Print Form

INPUT DATA FOR JOB PLAN 1.0_P

Fill in the information identified in the blocks that are highlighted in yellow. The green shaded blocks are computed or copied values and no input is necessary. This information will be populated onto the Job Plan 1.0_P Drawing sheets.

Producer Name: _____

Legal Description: SE1/4 of SE1/4 of SE1/4 Section 36 Township _____ Range _____

County Name: Ziebach

Reset Quarter Section Choices

BASIC DAM INFORMATION:

Top of Dam Elevation _____ Top Width _____ ft. Allowance for Settlement _____%

Prin. Spwy. Crest Elev. _____ Barrel Invert Elev. _____ Outlet Invert Elev. _____

Aux. Spwy. Crest Elev. _____ Embankment Toe Elev. _____ Core Trench Bottom Width _____ ft.

Pipe Elbow (Y/N) Y Elbow Elev. _____ Outlet Pipe Length _____ ft. Pipe Outlet Slope _____%

Pipe Cantilever Length _____ ft. (Downstream Toe to Outlet)

Upstream S.S. Ratio: __:1 SS (above berm) Upstream S.S. Ratio: __:1 SS (below berm)

Downstream Sideslope Ratio: __:1 SS Prin. Spwy. Alignment - Skew angle _____ Degrees

NRCS Engineering Job Class II Hazard Classification: Low

STRUCTURE DATA		
Length of Top of Dam		*Feet*
Water Depth to Crest of Principal Spillway		*Feet*
Height of Downstream Toe to Top of Dam		*Feet*
Effective Height (Low point on Dam CL to Aux. Spillway Crest)		*Feet*
Product of Storage X Effective Height		

HYDRAULIC DATA		
Drainage Area		*Acres*
Annual Runoff Yield (50 % Chance Occurrence)		*Ac. Ft.*
Time of Concentration		*Hours*
Runoff Curve Number		
Principal Spillway, 2 *Year - 24 Hour Rainfall*		*Inches*
Auxiliary Spillway, 25 *Year - 24 Hour Rainfall*		*Inches*
P.S. Storm Peak Runoff ____ *Year - 24 Hour Event*		*CFS*
Principal Spillway Discharge		*CFS*
A.S. Storm Peak Runoff ____ *Year - 24 Hour Event*		*CFS*
Auxiliary Spillway Discharge		*CFS*
Auxiliary Spillway Flow Depth		*Feet*

SEDIMENT YIELD					
Erodibility Area	*Gross Rate (A.F./Ac./Yr.)*	*Drainage Area (Acres)*	*Delivery Rate (%)*	*Design Period (Years)*	*Req. Sed. Volume (Ac.-Ft.)*
H					

POOL DATA			
	ELEVATION	*AREA (acres)*	*STORAGE (AC. FT.)*
Crest of Principal Spillway			
Crest of Auxiliary Spillway			
Top of Dam			

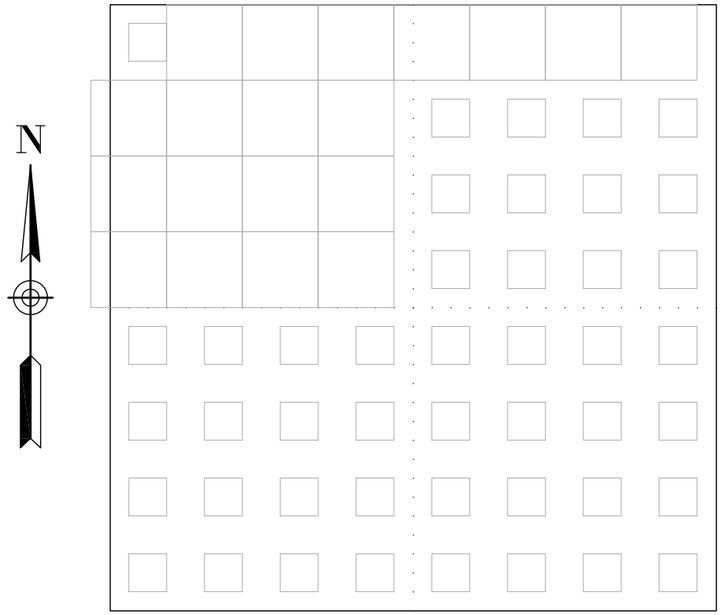
TABLE OF QUANTITIES			
ITEM	UNIT	ESTIMATED QUANTITY	AS-BUILT QUANTITY
Earthfill Class S -Embankment	*Cu. Yd.*		
Earthfill Class S -Core Trench	*Cu. Yd.*		
Earthfill Class S -Stripping	*Cu. Yd.*		
Total Earthfill	*Cu. Yd.*		
Topsoil Auxiliary Spillway	*Cu. Yd.*		
Seeding (Earthfill and Auxiliary Spillway)	*Acre*		
Principal Spillway Pipe *(Select Inlet Type)*			
" Dia. Pipe	*Lin. Ft.*		
" Dia. ft. Tall Riser and Base with Trash Rack and Baffle	*Each*		
	Each		
" Dia. Hooded Inlet and Baffle	*Each*		
Drainage Diaphragm	*Each*		
Timber Pipe Support	*Each*		

DESIGNERS INFORMATION:

Designed By: _____ Design Date: _____

Drawn By: _____ Drawn Date: _____

Checked By: _____ Check Date: _____



____, Sec ___, T ____, R ____

_____ County, South Dakota

LOCATION MAP

GENERAL NOTES

1. If cultural resources are discovered during construction, discontinue construction and notify the local Natural Resources Conservation Service office.
2. The landowner is responsible for complying with all federal, state, and local laws.

CONSTRUCTION NOTES

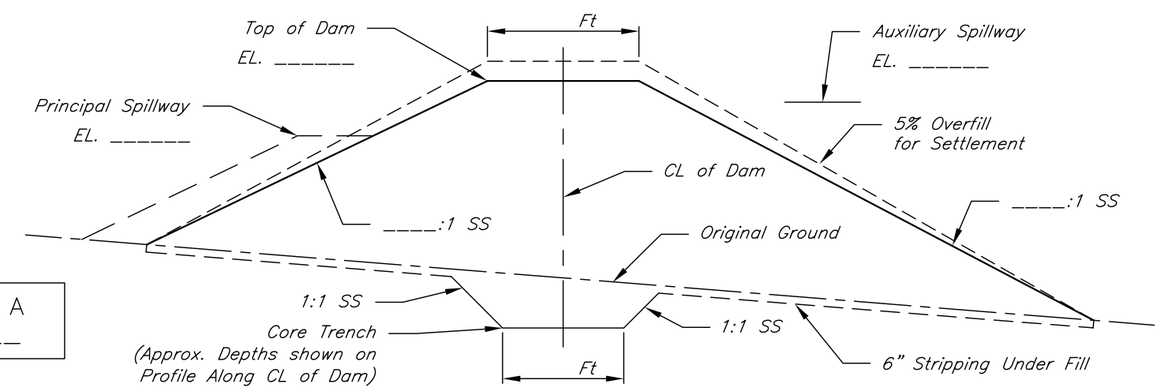
1. Clear and grub the entire area within the work limits.
2. All fill material must not contain frozen material, sod, roots, or other perishable material, or rock larger than eight inches in diameter as described in SD Construction Specification SD-7S.
3. Any shale, gravel, or sand that is exposed during borrow operations shall be immediately backfilled with 2 feet of clay material.
4. Six inches topsoil will be incorporated into the earthfill to meet the neat lines shown on the typical section.
5. All areas top-dressed with topsoil and disturbed during construction will be seeded according to SD Construction Specification SD-28.
6. _____

_____

_____

NO EXCAVATOR MAY BEGIN ANY EXCAVATION WITHOUT FIRST NOTIFYING THE ONE-CALL NOTIFICATION CENTER OF THE PROPOSED EXCAVATION AT 1-800-781-7474.

TABLE OF QUANTITIES			
ITEM	UNIT	QUANTITY	AS-BUILT
Earthfill Class S - Embankment	Cu. Yd.		
Earthfill Class S - Core Trench	Cu. Yd.		
Earthfill Class S - Stripping	Cu. Yd.		
Total Earthfill	Cu. Yd.		
Topsoil Auxiliary Spillway	Cu. Yd.		
Seeding (Earthfill and Auxiliary Spillway)	Acre		
Principal Spillway Pipe			
" Dia. Pipe	Lin. Ft.		
___" Dia. _____ Tall Riser and Base	Each		
with Trash Rack and Baffle	Each		
" Dia. Hooded Inlet and Baffle	Each		
Drainage Diaphragm	Each		
Timber Pipe Support	Each		



TYPICAL CROSS SECTION OF DAM

NRCS HAZARD CLASS A
NRCS JOB CLASS ___

SD CONSTRUCTION AND MATERIAL SPECIFICATIONS

SD-4 Stripping
SD-5 Excavation
SD-7S Earthfill - Class S
SD-10 Salvaging And Spreading Topsoil
SD-28 Seeding
SD-__ _____
SD-__ _____
SD-__ _____
SD-__ _____
SD-__ _____
SD-__ _____
SD-__ _____

For A Full Text Version See
http://www.sd.usda.gov/technical/SD_Engineering.html

INDEX OF DRAWINGS

1. Cover Sheet
2. Plan View and Design Data
3. Profile of Dam and Auxiliary Spillway and Cross-Section of Auxiliary Spillway
4. Profile of Principal Spillway
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____

STATEMENT OF COMPLIANCE

Construction (was) (was not) completed in accordance with approved construction plans and specifications.

_____
JAA Date

POND WITH PRINCIPAL SPILLWAY PIPE
JOB PLAN 1.0P REV. 1/2012

Date
Designed
Drawn
Checked
Approved

NAME: _____ 378 POND
COVER SHEET
____, Sec ___, T ____, R ____ County, South Dakota

NRCS
Natural Resources Conservation Service
United States Department of Agriculture

File No.
JP 1-0_P.dwg

Drawing No.
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Sheet 1 of 4

HYDRAULIC DATA		
Drainage Area		Acres
Annual Runoff Yield (50% Chance)		Ac. Ft
Time of Concentration		Hours
Runoff Curve Number		
Principal Spillway, __Year – 24 Hour Rainfall		Inches
Auxiliary Spillway, __Year – 24 Hour Rainfall		Inches
Peak Runoff __Year – 24 Hour Rainfall		CFS
Principal Spillway Discharge		CFS
Peak Runoff __Year – 24 Hour Rainfall		CFS
Auxiliary Spillway Discharge		CFS
Auxiliary Spillway Flow Depth		Feet

STRUCTURE DATA		
Length of Top of Dam		Feet
Water Depth to Crest of Principal Spillway		Feet
Height of Downstream Toe to Top of Dam		Feet
Effective Height		Feet
Product of Storage X Effective Height		

POOL DATA			
	ELEV.	AREA	STORAGE
Crest of Principal Spillway		Ac.	Ac.–Ft
Crest of Auxiliary Spillway		Ac.	Ac.–Ft
Top of Dam		Ac.	Ac.–Ft

SEDIMENT YIELD					
Erodibility Area	Gross Rate (A.F./Ac./Yr.)	Drainage Area (Acres)	Delivery Rate (%)	Design Period (Years)	Required Sediment Volume (Ac.–Ft.)

BENCHMARK POINTS TABLE					
NO.	ID	ELEVATION	NORTHING	EASTING	BENCHMARK DESCRIPTION
	BM1				
	BM2				

N

PLAN VIEW

0

Scale in Feet

Date

Designed

Drawn

Checked

Approved

NAME: 378 POND

PLAN VIEW AND DESIGN DATA

____, Sec ___, T ____, R ____ County, South Dakota

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Drawing No.
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Sheet 2 of

CROSS – SECTION AT CREST OF AUXILIARY SPILLWAY AND PROFILE ALONG CL OF DAM

MAXIMUM CROSS SECTION OF DAM

PROFILE ALONG CL OF AUXILIARY SPILLWAY

Date

Designed

Drawn

Checked

Approved

NAME: 378 POND

PROFILES AND CROSS-SECTIONS OF DAM AND AUXILIARY SPILLWAY

____, Sec ___, T ____, R ____ County, South Dakota

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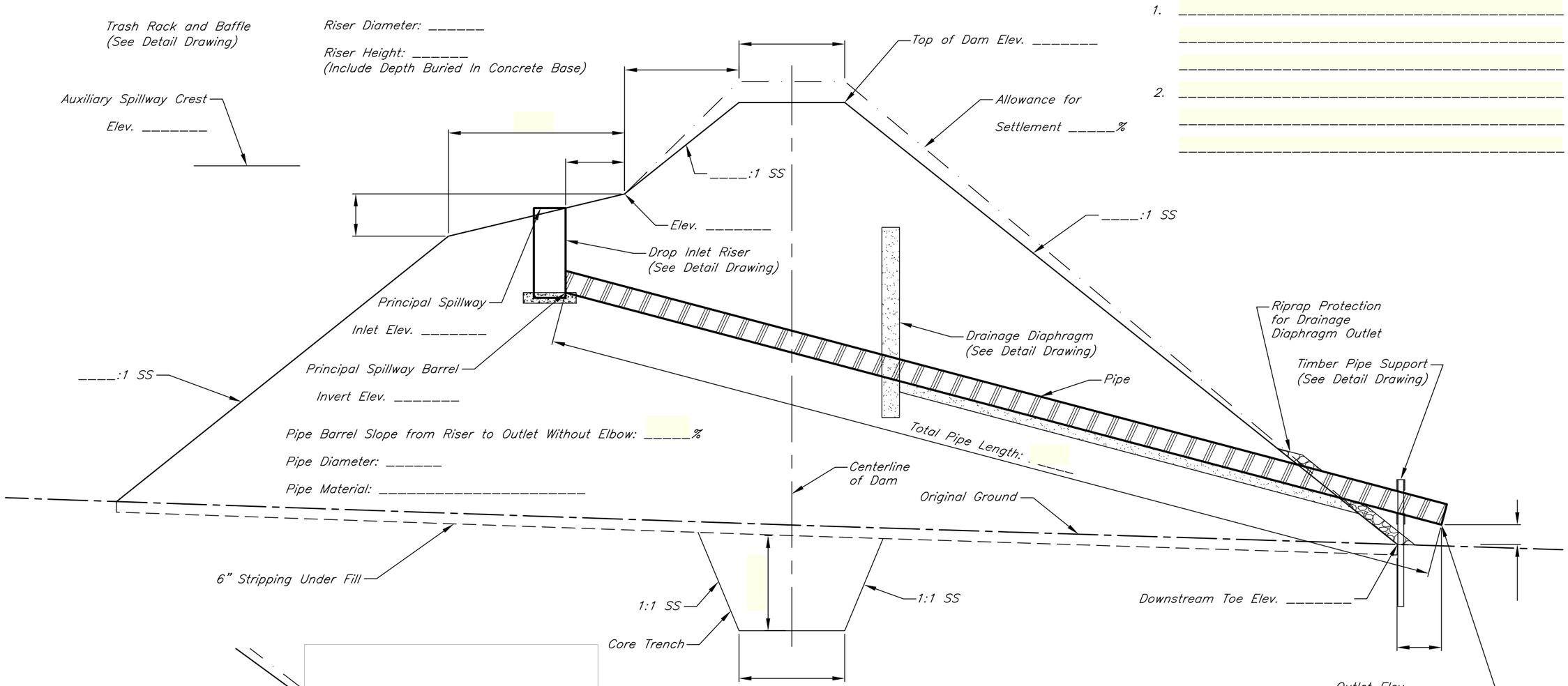
Sheet 3 of

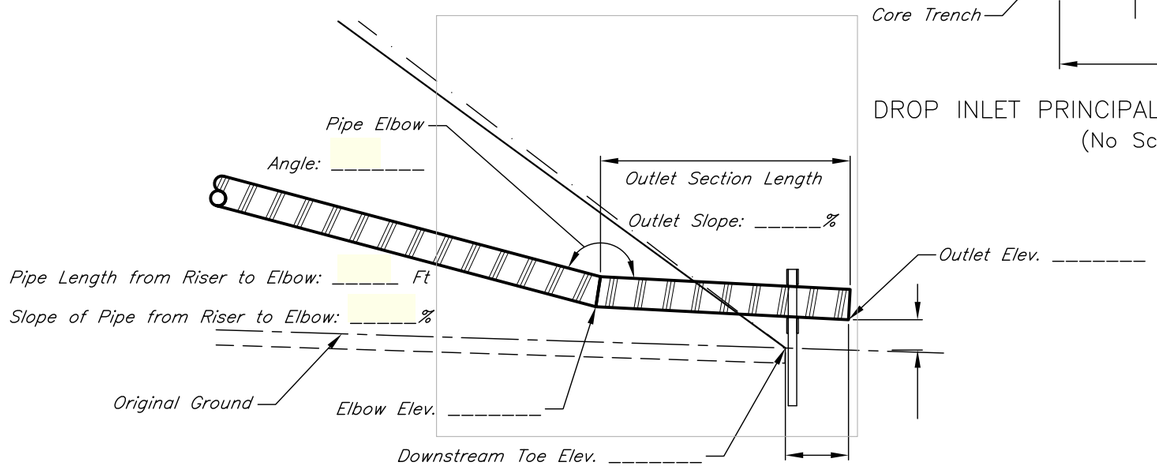
CONSTRUCTION NOTES

1. _____
_____
_____

2. _____
_____
_____



DROP INLET PRINCIPAL SPILLWAY PROFILE
(No Scale)



OPTIONAL OUTLET WITH ELBOW
(No Scale)

TRENCH SAFETY NOTES

1. All trench work shall comply with the Occupational Safety and Health Administration (OSHA) regulations.

2. Any trench over four (4) feet deep shall have a means of egress from the trench by a ladder, ramp, or other means of egress; and

3. Any trench over five (5) feet deep shall be protected from cave-ins by a sloping, benching or shoring protection system. Benches must be constructed so the overall slope meets the slope required by OSHA regulations.

DROP INLET PRINCIPAL SPILLWAY AND WAVE BERM PROFILE

Date
Designed
Drawn
Checked
Approved

NAME: 378 POND
PROFILE OF PRINCIPAL SPILLWAY
____, Sec ____, T ____, R ____ County, South Dakota

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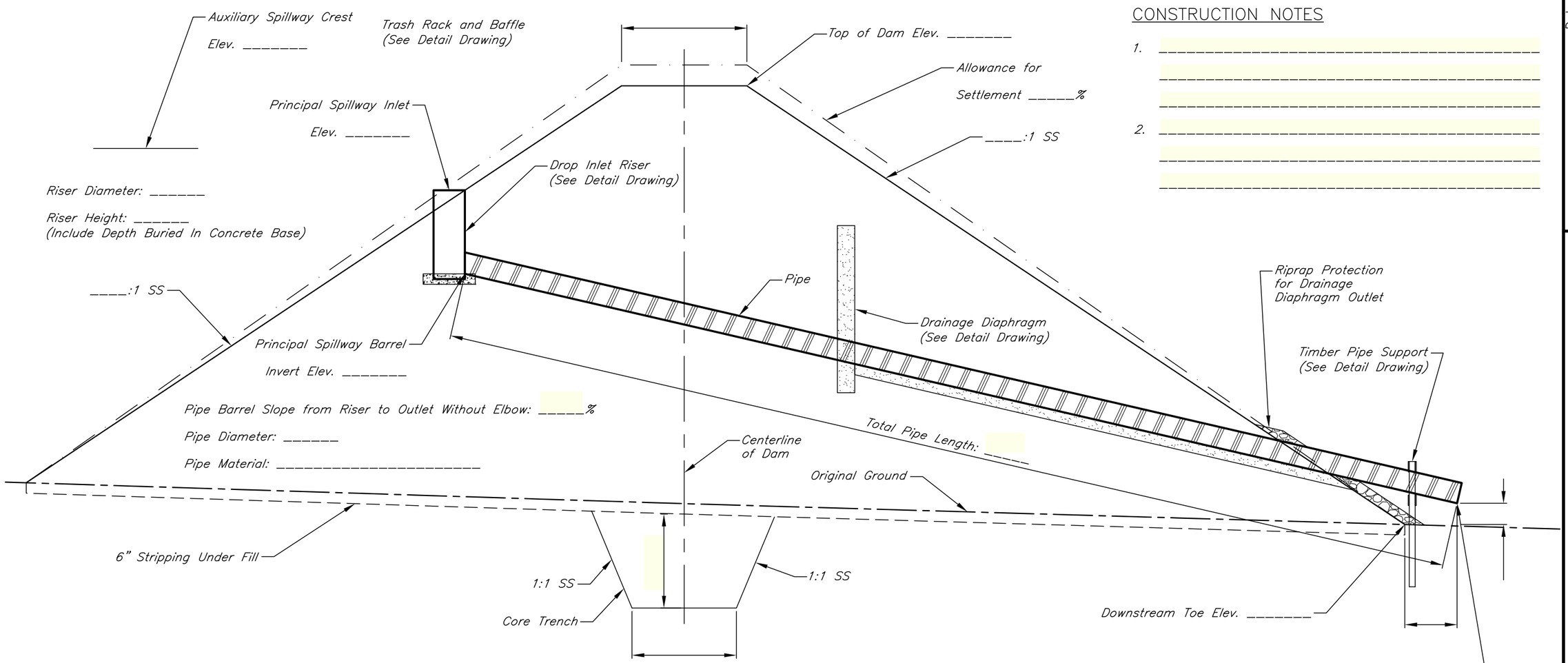

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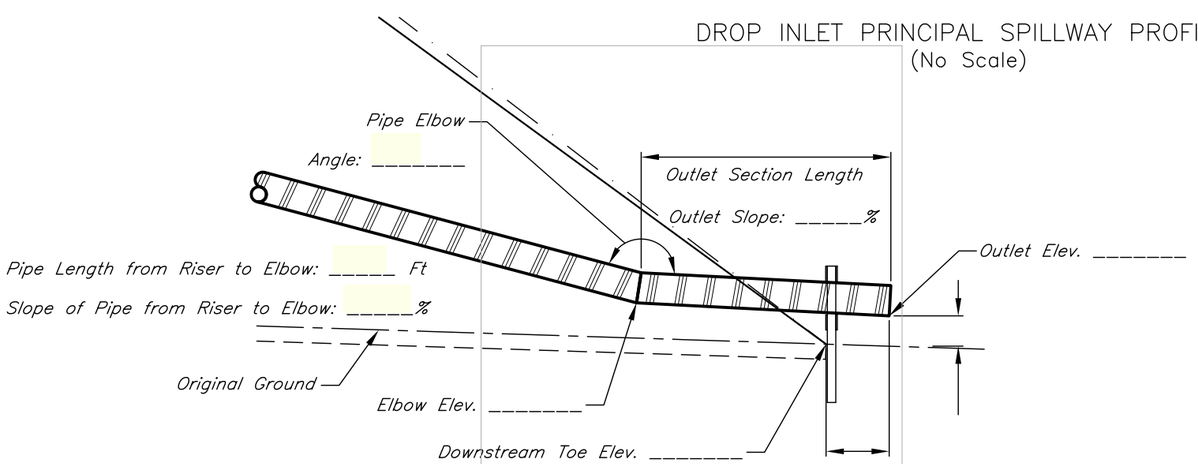
(No Scale)



OPTIONAL OUTLET WITH ELBOW
(No Scale)

CONSTRUCTION NOTES

1. _____
_____
_____

2. _____
_____
_____

TRENCH SAFETY NOTES

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DROP INLET PRINCIPAL SPILLWAY PROFILE

Date
Designed
Drawn
Checked
Approved

NAME: 378 POND
PROFILE OF PRINCIPAL SPILLWAY
___, Sec ___, T ___, R ___, County, South Dakota

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United States Department of Agriculture

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Drawing No.
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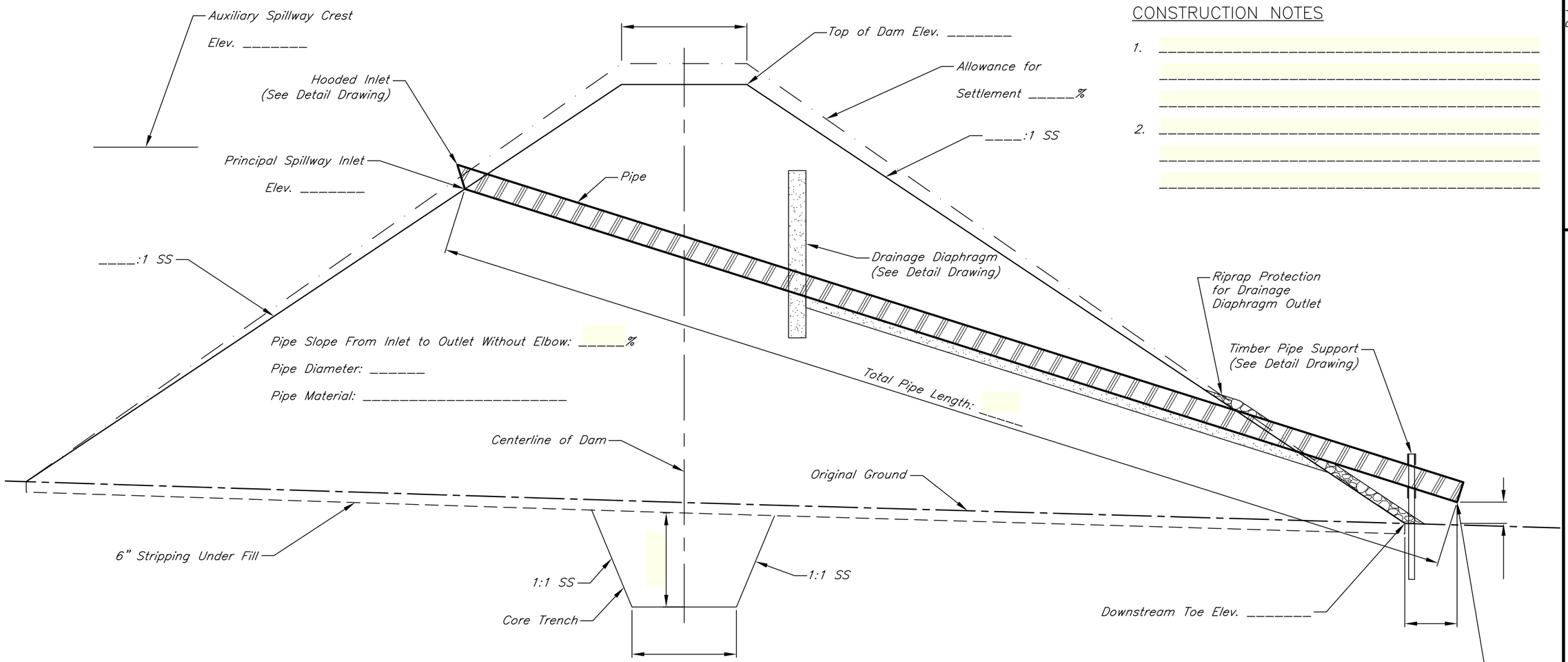
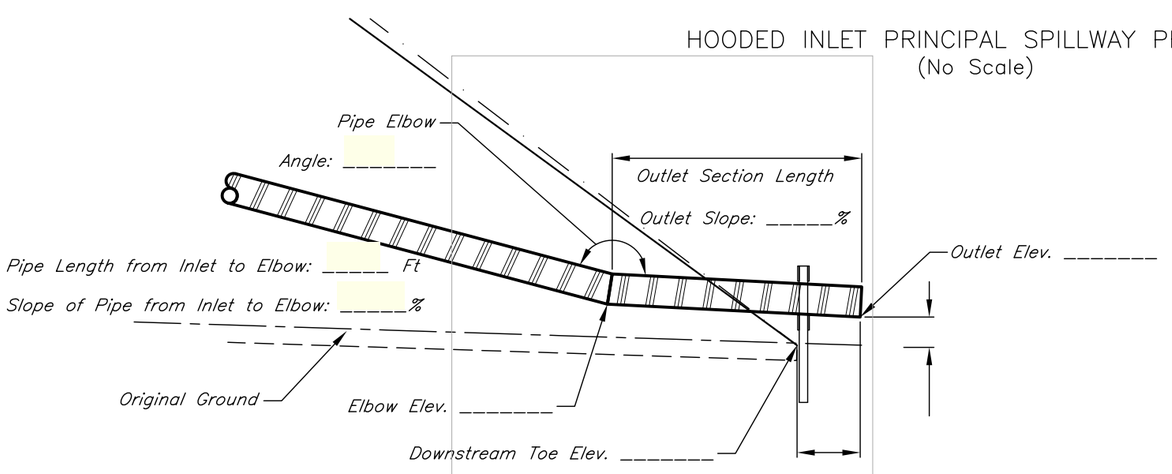


HOODED INLET PRINCIPAL SPILLWAY PROFILE
(No Scale)



OPTIONAL OUTLET WITH ELBOW
(No Scale)

CONSTRUCTION NOTES

1. _____
_____
_____

2. _____
_____
_____

TRENCH SAFETY NOTES

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HOODED INLET PRINCIPAL SPILLWAY PROFILE

Date
Designed
Drawn
Checked
Approved

NAME: _____ 378 POND
PROFILE OF PRINCIPAL SPILLWAY
____, Sec ____, T ____, R ____ County, South Dakota

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