



WEAVER GENERAL CONSTRUCTION COMPANY
 3679 S. Huron St., Suite 404
 Englewood, CO 80110
 Phone: (303) 789-4111 FAX: (303) 789-4310

SUBMITTAL TRANSMITTAL

June 14, 2011

WGC Submittal No: 03100-007

PROJECT: **Harold Thompson Regional WRF**
 Birdsell Rd.
 Fountain, CO 80817
 Job No. 2908

ENGINEER: **GMS, Inc.**
 611 No. Weber St., #300
 Colorado Springs, CO 80903
 719-475-2935 Roger Sams

OWNER: **Lower Fountain Metropolitan
 Sewage Disposal District**
 901 S. Santa Fe Ave.
 Fountain, CO 80817
 719-382-5303 James Heckman

CONTRACTOR: **Garney Companies Inc.**
 7911 Shaffer Parkway
 Littleton, CO 80127
 303-791-3600 Dennis Van Auken

SUBJECT: Concrete Placement Sequence - Clarifiers #1 & #2 (SC-1 thru SC-11)

SPEC SECTION: 03100

PREVIOUS SUBMISSION DATES: None

DEVIATIONS FROM SPEC: ___ YES X NO

CONTRACTOR'S STAMP: This submittal has been reviewed by Weaver General Construction and approved with respect to the means, methods, techniques, & safety precautions & programs incidental thereto. Weaver General Construction also warrants that this submittal complies with contracted documents and comprises on deviations thereto:

Contractor's Stamp:

Engineer's Stamp:

Date: 6/14/11
 Reviewed by: H.C. Myers
 (X) Reviewed Without Comments
 () Reviewed With Comments

**ENGINEER'S
 COMMENTS:** _____

Garney Construction, Inc.

7911 Shaffer Parkway
Littleton, CO 80127

SUBMITTAL**NO. 00009**

Phone: 303-791-3600
Fax: 303-791-1801

Title: Concrete Placment Sequence**DATE:** 6-13-11**PROJECT:** Harold D. Thompson**JOB:** 6591**TO:** Jeff Burst with Weaver General Construction**REQUEST:**

Garney request to make one slab placement with four wall placements per Clarifier. Garney request to use Quadrant points on page SC-3 for wall Construction joints.

Garney request to place Launder deck in one placement.

Garney request to place Launder walls in one placement.

Reference Specification Section 03100-2, 1.3

Reference Drawing SC-3 for Quadrant points.

Placement Sequence Clarifier #1-#2

- 1-Thickened Sump @ Clarifier #2
- 2-Under Slab Pipe @ Clarifier #2
- 3-Slab on Grade @ Clarifier #2
- 4-Thickened Sump @ Clarifier #1
- 5-Wall Placement 1 @ Clarifier #2
- 6-Thickened Sump @ Clarifier #1
- 7-Underslab Pipe @ Clarifier #1
- 8-Slab on Grade @ Clarifier #1
- 9-Wall Placement 2 @ Clarifier #2
- 10-Wall Placement 3 @ Clarifier #2
- 11-Wall Placement 4 @ Clarifier #2
- 12-Wall Placement 1 @ Clarifier #1
- 13-Wall Placement 2 @ Clarifier #1
- 14-Wall Placement 3 @ Clarifier #1
- 15-Wall Placement 4 @ Clarifier #1
- 16-Launder Trough Deck @ Clarifier #2
- 17-Launder Trough Walls @ Clarifier #2
- 18-Launder Trough Deck @ Clarifier # 1
- 19-Launder Trough Walls @ Clarifier # 1
- 20-Scum Well Slab @ Clarifier # 2
- 21-Scum Well Walls @ Clarifier #2
- 22-Scum Well Slab @ Clarifier #1
- 23-Scum Well Walls @ Clarifier #1
- 24-Scum Well Fillet @ Clarifier #2
- 25-Scum Well Fillet @ Clarifier #1

Date: 6-13-11

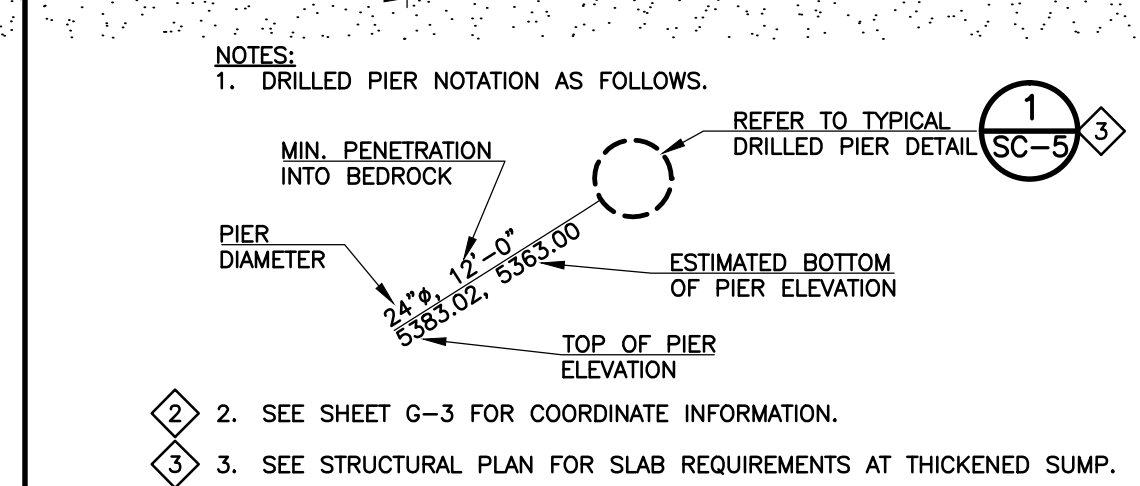
Signed: Dennis Van Auken

Answered By:

Date: _____ Signed: _____

SEE PUMPING AND DISINFECTION BUILDING (PD) DRAWINGS

MATCH LINE



1 SECONDARY CLARIFIER DRILLED PIER PLAN
SCALE: 1" = 5'

SHEET NOTE:
1. DRILLED PIER SIZES MUST BE VERIFIED WHEN FINAL EQUIPMENT MANUFACTURER DESIGN LOADS ARE PROVIDED.

PERIMETER DRILLED PIERS ARE CENTERED UNDER TANK WALL (TYP)

CL OF DRILLED PIERS (TYP)

TANK WALL (TYP)

REVISIONS		
NO.	DATE	DESCRIPTION
1	08/24/2010	ISSUED FOR EARTHWORK QUOTE
2	10/29/2010	ISSUED FOR EXCAVATION AROUND SECONDARY CLARIFIER TANKS
3	03/30/2011	ISSUED FOR BUILDING PERMIT SUBMITTAL TO PPRBD (SECONDARY CLARIFIER COMPLEX)

THIS DRAWING IS THE PROPERTY OF GMS, INC., AND IS NOT TO BE REPRODUCED, MODIFIED OR USED FOR ANY OTHER PROJECT OR EXTENSION OF THIS PROJECT EXCEPT BY AGREEMENT WITH THIS COMPANY.

DRILLED PIER PLAN
HAROLD D. THOMPSON REGIONAL WATER RECLAMATION FACILITY
LOWER FOUNTAIN METROPOLITAN SEWAGE DISPOSAL DISTRICT

DRAWN	MAM/MAL
DESIGNED	JP
CHECKED	MG
DATE	2010
PROJECT NO.	20166.362
GMS FILE NO.	2599

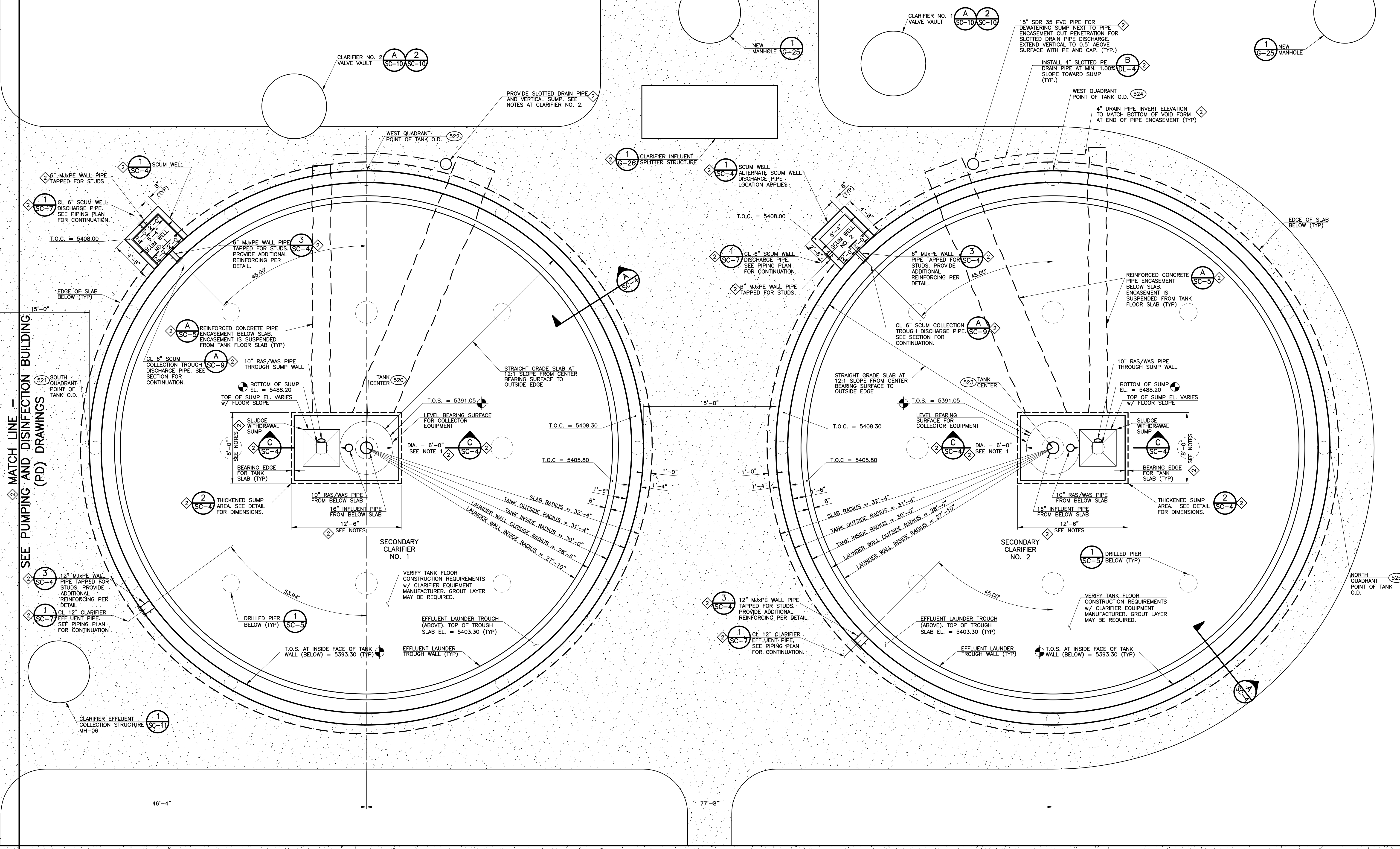
GMS, INC.
CONSULTING ENGINEERS
611 N. WEBER, SUITE 300
COLORADO SPRINGS, COLORADO 80903

SHEET **SC-1** OF **1**

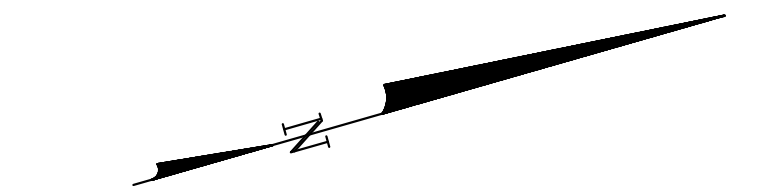
XREF FILENAME: SC-1
BASE DWG: G-3
PLOT STYLE FILE: 1000.ctb
FILENAME: G:\P\MSD\20166\362\SC1\SC1.DWG

G:\P\MSD\20166\362\SC1\SC1.dwg, 5/14/2011 11:52:55 AM, user: DWG TO PDF, job: 11

MATCH LINE - SEE PUMPING AND DISINFECTION BUILDING (PD) DRAWINGS



- NOTES:**
1. THE CONTRACTOR SHALL VERIFY ALL SLAB DIMENSIONS AT THE SLUDGE WITHDRAWAL SUMP AND LEVEL BEARING SURFACE AT THE CENTER OF EACH CLARIFIER WITH THE REQUIREMENTS OF THE EQUIPMENT FURNISHED PRIOR TO POURING THE SLABS TO ENSURE CONFORMITY. REFER TO PROCESS PIPING AND EQUIPMENT DRAWINGS.
 2. REFER TO PROCESS PIPING AND EQUIPMENT DRAWINGS AND APPROVED SHOP SUBMITTAL DRAWINGS FOR RELATED REQUIREMENTS OF EQUIPMENT, PIPING AND APPURTENANCES.
 3. T.O.S. = 5392.05 = TOP OF SLAB ELEVATION
 4. T.O.C. = TOP OF CONCRETE ELEVATION
 5. SEE SHEET G-3 FOR COORDINATE INFORMATION.



1 SECONDARY CLARIFIER STRUCTURAL PLAN
SCALE: 1" = 5'

REVISIONS		
NO.	DATE	DESCRIPTION
1	10/29/2010	ISSUED FOR EXCAVATION AROUND SECONDARY CLARIFIER TANKS
2	03/30/2011	ISSUED FOR BUILDING PERMIT SUBMITTAL TO PPRBD (SECONDARY CLARIFIER COMPLEX)

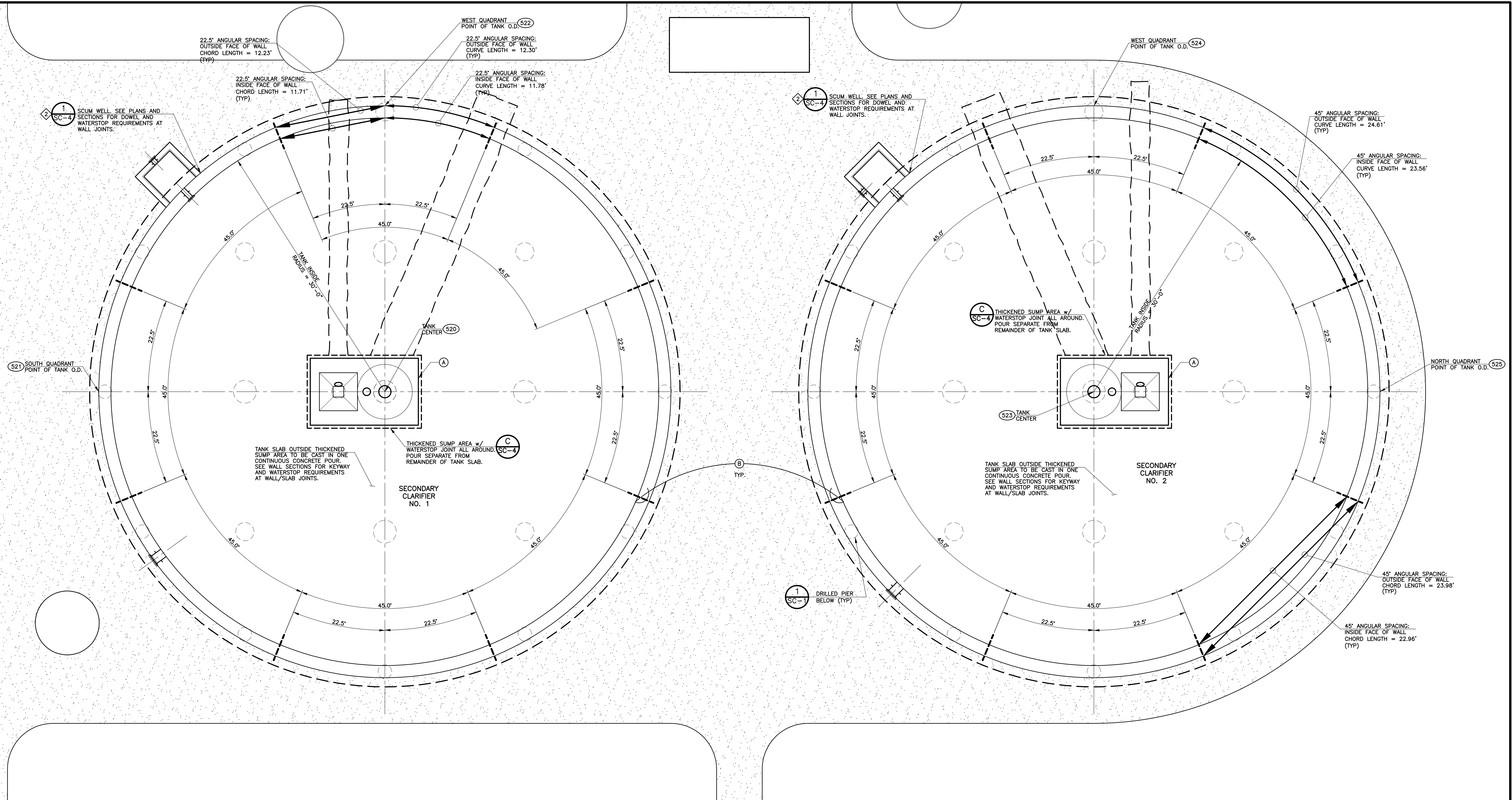
THIS DRAWING IS THE PROPERTY OF GMS, INC., AND IS NOT TO BE REPRODUCED, MODIFIED OR USED FOR ANY OTHER PROJECT OR EXTENSION OF THIS PROJECT EXCEPT BY AGREEMENT WITH THIS COMPANY.

STRUCTURAL PLAN
HAROLD D. THOMPSON REGIONAL WATER RECLAMATION FACILITY
LOWER FOUNTAIN METROPOLITAN SEWAGE DISPOSAL DISTRICT

DRAWN: MAM/SKC	GMS, INC.	SHEET SC-2
CHECKED: MG	CONSULTING ENGINEERS	OF
DATE: 2010	611 N. WEBER, SUITE 300	-
PROJECT NO.: 20166.362	COLORADO SPRINGS, COLORADO 80903	
GMS FILE NO.: 2599		

G:\UNSD001\06\SC2\SC2.dwg, SEC 4.01(2011.11.03) 2:20 AM, User: DWG TO PDF, Job: 11

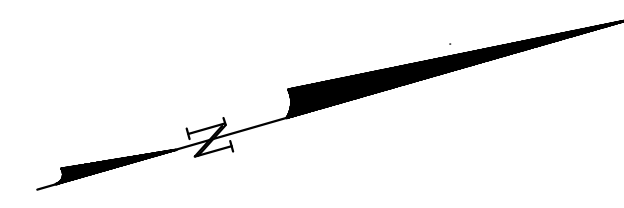
XREF FILENAME: G:\BASE DWG\G:\PLOT STYLE FILES\ISOCTB10.PLOT, FILENAME: G:\UNSD001\06\SC2\SC2.dwg



NOTES:

1. ———— A — KEYED SLAB CONSTRUCTION JOINT WITH MIN. 8" CONTINUOUS WATERSTOP
2. ———— B — KEYED WALL CONSTRUCTION JOINT WITH MIN. 8" CONTINUOUS WATERSTOP
3. ALL WALL JOINTS SHALL BE A MINIMUM OF 4 FEET FROM THE CENTER OF ANY DRILLED PIER
4. REFER TO THE DRILLED PIER PLANS FOR DETAILS ON DRILLED PIER LOCATIONS
5. REFER TO STRUCTURAL PLANS FOR DETAILED STRUCTURAL INFORMATION
6. REFER TO PIPING AND EQUIPMENT PLANS FOR REQUIREMENTS OF PIPING, ENCASMENTS AND APPURTENANCES BELOW TANK SLABS
7. REFER TO SHEET G-3 FOR COORDINATE INFORMATION

1 SECONDARY CLARIFIER COMPLEX STRUCTURE JOINTING PLAN
 SCALE: 1" = 5'



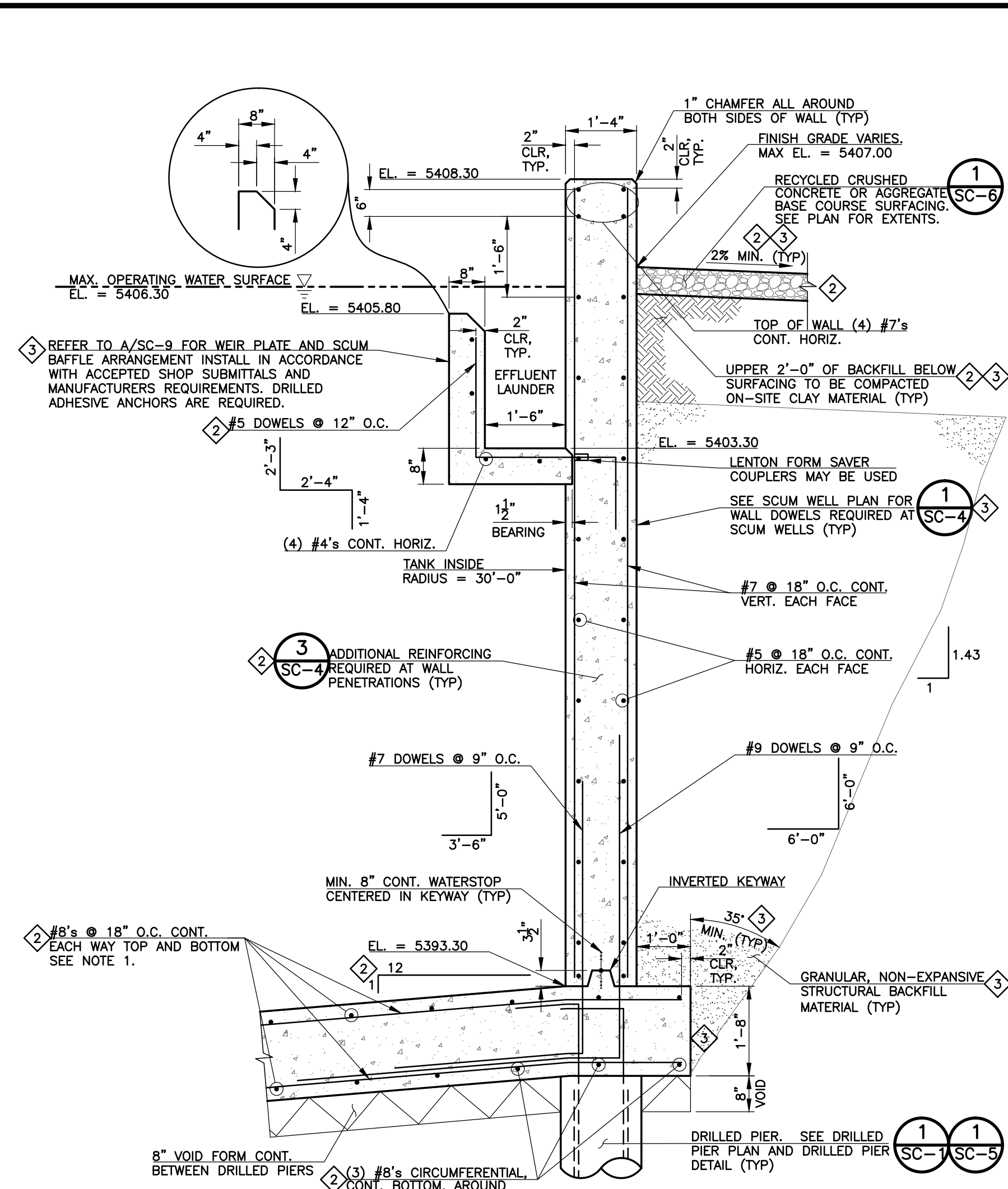
REVISIONS		
NO.	DATE	DESCRIPTION
1	10/29/2010	ISSUED FOR EXCAVATION AROUND SECONDARY CLARIFIER TANKS
2	03/30/2011	ISSUED FOR BUILDING PERMIT SUBMITTAL TO PPRBD (SECONDARY CLARIFIER COMPLEX)

THIS DRAWING IS THE PROPERTY OF GMS, INC., AND IS NOT TO BE REPRODUCED, MODIFIED OR USED FOR ANY OTHER PROJECT OR EXTENSION OF THIS PROJECT EXCEPT BY AGREEMENT WITH THIS COMPANY.

© 2010 GMS, INC.

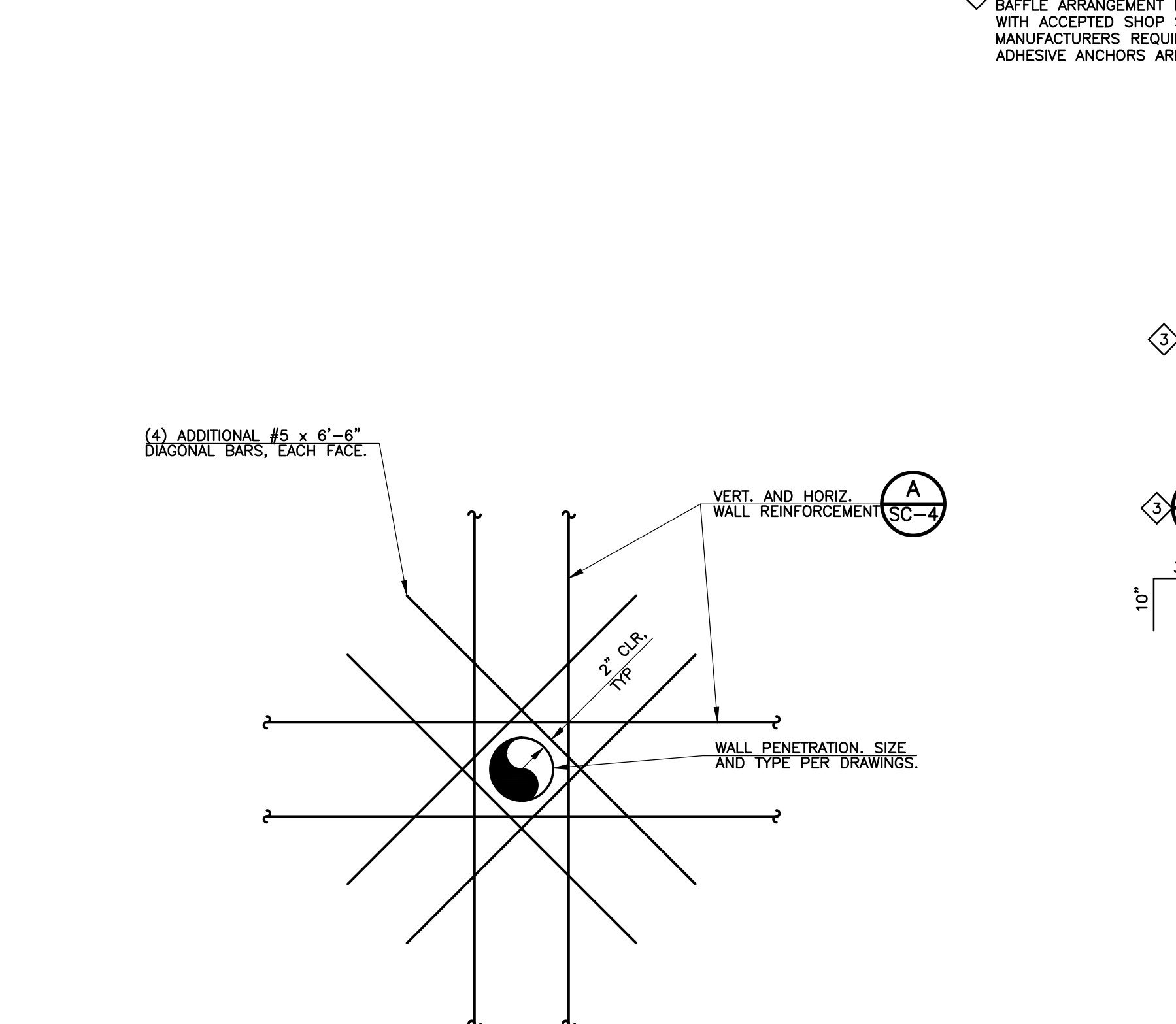
JOINTING PLAN
 HAROLD D. THOMPSON REGIONAL WATER RECLAMATION FACILITY
 LOWER FOUNTAIN METROPOLITAN SEWAGE DISPOSAL DISTRICT

DRAWN: MAM DESIGNED: MAM/JIP CHECKED: MG DATE: 2010 PROJECT NO.: 20166.362 GMS FILE NO.: 2599	GMS, INC. CONSULTING ENGINEERS 611 N. WEBER, SUITE 300 COLORADO SPRINGS, COLORADO 80903	SHEET SC-3 OF —
--	---	---------------------------------



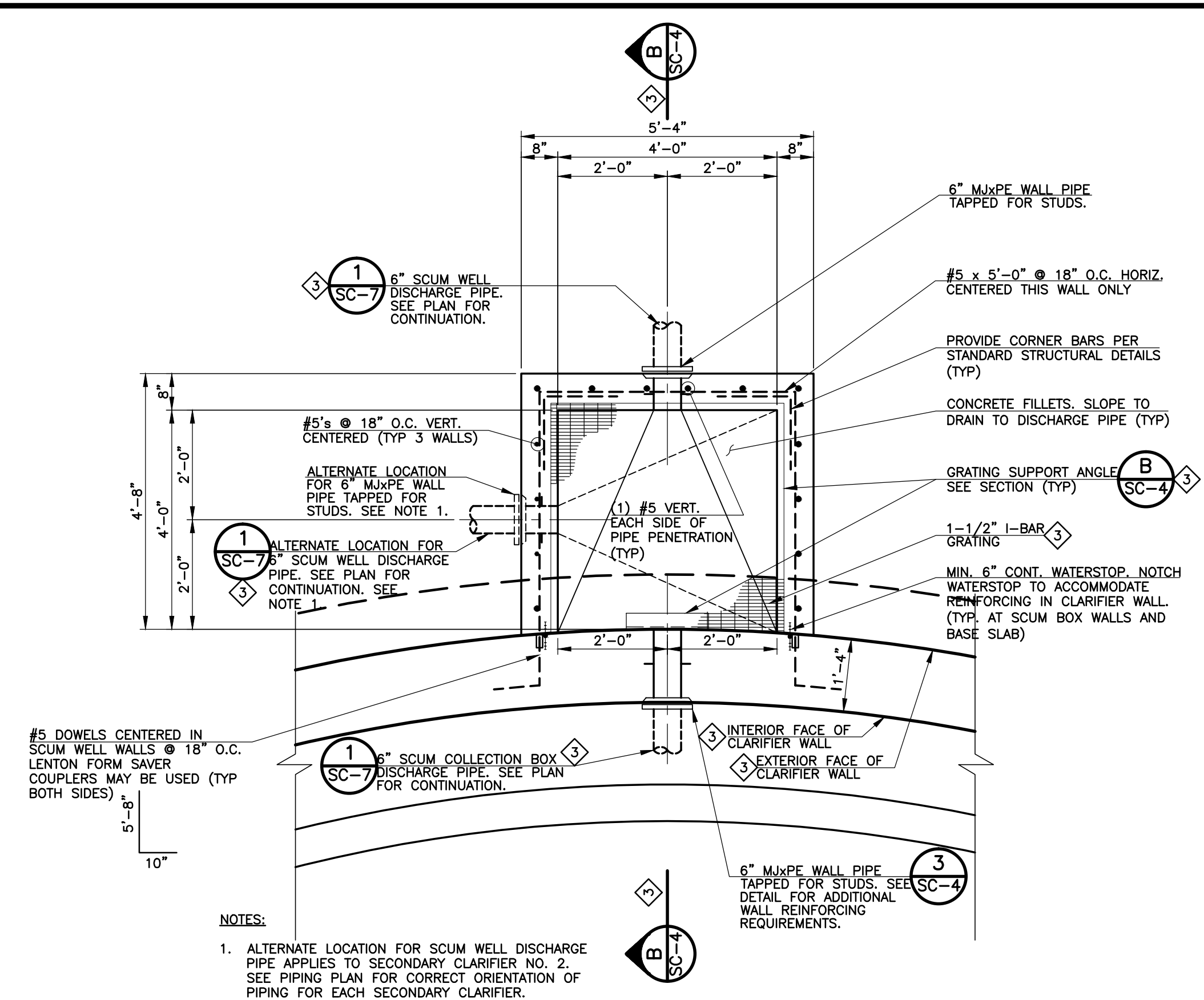
NOTE:
1. THE TOP AND BOTTOM MAT OF REINFORCING IN THE CLARIFIER TANK SLABS SHALL BE LAID IN A SQUARE GRID PATTERN. THE ONLY CIRCUMFERENTIAL BARS ARE THOSE THREE BARS INDICATED IN THE BOTTOM MAT AROUND THE PERIMETER OF THE SLAB.

A SECONDARY CLARIFIER WALL SECTION
SCALE: 1/2" = 1'



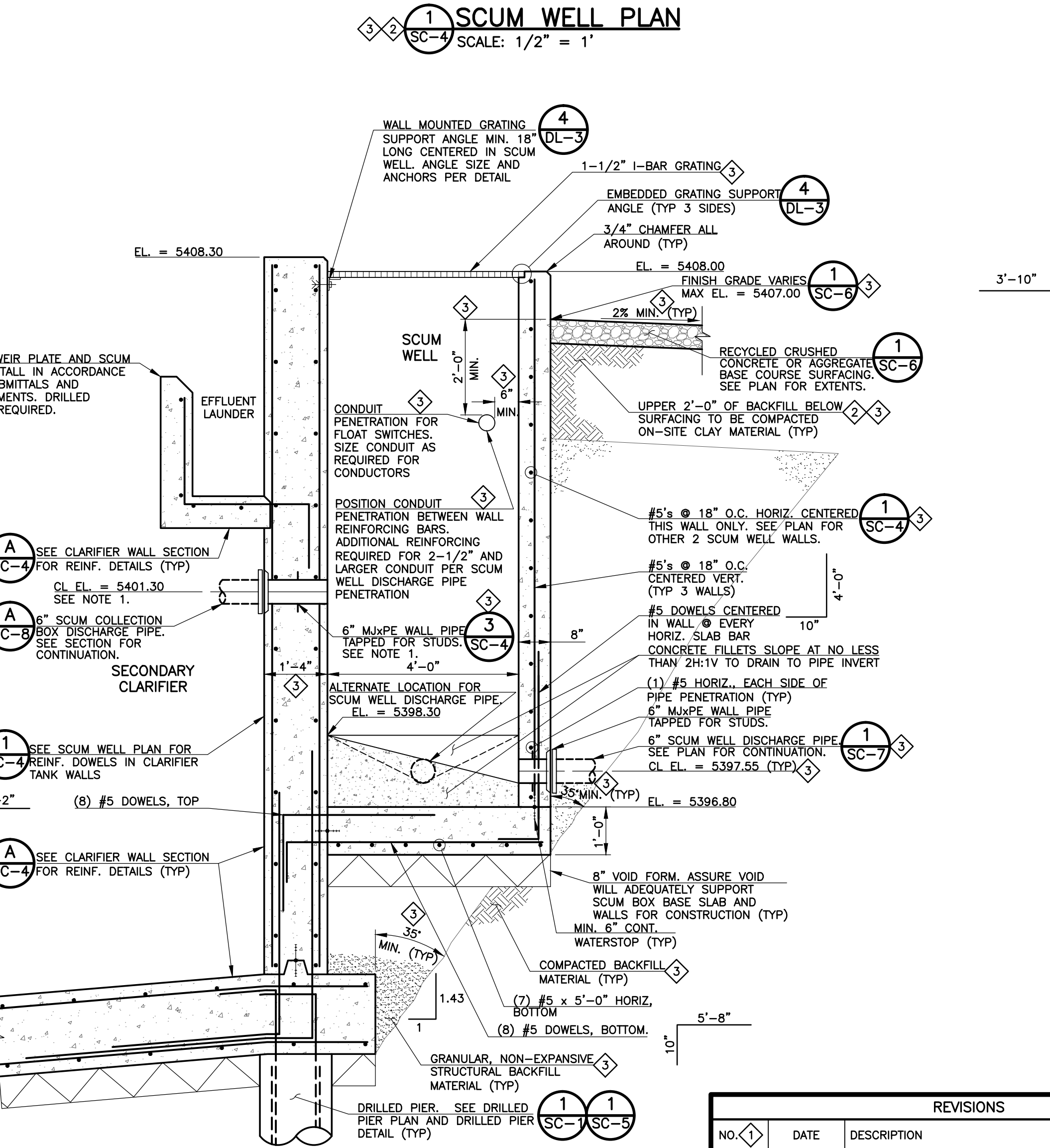
NOTE:
1. ADDITIONAL REINFORCING REQUIREMENTS SHOWN ABOVE APPLIES TO ALL PENETRATIONS IN THE SECONDARY CLARIFIER WALLS THAT ARE 1'-2" IN DIAMETER OR LESS.

3 ADDITIONAL REINFORCING AT PIPE PENETRATIONS IN SECONDARY CLARIFIER WALLS
SCALE: 1/2" = 1'-0"



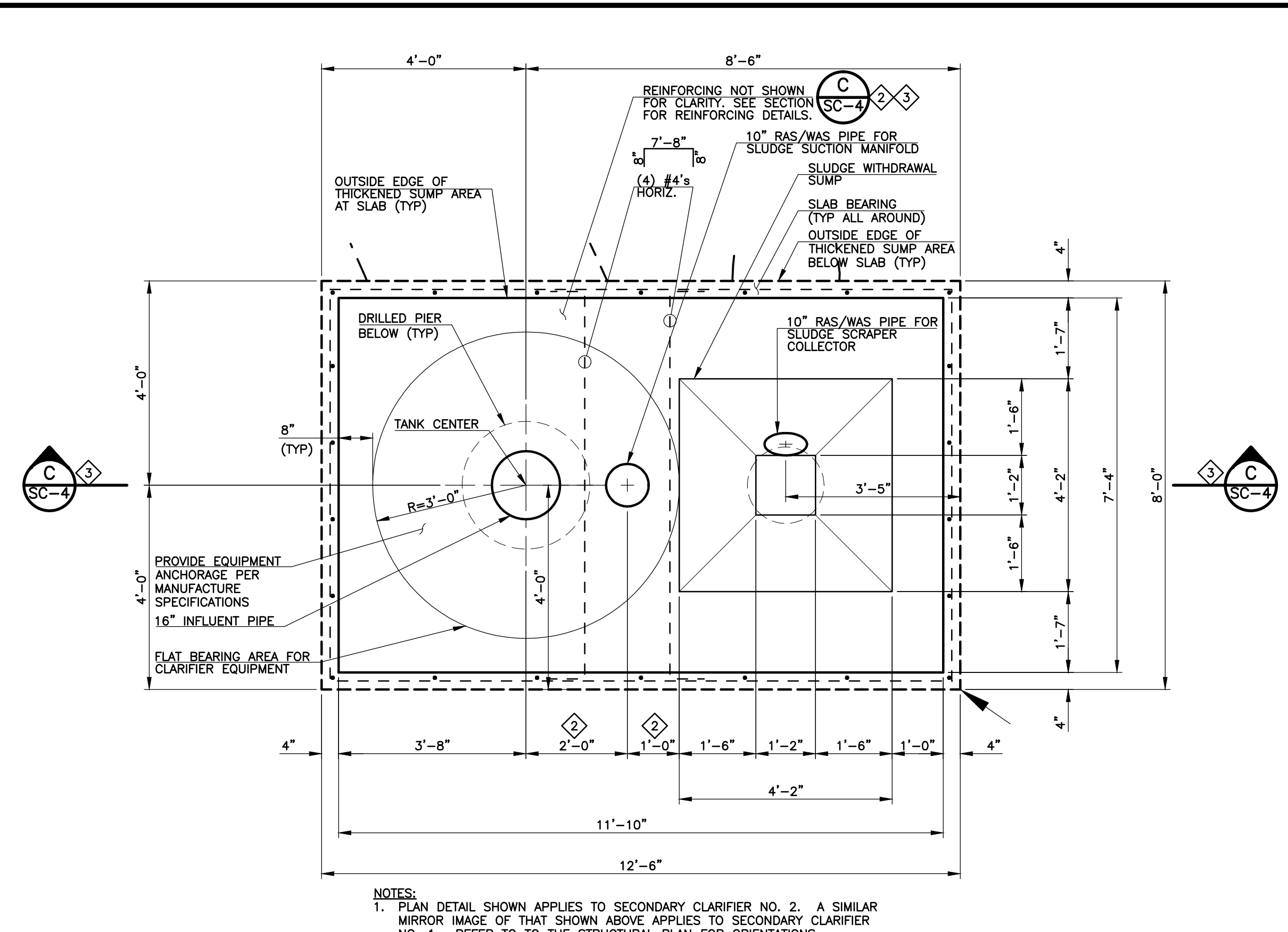
NOTES:
1. ALTERNATE LOCATION FOR SCUM WELL DISCHARGE PIPE APPLIES TO SECONDARY CLARIFIER NO. 2. SEE PIPING PLAN FOR CORRECT ORIENTATION OF PIPING FOR EACH SECONDARY CLARIFIER.

1 SCUM WELL PLAN
SCALE: 1/2" = 1'



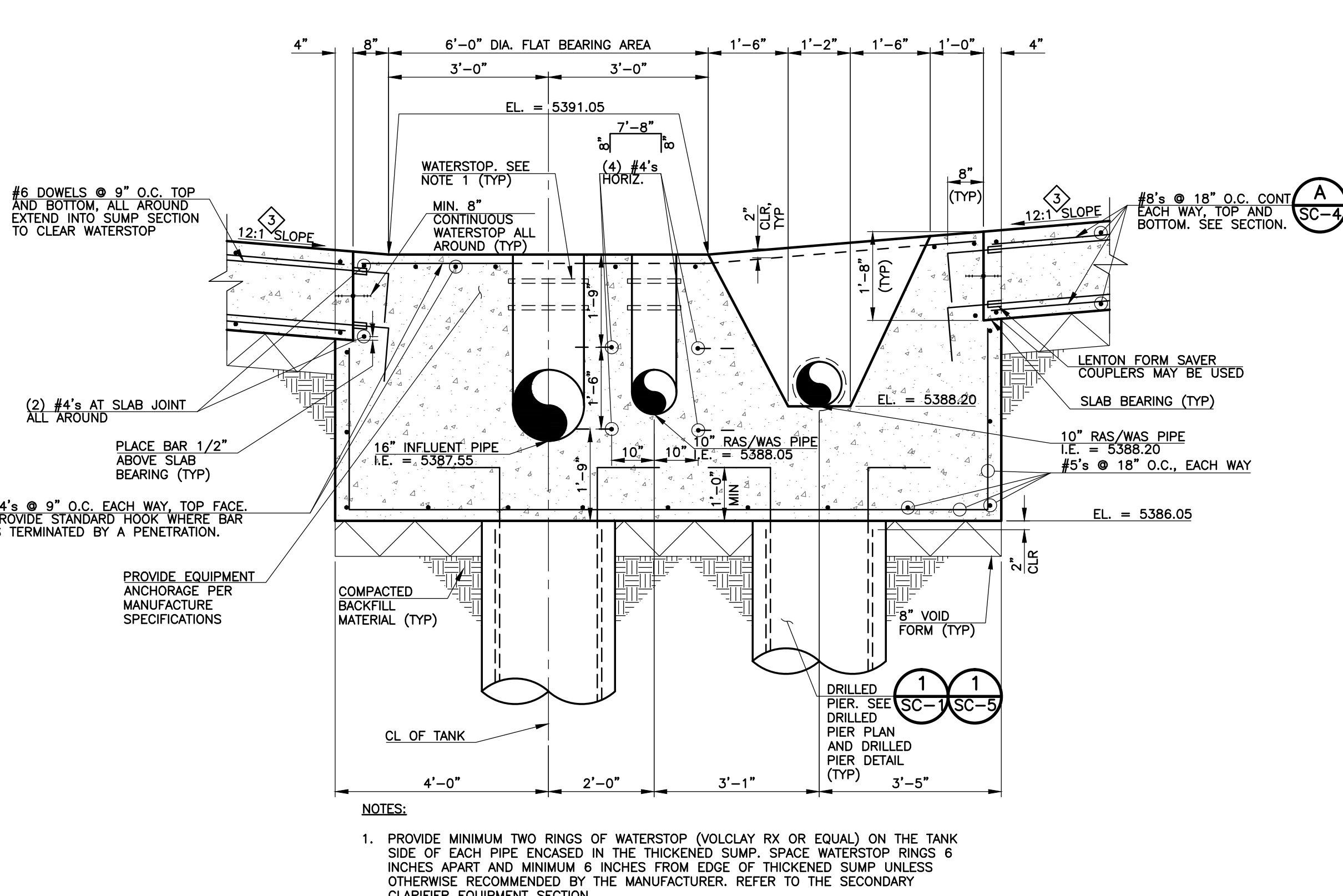
NOTES:
1. VERIFY PIPE ELEVATION WITH SECONDARY CLARIFIER EQUIPMENT PROVIDED.
2. SEE NOTE AT 1/SC-4 FOR WATERSTOP ACCOMMODATIONS.

B SCUM WELL SECTION
SCALE: 1/2" = 1'



NOTES:
1. PLAN DETAIL SHOWN APPLIES TO SECONDARY CLARIFIER NO. 2. A SIMILAR MIRROR IMAGE OF THAT SHOWN ABOVE APPLIES TO SECONDARY CLARIFIER NO. 1. REFER TO THE STRUCTURAL PLAN FOR ORIENTATIONS.
2. CONTRACTOR SHALL VERIFY ALL DIMENSIONS WITH THE CLARIFIER EQUIPMENT MANUFACTURE AND APPROVED SHOP SUBMITTAL DOCUMENTS PRIOR TO CONSTRUCTION.

2 SECONDARY CLARIFIER THICKENED SUMP DETAIL
SCALE: 1/2" = 1'



NOTES:
1. PROVIDE MINIMUM TWO RINGS OF WATERSTOP (VOLCLAY RX OR EQUAL) ON THE TANK SIDE OF EACH PIPE ENCASED IN THE THICKENED SUMP. SPACE WATERSTOP RINGS 6 INCHES APART AND MINIMUM 6 INCHES FROM EDGE OF THICKENED SUMP UNLESS OTHERWISE RECOMMENDED BY THE MANUFACTURER. REFER TO THE SECONDARY CLARIFIER EQUIPMENT SECTION.
2. CONTRACTOR SHALL VERIFY ALL DIMENSIONS WITH THE CLARIFIER EQUIPMENT MANUFACTURER AND APPROVED SHOP SUBMITTAL DOCUMENTS PRIOR TO CONSTRUCTION.

C SECONDARY CLARIFIER THICKENED SUMP SECTION
SCALE: 1/2" = 1'

REVISIONS		
NO.	DATE	DESCRIPTION
1	08/24/2010	ISSUED FOR EARTHWORK QUOTE
2	10/29/2010	ISSUED FOR EXCAVATION AROUND SECONDARY CLARIFIER TANKS
3	03/30/2011	ISSUED FOR BUILDING PERMIT SUBMITTAL TO PPRBD (SECONDARY CLARIFIER COMPLEX)

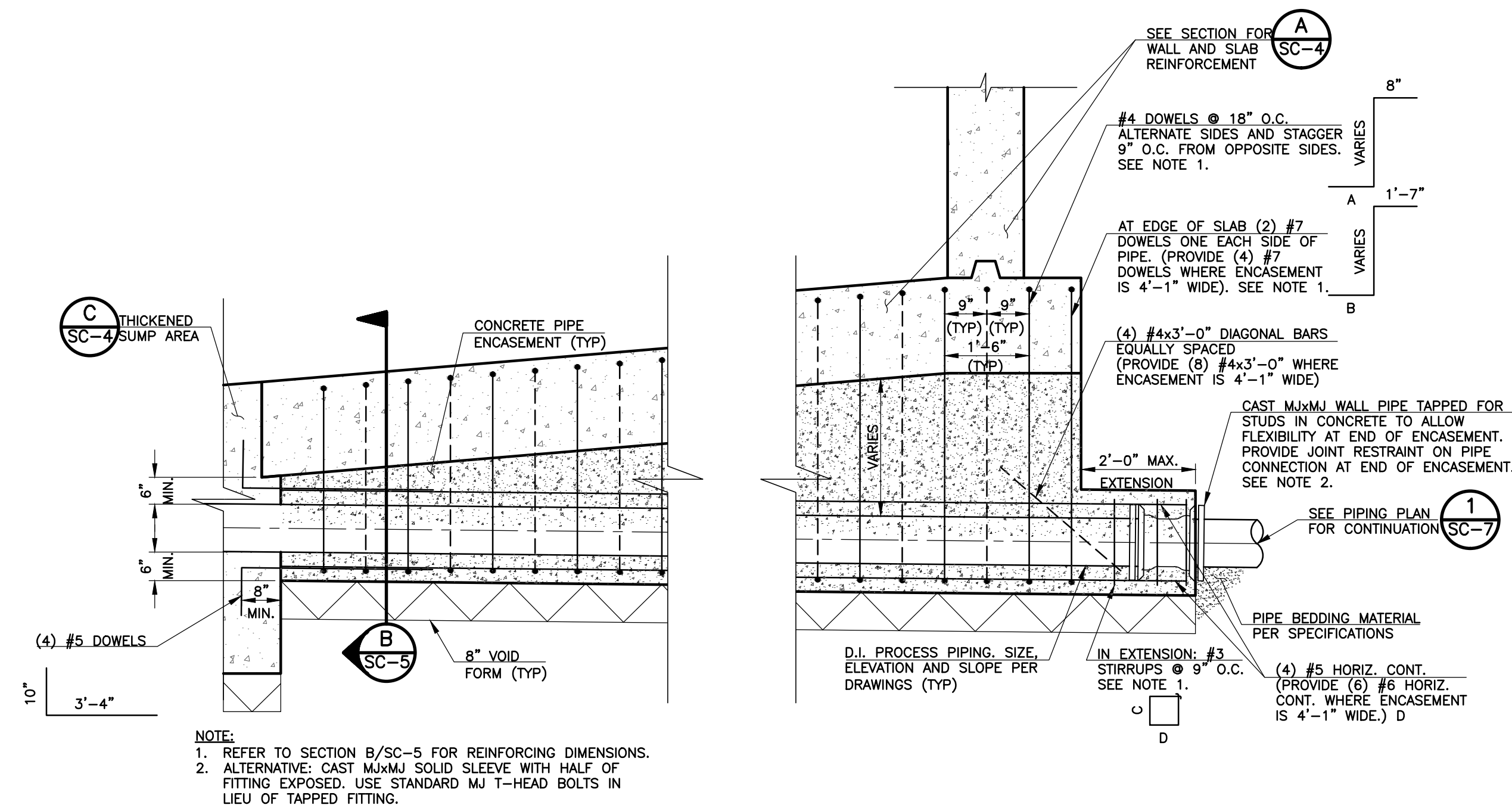
THIS DRAWING IS THE PROPERTY OF GMS, INC., AND IS NOT TO BE REPRODUCED, MODIFIED OR USED FOR ANY OTHER PROJECT OR EXTENSION OF THIS PROJECT EXCEPT BY AGREEMENT WITH THIS COMPANY.

STRUCTURAL SECTIONS AND DETAILS
HAROLD D. THOMPSON REGIONAL WATER RECLAMATION FACILITY
LOWER FOUNTAIN METROPOLITAN SEWAGE DISPOSAL DISTRICT

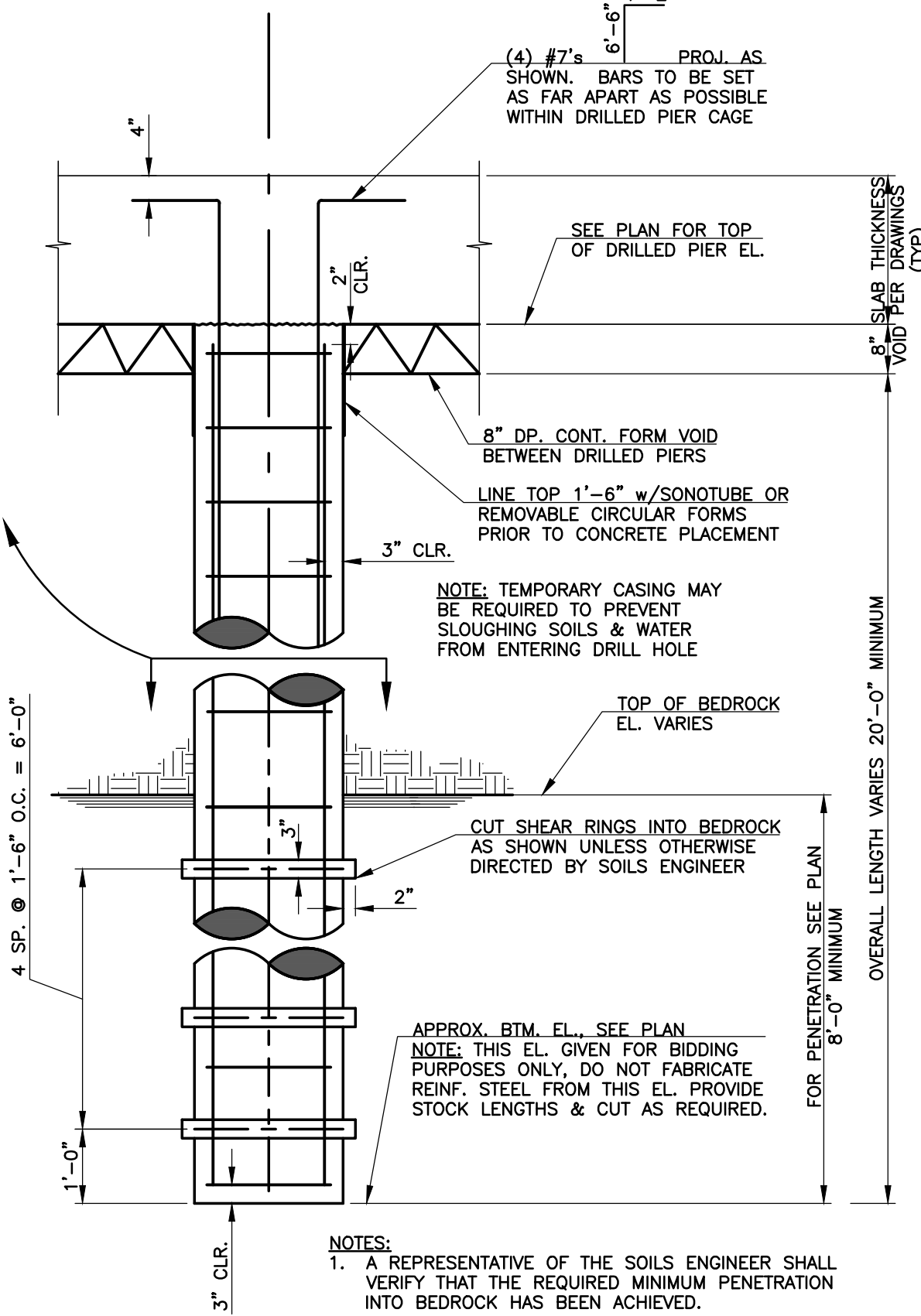
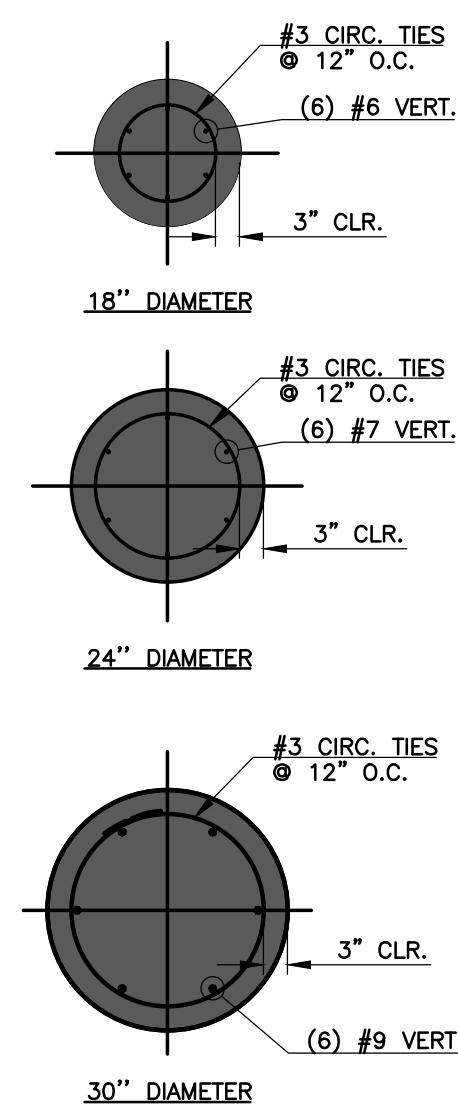
GMS, INC.
CONSULTING ENGINEERS
611 N. WEBER, SUITE 300
COLORADO SPRINGS, COLORADO 80903

DRAWN: MAM/SKC
DESIGNED: JP
CHECKED: MG
DATE: 2010
PROJECT NO.: 20166.362
GMS FILE NO.: 2599

SHEET **SC-4** OF -



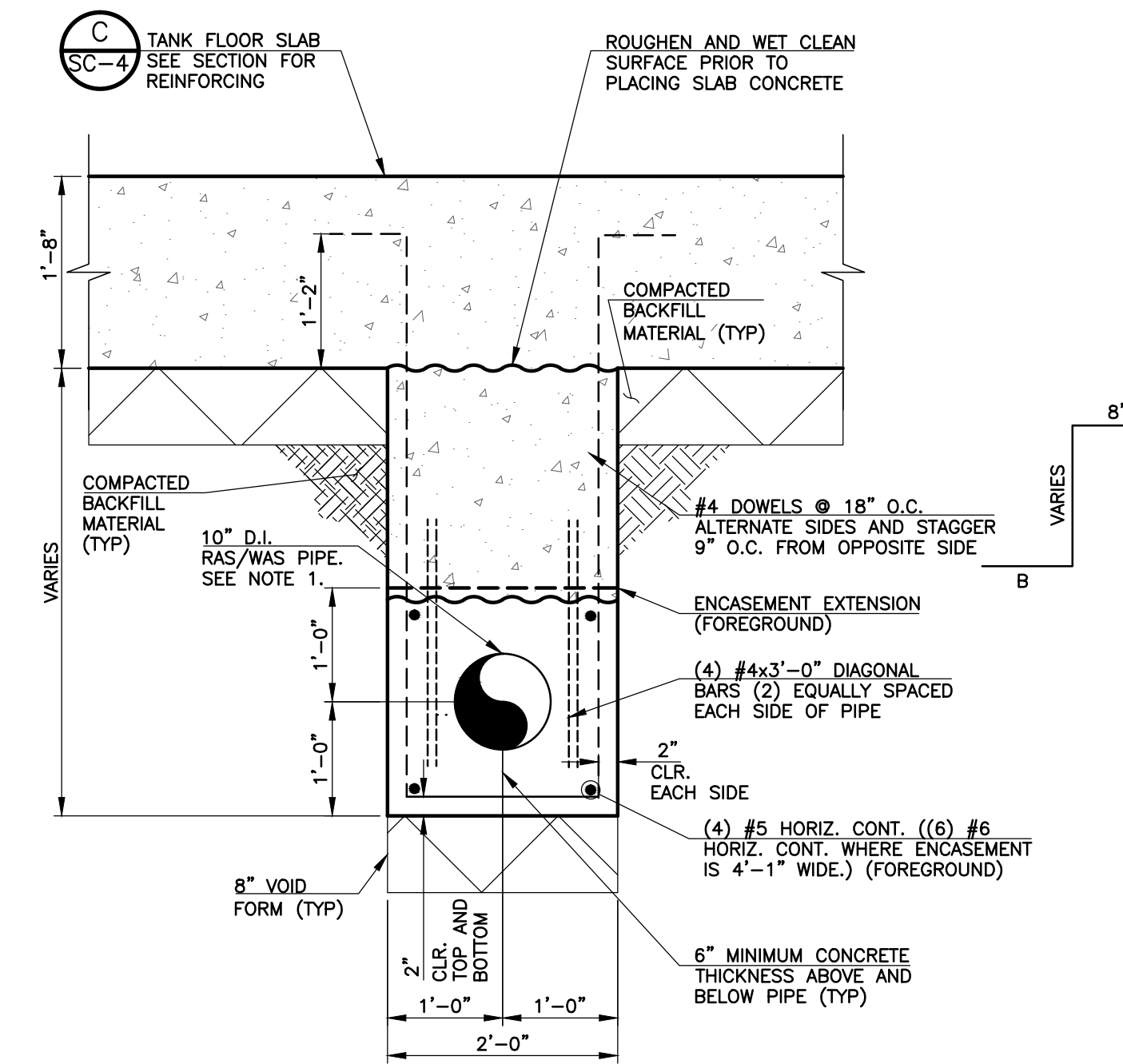
A CONCRETE ENCASEMENT DETAIL
SCALE: 1/2" = 1'-0"



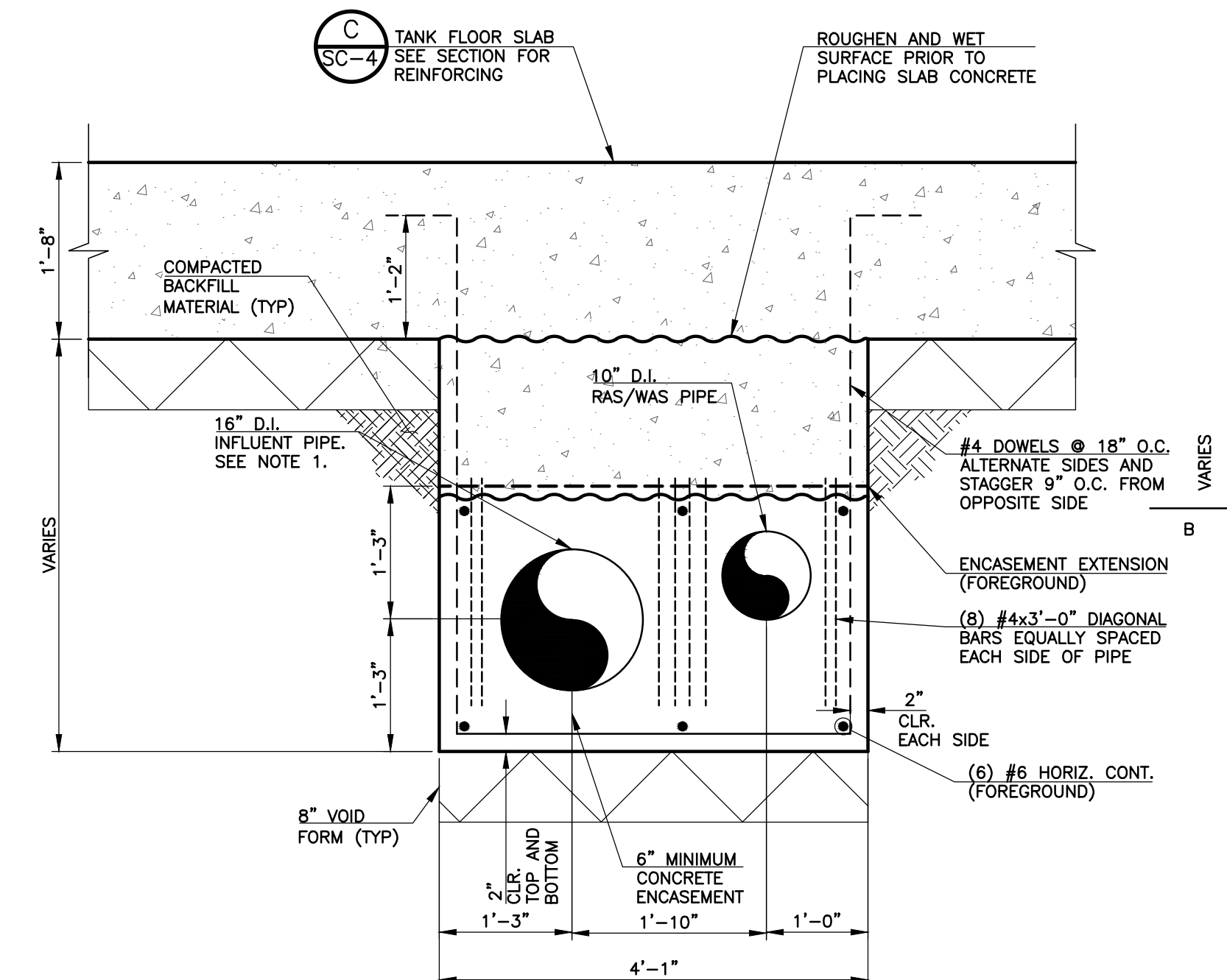
1 TYPICAL DRILLED PIER DETAIL
SCALE: NONE

DIMENSION TABLE FOR CONCRETE ENCASEMENT STEEL

	10" PIPE ONLY	16" AND 10" PIPES
A	18"	43"
B	18"	43"
C	20"	26"
D	18"	43"



B CONCRETE ENCASEMENT SECTION
SCALE: 3/4" = 1'-0"

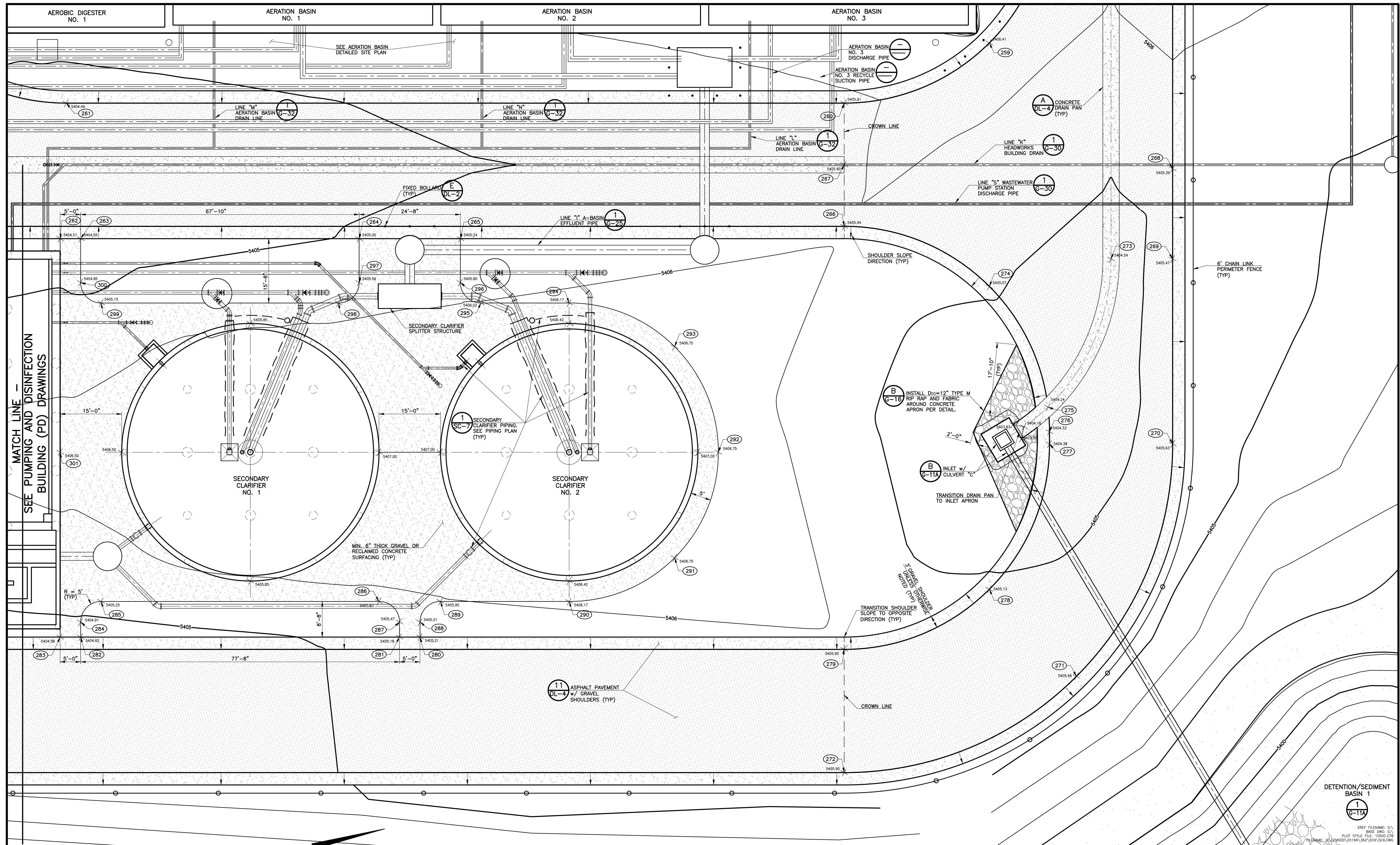


REVISIONS		
NO.	DATE	DESCRIPTION
1	03/30/2011	ISSUED FOR BUILDING PERMIT SUBMITTAL TO PPRBD (SECONDARY CLARIFIER COMPLEX)

THIS DRAWING IS THE PROPERTY OF GMS, INC., AND IS NOT TO BE REPRODUCED, MODIFIED OR USED FOR ANY OTHER PROJECT OR EXTENSION OF THIS PROJECT EXCEPT BY AGREEMENT WITH THIS COMPANY.

STRUCTURAL SECTIONS AND DETAILS
HAROLD D. THOMPSON REGIONAL WATER RECLAMATION FACILITY
LOWER FOUNTAIN METROPOLITAN SEWAGE DISPOSAL DISTRICT

DRAWN: MAM	GMS, INC. CONSULTING ENGINEERS 611 N. WEBER, SUITE 300 COLORADO SPRINGS, COLORADO 80903	SHEET SC-5 OF -
DESIGNED: JP		
CHECKED: MG		
DATE: 2010		
PROJECT NO. 20166.362	GMS FILE NO. 2599	



1 SECONDARY CLARIFIER DETAILED SITE PLAN
 SCALE: 1" = 10'

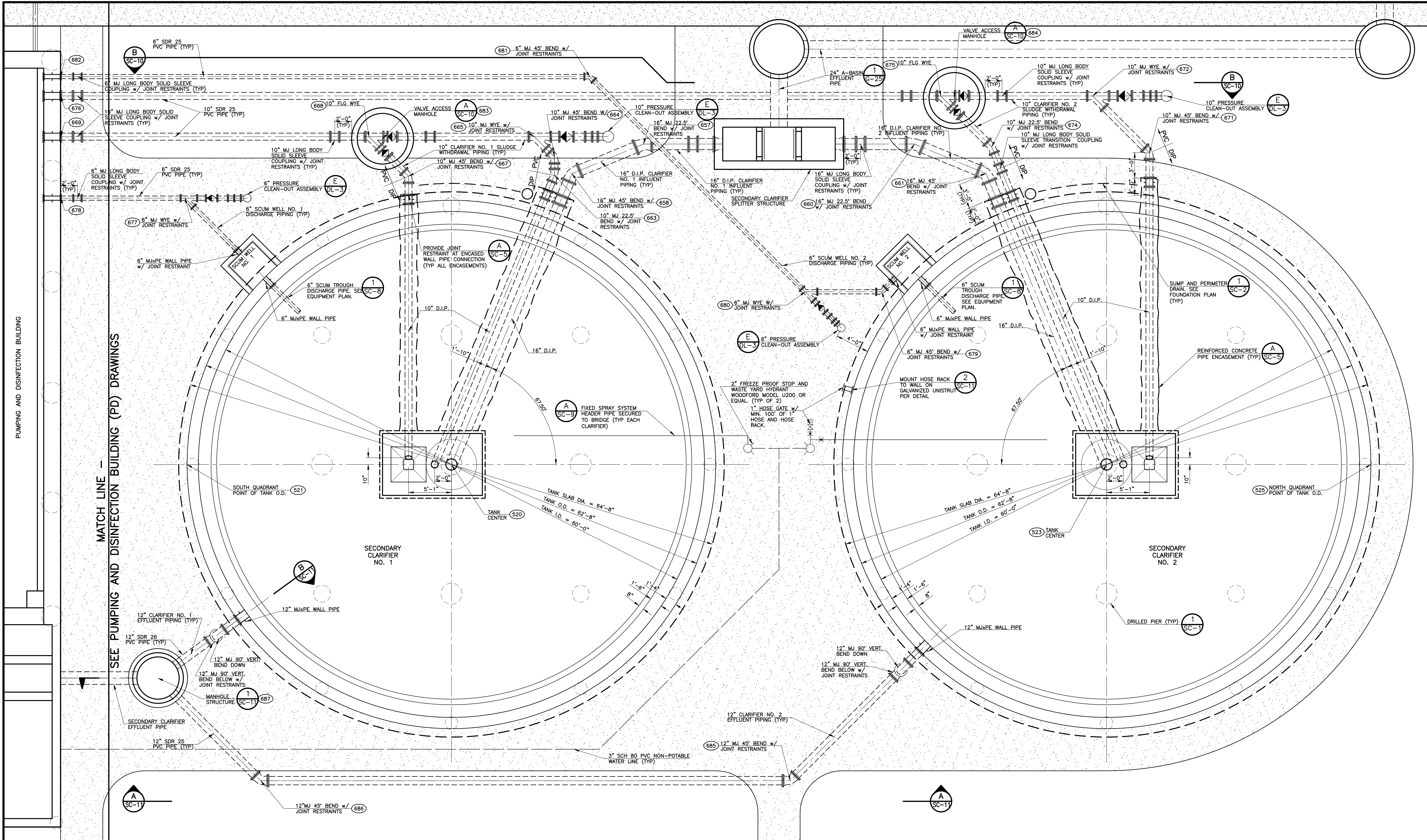
REVISIONS		
NO.	DATE	DESCRIPTION
1	03/30/2011	ISSUED FOR BUILDING PERMIT SUBMITTAL TO PRRBD (SECONDARY CLARIFIER COMPLEX)

THIS DRAWING IS THE PROPERTY OF GMS, INC., AND IS NOT TO BE REPRODUCED, MODIFIED OR USED FOR ANY OTHER PROJECT OR EXTENSION OF THIS PROJECT EXCEPT BY AGREEMENT WITH THIS COMPANY.

DETAILED SITE PLAN
 HAROLD D. THOMPSON REGIONAL WATER RECLAMATION FACILITY
 LOWER FOUNTAIN METROPOLITAN SEWAGE DISPOSAL DISTRICT

DRAWN: SKC	GMS, INC. CONSULTING ENGINEERS 611 N. WEBER, SUITE 300 COLORADO SPRINGS, COLORADO 80903	SHEET SC-6 OF -
DESIGNED: MAM		
CHECKED: RJS		
DATE: 2010		
PROJECT NO.: 20166.362	GMS FILE NO.: 2599	
GMS FILE NO.: 2599	XREF FILENAME: G:\BASE DWG G:\PLOT STYLE FILE: 1005C.DWG PLOT DATE: 03/30/2011 11:54:32 AM, PLOT BY: GMS	

G:\ANS\2010\1005C\SC6.dwg, SC6-4212011 11:54:32 AM, PLOT BY: GMS, PLOT DATE: 03/30/2011 11:54:32 AM, PLOT FILE: 1005C.DWG



MATCH LINE - SEE PUMPING AND DISINFECTION BUILDING (PD) DRAWINGS

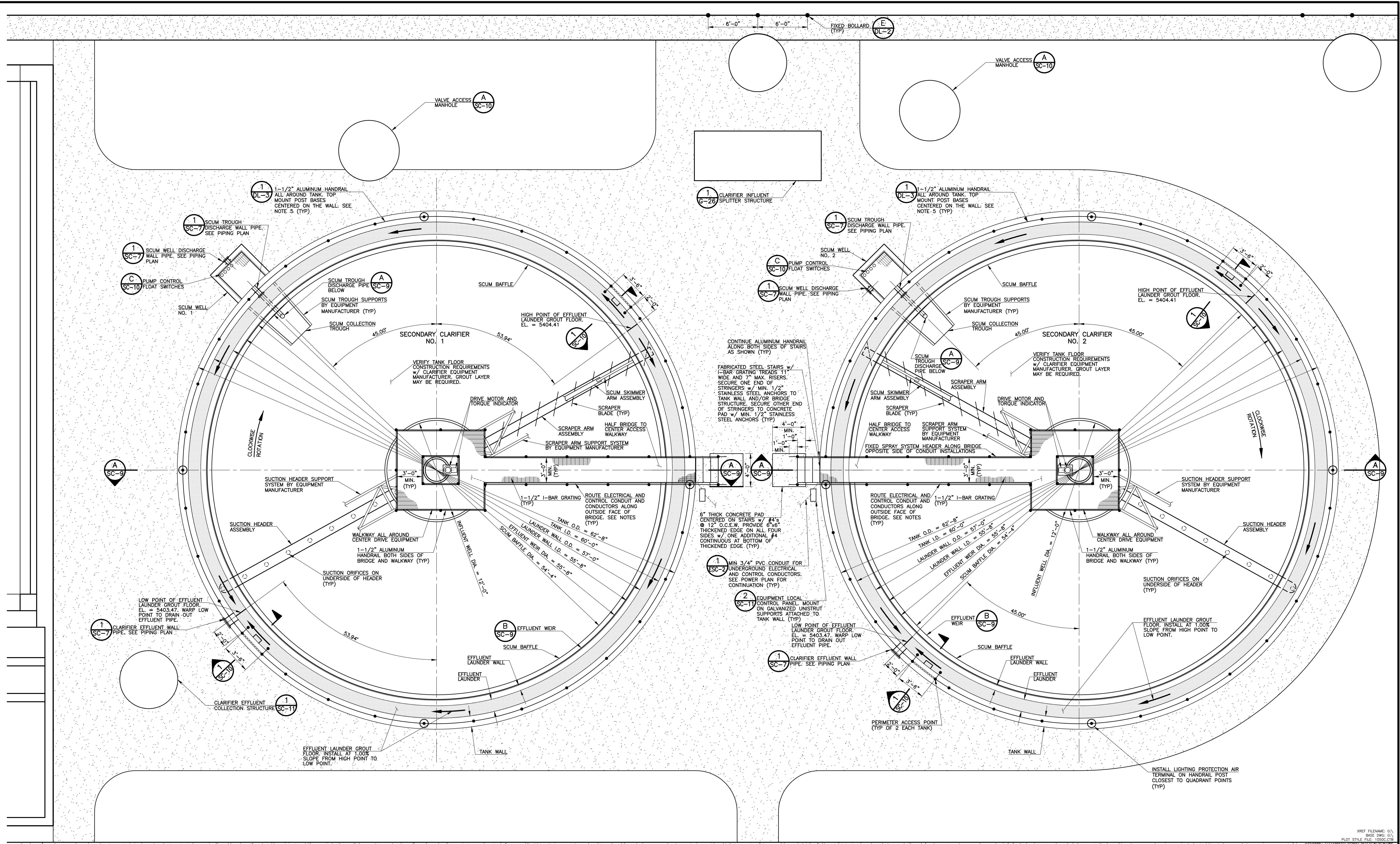
1 SECONDARY CLARIFIER PIPING PLAN
 SCALE: 1" = 5'

REVISIONS		
NO.	DATE	DESCRIPTION
1	03/30/2011	ISSUED FOR BUILDING PERMIT SUBMITTAL TO PRRBD (SECONDARY CLARIFIER COMPLEX)

THIS DRAWING IS THE PROPERTY OF GMS, INC., AND IS NOT TO BE REPRODUCED, MODIFIED OR USED FOR ANY OTHER PROJECT OR EXTENSION OF THIS PROJECT EXCEPT BY AGREEMENT WITH THIS COMPANY.

PROCESS PIPING PLAN	
HAROLD D. THOMPSON REGIONAL WATER RECLAMATION FACILITY LOWER FOUNTAIN METROPOLITAN SEWAGE DISPOSAL DISTRICT	
DRAWN: MAM/MAL	GMS, INC. CONSULTING ENGINEERS 611 N. WEBER, SUITE 300 COLORADO SPRINGS, COLORADO 80903
CHECKED: RJS	
DATE: 2010	
PROJECT NO.: 20166.362	
GMS FILE NO.: 2599	SHEET SC-7 OF -

XREF FILENAME: 03...
 BASE DWG: 0...
 PLOT STYLE FILE: 100000018
 FILENAME: G:\PLANS\20166\362\SC7.DWG



- NOTES:**
- POWER AND CONTROL CONDUCTORS SHALL BE ROUTED ALONG OUTSIDE FACE OF BRIDGE IN MINIMUM 3/4" GALVANIZED RIGID CONDUIT WHERE EXPOSED. SECURE CONDUIT TO BRIDGE STRUCTURE OR HANDRAILS AS NECESSARY.
 - PROVIDE FLEXIBLE CONDUIT TO ALL EQUIPMENT.
 - PROVIDE SEPARATE CONDUITS FOR POWER AND SIGNAL WIRES SO AS TO NOT INTERFERE WITH SIGNAL WIRE COMMUNICATION.
 - REFER TO THE ELECTRICAL DRAWINGS FOR DETAILED ELECTRICAL AND CONTROL WORK REQUIREMENTS.
 - HANDRAIL POST SPACING SHALL BE 6'-0" MAXIMUM. HANDRAIL BETWEEN POSTS MAY BE STRAIGHT ALIGNMENTS, CURVED HANDRAIL IS ACCEPTABLE BUT NOT REQUIRED.

1 SECONDARY CLARIFIER EQUIPMENT PLAN
SCALE: 1" = 5'

REVISIONS		
NO.	DATE	DESCRIPTION
1	10/18/2010	PRELIMINARY ISSUE FOR CONTRACTOR COST QUOTATIONS
2	03/30/2011	ISSUED FOR BUILDING PERMIT SUBMITTAL TO PPRBD (SECONDARY CLARIFIER COMPLEX)

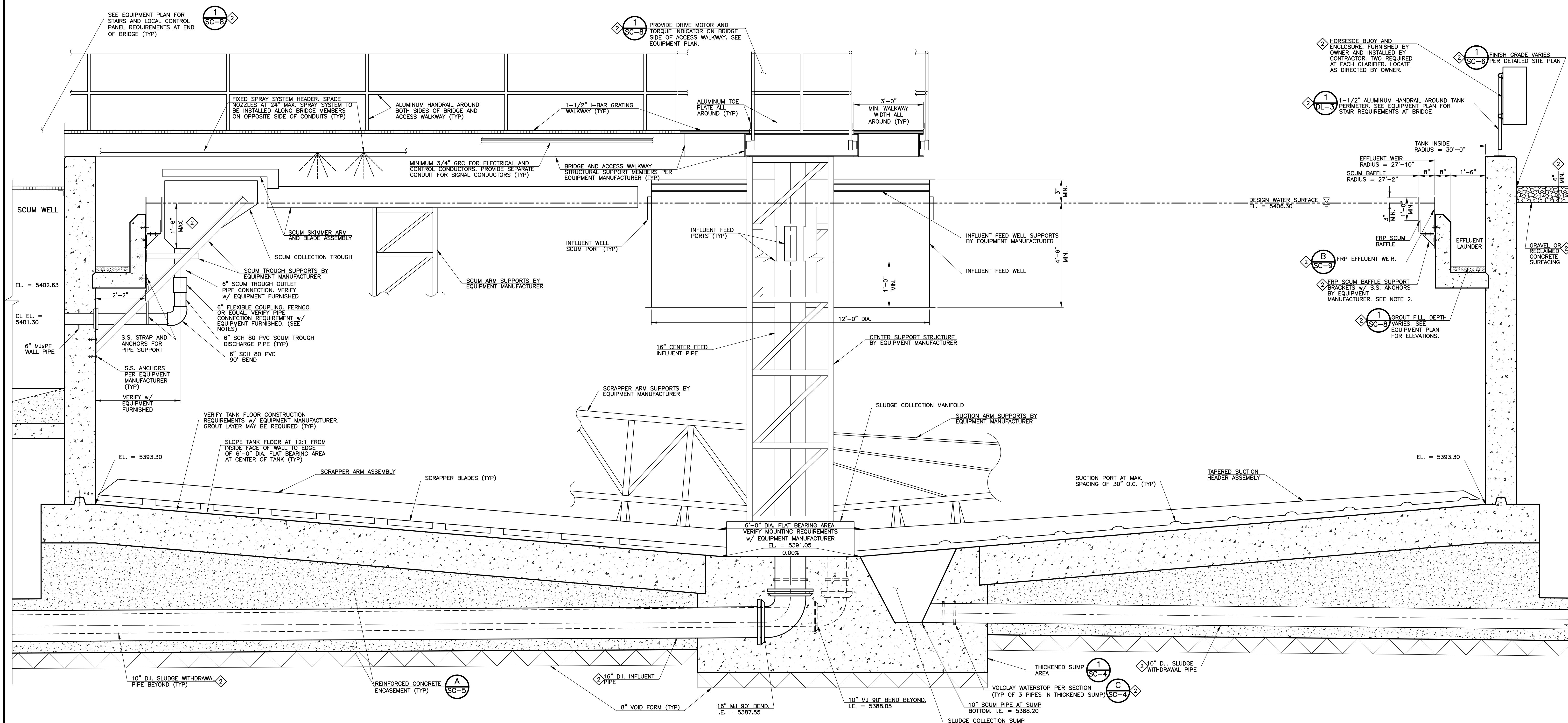
THIS DRAWING IS THE PROPERTY OF GMS, INC., AND IS NOT TO BE REPRODUCED, MODIFIED OR USED FOR ANY OTHER PROJECT OR EXTENSION OF THIS PROJECT EXCEPT BY AGREEMENT WITH THIS COMPANY.

PROCESS EQUIPMENT PLAN
HAROLD D. THOMPSON REGIONAL WATER RECLAMATION FACILITY
LOWER FOUNTAIN METROPOLITAN SEWAGE DISPOSAL DISTRICT

DRAWN: SKC	GMS, INC. CONSULTING ENGINEERS 611 N. WEBER, SUITE 300 COLORADO SPRINGS, COLORADO 80903	SHEET SC-8 OF -
DESIGNED: MAM		
CHECKED: RJS		
DATE: 2010		
PROJECT NO.: 20166.362		
GMS FILE NO.: 2599		

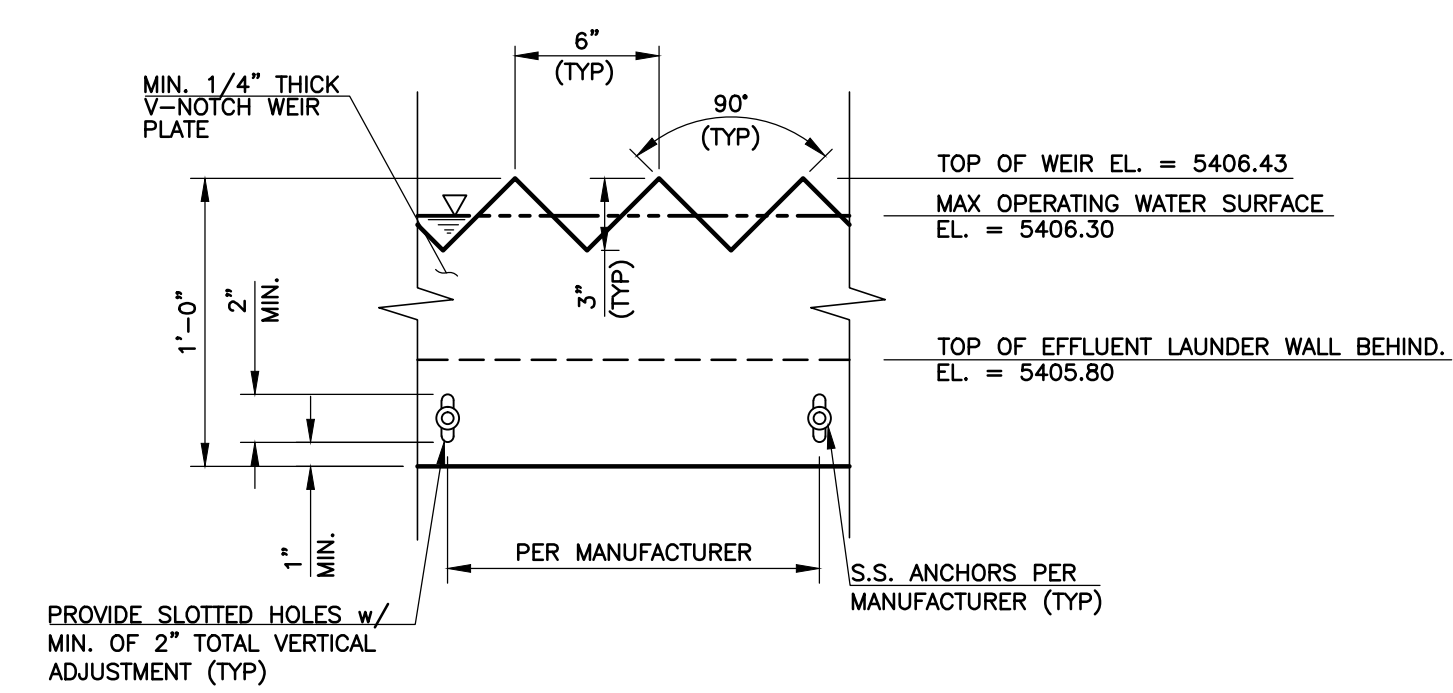
G:\UNSD\00196\SCS\SCS.dwg, SCL4212011.11:55:24AM, user: DWG TO PDF, job: 11

XREF FILENAME: G:\BASE DWG: G:\PLOT STYLE FILE: 1000.ctb



- NOTES:
1. THE MAJORITY OF THE EQUIPMENT AND PIPING OF THIS SECTION IS SHOWN OUT OF ORIENTATION FOR CLARITY. REFER TO THE EQUIPMENT PLAN FOR THE CORRECT ALIGNMENTS AND ORIENTATIONS OF EQUIPMENT AND PIPING FOR EACH SECONDARY CLARIFIER TANK.
 2. THE SCUM BAFFLE SUPPORT BRACKETS SHALL BE THE ANGLE BRACKET TYPE SIMILAR TO THE SCHEMATIC DEPICTION SHOWN ABOVE. TRIANGULAR BRACKETS WITH A HORIZONTAL MEMBER BETWEEN THE SCUM BAFFLE AND EFFLUENT WEIR ARE NOT ACCEPTABLE. THIS IS TO PROVIDE COMPATIBILITY WITH THE ADDITIVE ALTERNATE BRUSH SWEEP ALGAE CONTROL SYSTEM, SEE NOTE 3 FOR SYSTEM DETAILS.
 3. THE CONSTRUCTION AT THE CLARIFIER TANKS AND CONFIGURATION OF THEIR EQUIPMENT MUST BE COMPATIBLE WITH THE ADDITIVE ALTERNATE BRUSH SWEEP ALGAE CONTROL SYSTEM. THIS SYSTEM WILL CONSIST OF MULTIPLE BRUSH HANDS MOUNTED TO THE END OF THE CLARIFIER SCUM SKIMMER ARM ASSEMBLY. THE BRUSHES WILL CONTACT MULTIPLE SURFACES, CLEANING THOSE CONTACT SURFACES AS THE SCUM SKIMMER ARM ASSEMBLY ROTATES AROUND THE TANKS. THE BRUSH CONTACT SURFACES SHALL BE BOTH SIDES OF THE SCUM BAFFLE, BOTH SIDES OF THE EFFLUENT WEIR, BOTTOM OF THE EFFLUENT LAUNDER AND THE INSIDE FACE OF BOTH EFFLUENT LAUNDER WALLS INCLUDING THE TOP AND CHAMFERED SURFACE OF THE INTERIOR LAUNDER WALL JUST BEHIND THE EFFLUENT WEIR.
 4. REFER TO PROJECT MANUAL FOR FIXED SPRAY NOZZLE REQUIREMENTS.
 5. SCUM TROUGH OUTLET PIPE FLEXIBLE CONNECTION SHALL BE FERNOCO MODEL 1056 WITH STAINLESS STEEL SHEAR RING.

A SECONDARY CLARIFIER EQUIPMENT SECTION
 SCALE: 1/2" = 1'-0"



B EFFLUENT WEIR DETAIL
 SCALE: NONE

REVISIONS		
NO.	DATE	DESCRIPTION
1	10/18/2010	PRELIMINARY ISSUE FOR CONTRACTOR COST QUOTATIONS
2	03/30/2011	ISSUED FOR BUILDING PERMIT SUBMITTAL TO PPRBD (SECONDARY CLARIFIER COMPLEX)

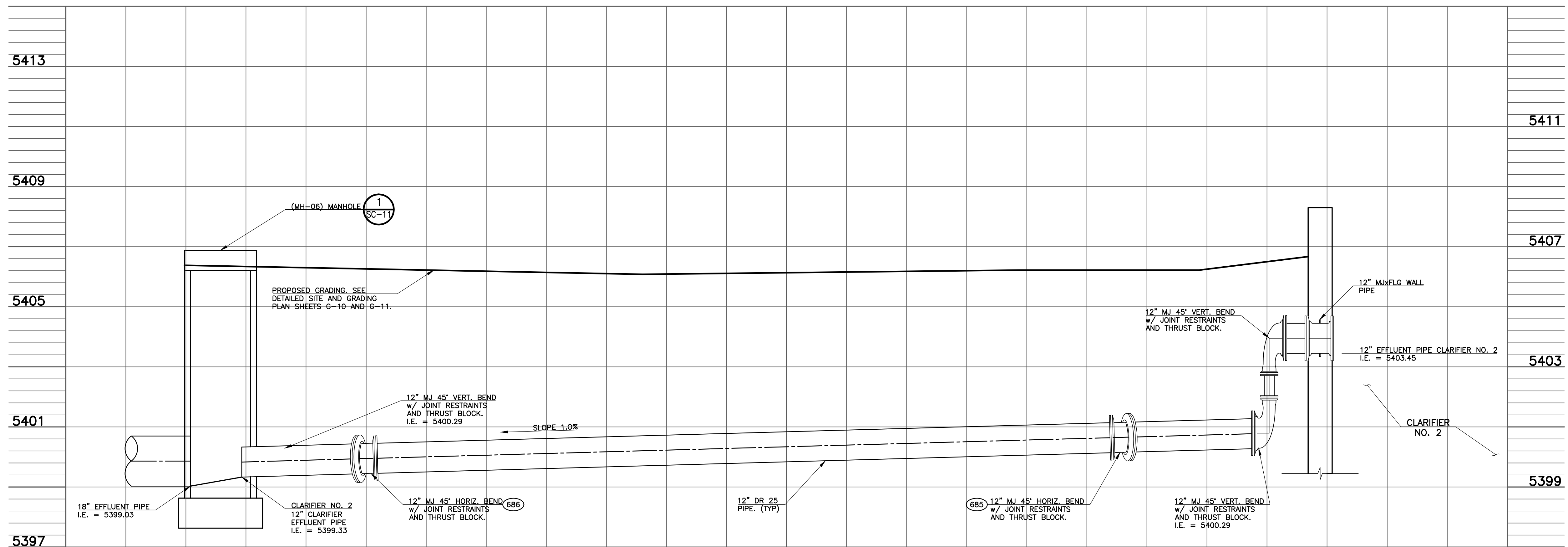
THIS DRAWING IS THE PROPERTY OF GMS, INC., AND IS NOT TO BE REPRODUCED, MODIFIED OR USED FOR ANY OTHER PROJECT OR EXTENSION OF THIS PROJECT EXCEPT BY AGREEMENT WITH THIS COMPANY.

PROCESS EQUIPMENT AND PIPING SECTION
 HAROLD D. THOMPSON REGIONAL WATER RECLAMATION FACILITY
 LOWER FOUNTAIN METROPOLITAN SEWAGE DISPOSAL DISTRICT

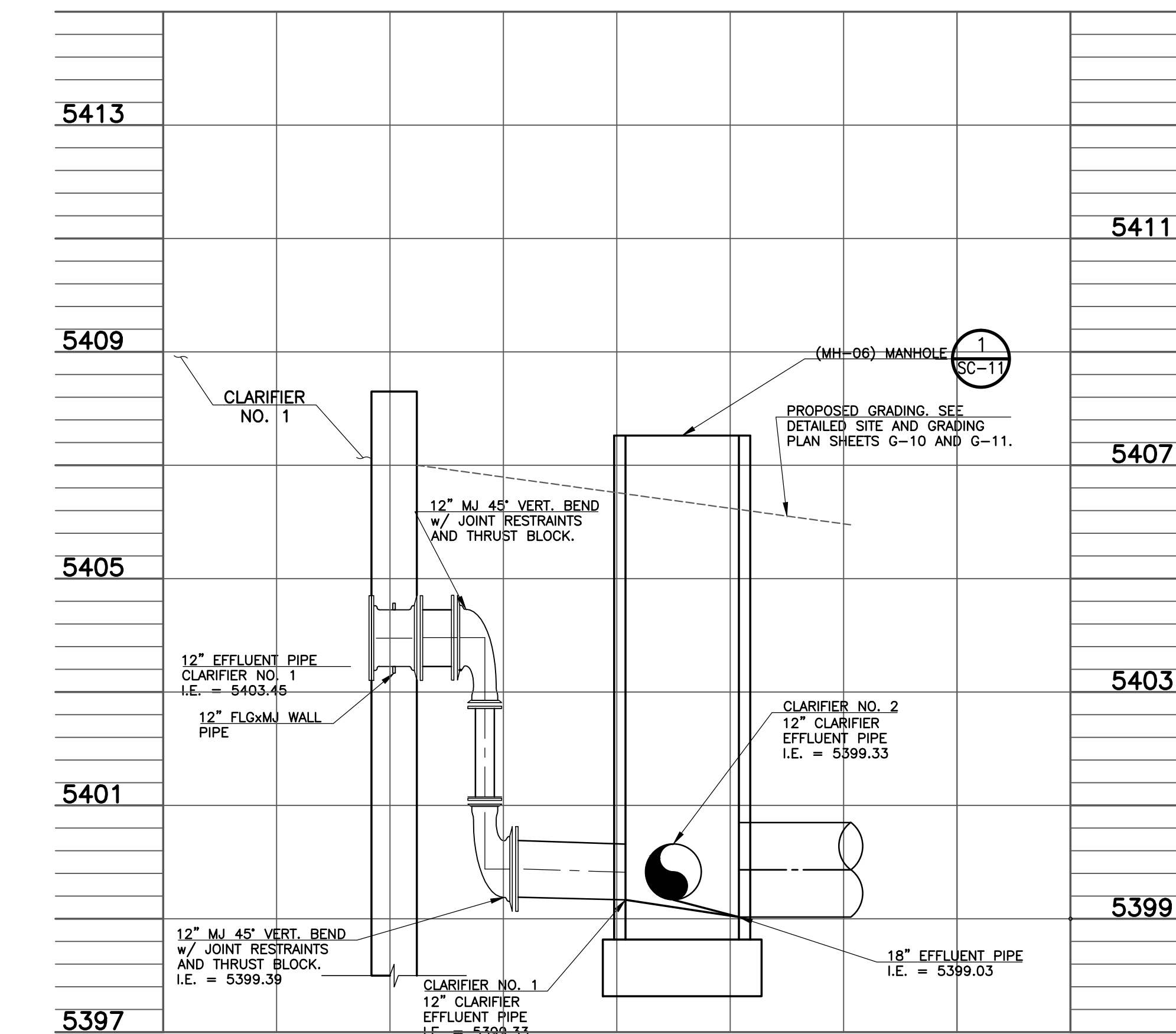
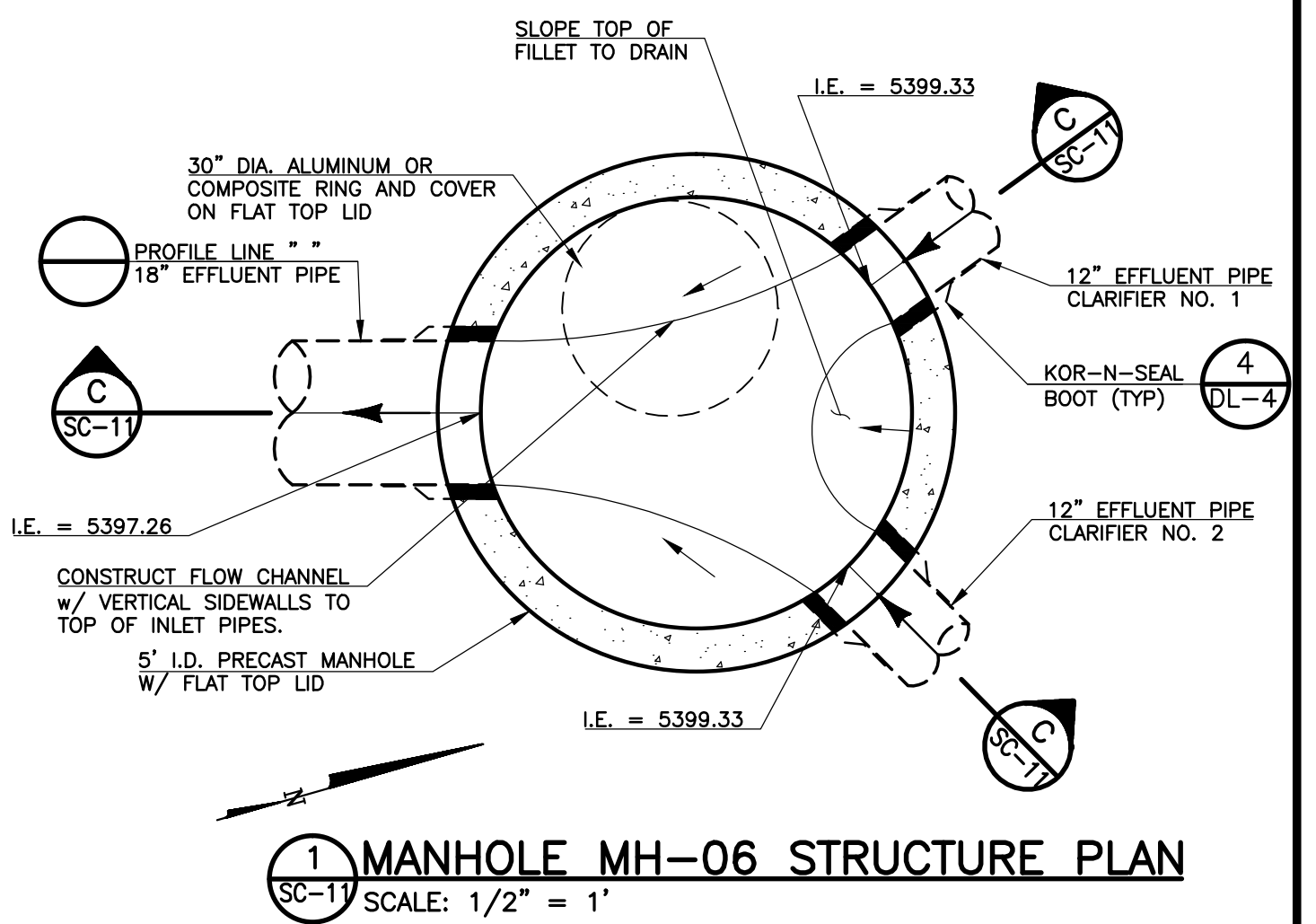
DRAWN: MAM DESIGNED: MAM CHECKED: RJS DATE: 2010 PROJECT NO.: 20166.362 GMS FILE NO.: 2599	GMS, INC. CONSULTING ENGINEERS 611 N. WEBER, SUITE 300 COLORADO SPRINGS, COLORADO 80903	SHEET SC-9 OF -
---	---	---------------------------------

G:\UNSD001\06\SCS\SCS9.dwg, SCA 4/21/2011 11:56:11 AM, user: DWG TO PDF, p01, 1:1

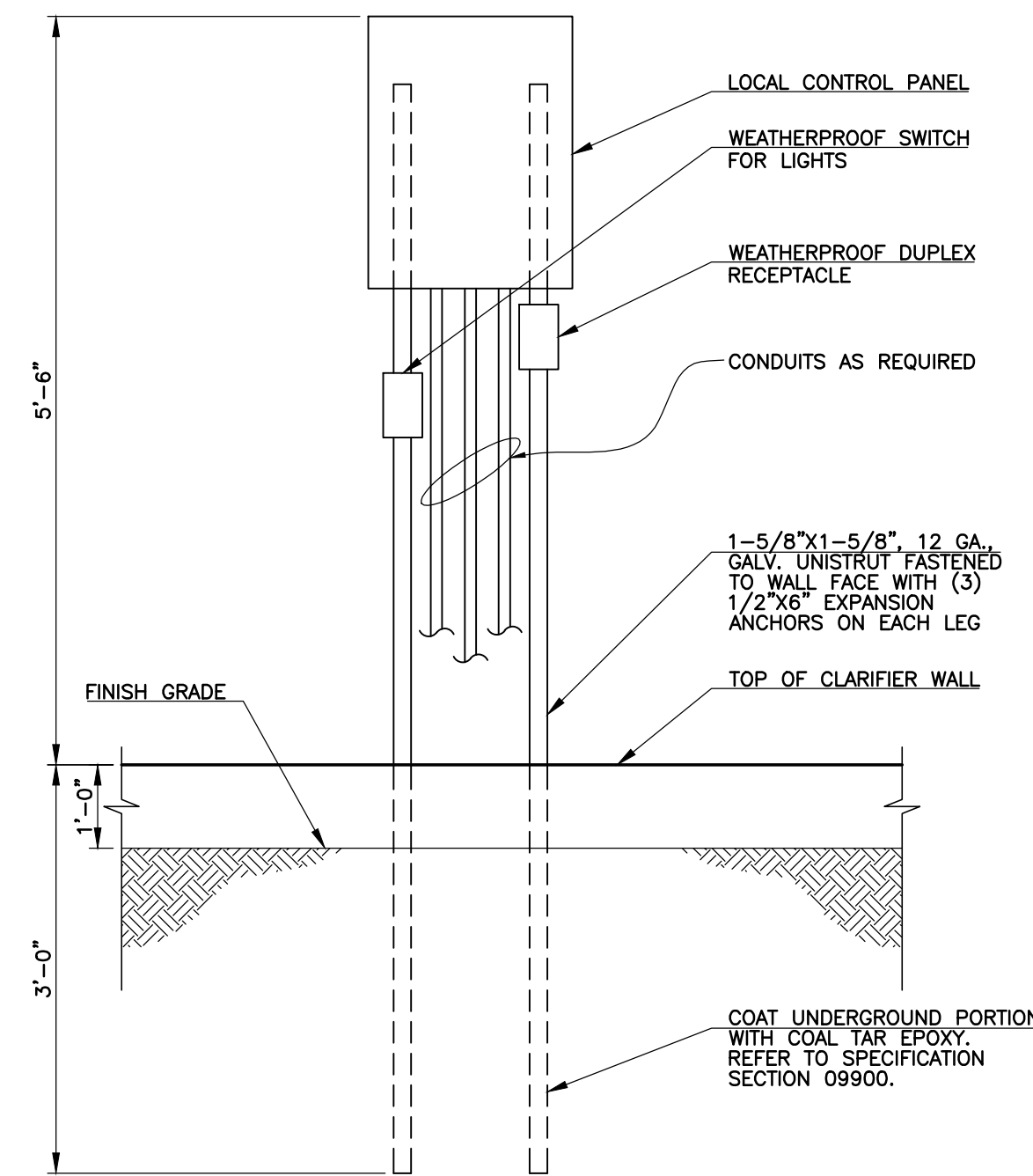
XREF FILENAME: G:\
 BASE DWG: G:\
 PLOT STYLE FILE: 1055.ctb
 FILENAME: G:\UNSD001\06\SCS\SCS9.dwg



A PIPING SECTION
 SC-11 SCALE: HORIZ. 1" = 5' VERT. 1" = 2'

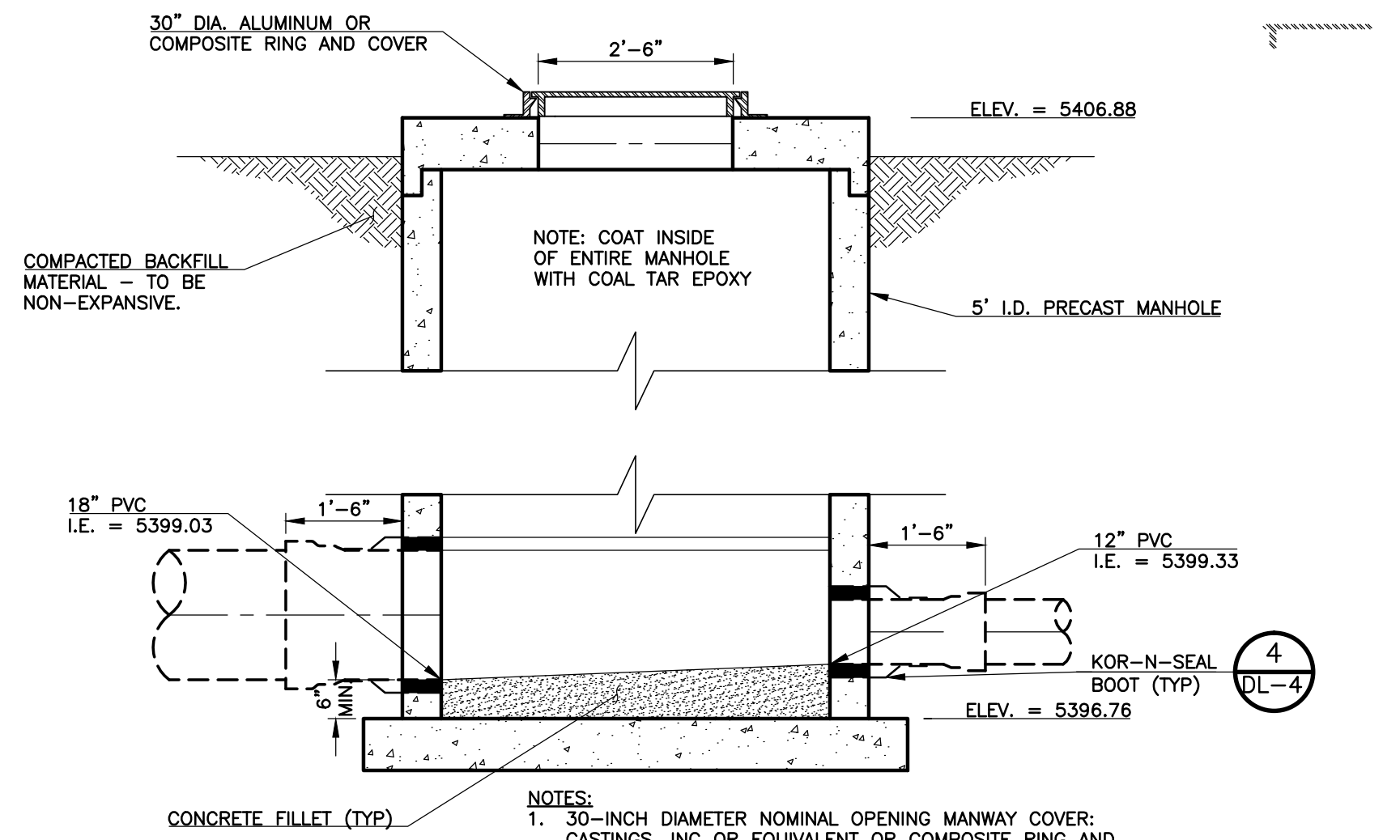


B PIPING SECTION
 SC-11 SCALE: HORIZ. 1" = 5' VERT. 1" = 2'



NOTES:
 1. ALL ELECTRIC EQUIPMENT AND APPURTENANCES SHALL BE INSTALLED IN ACCORDANCE WITH NEC.

2 CONTROL PANEL MOUNTING DETAIL
 SC-11 SCALE: 1/2" = 1'



C MANHOLE MH-06 STRUCTURE SECTION
 SC-11 SCALE: 1/2" = 1'

REVISIONS		
NO.	DATE	DESCRIPTION
1	03/30/2011	ISSUED FOR BUILDING PERMIT SUBMITAL TO PPRBD (SECONDARY CLARIFIER COMPLEX)

THIS DRAWING IS THE PROPERTY OF GMS, INC., AND IS NOT TO BE REPRODUCED, MODIFIED OR USED FOR ANY OTHER PROJECT OR EXTENSION OF THIS PROJECT EXCEPT BY AGREEMENT WITH THIS COMPANY.

SECTIONS AND DETAILS HAROLD D. THOMPSON REGIONAL WATER RECLAMATION FACILITY LOWER FOUNTAIN METROPOLITAN SEWAGE DISPOSAL DISTRICT		GMS, INC. CONSULTING ENGINEERS 611 N. WEBER, SUITE 300 COLORADO SPRINGS, COLORADO 80903	SHEET SC-11 OF -
DRAWN: MAL DESIGNED: MAM CHECKED: RJS DATE: 2010 PROJECT NO.: 20166.362 GMS FILE NO.: 2599	XREF FILENAME: G:\BASE DWG: G:\PLOT STYLE FILE: 1055C.DWG FILENAME: G:\P\FM500\20166\362\SC11\SC11.DWG		