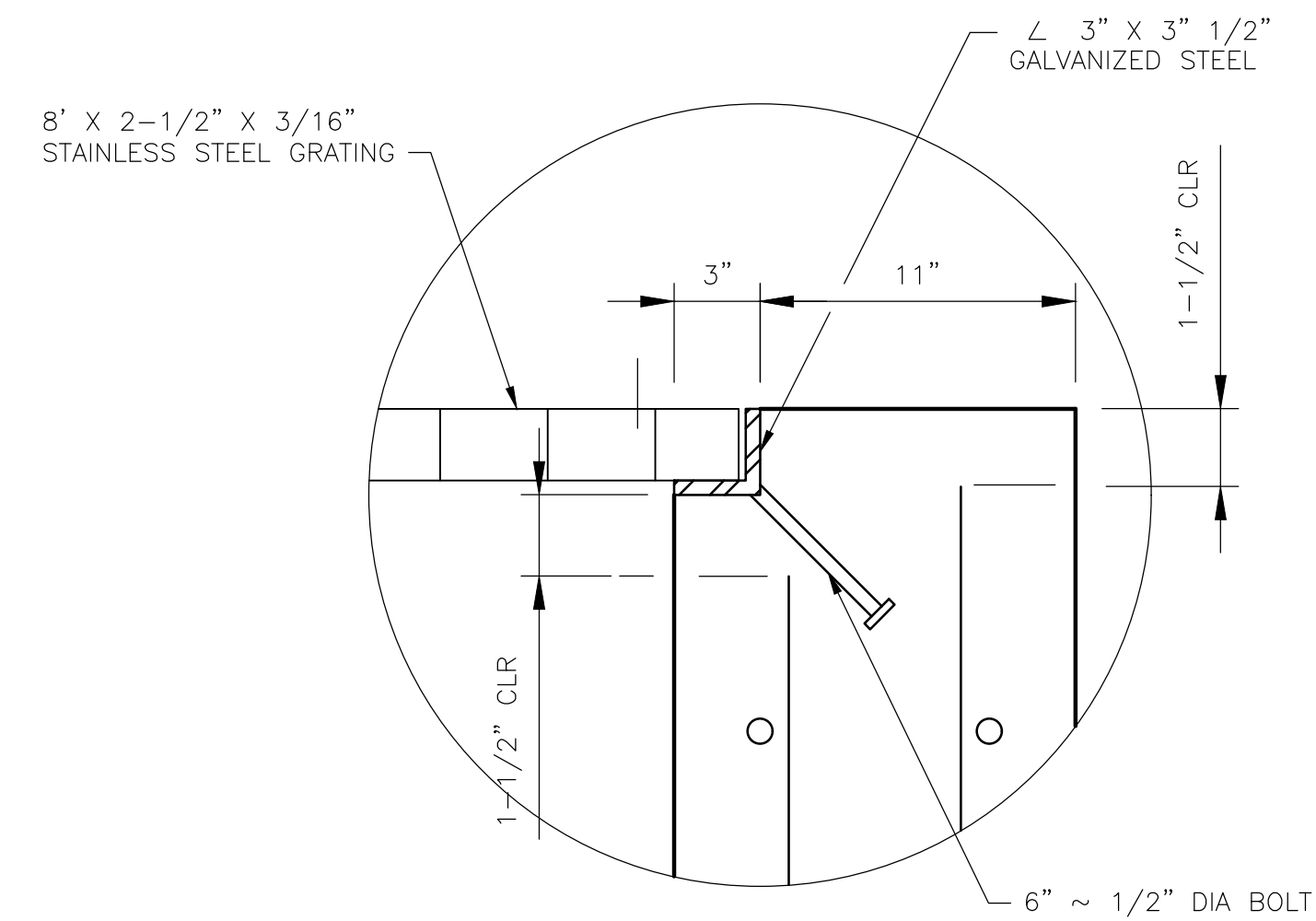
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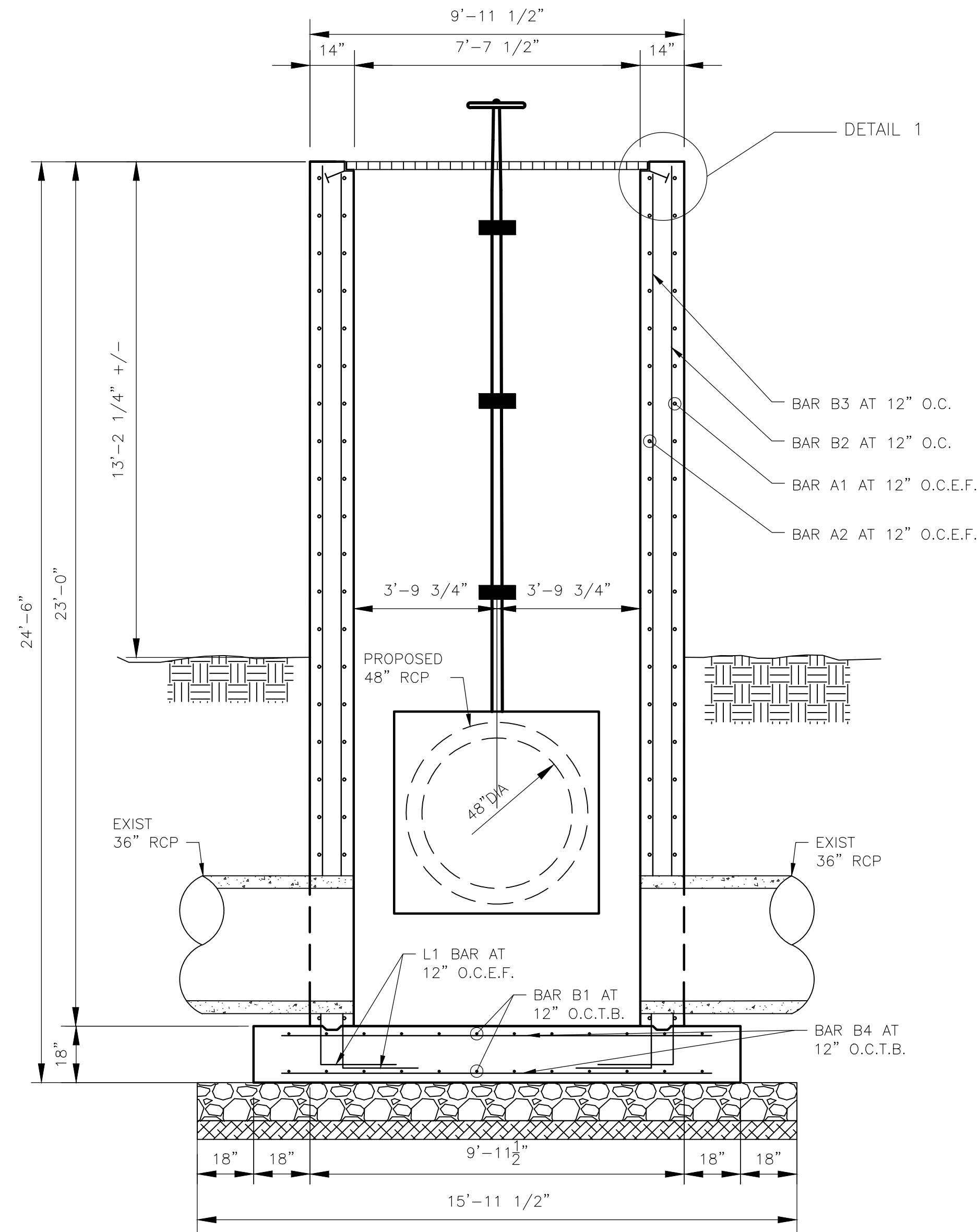
PLAN VIEW
SCALE: 3/8" = 1'-0"



SECTION A-A
SCALE: 3/8" = 1'-0"




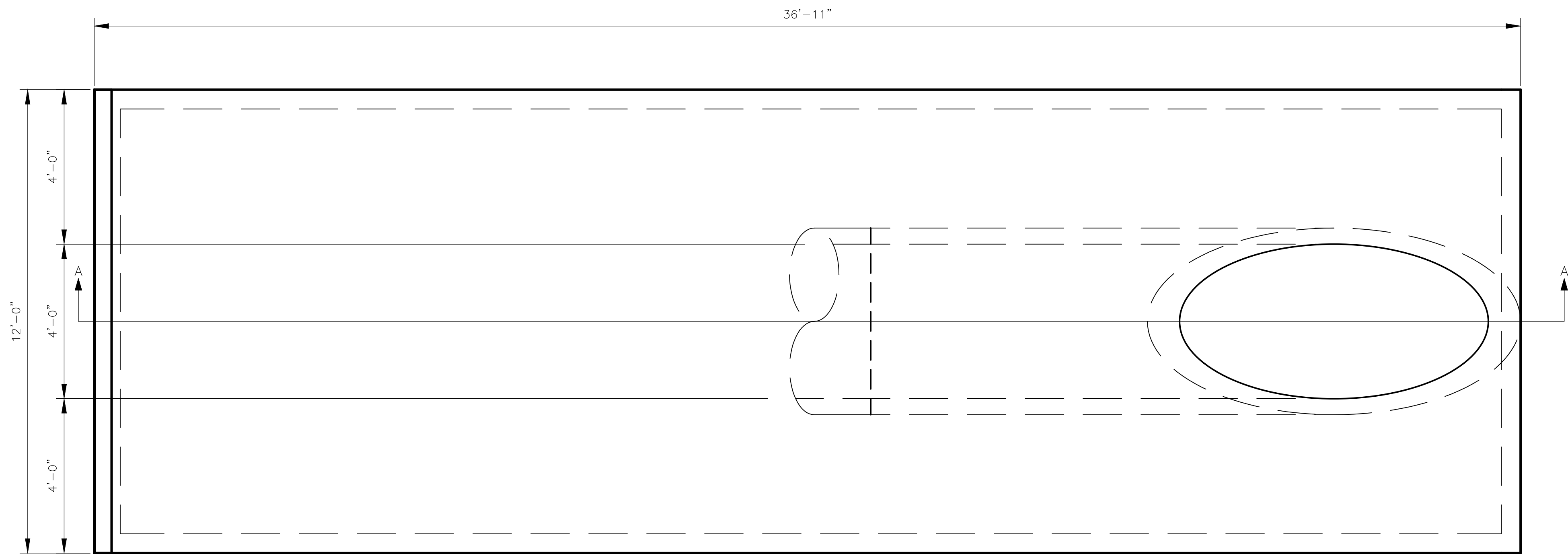
DETAIL 1
NOT TO SCALE



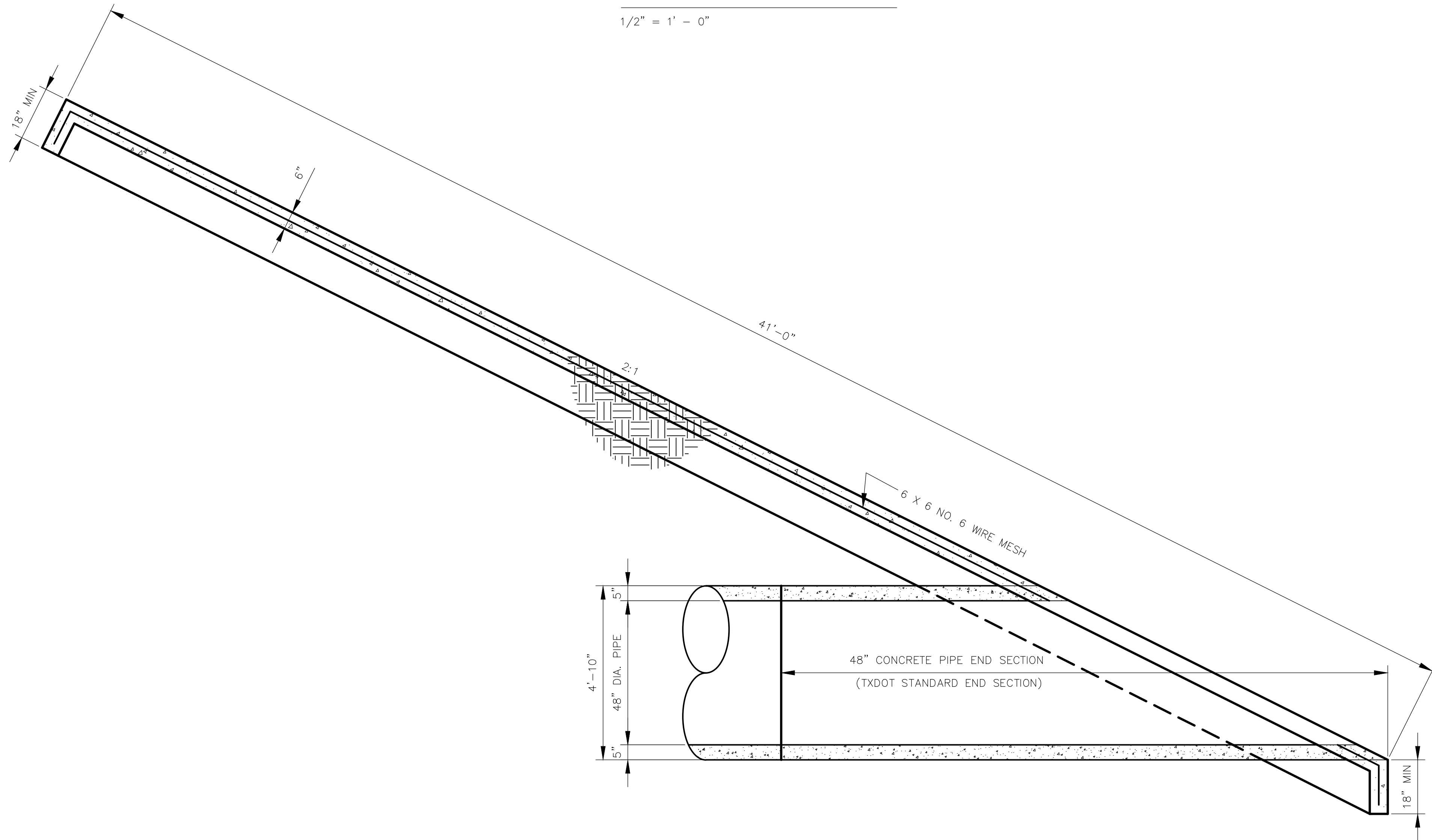
SECTION B-B
SCALE: 3/8" = 1'-0"

- NOTES:
1. MINIMUM COVER FOR REINFORCED STEEL IS THREE INCHES (3") UNLESS NOTED OTHERWISE.
 2. CONCRETE SHALL BE 4,000 PSI SEE SPECIFICATION 03300.
 3. CEMENT SHALL BE TYPE I/II.
 4. REINFORCING STEEL SHALL BE GRADE 60
 5. WATER STOP SHALL BE GREENSTREAK (SWELLSTOP) WATER STOP OR EQUIVALENT.
 6. PLEASE BLOCK OUT IN METAL GRATING
 7. FOR SLUICE GATE DETAIL SEE SHEET ENTITLED "SLUICE GATE DETAIL"

<div>CITY OF EDINBURG</div> <div>WEST WATER TREATMENT PLANT</div> <div>RESERVOIR IMPROVEMENTS</div>		<div>CELL 5</div> <div>GATE WELL DETAILS</div> <div>SHEET 1 OF 2</div>		<div><div><div>0</div><div>1"</div></div><div>SCALE BAR IS ONE INCH ON ORIGINAL DRAWINGS</div></div> <div>PROJECT NO:</div> <div>4658-02</div> <div>DRAWING NO:</div> <div>0100S-001</div> <div>SHEET NO:</div> <div>8</div>	<div><div><i>Richard D. Seitz</i> 6-10-2020</div></div>	<div>DANNENBAUM</div> <div>ENGINEERING COMPANY-McALLEN, LLC 1108 Nolana Loop, Suite 100 McAllen, TX 78501 (956) 682-3677 TPE REGISTRATION No. F-8995</div>	<div>DESIGNED BY: CAP</div> <div>DRAWN BY: MR/III</div> <div>CHECKED BY: JV</div> <div>APPROVED BY: RS</div> <div>DATE: SEPTEMBER, 2019</div>	<div>REVISIONS</div> <table><thead><tr><th>NO.</th><th>DATE</th><th></th></tr></thead><tbody><tr><td>A</td><td>09/01/19</td><td>ISSUED FOR REVIEW</td></tr><tr><td>B</td><td>06/10/20</td><td>ISSUED FOR BID</td></tr><tr><td>B</td><td>06/25/20</td><td>ISSUE FOR BID ADDENDUM #2</td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr></tbody></table>	NO.	DATE		A	09/01/19	ISSUED FOR REVIEW	B	06/10/20	ISSUED FOR BID	B	06/25/20	ISSUE FOR BID ADDENDUM #2										<div>APP.</div> <div>R.S.</div> <div>R.S.</div> <div></div> <div></div> <div></div>
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PLAN VIEW

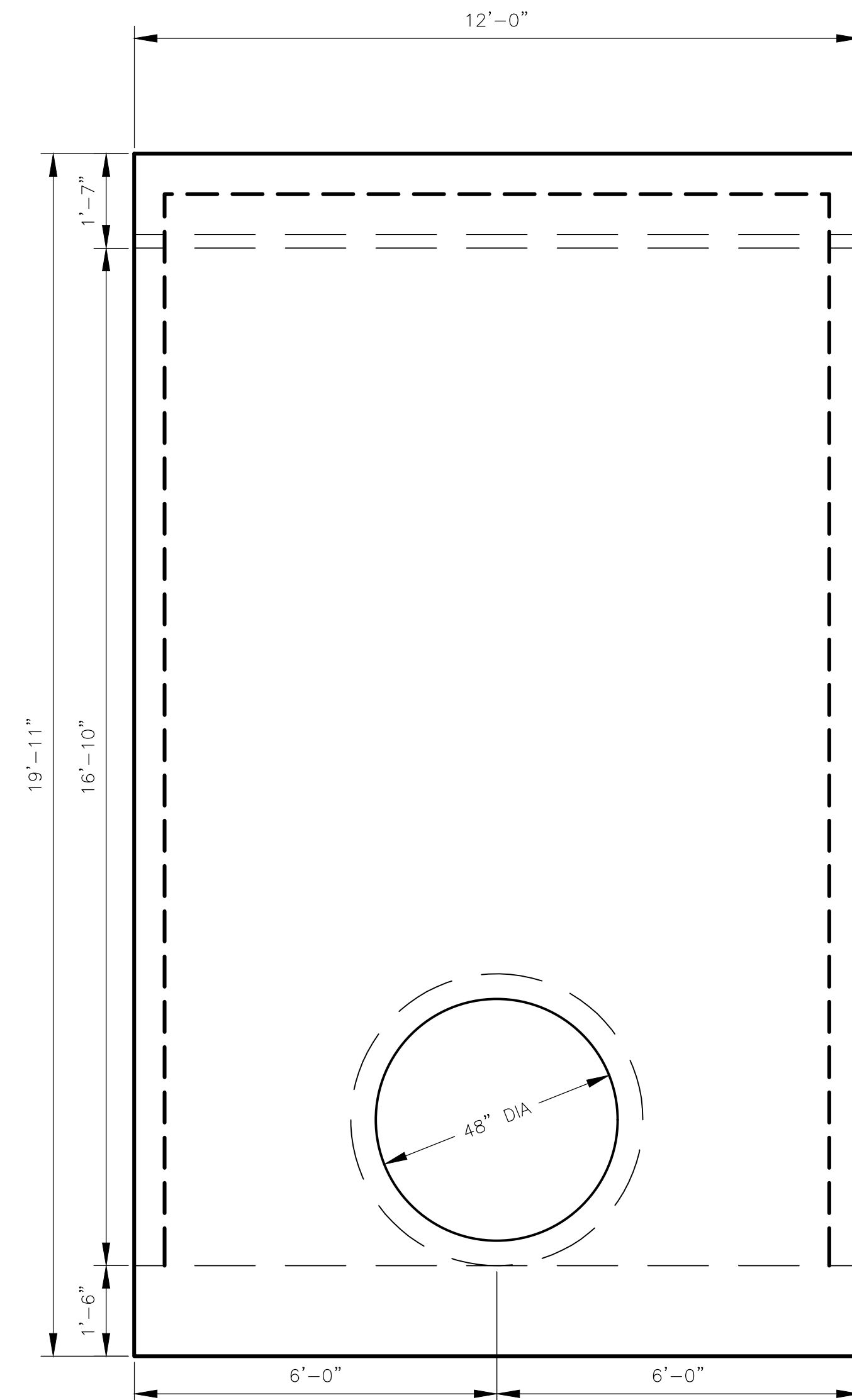
$$1/2'' = 1' - 0''$$


SECTION A-A

$$1/2'' = 1' - 0''$$

- NOTES:

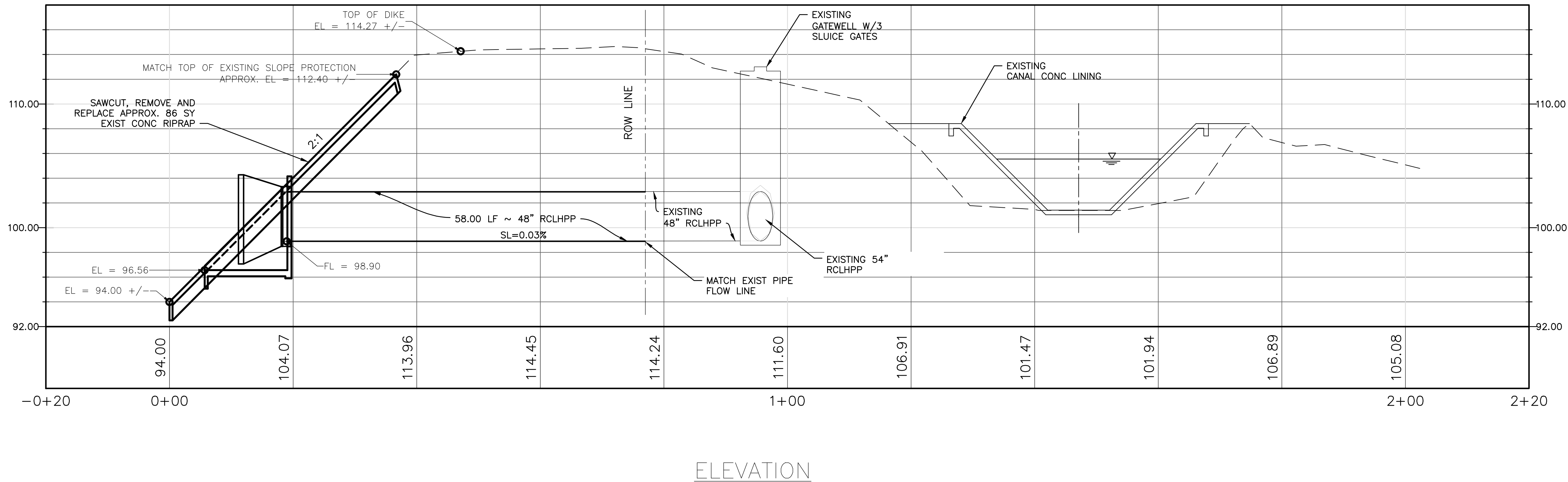
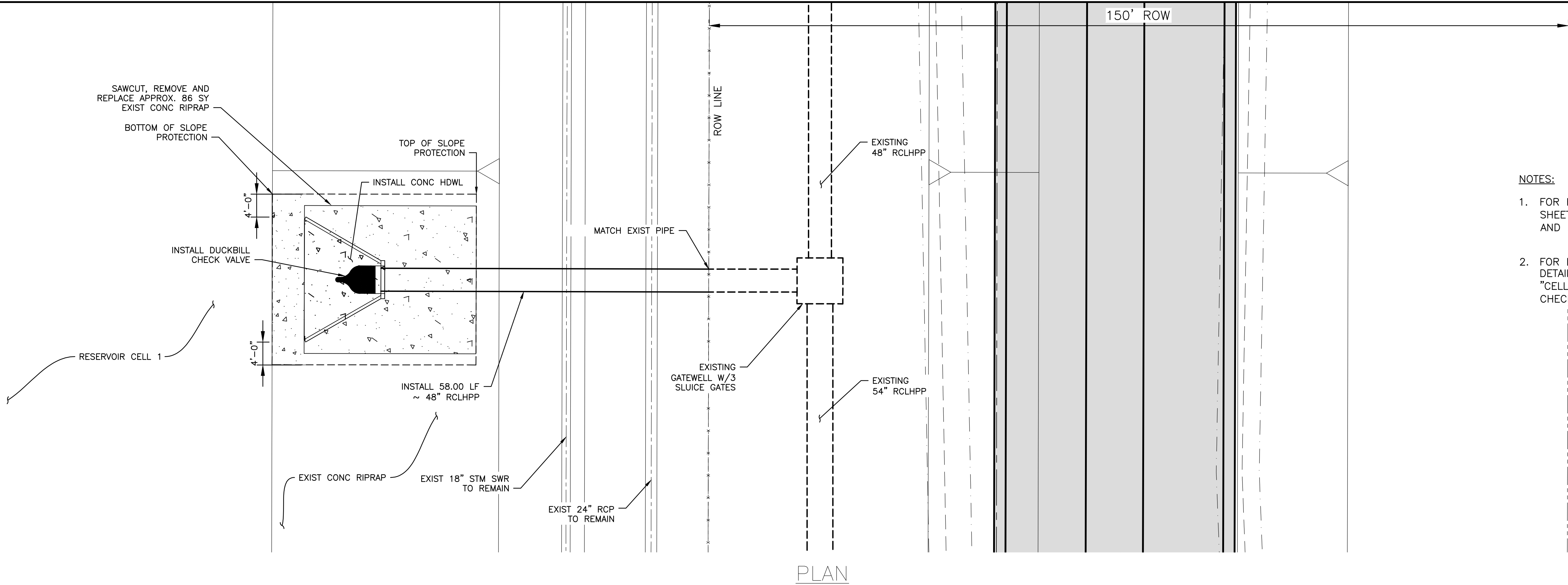
1. CONCRETE TO HAVE 3000 P.S.I. MIN. AT 28 DAY COMPRESSIVE STRENGTH.
2. ALL STEEL TO BE GRADE 60.
3. MIN. 90% COMPACTION STD. PROCTOR DENSITY
4. REINFORCING STEEL SHALL BE 6 X 6 #6 WIRE MESH



PROFILE VIEW

$$1/2'' = 1' - 0''$$

CITY OF EDINBURG				DANNENBAUM ENGINEERING COMPANY-MCALLEN, LLC 1109 Kolada Loop Houston, TX 77058 (281) 882-3877 TIF E REGISTRATION NO. F-8899		DESIGNED BY: CAP DRAWN BY: MR/II CHECKED BY: JV APPROVED BY: RS DATE: SEPTEMBER 2019		REVISIONS <table><tr><th>NO.</th><th>DATE</th><th></th></tr><tr><td>A</td><td>09/01/19</td><td>ISSUED FOR REVIEW</td></tr><tr><td>B</td><td>06/10/20</td><td>ISSUED FOR BID</td></tr><tr><td>B</td><td>06/25/20</td><td>ISSUE FOR BID ADDENDUM #2</td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr></table>		NO.	DATE		A	09/01/19	ISSUED FOR REVIEW	B	06/10/20	ISSUED FOR BID	B	06/25/20	ISSUE FOR BID ADDENDUM #2												
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WEST WATER TREATMENT PLANT RESERVOIR IMPROVEMENTS		CELL 5 PIPE END SECTION & SLOPE PROTECTION DETAIL (SHEET 1 OF 1)																															
 SCALE BAR IS ONE INCH ON ORIGINAL DRAWINGS		PROJECT NO: 4658-02																															
		DRAWING NO: 0100S-006																															
		SHEET NO: 13																															



- NOTES:
1. FOR HEADWALL DETAILS SEE SHEET ENTITLED "CELL 1 AND 2 HEADWALL DETAIL"
 2. FOR DUCKBILL CHECK VALVE DETAIL SEE SHEET ENTITLED "CELL 1 AND 2 DUCKBILL CHECK VALVE DETAIL"

REVISIONS			
NO.	DATE	ISSUED FOR REVIEW	ISSUED FOR BID
A	09/01/19	MR/III	R.S.
B	06/10/20	JV	R.S.
C	06/25/20	RS	R.S.
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DESIGNED BY:	CAP
DRAWN BY:	MR/III
CHECKED BY:	JV
APPROVED BY:	RS
DATE:	SEPTEMBER 2019

DANNENBAUM
ENGINEERING COMPANY-McALLEN, LLC
1109 Nolana Loop, Suite 200 McAllen, TX 78504 (956) 682-3877
TYPE REGISTRATION No. F49393

CITY OF EDINBURG
WEST WATER TREATMENT PLANT
RESERVOIR IMPROVEMENTS
CELL 1
PROPOSED PIPE AND HEADWALL
PLAN AND PROFILE

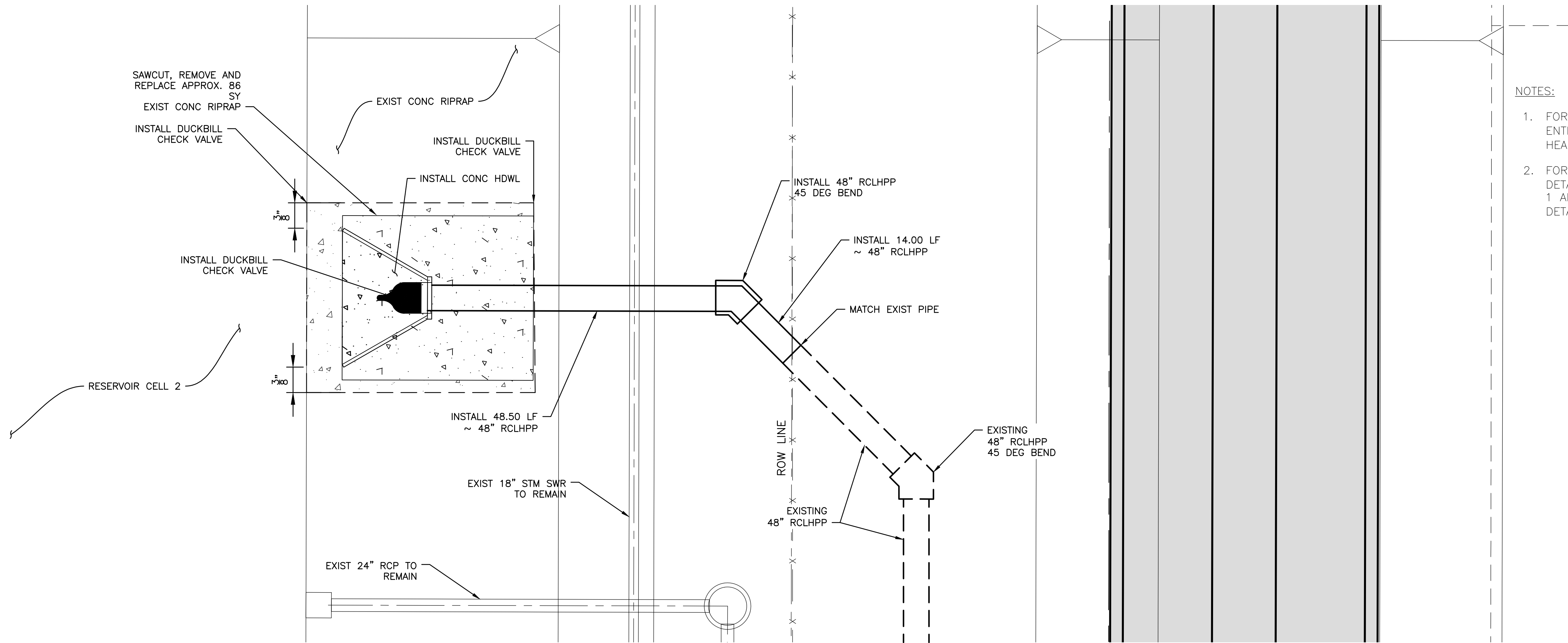
0 1" SCALE BAR IS ONE INCH ON ORIGINAL DRAWINGS

PROJECT NO: 4658-02

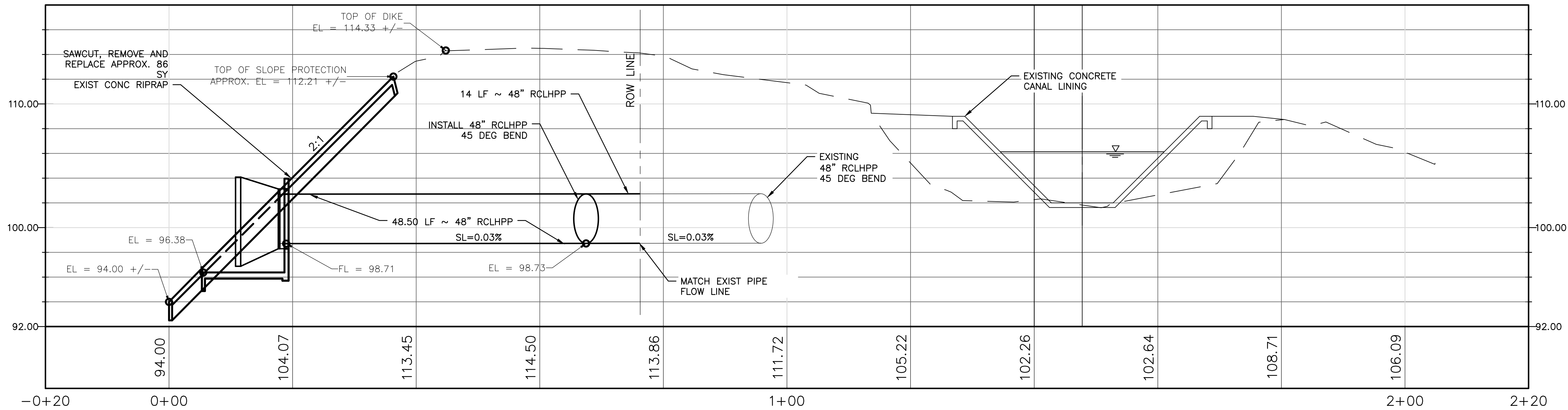
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SHEET NO: 14

Jun 25, 2020 - 1:16pm - matias.ramos3
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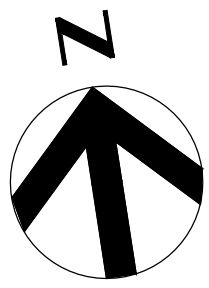
PLAN



ELEVATION

NOTES:

1. FOR HEADWALL DETAILS SEE SHEET ENTITLED "CELL 1 AND 2 HEADWALL DETAIL"
2. FOR DUCKBILL CHECK VALVE DETAIL SEE SHEET ENTITLED "CELL 1 AND 2 DUCKBILL CHECK VALVE DETAIL"



REVISIONS

NO.	DATE	DESCRIPTION
A	09/01/19	ISSUED FOR REVIEW
B	06/10/20	ISSUED FOR BID
B	06/25/20	ISSUE FOR BID ADDENDUM #2

DESIGNED BY: CAP

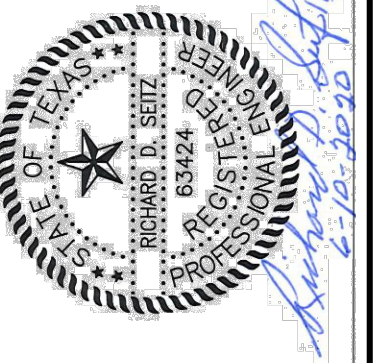
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CHECKED BY: JV

APPROVED BY: RS

DATE: SEPTEMBER 2019

DANNENBAUM
ENGINEERING COMPANY-MCALLEEN, LLC
1109 Nolana Loop, Suite 200 McAllen, TX 78504 (956) 682-3877
TYPE REGISTRATION NO. F4939



CITY OF EDINBURG
WEST WATER TREATMENT PLANT
RESERVOIR IMPROVEMENTS

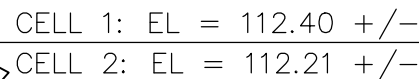
CELL 2
PROPOSED PIPE AND HEADWALL
PLAN AND PROFILE

SCALE BAR IS ONE INCH
ON ORIGINAL DRAWINGS

PROJECT NO:
4658-02

DRAWING NO:
0100C-004

SHEET NO:
15


$$1/4'' = 1' - 0''$$

$$1/4'' = 1' - 0''$$

$$1/4'' = 1' - 0''$$

CITY OF EDINBURG

2



DANNENBAUM

AP

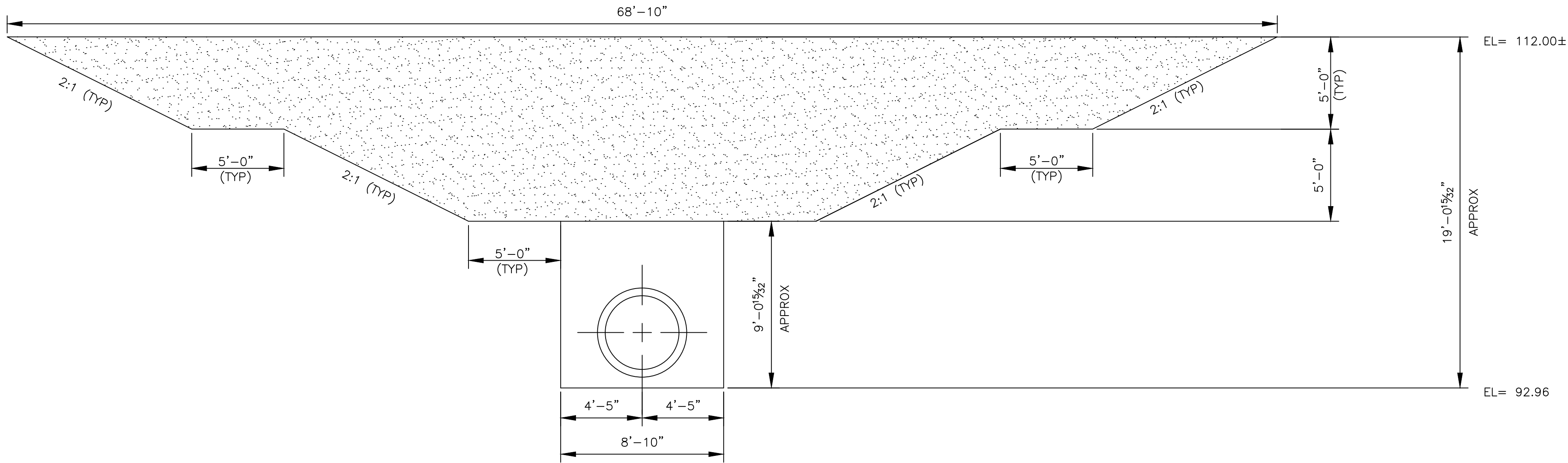
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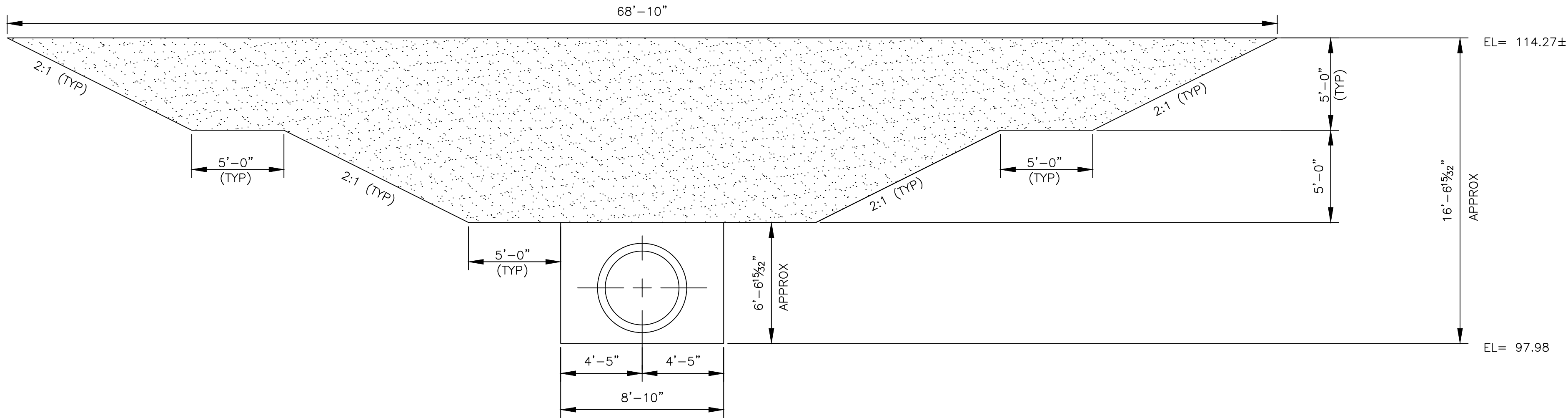
REVISIONS:

1. CONCRETE TO HAVE 3000 P.S.I. SHALL BE MINIMUM.
2. ALL STEEL TO BE GRADE 60.
3. MIN. 90% COMPACTION STD. PROCTOR DENSITY.
4. REINFORCING STEEL SHALL BE 6 X 6 #6 WIRE MESH.
5. LINE ALL JOINTS WITH HYDROPHILIC WATER STOP.
6. SEE SHEET 19 0100S-008 FOR HEADWALL DETAILS.
7. CONTRACTOR IS TO PROVIDE EXCAVATION/BACKFILL DIAGRAM FOR ENGINEERS REVIEW PRIOR TO BEGINNING CONSTRUCTION.

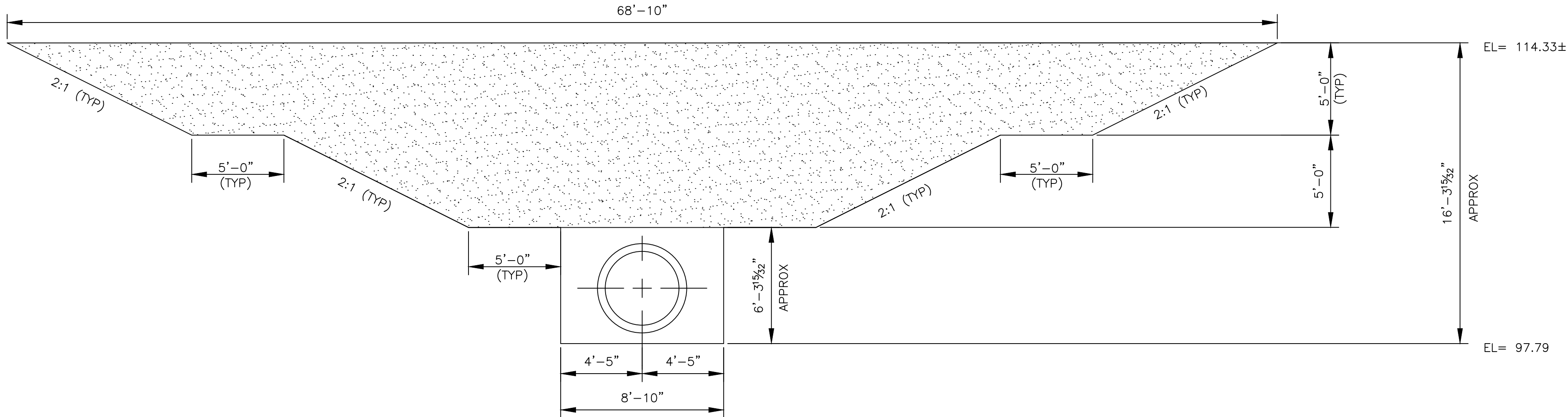
Jun 25, 2020 - 11:57am - motias.romos3
G:\1540\4658-02 E Edinburg WTP Reservoir Imps (2019-05)\08 Const Doc Ph\08.01 IFB Dwg\Sheet Files\017 0100C-005.dwg



CELL 5 GATEWELL



CELL 2 GATEWELL

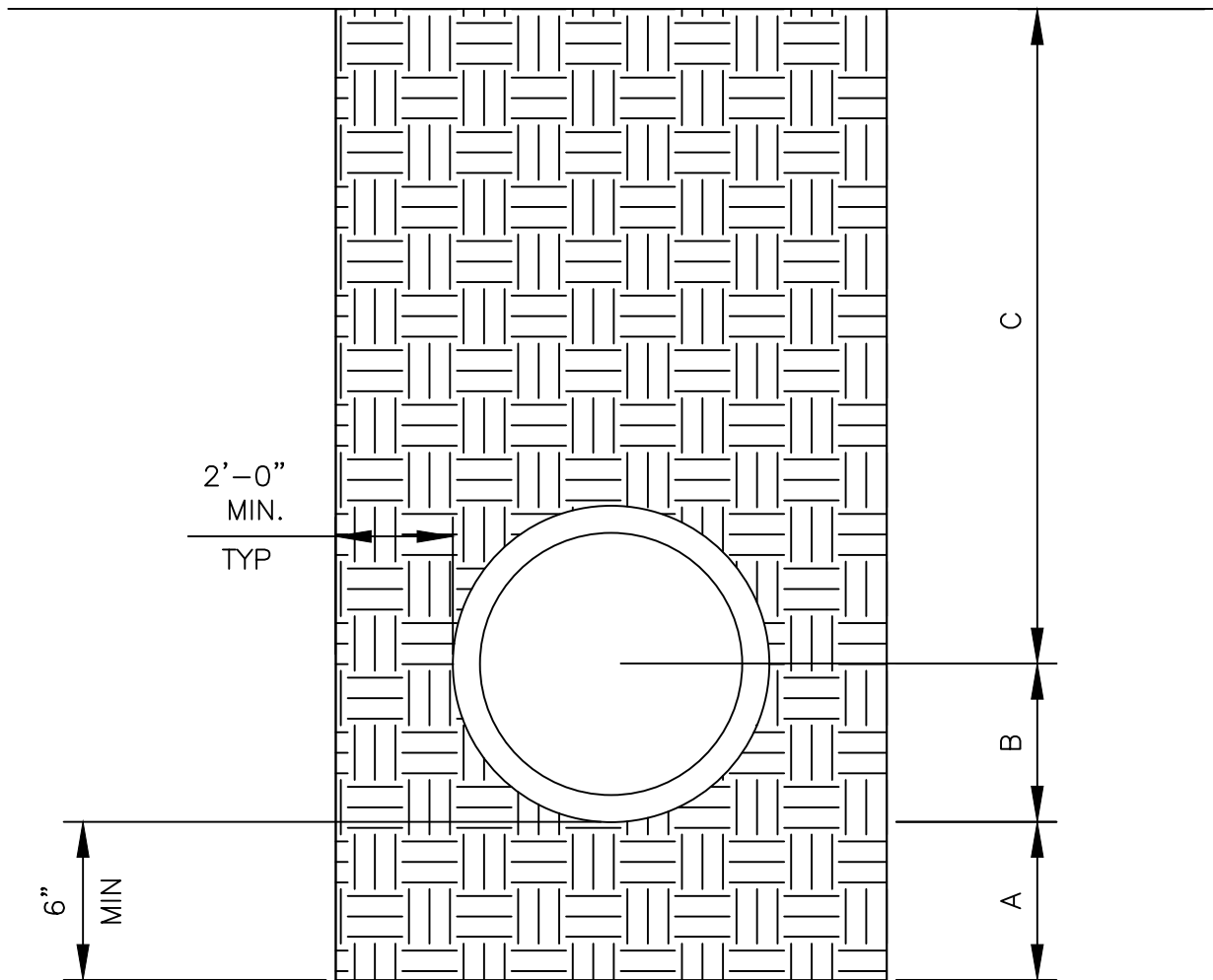


CELL 1 GATEWELL

- LEGEND
- DIKE ECAVATION/BACKFILL LIMITS
 - TRENCH ECAVATION/BACKFILL LIMITS

NOTES:

- QUANTITIES SHOWN ON THE SHEET ARE APPROXIMATE VALUES AND ARE FOR CONTRACTOR INFORMATION ONLY.
- FOUNDATION PREPARATION (WELLPOINTS, GRAVEL AND/OR CEMENT STABILIZATION , OR APPROVED SUBSTITUTE) SHALL BE REQUIRED WHEN TRENCH BOTTOM IS UNSTABLE.
- DIKE EMBANKMENT BACK FILLING ABOVE TRENCH BACKFILL SHALL BE PLACED IN UNIFORM LAYERS, MOISTENED AS REQUIRED TO APPROXIMATE OPTIMUM MOISTURE CONTENTS AND COMPACTED TO 95% STANDARD PROCTOR DENSITY. THE THICKNESS OF EACH LOOSE LAYER SHALL NOT EXCEED 12".
- ALL BACKFILL IS SUBJECT TO INSPECTION, TESTING AND APPROVAL BY THE CITY ENGINEER'S OFFICE. CITY'S DESIGNATED MATERIAL TESTING COMPANY.
- SEE PLAN AND PROFILE SHEETS FOR ADDITIONAL DETAILS.



STANDARD PIPE BEDDING DETAIL

- ALL PIPE BEDDING MATERIAL SHALL CONSIST OF DIKE EMBANKMENT (PI < 20) AND COMPACTED TO 95% STD PROCTOR.
- DIKE EMBANKMENT BEDDING PLACED BEFORE PIPE IS LAID UP TO FLOW LINE OF PIPE. (MIN. THICKNESS = 6"DIKE EMBANKMENT BACK FILL PLACED AFTER PIPE IS LAID FROM BOTTOM OF PIPE TO SPRING LINE OF PIPE. (4" LIFTS, MECH. TAMPED).
- PIPE BEDDING MATERIAL PLACED ABOVE THE SPRING LINE OF THE PIPE SHALL BE PLACED IN 6" LIFTS.

DESIGNED BY: CAP	NO.	DATE	REVISIONS
	A	09/01/19	ISSUED FOR REVIEW
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DRAWN BY: MR/II			
CHECKED BY: JV			
APPROVED BY: RS			
DATE: SEPTEMBER 2019			

DANNENBAUM
ENGINEERING COMPANY-MCALLEEN, LLC
1109 Nolana Loop, Suite 200 McAllen, TX 78504 (956) 682-3877
TYPE REGISTRATION No. F-4939

CITY OF EDINBURG
WEST WATER TREATMENT PLANT
RESERVOIR IMPROVEMENTS

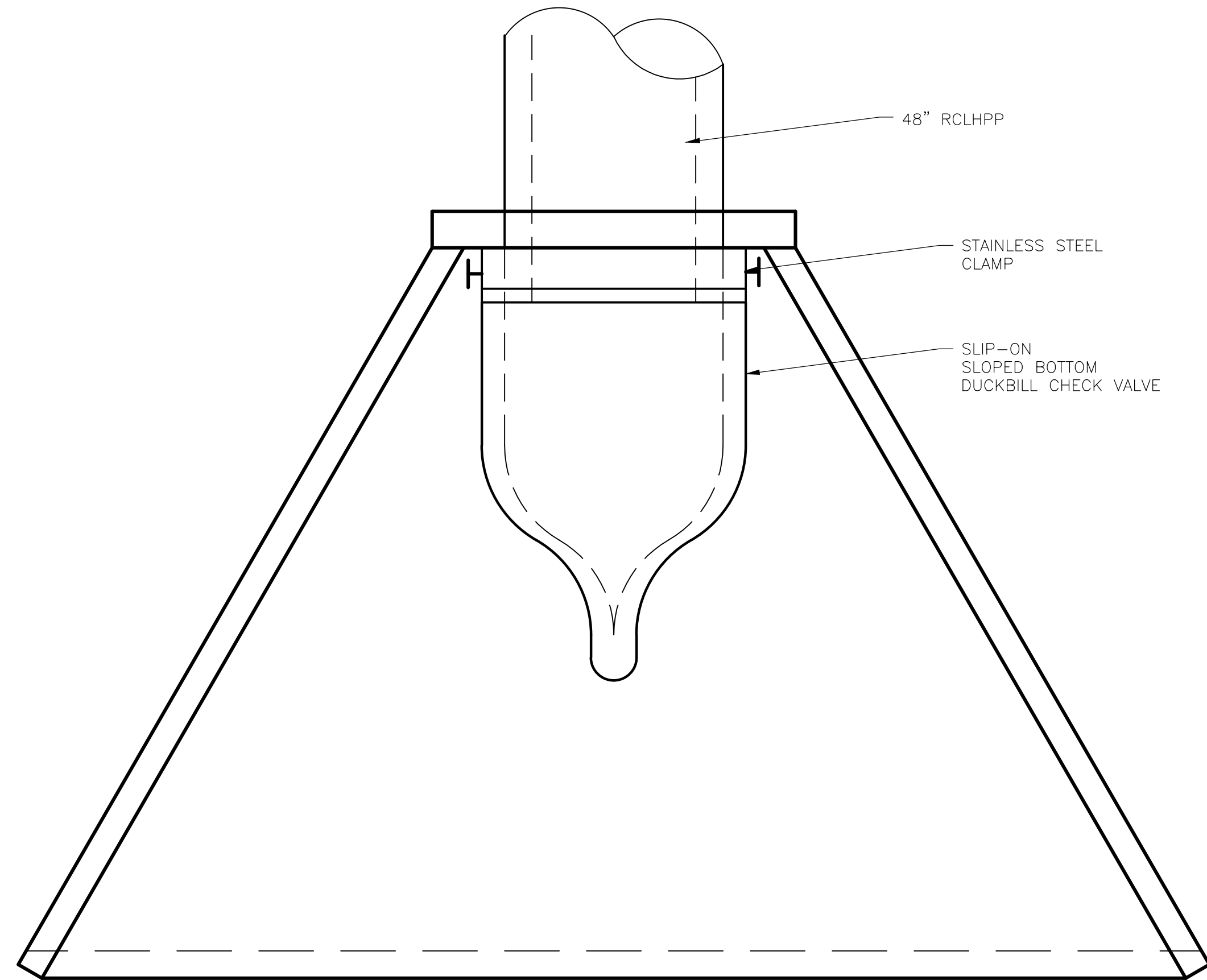
DIKE/PIPE EXCAVATION/BACKFILL
DIAGRAM

0 1"
SCALE BAR IS ONE INCH
ON ORIGINAL DRAWINGS

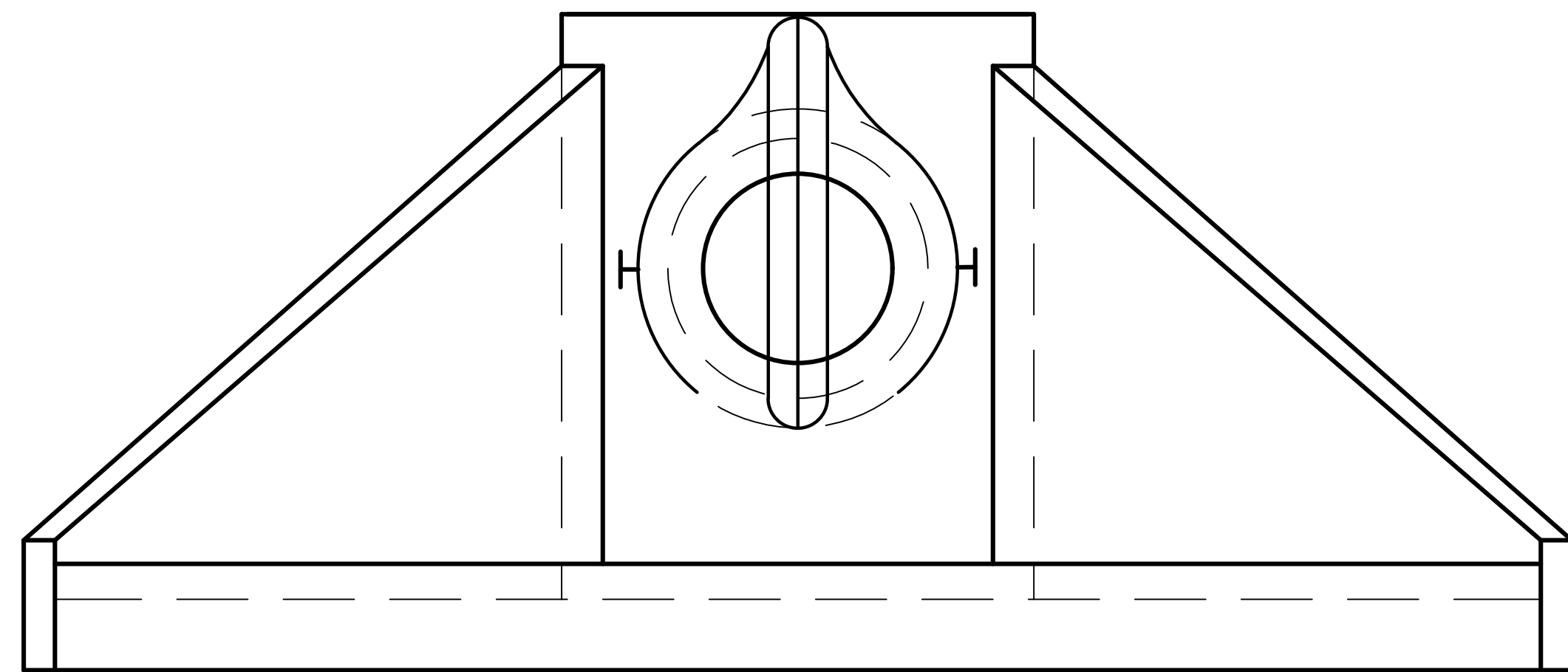
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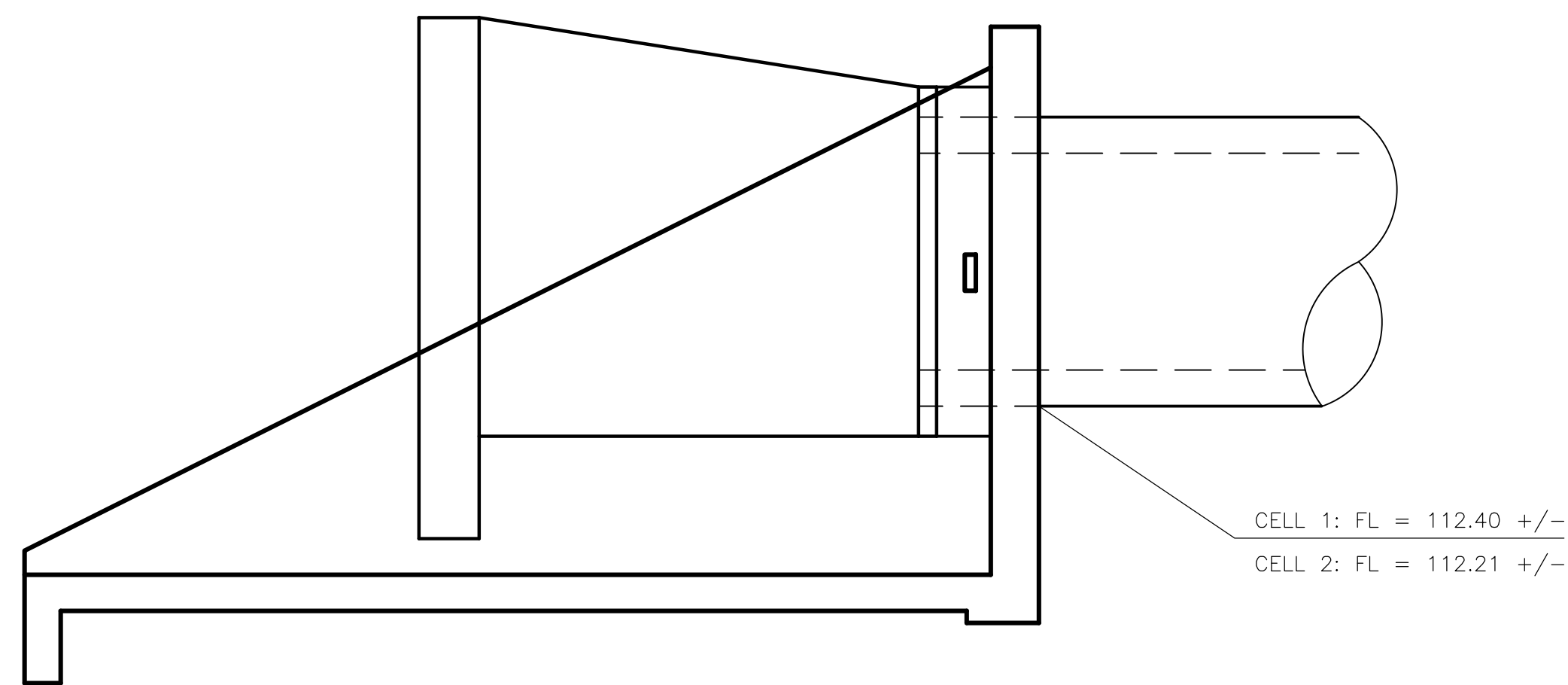
SHEET NO:
17



PLAN
NTS



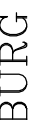

ELEVATION
NTS



TYPICAL WING ELEVATION
NTS

NOTES:

1. DUCKBILL CHECK VALVE SHALL BE SLIP-ON TYPE WITH HEAVY DUTY STAINLESS STEEL CLAMP, AS MANUFACTURED BY CLA-VAL (RF-DBD-SB), TIDEFLEX (SERIES TF-1), PROFLEX (PROCO STYLE 730) OR EQUAL.
2. FOR HEADWALL DETAILS, SEE SHEET ENTITLED "CELL 1 AND 2 HEADWALL DETAIL."
3. DUCKBILL CHECK VALVE MATERIAL SHALL BE PER MANUFACTURER'S RECOMMENDATION FOR INTENDED USE.

CITY OF EDINBURG WEST WATER TREATMENT PLANT RESERVOIR IMPROVEMENTS		CELL 1 AND 2 DUCKBILL CHECK VALVE DETAIL	
 SCALE BAR IS ONE INCH ON ORIGINAL DRAWINGS		PROJECT NO: 4658-02	
DRAWING NO: 0100S-009		SHEET NO: 19	
 <i>Richard L. Seitz</i> 6-10-2020		DANNENBAUM ENGINEERING COMPANY-McALLEN, LLC 1109 Nolana Loop Houston, TX 77058 (281) 882-3677 TBE E REGISTRATION NO. F4993	
DESIGNED BY: CAP		REVISIONS	
DRAWN BY: MR/III		NO.	DATE
		A	09/01/19
		B	06/10/20
		B	06/25/20
CHECKED BY: JV		ISSUED FOR REVIEW ISSUED FOR BID ISSUE FOR BID APPENDUM #2	
APPROVED BY: RS			
DATE: SEPTEMBER 2019			