

GANADO WWTP EXPANSION FINAL DESIGN

NAVAJO TRIBAL UTILITY AUTHORITY

GANADO, ARIZONA

wood.

ENVIRONMENT &
INFRASTRUCTURE SOLUTIONS
8519 JEFFERSON NE
ALBUQUERQUE, NM 87113
TEL: (505) 821-1801



FINAL

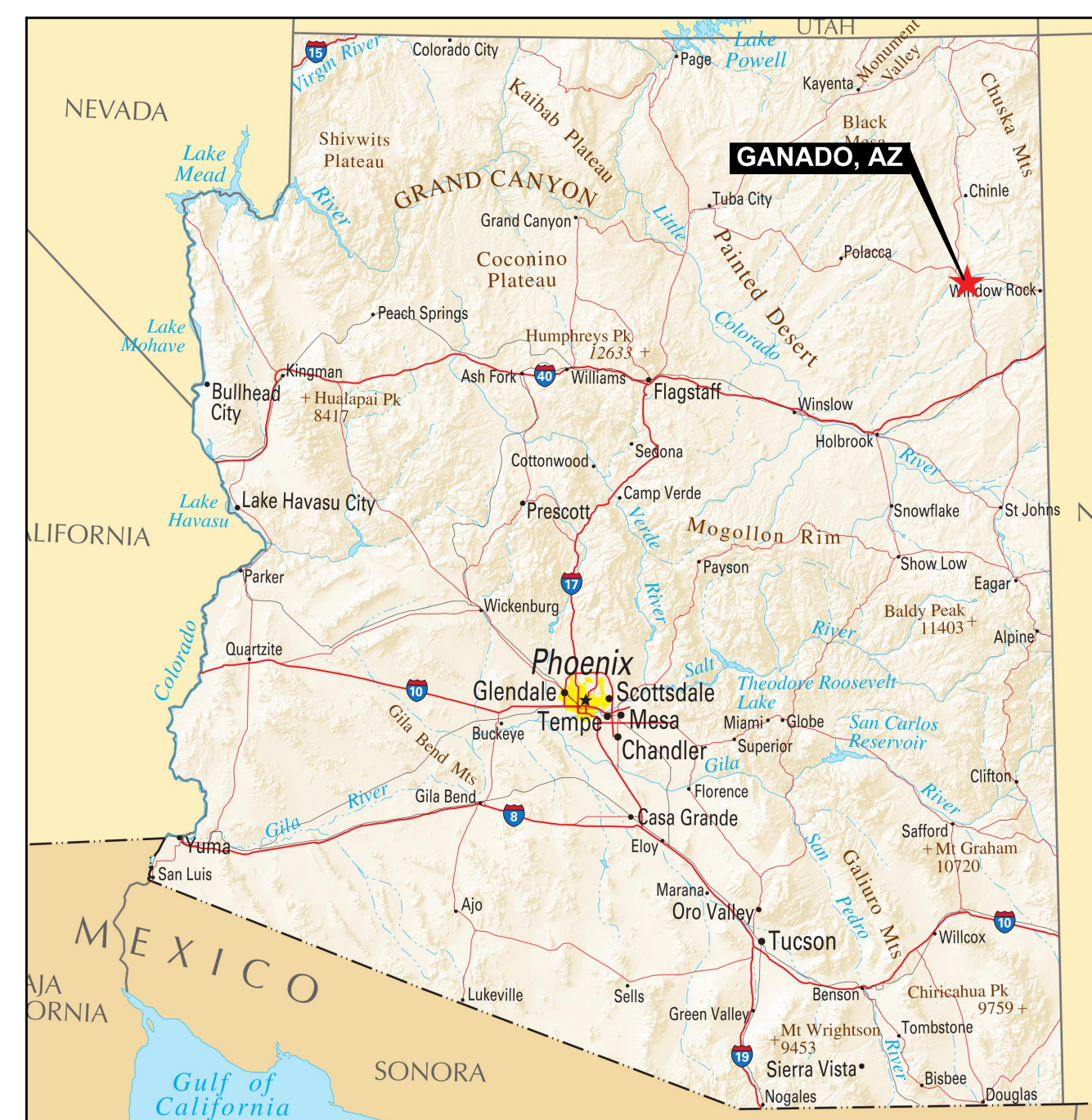
PROJECT:
**GANADO WWTP
EXPANSION FINAL
DESIGN**



**NAVAJO TRIBAL
UTILITY AUTHORITY**

PO BOX 170
FT. DEFIANCE, AZ 86504
WOOD PROJECT No:
1951700034

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SITE LOCATION
NTS



VICINITY MAP
NTS



DATE OF PREPARATION:
ORIGINAL ISSUE: 12/03/2020

ENGINEER CONSULTANT:
WOOD E&IS
8519 JEFFERSON NE
ALBUQUERQUE, NM 87113 (505) 821-1801

GEOTECHNICAL CONSULTANT:
WOOD E&IS
8519 JEFFERSON NE
ALBUQUERQUE, NM 87113 (505) 821-1801

THIS PLAN SET IS BASED ON AERIAL PHOTOGRAPHY. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE EXISTING INFORMATION SHOWN ON THESE PLANS IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR WILL BE RESPONSIBLE FOR FIELD VERIFYING LOCATIONS AND DEPTHS OF EXISTING UTILITIES BEFORE COMMENCING CONSTRUCTION. THE CONTRACTOR MUST ALSO CALL 811 AND NAVAJO UTILITY AUTHORITY, P.O. BOX 170, FORT DEFIANCE, AZ, 86504 AT 928-729-5721 AT LEAST 3 WORKING DAYS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES.

REVISIONS			
NO.	DATE	BY	APPROVED

DESIGNED BY:	WOOD -
DRAWN BY:	WOOD -
CHECKED BY:	WOOD -
APPROVED BY:	WOOD -
DATE:	12/03/2020

SHEET TITLE:
COVER SHEET

SHEET NUMBER:	REV. #
G-001	
SHEET 1 OF 19 SHEETS	

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GENERAL NOTES:

QUALITY CONTROL

- 1.0 UNLESS OTHERWISE STATED, INDIAN HEALTH SERVICE (IHS) NAVAJO ENGINEERING AND CONSTRUCTION AUTHORITY (NECA) SPECIFICATIONS (REVISION 1.5) AND INDIAN HEALTH SERVICE STANDARD DETAILS FOR SEWER (REVISION 1.7) SHALL CONTROL THE MATERIALS AND WORKMANSHIP OF THIS PROJECT WHETHER SPECIFICALLY CALLED OUT OR NOT. THE IHS NECA SPECIFICATIONS ARE A SEPARATE VOLUME AND NOT ISSUED AS PART OF THE CONSTRUCTION SET. SPECIFICATION SECTIONS AND STANDARD DRAWINGS, WHEN NOTED HEREIN, REFER TO CORRESPONDING PARTS OF THESE DOCUMENTS.
- 2.0 IF DURING THE COURSE OF WORK THE CONTRACTOR BECOMES AWARE OF A CONTRADICTION IN THE REQUIREMENTS BETWEEN THE STANDARD SPECIFICATIONS AND DRAWINGS AND THESE PLANS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER.

SAFETY

- 3.0 THE CONTRACTOR IS SOLELY RESPONSIBLE FOR JOBSITE SAFETY AND FOR KNOWLEDGE AND COMPLIANCE WITH APPLICABLE O.S.H.A. STANDARDS AND OTHER FEDERAL, STATE, TRIBAL AND LOCAL SAFETY AND WORKPLACE COMPLIANCE REQUIREMENTS.

EXISTING CONDITIONS

- 4.0 THE LOCATION OF EXISTING UTILITIES, AS SHOWN ON THE DRAWINGS, ARE APPROXIMATE. THE CONTRACTOR IS RESPONSIBLE FOR ACCURATE LOCATION IN THE FIELD. COST FOR ACCURATE LOCATION IS INCIDENTAL TO THE WORK AND NO ADDITIONAL COMPENSATION WILL BE MADE.
- 5.0 IF EVIDENCE OF SUBSURFACE ARCHAEOLOGICAL OR HISTORIC FEATURES ARE OBSERVED DURING CONSTRUCTION, THE CONTRACTOR SHALL IMMEDIATELY HALT CONSTRUCTION IN THE AREA, PROTECT THE SITE, AND NOTIFY THE ENGINEER. NO CONSTRUCTION ACTIVITY SHALL OCCUR WITHIN THE 50 FOOT BUFFER AROUND THE EXISTING ARCHAEOLOGICAL SITE UNTIL APPROVED.

PROJECT CONTROL

- 6.0 LOCAL HORIZONTAL CONTROL: EIGHT BRASS CAP CONTROL POINTS THAT HAVE BEEN INSTALLED ONSITE ARE THE BASIS OF HORIZONTAL CONTROL. THE CONTROL POINTS SHALL BE MAINTAINED AND REMAIN UNDISTURBED DURING CONSTRUCTION AND WILL SERVE AS HORIZONTAL CONTROL POINTS FOR THE PROJECT.

Control Points*			
Point	Northing	Easting	Elev
707	21218.3670'	19878.1630'	6344.897'
809	20563.2910'	17895.9940'	6329.179'
810	20554.5950'	19217.0930'	6349.588'
811	20324.7490'	19878.9830'	6328.690'
812	20557.3310'	19878.7520'	6331.907'
30000	20326.5560'	19353.8990'	6334.615'
30001	20586.0430'	16577.3510'	6331.862'
30002	20586.5440'	16332.9600'	6344.787'

*Local Coordinate System

- 7.0 SCALES IN THESE PLANS ARE VALID WHEN PLOTTED ON 22"X34" (ANSI).

WORK AREA

- 8.0 THE CONTRACTOR SHALL CONFINE WORK TO WITHIN THE PRESCRIBED CONSTRUCTION LIMITS, EASEMENT, RIGHT-OF-WAY OR PROPERTY.
- 9.0 THE CONTRACTOR SHALL COORDINATE HIS ACTIVITIES WITH THE OWNER AND ENGINEER TO MINIMIZE ACCESS TO ADJACENT PROPERTIES AND TRAFFIC DISRUPTIONS.
- 10.0 THE CONTRACTOR SHALL ACQUIRE THE NECESSARY LICENSES OR PERMITS WHEN WORKING WITHIN OR NEAR A RIGHT-OF-WAY, STREET, ROAD OR HIGHWAY, SIDEWALK, TRAIL, OR OTHER PUBLIC THOROUGHFARE AND SHALL INCORPORATE THE REQUIREMENTS OF SAID LICENSE/PERMIT.
- 11.0 WHEN WORKING IN OR NEAR TRAFFIC THE CONTRACTOR SHALL (AT A MINIMUM) PROVIDE, ADEQUATE SIGNS, BARRICADES, WARNING LIGHTS, AND FLAGGERS TO ENSURE THE SAFETY/PROTECTION OF THE PUBLIC, EMPLOYEES, AND THE WORK IN ACCORDANCE WITH THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD), LATEST EDITION.
- 12.0 IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN ACCESS TO EXISTING RESIDENCES, BUSINESSES, TURNOUTS AND INTERSECTING ROADS AT ALL TIMES DURING CONSTRUCTION.
- 13.0 IF A FENCED/SECURE STORAGE AREA FOR MATERIALS AND EQUIPMENT IS DESIRED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AN AREA OFF THE PROJECT SITE. USING THE AREA FOR STORAGE SHALL COMPLY WITH LOCAL ZONING OR OTHER ORDINANCES AND SHALL BE PERMITTED, IF REQUIRED. OBTAINING A STORAGE AREA SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT AND NO ADDITIONAL PAYMENT WILL BE MADE TO THE CONTRACTOR.
- 14.0 OVERNIGHT PARKING OF CONTRACTOR'S EQUIPMENT SHALL NOT OBSTRUCT ACCESS OR DESIGNATED TRAFFIC LANES. THE CONTRACTOR SHALL PARK OR STORE EQUIPMENT AT SAFE DISTANCES FROM THE TRAVELED WAY.
- 15.0 THE CONTRACTOR IS RESPONSIBLE FOR SOIL EROSION, DRAINAGE CONTROL AND DUST DURING CONSTRUCTION AND MUST, WHEN APPLICABLE, PREPARE AND ADHERE TO A STORM WATER POLLUTION PREVENTION PLAN (SWPPP) PREPARED ACCORDING TO THE U.S. ENVIRONMENTAL PROTECTION AGENCY'S CONSTRUCTION GENERAL PERMIT (CGP).

OTHER UTILITIES

- 16.0 THE CARE AND PROTECTION OF OTHER UTILITIES, STREET APPURTENANCES, DRAINAGE STRUCTURES AND OTHER INFRASTRUCTURE, WHETHER PUBLIC OR PRIVATE, THAT ARE NOT PART OF THE INTENDED WORK ARE THE RESPONSIBILITY OF THE CONTRACTOR. IF DAMAGED OR OTHERWISE HARMFULLY DISTURBED, THE ITEMS WILL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE.
- 17.0 WHERE TRENCHING AROUND OR BENEATH EXISTING UTILITY LINES OCCURS, THE CONTRACTOR WILL BE RESPONSIBLE FOR COORDINATING WITH THE UTILITY OWNER AND FOR SUPPORTING THE UTILITY LINE, AS REQUIRED BY THE UTILITY OWNER, DURING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ASSURING THE UTILITY IS ADEQUATELY SUPPORTED BY COMPACTED BACKFILL OR OTHER MEANS AT THE COMPLETION OF CONSTRUCTION AS REQUIRED BY THE UTILITY OWNER. IF THE TECHNIQUES REQUIRED FOR STABILIZING OTHER UTILITIES CONFLICT WITH THE REQUIREMENTS OF THIS PROJECT THE CONTRACTOR SHALL NOTIFY THE ENGINEER.


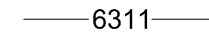
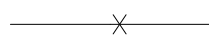
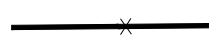



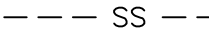



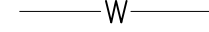
EXCESS MATERIAL & DEBRIS

- 18.0 ANY EXTRA NATURAL SOIL (CLEAN OF OIL AND CHEMICALS) REMAINING AFTER BACKFILL AND COMPACTION MAY BE DISPOSED AT A SITE APPROVED BY THE OWNER. CONTRACTOR SHALL HAUL DEBRIS AND NON-NATURAL SOILS TO A CERTIFIED LANDFILL. SOIL AND DEBRIS DISPOSAL IS INCIDENTAL TO CONSTRUCTION; NO ADDITIONAL COMPENSATION WILL BE MADE.

RECORD DRAWINGS

- 19.0 THE CONTRACTOR SHALL PREPARE AND MAINTAIN AN UP-TO-DATE SET OF RECORD DRAWINGS FOR THE PROJECT. THESE PLANS SHALL BE KEPT CURRENT DAILY AND SHALL BE MADE AVAILABLE FOR REVIEW AS REQUESTED BY THE ENGINEER. THE COST OF PREPARING AND MAINTAINING A RECORD DRAWING SET SHALL BE INCIDENTAL TO THE PROJECT; NO ADDITIONAL COMPENSATION WILL BE MADE.

LEGEND:

EXISTING		PROPOSED	
	AERATOR		TOPOGRAPHIC CONTOUR
	FENCE		FENCE
	OVERHEAD ELECTRIC LINE		SANITARY SEWER LINE
	POWER POLE		
	SANITARY SEWER LINE		
	SANITARY SEWER MANHOLE		
	TOPOGRAPHIC CONTOUR		
	UNDERGROUND ELECTRIC LINE		
	WATER LINE		

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DATE:	12/03/2020

SHEET TITLE:
**GENERAL NOTES
& LEGEND**

SHEET NUMBER:	REV. #
G-002	
SHEET 2 OF 19 SHEETS	

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DEMOLITION NOTES:

- ① REMOVE AND DISPOSE OF DEBRIS
- ② REMOVE ELECTRICAL LINES AND POWER POLES
- ③ REMOVE EXISTING FENCE AND GATES
- ④ REMOVE AND DISPOSE OF STRUCTURES
- ⑤ CAP & ABANDON 2" WATER LINE SOUTH OF TEE
- ⑥ REMOVE AND DISPOSE OF EXISTING CULVERT
- ⑦ TRANSFORMER AND GENERATOR TO BE RELOCATED
- ⑧ RELOCATE SOUTH SEGMENT OF FENCE
- ⑨ REMOVE TOP 8-INCH ROW OF CMU BLOCK
- ⑩ REMOVE EXISTING PIPE GATE

SHEET GENERAL NOTES:

- 1. UTILITIES ILLUSTRATED ON PLAN ARE PRESENTED FOR CONTRACTOR INFORMATION, IF APPLICABLE. SUBSURFACE UTILITY LOCATES HAVE NOT BEEN FIELD VERIFIED. ACTUAL UTILITIES ARE SUBJECT TO CHANGE AND UNMARKED. UNKNOWN UTILITIES SHOULD BE MITIGATED IN THE FIELD PRIOR TO GROUND DISTURBANCES. COORDINATE WITH NAVAJO TRIBAL UTILITY AUTHORITY (NTUA) IN CHINLE, AZ, AND ARIZONA ONE-CALL UTILITY LOCATE.

REMOVALS-ESTIMATED QUANTITIES

ITEM	QUANTITY	NOTES
FENCING REMOVAL	≈2641 LF	
FENCING RELOCATE	≈456 LF	
DEBRIS REMOVAL	≈1200 SQ-FT	
BOX CULVERT REMOVAL	1 EA	
STRUCTURES REMOVAL	6 EA	
STRUCTURES RELOCATE	2 EA	
POWER POLE REMOVAL	7 EA	
ELECTRICAL LINE REMOVAL	≈1680 LF	
CYNDER BLOCK REMOVAL	≈40 LF	BAR SCREEN

wood.

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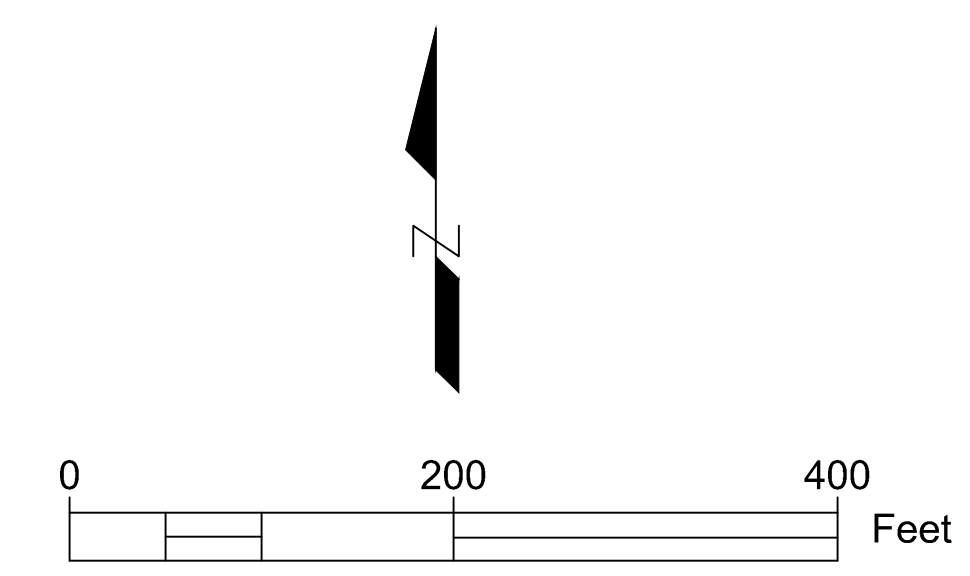
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DESIGNED BY:	WOOD -
DRAWN BY:	WOOD -
CHECKED BY:	WOOD -
APPROVED BY:	WOOD -
DATE:	12/03/2020

SHEET TITLE:
EXISTING SITE CONDITIONS & DEMOLITION PLAN

SHEET NUMBER:	REV. #
C-100	
SHEET 3 OF 19 SHEETS	

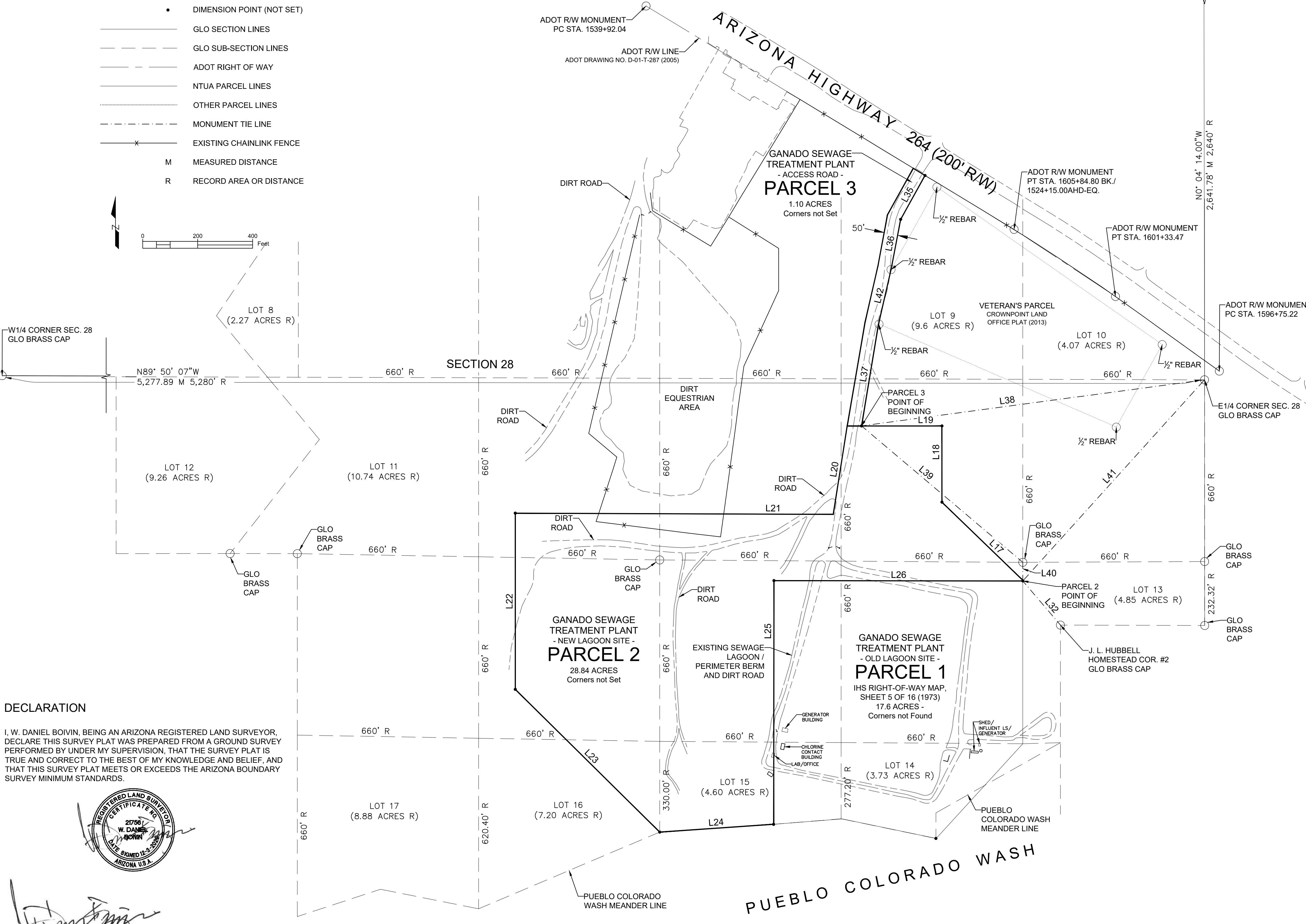
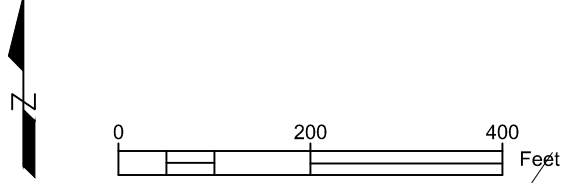


**GANADO SEWAGE TREATMENT PLANT
RIGHT-OF-WAY SURVEY**
- FOR -
**PARCEL 2 - NEW LAGOON SITE
&
PARCEL 3 - ACCESS ROAD**

PARTS OF THE E1/2 OF SECTION 28, T27N, R26E, GILA & SALT RIVER MERIDIAN, APACHE COUNTY, ARIZONA

LEGEND

- FOUND MONUMENT
- DIMENSION POINT (NOT SET)
- GLO SECTION LINES
- - - GLO SUB-SECTION LINES
- ADOT RIGHT OF WAY
- NTUA PARCEL LINES
- OTHER PARCEL LINES
- - - MONUMENT TIE LINE
- × EXISTING CHAINLINK FENCE
- M MEASURED DISTANCE
- R RECORD AREA OR DISTANCE



**PARCEL 2
GANADO SEWAGE TREATMENT PLANT, NEW
LAGOON SITE:**

A PARCEL OF LAND WITHIN THE WITHIN THE E1/2 OF SECTION 28, T27N, R26E, GILA & SALT RIVER MERIDIAN, ARIZONA. SAID LAND PARCEL SHALL BE THE SITE OF A NEW LAGOON AND DESIGNATED AS PARCEL 2 OF THE GANADO SEWAGE TREATMENT PLANT SITE AND MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT A POINT ON THE WEST LINE OF GLO LOT 13, WHICH BEARS:
S 00° 00' 00" E, 67.84' FROM THE NW CORNER OF SAID LOT 13,
N 40° 29' 49" W, 210.66' FROM CORNER 2 OF THE J. L. HUBBELL HOMESTEAD, AND
N 42° 05' 54" E, 986.15' FROM THE E1/4 CORNER OF SECTION 28;

SAID POINT OF BEGINNING IS ALSO THE NE CORNER OF THE GANADO SEWAGE TREATMENT PLANT SITE (AS DESCRIBED IN AN NTUA AND PHS RIGHT-OF-WAY MAP, SHEET 5 OF 16 DATED 1973) AND HEREAFTER CALLED PARCEL 1 OF THE GANADO SEWAGE TREATMENT PLANT SITE AND WITHIN WHICH LIES MOST OF THE GANADO SEWAGE LAGOON CONSTRUCTED IN 1973.

THENCE, FROM SAID POINT OF BEGINNING, N 89° 55' 00" W, 908.11' ALONG THE NORTH LINE OF PARCEL 1 TO A POINT THAT IS THE NW CORNER OF PARCEL 1;
THENCE S 00° 05' 00" W, 886.32' ALONG THE WEST LINE OF PARCEL 1 TO A POINT THAT IS THE SW CORNER OF PARCEL 1 AND LIES UPON THE GLO MEANDER LINE FOR THE PUEBLO COLORADO WASH;

THENCE S 86° 03' 56" W, 415.44' ALONG SAID MEANDER LINE TO A POINT THAT IS THE SW CORNER OF GLO LOT 15;
THENCE N 45° 20' 42" W, 738.76' TO A POINT;
THENCE N 00° 00' 00" W, 640.89' TO A POINT;
THENCE N89° 46' 58" E, 1156.95' TO A POINT;
THENCE N08° 58' 26" E, 325.63' TO A POINT;
THENCE N 90° 00' 00" W, 344.78' TO A POINT;
THENCE N 00° 00' 00" E, 277.13' TO A POINT;
THENCE N 45° 59' 37" E, 412.75' RETURNING TO THE POINT OF BEGINNING.
AS DESCRIBED, PARCEL 2 OF THE GANADO SEWAGE TREATMENT PLANT SITE CONTAINS 28.8 ACRES.

PARCEL 2 BOUNDARY TABLE

TAG #	BEARING	DISTANCE	TAG #	BEARING	DISTANCE
L17	N45° 59' 37.17"W	412.75'	L25	N00° 00' 00.00"E	886.32'
L18	N00° 00' 00.00"E	277.13'	L26	S89° 55' 00.00"E	908.11'
L19	N90° 00' 00.00"W	344.78'			
L20	S08° 58' 25.89"W	325.63'			
L21	N89° 46' 57.79"W	1156.95'			
L22	S00° 00' 00.00"E	640.89'			
L23	S45° 20' 41.95"E	738.78'			
L24	N86° 03' 56.15"E	415.44'			

**PARCEL 3
GANADO WASTEWATER PLANT, ACCESS ROAD:**

A 50' WIDE STRIP OF LAND WITHIN THE E1/2 OF SECTION 28, T27N, R26E, GILA & SALT RIVER MERIDIAN, ARIZONA. SAID LAND STRIP LIES ON THE WESTERN SIDE OF THE FOLLOWING DESCRIBED LINE AND SHALL PROVIDE ACCESS TO THE GANADO SEWAGE TREATMENT PLANT FROM ARIZONA HIGHWAY 264 AND BE DESIGNATED PARCEL 3 OF THE GANADO SEWAGE TREATMENT PLANT SITE.

BEGINNING AT A POINT ON THE NORTHERN-MOST LINE OF PARCEL 2 OF THE GANADO SEWAGE TREATMENT PLANT WHICH BEARS:

S 82° 20' 31" W, 1259.11' FROM THE E1/4 CORNER OF SECTION 28, AND
N 49° 47' 12" W, 768.36' FROM THE NW CORNER OF GLO LOT 13.

THENCE N 09° 28' 54" E, 376.02' TO A POINT THAT IS ALSO THE WESTERN-MOST CORNER OF THE VETERANS PARCEL PER A CROWNPOINT LAND OFFICE PLAT DATED 2015;

THENCE ALONG THE WESTERN LINE OF THE VETERANS PARCEL N 12° 55' 58" E, 202.94' TO A POINT;

THENCE N 10° 49' 31" E, 186.10' TO A POINT;

THENCE N 29° 03' 35" E, 182.68' TO A POINT OF TERMINUS THAT LIES UPON THE SOUTH RIGHT-OF-WAY LINE OF ARIZONA STATE HIGHWAY 264;

THE WESTERN SIDELINE OF SAID STRIP OF LAND SHALL BE PROLONGED OR SHORTENED TO TERMINATE ON THE NORTHERN-MOST LINE OF PARCEL 2 AND THE SOUTHERLY RIGHT-OF-WAY OF ARIZONA HIGHWAY 264.

AS DESCRIBED, PARCEL 3 OF THE GANADO SEWAGE TREATMENT PLANT SITE CONTAINS 17.6 ACRES.

PARCEL 3 BOUNDARY TABLE

TAG #	BEARING	DISTANCE
L35	N29° 03' 35.20"E	182.68'
L36	N10° 49' 30.68"E	186.10'
L37	N09° 28' 53.99"E	376.02'
L42	N12° 55' 57.78"E	202.94'

- NOTES:**
- OWNER: NAVAJO TRIBAL TRUST
 - ADDRESS: GANADO, ARIZONA
 - GROUND SURVEY PERFORMED: SEPTEMBER AND OCTOBER 2020
 - BASIS OF BEARINGS: BEARINGS ARE REFERENCED TO THE ARIZONA STATE PLANE EAST ZONE, GRID, OBTAINED BY USING GPS OBSERVATIONS ON THE GROUND.

MONUMENT TIE LINES

TAG #	BEARING	DISTANCE
L32	N40° 29' 49.33"W	210.66'
L38	S82° 20' 30.59"W	1259.11'
L39	S49° 47' 12.10"E	768.36'
L40	S00° 00' 00.00"E	67.84'
L41	N42° 05' 54.10"E	986.15'

DECLARATION

I, W. DANIEL BOIVIN, BEING AN ARIZONA REGISTERED LAND SURVEYOR, DECLARE THIS SURVEY PLAT WAS PREPARED FROM A GROUND SURVEY PERFORMED BY UNDER MY SUPERVISION, THAT THE SURVEY PLAT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THAT THIS SURVEY PLAT MEETS OR EXCEEDS THE ARIZONA BOUNDARY SURVEY MINIMUM STANDARDS.



W. DANIEL BOIVIN, ARIZONA RES NO. 21756
12/3/2020
DATE

wood.

ENVIRONMENT & INFRASTRUCTURE SOLUTIONS
8519 JEFFERSON NE
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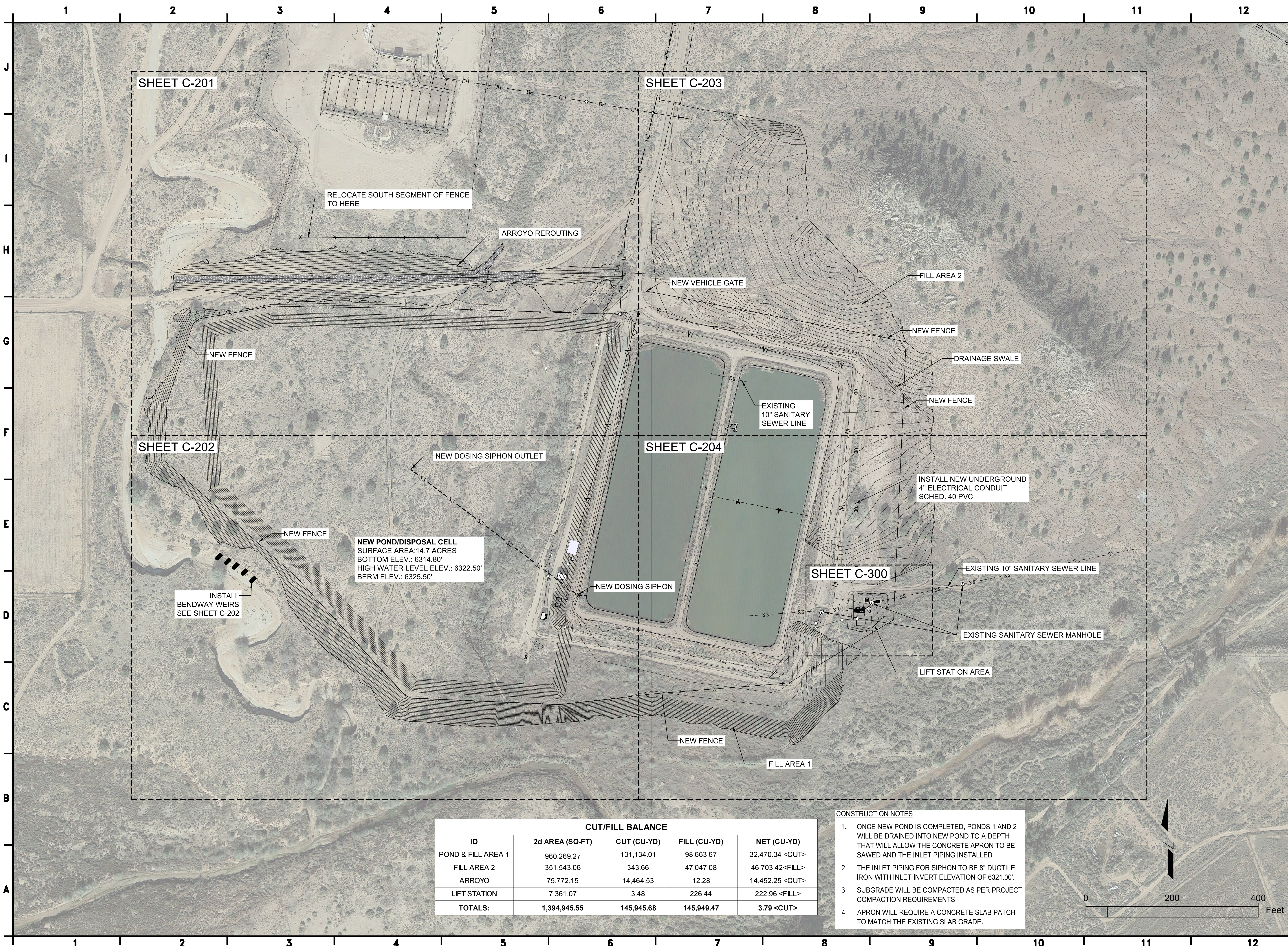
NO.	DATE	BY	APPROVED

SURVEYED BY: WOOD - KH
DRAWN BY: WOOD - VE
CHECKED BY: WOOD - BM
APPROVED BY: WOOD - WDB
DATE: 12/03/2020

SHEET TITLE:
PLAT MAP

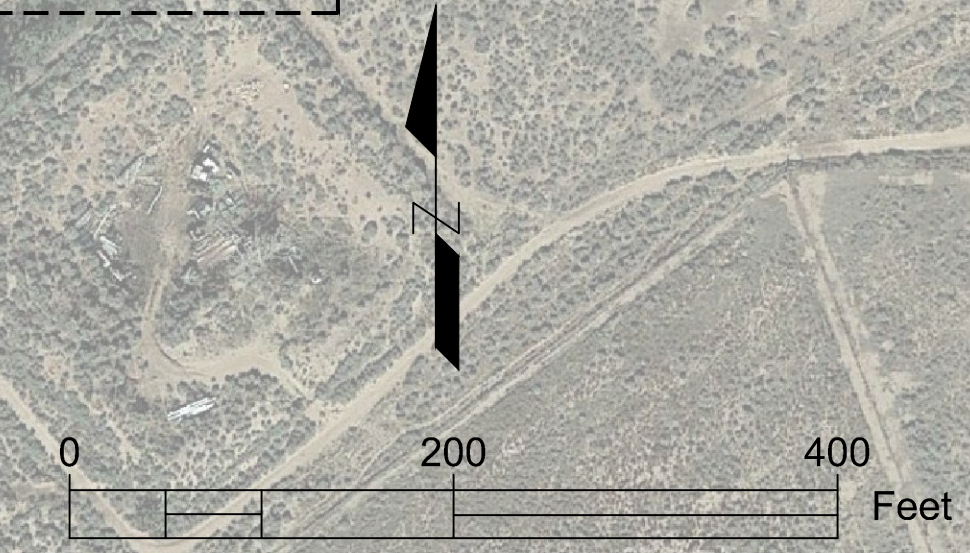
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SHEET 4 OF 19 SHEETS

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CUT/FILL BALANCE				
ID	2d AREA (SQ-FT)	CUT (CU-YD)	FILL (CU-YD)	NET (CU-YD)
POND & FILL AREA 1	960,269.27	131,134.01	98,663.67	32,470.34 <CUT>
FILL AREA 2	351,543.06	343.66	47,047.08	46,703.42 <FILL>
ARROYO	75,772.15	14,464.53	12.28	14,452.25 <CUT>
LIFT STATION	7,361.07	3.48	226.44	222.96 <FILL>
TOTALS:	1,394,945.55	145,945.68	145,949.47	3.79 <CUT>

- CONSTRUCTION NOTES**
- ONCE NEW POND IS COMPLETED, PONDS 1 AND 2 WILL BE DRAINED INTO NEW POND TO A DEPTH THAT WILL ALLOW THE CONCRETE APRON TO BE SAWED AND THE INLET PIPING INSTALLED.
 - THE INLET PIPING FOR SIPHON TO BE 8" DUCTILE IRON WITH INLET INVERT ELEVATION OF 6321.00'.
 - SUBGRADE WILL BE COMPACTED AS PER PROJECT COMPACTION REQUIREMENTS.
 - APRON WILL REQUIRE A CONCRETE SLAB PATCH TO MATCH THE EXISTING SLAB GRADE.



wood.

ENVIRONMENT & INFRASTRUCTURE SOLUTIONS
8519 JEFFERSON NE
ALBUQUERQUE, NM 87113
TEL: (505) 821-1801

PROFESSIONAL ENGINEER
Robert B. McVicker
OK15709
OKLAHOMA

FINAL

PROJECT:
GANADO WWTP EXPANSION FINAL DESIGN

NAVAJO TRIBAL UTILITY AUTHORITY
PO BOX 170
FT. DEFIANCIE, AZ 86504
WOOD PROJECT No:
1951700034

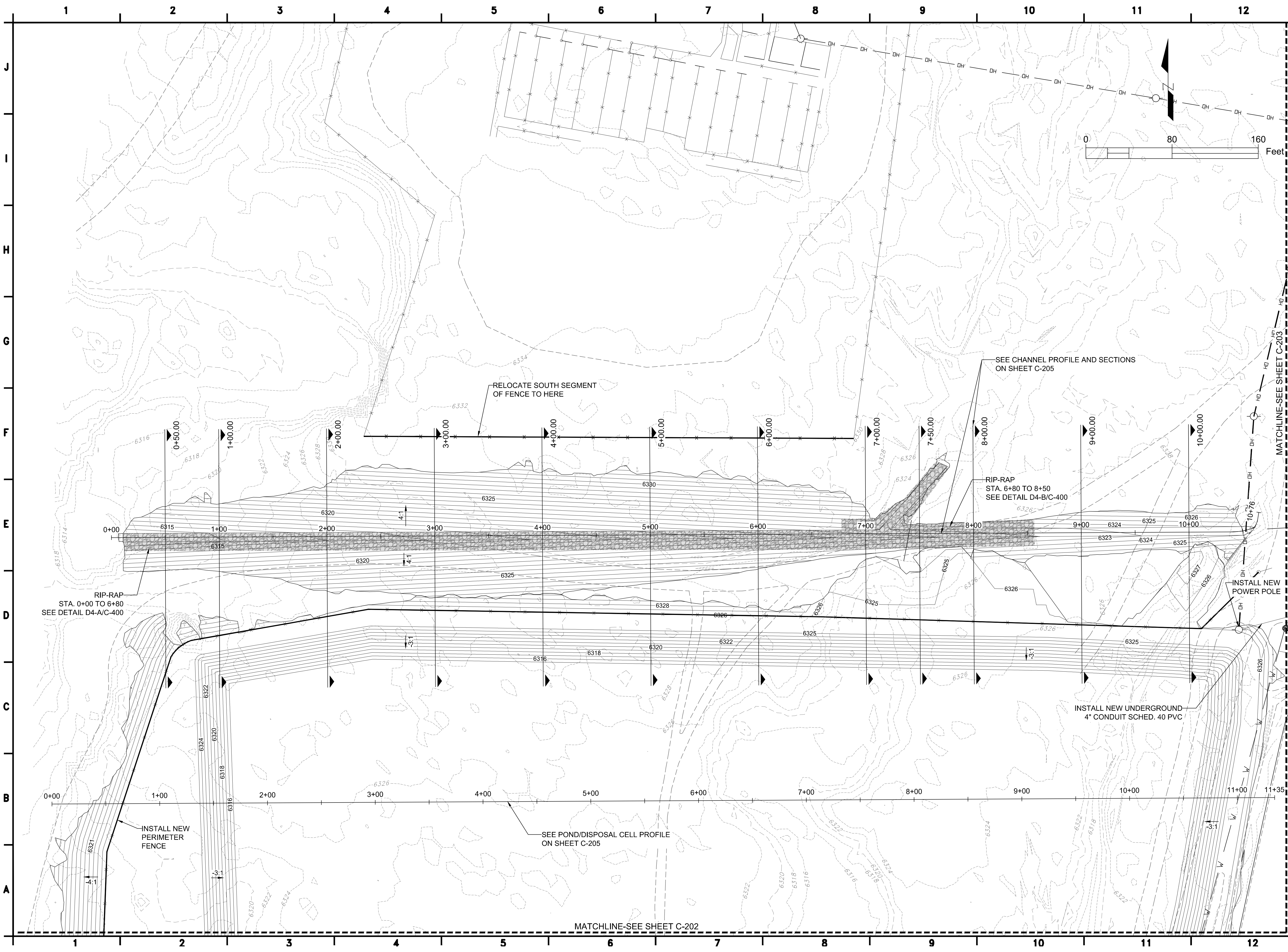
REVISIONS			
NO.	DATE	BY	APPROVED

DESIGNED BY:	WOOD -
DRAWN BY:	WOOD -
CHECKED BY:	WOOD -
APPROVED BY:	WOOD -
DATE:	12/03/2020

SHEET TITLE:
PROPOSED GRADING PLAN KEY MAP

SHEET NUMBER:	REV. #
C-200	
SHEET 5 OF 19 SHEETS	

P:\consulting\projects\19\19-517-00034.NTUA-Ganado WWF Design & Construction\5. Engineering & Design\CAD\FINAL DESIGN\6 and 10.C-201 and C-205_PROPOSED GRADING.dwg



wood.

ENVIRONMENT &
INFRASTRUCTURE SOLUTIONS
8519 JEFFERSON NE
ALBUQUERQUE, NM 87113
TEL: (505) 821-1801



FINAL

PROJECT:
**GANADO WWTP
EXPANSION FINAL
DESIGN**



**NAVAJO TRIBAL
UTILITY AUTHORITY**
PO BOX 170
FT. DEFIANC, AZ 86504
WOOD PROJECT No:
1951700034

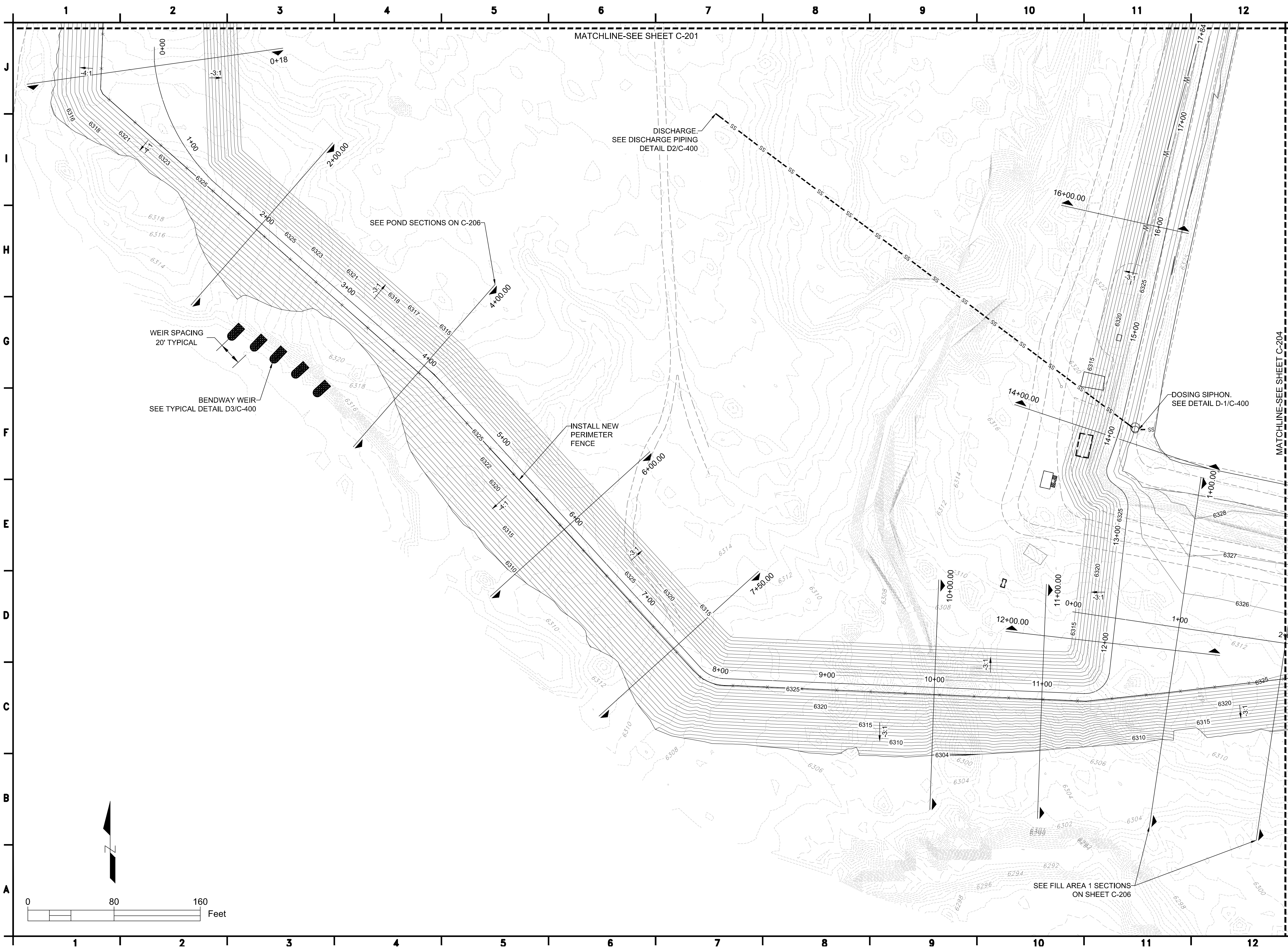
REVISIONS			
NO.	DATE	BY	APPROVED

DESIGNED BY:	WOOD -
DRAWN BY:	WOOD -
CHECKED BY:	WOOD -
APPROVED BY:	WOOD -
DATE:	12/03/2020

SHEET TITLE:
**PROPOSED
GRADING PLAN
1 OF 4**

SHEET NUMBER:	REV. #
C-201	
SHEET 6 OF 19 SHEETS	

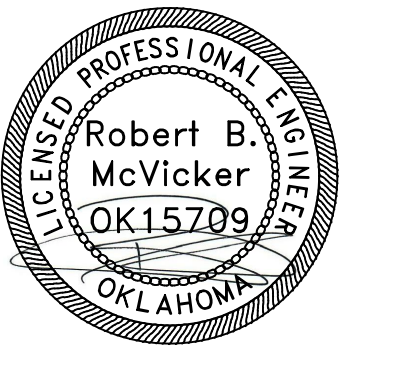
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MATCHLINE-SEE SHEET C-201

wood.

ENVIRONMENT & INFRASTRUCTURE SOLUTIONS
8519 JEFFERSON NE
ALBUQUERQUE, NM 87113
TEL: (505) 821-1801



FINAL

PROJECT:
**GANADO WWTP
EXPANSION FINAL
DESIGN**



**NAVAJO TRIBAL
UTILITY AUTHORITY**
PO BOX 170
FT. DEFIANCE, AZ 86504
WOOD PROJECT No:
1951700034

REVISIONS			
NO.	DATE	BY	APPROVED

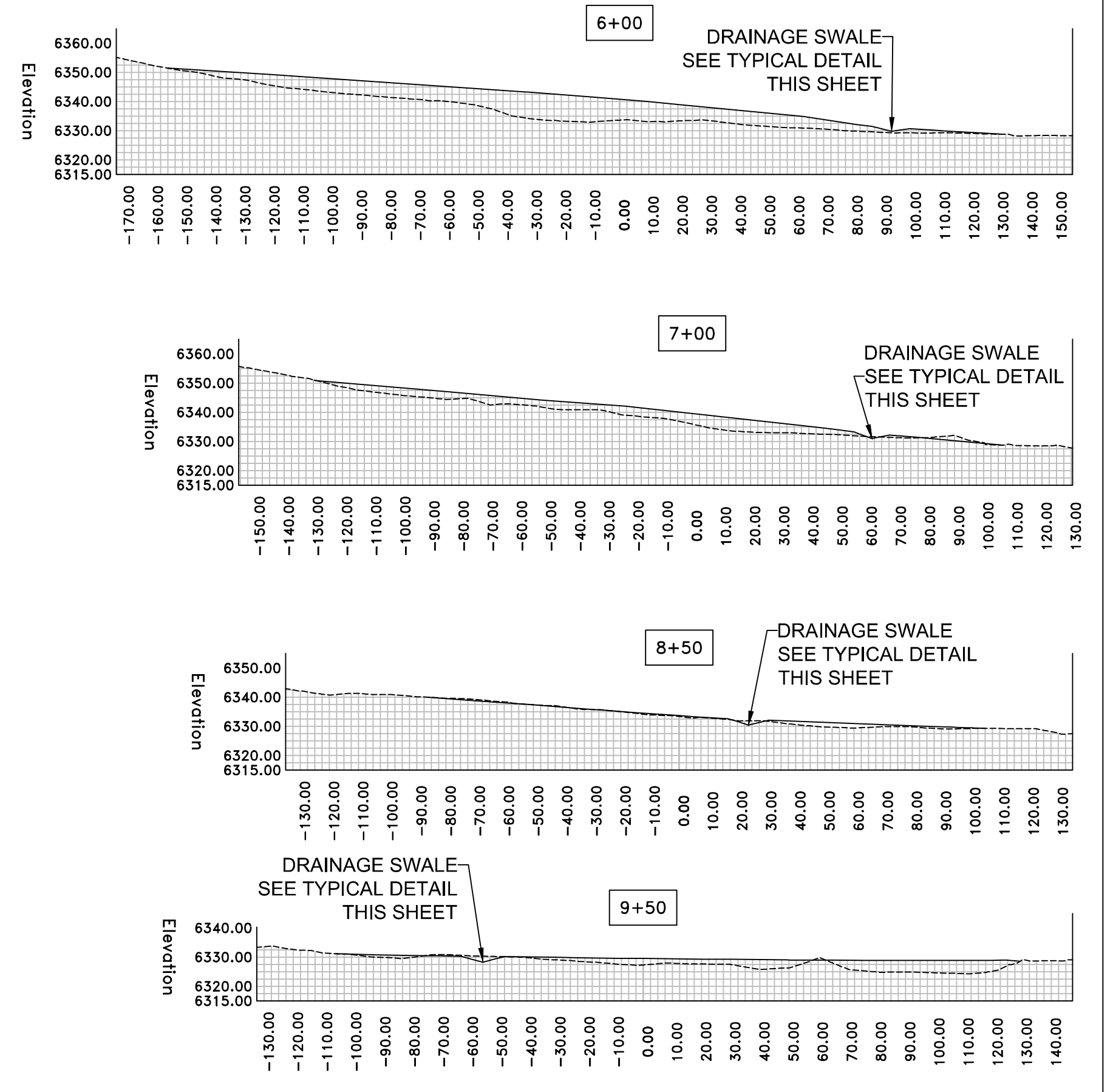
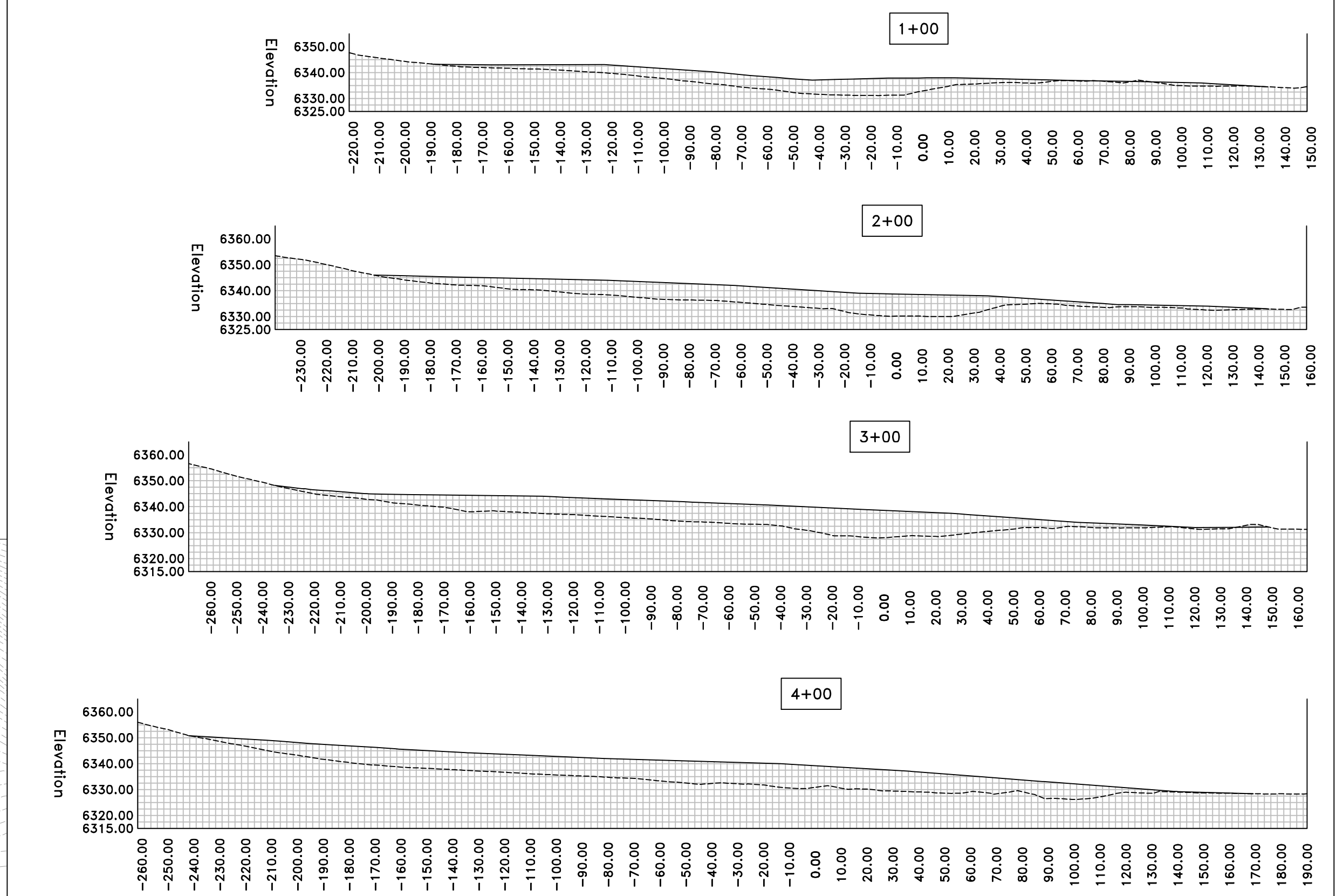
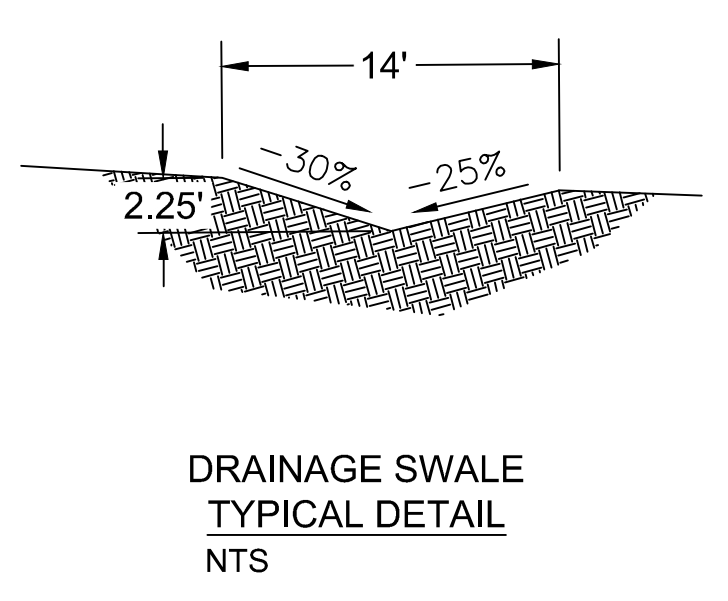
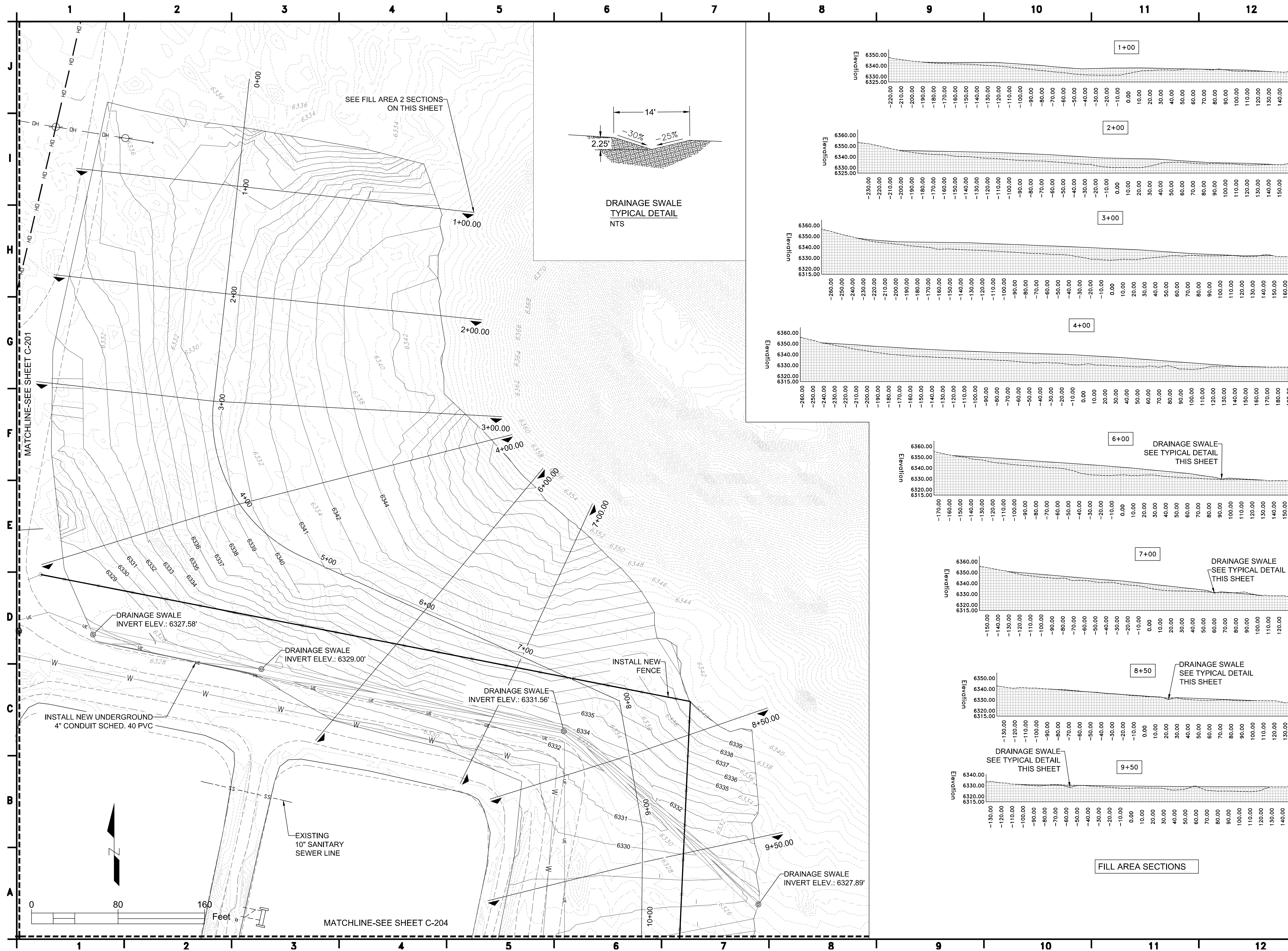
DESIGNED BY:	WOOD -
DRAWN BY:	WOOD -
CHECKED BY:	WOOD -
APPROVED BY:	WOOD -
DATE:	12/03/2020

SHEET TITLE:
**PROPOSED
GRADING PLAN
2 OF 4**

SHEET NUMBER:	REV. #
C-202	
SHEET 7 OF 19 SHEETS	

MATCHLINE-SEE SHEET C-204

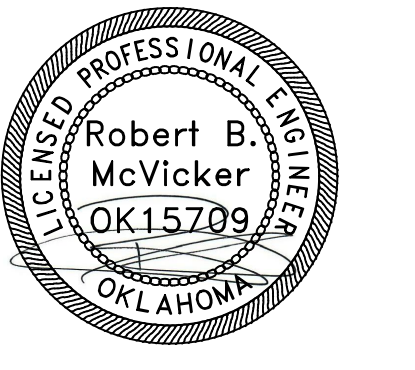
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FILL AREA SECTIONS

wood.

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8519 JEFFERSON NE
ALBUQUERQUE, NM 87113
TEL: (505) 821-1801



FINAL

PROJECT:
**GANADO WWTP
EXPANSION FINAL
DESIGN**



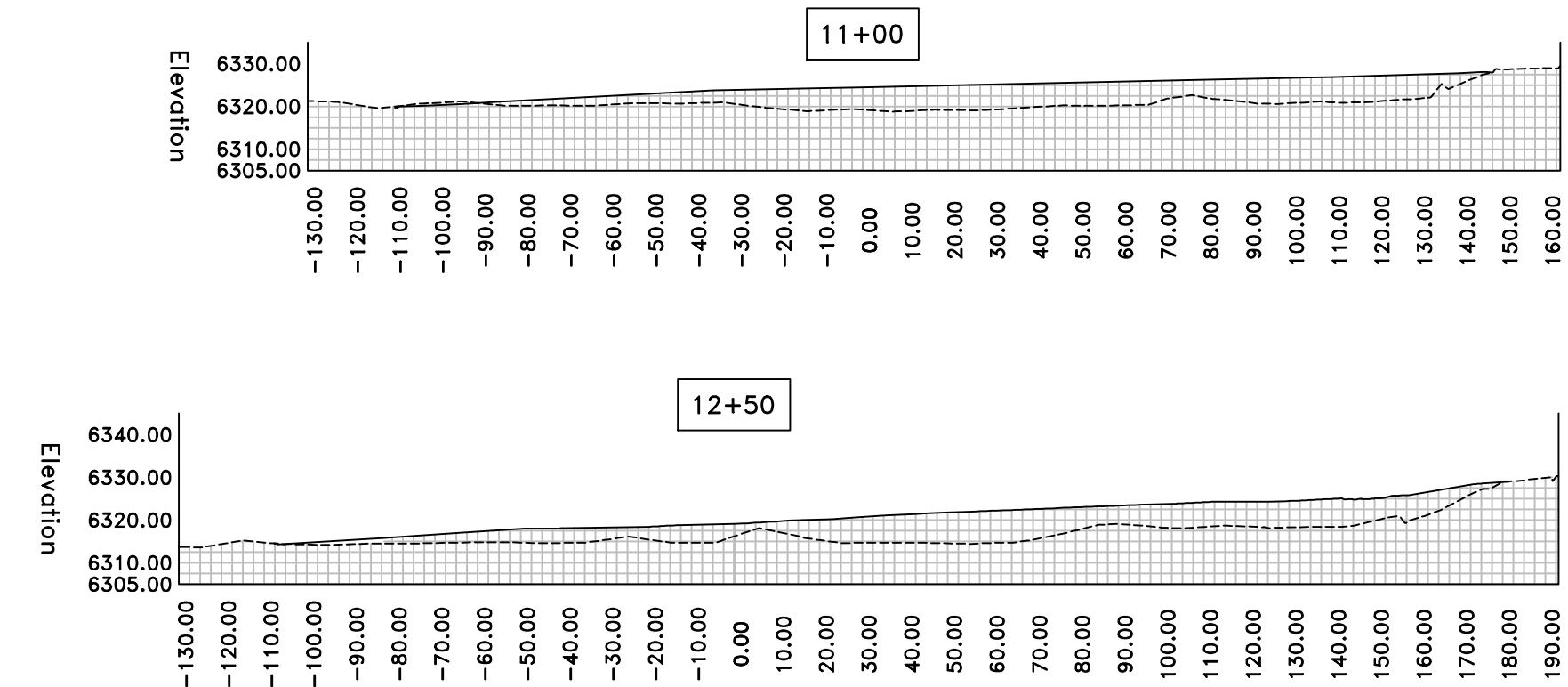
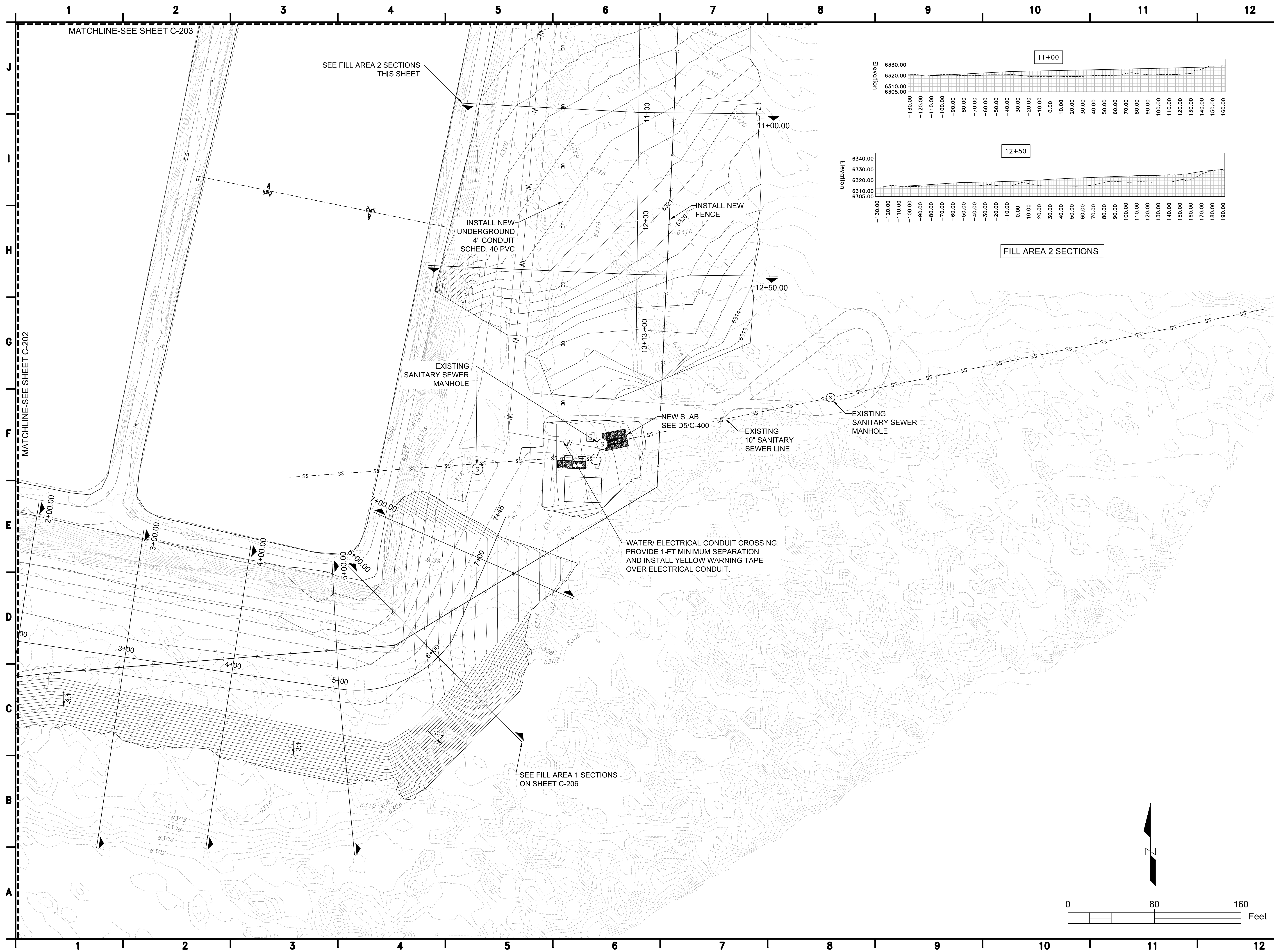
**NAVAJO TRIBAL
UTILITY AUTHORITY**
PO BOX 170
FT. DEFIANC, AZ 86504
WOOD PROJECT No:
1951700034

REVISIONS			
NO.	DATE	BY	APPROVED

DESIGNED BY:	WOOD -
DRAWN BY:	WOOD -
CHECKED BY:	WOOD -
APPROVED BY:	WOOD -
DATE:	12/03/2020

SHEET TITLE:
**PROPOSED
GRADING PLAN
3 OF 4**

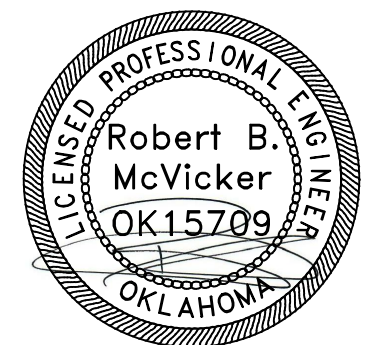
SHEET NUMBER:	REV. #
C-203	
SHEET 8 OF 19 SHEETS	



FILL AREA 2 SECTIONS

wood.

ENVIRONMENT &
INFRASTRUCTURE SOLUTIONS
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ALBUQUERQUE, NM 87113
TEL: (505) 821-1801



FINAL

PROJECT:
**GANADO WWTP
EXPANSION FINAL
DESIGN**



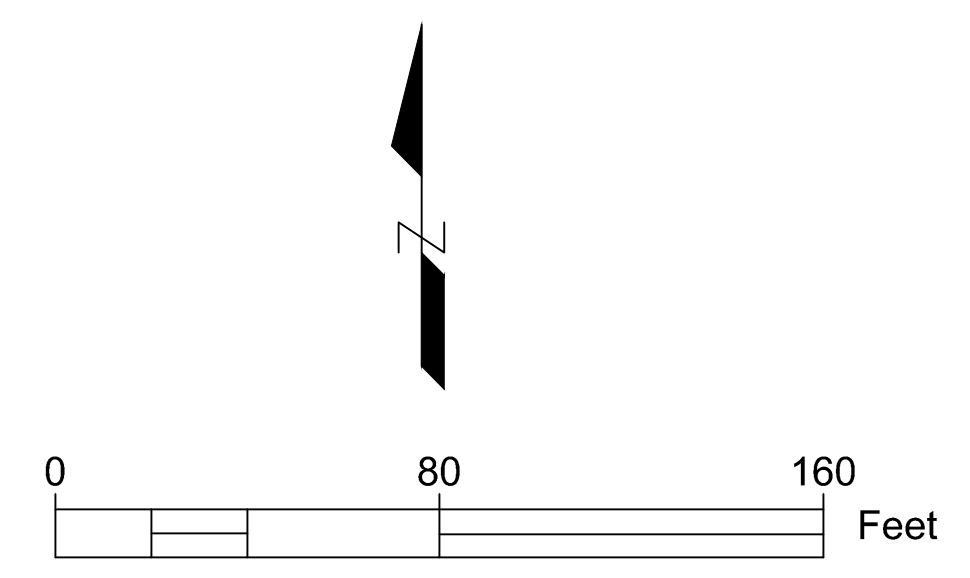
**NAVAJO TRIBAL
UTILITY AUTHORITY**
PO BOX 170
FT. DEFIANCE, AZ 86504
WOOD PROJECT No:
1951700034

REVISIONS			
NO.	DATE	BY	APPROVED

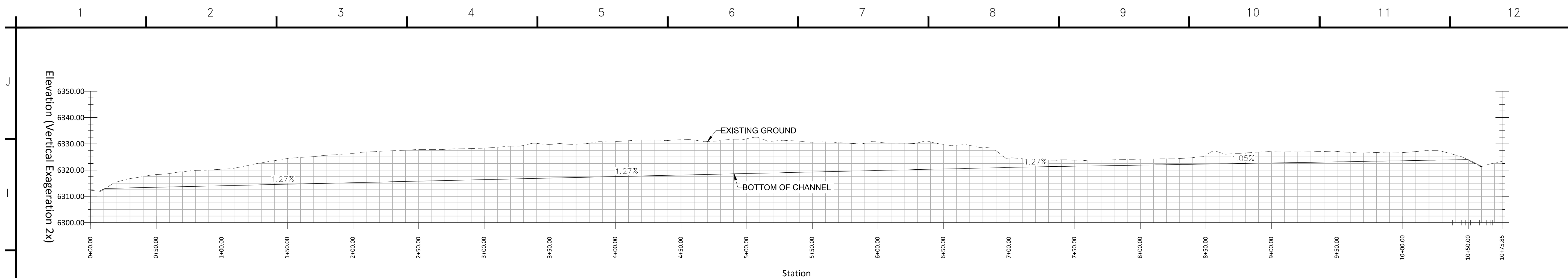
DESIGNED BY:	WOOD -
DRAWN BY:	WOOD -
CHECKED BY:	WOOD -
APPROVED BY:	WOOD -
DATE:	12/03/2020

SHEET TITLE:
**PROPOSED
GRADING PLAN
4 OF 4**

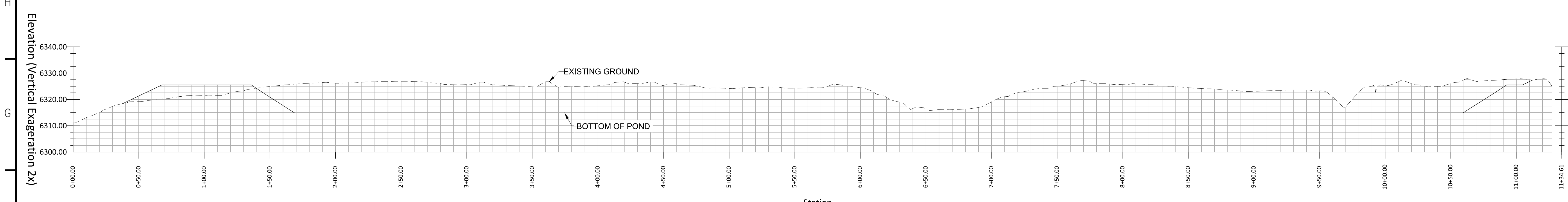
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C-204	
SHEET 9 OF 19 SHEETS	



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CHANNEL PROFILE VIEW



POND/DISPOSAL CELL PROFILE VIEW



CHANNEL SECTIONS

wood.

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8519 JEFFERSON NE
ALBUQUERQUE, NM 87113
TEL: (505) 821-1801



FINAL

PROJECT:
**GANADO WWTP
EXPANSION FINAL
DESIGN**



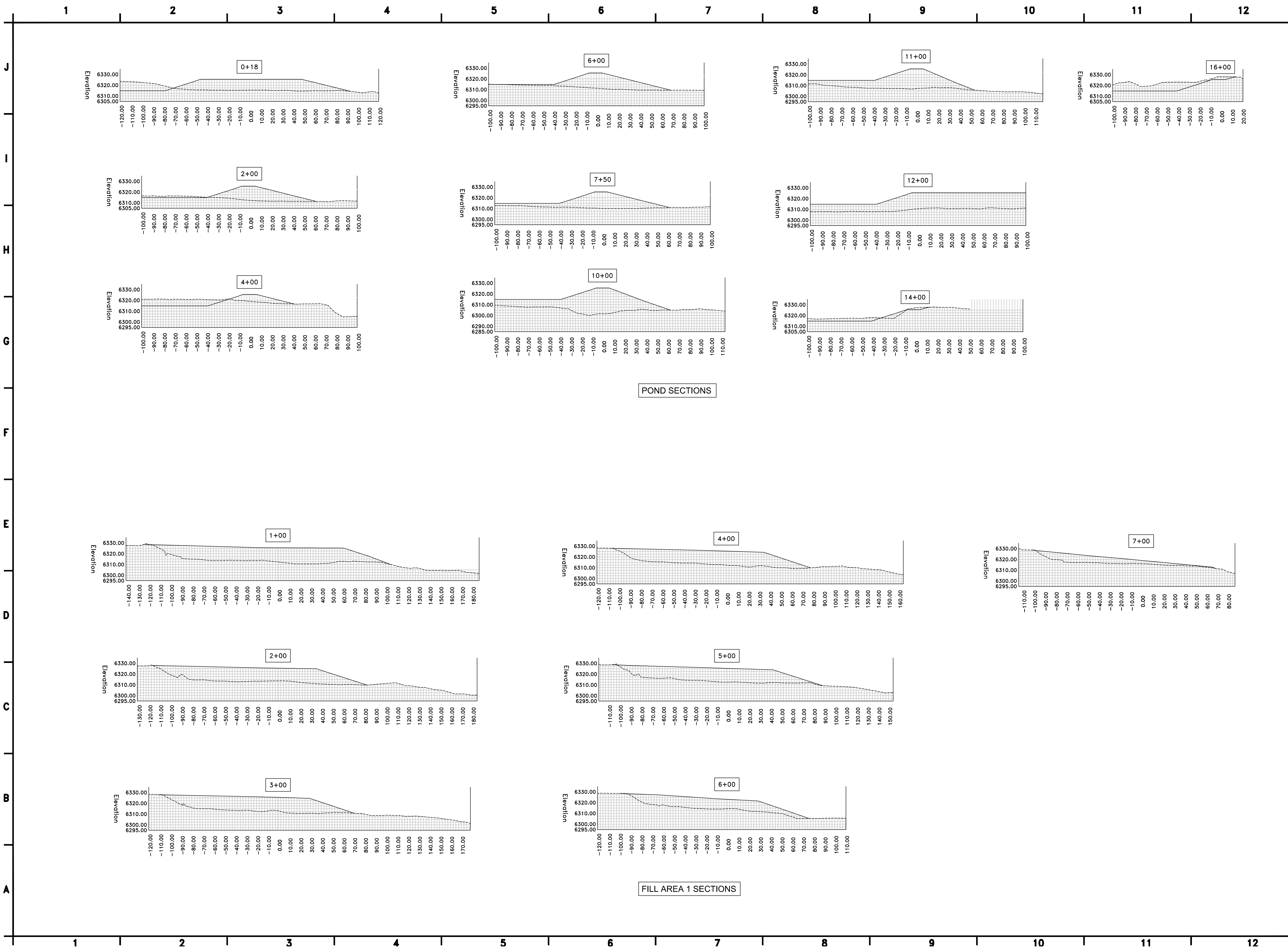
**NAVAJO TRIBAL
UTILITY AUTHORITY**
PO BOX 170
FT. DEFIANCE, AZ 86504
WOOD PROJECT No:
1951700034

REVISIONS			
NO.	DATE	BY	APPROVED

DESIGNED BY:	WOOD -
DRAWN BY:	WOOD -
CHECKED BY:	WOOD -
APPROVED BY:	WOOD -
DATE:	12/03/2020

SHEET TITLE:
**CHANNEL GRADING
PROFILE AND
SECTIONS**

SHEET NUMBER:	REV. #
C-205	
SHEET 10 OF 19 SHEETS	



wood.

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FINAL

PROJECT:
**GANADO WWTP
EXPANSION FINAL
DESIGN**



**NAVAJO TRIBAL
UTILITY AUTHORITY**
PO BOX 170
FT. DEFIANCIE, AZ 86504
WOOD PROJECT No:
1951700034

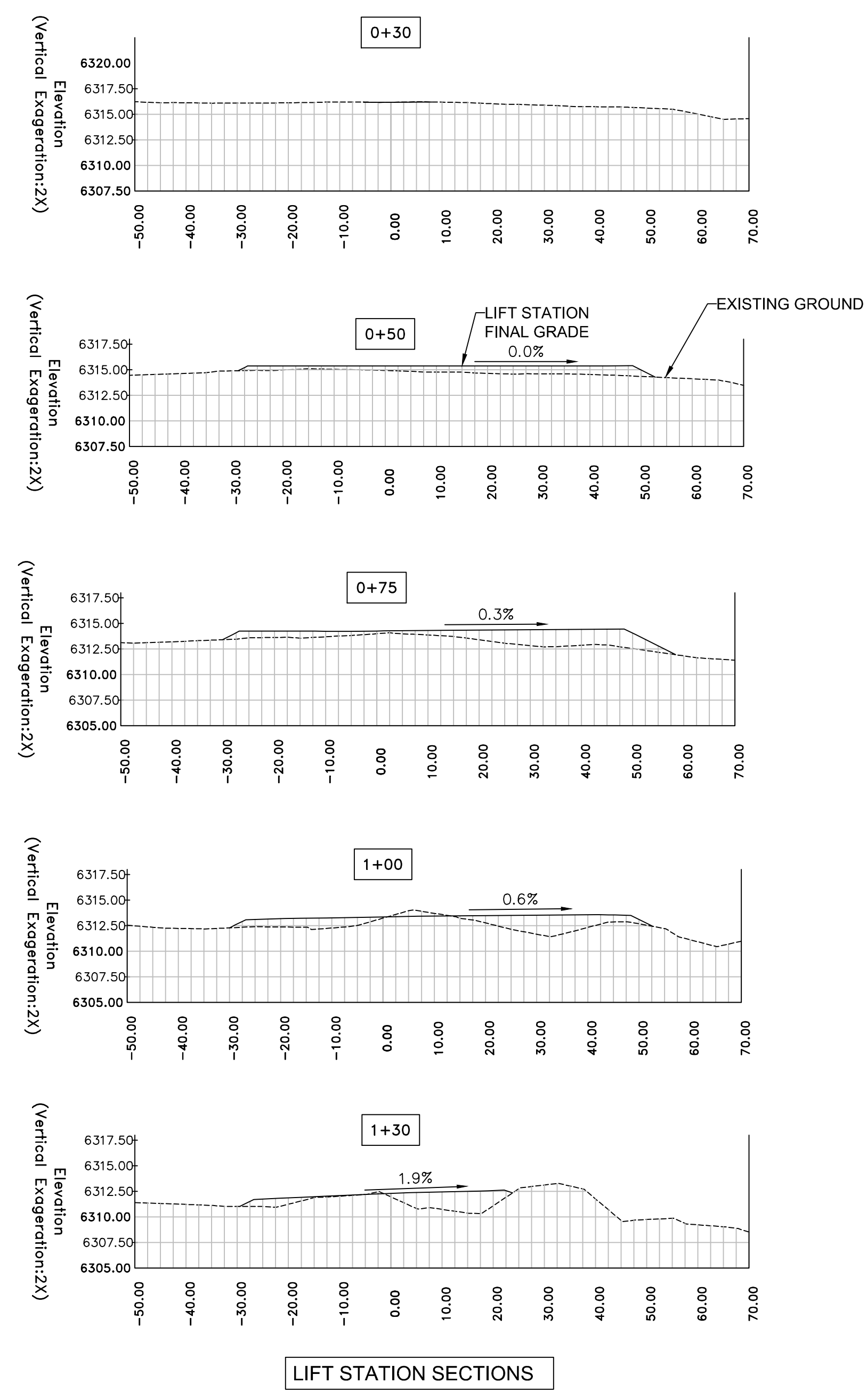
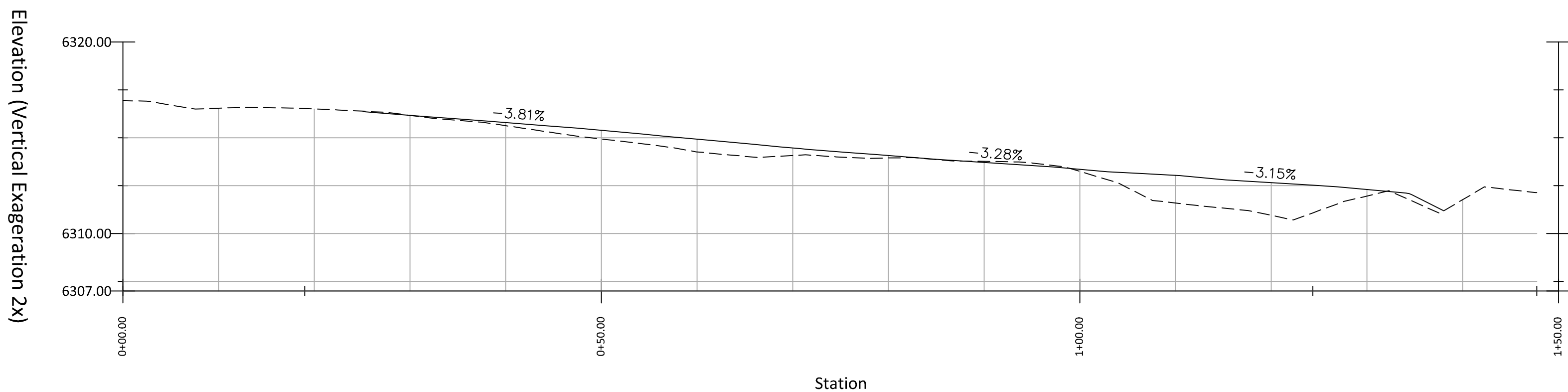
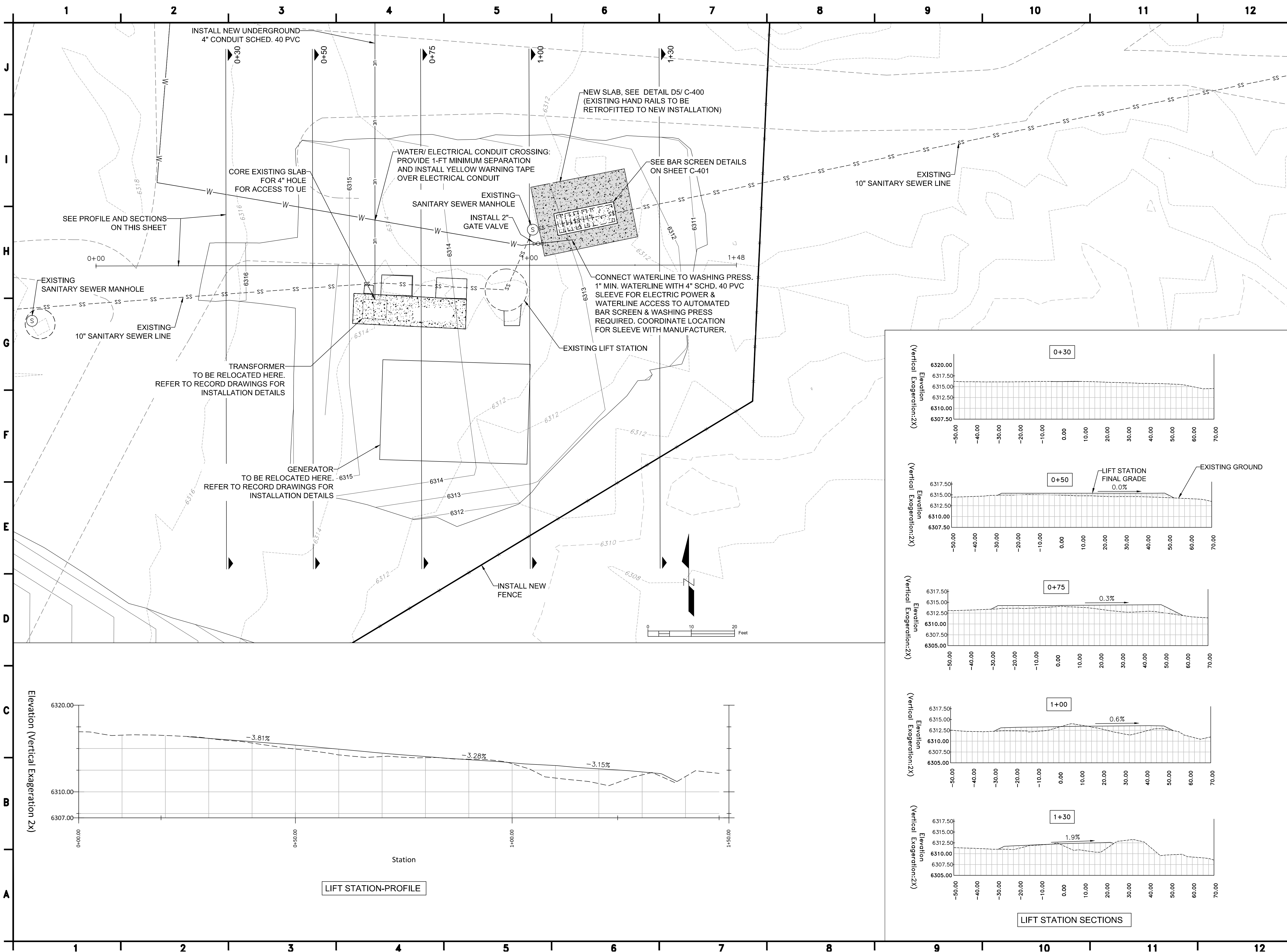
REVISIONS			
NO.	DATE	BY	APPROVED

DESIGNED BY:	WOOD -
DRAWN BY:	WOOD -
CHECKED BY:	WOOD -
APPROVED BY:	WOOD -
DATE:	12/03/2020

SHEET TITLE:
**GRADING
SECTIONS**

SHEET NUMBER:	REV. #
C-206	
SHEET 11 OF 19 SHEETS	

P:\consulting\projects\19\19-517-00034-NTUA-Ganado WWF Design & Construction\5. Engineering & Design\CAD\FINAL DESIGN\12.C-300_LIFT STATION GRADING PLAN.dwg



wood.

ENVIRONMENT & INFRASTRUCTURE SOLUTIONS
8519 JEFFERSON NE
ALBUQUERQUE, NM 87113
TEL: (505) 821-1801



FINAL

PROJECT:
**GANADO WWTP
EXPANSION FINAL
DESIGN**



**NAVAJO TRIBAL
UTILITY AUTHORITY**
PO BOX 170
FT. DEFIANCE, AZ 86504
WOOD PROJECT No:
1951700034

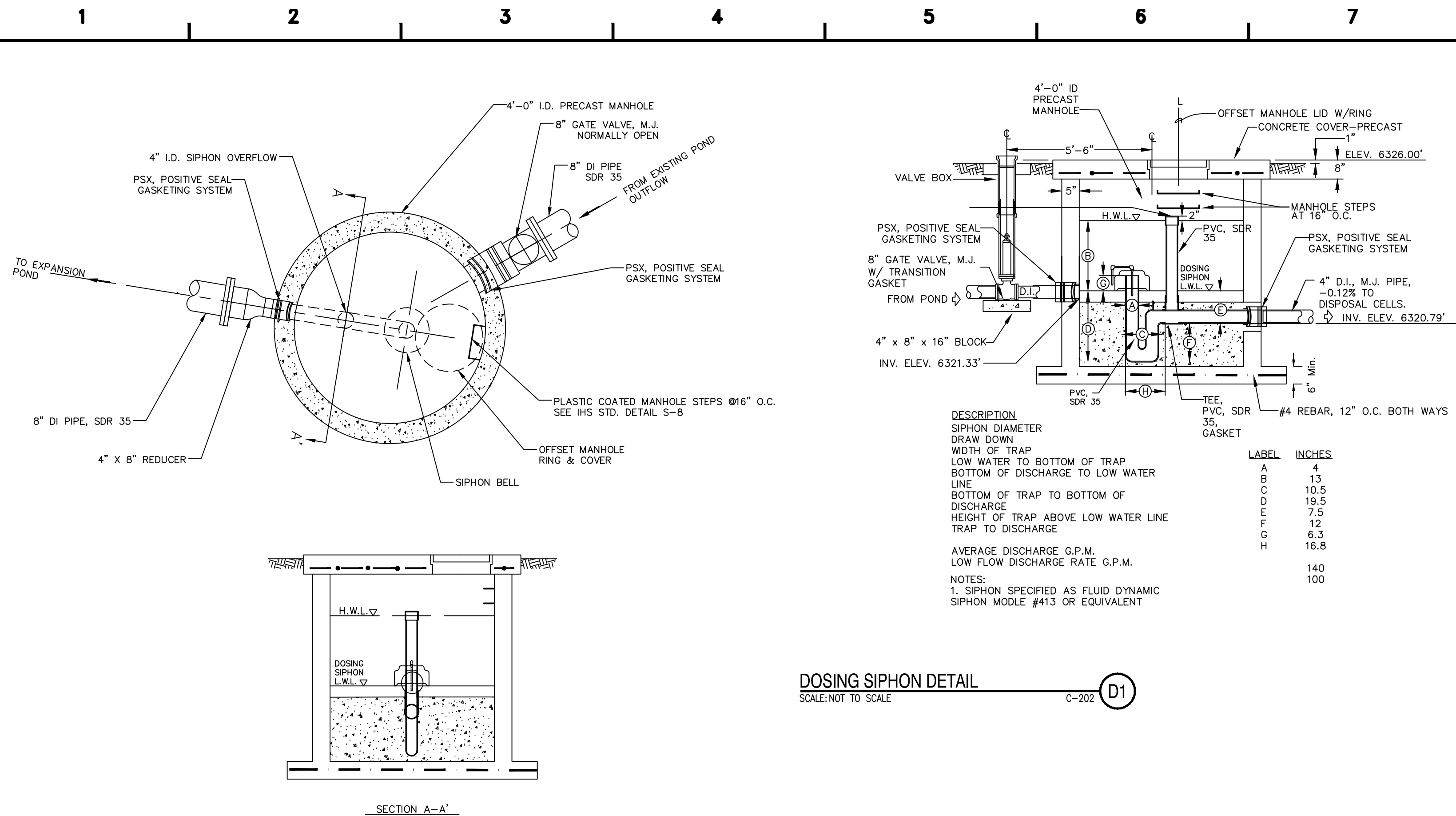
REVISIONS			
NO.	DATE	BY	APPROVED

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DRAWN BY:	WOOD -
CHECKED BY:	WOOD -
APPROVED BY:	WOOD -
DATE:	12/03/2020

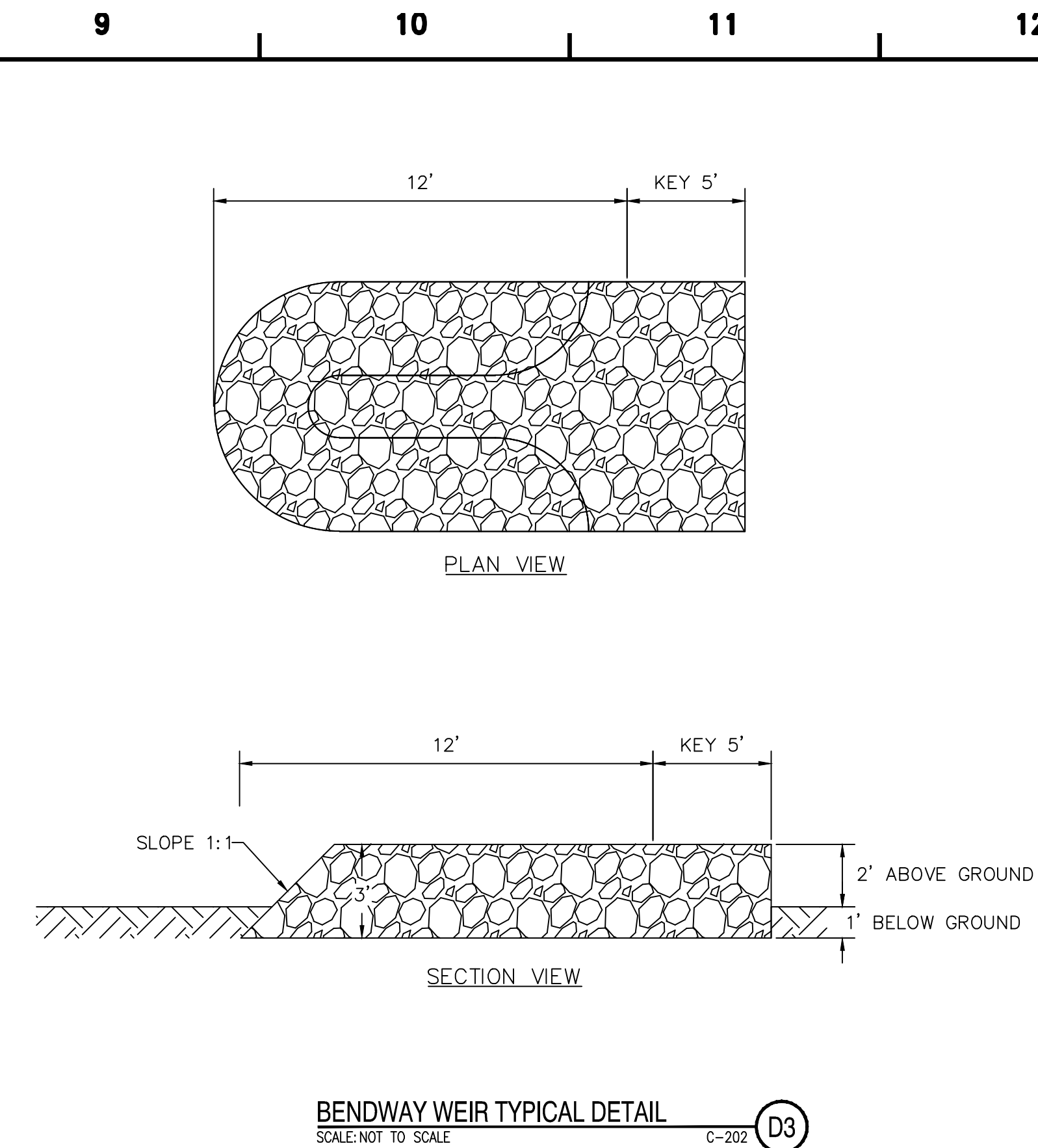
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**LIFT STATION
GRADING PLAN,
PROFILE,
& SECTIONS**

SHEET NUMBER:	REV. #
C-300	
SHEET 12 OF 19 SHEETS	

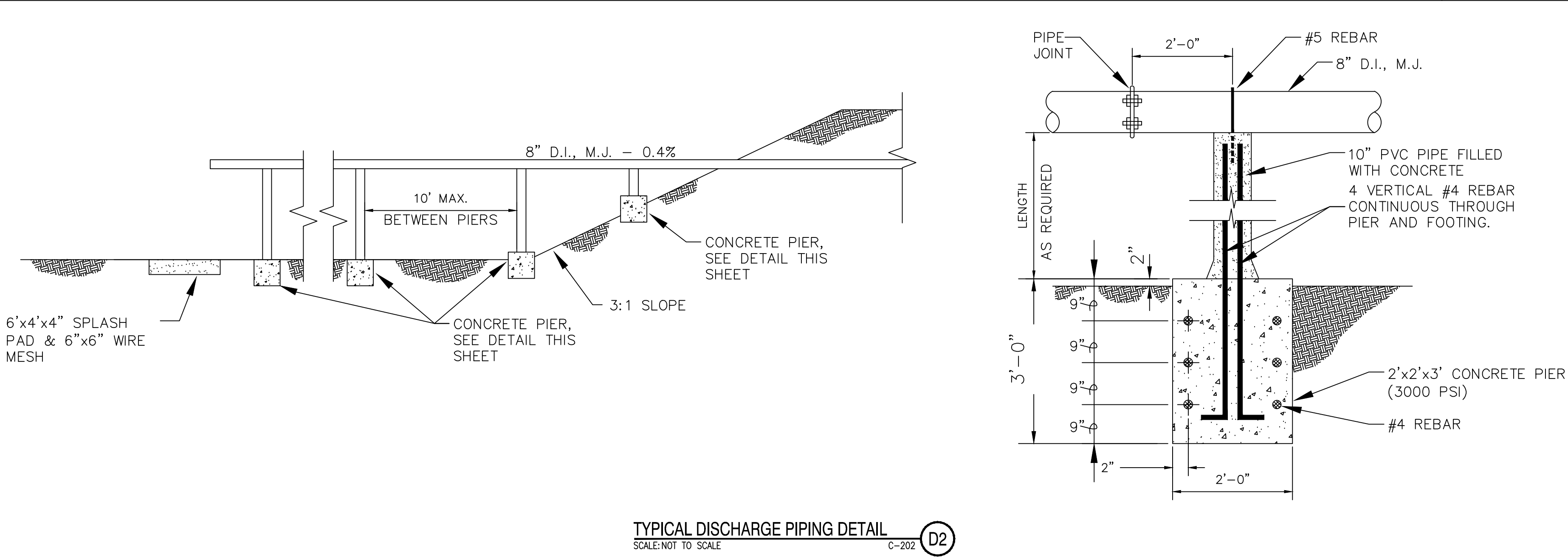
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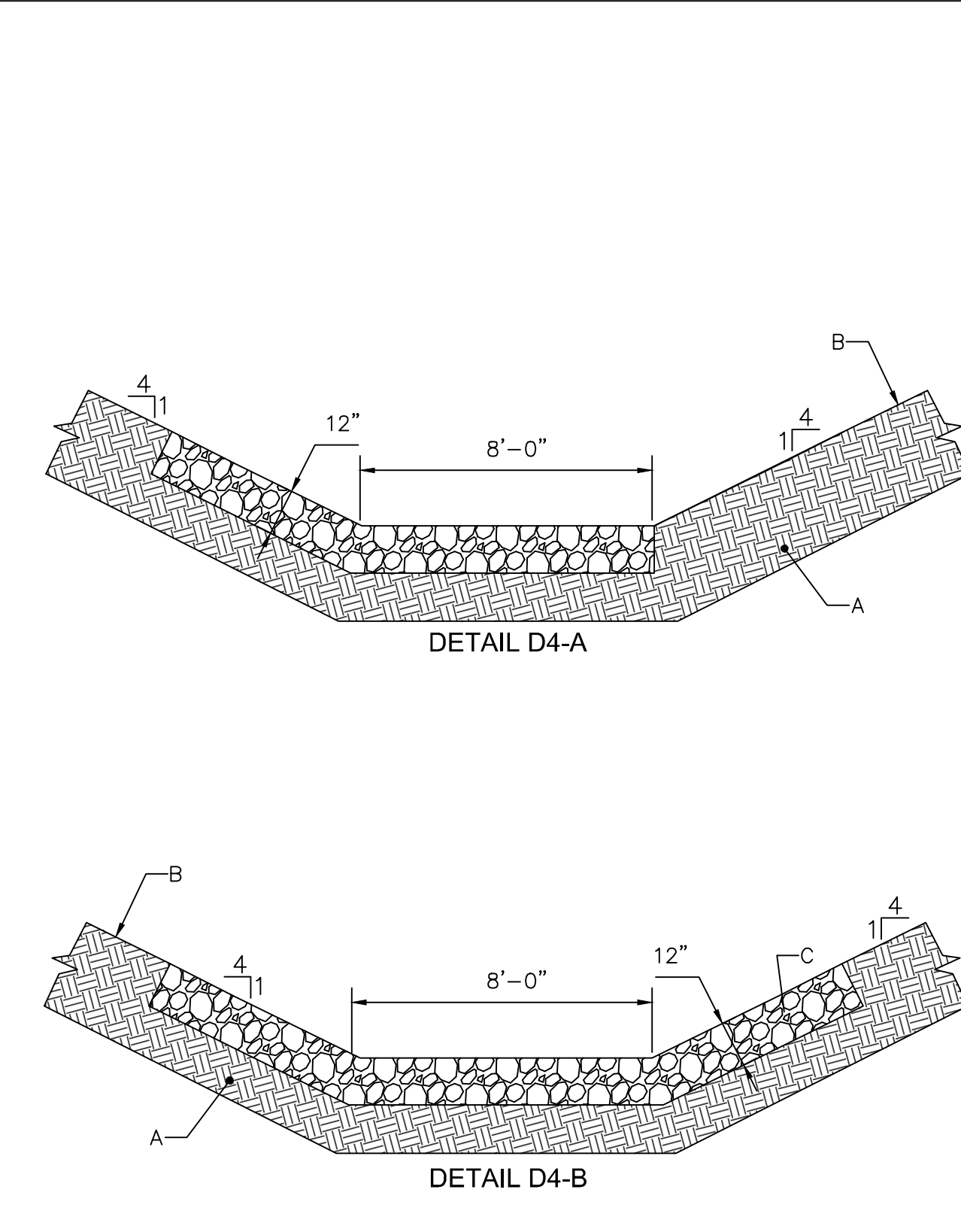
DOSING SIPHON DETAIL
SCALE: NOT TO SCALE
C-202 (D1)



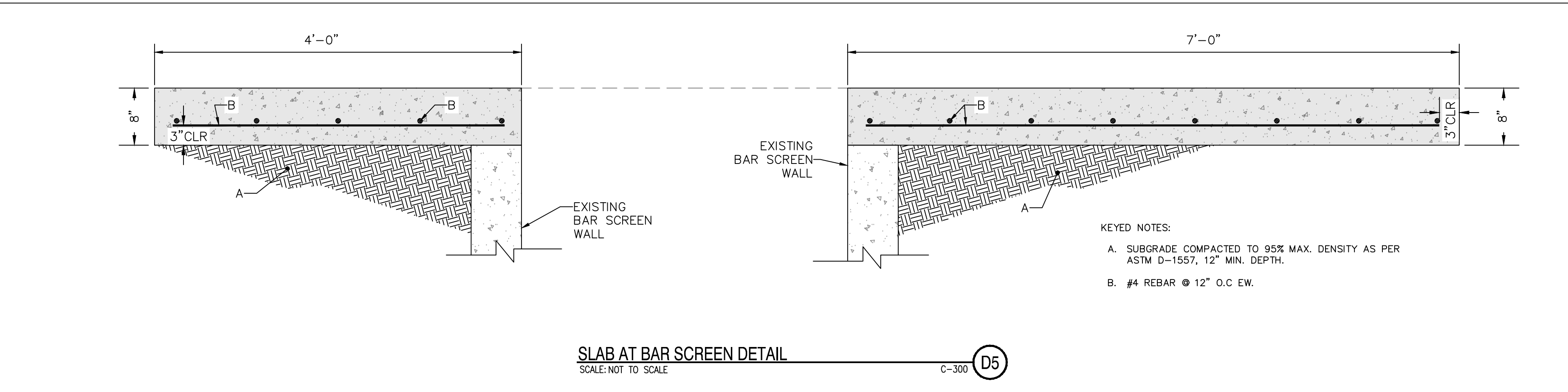
BENDWAY WEIR TYPICAL DETAIL
SCALE: NOT TO SCALE
C-202 (D3)



TYPICAL DISCHARGE PIPING DETAIL
SCALE: NOT TO SCALE
C-202 (D2)



RIP-RAP KEYS NOTES:
A. SUBGRADE COMPACTED TO 95% MAX. DENSITY AS PER ASTM D-1557, 6" MIN. DEPTH.
B. FILL AND COMPACT AFTER PLACEMENT OF RIP-RAP.
C. TOTAL RIPRAP REQUIRED: 17,755 SQ-FT
658 CU-YD
RIP-RAP DETAIL
SCALE: NOT TO SCALE
C-201 (D4)



SLAB AT BAR SCREEN DETAIL
SCALE: NOT TO SCALE
C-300 (D5)

wood.

ENVIRONMENT & INFRASTRUCTURE SOLUTIONS
8519 JEFFERSON NE
ALBUQUERQUE, NM 87113
TEL: (505) 821-1801



FINAL

PROJECT:
**GANADO WWTP
EXPANSION FINAL
DESIGN**



**NAVAJO TRIBAL
UTILITY AUTHORITY**
PO BOX 170
FT. DEFIANCE, AZ 86504
WOOD PROJECT No:
1951700034

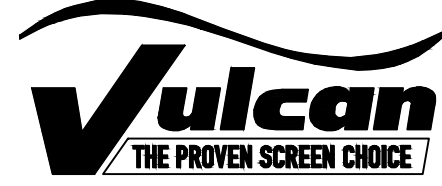
REVISIONS			
NO.	DATE	BY	APPROVED

DESIGNED BY:	WOOD -
DRAWN BY:	WOOD -
CHECKED BY:	WOOD -
APPROVED BY:	WOOD -
DATE:	12/03/2020

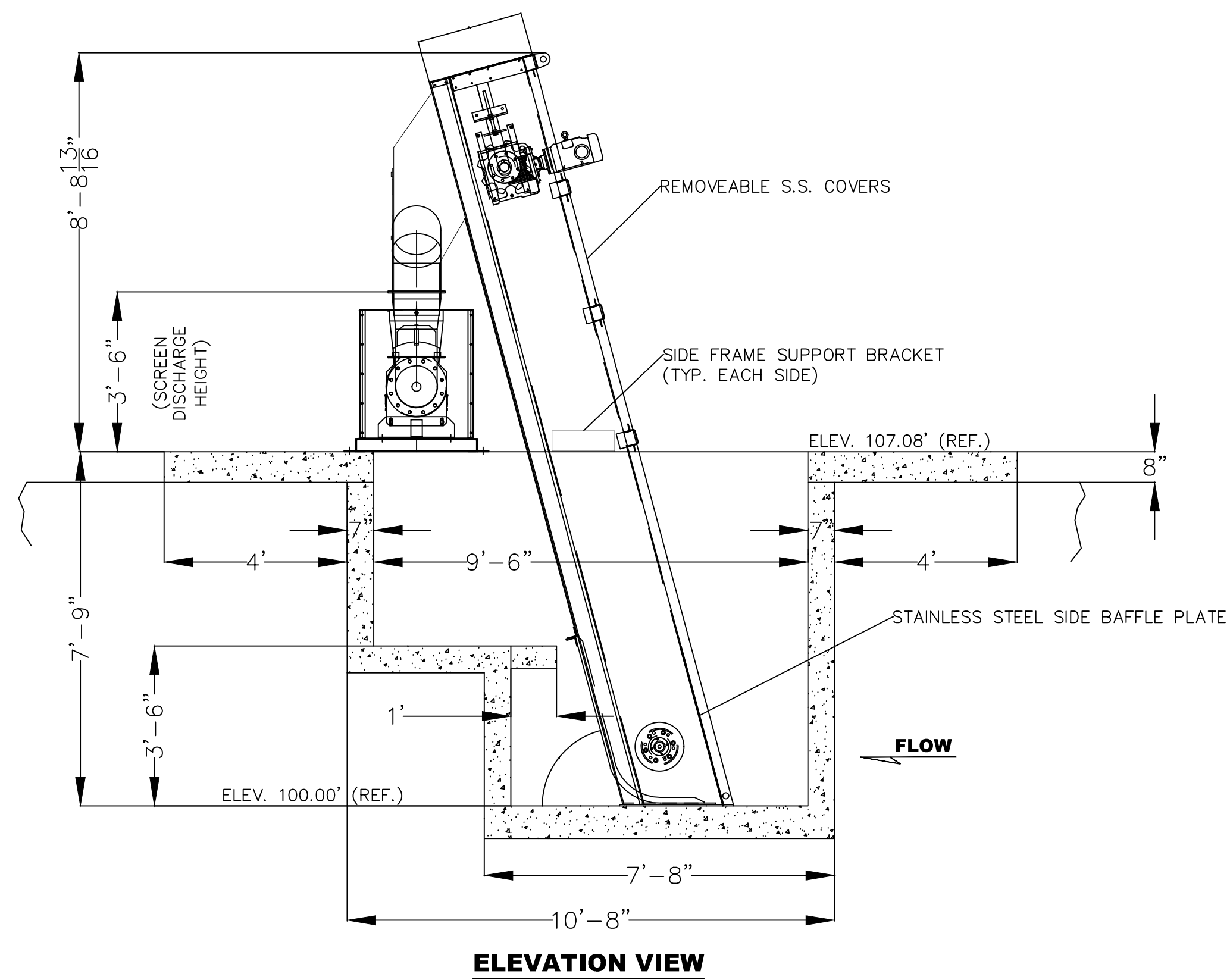
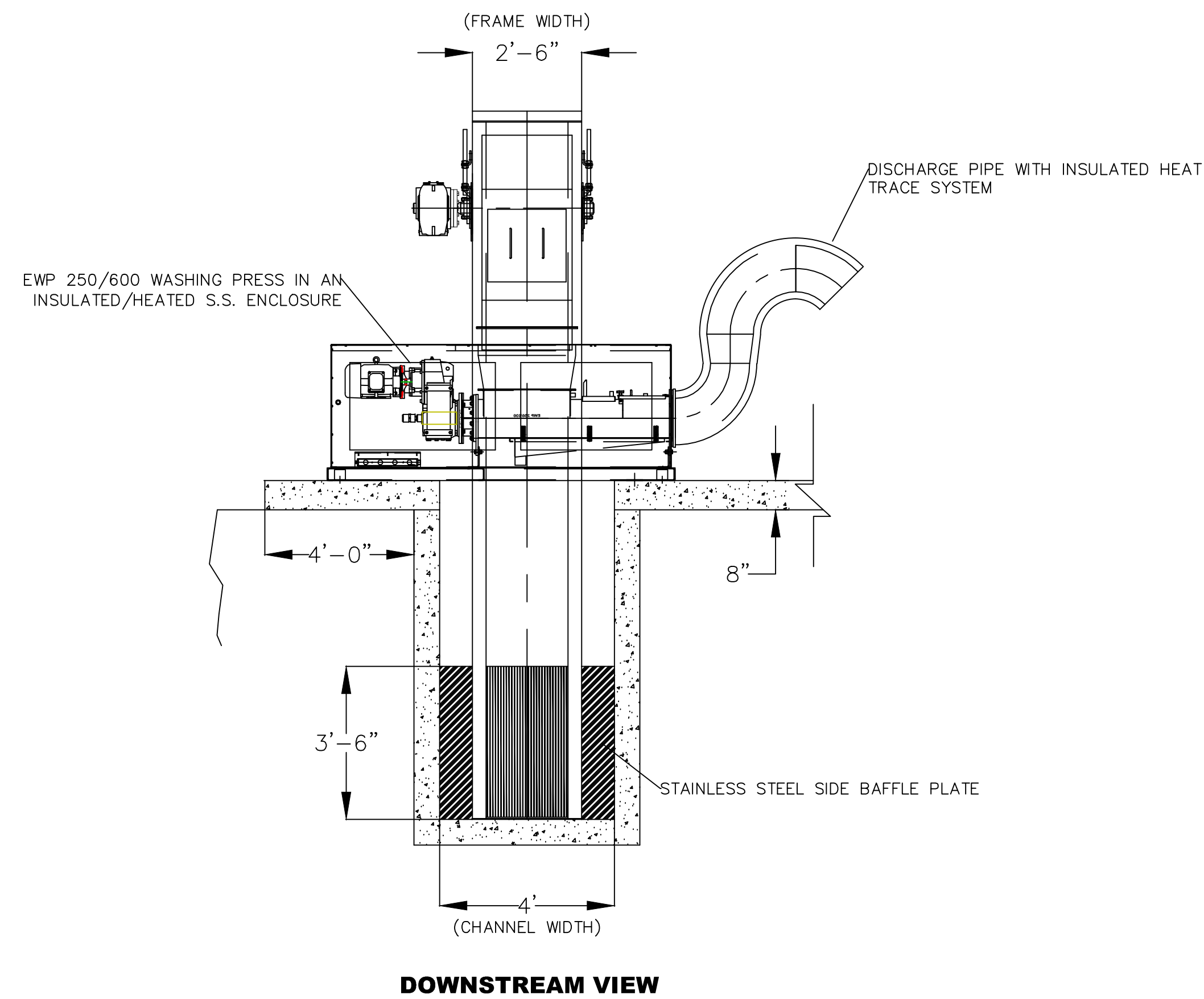
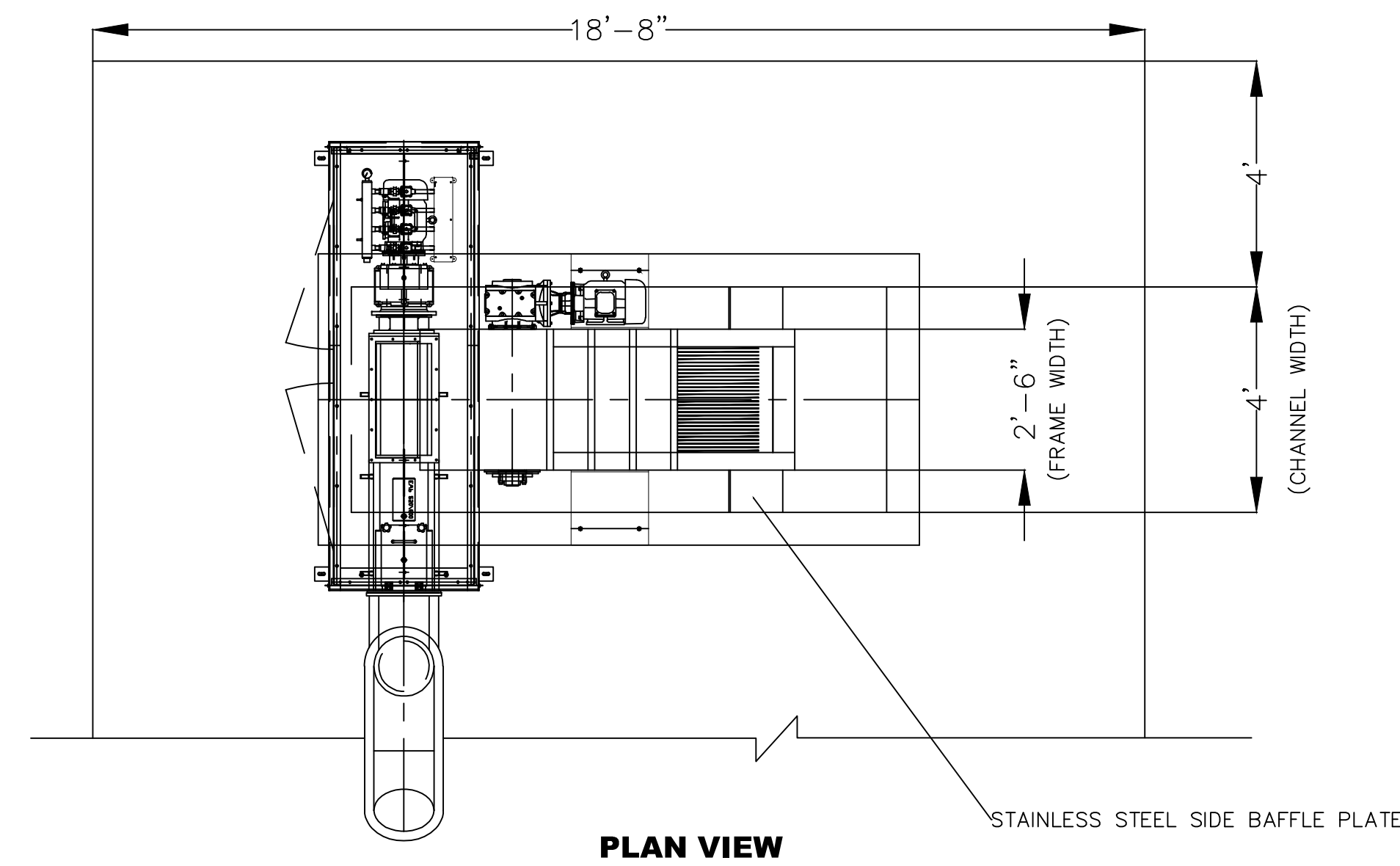
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CIVIL DETAILS

SHEET NUMBER:	REV. #
C-400	
SHEET 13 OF 19 SHEETS	

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 212 SOUTH KIRLIN STREET MISSOURI VALLEY, IA. 51555 712-642-2755 www.vulcanindustries.com		DRAWN BY: KMW REVISED BY: KMW REVISED: 7/24/2020
SCALE: 1/4"=1'-0" DATE: 5/02/19 CUST:	PRODUCT: VMR-30 MULTI-RAKE BAR SCREEN GENERAL ARRANGEMENT	DRAWING NO: VI-VMR-L1
ENG: PROJECT: NAVAJO SEWAGE DISPOSAL SYSTEM GANADO, AZ.		

PRELIMINARY



wood.

ENVIRONMENT &
INFRASTRUCTURE SOLUTIONS
8519 JEFFERSON NE
ALBUQUERQUE, NM 87113
TEL: (505) 821-1801



FINAL

PROJECT:
**GANADO WWTP
EXPANSION FINAL
DESIGN**



**NAVAJO TRIBAL
UTILITY AUTHORITY**
PO BOX 170
FT. DEFIANCE, AZ 86504
WOOD PROJECT No:
1951700034

REVISIONS			
NO.	DATE	BY	APPROVED

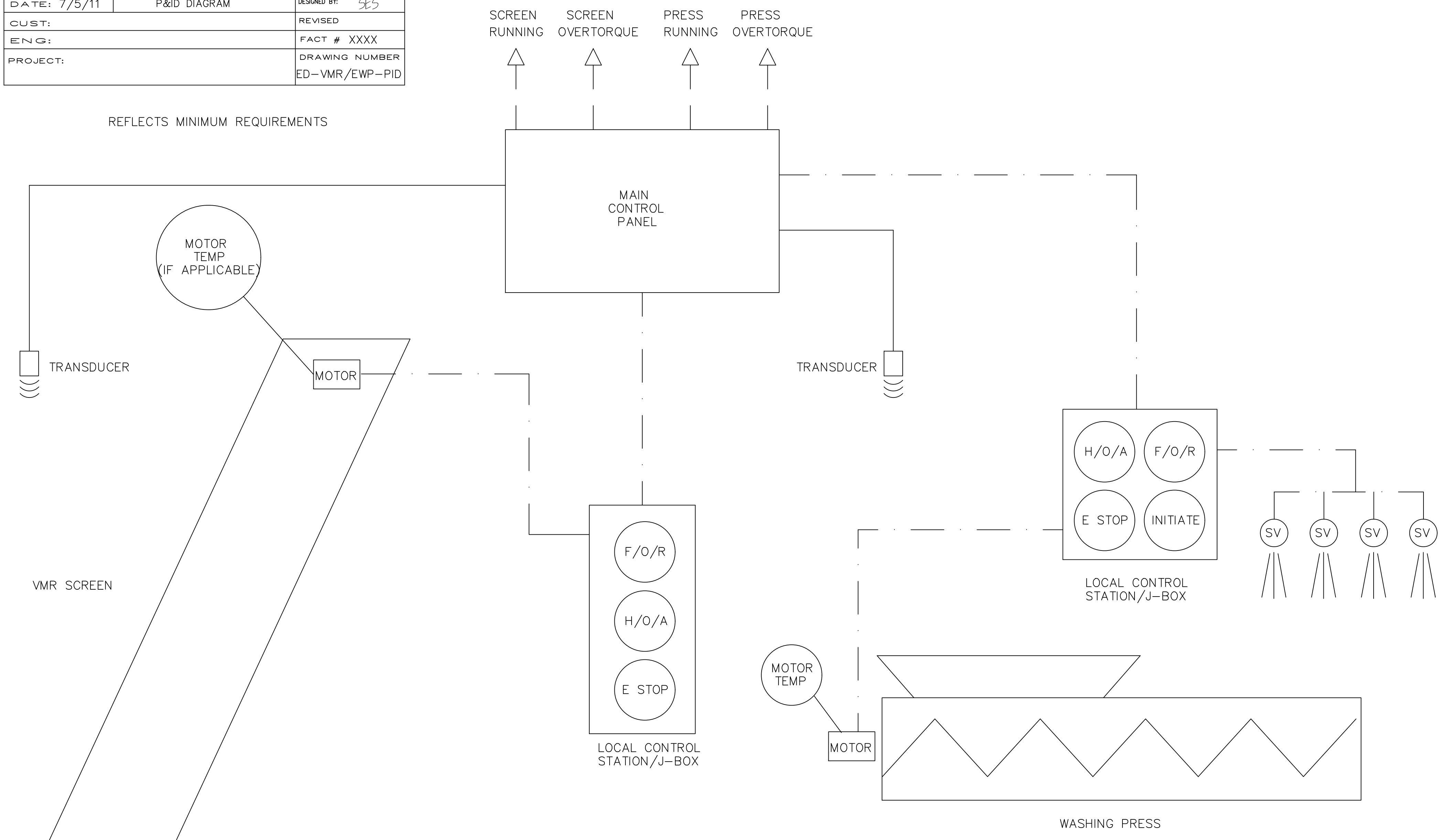
DESIGNED BY:	WOOD -
DRAWN BY:	WOOD -
CHECKED BY:	WOOD -
APPROVED BY:	WOOD -
DATE:	12/03/2020

SHEET TITLE:
**BAR SCREEN
DETAILS**

SHEET NUMBER:	REV. #
C-401	
SHEET 14 OF 19 SHEETS	

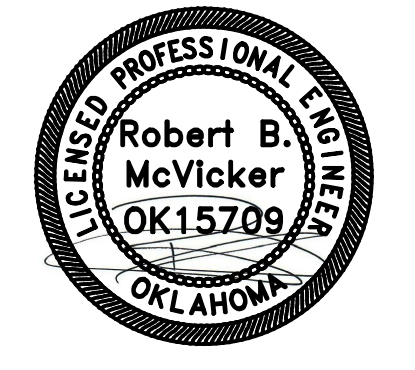
VULCAN INDUSTRIES, INC. 212 SOUTH KIRLIN STREET
MISSOURI VALLEY, IA. 51555

SCALE: NONE	PRODUCT: VMR SCREEN WITH EWP P&ID DIAGRAM	DRAWN BY: SES
DATE: 7/5/11		DESIGNED BY: SES
CUST:		REVISED
ENG:		FACT # XXXX
PROJECT:		DRAWING NUMBER ED-VMR/EWP-PID



wood.

ENVIRONMENT & INFRASTRUCTURE SOLUTIONS
8519 JEFFERSON NE
ALBUQUERQUE, NM 87113
TEL: (505) 821-1801



FINAL

PROJECT:
GANADO WWTP EXPANSION FINAL DESIGN



NAVAJO TRIBAL UTILITY AUTHORITY
PO BOX 170
FT. DEFIANCE, AZ 86504
WOOD PROJECT No: 1951700034

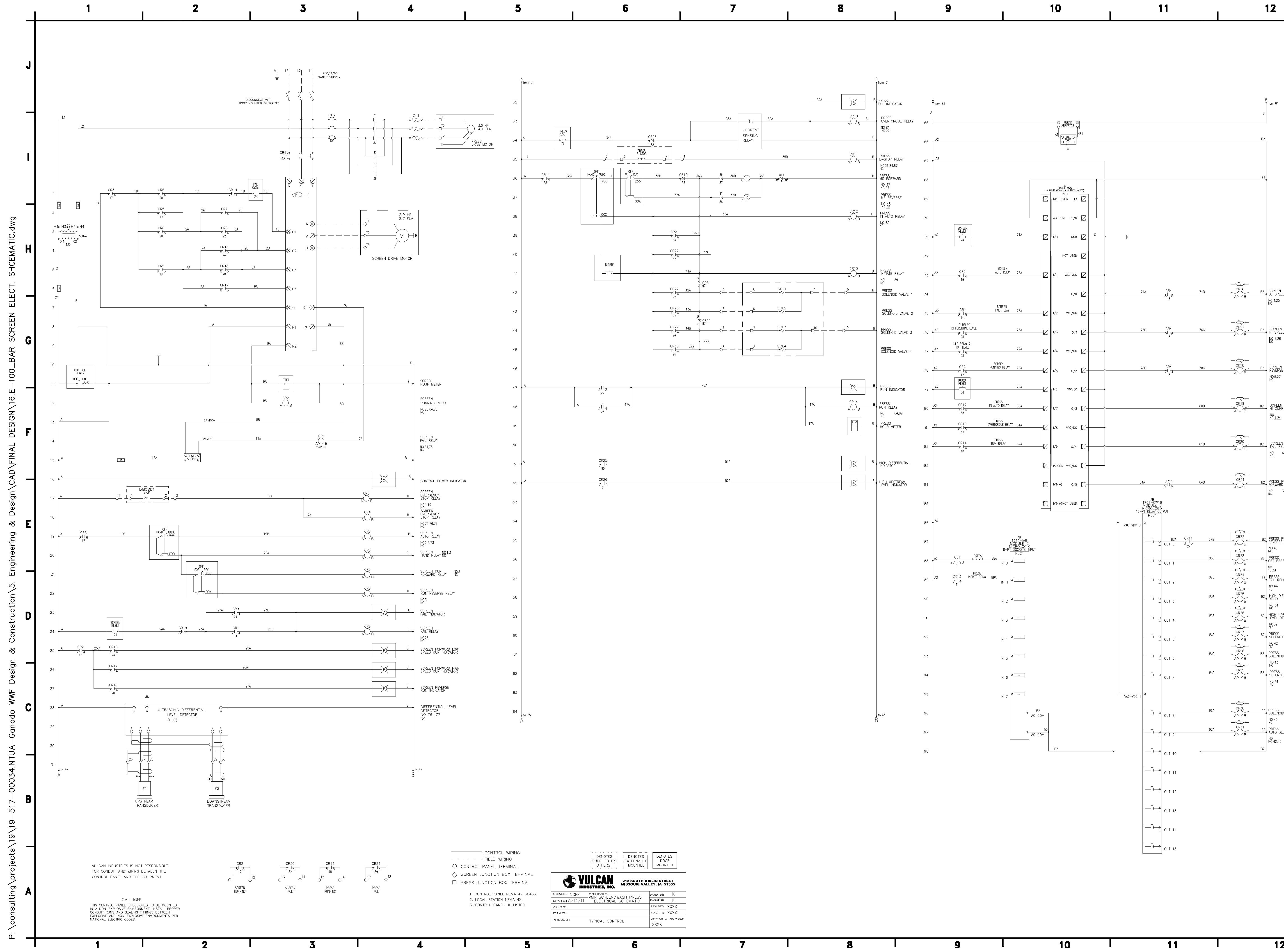
REVISIONS			
NO.	DATE	BY	APPROVED

DESIGNED BY:	WOOD -
DRAWN BY:	WOOD -
CHECKED BY:	WOOD -
APPROVED BY:	WOOD -
DATE:	12/03/2020

SHEET TITLE:
BAR SCREEN P&ID

SHEET NUMBER:	REV. #
D-100	
SHEET 15 OF 19 SHEETS	

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VULCAN INDUSTRIES IS NOT RESPONSIBLE FOR CONDUIT AND WIRING BETWEEN THE CONTROL PANEL AND THE EQUIPMENT.

CAUTION! THIS CONTROL PANEL IS DESIGNED TO BE MOUNTED IN A NON-EXPLOSIVE ENVIRONMENT. INSTALL PROPER CONDUIT RINGS AND SEALING FITTINGS BETWEEN EXPLOSIVE AND NON-EXPLOSIVE ENVIRONMENTS PER NATIONAL ELECTRIC CODES.

LEGEND:
 ○ CONTROL PANEL TERMINAL
 ◇ SCREEN JUNCTION BOX TERMINAL
 □ SCREEN JUNCTION BOX TERMINAL

<p>VULCAN INDUSTRIES, INC. 212 SOUTH KIRLIN STREET MISSOURI VALLEY, IA 51555</p>	SCALE: NONE	DATE: 5/12/11	DRAWN BY: J.E.
	CUSTOMER: VAWP SCREEN/WASH PRESS ELECTRICAL SCHEMATIC	REVISION: XXXX	CHECKED BY: J.E.
	PROJECT: TYPICAL CONTROL	REVISION: XXXX	DRAWING NUMBER: XXXX

wood.

ENVIRONMENT & INFRASTRUCTURE SOLUTIONS
 8519 JEFFERSON NE
 ALBUQUERQUE, NM 87113
 TEL: (505) 821-1801

Robert B. McVicker
 OK15709
 OKLAHOMA

FINAL

PROJECT:
GANADO WWTP EXPANSION FINAL DESIGN

NAVAJO TRIBAL UTILITY AUTHORITY
 PO BOX 170
 FT. DEFANCE, AZ 86504
 WOOD PROJECT No:
 1951700034

REVISIONS			
NO.	DATE	BY	APPROVED

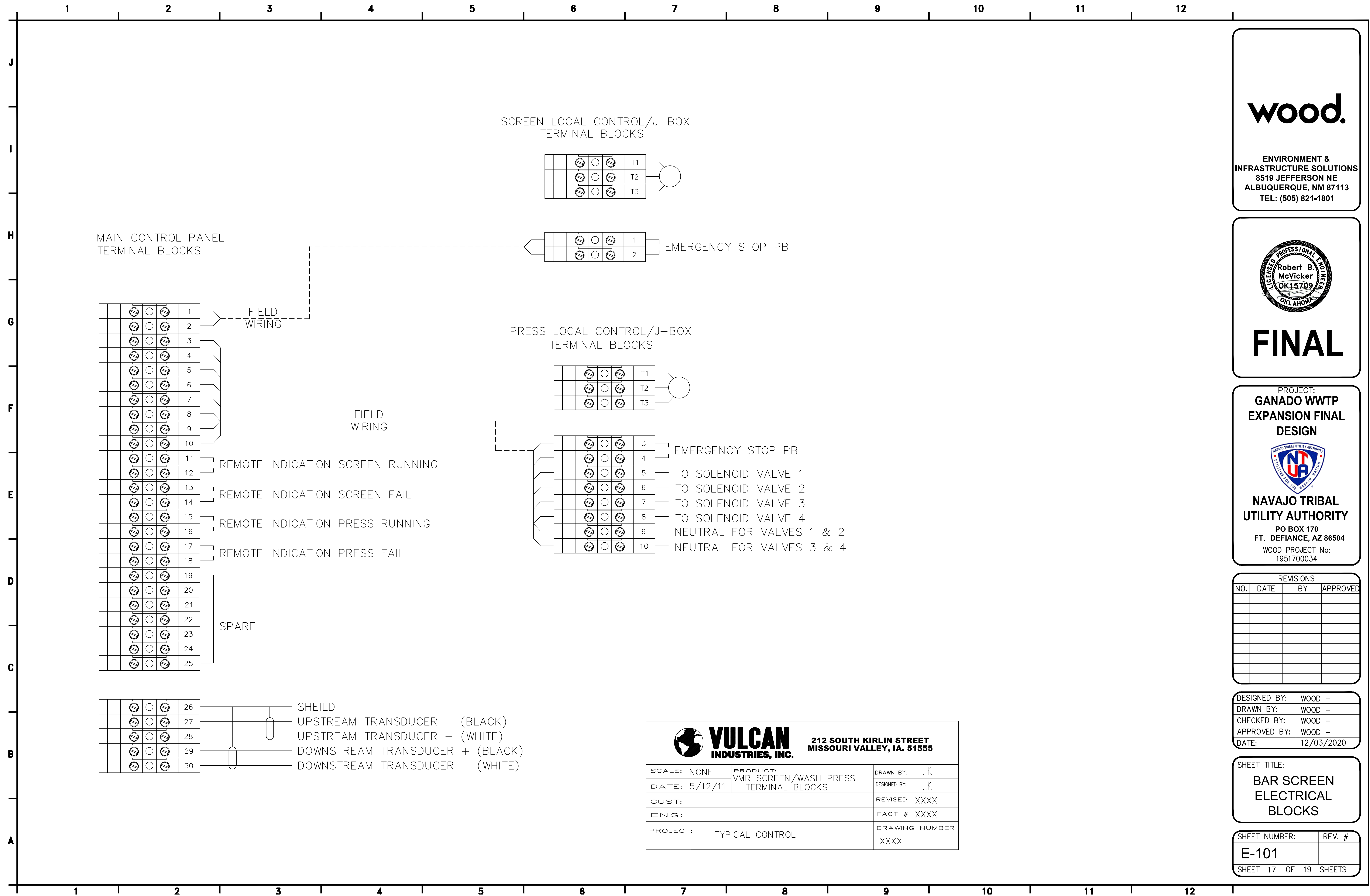
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DRAWN BY:	WOOD -
CHECKED BY:	WOOD -
APPROVED BY:	WOOD -
DATE:	12/03/2020

SHEET TITLE:

BAR SCREEN ELECTRICAL SCHEMATIC

SHEET NUMBER:	REV. #
E-100	
SHEET 16 OF 19 SHEETS	

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wood.

ENVIRONMENT &
INFRASTRUCTURE SOLUTIONS
8519 JEFFERSON NE
ALBUQUERQUE, NM 87113
TEL: (505) 821-1801



FINAL

PROJECT:
**GANADO WWTP
EXPANSION FINAL
DESIGN**



**NAVAJO TRIBAL
UTILITY AUTHORITY**
PO BOX 170
FT. DEFIANCE, AZ 86504
WOOD PROJECT No:
1951700034

REVISIONS			
NO.	DATE	BY	APPROVED

DESIGNED BY:	WOOD -
DRAWN BY:	WOOD -
CHECKED BY:	WOOD -
APPROVED BY:	WOOD -
DATE:	12/03/2020

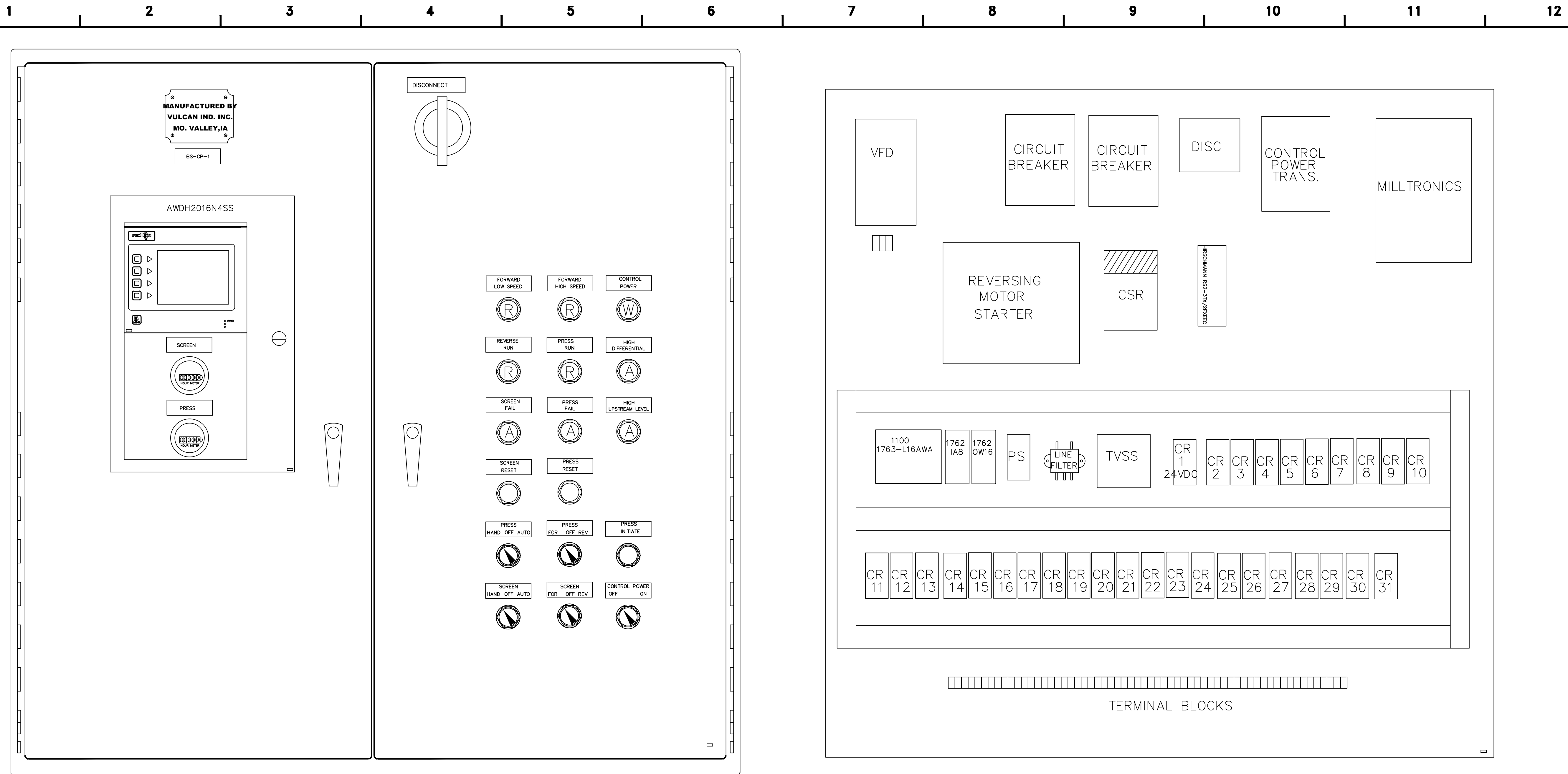
SHEET TITLE:
**BAR SCREEN
ELECTRICAL
BLOCKS**

SHEET NUMBER:	REV. #
E-101	
SHEET 17 OF 19 SHEETS	

VULCAN
INDUSTRIES, INC. 212 SOUTH KIRLIN STREET
MISSOURI VALLEY, IA. 51555

SCALE: NONE	PRODUCT: VMR SCREEN/WASH PRESS TERMINAL BLOCKS	DRAWN BY: JK
DATE: 5/12/11		DESIGNED BY: JK
CUST:		REVISED XXXX
ENG:		FACT # XXXX
PROJECT: TYPICAL CONTROL		DRAWING NUMBER XXXX

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ENCLOSURE HOFFMAN A48H4812WFSSLP3PT
 NEMA TYPE 4X 304SS
 PILOT DEVICES NEMA TYPE 4X

NO CONDUIT ENTRANCES
 PROVIDED IN THE ENCLOSURE

VULCAN INDUSTRIES, INC. 212 SOUTH KIRLIN STREET MISSOURI VALLEY, IA. 51555

SCALE: NONE	PRODUCT: VMR SCREEN/WASH PRESS PANEL LAYOUT	DRAWN BY: JK
DATE: 5/12/11		DESIGNED BY: JK
CUST:		REVISED XXXX
ENG:		FACT # XXXX
PROJECT: TYPICAL CONTROL		DRAWING NUMBER XXXX

wood.

ENVIRONMENT & INFRASTRUCTURE SOLUTIONS
 8519 JEFFERSON NE
 ALBUQUERQUE, NM 87113
 TEL: (505) 821-1801

PROFESSIONAL ENGINEER
 Robert B. McVicker
 OK15709
 OKLAHOMA

FINAL

PROJECT:
GANADO WWTP EXPANSION FINAL DESIGN

NAVAJO TRIBAL UTILITY AUTHORITY
 PO BOX 170
 FT. DEFIANCE, AZ 86504
 WOOD PROJECT No:
 1951700034

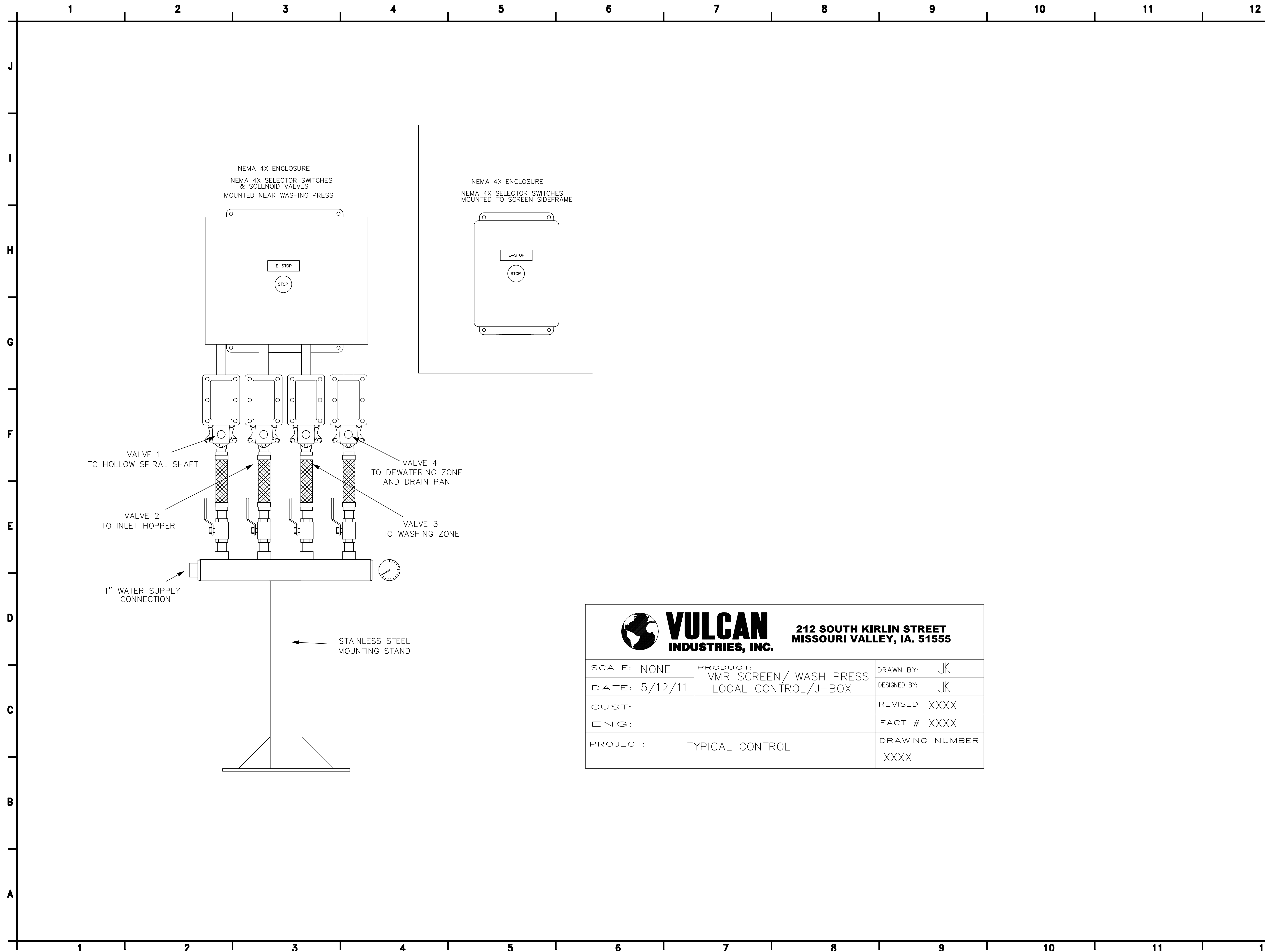
REVISIONS			
NO.	DATE	BY	APPROVED

DESIGNED BY:	WOOD -
DRAWN BY:	WOOD -
CHECKED BY:	WOOD -
APPROVED BY:	WOOD -
DATE:	12/03/2020

SHEET TITLE:
BAR SCREEN PANEL LAYOUT

SHEET NUMBER:	REV. #
E-102	

SHEET 18 OF 19 SHEETS



wood.

ENVIRONMENT &
INFRASTRUCTURE SOLUTIONS
8519 JEFFERSON NE
ALBUQUERQUE, NM 87113
TEL: (505) 821-1801



FINAL

PROJECT:
**GANADO WWTP
EXPANSION FINAL
DESIGN**



**NAVAJO TRIBAL
UTILITY AUTHORITY**
PO BOX 170
FT. DEFIANCE, AZ 86504
WOOD PROJECT No:
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REVISIONS			
NO.	DATE	BY	APPROVED

DESIGNED BY:	WOOD -
DRAWN BY:	WOOD -
CHECKED BY:	WOOD -
APPROVED BY:	WOOD -
DATE:	12/03/2020

SHEET TITLE:
**BAR SCREEN
J-BOX**

SHEET NUMBER:	REV. #
E-103	

SHEET 19 OF 19 SHEETS

VULCAN
INDUSTRIES, INC.

212 SOUTH KIRLIN STREET
MISSOURI VALLEY, IA. 51555

SCALE: NONE	PRODUCT: VMR SCREEN/ WASH PRESS LOCAL CONTROL/J-BOX	DRAWN BY: JK
DATE: 5/12/11		DESIGNED BY: JK
CUST:		REVISED XXXX
ENG:		FACT # XXXX
PROJECT: TYPICAL CONTROL		DRAWING NUMBER XXXX