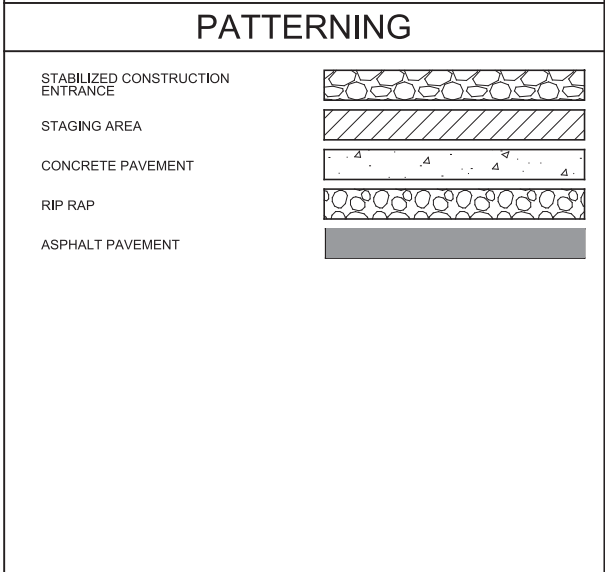
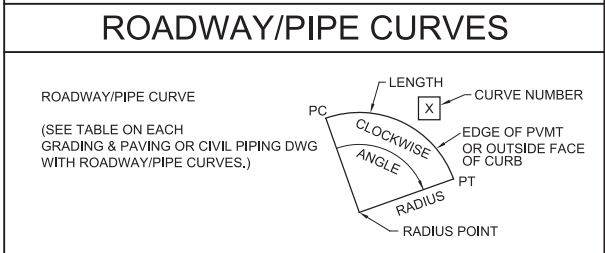
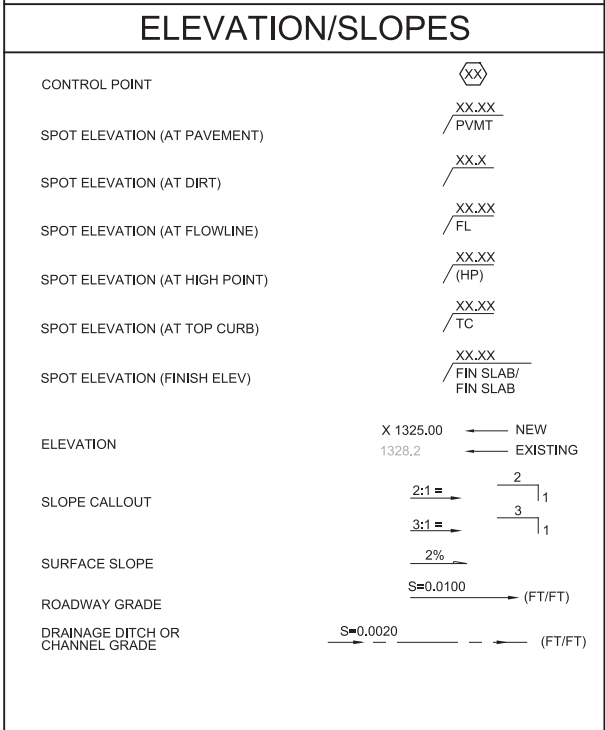
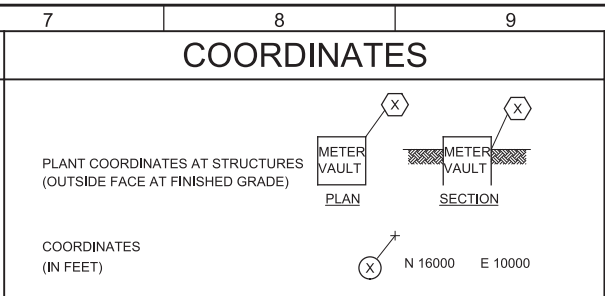


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 ColorTable: gshade.ctb
 LAST SAVED BY: idonnell

NOTES			
GENERAL PIPELINE NOTES			
1.	DIMENSIONS TO STRUCTURES, REFERENCED PIPING, PAVING, AND OTHER IMPROVEMENTS IS APPROXIMATE. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND CONDITIONS 14 DAYS IN ADVANCE OF THE CONSTRUCTION PROGRESS. THE CONTRACTOR SHALL REPORT ANY DISCREPANCIES TO THE ENGINEER.		
2.	CONTRACTOR SHALL MAINTAIN A MINIMUM CLEARANCE OF 10 FEET HORIZONTAL AND 3 FEET VERTICAL BETWEEN THE SEWER LINES AND EXISTING WATER LINES.		
3.	REFER TO THE GEOTECHNICAL REPORT LOCATED IN THE APPENDIX OF THE SPECIFICATIONS FOR ADDITIONAL INFORMATION ON THE GEOTECHNICAL CONDITIONS AND BORING INFORMATION.		
4.	IN ALL LOCATIONS WHERE TRENCH PLATE IS USED FOR VEHICULAR OR PEDESTRIAN TRAFFIC, THE CONTRACTOR SHALL APPLY SKID RESISTANT COATING ON THE TRENCH PLATES AND COLD MIX ASPHALT CONCRETE AT THE EDGES. THE TRENCH PLATES SHALL BE NOTCHED INTO THE ASPHALT, CONCRETE, OR TRAVELED SURFACE TO PREVENT SLIPPAGE AND ROCKING UNDER TRAFFIC.		
5.	THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL PROPERTIES ADJACENT TO THE WORK, THROUGHOUT THE CONSTRUCTION PERIOD.		
6.	ALL OPEN TRENCHES, WORK AREAS AND SHAFTS SHALL HAVE A SHORING SYSTEM IN ACCORDANCE WITH OSHA, STATE AND LOCAL REQUIREMENTS.		
7.	THE CONTRACTOR SHALL COMPLY WITH ALL FEDERAL, STATE, COUNTY, AND LOCAL LAWS AND ORDINANCES RELATING TO THE SAFETY AND CHARACTER OF WORK, EQUIPMENT AND PERSONNEL. THIS INCLUDES BUT IS NOT LIMITED TO SHEETING, SHORING, BRACING, VENTILATION, CONFORMANCE WITH TRAFFIC CONTROL AND MAINTENANCE OF BARRICADES AND WARNING DEVICES.		
8.	LAYOUT DRAWINGS ARE REQUIRED FOR PIPING INSTALLED.		
9.	ALL ROAD DITCHES, FENCE LINES, PASTURES AND SIMILAR AREAS SHALL BE RESTORED PER SPECIFICATION 02925.		
10.	CONTRACTOR SHALL TAKE ALL PRACTICAL PRECAUTIONS TO MINIMIZE DISTURBANCES TO STREAMS, VEGETATION, TREES AND CROP LANDS, WHEREVER PRACTICAL LEAVE EXISTING TREES AND VEGETATED AREAS UNDISTURBED.		
UTILITY NOTES			
1.	EXISTING UTILITIES IN THE PROJECT MAY BE IN A FRAGILE CONDITION. THE CONTRACTOR SHALL EXERCISE NECESSARY CAUTION WHEN WORKING NEAR EXISTING UTILITIES.		
2.	PLAN LOCATIONS AND ELEVATIONS OF EXISTING UTILITIES ARE BASED ON RECORD DRAWINGS, POT-HOLING AND SURVEY INFORMATION AND ARE CONSIDERED APPROXIMATE ONLY, WHERE NO ELEVATIONS ARE SHOWN, NO INFORMATION WAS AVAILABLE DURING THE DESIGN PERIOD.		
3.	SOME UTILITY SERVICES MAY NOT BE SHOWN ON THESE DRAWINGS. THE CONTRACTOR SHALL TAKE NECESSARY MEASURES TO LOCATE AND PROTECT SERVICE DURING CONSTRUCTION.		
4.	CONTRACTOR SHALL CALL BLUE STAKES PRIOR TO ANY EXCAVATION ACTIVITIES.		
5.	THE LOCATION, SIZE, AND MATERIALS OF EXISTING UNDERGROUND UTILITIES SHOWN ON THESE DRAWINGS ARE APPROXIMATE AND IS SHOWN FOR BIDDING PURPOSES. THE CONTRACTOR SHALL BE RESPONSIBLE TO LOCATE AND PROTECT EXISTING UTILITIES.		
EARTHWORK NOTES			
1.	CLEAR THE CONSTRUCTION AREA OF NATURAL OBSTRUCTIONS EXISTING FOUNDATIONS, BUILDINGS, FENCES, LUMBER, WALLS, STUMPS, BRUSH, WEEDS, RUBBISH, TREES, BOULDERS, AND ANY OTHER ITEMS WHICH INTERFERES WITH CONSTRUCTION OPERATIONS OR ARE DESIGNATED FOR REMOVAL.		
2.	GRUB OUT AND DISPOSE OF TREE TRUNKS AND ROOT MATERIAL BELOW THE GROUND SURFACE REMAINING AFTER CLEARING.		
3.	DISPOSE OF THE UNACCEPTABLE BACKFILL MATERIAL FROM THE CLEARING AND GRUBBING OPERATIONS AT NO ADDITIONAL COST TO THE OWNER.		
4.	STRIP AND STOCKPILE THE TOPSOIL. THE DEPTH OF STRIPPING SHALL BE ESTIMATED TO BE 8-INCHES BUT WILL BE DETERMINED IN THE FIELD AS SOIL CONDITIONS DICTATE.		
5.	REPLACE STOCKPILED SOIL AND RESTORE SITE AS SPECIFIED.		
6.	ROCK AND AGGREGATE STORAGE AREAS SHALL BE RESTORED BY EXCAVATING ANY SOILS CONTAINING ROCK OR AGGREGATE AND BACKFILLING WITH TOPSOIL. SOIL REMOVED MAY BE USED FOR TRENCH BACKFILL ABOVE THE PIPE ZONE AND 3 FEET BELOW FINISHED GRADE.		
7.	ALL STRUCTURES, ROADS, AND UTILITIES SHALL BE PROTECTED IN PLACE UNLESS INDICATED IN THE DRAWINGS.		
LANDSCAPING NOTES			
1.	OWNER WILL BE RESPONSIBLE FOR ALL IRRIGATION AND LANDSCAPING UPGRADES AFTER SUBSTANTIAL COMPLETION.		
2.	CONTRACTOR IS NOT TO DISTURB ANY LANDSCAPING OR IRRIGATION WITHIN THE LINES SHOWN ON DRAWING G-04, KEY NOTE 1.		
3.	CONTRACTOR TO COORDINATE WITH THE OWNER FOR REMOVING ANY IRRIGATION PIPING ON THE SITE DURING CONSTRUCTION.		
4.	CONTRACTOR TO SEED ANY DISTURBED GRASS DUE TO PIPE TRENCHING.		

LINE WORK	
NEW STRUCTURES	
EXISTING STRUCTURES (SCREENED)	
NEW PIPING (TRIPLE LINES)	
NEW PIPING (SINGLE LINE)	
EXISTING PIPING (TRIPLE LINES) (SCREENED)	
EXISTING PIPING (SINGLE LINE) (SCREENED)	
HIDDEN LINE	
CENTER, MONUMENT, OR SURVEY LINE	
GUARDRAIL	
EXISTING CONTOURS (SCREENED)	
NEW CONTOURS (MAJOR)	
NEW CONTOURS (MINOR)	
NEW FENCE	
EXISTING FENCE (SCREENED)	
REMOVE OR ABANDONED (CROSS HATCHING: FENCE SHOWN AS EXAMPLE)	
POWER POLE & LINE	
PROPERTY LINE OR RIGHT OF WAY	
EDGE OF PAVEMENT	
SLOPE	
NEW ROAD	
FUTURE ROAD	
EXISTING ROAD (SCREENED)	
CURB & GUTTER	
CURB	
ROAD CENTERLINE SWALE (3' WIDE)	
ROAD CROSS GUTTER (10' WIDE)	
FLOWLINE	
FUTURE IMPROVEMENTS	



SYMBOLS					
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	BENCH MARK		TRANSIT POINT		FLANGE
	VERTICAL CONTROL POINT		ANCHOR POINT		VALVE
	MONUMENT		PARSHALL FLUME		CLOSED VALVE
	SOIL BORING LOCATIONS		GUARD POST		VALVE W/ CONNECTION
	TEST BORING LOCATIONS		HEADWALL		CLOSED VALVE W/ CONNECTION
	PERCOLATION TEST LOCATIONS		ROCK WALL		OPERATOR/ OPERATOR CLOSED
	POTHOLE/ POTHOLE NUMBER		RIP RAP		VALVE W/ OPERATOR
	IRON PIN		SHRUB/HEDGE		CLOSED VALVE W/ OPERATOR
	IRON ROD		TREE		VALVE W/ OPERATOR AND CONNECTION
	DATUM POINT		SIGN/SIGN POST		CLOSED VALVE W/ OPERATOR AND CONNECTION
	LIGHT		LIGHT POLE		VALVE W/ TWO CONNECTIONS
	HIGH LIGHT POLE		TRAFFIC LIGHT POLE		CLOSED VALVE W/ OPERATOR AND TWO CONNECTIONS
	FLOW ARROW		TRAFFIC LIGHT POLE		GATE VALVE W/ BLIND FLANGE AND CONNECTION
	FLOW/SLOPE DIRECTION		SINGLE TRAFFIC LIGHT POLE		CHECK VALVE
	DIRECTION ARROW		GUYED LIGHT POLE		PLUG VALVE
	PROPERTY HOOK		UTILITY POLE		CLOSED PLUG VALVE
	MANHOLE (PLAN)		UTILITY POLE GUY WIRE		PIPE CAP OR CONNECTION
	MANHOLE (PROFILE)		POWER POLE		CAP OR TURN DOWN
	CURB MANHOLE		PA SPEAKER		CROSS
	CATCH BASIN (SQUARE)		2 WAY PA SPEAKER		REDUCER
	CATCH BASIN (ROUND)		3 WAY PA SPEAKER		REDUCER W/ CONNECTION
	DROP INLET		4 WAY PA SPEAKER		REDUCER W/ CONNECTION
	DROP MANHOLE		FIRE HYDRANT - 2 WAY		REDUCER FLANGED
	ELECTRICAL MANHOLE AND PULL BOX		FIRE HYDRANT - 3 WAY		REDUCER W/ FLANGE AND CONNECTION
	PULL BOX		YARD HYDRANT		REDUCER W/ TWO CONNECTIONS
	TELEPHONE PEDESTAL		CLEANOUT		FLANGED TEE
	CABLE TV		AIR RELEASE VALVE		TEE W/ CONNECTIONS
	X JUNCTION BOX		BLOW OFF VALVE		TEE W/ FLANGE AND CONNECTIONS
	/ JUNCTION BOX		HOSE BIBB		BURIED VALVE
	I JUNCTION BOX		SERVICE CONNECTION		GAS VALVE OPEN/CLOSED
	POWER TOWER		BURIED VALVE		GAS METER
	GATE		GAS METER		

*** ALL SYMBOLS SHOWN AS NEW. EXISTING SYMBOLS ARE SCREENED.

REV	DATE	BY	DESCRIPTION

DESIGNED RWB
DRAWN TSD
CHECKED LHA
DATE MARCH 2019

7495 South 1300 West
West Jordan, Utah 84084

SOUTH VALLEY WATER RECLAMATION FACILITY

PROJECT 5

CIVIL

GENERAL CIVIL NOTES AND SYMBOLS

VERIFY SCALES

BAR IS ONE INCH ON ORIGINAL DRAWING

0 1"

IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

JOB NO. 10548A.10

DRAWING NO. GC-01

SHEET NO. 12 OF 159

Plot Date: 27-FEB-2019 14:11:13 PM

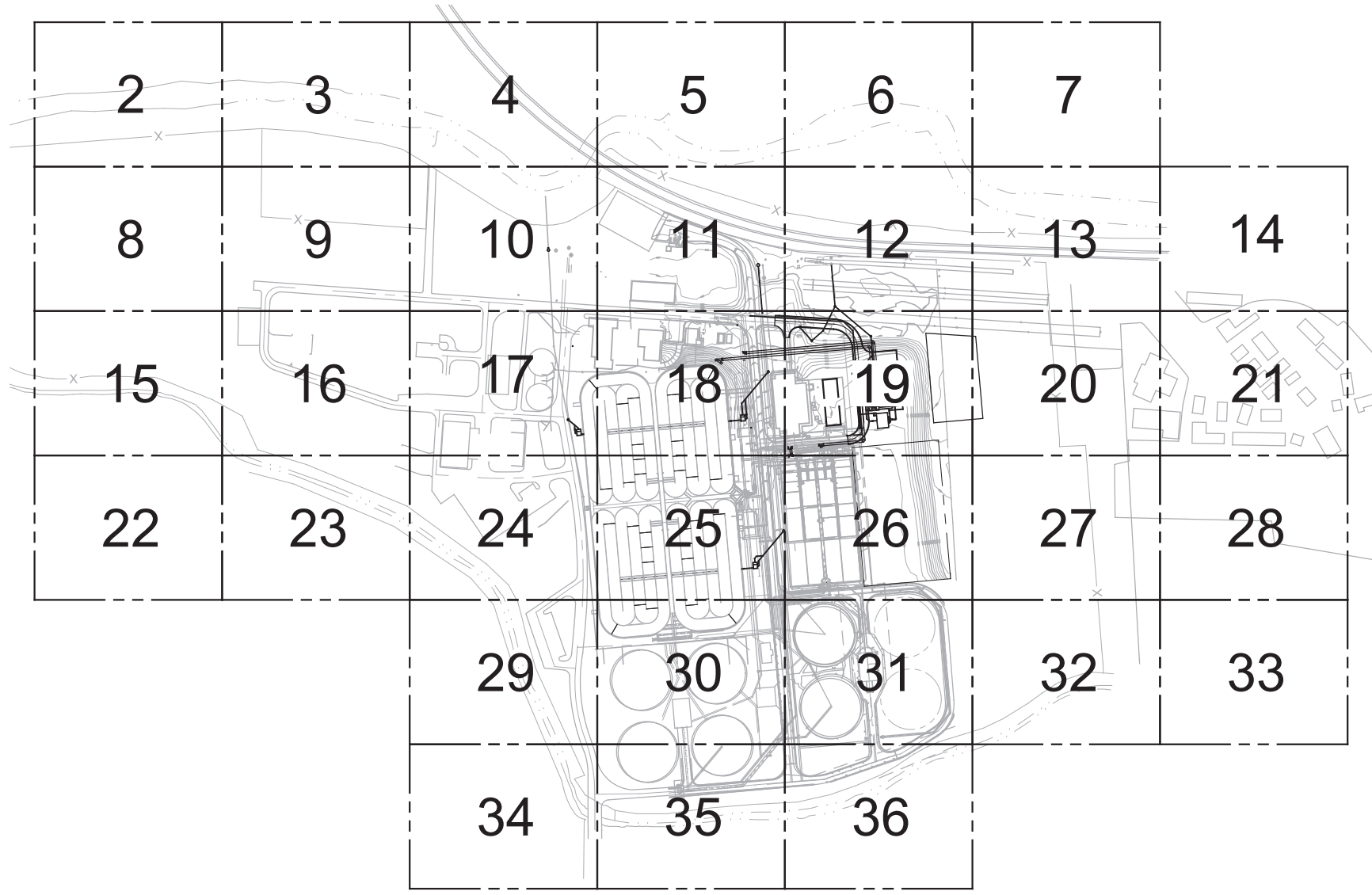
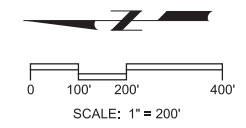
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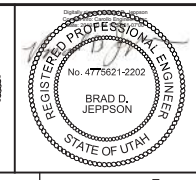
1 2 3 4 5 6 7 8 9 10 11 12 13



AREA	PAVING AND GRADING SHEET	YARD PIPING SHEET
11	N/A	GC-YP-11
12	GC-SC-12	GC-YP-12
17	N/A	GC-YP-17
18	GC-SC-18	GC-YP-18
19	GC-SC-19	GC-YP-19
25	N/A	GC-YP-25
26	N/A	GC-YP-26

REV	DATE	BY	DESCRIPTION

DESIGNED
RWB
DRAWN
TSD
CHECKED
LHA
DATE
MARCH 2019



SV South Valley
WATER RECLAMATION FACILITY
7495 South 1300 West
West Jordan, Utah 84084

SOUTH VALLEY WATER RECLAMATION FACILITY
PROJECT 5
CIVIL
KEY PLAN

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

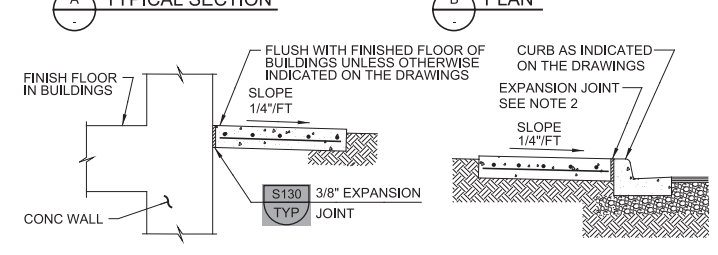
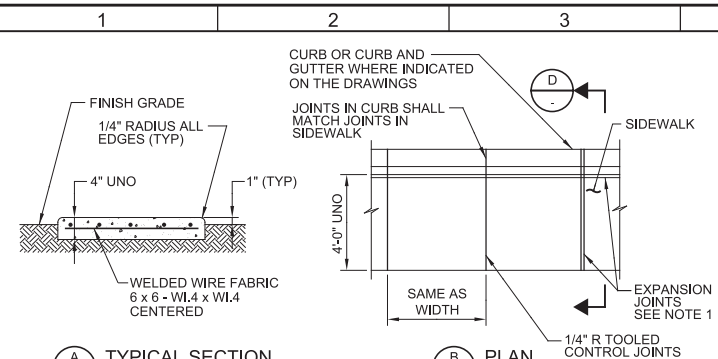
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10548A.10
DRAWING NO.
GC-02
SHEET NO.
13 OF 159

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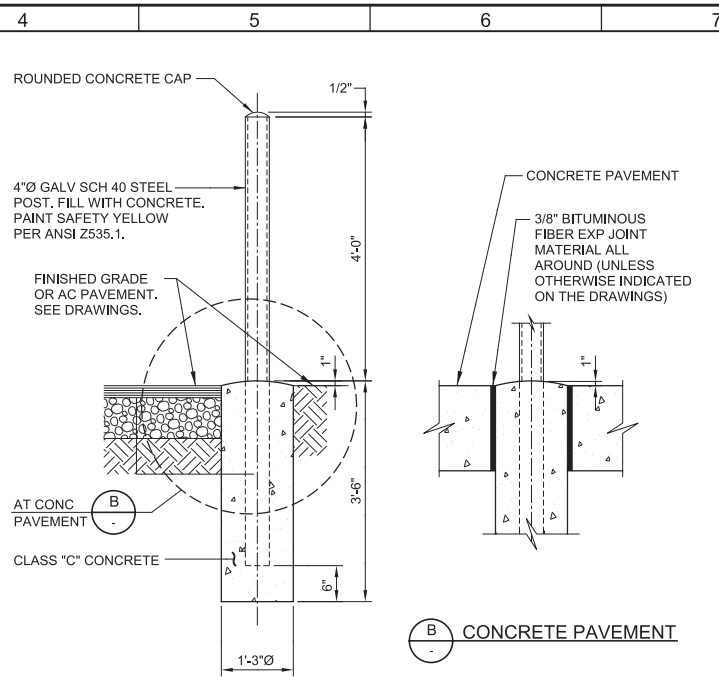
LAST SAVED BY: idonnell



- NOTES:
1. PROVIDE 3/4" EXPANSION JOINTS AT ENDS OF CONCRETE PLACEMENT, AT POINTS OF CURVATURE, AT BOTH SIDES OF DRIVEWAYS, AT INTERSECTIONS, AT STRUCTURES, AND AT MAXIMUM SPACING OF 30 FEET. EXPANSION JOINTS SHALL BE 3/4" WIDE WITH 1/4" RADIUS CONCRETE EDGES AT EACH SIDE OF JOINT. USE BITUMINOUS FIBER EXPANSION JOINT MATERIAL.
 2. EXPANSION JOINT: 3/8" WIDE WITH 1/4" RADIUS CONCRETE EDGES EACH SIDE. USE BITUMINOUS FIBER EXPANSION JOINT MATERIAL.
 3. PROVIDE WEAKENED PLANE JOINTS AT 10 FEET OC MAXIMUM, AT FRONT, TOP AND BACK FACES. PROVIDE 1/2" RADIUS EDGE EACH SIDE AT JOINTS.
 4. ELEVATIONS AS INDICATED ON THE DRAWINGS.

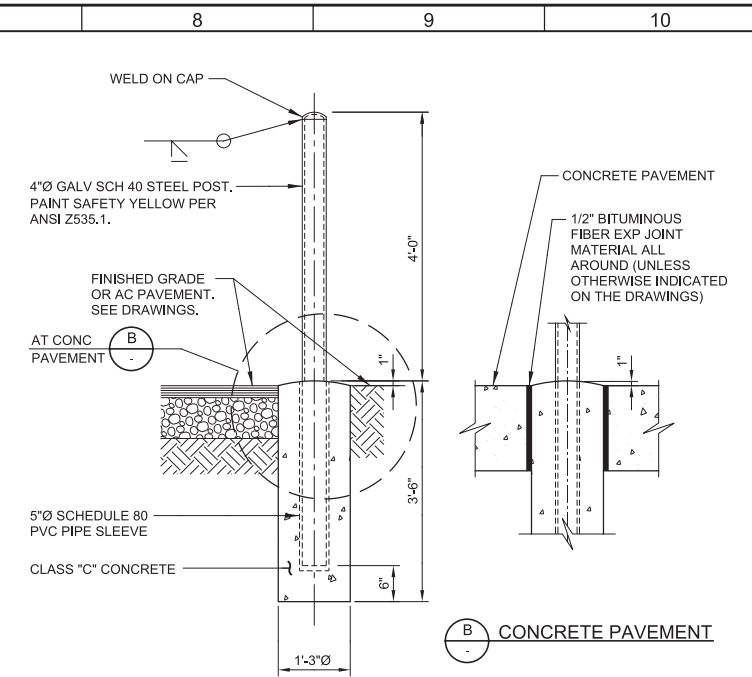
C120 SIDEWALK
TYP

07/25/13



C160 GUARD POST
TYP

01/13/14

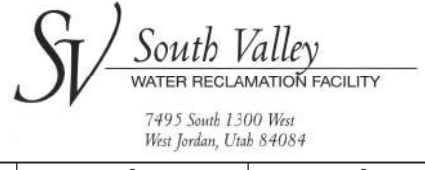
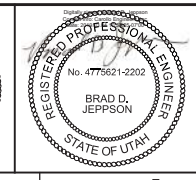


C161 REMOVABLE GUARD POST
TYP

01/13/14

REV	DATE	BY	DESCRIPTION

DESIGNED	RWB
DRAWN	TSD
CHECKED	LHA
DATE	MARCH 2019



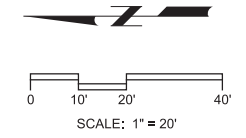
SOUTH VALLEY WATER RECLAMATION FACILITY
PROJECT 5
 TYPICAL DETAILS
CIVIL TYPICAL DETAILS 2

VERIFY SCALES
 BAR IS ONE INCH ON ORIGINAL DRAWING
 0 1"
 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

JOB NO. 10548A.10
 DRAWING NO. GC-04
 SHEET NO. 15 OF 159

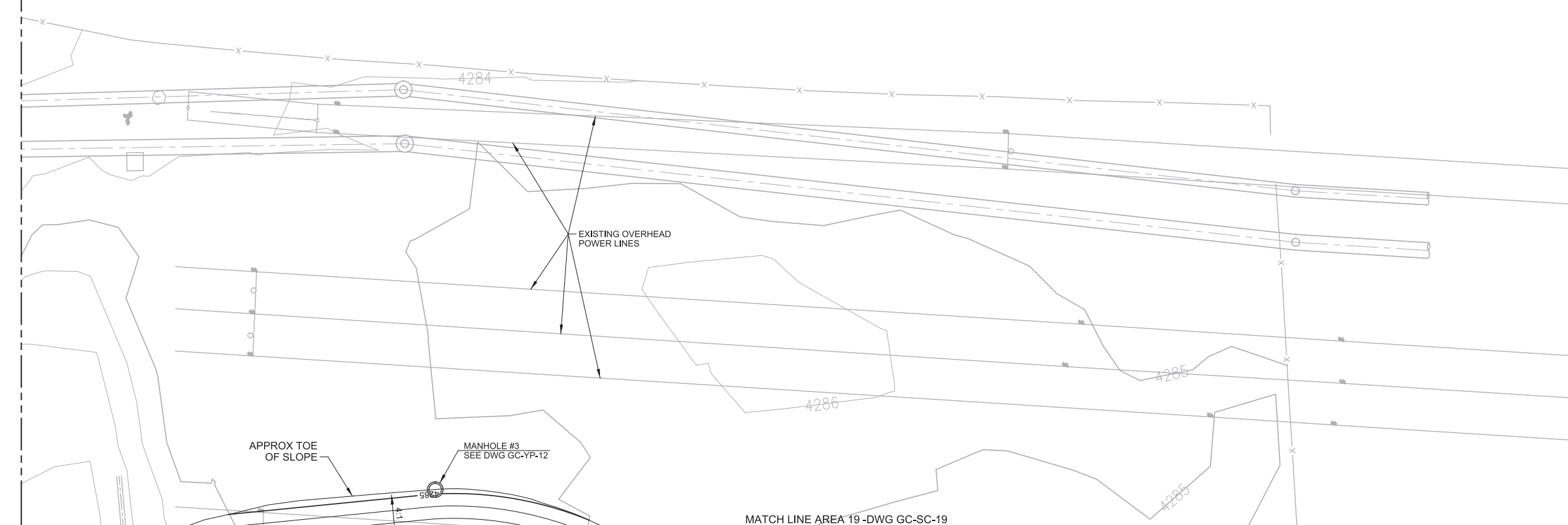
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DRAWING EXTENTS



DRAWING EXTENTS

DRAWING EXTENTS



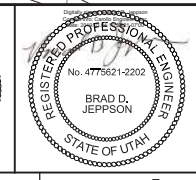
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16	17	18	19
23	24	25	26
	29	30	31

KEY MAP

MATCH LINE AREA 19 -DWG GC-SC-19

REV	DATE	BY	DESCRIPTION

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 DRAWN
 TSD
 CHECKED
 LHA
 DATE
 MARCH 2019



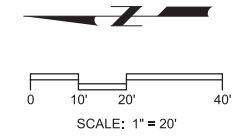
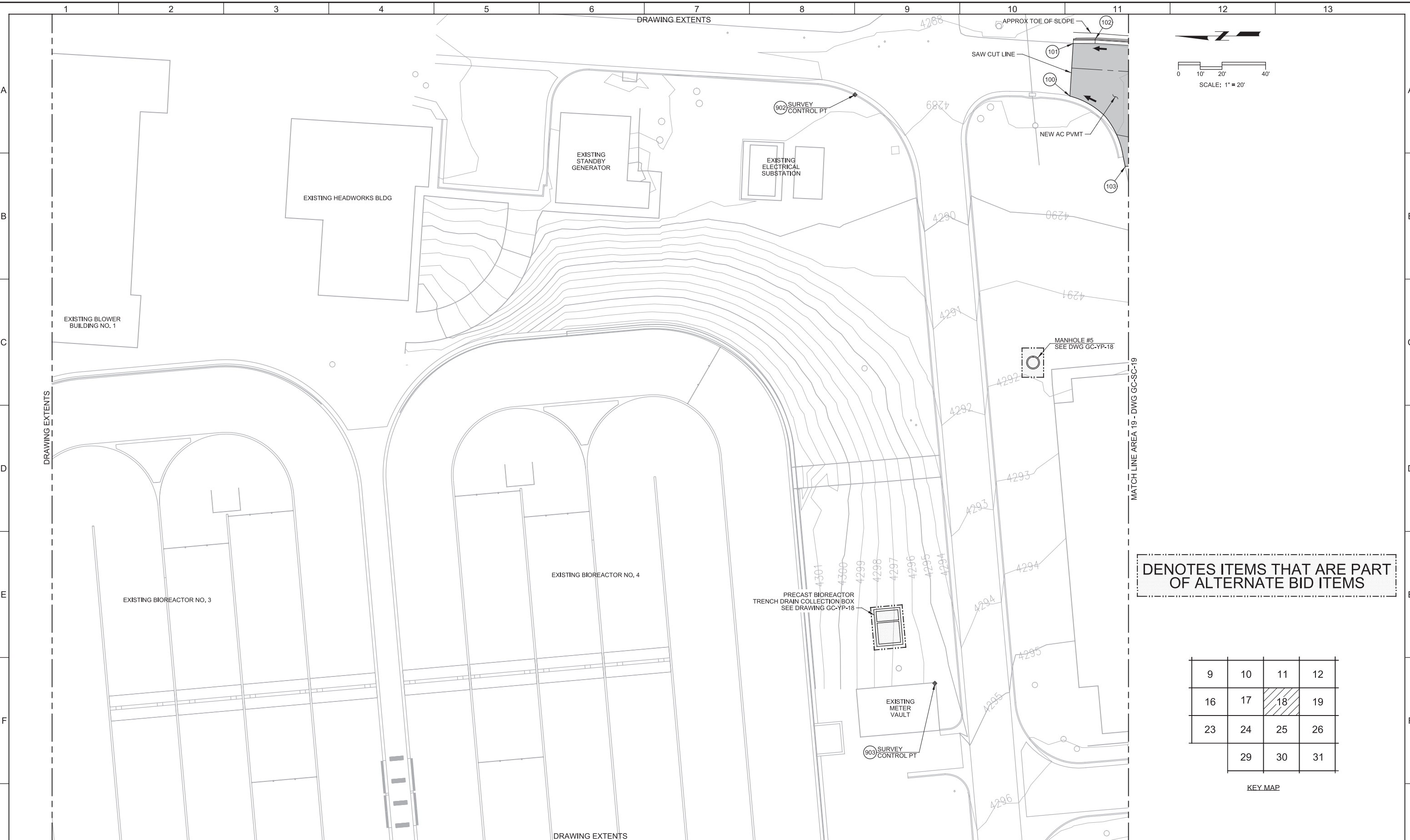
SV South Valley
 WATER RECLAMATION FACILITY
 7495 South 1300 West
 West Jordan, Utah 84084

SOUTH VALLEY WATER RECLAMATION FACILITY
 PROJECT 5
 CIVIL
PAVING AND GRADING PLAN
 AREA 12

VERIFY SCALES
 BAR IS ONE INCH ON ORIGINAL DRAWING
 0 1"

JOB NO.
 10548A.10
 DRAWING NO.
GC-SC-12
 SHEET NO.
 16 OF 159

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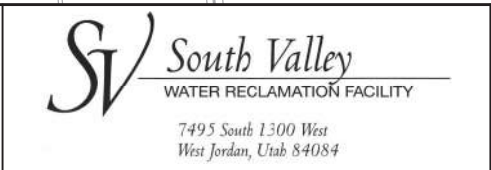
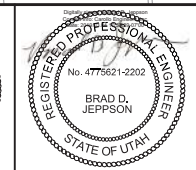
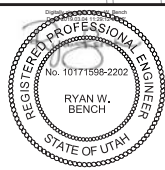
DENOTES ITEMS THAT ARE PART OF ALTERNATE BID ITEMS

9	10	11	12
16	17	18	19
23	24	25	26
	29	30	31

KEY MAP

REV	DATE	BY	DESCRIPTION

DESIGNED
 RWB
 DRAWN
 TSD
 CHECKED
 LHA
 DATE
 MARCH 2019

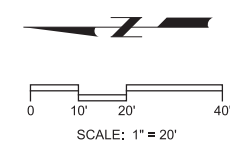
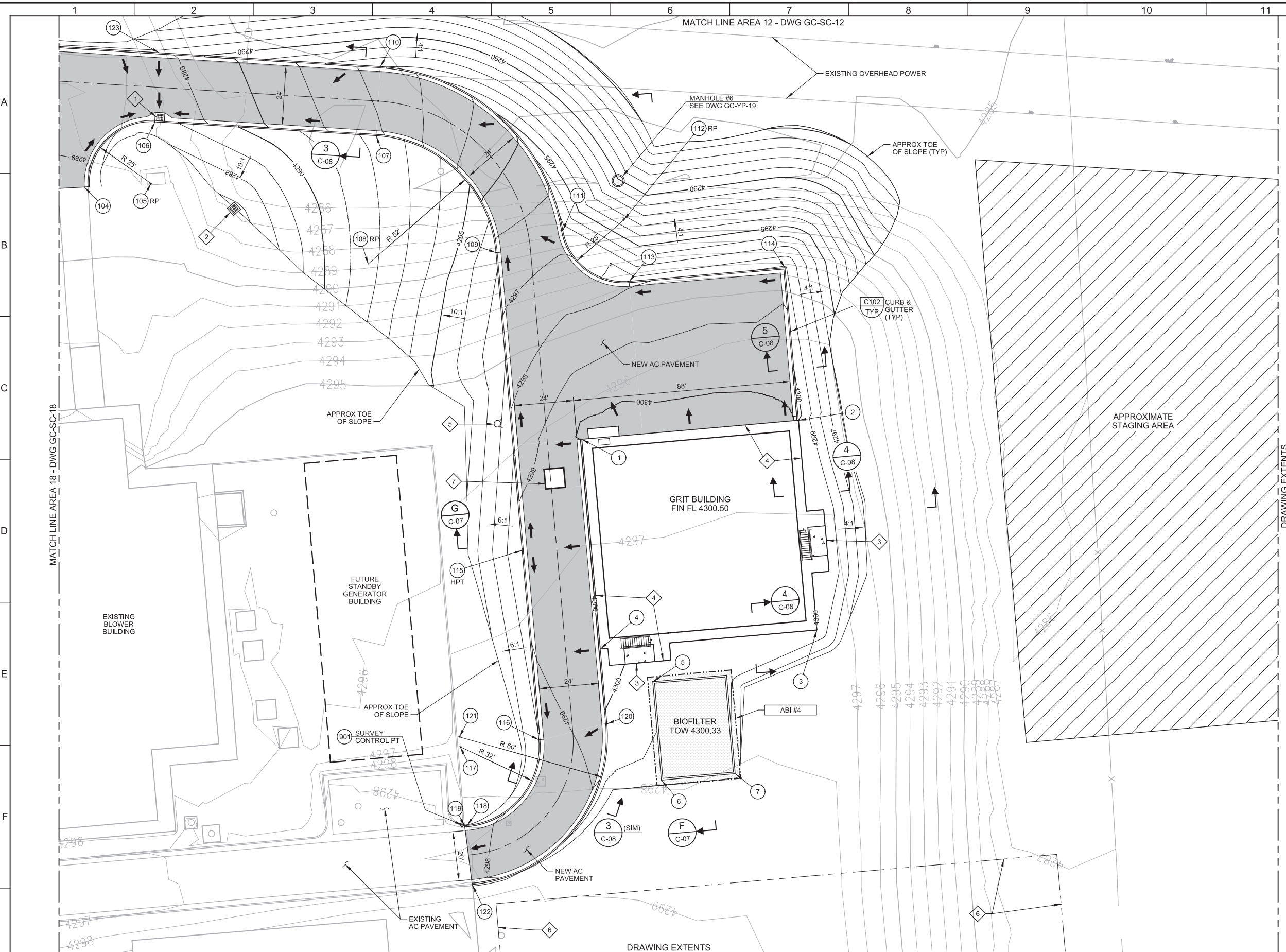


SOUTH VALLEY WATER RECLAMATION FACILITY
PROJECT 5
 CIVIL
PAVING AND GRADING PLAN
AREA 18

VERIFY SCALES
 BAR IS ONE INCH ON ORIGINAL DRAWING
 0 1"

JOB NO.
 10548A.10
 DRAWING NO.
GC-SC-18
 SHEET NO.
 17 OF 159

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 LAST SAVED BY: idonnell



- KEY NOTES:**
- 1 CATCH BASIN PER DETAIL C002/TYP. TOP OF GRATING 4288.19. SEE DWG GC-YP-19.
 - 2 CATCH BASIN PER DETAIL C002/TYP. TOP OF GRATING 4286.70. SEE DWG GC-YP-19.
 - 3 7.0' WIDE SIDEWALK PER DETAIL 6/C-08.
 - 4 GRIT BUILDING FOUNDATION.
 - 5 UTILITY WATER HYDRANT. SEE DRAWING GC-YP-19.
 - 6 AREA WHERE CONTRACTOR IS NOT TO DISTURB ANY LANDSCAPING OR IRRIGATION.
 - 7 ELECTRICAL MANHOLE. SEE DRAWING GC-YP-19 AND ELECTRICAL DRAWINGS.

DENOTES ITEMS THAT ARE PART OF ALTERNATE BID ITEMS

9	10	11	12
16	17	18	19
23	24	25	26
	29	30	31

KEY MAP

REV	DATE	BY	DESCRIPTION
1			
2			
3			

DESIGNED
RWB

DRAWN
TSD

CHECKED
LHA

DATE
MARCH 2019

RYAN W. BENCH

BRAD D. JEPPESON

7495 South 1300 West
West Jordan, Utah 84084

SOUTH VALLEY WATER RECLAMATION FACILITY

PROJECT 5

CIVIL

PAVING AND GRADING PLAN
AREA 19

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING

0 1"

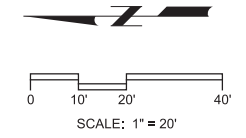
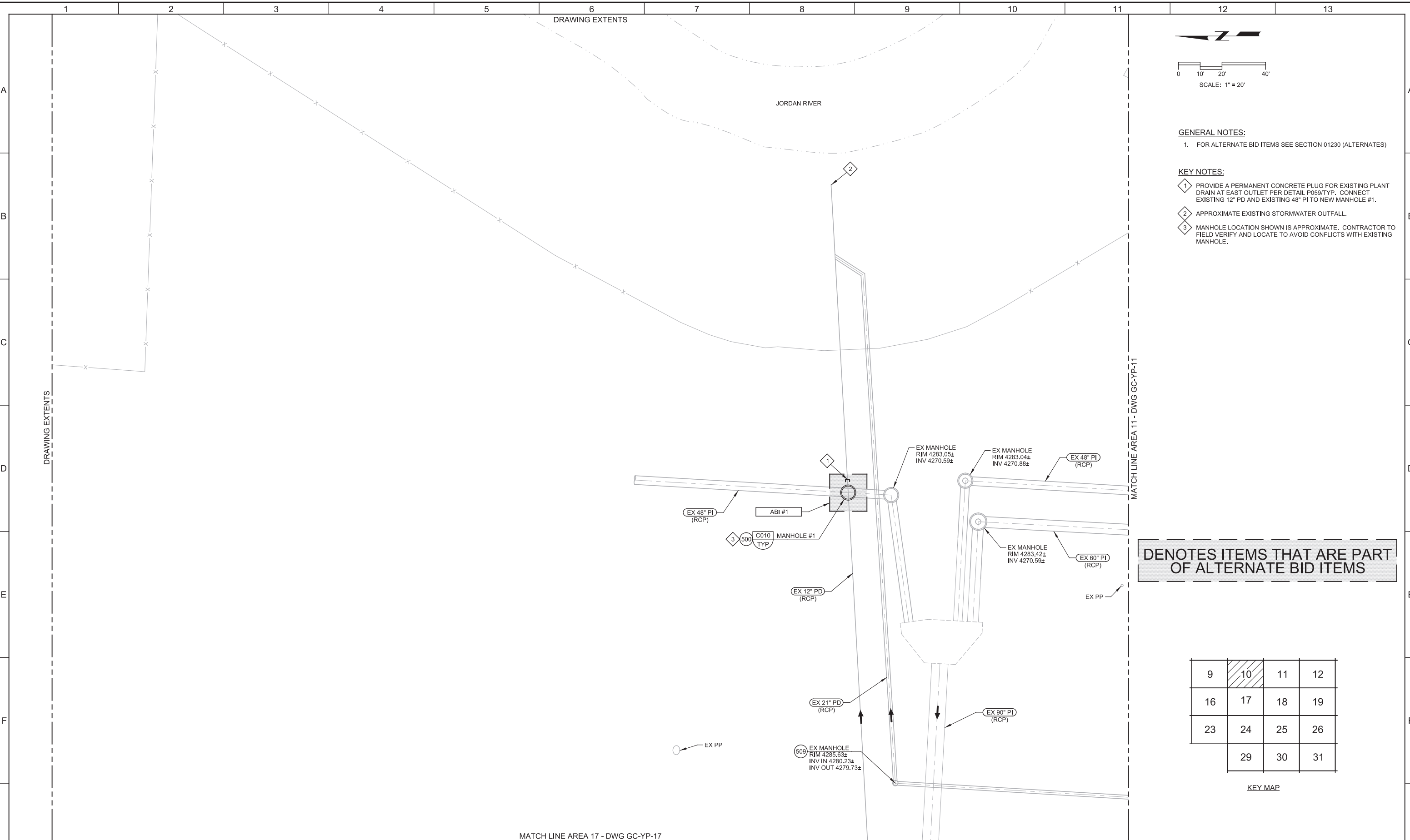
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

JOB NO.
10548A.10

DRAWING NO.
GC-SC-19

SHEET NO.
18 OF 159

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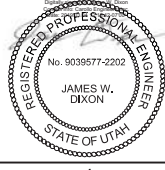
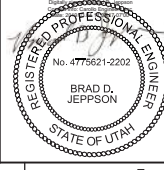
- GENERAL NOTES:**
- FOR ALTERNATE BID ITEMS SEE SECTION 01230 (ALTERNATES)
- KEY NOTES:**
- PROVIDE A PERMANENT CONCRETE PLUG FOR EXISTING PLANT DRAIN AT EAST OUTLET PER DETAIL P059/TYP. CONNECT EXISTING 12" PD AND EXISTING 48" PI TO NEW MANHOLE #1.
 - APPROXIMATE EXISTING STORMWATER OUTFALL.
 - MANHOLE LOCATION SHOWN IS APPROXIMATE. CONTRACTOR TO FIELD VERIFY AND LOCATE TO AVOID CONFLICTS WITH EXISTING MANHOLE.

DENOTES ITEMS THAT ARE PART OF ALTERNATE BID ITEMS


9	10	11	12
16	17	18	19
23	24	25	26
	29	30	31

KEY MAP


REV	DATE	BY	DESCRIPTION

DESIGNED JD DRAWN TSD CHECKED LHA DATE MARCH 2019	 
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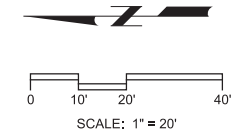
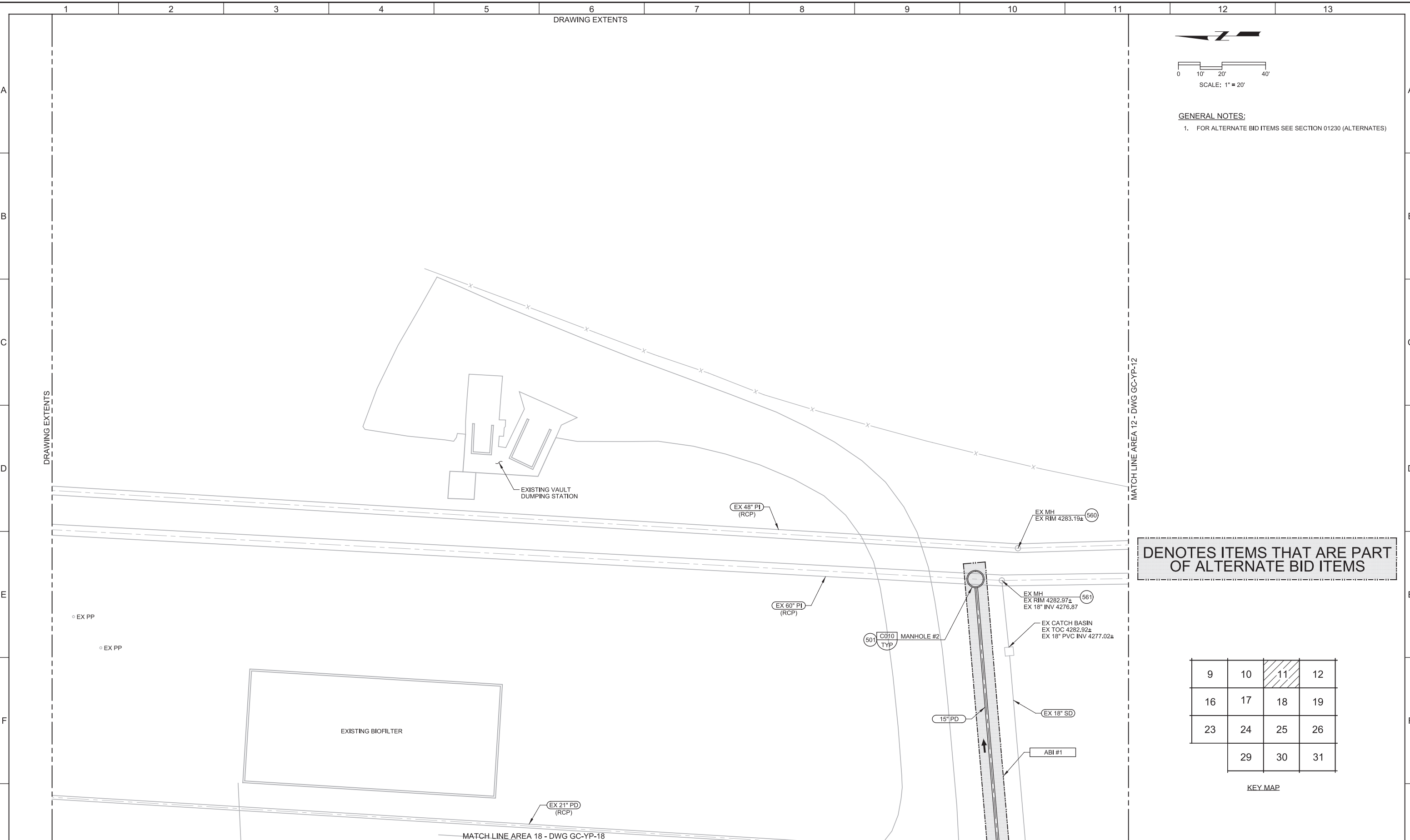
MATCH LINE AREA 17 - DWG GC-YP-17




7495 South 1300 West
 West Jordan, Utah 84084

SOUTH VALLEY WATER RECLAMATION FACILITY PROJECT 5 CIVIL YARD PIPING PLAN AREA 10	VERIFY SCALES BAR IS ONE INCH ON ORIGINAL DRAWING  IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	JOB NO. 10548A.10 DRAWING NO. GC-YP-10 SHEET NO. 19 OF 159
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Plot Date: 27-FEB-2019 14:12:33 PM
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 DesignScript: Carollo_Sld_Pen_v0905 - Civil2.pen
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 Model: Layout1
 LAST SAVED BY: idonnell



GENERAL NOTES:

- FOR ALTERNATE BID ITEMS SEE SECTION 01230 (ALTERNATES)

DENOTES ITEMS THAT ARE PART OF ALTERNATE BID ITEMS

9	10	11	12
16	17	18	19
23	24	25	26
	29	30	31

KEY MAP

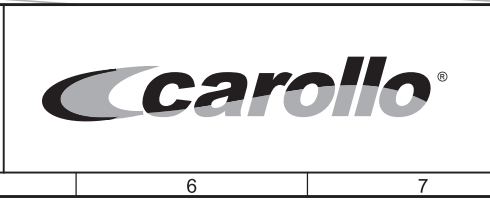
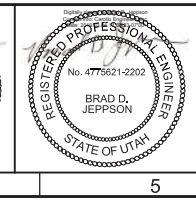
REV	DATE	BY	DESCRIPTION

DESIGNED
JD

DRAWN
TSD

CHECKED
LHA

DATE
MARCH 2019



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West Jordan, Utah 84084

SOUTH VALLEY WATER RECLAMATION FACILITY

PROJECT 5

CIVIL

YARD PIPING PLAN
AREA 11

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING

0 1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

JOB NO.
10548A.10

DRAWING NO.
GC-YP-11

SHEET NO.
20 OF 159

Plot Date: 27-FEB-2019 14:13:33 PM

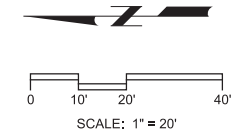
User: svcPW

PlotScale: 2:1

Model: Layout1 ColorTable: gshade.ctb DesignScript: Carollo_Std_Pen_v0905 - Civil2.dgn

LAST SAVED BY: idonnell

DRAWING EXTENTS

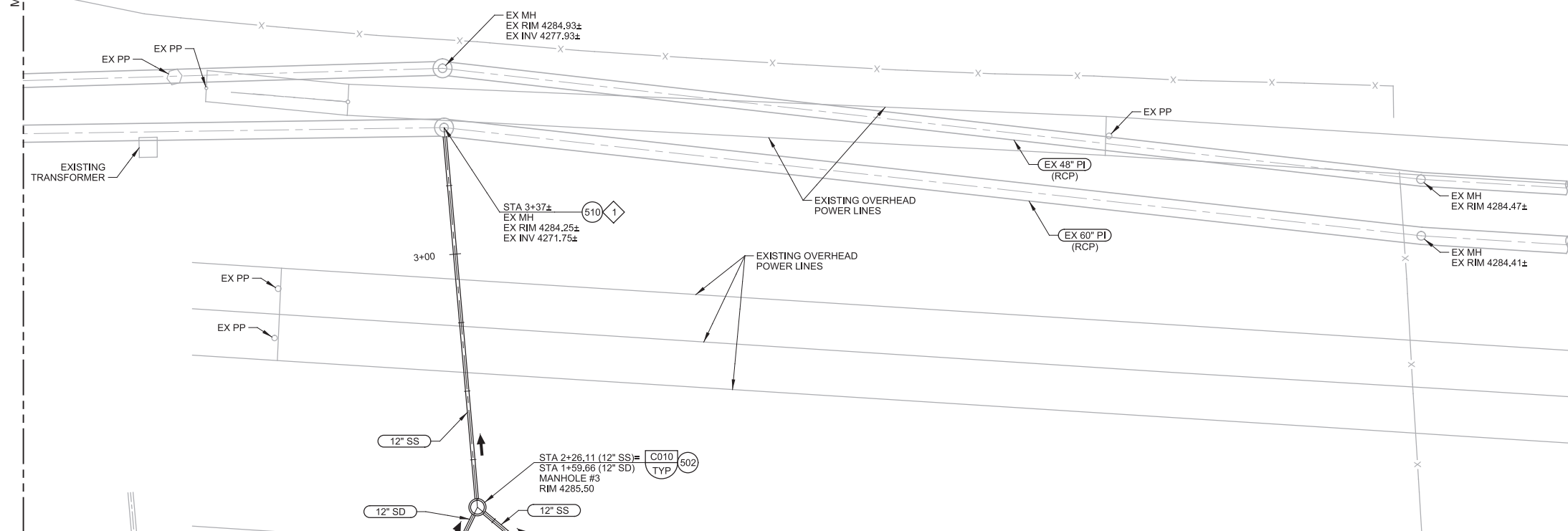


KEY NOTES:

- 1 CORE DRILL EXISTING MANHOLE WALL AND CONNECT 12" SS LINE. INSTALL MANHOLE BOOT TO PROVIDE WATER-TIGHT CONNECTION. MATCH CROWNS OF 12" SS LINE WITH EXISTING SANITARY SEWER LINE. FIELD VERIFY TOP OF CROWN. IF MANHOLE SHELF IS FLAT, SLOPE SHELF TO FLOW LINE OF MANHOLE. SEE DRAWING C-05 FOR PIPE PROFILE.

MATCH LINE AREA 11 - DWG GC-YP-11

DRAWING EXTENTS



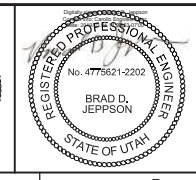
9	10	11	12
16	17	18	19
23	24	25	26
	29	30	31

KEY MAP

MATCH LINE AREA 19 - DWG GC-YP-19

REV	DATE	BY	DESCRIPTION

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RWB
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TSD
CHECKED
LHA
DATE
MARCH 2019



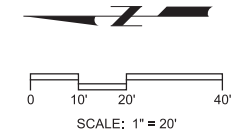
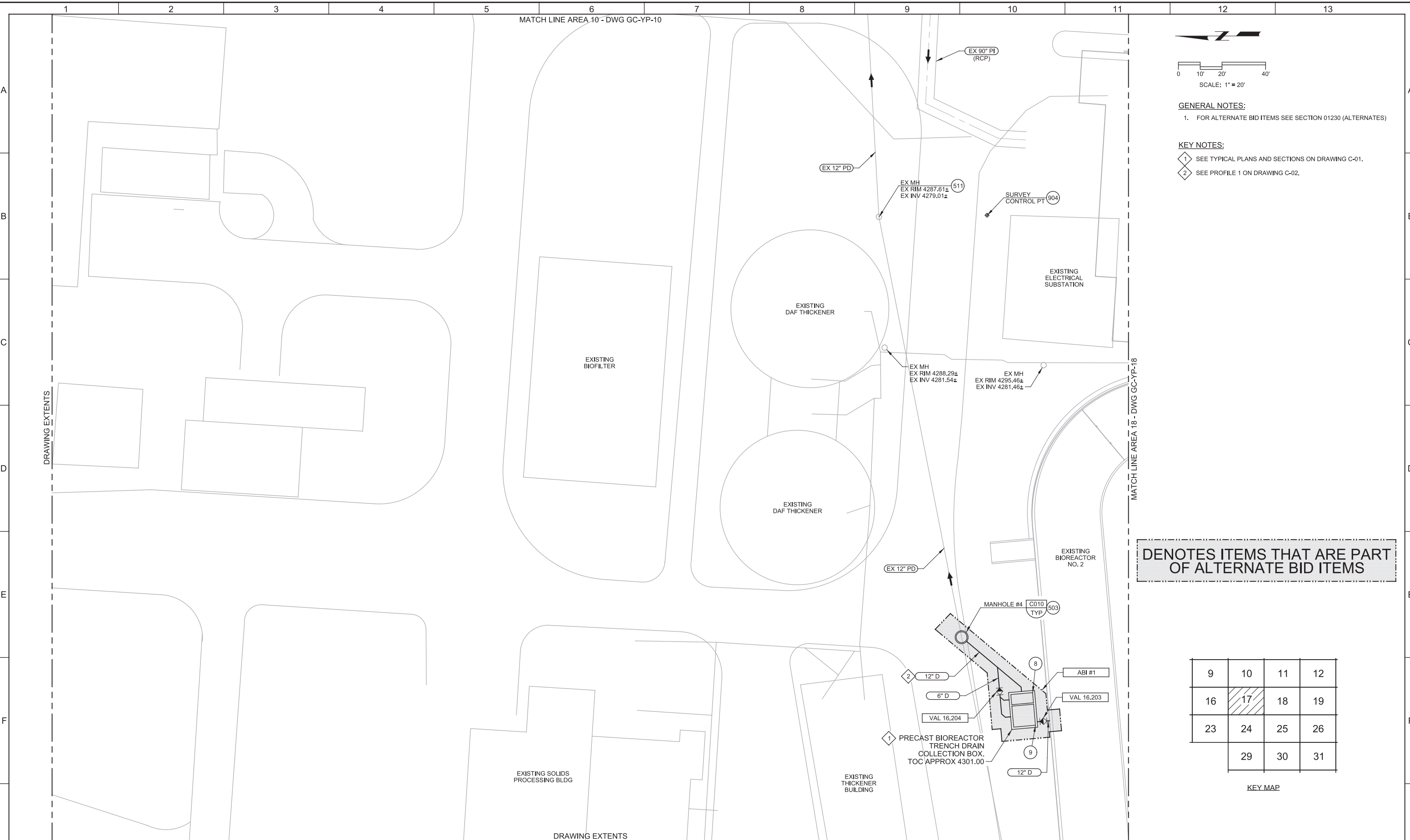
SV South Valley
WATER RECLAMATION FACILITY
7495 South 1300 West
West Jordan, Utah 84084

SOUTH VALLEY WATER RECLAMATION FACILITY
PROJECT 5
CIVIL
YARD PIPING PLAN
AREA 12

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING
0 1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

JOB NO.
10548A.10
DRAWING NO.
GC-YP-12
SHEET NO.
21 OF 159

Plot Date: 27-FEB-2019 14:11:18 PM
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 Model: Layout1 ColorTable: gshade.ctb DesignScript: Carollo_Std_Pen_v0905 - Civil2.pen PlotScale: 2:1
 LAST SAVED BY: idonnell



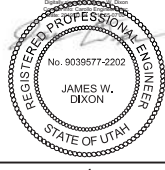
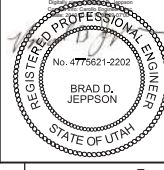
- GENERAL NOTES:**
- FOR ALTERNATE BID ITEMS SEE SECTION 01230 (ALTERNATES)
- KEY NOTES:**
- SEE TYPICAL PLANS AND SECTIONS ON DRAWING C-01.
 - SEE PROFILE 1 ON DRAWING C-02.

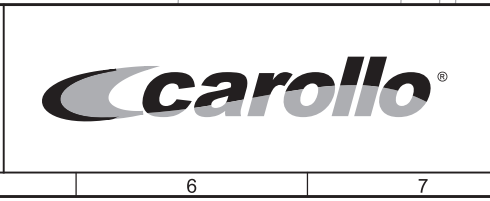
DENOTES ITEMS THAT ARE PART OF ALTERNATE BID ITEMS


9	10	11	12
16	17	18	19
23	24	25	26
	29	30	31

KEY MAP


REV	DATE	BY	DESCRIPTION

DESIGNED JD DRAWN TSD CHECKED LHA DATE MARCH 2019	 
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SOUTH VALLEY WATER RECLAMATION FACILITY
PROJECT 5
 CIVIL
YARD PIPING PLAN
AREA 17

VERIFY SCALES BAR IS ONE INCH ON ORIGINAL DRAWING  IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	JOB NO. 10548A.10 DRAWING NO. GC-YP-17 SHEET NO. 22 OF 159
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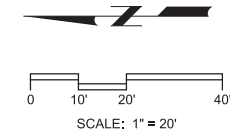
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 Model: Layout1 ColorTable: gshade.ctb DesignScript: Carollo_Std_Pen_v0905 - Civil2.dgn PlotScale: 2:1
 LAST SAVED BY: idonnell

MATCH LINE AREA 11 - DWG GC-YP-11

MATCH LINE AREA 25 - DWG GC-YP-25

DRAWING EXTENTS

MATCH LINE AREA 19 - DWG GC-YP-19



GENERAL NOTES:

1. FOR ALTERNATE BID ITEMS SEE SECTION 01230 (ALTERNATES)

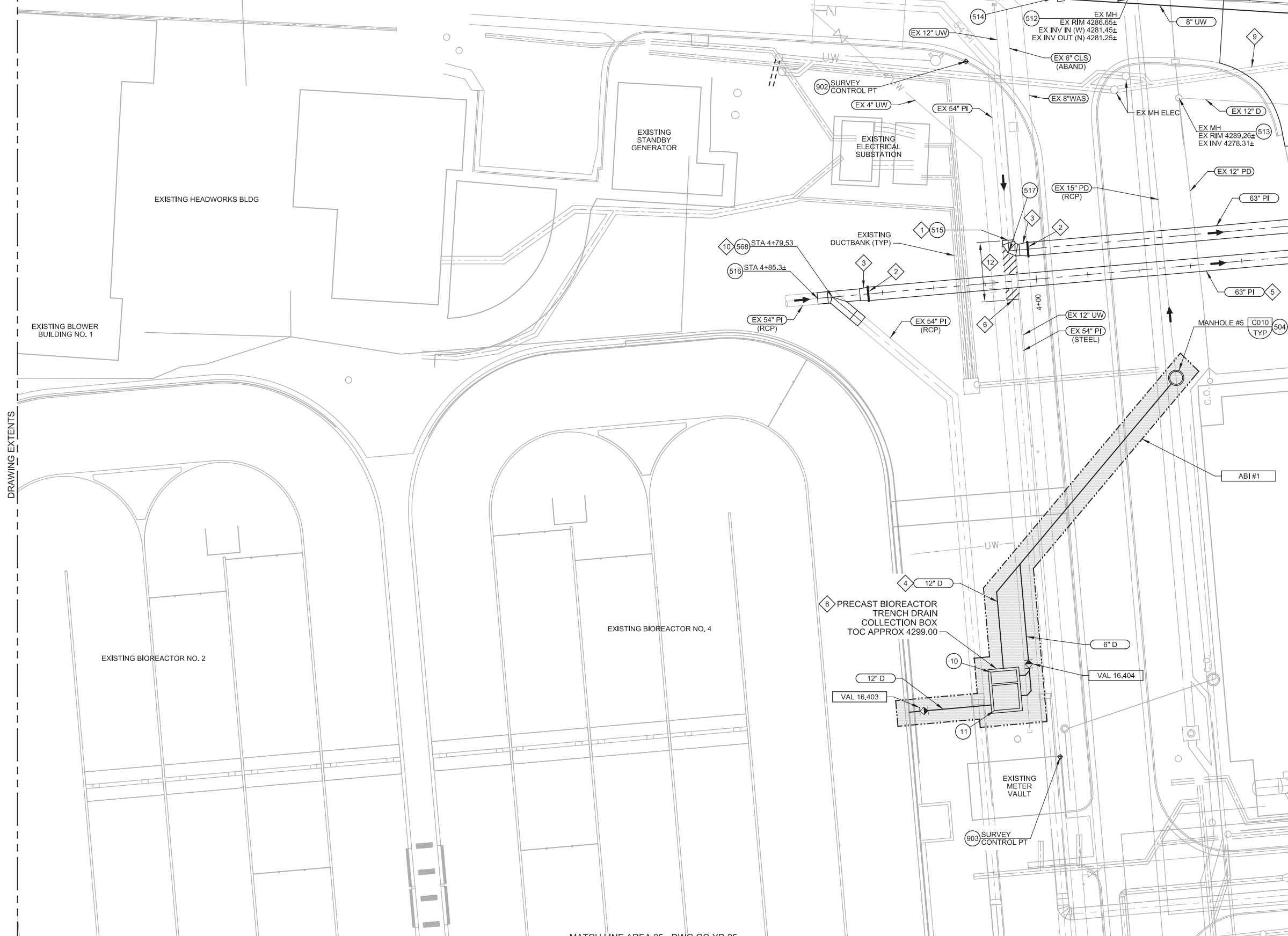
KEY NOTES:

- 1 WELD NEW 54" STEEL 90° BEND TO EXISTING STEEL PIPE PER DETAIL P834/TYP.
- 2 CONTRACTOR TO PRESSURE TEST NEW 63" HDPE PIPES BACK TO THE GRIT BUILDING BEFORE CONNECTING TO STEEL FLANGE. FLANGE CONNECTION PER DETAIL P851/TYP.
- 3 54" x 63" FABRICATED STEEL INCREASER.
- 4 SEE PROFILE 3 ON DRAWING C-02.
- 5 SEE 63" PI PROFILE ON DRAWING C-04.
- 6 PLUG EXISTING STEEL PIPE PER DETAIL P059/TYP.
- 7 12" x 8" REDUCER (UW).
- 8 SEE TYPICAL PLANS AND SECTIONS ON DRAWING C-01.
- 9 ELECTRICAL DUCT BANK. SEE ELECTRICAL DRAWINGS.
- 10 54" WYE PER DETAIL P883/TYP.
- 11 PROVIDE PERMANENT CONCRETE PLUG FOR EXISTING PLANT DRAIN AT NORTH OUTLET PER DETAIL P059/TYP. CONNECT 15" PD AT EXISTING MANHOLE.
- 12 SAW CUT AND REMOVE EXISTING 54" STEEL PIPE TO ALLOW 63" PI PIPE CROSSING.

DENOTES ITEMS THAT ARE PART OF ALTERNATE BID ITEMS

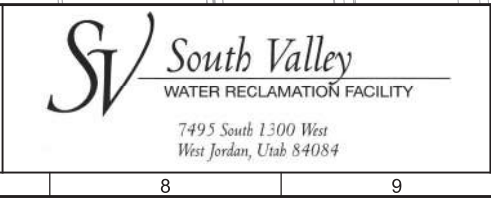
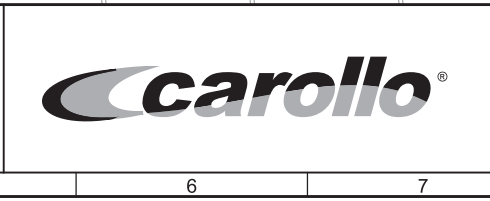
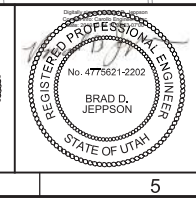
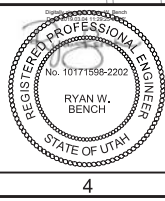
9	10	11	12
16	17	18	19
23	24	25	26
	29	30	31

KEY MAP



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SOUTH VALLEY WATER RECLAMATION FACILITY
PROJECT 5
 CIVIL
YARD PIPING PLAN
AREA 18

VERIFY SCALES
 BAR IS ONE INCH ON ORIGINAL DRAWING
 0 1"

JOB NO.
 10548A.10
 DRAWING NO.
GC-YP-18
 SHEET NO.
 23 OF 159

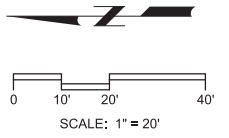
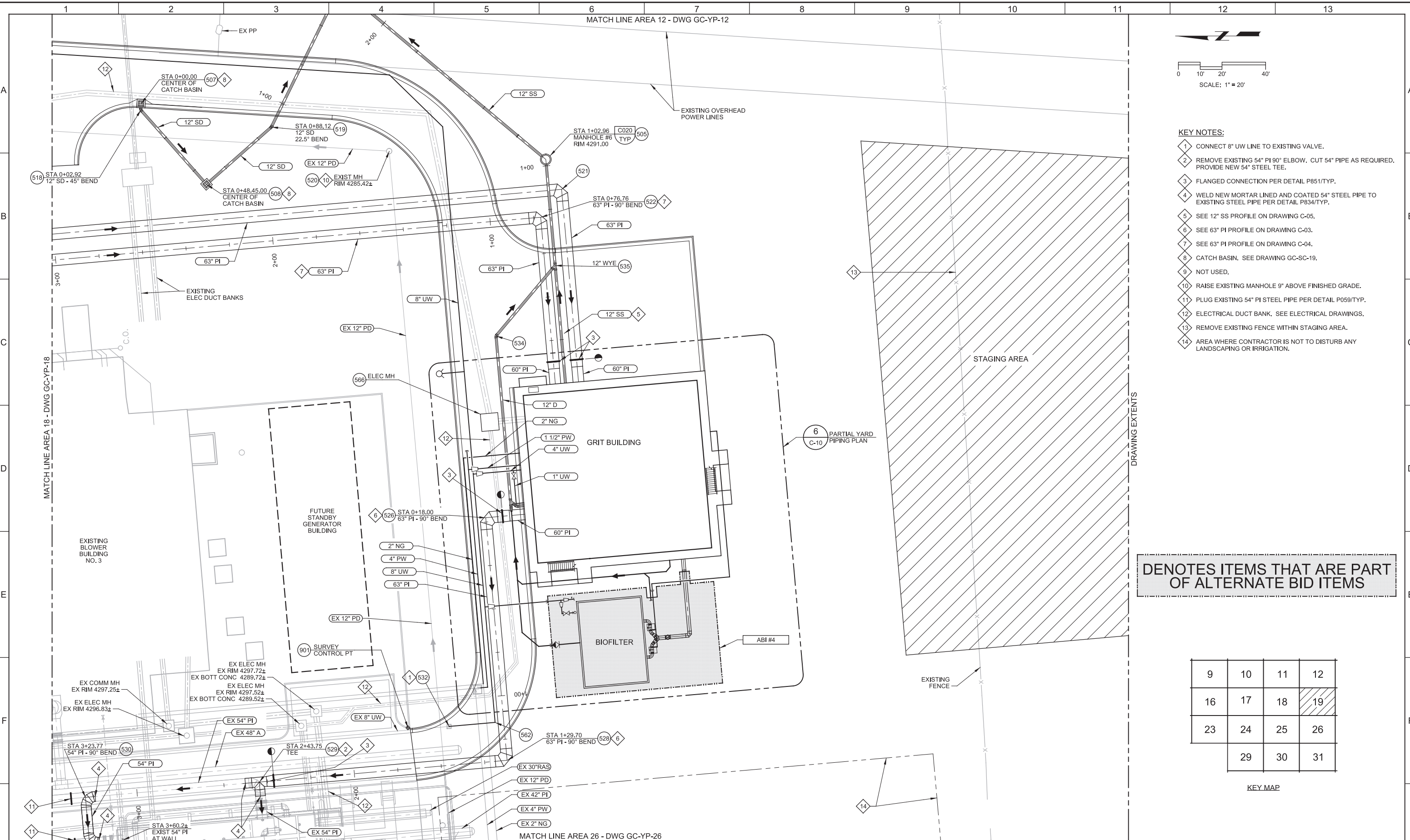
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User: svcPW

PlotScale: 2:1

Model: Layout1 ColorTable: gshade.ctb DesignScript: Carollo_Std_Pen_v0905 - Civil2.dgn

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KEY NOTES:

- 1 CONNECT 8" UW LINE TO EXISTING VALVE.
- 2 REMOVE EXISTING 54" PI 90° ELBOW. CUT 54" PIPE AS REQUIRED. PROVIDE NEW 54" STEEL TEE.
- 3 FLANGED CONNECTION PER DETAIL P851/TYP.
- 4 WELD NEW MORTAR LINED AND COATED 54" STEEL PIPE TO EXISTING STEEL PIPE PER DETAIL P834/TYP.
- 5 SEE 12" SS PROFILE ON DRAWING C-05.
- 6 SEE 63" PI PROFILE ON DRAWING C-03.
- 7 SEE 63" PI PROFILE ON DRAWING C-04.
- 8 CATCH BASIN. SEE DRAWING GC-SC-19.
- 9 NOT USED.
- 10 RAISE EXISTING MANHOLE 9" ABOVE FINISHED GRADE.
- 11 PLUG EXISTING 54" PI STEEL PIPE PER DETAIL P059/TYP.
- 12 ELECTRICAL DUCT BANK. SEE ELECTRICAL DRAWINGS.
- 13 REMOVE EXISTING FENCE WITHIN STAGING AREA.
- 14 AREA WHERE CONTRACTOR IS NOT TO DISTURB ANY LANDSCAPING OR IRRIGATION.

DENOTES ITEMS THAT ARE PART OF ALTERNATE BID ITEMS

9	10	11	12
16	17	18	19
23	24	25	26
	29	30	31

KEY MAP

REV	DATE	BY	DESCRIPTION

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DRAWN TSD		
CHECKED LHA	DATE MARCH 2019	

SOUTH VALLEY WATER RECLAMATION FACILITY
PROJECT 5
 CIVIL
YARD PIPING PLAN
AREA 19

VERIFY SCALES BAR IS ONE INCH ON ORIGINAL DRAWING 0 1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	JOB NO. 10548A.10 DRAWING NO. GC-YP-19 SHEET NO. 24 OF 159
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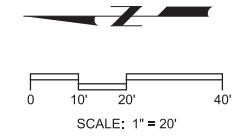
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User: svcpw

PlotScale: 2:1

LAST SAVED BY: idonnell

MATCH LINE AREA 18 - DWG GC-YP-18



GENERAL NOTES:
 1. FOR ALTERNATE BID ITEMS SEE SECTION 01230 (ALTERNATES)

KEY NOTES:
 1 SEE TYPICAL PLANS AND SECTIONS ON DRAWING C-01.
 2 SEE PROFILE 2 ON DRAWING C-02.

DRAWING EXTENTS

MATCH LINE AREA 26 - DWG GC-YP-26

EXISTING BIOREACTOR NO. 2

EXISTING BIOREACTOR NO. 4

EXISTING BIOREACTOR NO. 5

EXISTING BIOREACTOR NO. 1

EXISTING BIOREACTOR NO. 3

EX 30" RAS
EX 36" RAS

1 PRECAST BIOREACTOR TRENCH DRAIN COLLECTION BOX TOC APPROX 4301.00

2 12" D

VAL 16.303

6" D
VAL 16.304

12" D

EX 12" UW
EX 8" S
EX 6" CLS

DENOTES ITEMS THAT ARE PART OF ALTERNATE BID ITEMS

9	10	11	12
16	17	18	19
23	24	25	26
	29	30	31

KEY MAP

DRAWING EXTENTS

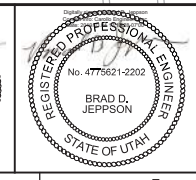
REV	DATE	BY	DESCRIPTION

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JD

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TSD

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DATE
MARCH 2019



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SOUTH VALLEY WATER RECLAMATION FACILITY

PROJECT 5
 CIVIL
 YARD PIPING PLAN
 AREA 25

VERIFY SCALES
 BAR IS ONE INCH ON ORIGINAL DRAWING
 0 1"

IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

JOB NO.
10548A.10

DRAWING NO.
GC-YP-25

SHEET NO.
25 OF 159

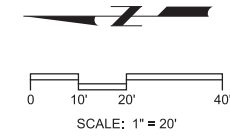
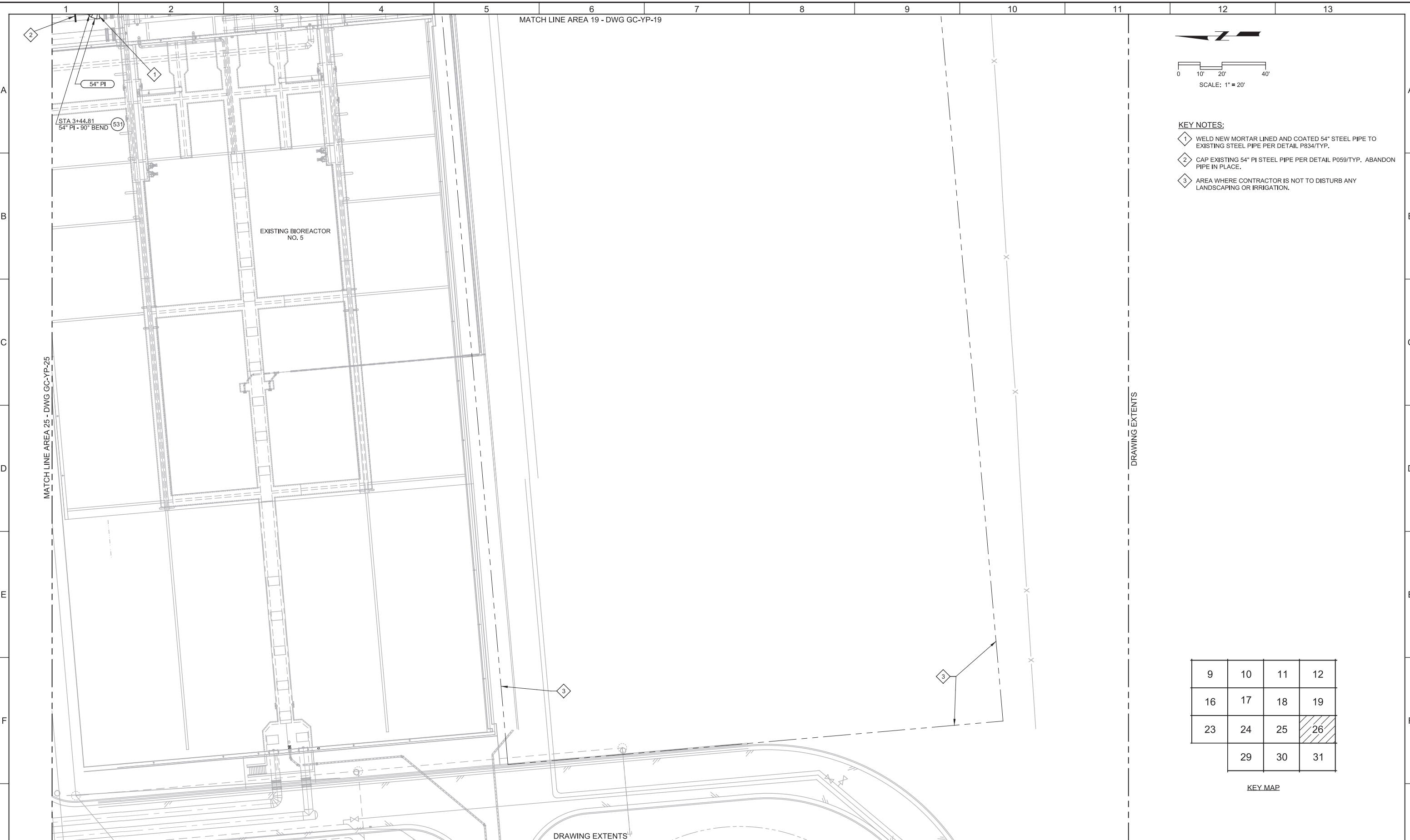
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User: svcPW

Plot Scale: 2:1

Model: Layout1 ColorTable: gshade.ctb DesignScript: Carollo_Std_Pen_v0905 - Civil2.dgn

LAST SAVED BY: idonnell



- KEY NOTES:**
- 1 WELD NEW MORTAR LINED AND COATED 54" STEEL PIPE TO EXISTING STEEL PIPE PER DETAIL P834/TYP.
 - 2 CAP EXISTING 54" PI STEEL PIPE PER DETAIL P059/TYP. ABANDON PIPE IN PLACE.
 - 3 AREA WHERE CONTRACTOR IS NOT TO DISTURB ANY LANDSCAPING OR IRRIGATION.

9	10	11	12
16	17	18	19
23	24	25	26
	29	30	31

KEY MAP

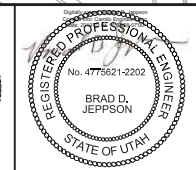
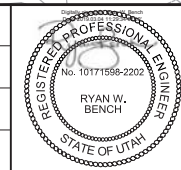
REV	DATE	BY	DESCRIPTION
1			
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RWB

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TSD

CHECKED
LHA

DATE
MARCH 2019



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SOUTH VALLEY WATER RECLAMATION FACILITY

PROJECT 5

CIVIL

**YARD PIPING PLAN
AREA 26**

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING
0 1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

JOB NO.
10548A.10

DRAWING NO.
GC-YP-26

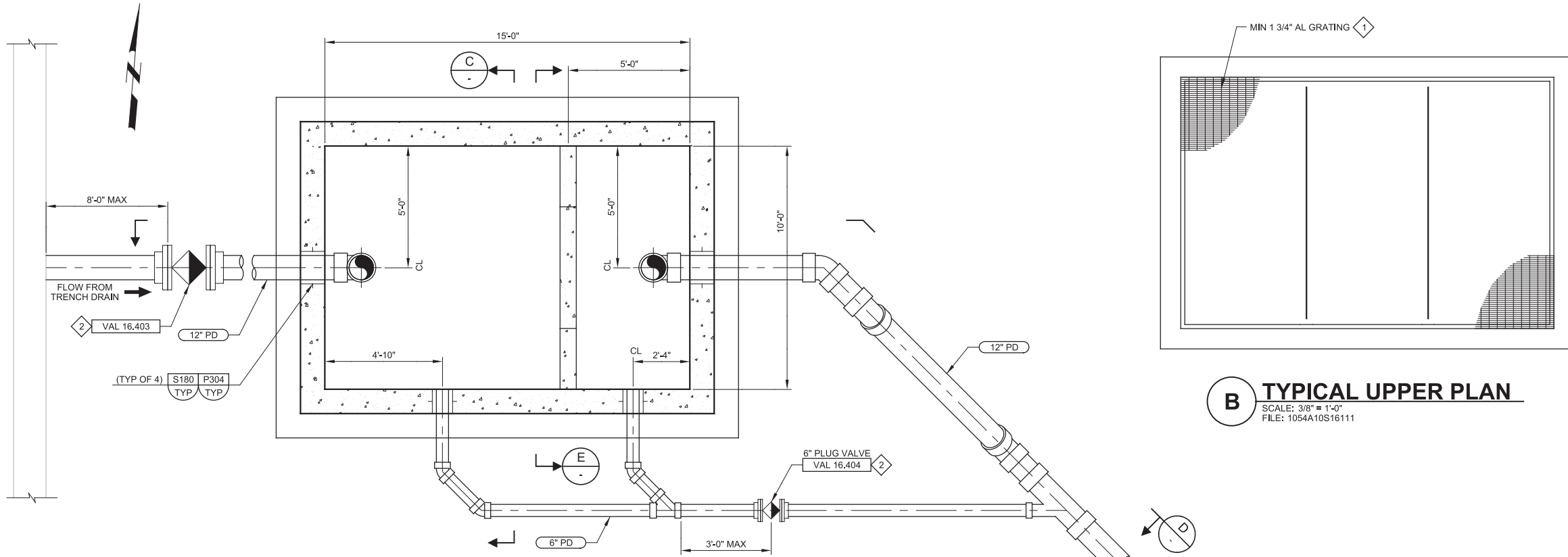
SHEET NO.
26 OF 159

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LAST SAVED BY: idonnell

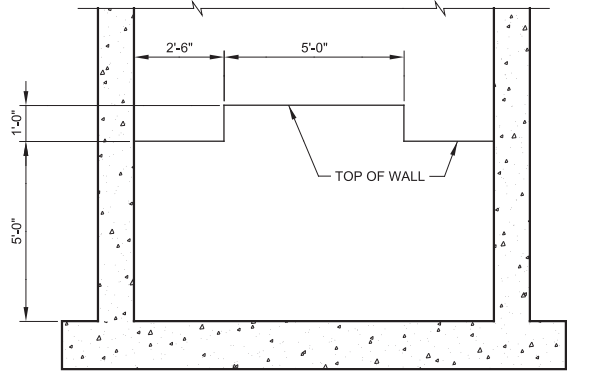


B TYPICAL UPPER PLAN
 SCALE: 3/8" = 1'-0"
 FILE: 1054A10S16111

- GENERAL NOTES:**
- FOR ALTERNATE BID ITEMS SEE SECTION 01230 (ALTERNATES)
 - BOX SHALL BE OLDCASTLE PRECAST CONCRETE VAULT OR EQUAL PER SPECIFICATION 02085.
 - THE SHOWN CONFIGURATION IS SPECIFIC TO BIOREACTOR 4. OTHER BIOREACTOR BOXES SHALL BE SIMILAR. CONTRACTOR SHALL ADJUST THE CONFIGURATION OF ALL PRECAST BOXES, PIPING, AND ALL OTHER APPURTENANCES NECESSARY TO MATCH YARD PIPING PLANS.

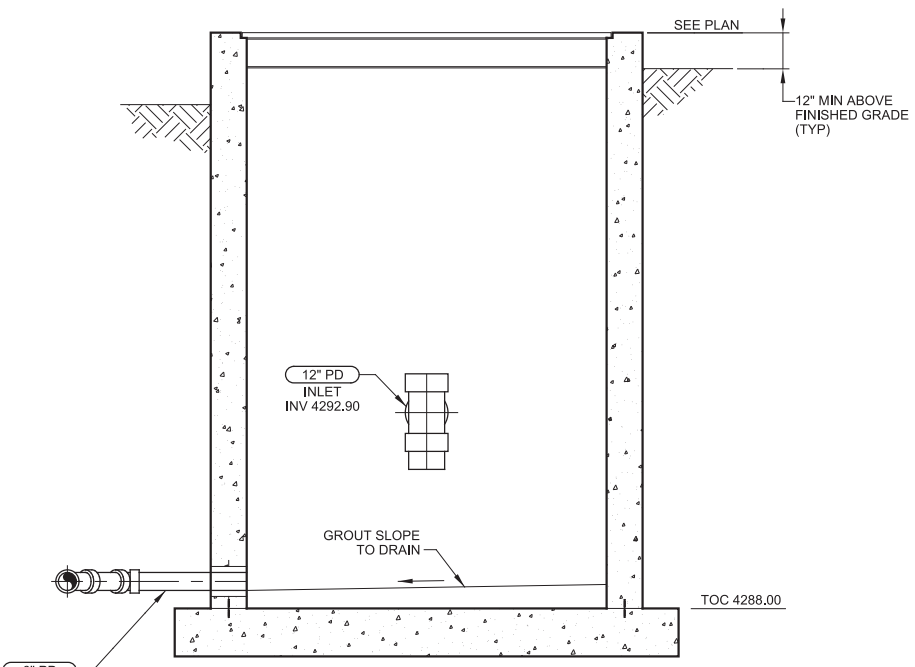
- KEY NOTES:**
- GRATING SHALL BE DESIGNED TO SUPPORT 100 PSF AND A MAXIMUM DEFLECTION OF 1/4".
 - PLUG VALVE PER DETAIL P022/TYP.

ENTIRE DRAWING IS PART OF ALTERNATE BID ITEM #1

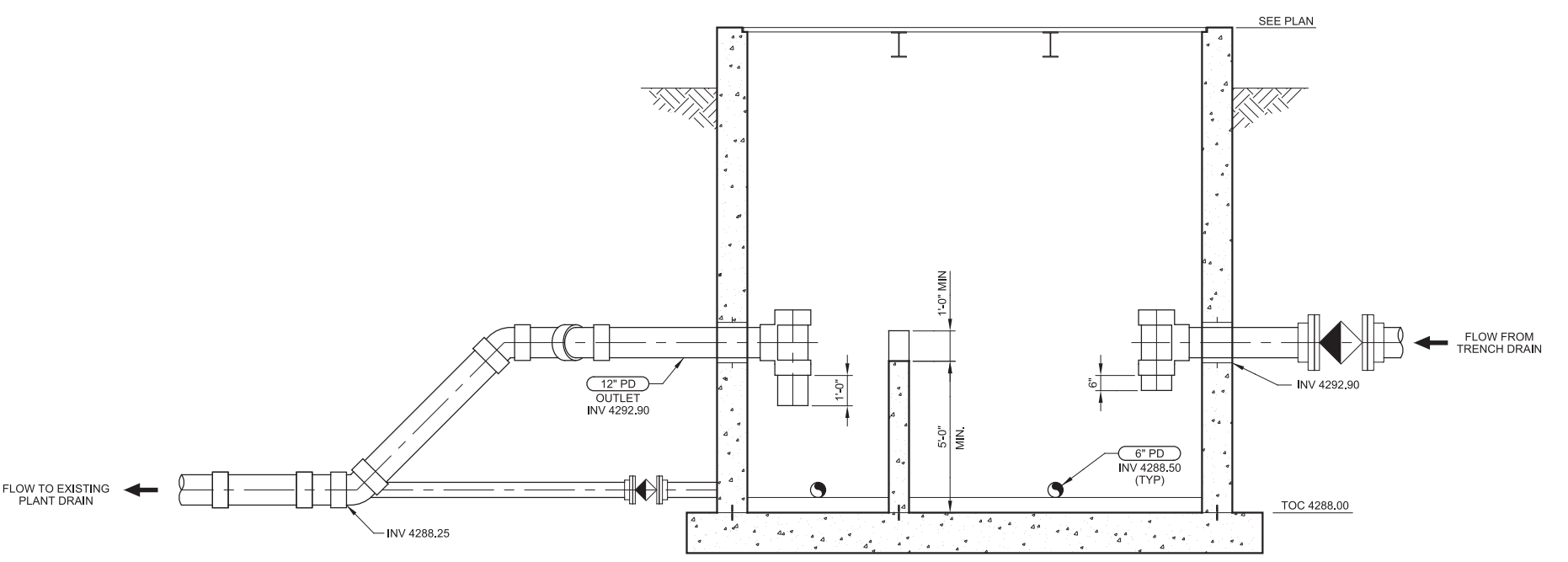


E SECTION
 SCALE: 3/8" = 1'-0"
 FILE: 1054A10S16312

A TYPICAL LOWER PLAN
 SCALE: 3/8" = 1'-0"
 FILE: 1054A10M16110



C SECTION
 SCALE: 3/8" = 1'-0"
 FILE: 1054A10M16310



D SECTION
 SCALE: 3/8" = 1'-0"
 FILE: 1054A10M16314

REV	DATE	BY	DESCRIPTION

DESIGNED JD
 DRAWN MM
 CHECKED LHA
 DATE MARCH 2019

JAMES W. DIXON
 REGISTERED PROFESSIONAL ENGINEER
 No. 9039577-2202
 STATE OF UTAH

BRAD D. JEPPISON
 REGISTERED PROFESSIONAL ENGINEER
 No. 4775621-2202
 STATE OF UTAH



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SOUTH VALLEY WATER RECLAMATION FACILITY
 PROJECT 5
 CIVIL
TYPICAL BIOREACTOR TRENCH DRAIN COLLECTION BOX PLANS AND SECTIONS (ABI #1)

VERIFY SCALES
 BAR IS ONE INCH ON ORIGINAL DRAWING
 0 1"
 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

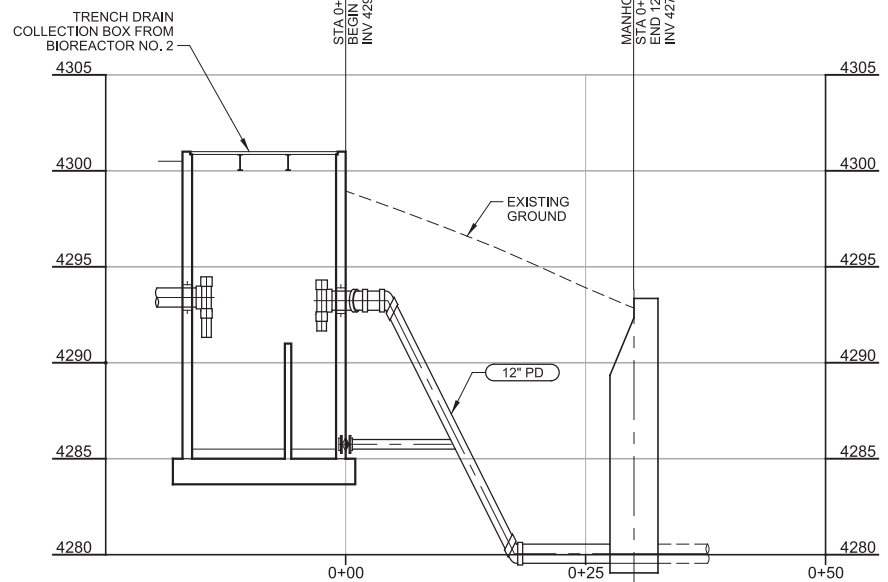
JOB NO. 10548A.10
 DRAWING NO. C-01
 SHEET NO. 27 OF 159

Plot Date: 27-FEB-2019 2:01:36 PM

User: svcPW

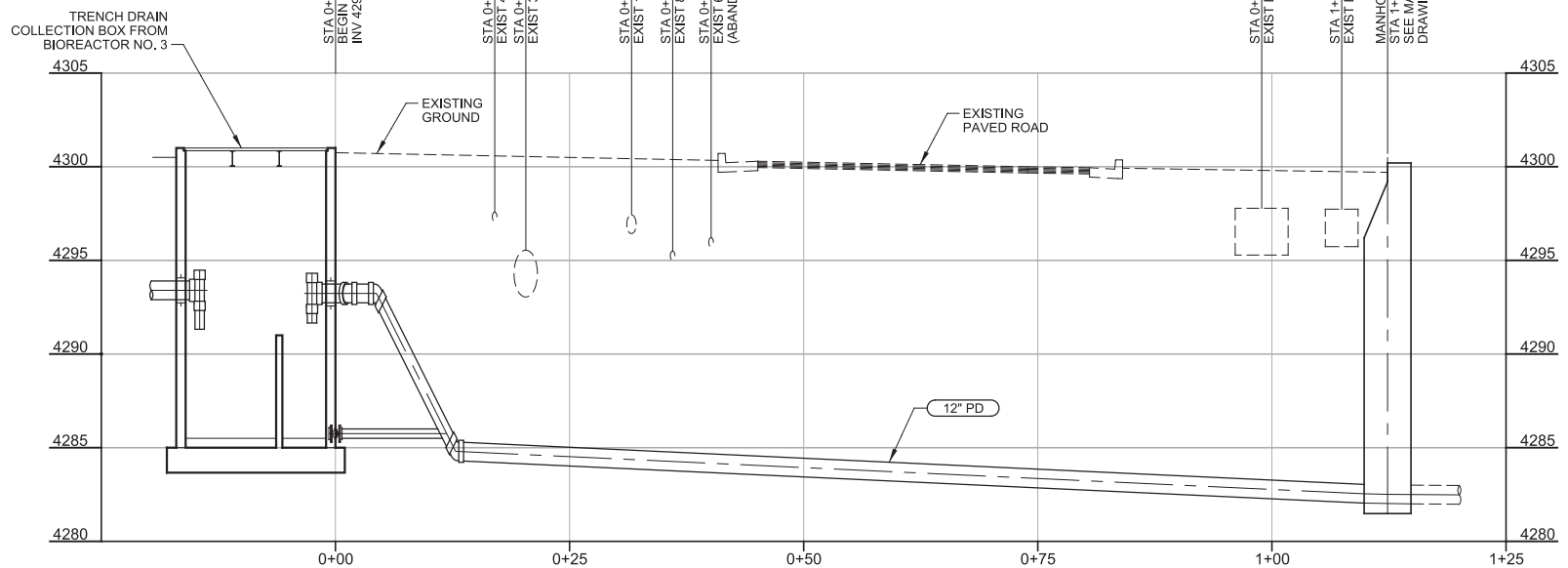
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LAST SAVED BY: idonnell



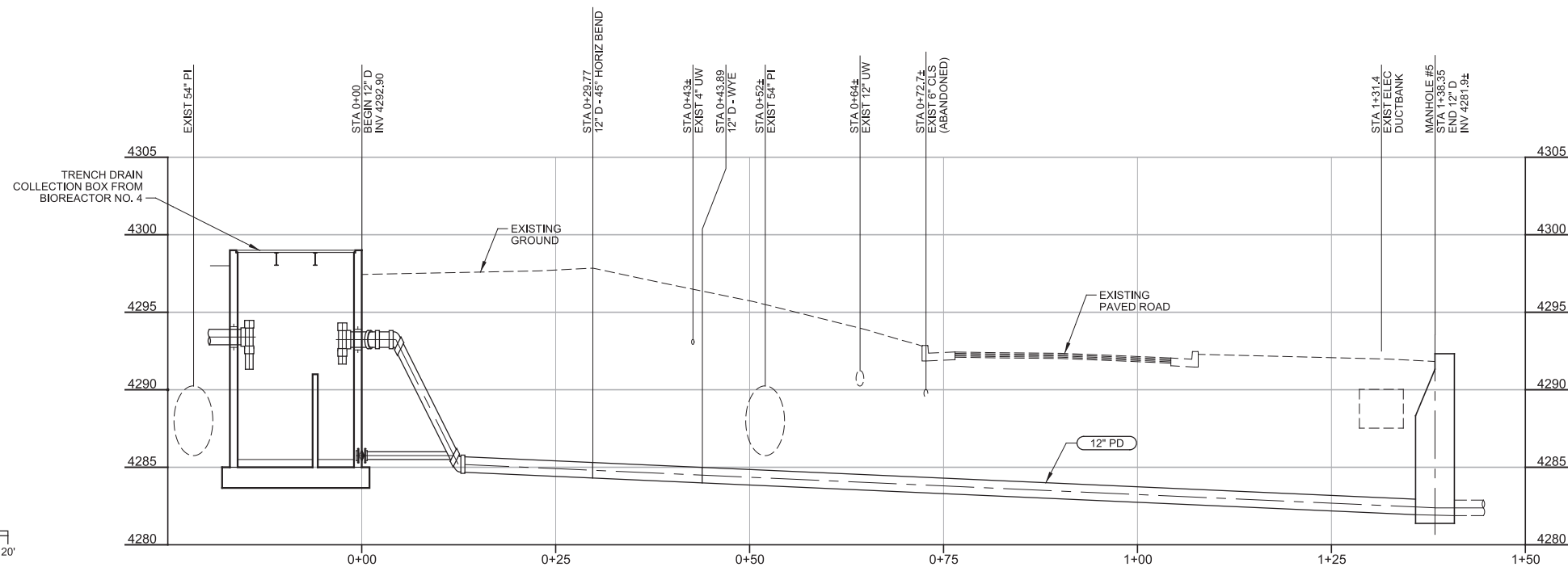
12" D PROFILE 1

HORIZ SCALE: 1" = 10'
VERT SCALE: 1" = 5'
FILE: 10548A1000C301



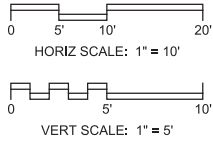
12" D PROFILE 2

HORIZ SCALE: 1" = 10'
VERT SCALE: 1" = 5'
FILE: 10548A1000C301



12" D PROFILE 3

HORIZ SCALE: 1" = 10'
VERT SCALE: 1" = 5'
FILE: 10548A1000C301

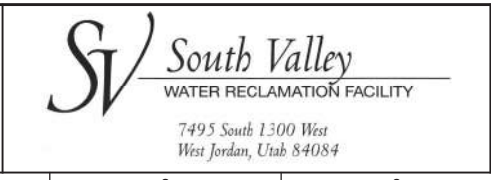
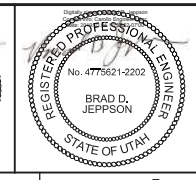


GENERAL NOTES:
1. ALL BOXES & APPURTENANCES ARE INCLUDED IN ABI #1.

ENTIRE DRAWING IS PART OF
ALTERNATE BID ITEM

REV	DATE	BY	DESCRIPTION
1			
2			
3			

DESIGNED	JD
DRAWN	TSD
CHECKED	LHA
DATE	MARCH 2019



SOUTH VALLEY WATER RECLAMATION FACILITY
PROJECT 5
CIVIL
PIPE PROFILES 1 (ABI #1)
(3) 12" D (DRAIN)

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING
0 1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

JOB NO. 10548A.10
DRAWING NO. C-02
SHEET NO. 28 OF 159

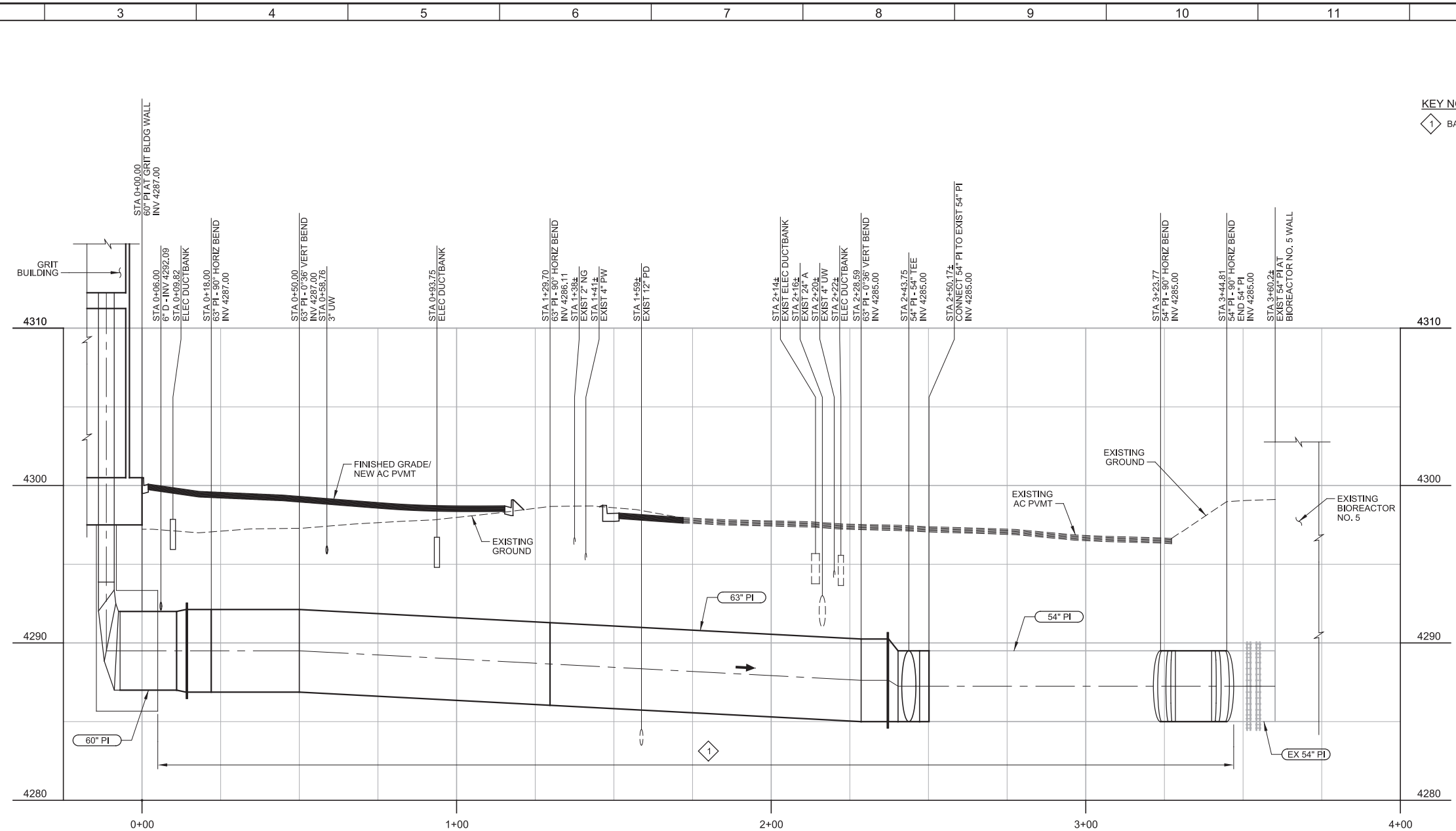
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Plot Scale: 2:1

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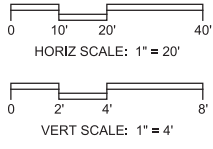
LAST SAVED BY: idonnell



KEY NOTES:
 1 BACKFILL TO SPRING LINE OF PIPE WITH CLSM.

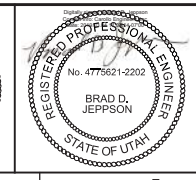
63" PI PROFILE

HORIZ SCALE: 1" = 20'
 VERT SCALE: 1" = 4'
 FILE: 10548A1000C301



REV	DATE	BY	DESCRIPTION
1			
2			
3			

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LHA
 DATE
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SOUTH VALLEY WATER RECLAMATION FACILITY
 PROJECT 5
 CIVIL
PIPE PROFILES 2
63" PI (PLANT INFLUENT)

VERIFY SCALES
 BAR IS ONE INCH ON ORIGINAL DRAWING
 0 1"
 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

JOB NO.
10548A.10
 DRAWING NO.
C-03
 SHEET NO.
29 OF 159

Plot Date: 27-FEB-2019 2:01:43 PM

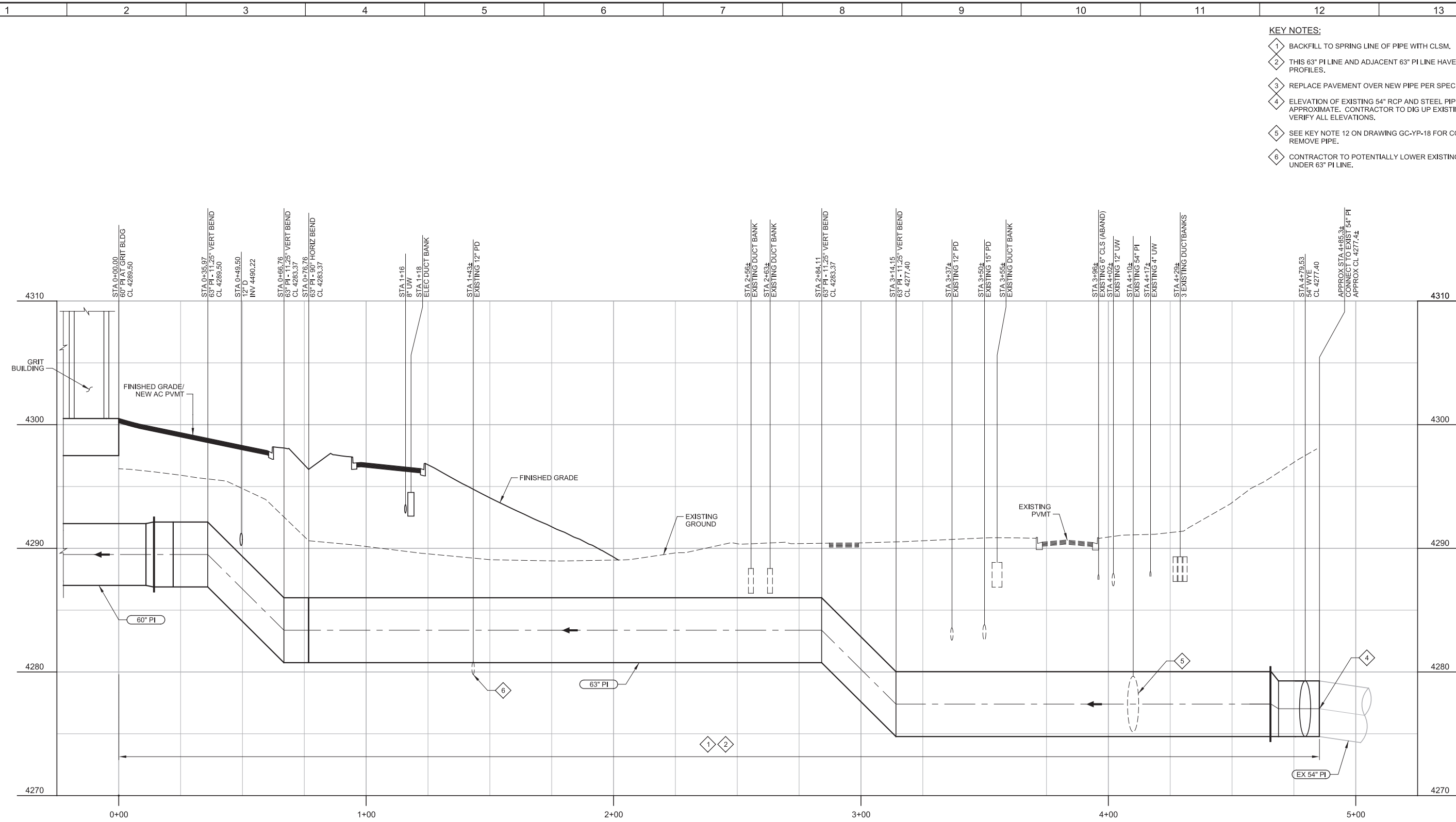
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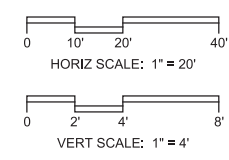
ColorTable: gshade.ctb

PROJECT NO. 10548A10

FILE NAME: 10548A1000C04.dgn



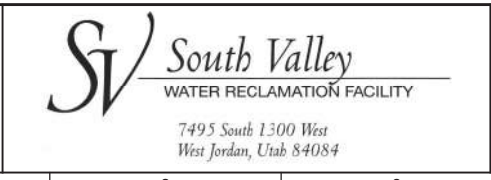
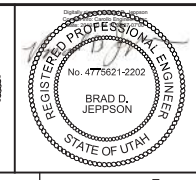
- KEY NOTES:**
- 1 BACKFILL TO SPRING LINE OF PIPE WITH CLSM.
 - 2 THIS 63" PI LINE AND ADJACENT 63" PI LINE HAVE SIMILAR PROFILES.
 - 3 REPLACE PAVEMENT OVER NEW PIPE PER SPECIFICATION 02592.
 - 4 ELEVATION OF EXISTING 54" RCP AND STEEL PIPES ARE APPROXIMATE. CONTRACTOR TO DIG UP EXISTING LINES AND VERIFY ALL ELEVATIONS.
 - 5 SEE KEY NOTE 12 ON DRAWING GC-YP-18 FOR CONTRACTOR TO REMOVE PIPE.
 - 6 CONTRACTOR TO POTENTIALLY LOWER EXISTING 12" PD LINE UNDER 63" PI LINE.



63" PI PROFILE
 HORIZ SCALE: 1" = 20'
 VERT SCALE: 1" = 4'
 FILE: 10548A1000C031

REV	DATE	BY	DESCRIPTION
1			
2			
3			

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TSD
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LHA
 DATE
MARCH 2019



SOUTH VALLEY WATER RECLAMATION FACILITY
 PROJECT 5
 CIVIL
PIPE PROFILES 3
63" PI (PLANT INFLUENT)

VERIFY SCALES
 BAR IS ONE INCH ON ORIGINAL DRAWING
 0 1"
 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

JOB NO.
10548A.10
 DRAWING NO.
C-04
 SHEET NO.
30 OF 159

Plot Date: 27-FEB-2019 2:01:38 PM

User: svcPW

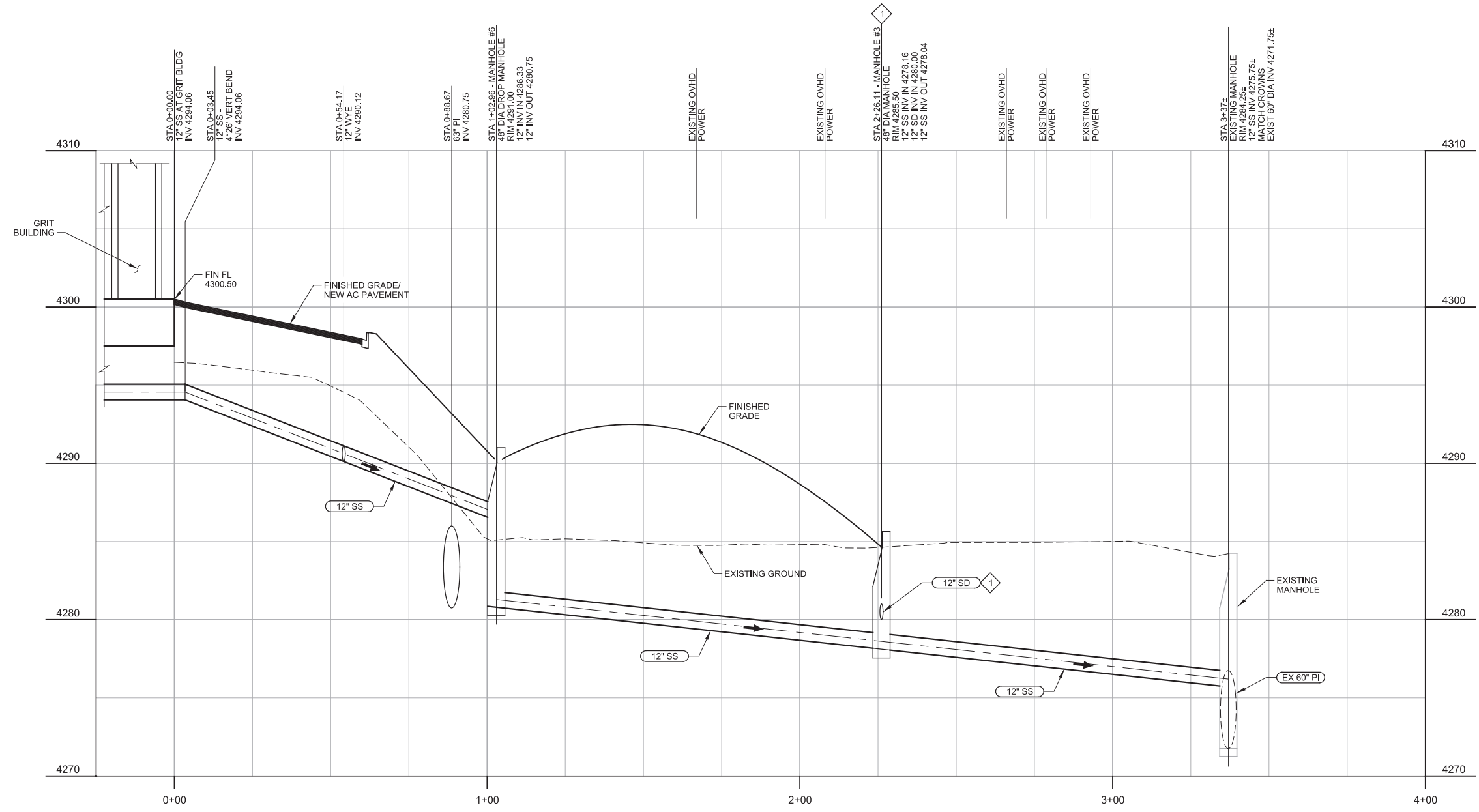
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Model: Layout1

ColorTable: gshade.ctb

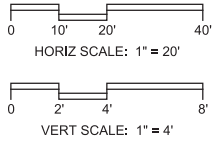
LAST SAVED BY: idonnell

KEY NOTES:
1 SEE DRAWINGS GC-YP-12 AND C-06.



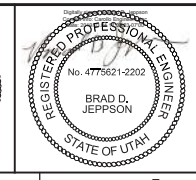
12" SS PROFILE

HORIZ SCALE: 1" = 20'
VERT SCALE: 1" = 4'
FILE: 10548A1000C301



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West Jordan, Utah 84084

SOUTH VALLEY WATER RECLAMATION FACILITY
PROJECT 5
CIVIL
PIPE PROFILES 4
12" SS (SANITARY SEWER)

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

JOB NO.
10548A.10
DRAWING NO.
C-05
SHEET NO.
31 OF 159

Plot Date: 27-FEB-2019 2:01:48 PM

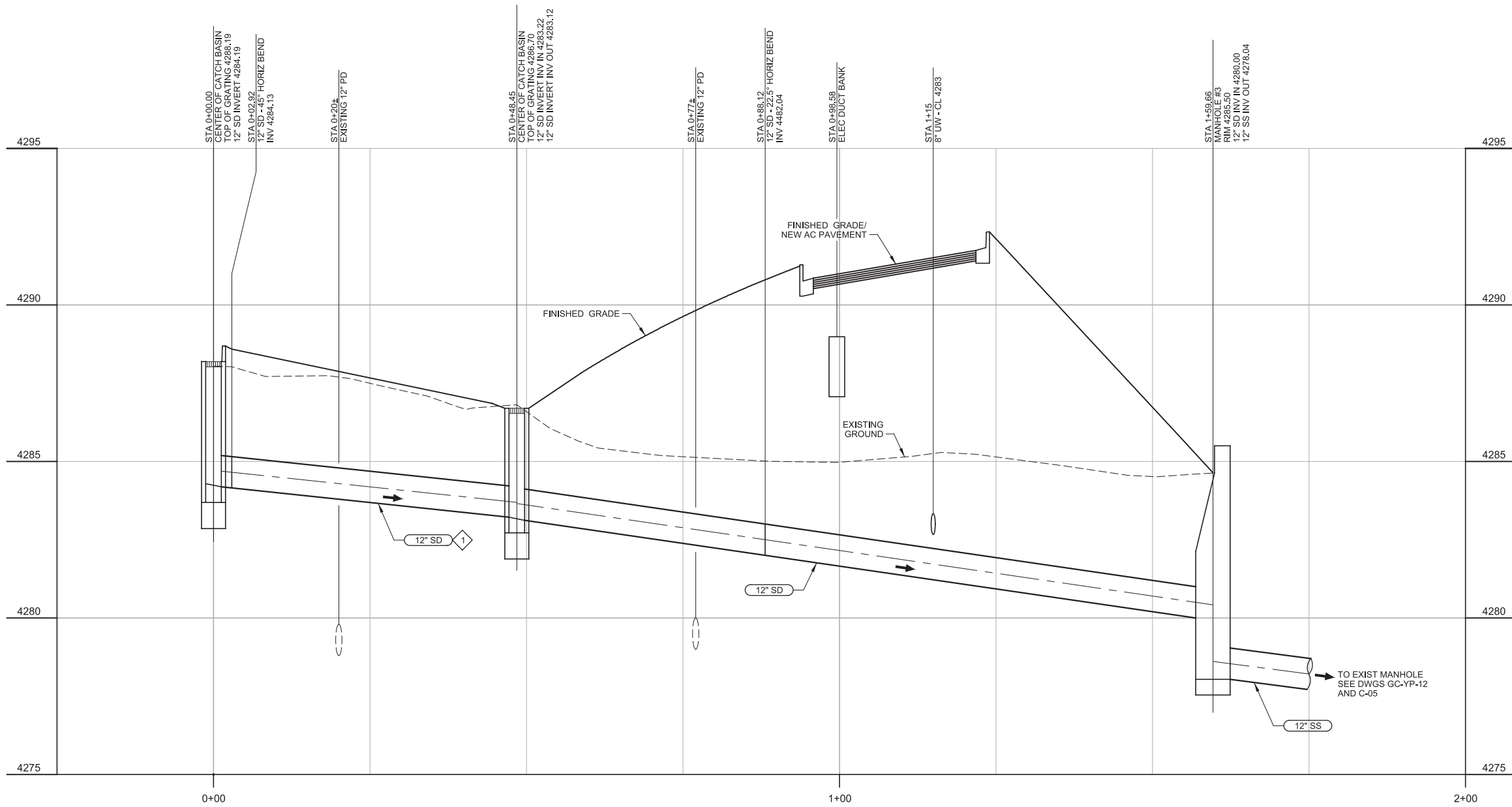
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Plot Scale: 2:1

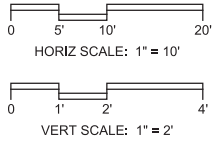
Model: Layout1 ColorTable: gshade.ctb DesignScript: Carollo_Sld_Pen_v0905.pen

LAST SAVED BY: idonnell

KEY NOTES:
1 SEE DRAWINGS GC-YP-12 AND GC-YP-19.

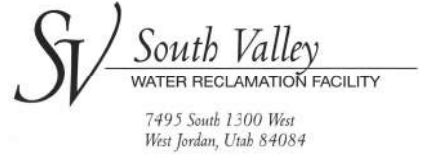
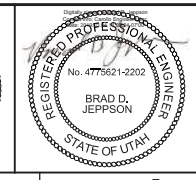


12" SD PROFILE
 HORIZ SCALE: 1" = 10'
 VERT SCALE: 1" = 2'
 FILE: 10548A1000C301



REV	DATE	BY	DESCRIPTION
1			
2			
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SOUTH VALLEY WATER RECLAMATION FACILITY
 PROJECT 5
 CIVIL
PIPE PROFILES 5
12" SD (STORM DRAIN)

VERIFY SCALES
 BAR IS ONE INCH ON ORIGINAL DRAWING
 0 1"
 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

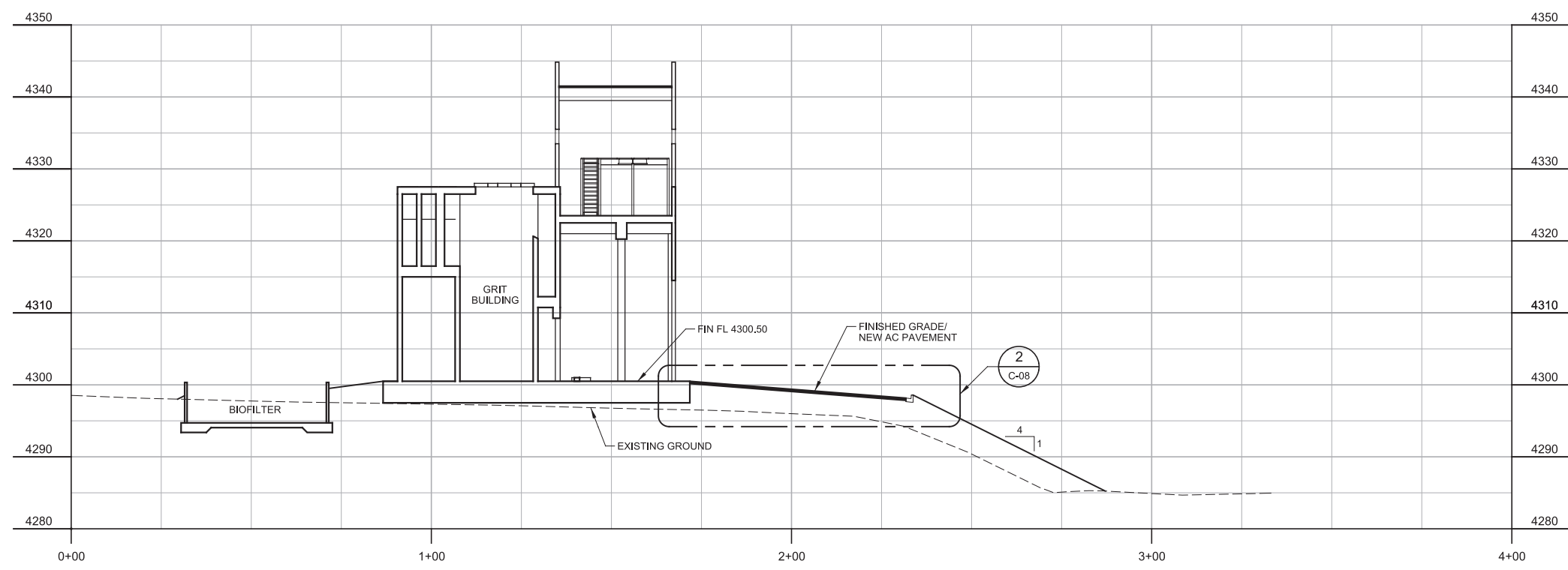
JOB NO.
10548A.10
 DRAWING NO.
C-06
 SHEET NO.
32 OF 159

Plot Date: 27-FEB-2019 2:01:47 PM

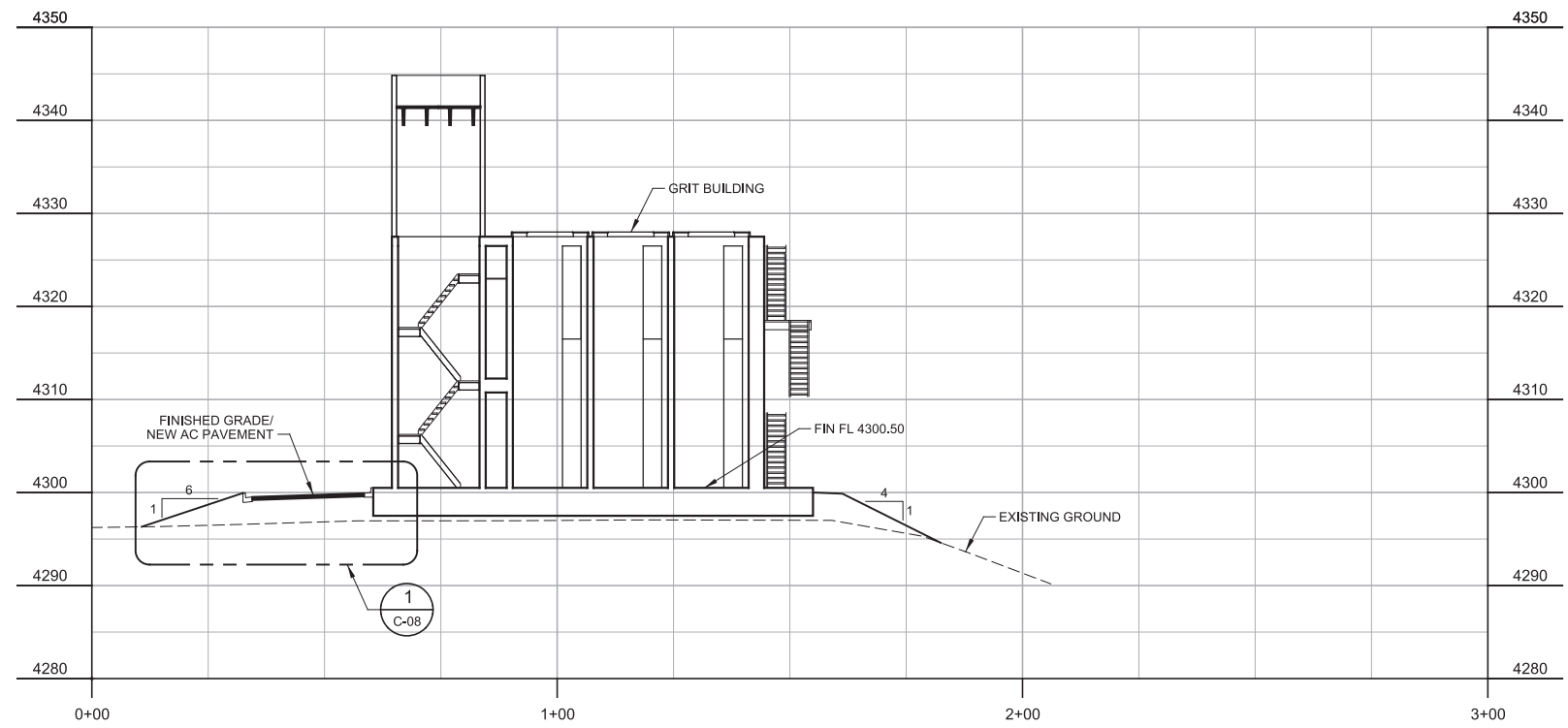
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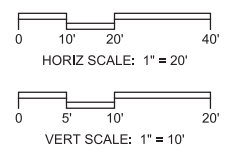
LAST SAVED BY: idonnell



F SECTION
 GC-SC-19 SCALE: 1" = 20'
 FILE: 10548A1000C302

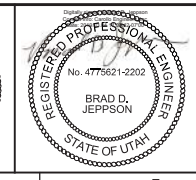


G SECTION
 GC-SC-19 SCALE: 1" = 20'
 FILE: 10548A1000C302



REV	DATE	BY	DESCRIPTION

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SOUTH VALLEY WATER RECLAMATION FACILITY
 PROJECT 5
 CIVIL
 SITE SECTIONS 1

VERIFY SCALES
 BAR IS ONE INCH ON ORIGINAL DRAWING
 0 1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

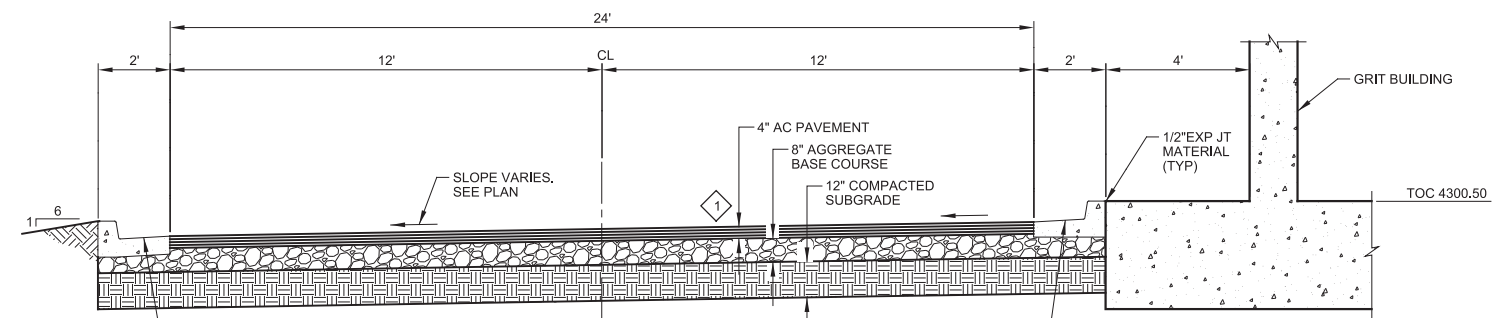
JOB NO.
 10548A.10
 DRAWING NO.
C-07
 SHEET NO.
 33 OF 159

Plot Date: 27-FEB-2019 2:01:39 PM

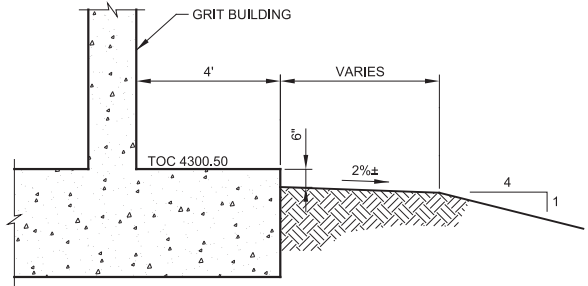
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PlotScale: 2:1

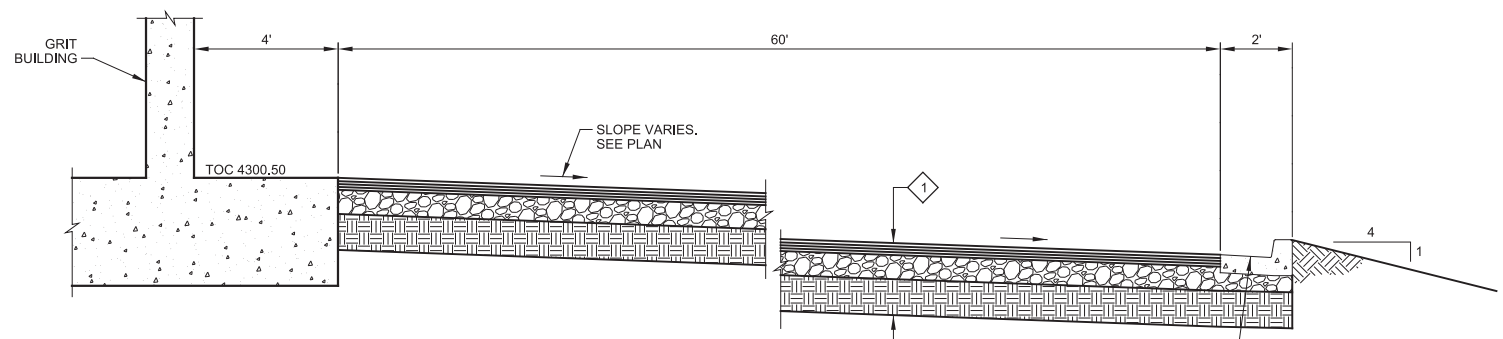
LAST SAVED BY: idonnell



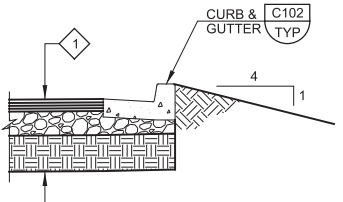
1 DETAIL
C-07 SCALE: NTS
FILE: 10548A1000C302



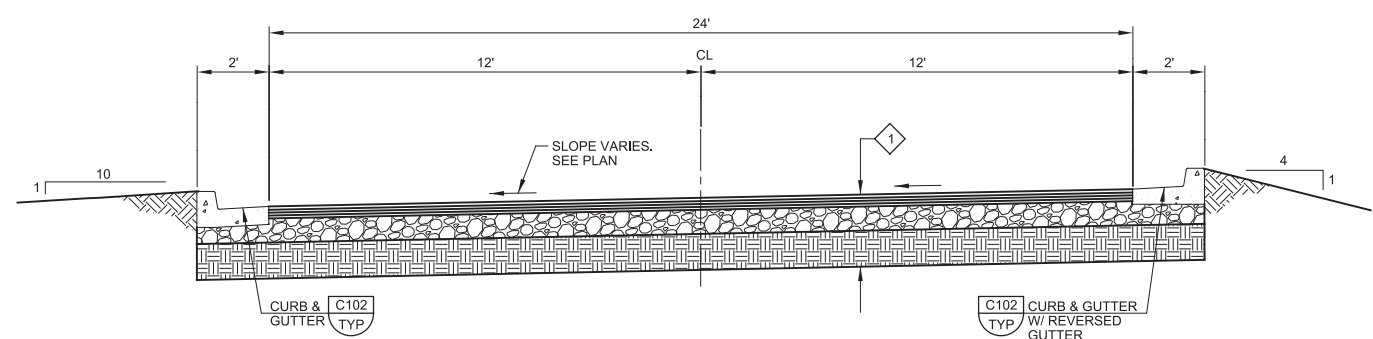
4 SECTION
GC-SC-19 SCALE: NTS
FILE: 10548A1000C302



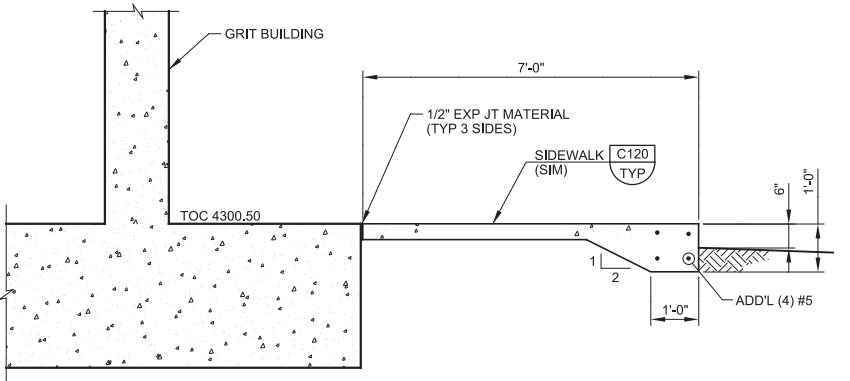
2 DETAIL
C-07 SCALE: NTS
FILE: 10548A1000C302



5 SECTION
GC-SC-19 SCALE: NTS
FILE: 10548A1000C302



3 SECTION
GC-SC-19 SCALE: NTS
FILE: 10548A1000C302

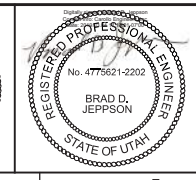


6 SECTION
GC-SC-19 SCALE: NTS
FILE: 10548A1000C302

KEY NOTES:
1 AC PAVEMENT SECTION THE SAME FOR ALL LOCATIONS: 4" AC PAVEMENT ON 8" AGGREGATE BASE COURSE ON 12" COMPACTED SUBGRADE.

REV	DATE	BY	DESCRIPTION
1			
2			
3			

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LHA
DATE
MARCH 2019



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SOUTH VALLEY WATER RECLAMATION FACILITY
PROJECT 5
CIVIL
SITE SECTIONS 2

VERIFY SCALES
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0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

JOB NO.
10548A.10
DRAWING NO.
C-08
SHEET NO.
34 OF 159

Plot Date: 27-FEB-2019 2:01:39 PM

User: svcPW

Plot Scale: 2:1

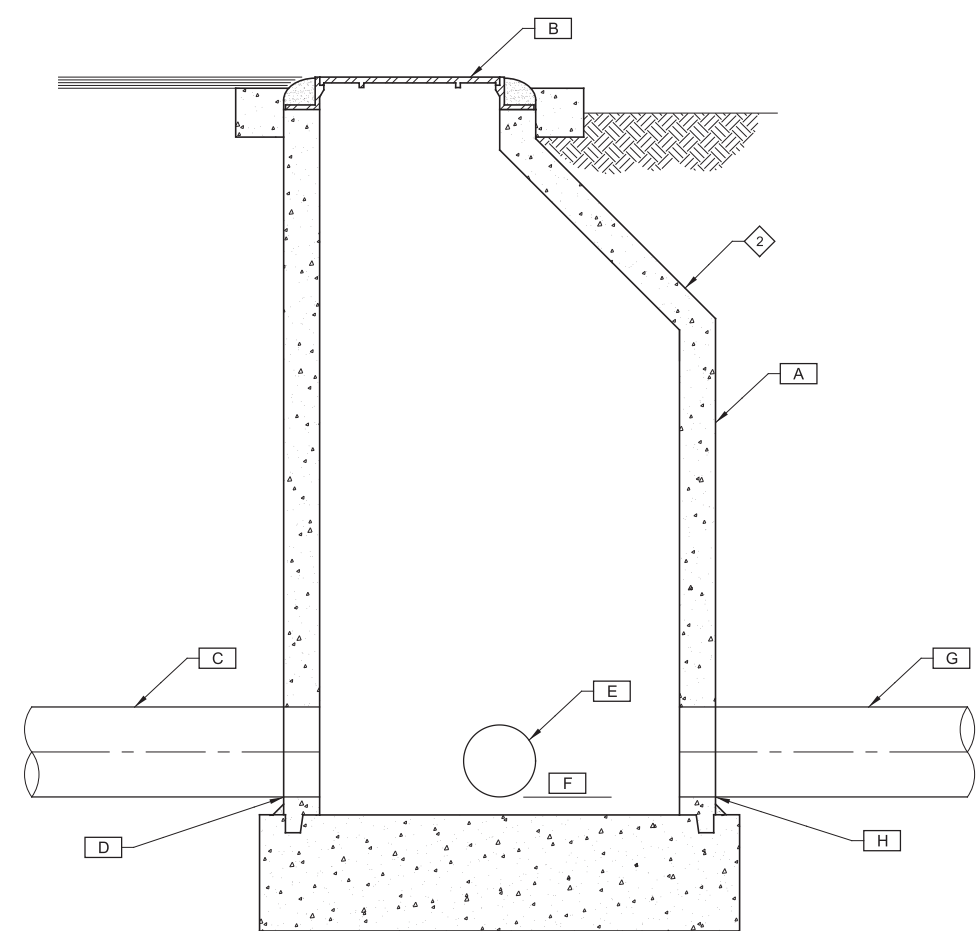
Model: Layout1

ColorTable: gshade.ctb

LAST SAVED BY: idonnell

MANHOLE TABLE														
MANHOLE No.	DIAMETER (IN) A	MATERIAL	RIM ELEV B	PIPE 1 DIAMETER (IN) C	PIPE 1 MATERIAL	PIPE 1 INVERT D	PIPE 2 DIAMETER (IN) E	PIPE 2 MATERIAL	PIPE 2 INVERT F	PIPE OUT DIAMETER (IN) G	PIPE OUT MATERIAL	PIPE OUT INVERT H	COMMENTS 1	DRAWING No.
1	72	CONCRETE	4283.05	48	RCP	4270.59	12	RCP	4274±	48	RCP	4270.59	ABI #1	GC-YP-10
2	84	CONCRETE	4283±	EXIST 60	RCP	4276.80	15	PVC	4278.8±	60	RCP	4276.80	ABI #1	GC-YP-11
3	48	CONCRETE	4285.60	12	PVC	4278.19	12	PVC	4280.00	12	PVC	4278.04	-	GC-YP-12
4	60	CONCRETE	4290±	12	RCP	4279.50	12	PVC	4279.5±	12	RCP	4279.5±	ABI #1	GC-YP-17
5	60	CONCRETE	4292±	15	RCP	4282±	12	PVC	4282±	15	RCP	4282±	ABI #1	GC-YP-18
6	48	CONCRETE	4291.00	12	PVC	4286.33	-	PVC	-	12	PVC	4280.75	-	GC-YP-19
7	60	CONCRETE	4301±	15	RCP	4282±	12	PVC	4282±	15	RCP	4282±	ABI #1	GC-YP-25

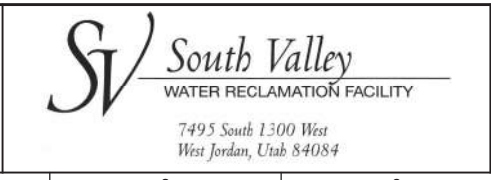
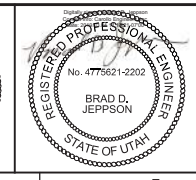
KEY NOTES:
 1 FOR ALTERNATE BID ITEMS SEE SECTION 01230 (ALTERNATES).
 2 SEE DETAIL C010/TYP FOR MANHOLE DETAILS.



SECTION

REV	DATE	BY	DESCRIPTION

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SOUTH VALLEY WATER RECLAMATION FACILITY
 PROJECT 5
 CIVIL
PRECAST MANHOLE DETAILS

VERIFY SCALES
 BAR IS ONE INCH ON ORIGINAL DRAWING
 0 1"
 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

JOB NO.
10548A.10
 DRAWING NO.
C-09
 SHEET NO.
35 OF 159

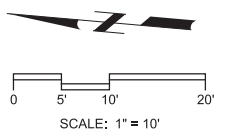
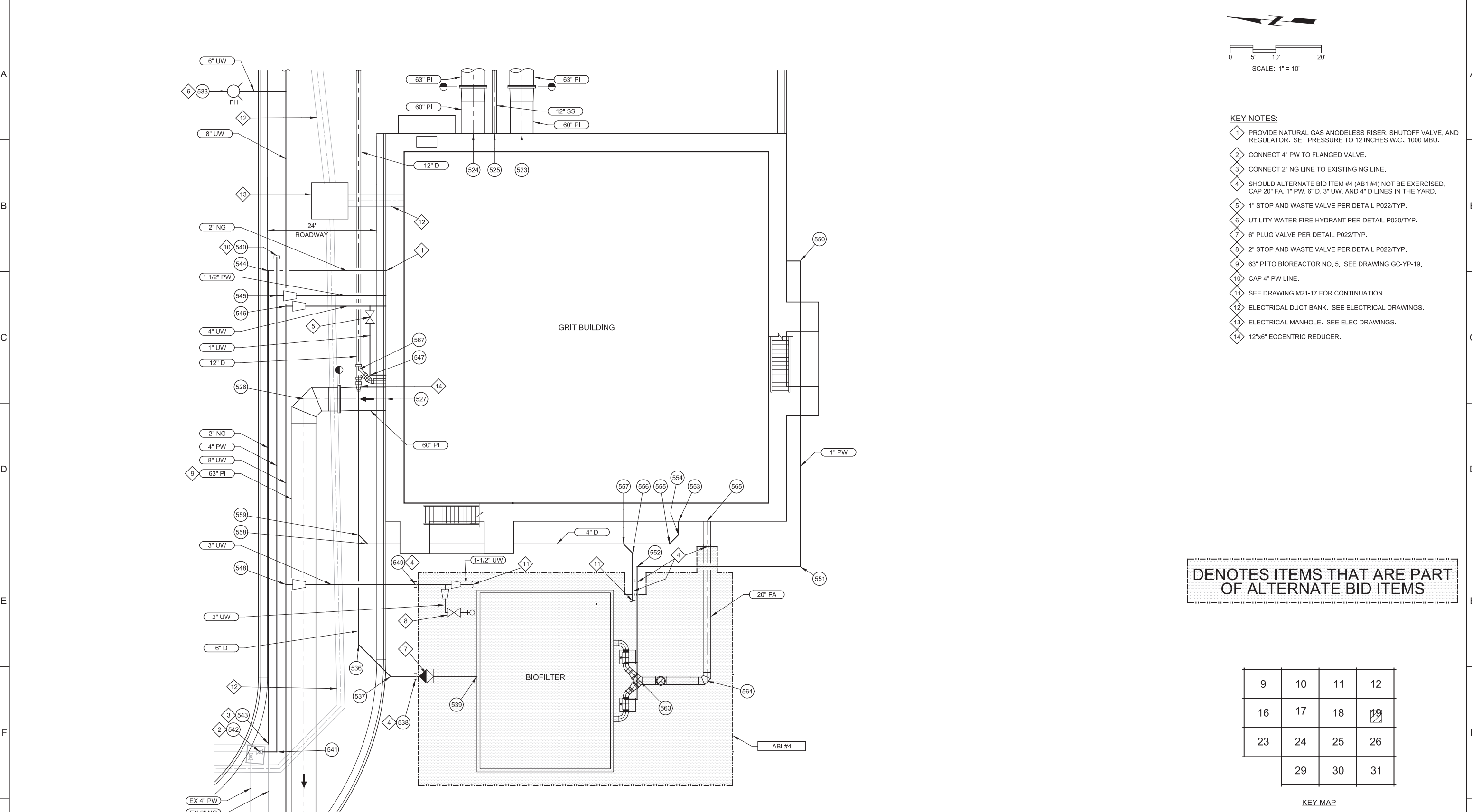
Plot Date: 27-FEB-2019 2:01:52 PM

User: svcPW

PlotScale: 2:1

LAST SAVED BY: idonnell

1 2 3 4 5 6 7 8 9 10 11 12 13



- KEY NOTES:**
- 1 PROVIDE NATURAL GAS ANODELESS RISER, SHUTOFF VALVE, AND REGULATOR. SET PRESSURE TO 12 INCHES W.C., 1000 MBU.
 - 2 CONNECT 4" PW TO FLANGED VALVE.
 - 3 CONNECT 2" NG LINE TO EXISTING NG LINE.
 - 4 SHOULD ALTERNATE BID ITEM #4 (AB1 #4) NOT BE EXERCISED, CAP 20" FA, 1" PW, 6" D, 3" UW, AND 4" D LINES IN THE YARD.
 - 5 1" STOP AND WASTE VALVE PER DETAIL P022/TYP.
 - 6 UTILITY WATER FIRE HYDRANT PER DETAIL P020/TYP.
 - 7 6" PLUG VALVE PER DETAIL P022/TYP.
 - 8 2" STOP AND WASTE VALVE PER DETAIL P022/TYP.
 - 9 63" PI TO BIOREACTOR NO. 5. SEE DRAWING GC-YP-19.
 - 10 CAP 4" PW LINE.
 - 11 SEE DRAWING M21-17 FOR CONTINUATION.
 - 12 ELECTRICAL DUCT BANK. SEE ELECTRICAL DRAWINGS.
 - 13 ELECTRICAL MANHOLE. SEE ELEC DRAWINGS.
 - 14 12"x6" ECCENTRIC REDUCER.

DENOTES ITEMS THAT ARE PART OF ALTERNATE BID ITEMS

9	10	11	12
16	17	18	19
23	24	25	26
	29	30	31

KEY MAP

6 PARTIAL YARD PIPING PLAN
 GC-YP-19 SCALE: 1" = 10'
 FILE: 10548A10 C201

REV	DATE	BY	DESCRIPTION

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SOUTH VALLEY WATER RECLAMATION FACILITY
 PROJECT 5
 CIVIL
PARTIAL YARD PIPING PLAN

VERIFY SCALES
 BAR IS ONE INCH ON ORIGINAL DRAWING
 0 1"
 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

JOB NO.
10548A.10
 DRAWING NO.
C-10
 SHEET NO.
36 OF 159

Plot Date: 27-FEB-2019 2:01:49 PM
 User: svcPW
 Model: Layout1 ColorTable: gshade.ctb DesignScript: Carollo_Std_Pen_v0905.pen PlotScale: 2:1
 LAST SAVED BY: idonnell

SURVEY CONTROL POINTS					
POINT NO.	DESCRIPTION	NORTHING	EASTING	ELEV	REMARKS / DRAWING
901	P-K NAIL AND WASHER IN CURB	1428.72	1364.58	4298.25	*RBB NO. 91 / GC-SC-19, GC-YP-19
902	P-K NAIL IN CURB	1717.24	1654.99	4288.67	*RBB NO. 7 / GC-SC-18, GC-YP-18
903	BRASS CAP IN STRUCTURE	1680.64	1384.99	4297.15	*RBB NO. 58 / GC-SC-18, GC-YP-18
904	BRASS CAP ON RETAINING WALL	2150.20	1599.70	4291.11	*RBB NO. 56 / GC-YP-17

*RBB = ROBINSON, BIEHN & BIEHN

NEW STRUCTURES					
POINT NO.	DESCRIPTION	NORTHING	EASTING	ELEV	REMARKS / DRAWING
1	NE CORNER - GRIT BUILDING FOUNDATION	1380.22	1520.63	4300.50	FINISH FLOOR ELEVATION / GC-SC-19
2	SE CORNER - GRIT BUILDING FOUNDATION	1292.56	1528.34	4300.50	FINISH FLOOR ELEVATION / GC-SC-19
3	SW CORNER - GRIT BUILDING FOUNDATION	1285.10	1443.50	4300.50	FINISH FLOOR ELEVATION / GC-SC-19
4	NW CORNER - GRIT BUILDING FOUNDATION	1372.76	1435.79	4300.50	FINISH FLOOR ELEVATION / GC-SC-19
5	NE CORNER - BIOFILTER WALL OUTSIDE CORNER	1351.52	1422.51	4300.33	TOP OF CONC WALL - FG AT WALL 4299.50 / GC-SC-19
6	NW CORNER - BIOFILTER WALL OUTSIDE CORNER	1348.01	1382.67	4300.33	TOP OF CONC WALL - FG AT WALL 4298.50 / GC-SC-19
7	SW CORNER - BIOFILTER WALL OUTSIDE CORNER	1318.13	1385.30	4300.33	TOP OF CONC WALL - FG AT WALL 4298.50 / GC-SC-19
8	SE CORNER - BIOREACTOR TRENCH DRAIN COLLECTOR BOX	2129.34	1380.70	4301.00	TOP OF CONC WALL/GRATING - ADJACENT TO EXISTING BIOREACTOR 2 / GC-YP-17
9	SW CORNER - BIOREACTOR TRENCH DRAIN COLLECTOR BOX	2128.02	1365.76	4301.00	TOP OF CONC WALL/GRATING - ADJACENT TO EXISTING BIOREACTOR 2 / GC-YP-17
10	NE CORNER - BIOREACTOR TRENCH DRAIN COLLECTOR BOX	1707.59	1417.88	4299.00	TOP OF CONC WALL/GRATING - ADJACENT TO EXISTING BIOREACTOR 4 / GC-YP-18
11	NW CORNER - BIOREACTOR TRENCH DRAIN COLLECTOR BOX	1706.28	1402.94	4299.00	TOP OF CONC WALL/GRATING - ADJACENT TO EXISTING BIOREACTOR 4 / GC-YP-18
12	NE CORNER - BIOREACTOR TRENCH DRAIN COLLECTOR BOX	1675.30	1029.63	4301.00	TOP OF CONC WALL/GRATING - ADJACENT TO EXISTING BIOREACTOR 3 / GC-YP-25
13	NW CORNER - BIOREACTOR TRENCH DRAIN COLLECTOR BOX	1673.98	1014.69	4301.00	TOP OF CONC WALL/GRATING - ADJACENT TO EXISTING BIOREACTOR 3 / GC-YP-25

GRADING, ROADWAY, STAGING					
POINT NO.	DESCRIPTION	NORTHING	EASTING	ELEV	REMARKS / DRAWING
100	MATCH EXISTING PAVEMENT / SAW CUT LINE	1618.72	1654.37	4288.54±	PAVEMENT AT EXISTING GUTTER / GC-SC-18
101	MATCH EXISTING PAVEMENT / SAW CUT LINE	1617.21	1678.51	4288.53±	PAVEMENT AT EXISTING GUTTER / GC-SC-18
102	ANGLE POINT - TOP BACK OF CURB (TBC)	1607.13	1680.56	4289.13	TBC / GC-SC-18
103	MATCH EXISTING PAVEMENT / SAW CUT LINE	1593.36	1622.08	4289.26	PAVEMENT AT EXISTING GUTTER / GC-SC-18
104	MATCH EXISTING PAVEMENT / SAW CUT LINE	1581.60	1622.72	4289.26	PAVEMENT AT EXISTING GUTTER, BEGIN CURVE / GC-SC-19
105	RADIUS POINT / TBC	1554.64	1624.18	--	$\Delta = 93^{\circ}06'12"$, R=25.00', L=42.18' (TBC) / GC-SC-19
106	TBC - END CURVE	1553.08	1649.13	4288.61	TBC / GC-SC-19
107	TBC - BEGIN CURVE	1463.54	1643.54	4292.28	TBC / GC-SC-19
108	RADIUS POINT / TBC	1465.78	1591.64	--	$\Delta = 81^{\circ}24'00"$, R=52.00' & 80.00', L=73.88' & 107.04' (TBC) / GC-SC-19
109	TBC - END CURVE	1414.98	1596.20	4296.82	TBC / GC-SC-19
110	TBC - BEGIN CURVE	1461.79	1671.49	4292.90	TBC / GC-SC-19
111	TBC - END CURVE, BEGIN CURVE	1387.94	1605.21	4297.10	TBC - POINT OF COMPOUND CURVATURE / GC-SC-19
112	RADIUS POINT / TBC	1363.30	1609.45	--	$\Delta = 85^{\circ}15'44"$, R=25.00', L=37.20' (TBC) / GC-SC-19
113	TBC - END CURVE	1361.11	1584.55	4298.39	TBC / GC-SC-19
114	TBC CORNER	1297.99	1590.10	4299.16	TBC / GC-SC-19
115	TBC - HIGH POINT (HPT)	1404.39	1475.75	4300.02	TBC - HIGH POINT / GC-SC-19
116	TBC - BEGIN CURVE	1397.64	1399.03	4298.96	TBC / GC-SC-19
117	RADIUS POINT / TBC	1429.51	1396.22	--	$\Delta = 90^{\circ}03'34"$, R=32.00', L=50.30' TBC / GC-SC-19
118	TBC - END CURVE	1426.74	1364.34	4298.27	TBC / GC-SC-19
119	TBC END	1427.75	1364.26	4298.26	TBC / GC-SC-19
120	TBC - BEGIN CURVE	1370.10	1405.47	4299.88	TBC / GC-SC-19
121	RADIUS POINT / TBC	1429.86	1400.21	--	$\Delta = 90^{\circ}03'34"$, R=60.00', L=94.31' TBC / GC-SC-19
122	TBC - END CURVE	1424.67	1340.43	4298.31	TBC / GC-SC-19
123	TBC	1551.33	1677.08	4289.25	TBC / GC-SC-19

MANHOLES, CATCH BASINS, YARD PIPING					
POINT NO.	DESCRIPTION	NORTHING	EASTING	ELEV	REMARKS / DRAWING
500	MANHOLE #1	2213.86	1852.48	--	DWG GC-YP-10 AND MANHOLE TABLE ON DWG C-09
501	MANHOLE #2	1661.99	1812.81	--	DWG GC-YP-11 AND MANHOLE TABLE ON DWG C-09
502	MANHOLE #3	1459.88	1704.40	--	DWG GC-YP-12 AND MANHOLE TABLE ON DWG C-09
503	MANHOLE #4	2161.85	1406.12	--	DWG GC-YP-17 AND MANHOLE TABLE ON DWG C-09
504	MANHOLE #5	1635.60	1532.12	--	DWG GC-YP-18 AND MANHOLE TABLE ON DWG C-09
505	MANHOLE #6	1365.50	1625.28	--	DWG GC-YP-19 AND MANHOLE TABLE ON DWG C-09
506	MANHOLE #7	1594.90	1113.52	--	DWG GC-YP-25 AND MANHOLE TABLE ON DWG C-09
507	CATCH BASIN AT GUTTER	1551.05	1650.93	4288.19	TOP OF GRATING / GC-SC-19, GC-YP-19 AND C-06
508	CATCH BASIN	1521.07	1613.91	4286.70	TOP OF GRATING / GC-SC-19, GC-YP-19 AND C-06
509	EXISTING MANHOLE	2192.25	1719.18	4285.63±	EXISTING RIM / GC-YP-10
510	EXISTING MANHOLE	1469.59	1814.81	4284.25±	EXISTING RIM / GC-YP-12
511	EXISTING MANHOLE	2199.78	1598.95	4287.61±	EXISTING RIM / GC-YP-17
512	EXISTING MANHOLE	1651.31	1686.46	4286.65±	EXISTING RIM / GC-YP-18
513	EXISTING MANHOLE	1634.57	1640.84	4289.26±	EXISTING RIM / GC-YP-18
514	CONNECT 12" UW TO EX 12" UW AT EXISTING VALVE	1683.66	1679.47	4288.14±	EXISTING RIM / GC-YP-18
515	CONNECT 54" PI TO EXISTING 54" PI	1700.86	1585.57	--	DWG GC-YP-18
516	CONNECT 54" PI TO EXISTING 54" PI	1774.81	1562.98	--	DWG GC-YP-18 AND C-04
517	63" FI - 90° BEND (APPROX LOCATION)	1700.52	1581.47	--	DWG GC-YP-18 AND C-04
518	12" SD - 45° BEND	1551.23	1648.02	--	INVERT / DWG GC-YP-19 AND C-06
519	12" SD - 22.5° BEND	1491.32	1640.15	4282.04	INVERT / DWG GC-YP-19 AND C-06
520	EXISTING MANHOLE	1437.31	1629.10	4285.42±	EXISTING RIM / GC-YP-19
521	63" PI - 90° BEND	1358.28	1611.57	4283.37	CENTERLINE / GC-YP-19 AND C-04
522	63" PI - 90° BEND	1367.86	1598.78	4283.37	CENTERLINE / GC-YP-19 AND C-04
523	60" PI AT GRIT BLDG FOUNDATION	1350.51	1523.24	4289.50	CENTERLINE / C-10 AND C-04
524	60" PI AT GRIT BLDG FOUNDATION	1361.13	1522.31	4289.50	CENTERLINE / C-10 AND C-04
525	12" SS AT GRIT BLDG FOUNDATION	1356.48	1522.72	4294.06	INVERT / C-10 AND C-05
526	63" PI - 90° BEND	1393.04	1460.95	4287.00	INVERT / GC-YP-19, C-10 AND C-03
527	60" PI AT GRIT BLDG FOUNDATION	1375.11	1462.52	4287.00	INVERT / GC-YP-19, C-10 AND C-03
528	63" PI - 90° BEND	1383.26	1349.67	4286.11	INVERT / GC-YP-19 AND C-03
529	54" PI - 54° TEE	1496.87	1339.68	4285.00	INVERT / GC-YP-19 AND C-03
530	54" PI - 90° BEND	1576.58	1332.67	4285.00	INVERT / GC-YP-19 AND C-03
531	54" PI - 90° BEND	1574.74	1311.71	4285.00	INVERT / GC-YP-26 AND C-03
532	8" UW AT EXISTING VALVE	1409.85	1365.20	4298.05±	EXISTING RIM / GC-YP-19
533	UTILITY WATER FIRE HYDRANT	1414.37	1526.95	--	EXISTING RIM - MAINTAIN 3' COVER MIN / C-10
534	12" D - 45° BEND	1388.33	1544.34	4290.78	INVERT / GC-YP-19
535	12" D - 12" WYE	1361.23	1576.68	4290.02	INVERT / GC-YP-19
536	6" D - 45° BEND	1376.37	1408.28	4292.57	INVERT / C-10
537	6" D - 45° BEND	1368.78	1401.92	4292.58	INVERT / C-10
538	6" D - CAP (IF ABI #4 NOT EXERCISED)	1363.31	1402.40	4292.59	INVERT / C-10
539	6" D AT BIOFILTER WALL	1349.85	1403.59	4292.60	INVERT / C-10
540	4" PW - CAP	1401.70	1491.47	--	MAINTAIN 3' COVER MIN / C-10
541	4" PW - 90° BEND (APPROX)	1392.18	1383.20	--	MAINTAIN 3' COVER MIN / C-10
542	4" PW CONNECTION AT EXISTING VALVE	1395.96	1392.87	4297.83±	EXISTING RIM - MAINTAIN 3' COVER MIN / C-10
543	2" NG CONNECTION (APPROX)	1394.15	1384.76	--	DWG C-10
544	2" NG - 90° BEND	1403.26	1488.32	--	DWG C-10
545	4" PW - 4" x 4" x 2" TEE	1400.96	1483.00	--	MAINTAIN 3' COVER MIN / C-10
546	8" UW - 8" x 8" x 4" TEE	1398.77	1480.93	--	MAINTAIN 3' COVER MIN / C-10
547	1" UW - 90° BEND	1379.06	1467.46	--	MAINTAIN 3' COVER MIN / C-10
548	8" UW - 8" x 8" x 3" TEE	1393.41	1420.00	--	MAINTAIN 3' COVER MIN / C-10
549	8" UW - CAP (IF ABI #4 NOT EXERCISED)	1365.08	1422.49	--	MAINTAIN 3' COVER MIN / C-10
550	1" PW - 90° BEND	1287.12	1500.71	--	MAINTAIN 3' COVER MIN / C-10
551	1" PW - 90° BEND	1281.24	1433.80	--	MAINTAIN 3' COVER MIN / C-10
552	1" PW - 90° BEND	1316.93	1430.66	--	MAINTAIN 3' COVER MIN / C-10
553	4" D AT GRIT BLDG FOUNDATION	1304.03	1441.84	4293.70	INVERT / C-10
554	4" D - 45° BEND	1303.76	1438.84	4293.65	INVERT / C-10
555	4" D - 45° BEND	1305.58	1436.68	4293.61	INVERT / C-10
556	4" D - 45° BEND	1318.19	1433.56	4293.52	INVERT / C-10
557	4" D - WYE	1320.36	1435.38	4293.46	INVERT / C-10
558	4" D - 45° BEND	1376.31	1430.46	4292.60	INVERT / C-10
559	6" D - WYE	1378.48	1432.27	4292.56	INVERT / C-10
560	EXISTING MANHOLE	1642.55	1826.96	4283.19±	EXISTING RIM / GC-YP-11
561	EXISTING MANHOLE	1649.92	1812.16	4282.97±	EXISTING RIM / GC-YP-11
562	8" UW - 90° BEND	1388.75	1367.06	--	MAINTAIN 3' COVER MIN / GC-YP-19
563	20" FA - WYE	1314.19	1405.72	4295.08	INVERT / C-10
564	20" FA - 90° BEND	1299.46	1407.02	4294.88	INVERT / C-10
565	20" FA - AT GRIT BLDG FOUNDATION	1302.53	1441.97	4294.42	INVERT / C-10
566	CENTER - ELECTRICAL MANHOLE	1391.18	1504.84	--	--
567	12" D - 12" WYE	1381.66	1468.47	4291.97	INVERT / C-10
568	54" PI - 54° WYE	1769.08	1563.49	4277.40±	INVERT / GC-YP-18 AND C-04

DESIGNED RWB						SOUTH VALLEY WATER RECLAMATION FACILITY		VERIFY SCALES BAR IS ONE INCH ON ORIGINAL DRAWING 0  1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	JOB NO. 10548A.10
DRAWN TSD						PROJECT 5			DRAWING NO. C-11
CHECKED LHA		CIVIL		SHEET NO.		SITE COORDINATES		37 OF 159	
REV	DATE	BY	DESCRIPTION						
1									