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							4221 BALLOON PARK RD NE ALBUQUERQUE, NM 87109 TEL: (505) 821-1801
		SHE	ET INDE	X			
	SHEET NO.	SHEET TITLE					
1 2	G-001 G-002	TITLE SHEE					
3	C-100	EXISTING C					
4	C-101	EXISTING TO	OPOGRAPHI	C SITE MAP			
5	C-200	DEBRIS AND	SLUDGE ST	AGING ARE	AS		
6	C-300	GRADING PI					
7 8	C-301	GRADING PI			•		PROJECT:
9	C-400 C-500	QUANTITIES		x SECTIONS)		CHINLE WWTP
10	C-600	HDPE LINER					BIOSOLIDS DISPOSAL NOT FOR CONSTRUCTION
							NAVAJO TRIBAL UTILITY AUTHORITY PO BOX 170 FT. DEFIANCE, AZ 86504 WSP PROJECT No: 2151700052 REVISIONS NO. DATE BY APPROVED HEVISIONS NO. DATE BY APPROVED HEVISIONS HEVISIONS NO. DATE BY APPROVED DESIGNED BY: WSP - DRAWN BY: WSP - CHECKED BY: WSP - APPROVED BY: WSP - APPROVED BY: WSP - DATE: XX/XX/2023
							TITLE SHEETSHEET NUMBER:REV. #G-001
0		10		4 4		10	1

4

QUALITY CONTROL

1.0 UNLESS OTHERWISE STATED, INDIAN HEALTH SERVICE (IHS)/NAVAJO ENGINEERING AND CONSTRUCTION AUTHORITY (NECA) SPECIFICATIONS (REV 1.5) AND INDIAN HEALTH SERVICE STANDARD DETAILS FOR WATER (REV 3.2) AND SEWER (REV 1.9) 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.

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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 THE ACCURATE LOCATION IN THE FIELD.
- 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 PROJECT CONTROL SHOWN HEREON WAS ESTABLISHED USING STATIC OBSERVATIONS AND POST PROCESSING USING THE NATIONAL GEODETIC OPUS SOLUTION SOFTWARE.

HORIZONTAL DATUM: AZSPCS EAST ZONE MODIFIED, C.S.F= 1.000325 (SHIFT) FALSE NORTHING: +10.02' (SHIFT) FALSE EASTING: -1.055' TO BE UTILIZED AS "GROUND" COORDINATES

VERTICAL DATUM: NAVD88 (2011)

Point Table					
Point #	Northing	Easting	Elevation	Description	
96	1889416.985	871408.932	5457.83	BCF BIA NAVAJO ROADS CDOT-4	
97	1888984.260	869814.723	5458.41	FND ¹ / ₂ " RB	
98	1888015.160	870521.982	5462.40	FND ¹ / ₂ " RB	
99	1888143.586	870208.812	5464.88	SET <mark>1</mark> " RB W/RED CAP	
400	1887600.673	869855.570	5461.16	SET PANEL	
403	1887940.899	871688.504	5463.53	SET PANEL	

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

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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 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.
- 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).

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- 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.
- 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.

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.

PROJECT PURPOSE

- 20.0 DRIED SLUDGE WASTE STOCKPILED IN CHINLE PONDS 1, 3, AND 4 ARE TO BE DISPOSED OF IN A RE-PURPOSED POND 3. SOIL AND DEBRIS FROM POND 3 ARE TO BE REMOVED AND TEMPORARILY STOCKPILED. POND 3 IS TO BE RE-PURPOSED BY RESHAPING TO PREVIOUS AS-BUILT CONDITIONS (SEPT 1998) AND LINED WITH A 60 MIL HIGH DENSITY POLYETHYLENE (HDPE) GEOMEMBRANE LINER. IN ADDITION, PONDS 1 AND 4 ARE TO BE RE-SHAPED TO AS-BUILT CONDITIONS BUT REMAIN UNLINED.
- 21.0 DRIED SLUDGE WASTE FROM KAYENTA AND WINDOW ROCK ARE TO BE TRUCKED TO CHINLE FOR DISPOSAL WITHIN POND 3.

SOIL/SLUDGE/DEBRIS PLACEMENT

- 22.0 DRIED SLUDGE WASTE PLACED IN POND 3 WILL REQUIRE COMPACTION IN 8" LIFTS TO REDUCE THE VOLUME OF 1 CUBIC YARD OF STOCKPILED MATERIAL INTO 0.75 CUBIC YARDS OF COMPACTED MATERIAL.THE COMPACTION OF PLACED SLUDGE IS TO BE A MINIMUM OF 90 PERCENT OF THE MAXIMUM DENSITY DETERMINED USING ASTM D1557. MOISTURE CONDITIONING OF SOILS TO ACHIEVE THIS DENSITY MAY BE REQUIRED. PROCTOR ANALYSIS OF SLUDGE MATERIAL INDICATE A MINIMUM OF 10 PERCENT MOISTURE IS LIKELY TO ACHIEVE DESIRED DRY DENSITY.
- 23.0 POND 3 IS TO RECEIVE A 18-INCH CAP CONSISTING OF COMPACTED, CLEAN SOILS GENERATED AND SORTED FROM THE RESHAPING OF THE CHINLE PONDS. THE CAP WILL HAVE A 2.0 PERCENT GRADE AWAY FROM THE CENTER TO DRAIN STORM RUNOFF AWAY FROM THE POND.
- 24.0 CONCRETE, ROCK, AND DEBRIS GENERATED FROM POND RE-SHAPING AND ACCUMULATED FROM SORTING ARE TO BE BURIED IN A DESIGNATED AREA OF POND 1.

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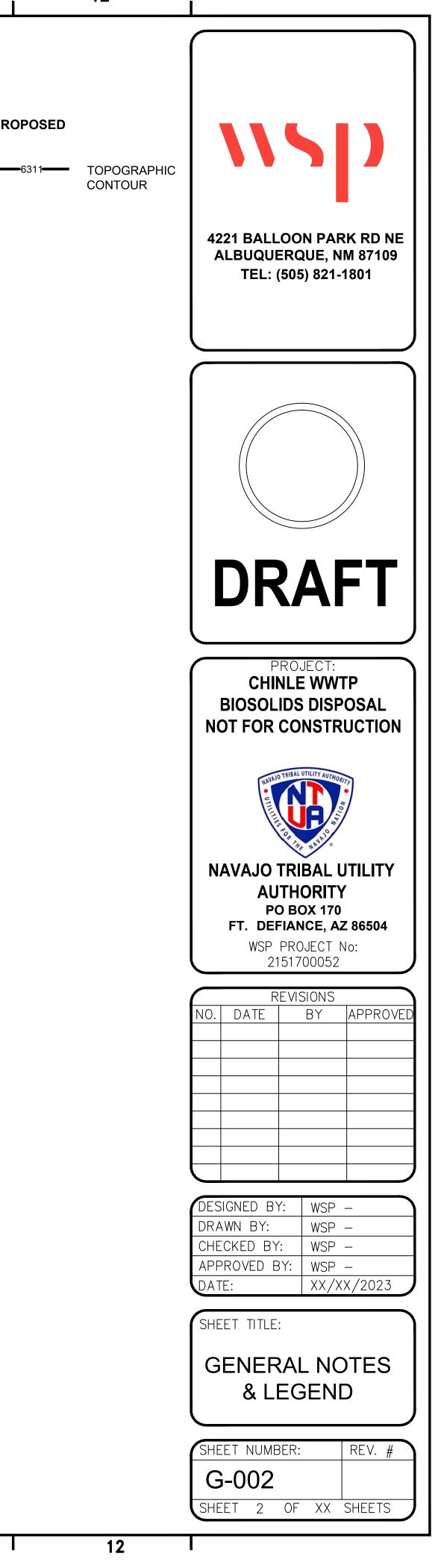
CONTOUR

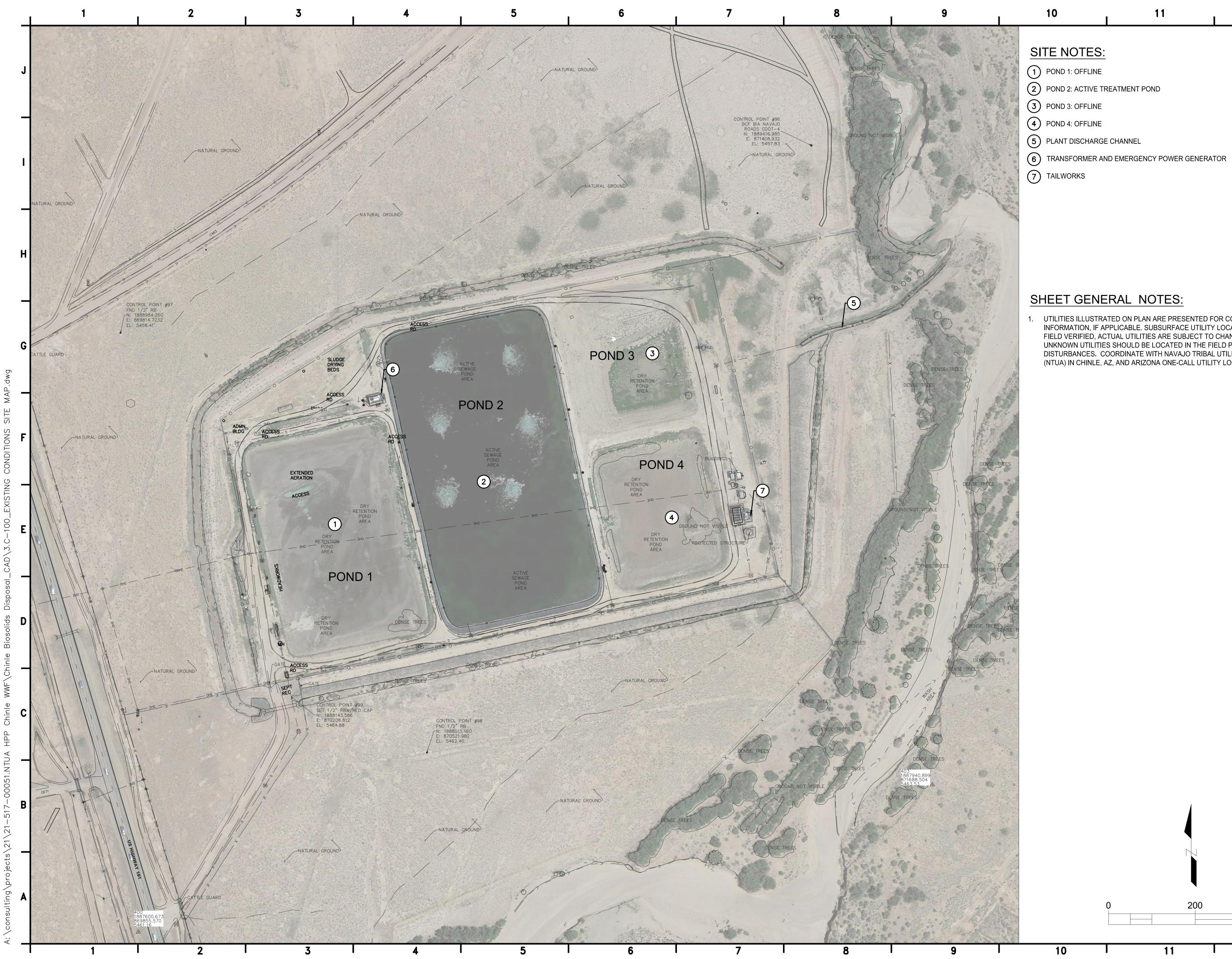
PROPOSED

GENERAL LEGEND:

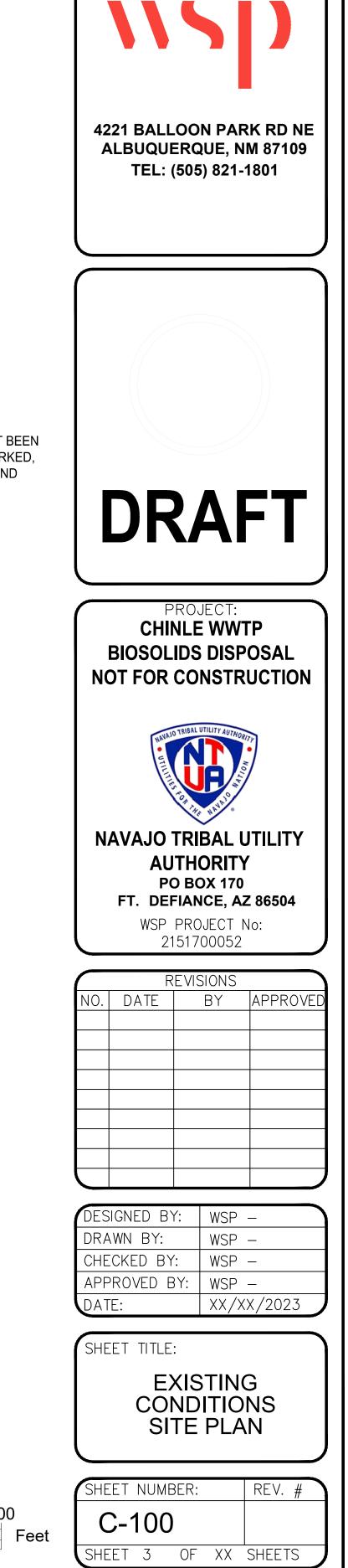
EXISTING

— X ——	FENCE
он —	OVERHEAD ELECTRIC LINE
-0-	POWER POLE
— SS — —	SANITARY SEWER LINE
S	SANITARY SEWER MANHOLE
-6314	TOPOGRAPHIC CONTOUR
— UE ———	UNDERGROUND ELECTRIC LINE
—W ——	WATER LINE





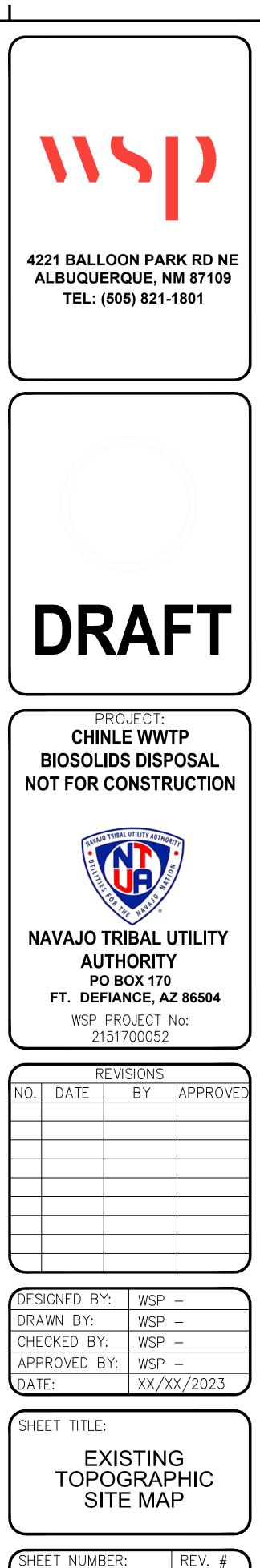
UTILITIES ILLUSTRATED ON PLAN ARE PRESENTED FOR CONTRACTOR INFORMATION, IF APPLICABLE. SUBSURFACE UTILITY LOCATES HAVE NOT BEEN FIELD VERIFIED, ACTUAL UTILITIES ARE SUBJECT TO CHANGE AND UNMARKED, UNKNOWN UTILITIES SHOULD BE LOCATED IN THE FIELD PRIOR TO GROUND DISTURBANCES. COORDINATE WITH NAVAJO TRIBAL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



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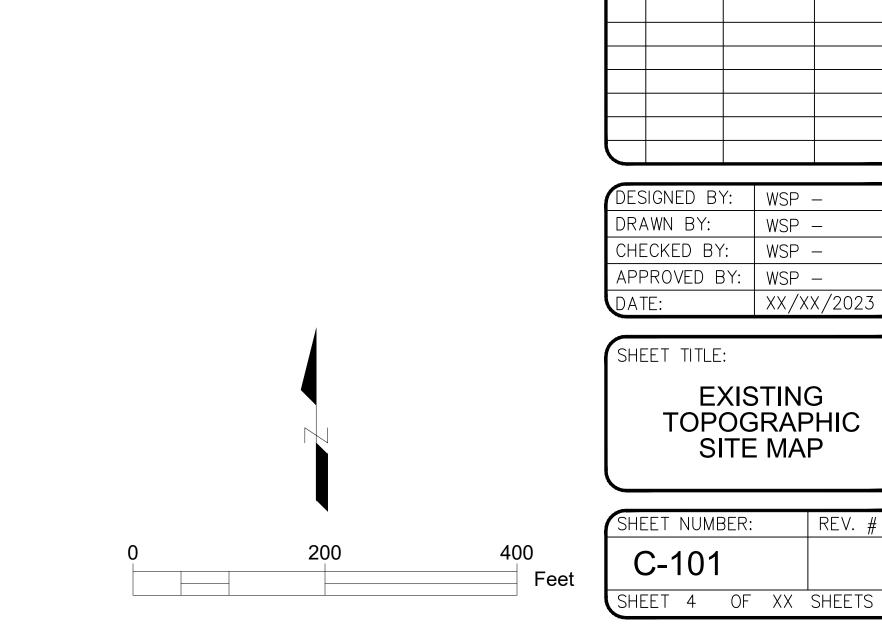


SITE NOTES:





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 LOCATED IN THE FIELD PRIOR TO GROUND DISTURBANCES. COORDINATE WITH NAVAJO TRIBAL UTILITY AUTHORITY (NTUA) IN CHINLE, AZ, AND ARIZONA ONE-CALL UTILITY LOCATE.





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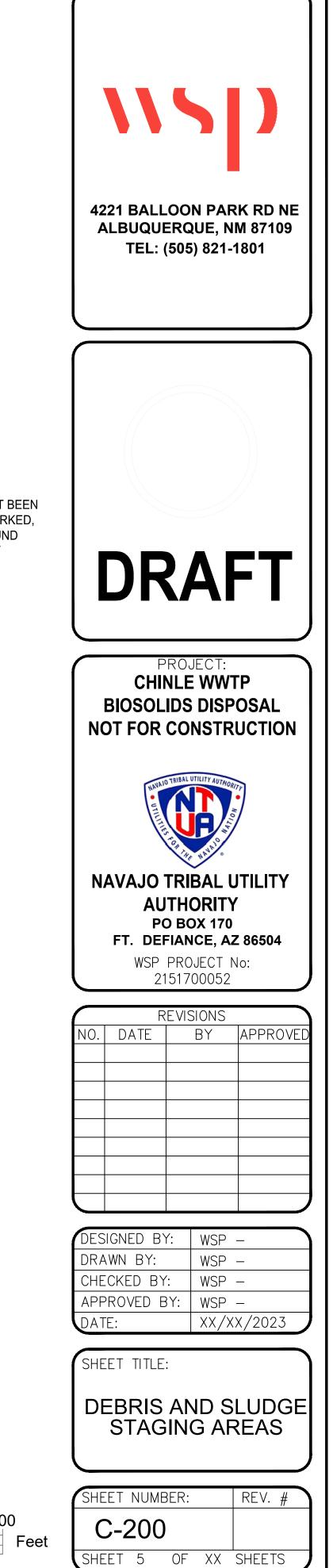
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NOTES:

1 TEMPORARY STOCKPILE AREA FOR SOIL AND DEBRIS

2 TEMPORARY STOCKPILE AREA FOR SOIL AND DEBRIS. REMOVE EXISTING FENCE AND INSTALL NEW FENCE IN THIS AREA.



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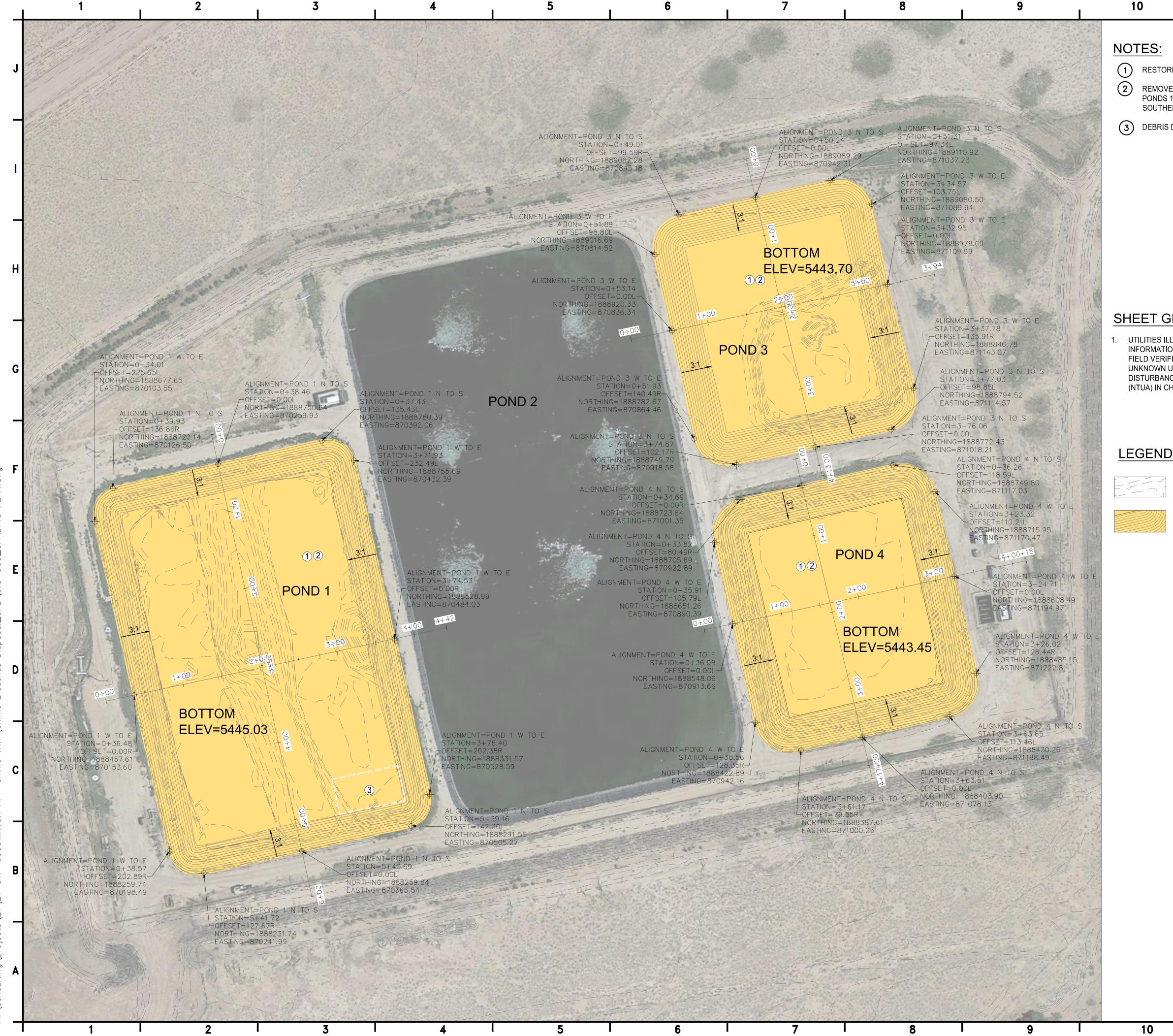
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SHEET GENERAL NOTES:

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 LOCATED IN THE FIELD PRIOR TO GROUND DISTURBANCES. COORDINATE WITH NAVAJO TRIBAL UTILITY AUTHORITY (NTUA) IN CHINLE, AZ, AND ARIZONA ONE-CALL UTILITY LOCATE.







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1 RESTORE PONDS 1, 3, AND 4 TO AS-BUILT DIMENSIONS AND ELEVATIONS

REMOVE ABANDONED PIPING, ROCK, AND CONCRETE STRUCTURES FROM PONDS 1, 3, AND 4. STORE TEMPORARILY ON-SITE FOR LATER DISPOSAL IN SOUTHERN PORTION OF CELL #1

(3) DEBRIS DISPOSAL AREA

SHEET GENERAL NOTES:

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 LOCATED IN THE FIELD PRIOR TO GROUND DISTURBANCES. COORDINATE WITH NAVAJO TRIBAL UTILITY AUTHORITY (NTUA) IN CHINLE, AZ, AND ARIZONA ONE-CALL UTILITY LOCATE.

EXISTING GROUND TOPOGRAPHIC CONTOUR

PROPOSED GRADING TOPOGRAPHIC CONTOUR

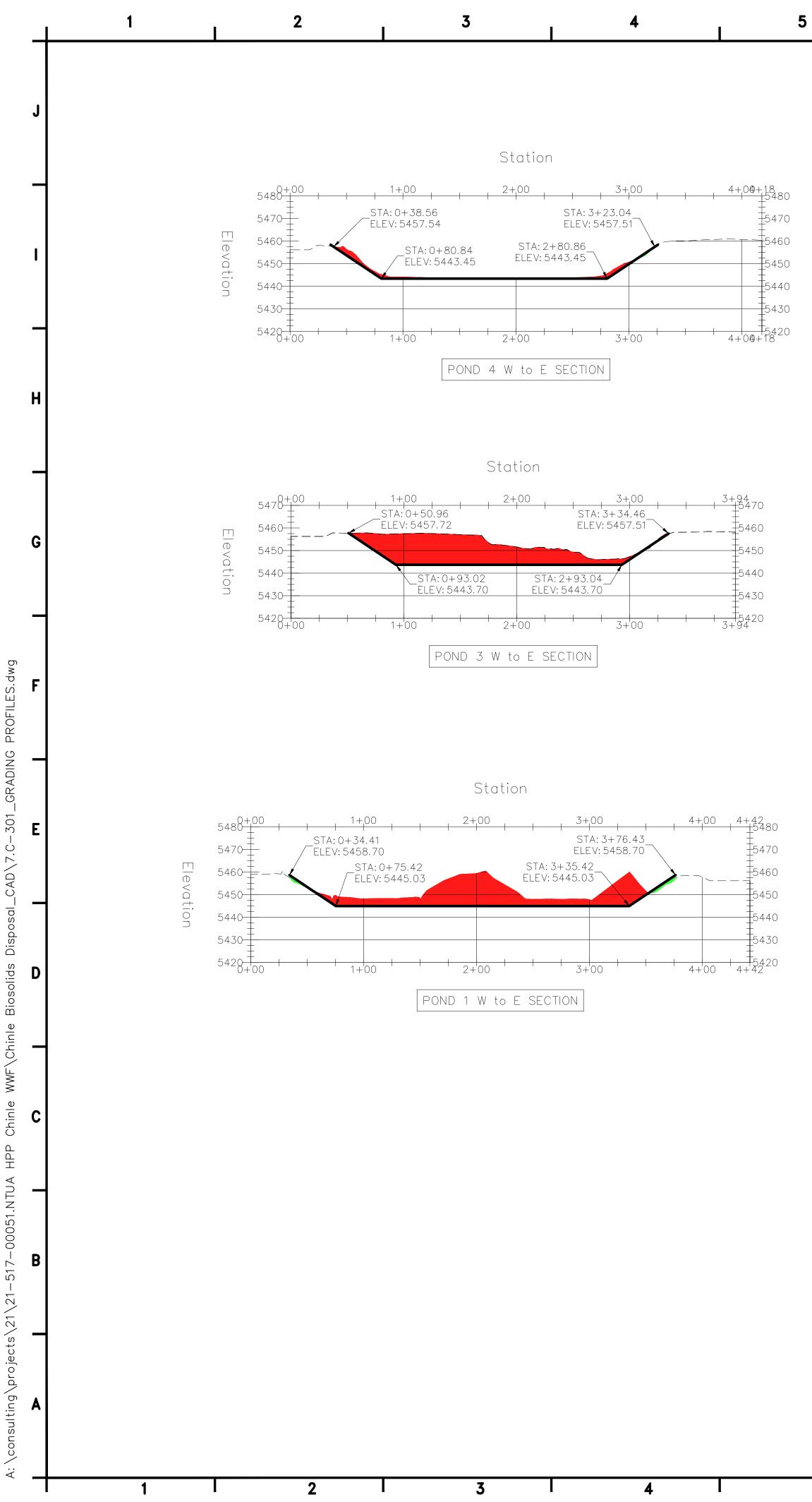


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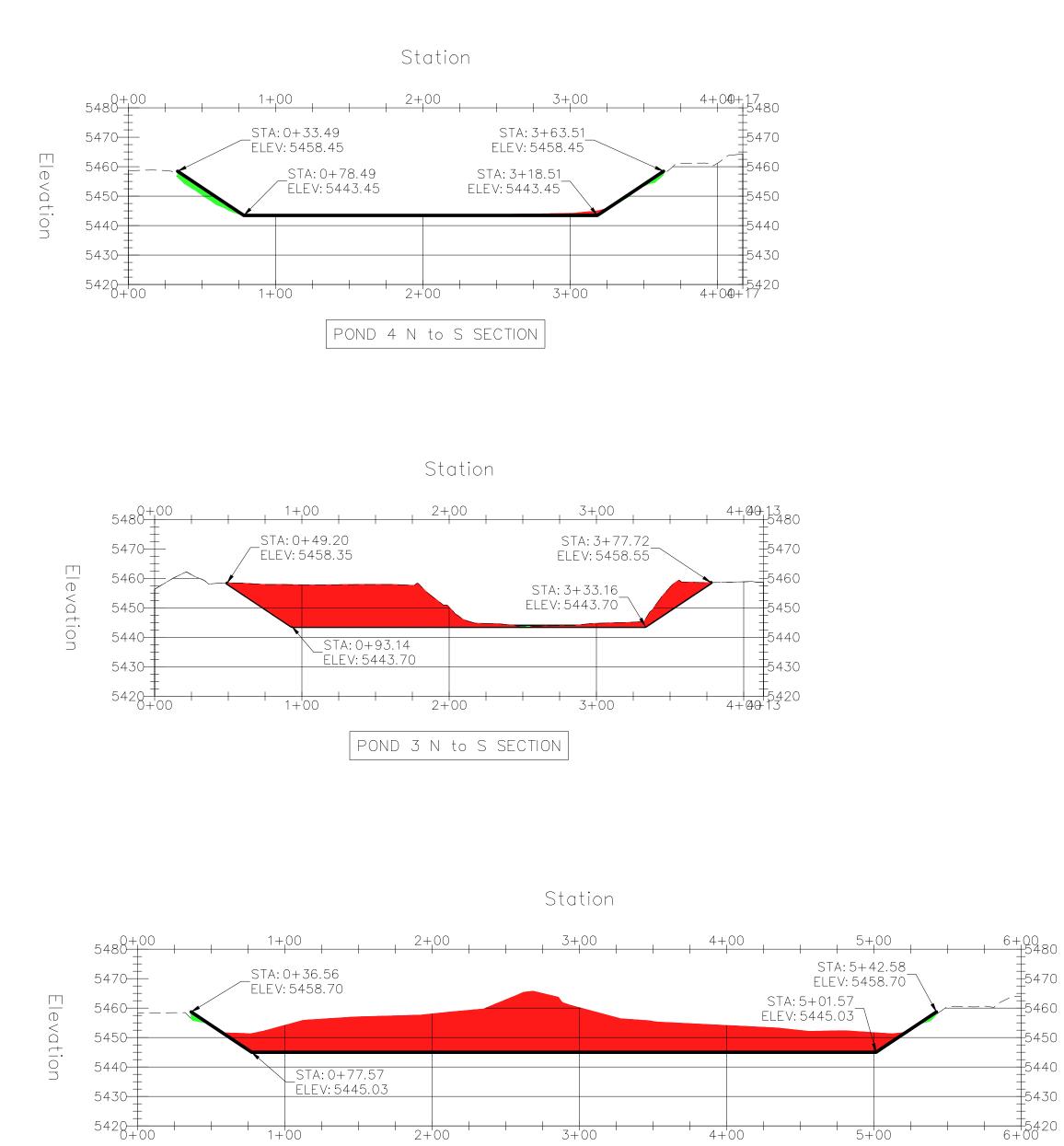
Feet

SHEET 6 OF XX SHEETS

120



5	6	7	8	9	10



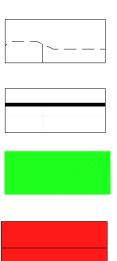
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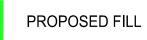
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LEGEND



EXISTING GROUND TOPOGRAPHIC CONTOUR

PROPOSED GRADING TOPOGRAPHIC CONTOUR



PROPOSED CUT







6+00

<u>+</u>5470

T5460

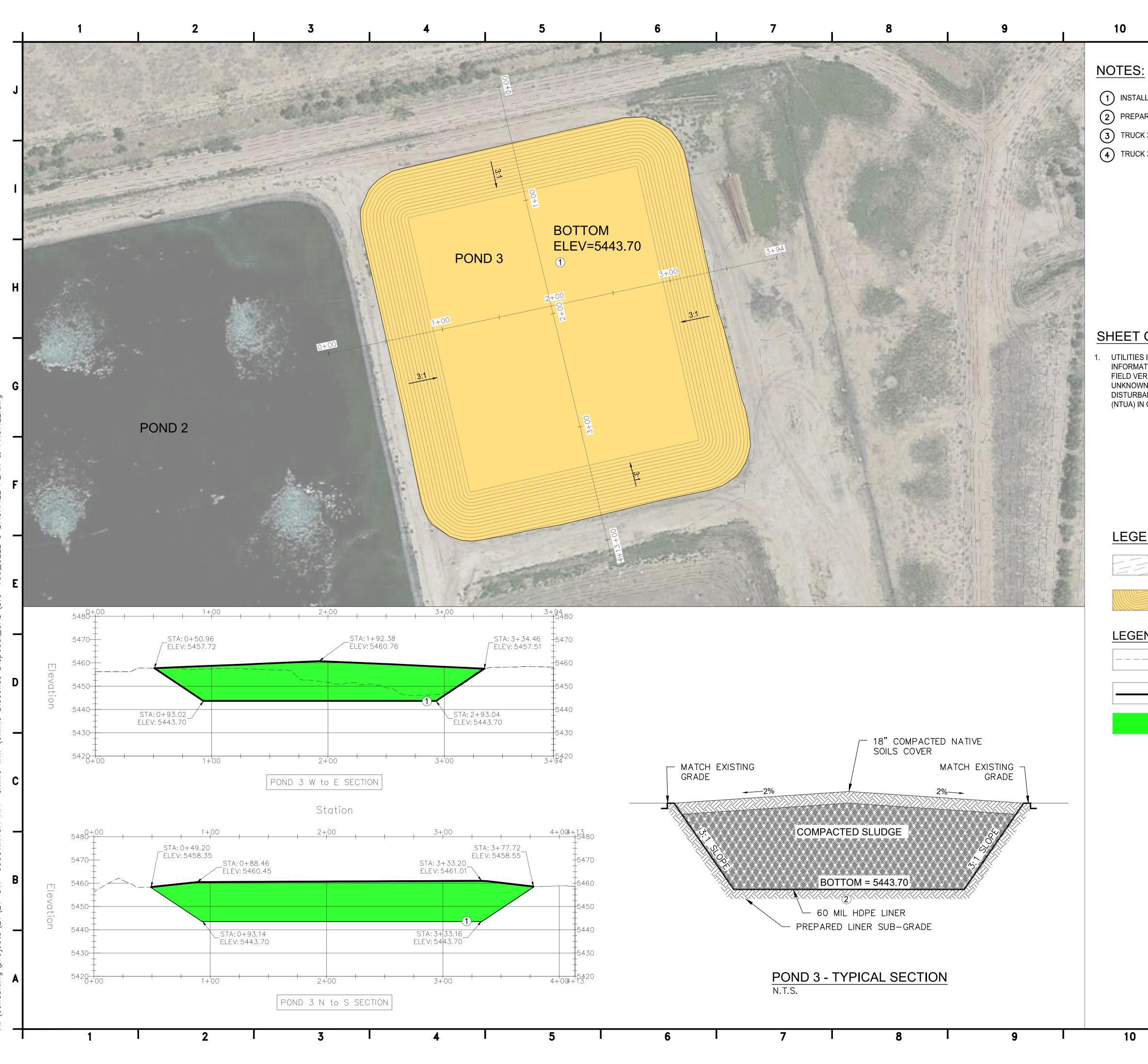
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- 1 INSTALL 60 MIL HDPE LINER CELL #3. SEE DETAILS ON SHEET C-600
- 2 PREPARE SUB-GRADE PER GEOTECHNICAL REPORT
- 3 TRUCK 3,800 CY OF SLUDGE FROM KAYENTA WWTP
- 4 TRUCK 3,000 CY OF SLUDGE FROM WINDOW ROCK WWTP



SHEET GENERAL NOTES:

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 LOCATED IN THE FIELD PRIOR TO GROUND DISTURBANCES. COORDINATE WITH NAVAJO TRIBAL UTILITY AUTHORITY (NTUA) IN CHINLE, AZ, AND ARIZONA ONE-CALL UTILITY LOCATE.

LEGEND - SECTION VIEW

EXISTING GROUND TOPOGRAPHIC CONTOUR

PROPOSED GRADING TOPOGRAPHIC CONTOUR

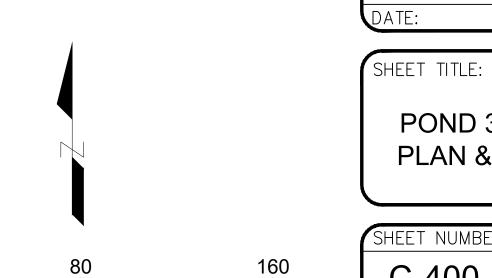
LEGEND - PLAN VIEW

EXISTING GROUND TOPOGRAPHIC CONTOUR

PROPOSED GRADING TOPOGRAPHIC CONTOUR

11

PROPOSED FILL



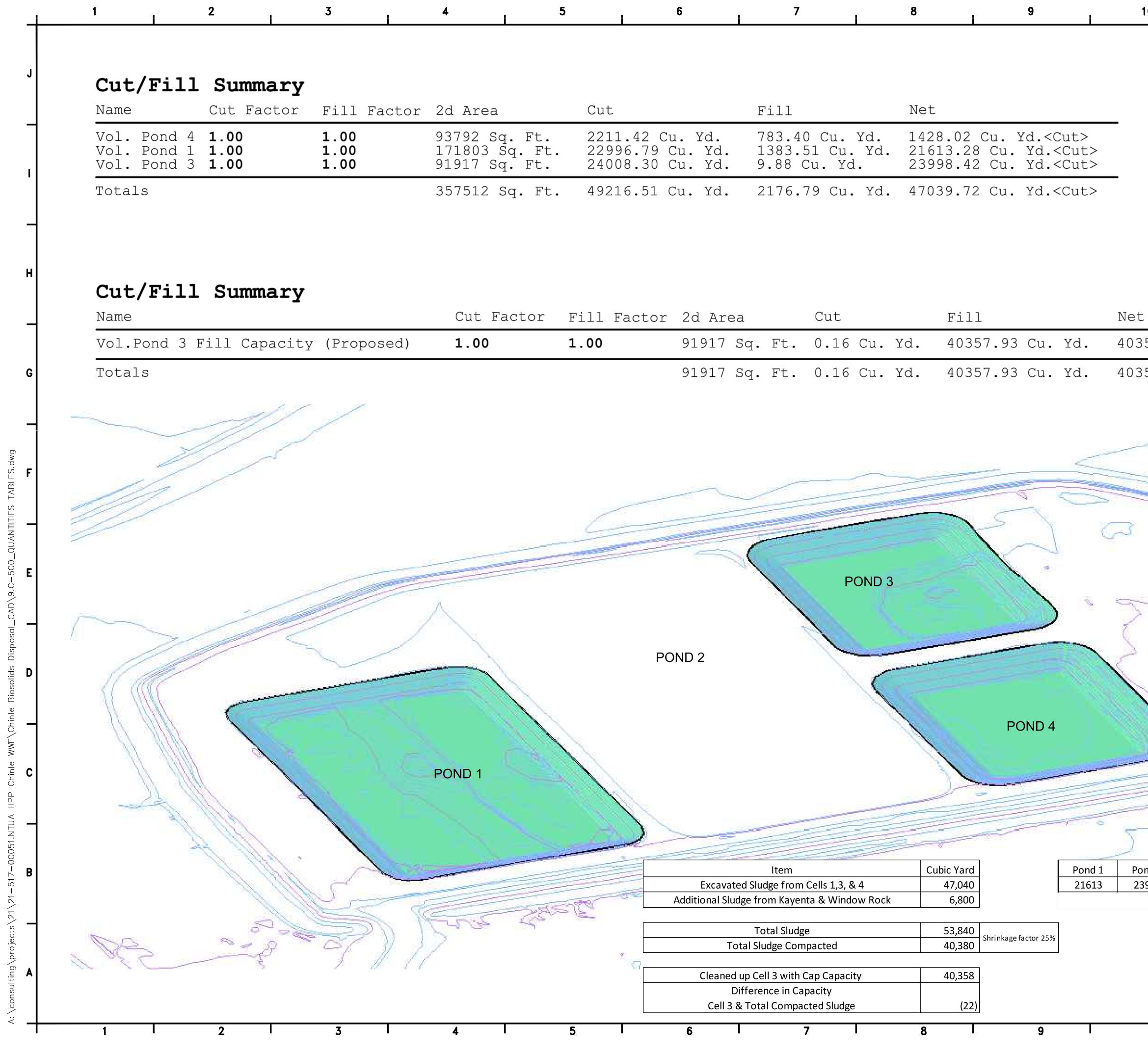


REV. # SHEET NUMBER: C-400 SHEET 8 OF XX SHEETS

POND 3 BACKFILL

PLAN & SECTIONS

XX/XX/2023

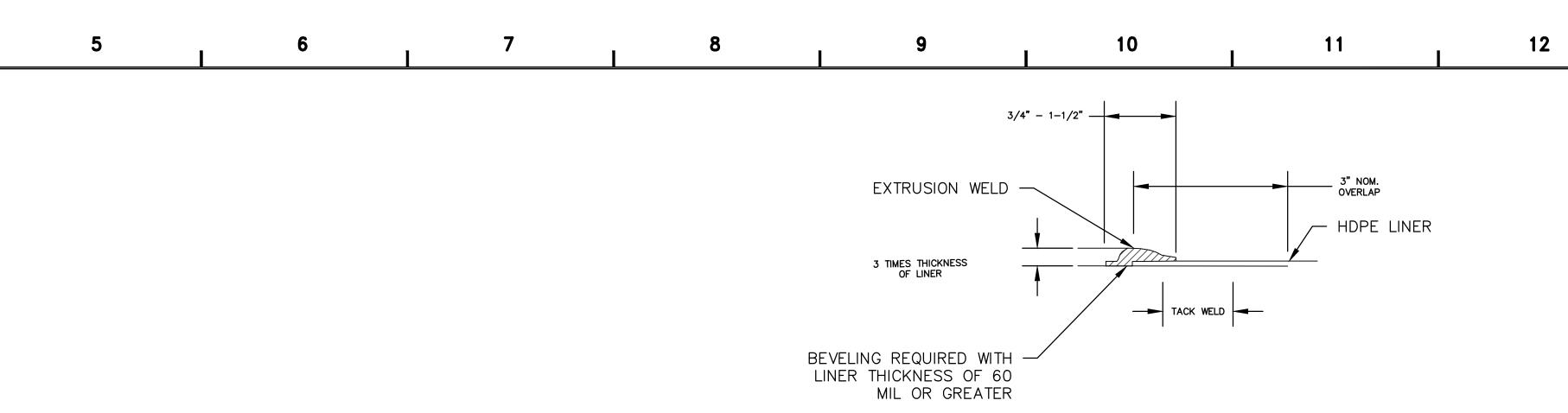


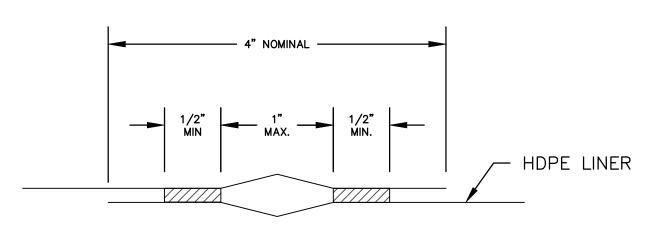
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APPROVED BY: WS DATE: XX	X 170 CE, AZ 86504 IECT No: 10052 ONS									
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ıt	Fill	Net		
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9216.51 Cu. Yd.	2176.79 Cu. Yd.	47039.72 Cu. Yd. <cu< td=""><td>ut></td><td>ALBUQUERQUE, NM 8710 TEL: (505) 821-1801</td></cu<>	ut>	ALBUQUERQUE, NM 8710 TEL: (505) 821-1801
Factor 2d Area 91917 So		Fill Yd. 40357.93 Cu. Yo	Net d. 40357.78 Cu. Yd. <fill></fill>	
			d. 40357.78 Cu. Yd. <fill></fill>	
				PROJECT: CHINLE WWTP BIOSOLIDS DISPOSAL NOT FOR CONSTRUCTIO
	Pond 3			CHINLE WWTP BIOSOLIDS DISPOSAL NOT FOR CONSTRUCTION NAVAJO TRIBAL UTILITY AUTHORITY PO BOX 170 FT. DEFIANCE, AZ 86504 WSP PROJECT No:
POND 2	Pond 3	Pond 4		CHINLE WWTP BIOSOLIDS DISPOSAL NOT FOR CONSTRUCTIO
POND 2		Pond 4		CHINLE WWTP BIOSOLIDS DISPOSAL NOT FOR CONSTRUCTION NAVAJO TRIBAL UTILITY AUTHORITY PO BOX 170 FT. DEFIANCE, AZ 86504 WSP PROJECT No: 2151700052
	Item	Cubic Yard	Pond 1 Pond 3 Pond 4 Kayenta Winder	CHINLE WWTP BIOSOLIDS DISPOSAL NOT FOR CONSTRUCTIO NOT FOR CONSTRUCTIO NAVAJO TRIBAL UTILITY AUTHORITY PO BOX 170 FT. DEFIANCE, AZ 86504 WSP PROJECT No: 2151700052 REVISIONS NO. DATE BY APPROVED BY: WSP - DATE: XX/XX/2023
Excavated	Item Sludge from Cells 1,3, & 4 e from Kayenta & Window Rock	Cubic Yard F 47,040 6,800	Pond 1 Pond 3 Pond 4 Kayenta Winder	CHINLE WWTP BIOSOLIDS DISPOSAL NOT FOR CONSTRUCTION NOT FOR CONSTRUCTION NAVAJO TRIBAL UTILITY AUTHORITY PO BOX 170 FT. DEFIANCE, AZ 86504 WSP PROJECT NO: 2151700052 REVISIONS NO. DATE BY APPROJECT NO: 2151700052 NO. DATE BY APPROJECT NO: 2151700052 NO. DATE BY APPROJECT NO: 2151700052 NO. DATE BY APPROJECT NO: 2151700052 DATE APPROJECT NO: 2151700052 APPROJECT NO: 2151700052 BY APPROJECT NO: 2151700052 DATE WSP - 2000 APPROJECT NO: 2151700052 BY: WSP - 2000 APPROJECT NO: 2151700052 BY: WSP - 2000 APPROJ
Excavated Additional Sludge	Item Sludge from Cells 1,3, & 4	Cubic Yard F	Pond 1 Pond 3 Pond 4 Kayenta Winder	CHINLE WWTP BIOSOLIDS DISPOSAL NOT FOR CONSTRUCTION Image: Construction of the system Image: Construction of th

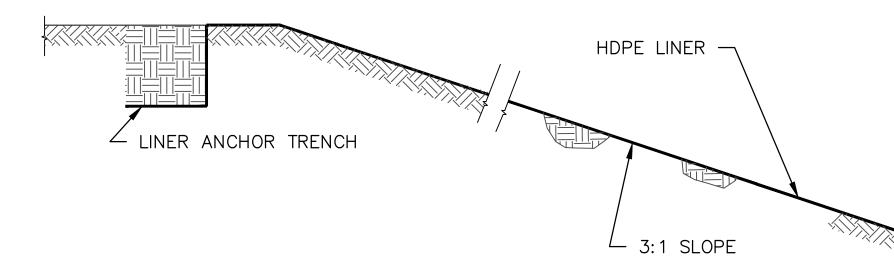
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<u>HDPE FIELD SPLICE</u>





LINER DETAIL n.t.s.

5	6	7	8	9	

EXTRUSION WELD

<u> </u>
4221 BALLOON PARK RD NE ALBUQUERQUE, NM 87109 TEL: (505) 821-1801
DRAFT
<section-header></section-header>
REVISIONS NO. DATE BY APPROVED
DESIGNED BY: WSP – DRAWN BY: WSP – CHECKED BY: WSP – APPROVED BY: WSP – DATE: XX/XX/2023 SHEET TITLE: HDPE LINER
DETAILS SHEET NUMBER: REV. # C-600