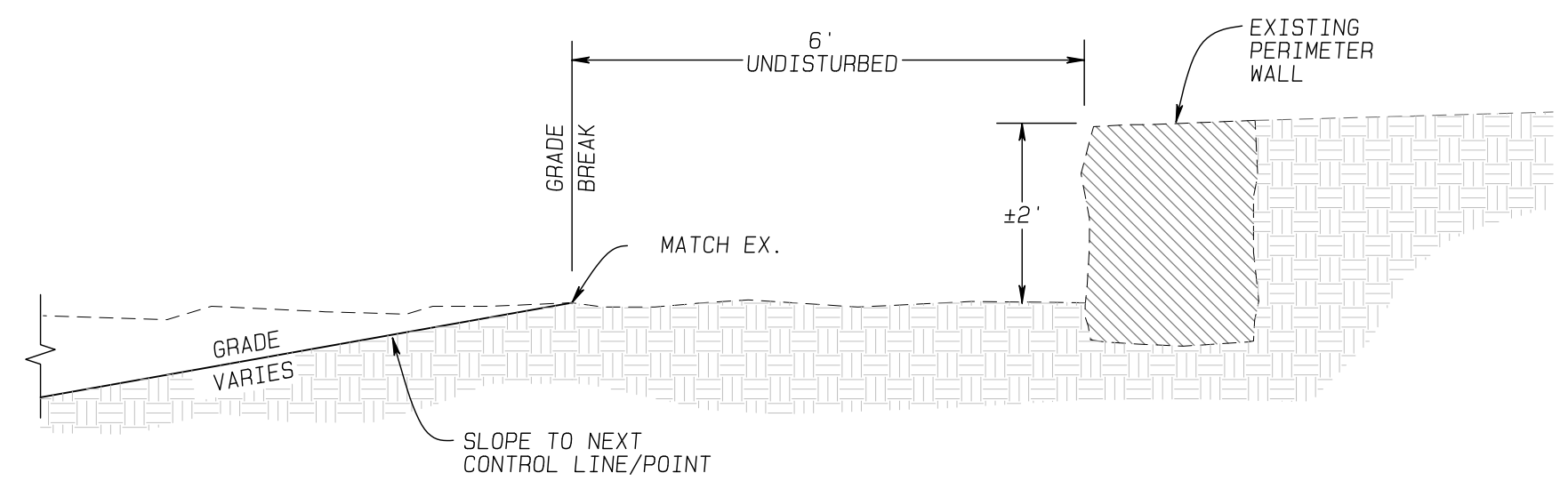
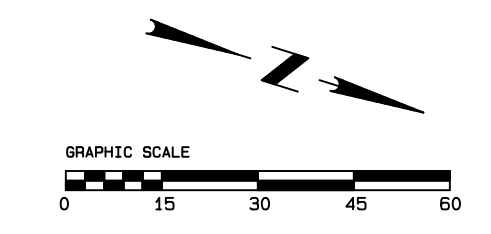


FRANCIS SHORT POND SEDIMENT REMOVAL & RESTORATION LAYOUT CONTROL



A TYPICAL GRADING AT PERIMETER NO SCALE

Grading Points Coordinate Table				
Pt #	North	East	Elev	Descriptor
101	1530503.7	778254.0	6924.0	GRD BRK @ ISLAND
102	1530500.1	778268.2	6924.1	GRD BRK @ ISLAND
103	1530617.5	778332.1	6924.6	Pond Bottom
104	1530625.8	778306.6	6924.8	Pond Bottom
106	1530511.7	778293.2	6924.7	Pond Bottom
107	1530574.4	778505.8	6920.0	Pond Bottom
108	1530576.8	778332.7	6920.0	Pond Bottom
109	1530511.6	778338.7	6920.0	Pond Bottom
110	1530508.5	778311.9	6920.0	Pond Bottom
111	1530391.7	778357.6	6920.0	Pond Bottom
112	1530389.4	778330.7	6920.0	Pond Bottom
113	1530277.6	778366.4	6920.0	Pond Bottom
114	1530276.1	778339.4	6920.0	Pond Bottom
115	1530614.9	778344.3	6925.9	GRD BRK
116	1530585.2	778348.1	6926.0	GRD BRK
117	1530435.5	778412.0	6925.5	GRD BRK
118	1530350.8	778425.8	6925.5	GRD BRK
119	1530261.2	778425.6	6926.0	GRD BRK
120	1530496.4	778384.0	6926.0	GRD BRK
121	1530354.6	778246.2	6923.5	WEST CHAN GRD BRK
122	1530314.2	778278.7	6923.3	WEST CHAN GRD BRK
123	1530404.9	778216.9	6923.7	WEST CHAN GRD BRK
124	1530445.7	778204.8	6923.8	WEST CHAN GRD BRK
125	1530531.8	778244.4	6924.3	WEST CHAN GRD BRK
126	1530485.9	778216.1	6924.0	WEST CHAN GRD BRK
127	1530360.4	778222.0	6925.6	GRD BRK
128	1530441.3	778189.2	6925.3	GRD BRK
129	1530496.2	778190.4	6925.4	GRD BRK
130	1530618.8	778274.2	6925.0	GRD BRK
131	1530255.0	778352.8	6920.0	OUTLET PIPE +/-
132	1530298.1	778270.0	6923.6	GRD BRK
133	1530456.4	778295.9	6925.1	GRD BRK @ ISLAND
134	1530407.4	778308.1	6924.0	GRD BRK @ ISLAND
135	1530387.6	778310.2	6924.0	GRD BRK @ ISLAND
136	1530476.4	778227.9	6924.0	GRD BRK @ ISLAND
137	1530358.8	778295.3	6924.0	GRD BRK @ ISLAND
138	1530444.7	778213.8	6923.8	GRD BRK @ ISLAND
139	1530354.8	778264.9	6924.0	GRD BRK @ ISLAND
140	1530360.5	778252.5	6923.5	GRD BRK @ ISLAND
141	1530407.5	778234.9	6923.4	GRD BRK @ ISLAND
142	1530260.6	778302.9	6923.6	GRD BRK
143	1530650.3	778343.1	6925.3	GRD BRK
144	1530653.9	778329.2	6925.3	GRD BRK
145	1530551.9	778358.5	6926.0	GRD BRK
146	1530571.3	778351.6	6926.0	GRD BRK
147	1530563.0	778221.9	6925.2	GRD BRK

FRANCIS SHORT POND DATA:

SPILLWAY ELEVATION:	6929.5 FT
NORMAL OPERATIONAL WATER SURFACE ELEVATION:	6928.5 FT
WATER STORAGE VOLUME AT OPERATIONAL W.S.E.:	9.1 AC-FT
POTENTIAL WATER AND/OR SEDIMENT STORAGE VOLUME AT SPILLWAY ELEVATION:	11.2 AC-FT

THE ABOVE VALUES ARE BASED UPON EXCAVATION COMPLETED PER THE LAYOUT CONTROL PROVIDED HEREIN.

- CONSTRUCTION NOTES:
- SEDIMENT REMOVAL FROM CONDITIONS AS OF 6/26/2023 BASED UPON THIS LAYOUT CONTROL PLAN:
- 1 4920 CY EXCAVATE, REMOVE AND DISPOSE OF THE ACCUMULATED SEDIMENT FROM WITHIN THE POND PER THE GRADING CONTROL PROVIDED HEREIN. COORDINATE WITH FLAGSTAFF WATER SERVICES DEPARTMENT FOR APPROVED DISPOSAL SITE.
 - 2 6 EA REMOVE AND SALVAGE SIX EXISTING AERATORS AND ASSOCIATED HOSES THAT ARE LOCATED AROUND THE EAST, SOUTH AND WESTERN EDGES OF THE EXISTING ISLAND. EXACT LOCATIONS UNKNOWN, BUT THERE MAY BE SOME SURFACE INDICATIONS (DIVOTS) IN THE SEDIMENT. REPLACE AERATORS AND HOSES UPON COMPLETION OF GRADING. COORDINATE WITH FLAGSTAFF WATER SERVICES FOR MORE INFORMATION.

- NOTES:
- THE GRADING CONTROL PROVIDED HEREIN IS BASED UPON THE ORIGINAL DESIGN DRAWINGS BY NCD DATED 11/17/2004 WITH MINOR MODIFICATIONS MADE BASED UPON FIELD OBSERVATIONS AND CURRENT CONDITIONS.
 - IF BEDROCK IS ENCOUNTERED DURING ANY EXCAVATION, NOTIFY THE ENGINEER. SOME SOIL MUST REMAIN OVER ANY BEDROCK TO MINIMIZE POTENTIAL WATER LOSS TO GROUNDWATER.
 - SURVEY CONTROL:
>EXISTING CONTOURS SHOWN ARE BASED UPON A SURVEY PERFORMED BY NCD IN JUNE OF 2023.

DATUM & COORDINATE GRID INFORMATION

HORIZONTAL DATUM:	NAD1983 (2011)
COORDINATE PROJECTION:	STATE PLANE ARIZONA CENTRAL FIPS 0202
VERTICAL DATUM:	VERTICAL DATUM: NAVD88 (GEOID 18)
GEOID MODEL:	UNITS: INTERNATIONAL FEET

NCD PRIMARY CONTROL POINT

NO.	NORTHING	EASTING	ELEVATION	STATION NAME	DESCRIPTION
1	1534327.11	784583.27	7116.38	DM7928	CCPW GEMINI DISK AT USGS BLDG.

ADDITIONAL REFERENCE POINTS

NO.	NORTHING	EASTING	ELEVATION	STATION NAME	DESCRIPTION
1	1530202.53	778272.13	6930.45	--	MH COVER #1 - CENTER
2	1530236.48	778196.12	6932.07	--	MH COVER #2 - CENTER
3	1530239.43	778215.59	6931.54	--	WATER VALVE COVER - CENTER

PLAN LEGEND:

EXISTING FEATURES		NEW FEATURES	
	EXISTING MAJOR CONTOUR (5 FT)		FINISHED MAJOR CONTOUR (5 FT)
	EXISTING MINOR CONTOUR (1 FT)		FINISHED MINOR CONTOUR (1 FT)
	EXISTING SEWER MANHOLE		LIMITS OF CUT
	EXISTING WATER VALVE		GRADE BREAK
	EXISTING POND PERIMETER WALL		

UNAUTHORIZED CHANGES & USES
 THE USER OF ANY DRAWING OR PLAN SHALL BE RESPONSIBLE FOR VERIFYING THE ACCURACY OF THE INFORMATION AND DATA PROVIDED IN THESE PLANS.
 DATE: 7/06/2023
 NCD PROJECT NUMBER: ---
 DRAWING NUMBER: PLN-01
 SHEET NUMBER: 1 of 1

FRANCIS SHORT POND
 2023 SEDIMENT REMOVAL
 CITY OF FLAGSTAFF
 WATER SERVICES

Design
 Natural Channel
 2800 N. WEST ST.
 Flagstaff, Arizona 86004
 (928) 774-2336