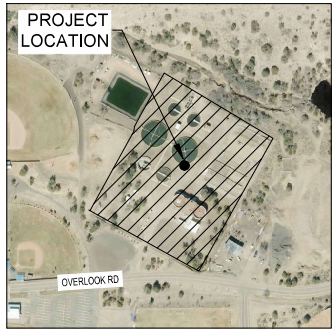
CONSTRUCTION SET
FOR
WHITE ROCK WATER RESOURCE RECOVERY FACILITY IMPROVEMENTS
LOS ALAMOS, NEW MEXICO
APRIL 2021

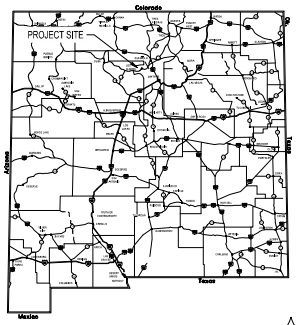


VICINITY MAP

1. DESIGN PROFESSIONALS
   A.) PRIME DESIGN PROFESSIONAL : TODD BURT, BOHANNAN HUSTON INC.
   B.) ARCHITECT: ROSS SMALL, ARCHITECT STUDIOS
   C.) STRUCTURAL ENGINEER: MATT BEAN, BOHANNAN HUSTON INC.
   D.) ELECTRICAL ENGINEER: MARK JEPPSEN , SKM
   E.) MECHANICAL ENGINEER: JUSTIN LOGAN, AQUA ENGINEERING
   F.) PROCESS ENGINEER: JUSTIN LOGAN, AQUA ENGINEERING

2. DESIGN CRITERIA:
   A.) TYPE OF BUILDING CONSTRUCTION: TYPE IIB
   B.) TOTAL BUILDING SQUARE FOOTAGE:
      HEADWORKS: 1440 SF
      OXIDATION DITCH: 7290 SF
      SECONDARY CLARIFIER: 2840 SF
      UV/TERTIARY BUILDING: 3410 SF
      ADMIN./DEWATERING BUILDING: 4330 SF
      SOLIDS LOADING FACILITY: 1040 SF
      CHEMICAL FEED AND STORAGE BUILDING: 120 SF
      HYPOCHLORITE GENERATION BUILDING: 231 SF
   C.) LAND USE ZONE: PUBLIC LAND DISTRICT
   D.) LOCATION ON PROPERTY: WHITE ROCK, NEW MEXICO
   E.) SEISMIC LOCATION: C PER ASCE 7-10 & IBC 2015
   F.) REFER TO DRAWING G-003 FOR CODE ANALYSIS

3. SITE ADDRESS:
   OVERLOOK DRIVE
   WHITE ROCK, NM 87547



NEW MEXICO

N

LOS ALAMOS
where discoveries are made

ENGINEERS STAMP & SIGNATURE

TODD A. BURT
NEW MEXICO
16654
LICENSED PROFESSIONAL ENGINEER

Bohannan Huston
www.bhinc.com 800.877.5332

AQUA ENGINEERING
533 W 2600 S, SUITE 275, BOUNTIFUL, UT 84010
PHONE (801) 299-1327 FAX (801) 299-0153

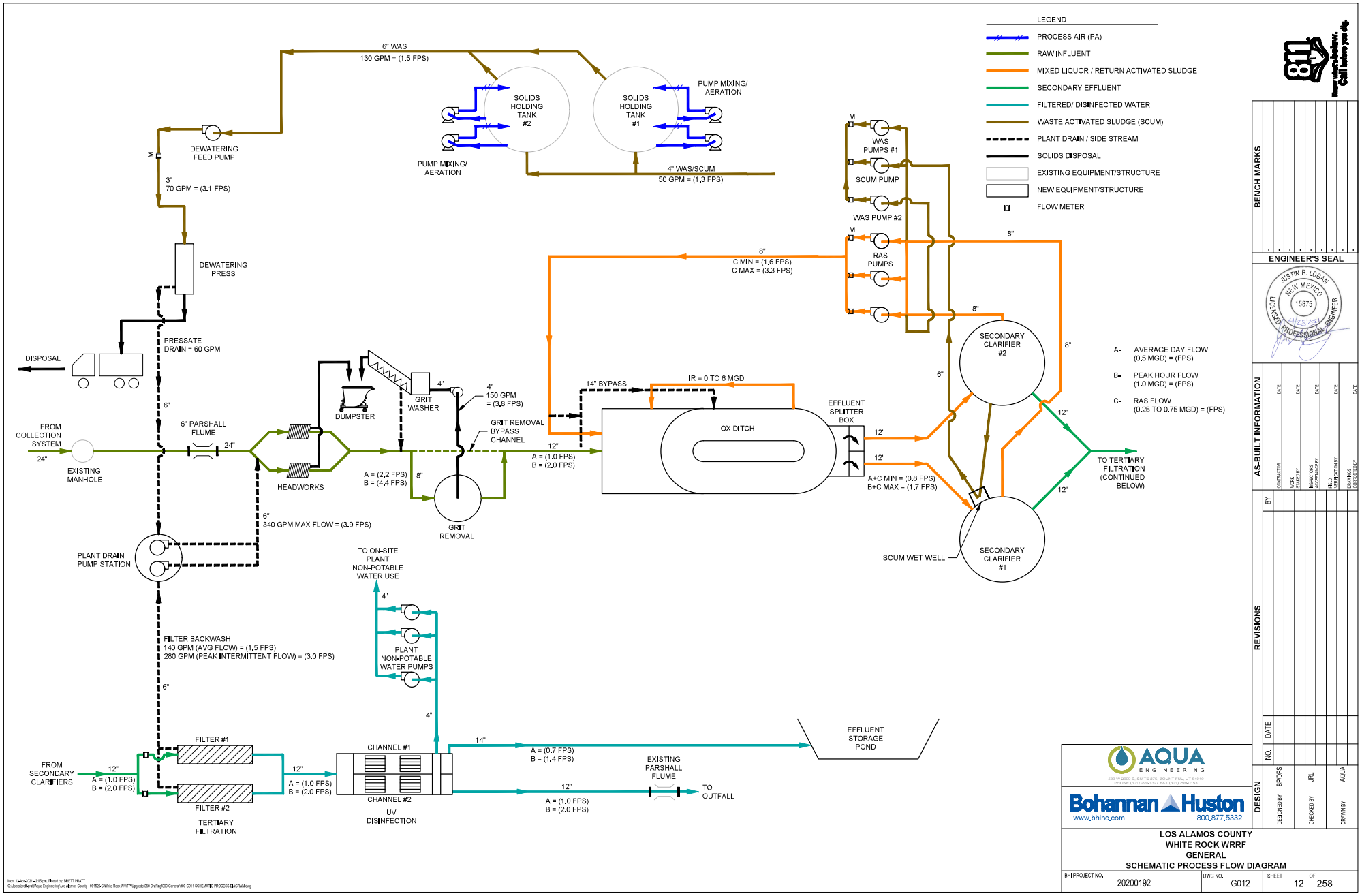
LOS ALAMOS COUNTY PUBLIC WORKS
DEPARTMENT OF PUBLIC UTILITIES
CWSRF#

DATE

LOS ALAMOS COUNTY
WHITE ROCK WRRF
GENERAL
TITLE PAGE, PROJECT LOCATION, AND VICINITY MAPS

BHI PROJECT NO.	DWG NO.	SHEET	OF
20200192	G001	1	258

Wed, 28-Apr-2021 - 5:00 pm, Plotted by: INCHAUSE
P:\20200192\WRRDesign\plans\G001_Cover_Sheet.dwg


LEGEND
PROCESS AIR (PA)
RAW INFLUENT
MIXED LIQUOR / RETURN ACTIVATED SLUDGE
SECONDARY EFFLUENT
FILTERED/ DISINFECTED WATER
WASTE ACTIVATED SLUDGE (SCUM)
PLANT DRAIN / SIDE STREAM
SOLIDS DISPOSAL
EXISTING EQUIPMENT/STRUCTURE
NEW EQUIPMENT/STRUCTURE
FLOW METER
6" WAS
130 GPM = (1.5 FPS)
SOLIDS HOLDING TANK #2
SOLIDS HOLDING TANK #1
PUMP MIXING/ AERATION
PUMP MIXING/ AERATION
4" WAS/SCUM
50 GPM = (1.3 FPS)
DEWATERING FEED PUMP
3"
70 GPM = (3.1 FPS)
DEWATERING PRESS
PRESSATE DRAIN = 60 GPM
DISPOSAL
WAS PUMPS #1
SCUM PUMP
WAS PUMP #2
RAS PUMPS
8"
C MIN = (1.6 FPS)
C MAX = (3.3 FPS)
SECONDARY CLARIFIER #2
A- AVERAGE DAY FLOW (0.5 MGD) = (FPS)
B- PEAK HOUR FLOW (1.0 MGD) = (FPS)
C- RAS FLOW (0.25 TO 0.75 MGD) = (FPS)
FROM COLLECTION SYSTEM
24"
EXISTING MANHOLE
6" PARSHALL FLUME
HEADWORKS
DUMPSTER
GRIT WASHER
4"
150 GPM = (3.8 FPS)
GRIT REMOVAL BYPASS CHANNEL
A = (2.2 FPS)
B = (4.4 FPS)
GRIT REMOVAL
14" BYPASS
IR = 0 TO 6 MGD
OX DITCH
EFFLUENT SPLITTER BOX
A = (1.0 FPS)
B = (2.0 FPS)
A+C MIN = (0.8 FPS)
B+C MAX = (1.7 FPS)
TO TERTIARY FILTRATION (CONTINUED BELOW)
SCUM WET WELL
SECONDARY CLARIFIER #1
6"
340 GPM MAX FLOW = (3.9 FPS)
PLANT DRAIN PUMP STATION
TO ON-SITE PLANT NON-POTABLE WATER USE
PLANT NON-POTABLE WATER PUMPS
FILTER BACKWASH
140 GPM (AVG FLOW) = (1.5 FPS)
280 GPM (PEAK INTERMITTENT FLOW) = (3.0 FPS)
FROM SECONDARY CLARIFIERS
A = (1.0 FPS)
B = (2.0 FPS)
FILTER #1
FILTER #2
TERTIARY FILTRATION
CHANNEL #1
CHANNEL #2
UV DISINFECTION
14"
A = (0.7 FPS)
B = (1.4 FPS)
EFFLUENT STORAGE POND
EXISTING PARSHALL FLUME
TO OUTFALL
BENCH MARKS
ENGINEER'S SEAL
JUSTIN R. LOGAN
NEW MEXICO
15875
LICENSED PROFESSIONAL ENGINEER
AS-BUILT INFORMATION
CONTRACTOR
WORK STAKED BY
INSPECTOR'S ACCEPTANCE BY
FIELD VERIFICATION BY
DRAWINGS CORRECTED BY
DATE
REVISIONS
NO.
DATE
BY
DESIGN
DESIGNED BY BPTOPS
CHECKED BY JRL
DRAWN BY AQUA
AQUA ENGINEERING
Bohannan Huston
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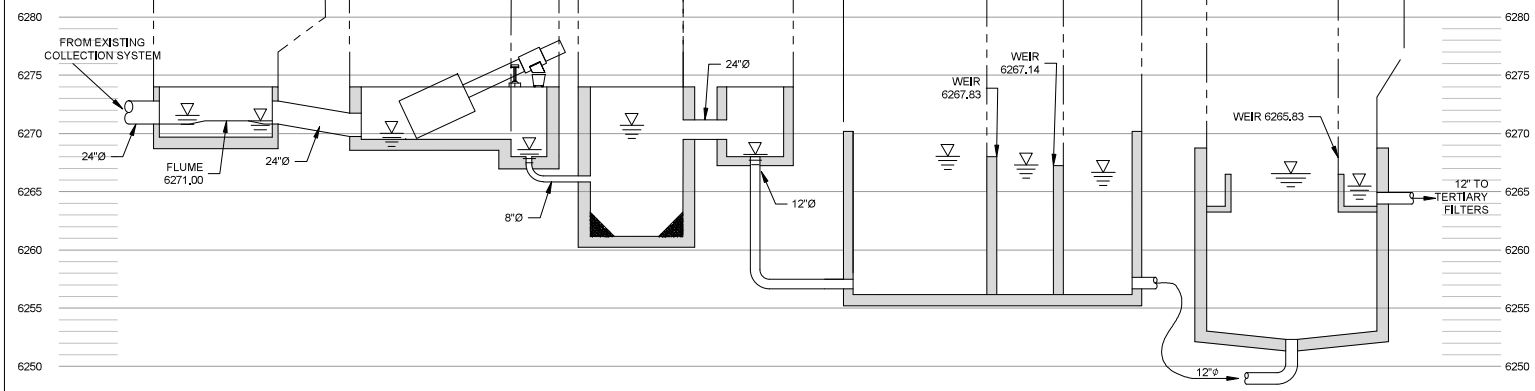
LOS ALAMOS COUNTY
WHITE ROCK WRRF
GENERAL
SCHEMATIC PROCESS FLOW DIAGRAM
BHI PROJECT NO. 20200192
DWG NO. G012
SHEET 12 OF 258

	PARSHALL FLUME		SCREENS *		GRIT TRAP *		OXIDATION DITCH	SPLITTER BOX		SECONDARY CLARIFIERS	
A	6271.54	6271.08	6270.02	6268.61	6268.55	6268.14	6267.97	6267.28	6265.95	6265.88	6264.51
B	6271.83	6271.21	6271.07	6271.01	6269.83	6269.21	6268.06	6267.50	6266.81	6265.92	6265.07**
TOP OF WALL	6274.00±		6274.00				6270.17			6268.75	
FINISHED FLOOR	-		6269.50	6268.00	6261.17	6268.00	6256.17			6251.92	N/A



LEGEND:
A = AVERAGE FLOW (0.5 MGD)
B = PEAK HOURLY FLOW (1.0 MGD)

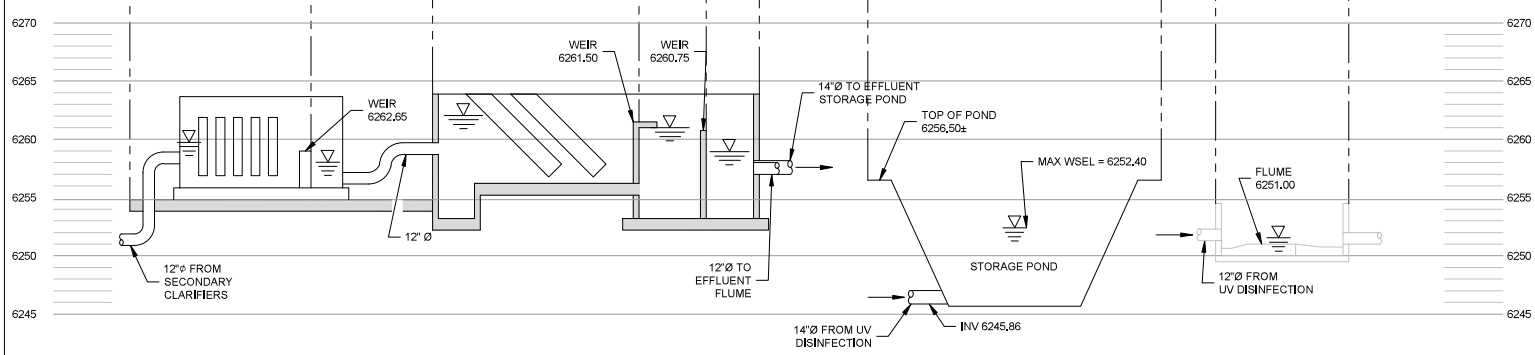
* INCLUDING AVERAGE RETURN FLOW OF 140 GPM AND PEAK RETURN FLOW OF 280 GPM

** NOTE THAT THE MAX WSEL IS 6265.59 AND OCCURS WHEN FLOW IS ROUTED THROUGH THE TERTIARY FILTERS OVERFLOW

*** WSEL FOR EFFLUENT DISCHARGE TO EFFLUENT STORAGE PONDS. (1) WSEL FOR FUTURE DISCHARGE TO EXISTING TRICKLING FILTERS (2)

	A	B	NOTE
(1)	6252.60	6252.99	-
(2)	6260.21	6260.64	MAX WSEL 6260.00

	TERTIARY FILTERS		UV DISINFECTION ***			STORAGE POND	EFFLUENT FLUME
A	6264.37	6261.65	6261.54	6260.97	6251.68	-	6251.54
B	6264.54	6262.02	6261.58	6261.09	6252.35	-	6251.83
TOP OF WALL	6266.58		6263.88			-	6254.50
FINISHED FLOOR	6255.33		6253.21	6256.21	6251.55	-	-



HYDRAULIC PROFILE

Mon, 29-Jun-2021 - 1:34 pm; Plotted by: CODY LUNTER
C:\Users\cody.lunter\Aqua Engineering\Los Alamos County - 200125-C White Rock WWTP (Upgrade)\00-Drafting\00-General\00-G012 HYDRAULIC PROFILE.dwg

Know what's below. Call before you dig. 811

BENCH MARKS

ENGINEER'S SEAL

JUSTIN R. LOGAN NEW MEXICO 15875 LICENSED PROFESSIONAL ENGINEER 06/29/21

AS-BUILT INFORMATION

	DATE
CONTRACTOR	DATE
WORK STAKED BY	DATE
INSPECTOR'S ACCEPTANCE BY	DATE
FIELD VERIFICATION BY	DATE
DRAWINGS CORRECTED BY	DATE

REVISIONS

NO.	DATE	BY

DESIGN

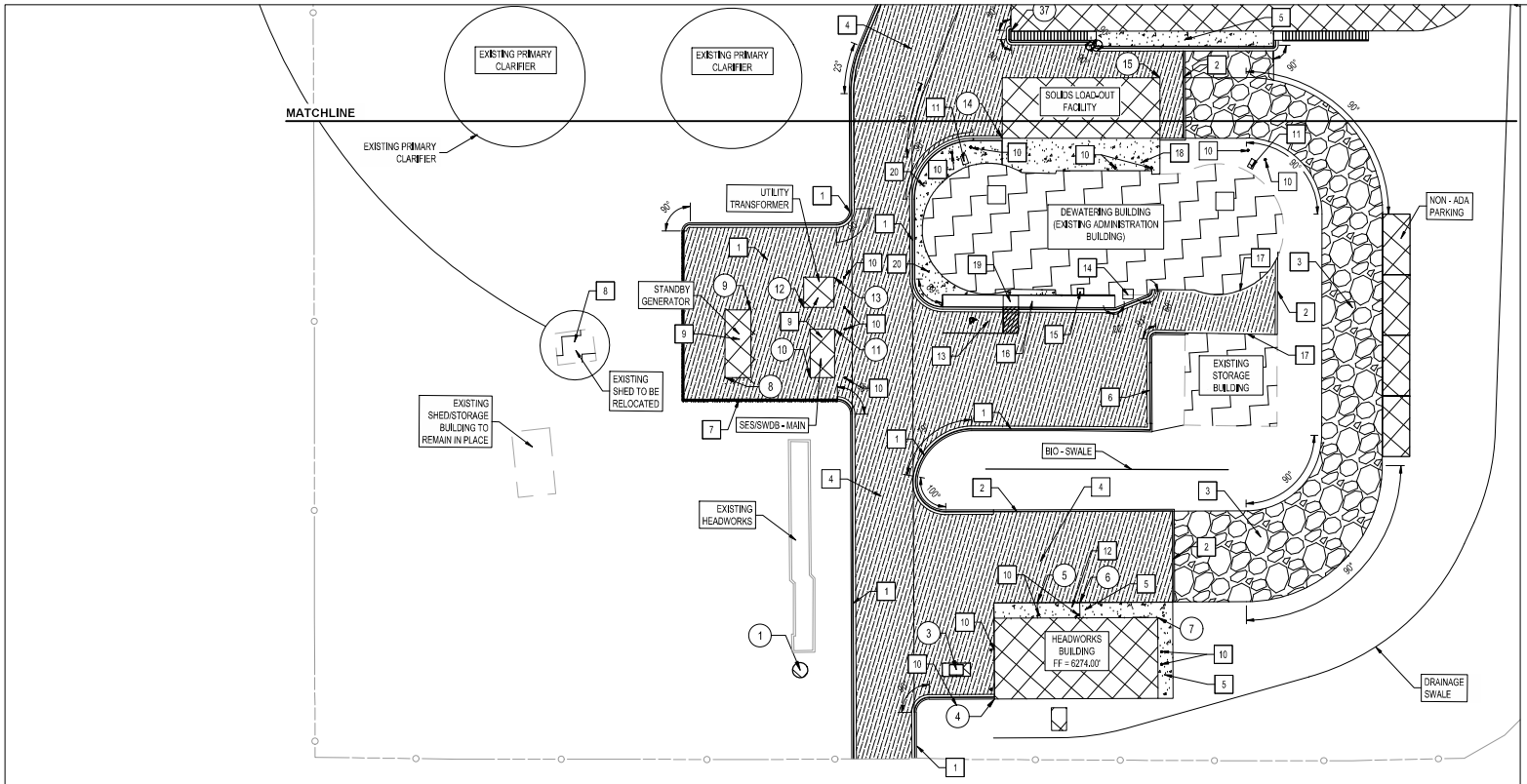
DESIGNED BY	DCS
CHECKED BY	JRL
DRAWN BY	AQUA

AQUA ENGINEERING
5301 W. ARIES S., SUITE 215, MOUNTAIN LAKES, NJ 07046
PHONE 800.1.LEBACSY | FAX 800.1.LEBACSY

Bohannan Huston
www.bhinc.com 800.877.5332

LOS ALAMOS COUNTY
WHITE ROCK WRRF
GENERAL
HYDRAULIC PROFILE

BHI PROJECT NO.	DWG NO.	SHEET	OF
20200192	G013	13	258



GENERAL NOTES

1. WORK IS WITHIN AN EXISTING FACILITY SITE. THE EXISTING FACILITIES MUST REMAIN OPERATIONAL UNTIL THE NEW FACILITIES ARE ACCEPTED TO DISCHARGE EFFLUENT OFF-SITE.
2. THE CONTRACTOR SHALL COORDINATE ACTIVITIES WITH THE LOS ALAMOS COUNTY STAFF TO ALLOW THE COUNTY ACCESS FOR OPERATION AND MAINTENANCE OF THE FACILITIES THROUGHOUT THE CONSTRUCTION DURATION.
3. ANY ACTIVITY PROHIBITING ACCESS SHALL BE COORDINATED WITH THE COUNTY STAFF AT WITH AT LEAST SEVEN (7) DAYS NOTICE.
4. NON-ADA PARKING SPOTS HAVE BEEN SHOWN FOR REFERENCE. SPOTS SHALL NOT BE MARKED IN THE FIELD.

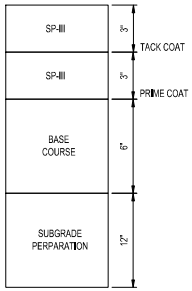
KEYED NOTES

1. REMOVE AND REPLACE WITH MEDIAN CURB AND GUTTER PER NMPWSS STD DWG. 2415B.
2. INSTALL CUT-OFF-WALL PER NMPWSS STD DWG. 2415B.
3. INSTALL GRAVEL ROAD. PER DETAIL 2 ON THIS DWG.
4. INSTALL ASPHALT ROAD. PER DETAIL 1 ON THIS DWG.
5. INSTALL 5 FOOT WIDE SIDEWALK PER NMPWSS STD DWG 2430.
6. TIE NEW ASPHALT TO EXISTING CONCRETE RAMP.
7. INSTALL SOUND WALL SEE SHEET 50S202.
8. RELOCATE EXISTING BUILDING. REFER TO DWG 1C202 FOR APPROXIMATE LOCATION. CONSTRUCT NEW CONCRETE PAD, 10 FT X 12 FT X 1 FT THICK WITH #4 @12 INCH O.C. EACH WAY. PLACE TOP OF CONCRETE PAD 4 INCHES ABOVE GRADE.
9. INSTALL EXTENDED MECHANICAL PAD, PER DETAIL 2 ON SHEET S902.
10. INSTALL BOLLARD (STATIONARY POST) PER NMPWSS STD. DWG. 2250.
11. SLUDGE MIXING/AERATING PUMP PAD, SEE SHEET 40M201.
12. INSTALL CONCRETE APRON PER DETAIL C121, SHEET C908.
13. ADA PARKING SPOT, PER PRO-WAG, LATEST EDITION.
14. AC CONDENSER UNIT.
15. ADMINISTRATION BUILDING TRANSFORMER.
16. INSTALL 4 FOOT WIDE SIDEWALK PER NMPWSS STD DWG 2430.
17. EXTEND ASPHALT TO STRUCTURE.
18. INSTALL CONCRETE APPROACH PER DETAIL. DWG, C121.
19. INSTALL WHEEL CHAIR ACCESS RAMP PER NMPWSS STD. DWG 2440 AND 2441.
20. INSTALL STD DWG 2430 CONCRETE TO STRUCTURE.

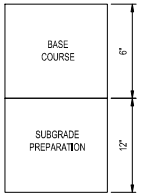
LEGEND

- EXISTING STRUCTURE TO BE RE-PURPOSED
- PROPOSED NEW STRUCTURE.
- PROPOSED NEW CONCRETE.
- PROPOSED NEW GRAVEL PER DETAIL 2, THIS DWG, BID ALTERNATE A, ASPHALT PER DETAIL 1, THIS DWG.
- PROPOSED NEW ASPHALT PER DETAIL 1, THIS DWG.

Point Table			
○	EASTING	NORTHING	DESCRIPTION
1	1660167.12	1756818.26	MANHOLE, INSTALL PER NMPWSS STD. DWG. 2101
2	NOT USED	NOT USED	NOT USED
3	1660212.38	1756793.64	PLANT INFLUENT METER VAULT, SEE SHEET 01C701
4	1660218.76	1756779.17	HEADWORKS BUILDING, SEE SHEETS 10A201 - 10P201
5	1660246.45	1756800.17	INSTALL CONCRETE APRON PER DETAIL C121, SHEET C908
6	1660258.76	1756793.50	INSTALL CONCRETE APRON PER DETAIL C121, SHEET C908
7	1660278.94	1756776.87	HEADWORKS BUILDING, SEE SHEETS 10A201 - 10P201
8	1660191.75	1756914.89	STANDBY GENERATOR, SEE I & C AND ELECTRICAL SHEETS
9	1660209.96	1756930.45	STANDBY GENERATOR, SEE I & C AND ELECTRICAL SHEETS
10	1660216.39	1756901.40	SES/SWDB - MAIN, SEE I & C AND ELECTRICAL SHEETS
11	1660231.09	1756911.60	SES/SWDB - MAIN, SEE I & C AND ELECTRICAL SHEETS
12	1660225.62	1756922.78	UTILITY TRANSFORMER, SEE I & C AND ELECTRICAL SHEETS
13	1660239.20	1756926.75	UTILITY TRANSFORMER, SEE I & C AND ELECTRICAL SHEETS
14	1660309.95	1756940.26	SOLIDS LOADING FACILITY, SEE SHEETS 44S201 - 44M401
15	1660365.17	1756932.89	SOLIDS LOADING FACILITY, SEE SHEETS 44S201 - 44M401



1 **ASPHALT SECTION**
SCALE: NTS



2 **GRAVEL SECTION**
SCALE: NTS

BENCH MARKS
UNITS: US SURVEY FOOT
HORIZONTAL DATUM: NAD_83(2011)(EPOCH:2010.000)
VERTICAL DATUM:NAVD88
PROJECTION: TRANSVERSE MERCATOR
STATE PLANE AND/OR UTM ZONE: NM CENTRAL (3002)
BASIS OF BEARING: GRID BEARINGS
PROJECT COMBINED FACTOR:
0.09990092 BASED ON POINT BH 20-192-01

ENGINEER'S SEAL
TODD A. BURT
NEW MEXICO
16654
LICENSED PROFESSIONAL ENGINEER
04/26/21

AS-BUILT INFORMATION
CONTRACTOR — DATE
WORK STAKED BY — DATE
INSPECTORS ACCEPTANCE BY — DATE
FIELD VERIFICATION BY — DATE
DRAWINGS CORRECTED BY — DATE

REVISIONS

NO.	DATE	BY

DESIGN
DESIGNED BY CEM
CHECKED BY TAB
DRAWN BY NEC

AQUA ENGINEERING
533 W 2600 S, SUITE 275, BOUNTIFUL, UT 84010
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Bohannan Huston
www.bhinc.com 800.877.5332

LOS ALAMOS COUNTY
WHITE ROCK WRRF
CIVIL
OVERALL SITE PLAN [1 OF 2]

BHI PROJECT NO. 20200192 | DWG NO. 01C201 | SHEET 18 OF 258

Wed, 28-Apr-2021 - 5:05 pm, Plotted by: NICHAUEZ
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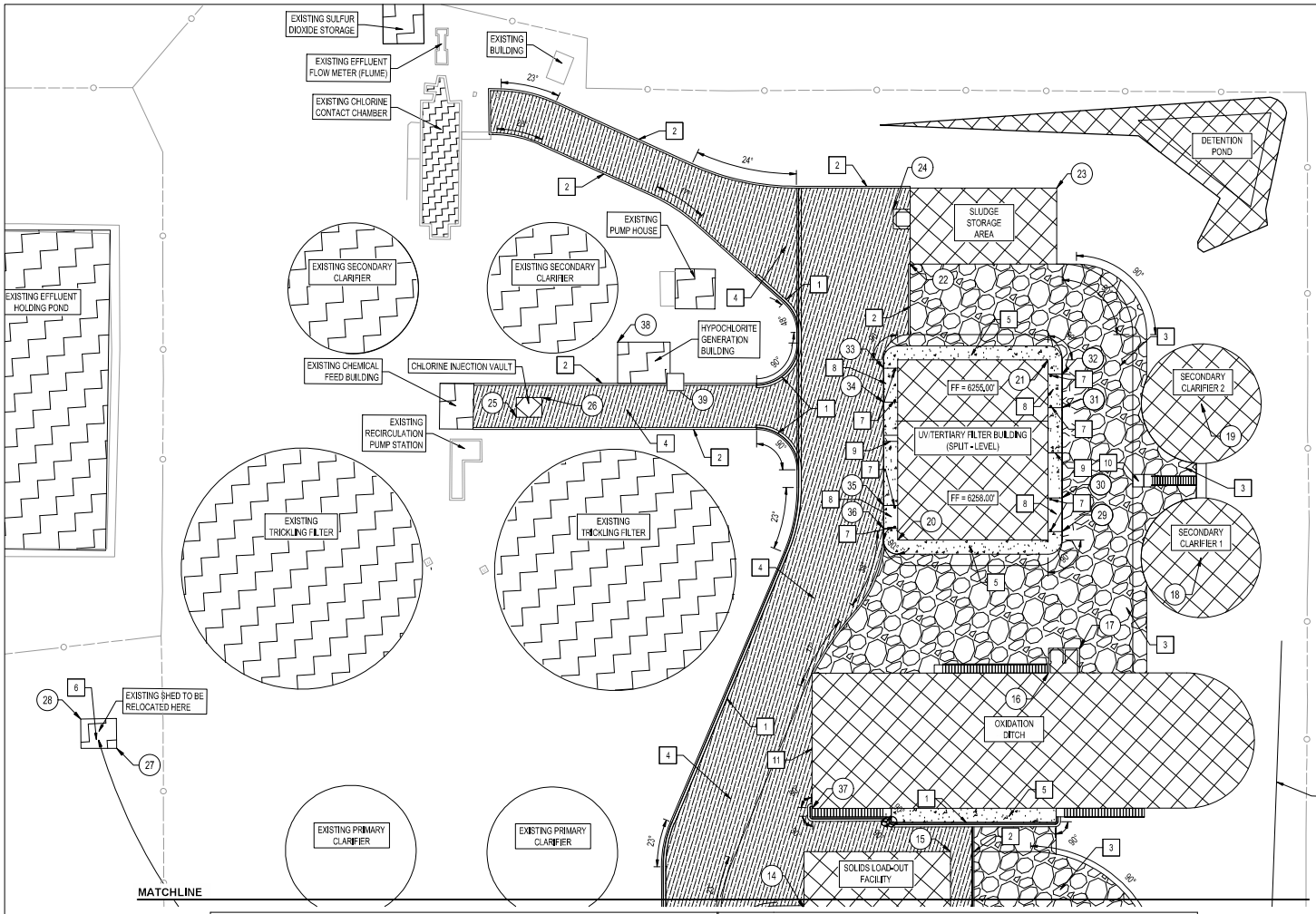

Point Table			
16	1660426.19	1756971.78	OXIDATION DITCH EFFLUENT BOX, SEE SHEETS 20S201 - 20M405
17	1660440.08	1756974.26	OXIDATION DITCH EFFLUENT BOX, SEE SHEETS 20S201 - 20M405
18	1660493.34	1756981.72	SECONDARY CLARIFIER 1, SEE SHEETS 21S201 - 21M901
19	1660519.65	1757029.64	SECONDARY CLARIFIER 2, SEE SHEETS 21S201 - 21M901
20	1660401.86	1757038.89	UV/TERTIARY FILTERS BUILDING, SEE SHEETS 30A201 - 30H201
21	1660479.37	1757069.42	UV/TERTIARY FILTERS BUILDING, SEE SHEETS 30A201 - 30H201
22	1660452.80	1757122.72	SLUDGE STORAGE AREA, SEE SHEET 50S201
23	1660511.38	1757121.44	SLUDGE STORAGE AREA, SEE SHEET 50S201
24	1660456.90	1757142.71	SLUDGE STORAGE AREA, SEE SHEET 50S201
25	1660304.11	1757142.25	CHLORINE INJECTION VAULT, SEE SHEET 01C702
26	1660315.37	1757144.05	CHLORINE INJECTION VAULT, SEE SHEET 01C702
27	1660123.22	1757107.17	RELOCATE BUILDING

Point Table (Continued)			
○	EASTING	NORTHING	DESCRIPTION
28	1660116.97	1757122.40	RELOCATE BUILDING
29	1660454.47	1757013.51	INSTALL CONCRETE APRON PER DETAIL C121, SHEET C908
30	1660460.23	1757024.04	INSTALL CONCRETE APRON PER DETAIL C121, SHEET C908
31	1660475.59	1757052.11	INSTALL CONCRETE APRON PER DETAIL C121, SHEET C908
32	1660481.35	1757062.63	INSTALL CONCRETE APRON PER DETAIL C121, SHEET C908
33	1660426.76	1757094.80	INSTALL CONCRETE APRON PER DETAIL C121, SHEET C908
34	1660421.00	1757084.27	INSTALL CONCRETE APRON PER DETAIL C121, SHEET C908
35	1660403.39	1757052.11	INSTALL CONCRETE APRON PER DETAIL C121, SHEET C908
36	1660399.47	1757044.94	INSTALL CONCRETE APRON PER DETAIL C121, SHEET C908
37	1660329.46	1756969.94	OXIDATION DITCH CORNER, SEE SHEETS 20S201 - 20M405
38	1660348.40	1757148.33	NEW HYPOCHLORITE GENERATION BUILDING
39	1660357.73	1757126.50	NEW HYPOCHLORITE GENERATION BUILDING

GENERAL NOTES

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2. THE CONTRACTOR SHALL COORDINATE ACTIVITIES WITH THE LOS ALAMOS COUNTY STAFF TO ALLOW THE COUNTY ACCESS FOR OPERATION AND MAINTENANCE OF THE FACILITIES THROUGHOUT THE CONSTRUCTION DURATION.
3. ANY ACTIVITY PROHIBITING ACCESS SHALL BE COORDINATED WITH THE COUNTY STAFF AT WITH AT LEAST SEVEN (7) DAYS NOTICE.
4. REFER TO SITE GRADING AND DRAINAGE SHEETS (DWG 01C401 TO 01C403) FOR SITE LAYOUT AND ELEVATION INFORMATION.

KEYED NOTES

1. INSTALL MEDIAN CURB AND GUTTER PER NMPWSS STD. DWG. 2415B.
2. INSTALL CUT-OFF-WALL PER NMPWSS STD DWG. 2415B.
3. INSTALL GRAVEL ROAD, PER DETAIL 2 ON DWG. 01C201.
4. INSTALL ASPHALT ROAD. PER DETAIL 1 ON DWG. 01C202.
5. INSTALL 5 FOOT WIDE SIDEWALK PER NMPWSS STD DWG 2430.
6. RELOCATE EXISTING BUILDING. REFER TO DWG 1C201 FOR EXISTING LOCATION. CONSTRUCT NEW CONCRETE PAD, 10 FT X 12 FT X 1 FT THICK WITH #4 @12 INCH O.C. EACH WAY. PLACE TOP OF CONCRETE PAD 4 INCHES ABOVE GRADE.
7. INSTALL BOLLARD (STATIONARY POST) PER NMPWSS STD. DWG. 2250.
8. INSTALL CONCRETE APRON PER DETAIL C121, SHEET C908.
9. INSTALL STAIRS, SEE GRADING SHEETS FOR LAYOUT POINTS.
10. INSTALL 4.5' WIDE CONCRETE SIDEWALK TO GRAVEL ROAD PER NMPWSS STD. DWG 2430
11. EXTEND ASPHALT TO STRUCTURE.

LEGEND

- EXISTING STRUCTURE TO BE RE-PURPOSED.
- PROPOSED NEW STRUCTURE.
- PROPOSED NEW CONCRETE.
- PROPOSED NEW GRAVEL PER DETAIL 2, DWG 01C201. BID ALTERNATE A. ASPHALT PER DETAIL 1, DWG 01C201.
- PROPOSED NEW ASPHALT PER DETAIL 1, DWG 01C201.

N

20 10 0 20
1"=20'

BENCH MARKS

UNITS: US SURVEY FOOT
HORIZONTAL DATUM: NAD_83(2011)(EPOCH:2010.000)
VERTICAL DATUM:NAVD88
PROJECTION: TRANSVERSE MERCATOR
STATE PLANE AND/OR UTM ZONE: NM CENTRAL (3002)
BASIS OF BEARING: GRID BEARINGS
PROJECT COMBINED FACTOR:
0.99990092 BASED ON POINT BH 20-192-01

ENGINEER'S SEAL

TODD A. BURT
NEW MEXICO
16654
LICENSED PROFESSIONAL ENGINEER
04/20/21

AS-BUILT INFORMATION

	BY	DATE
CONTRACTOR		
WORK STAKED BY		
INSPECTOR'S ACCEPTANCE BY		
FIELD VERIFICATION BY		
DRAWINGS CORRECTED BY		

REVISIONS

NO.	DATE

DESIGN

DESIGNED BY	CEM
CHECKED BY	TAB
DRAWN BY	NEC

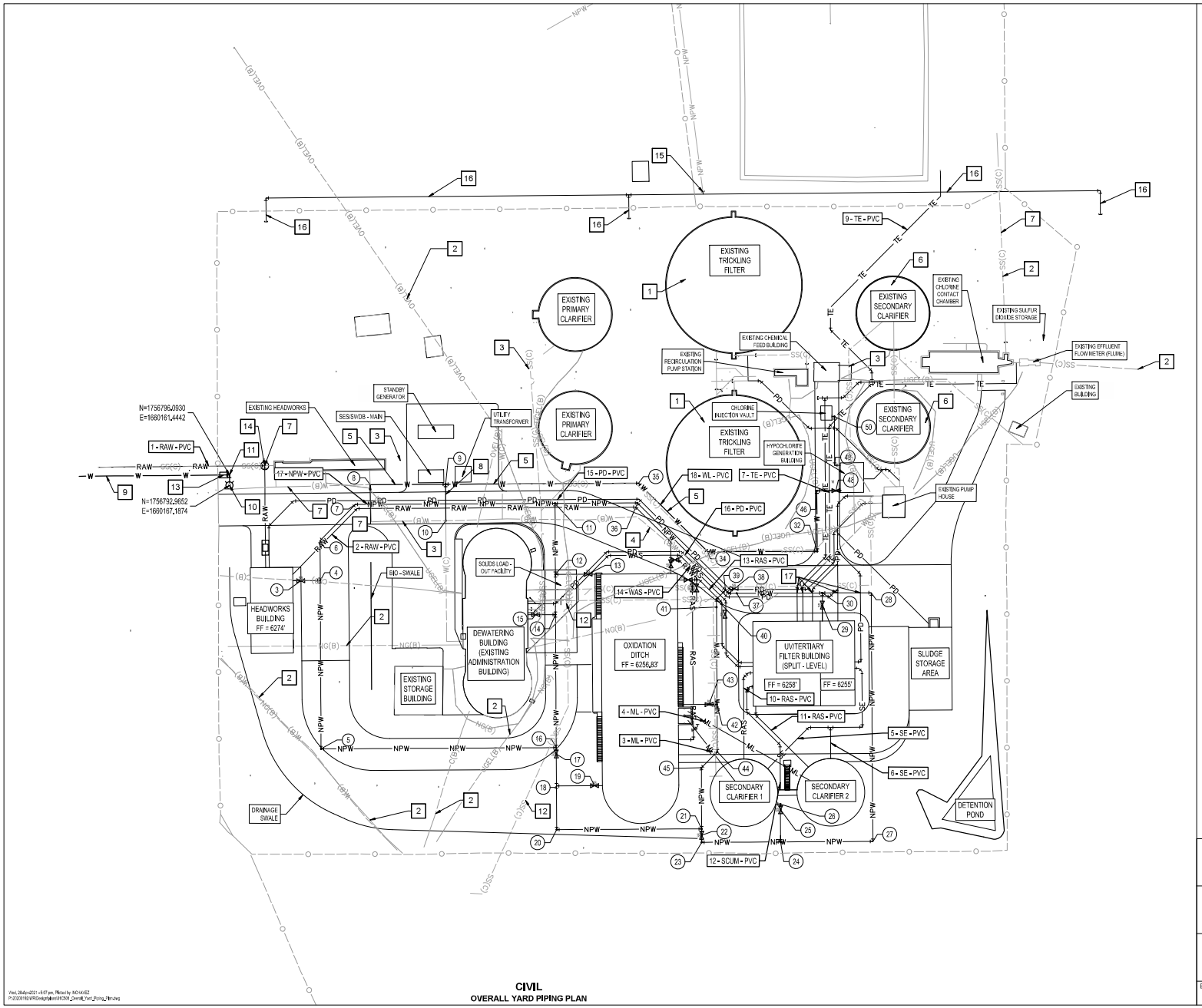
AQUA ENGINEERING
533 W 2600 S, SUITE 270, BOUNTIFUL, UT 84010
PHONE (801) 298-1507 FAX (801) 298-0358

Bohannan Huston
www.bhinc.com 800.877.5332

LOS ALAMOS COUNTY
WHITE ROCK WRRF
CIVIL
OVERALL SITE PLAN [2 OF 2]

BHI PROJECT NO. 20200192 | DWG NO. 01C202 | SHEET 19 OF 258

Wed, 28-Apr-2021 - 5:06 pm, Plotted by: INCHAUSE2
P:\2020\192\WRRDesign\plans\01C201_OverallSite_Plan.dwg



GENERAL NOTES

1. CONTRACTOR SHALL INSTALL ELECTRONIC MARKER DISKS (EMD) IN ACCORDANCE WITH NMPWSS SPECIFICATION SECTION 170.
2. REFER TO YARD PIPING SCHEDULE ON DWG 01C503.
3. REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION ON EXISTING ELECTRICAL AND COMMUNICATION UTILITIES.
4. EXISTING UTILITY INFORMATION SHOWN BASED ON AS-BUILT DATA. LOCATIONS ARE APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY LOCATION OF EXISTING UTILITIES PRIOR TO CONSTRUCTION.
5. PVC SDR-21 PIPE SHALL BE INSTALLED WHERE 10' COMBINED HORIZONTAL OR VERTICAL OFFSET CANNOT BE MAINTAINED BETWEEN POTABLE WATERLINE AND ALL NON-POTABLE WATER OR SANITARY SEWER LINE.
6. ALL POINT INFORMATION IS LOCATED ON SHEET 01C504. ALL POTABLE AND NON-POTABLE WATERLINES AND VALVES SHALL BE BURIED A MINIMUM OF 4' EXCEPT WHERE SPECIFIC BUILDING CONNECTIONS ARE AT A DEPTH LESS THAN 4'. BUILDING CONNECTIONS SHALL BE MADE WITH NO FITTINGS OR MULTIPLE SLOPE CHANGES AND VALVES SHALL BE LOCATED AT THE APPROPRIATE ELEVATION ALONG THE PIPE AS LAYED OUT ON THIS SHEET.

KEYED NOTES

1. TRICKLING FILTER, SEE DETAIL ON DWG. 01C907.
2. EXISTING UTILITY TO REMAIN.
3. EXISTING UTILITY TO BE GROUTED AND ABANDONED-IN-PLACE.
4. EXISTING UTILITY TO BE RE-LOCATED.
5. NEW 2" WATERLINE. TIE TO EXISTING WATERLINE. MAINTAIN SEPARATION AS NOTED IN STD DWG 2140.
6. SECONDARY CLARIFIER, SEE DETAIL ON DWG. 01C905.
7. CONNECT TO EXISTING.
8. NEW POTABLE WL TO EXISTING WATER SERVICE LINE TO DEWATERING BUILDING.
9. 6" POTABLE WATERLINE (RESTRAIN ALL JOINTS) CONNECT TO EXISTING 6" WL IN ROAD PER STD DWG 2301.
10. INSTALL FIRE HYDRANT AND 6" ISOLATION VALVE INSIDE FENCELINE PER STD DWG. 2340.
11. INSTALL 6" 90 DEGREE BEND.
12. EXISTING SEWER LINE FROM PARKS OFFICE. TIES TO EXISTING PLANT DRAIN. VERIFY PIPE SIZE AND LOCATION OF CONNECTION. CONNECT EXISTING SEWER LINE TO NEW PLANT DRAIN LINE WITH WYE.
13. INSTALL BACKFLOW PREVENTION DEVICE AND HOTBOX INSIDE FENCELINE PER STD DWG. 2385. DO NOT INSTALL METER BOX.
14. INSTALL MANHOLE PER NMPWSS STD. DWG. 2101.
15. LOCATE AND REMOVE EXISTING CAP. INSTALL 6" DI TEE AND 6" DIP CONNECTIONS. INFLECT PIPE OR USE 11.25 DEGREE BENDS TO MAINTAIN ALIGNMENT.
16. INSTALL 6" DIP. RESTRAIN ALL JOINTS.
17. SEE PROFILE SHEETS FOR NPW LINE INSTALLATION AT UTILITY CROSSING.

30 15 0 30
1"=30'

BENCH MARKS
UNITS: US SURVEY FOOT
HORIZONTAL DATUM: NAD_83/2011(EPOCH:2010.00)
VERTICAL DATUM:NAVD88
PROJECTION: TRANSVERSE MERCATOR
STATE PLANE AND/OR UTM ZONE: NM CENTRAL (3002)
BASIS OF BEARING: GRID BEARINGS
PROJECT COMBINED FACTOR:
0.99990092 BASED ON POINT BH 20-192-01

ENGINEER'S SEAL
TODD A. BURT
NEW MEXICO
16654
LICENSED PROFESSIONAL ENGINEER
04/28/21

AS-BUILT INFORMATION
CONTRACTOR — DATE
WORK STAKED BY — DATE
INSPECTOR'S ACCEPTANCE BY — DATE
FIELD VERIFICATION BY — DATE
DRAWINGS CORRECTED BY — DATE

REVISIONS
NO. | DATE | BY

DESIGN
DESIGNED BY CEM
CHECKED BY TAB
DRAWN BY NEC

Bohannan Huston
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LOS ALAMOS COUNTY
WHITE ROCK WRRF
CIVIL
OVERALL YARD PIPING PLAN

BHI PROJECT NO. 20200192 | DWG NO. 01C501 | SHEET 26 OF 258

Wed, 28-Apr-2021 - 5:07 pm, Plotted by: INDHAIEZ
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