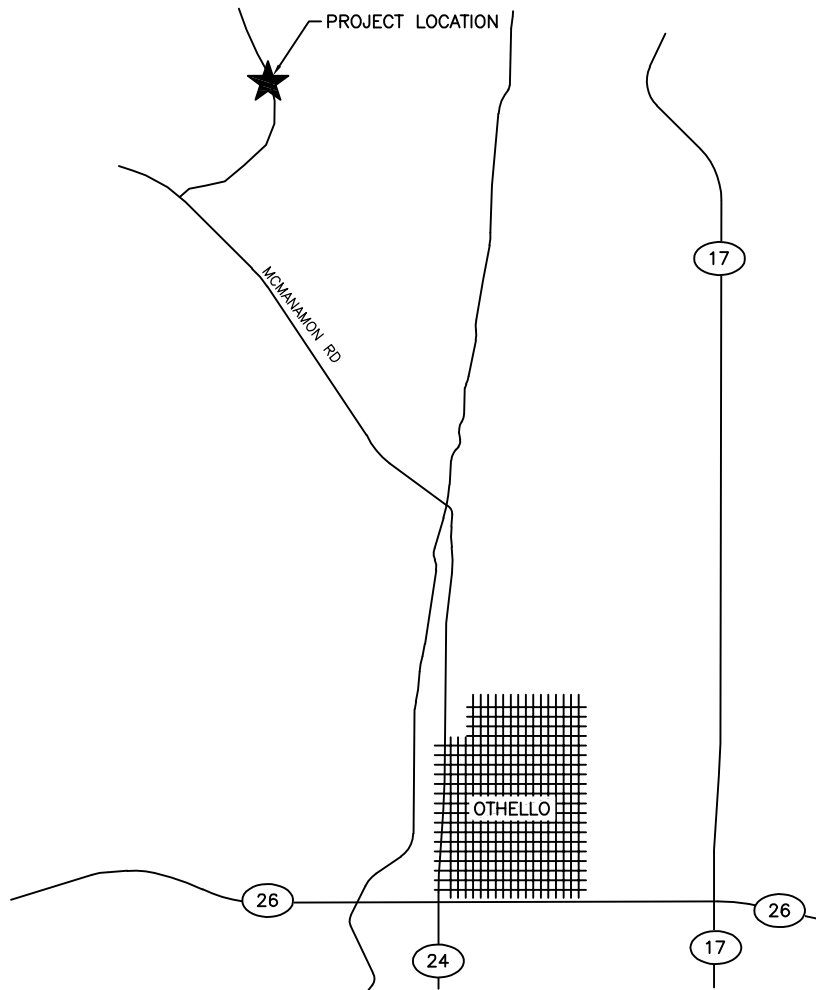


STATE MAP
NOT TO SCALE



ENG. PROJECT NO. A612:17-1

PORTION OF: _____

DRAWN BY: N. WHITE

REFERENCE NUMBER:
 APPLICANT:
 WASHINGTON DEPT. of FISH & WILDLIFE
 600 CAPITOL WAY N.
 OLYMPIA, WA 98501-1091

PROJECT LOCATION (ADDRESS):

PROPOSED PROJECT:
 SEEPS CULVERT REPLACEMENT

ADJACENT PROPERTY OWNER:

LAT/LONG: LAT/LONG

IN: HERMAN LAKE

NEAR/AT: OTHELLO

1.

DATUM: 88

COUNTY: ASOTIN

2.

SHEET 1 OF

DATE: 8-7-17

STATE: WA



Potholes
State Park

262

262

262

17

170

17

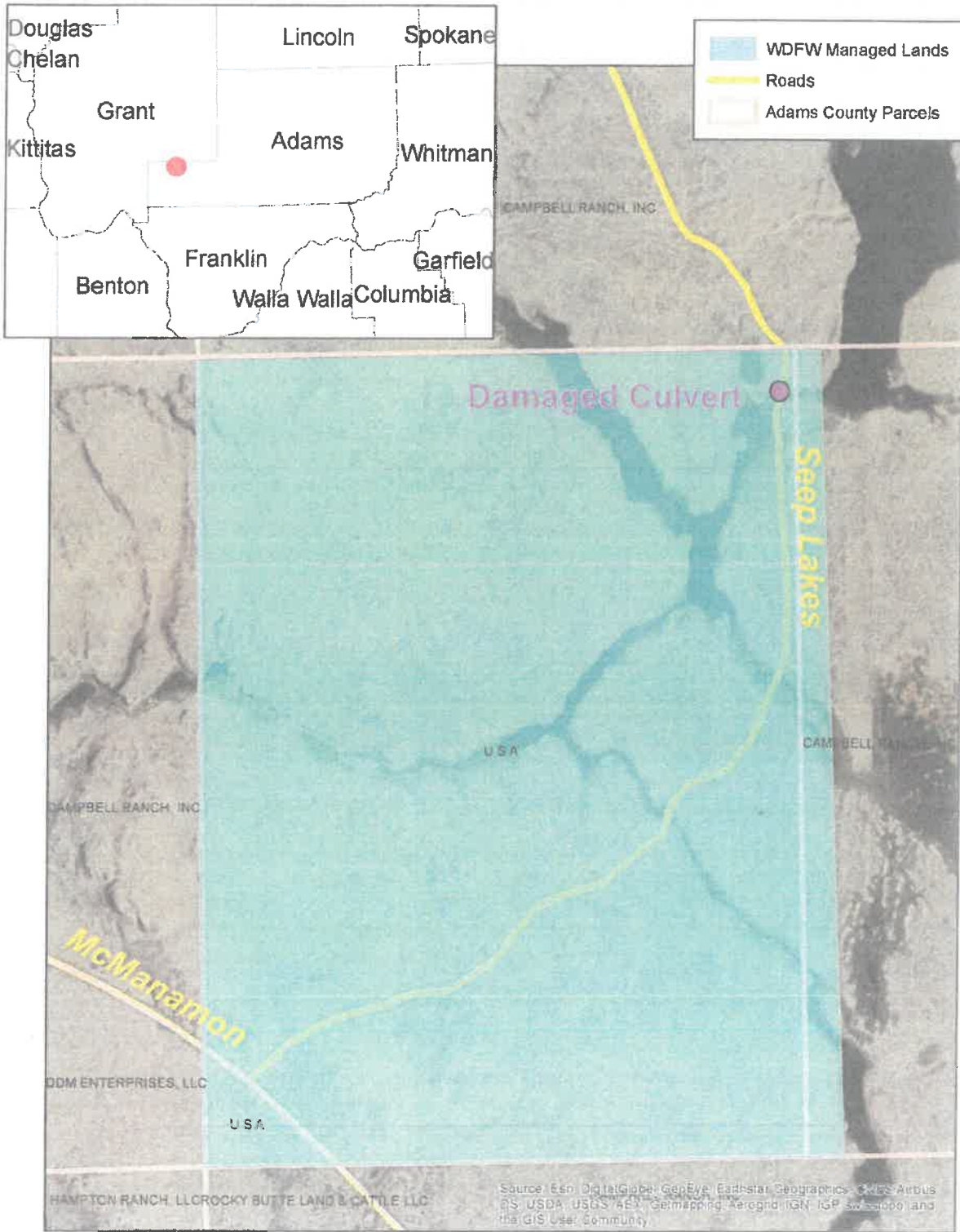
Columbia
National
Wildlife
Refuge

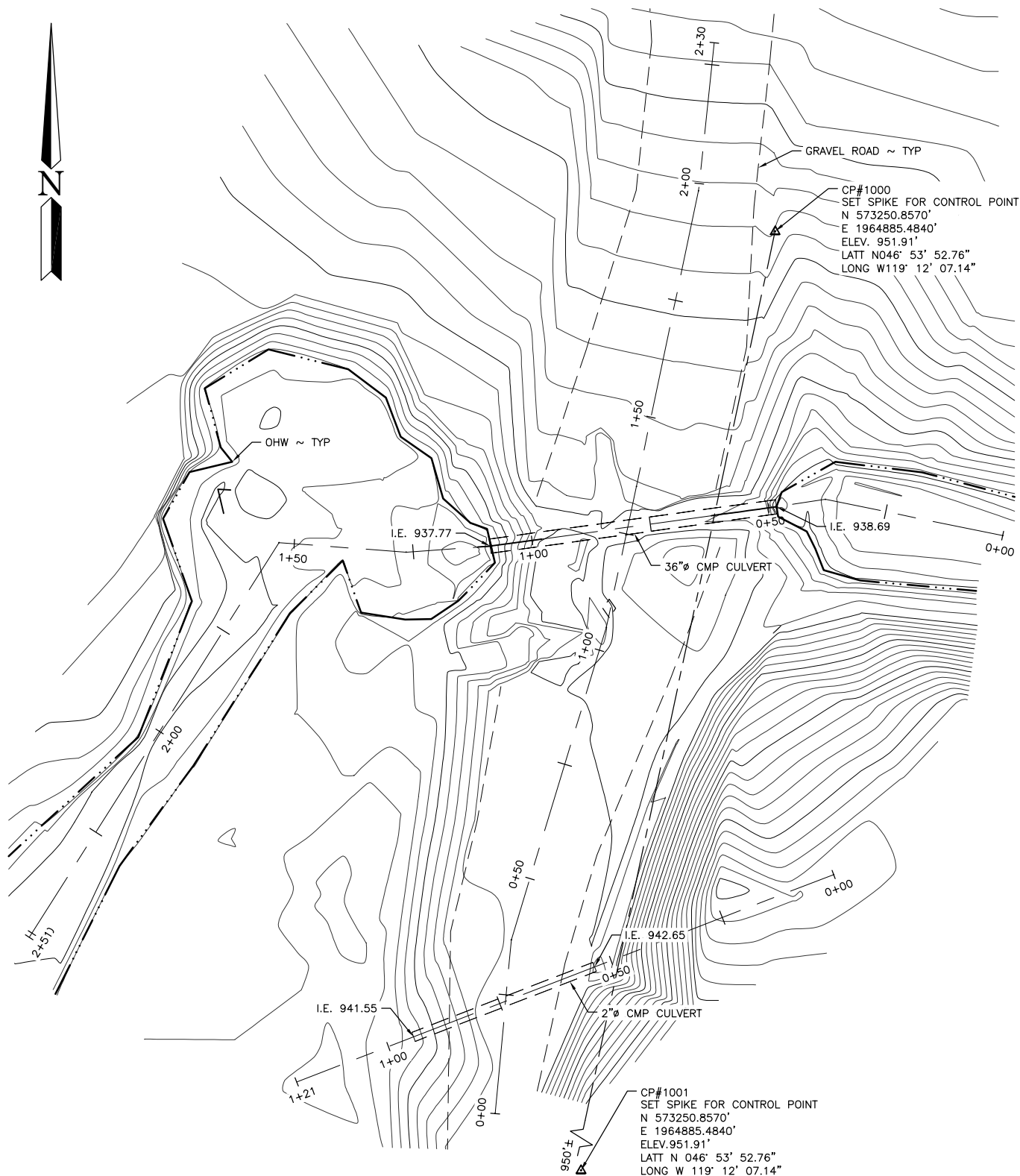
X

17

17

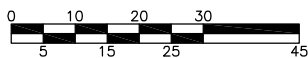
Seeps Lake Road Culvert Repair





EXISTING SITE PLAN

SCALE: 1" = 30'



SCALE: 1" = 30'

REFERENCE NUMBER:

APPLICANT NAME:

WASHINGTON DEPT. of FISH & WILDLIFE

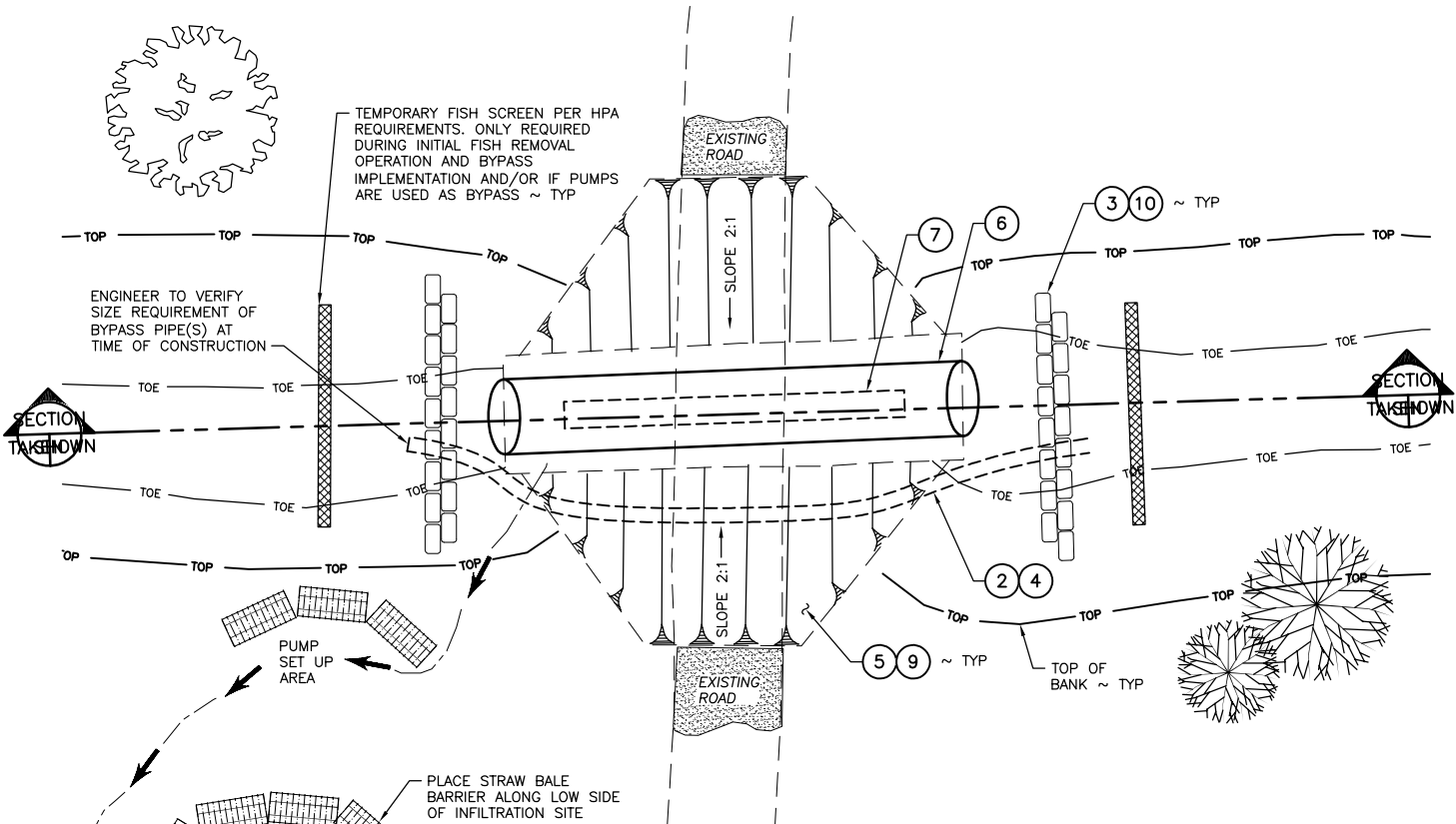
PROPOSED PROJECT:

SEEPS CULVERT REPLACEMENT

LOCATION: HERMAN LAKE ACCESS

SHEET 2 OF

DATE:



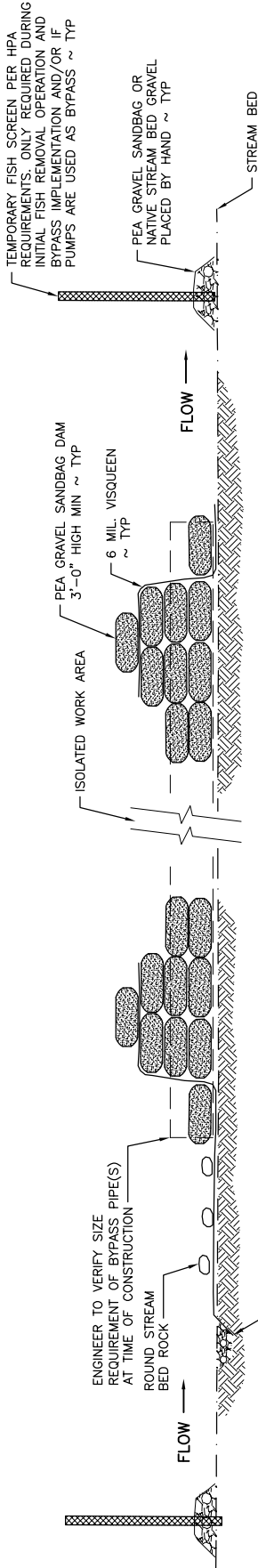
**CULVERT REPLACEMENT
DEWATERING PLAN**
NOT TO SCALE

NOTES:

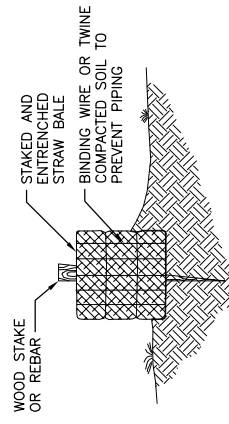
1. ALL WORK SHALL BE IN ACCORDANCE WITH HPA.
2. DURING CONSTRUCTION (IF WATER IS PRESENT) STREAM FLOW SHALL BE DIVERTED THROUGH BYPASS PIPE. IF HIGH FLOW, (2) DIVERSION PIPES MAY BE NEEDED.
3. PLACE BAGS FILLED WITH PEA GRAVEL TO SEAL BYPASS INLET AND OUTLET
4. DIVERSION SHALL BE APPROVED BY INSPECTOR/ ENGINEER PRIOR TO REMOVING EXISTING CULVERT(S).
5. EXCAVATE EXISTING FILL
6. REMOVE EXISTING CULVERT AND DISPOSE OF OFF SITE.
7. PLACE NEW CULVERT. MIX AND REMOVE BYPASS PIPE.
8. COVER ALL EXPOSED SOIL WITH STRAW MULCH AND GRASS SEED. (SEE SITE RESTORATION PLAN)
9. REMOVE DIVERSION BAGS AND FISH SCREENS BY HAND.

PUMP STANDING WATER FROM CONSTRUCTION AREA TO UPLAND INFILTRATION SITE. (SITE TO BE STAKED IN FIELD BY ENGINEER PRIOR TO CONSTRUCTION)

REFERENCE NUMBER:
 APPLICANT NAME:
WASHINGTON DEPT. of FISH & WILDLIFE
 PROPOSED PROJECT:
SEEPS CULVERT REPLACEMENT
 LOCATION: HERMAN LAKE ACCESS
 SHEET **3** OF DATE: **8-7-17**



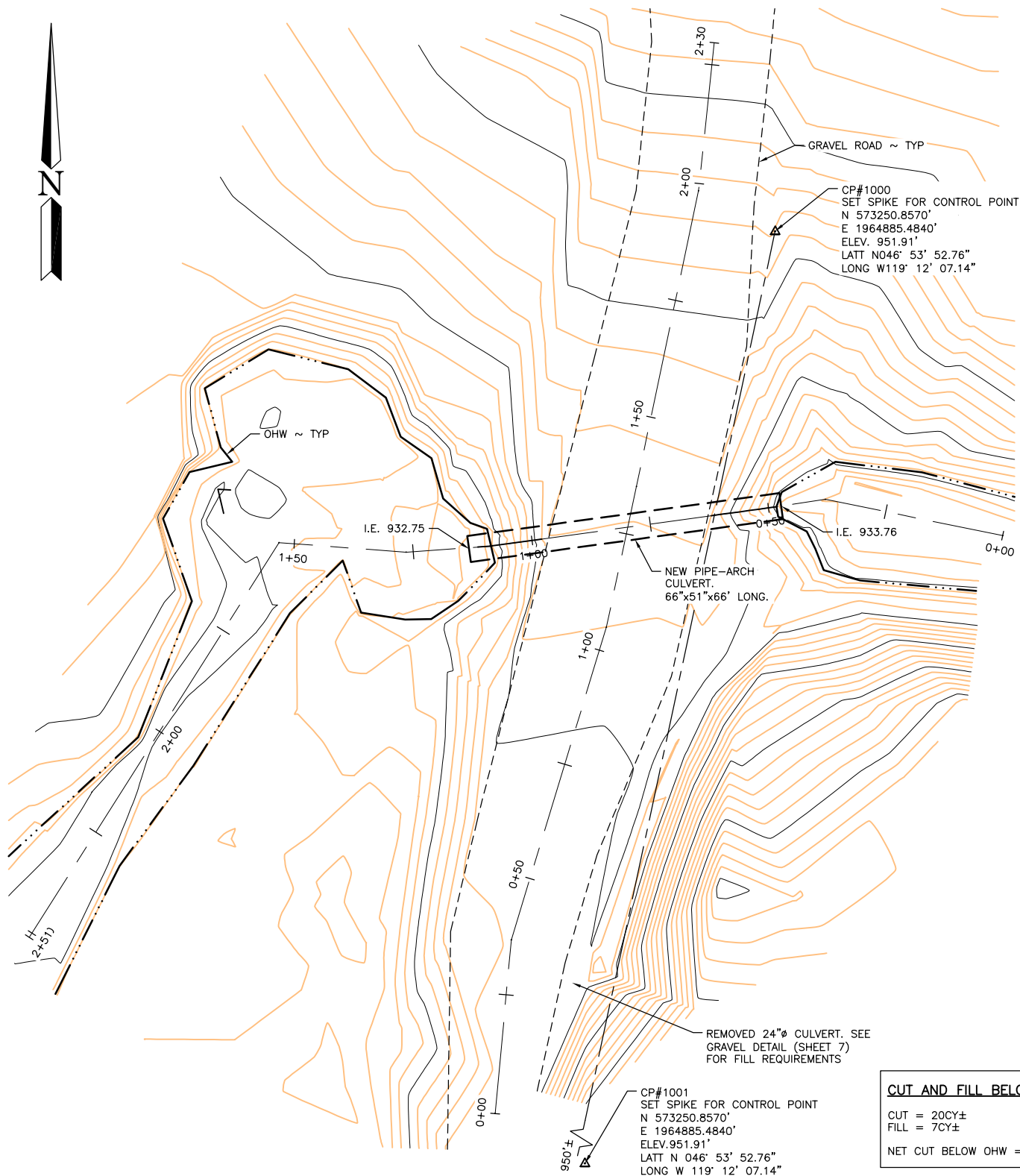
SECTION A
NOT TO SCALE
3 | 4



STRAW BALE
NOT TO SCALE
1
3 | 4

NOTE:

BALES SHALL BE PLACED IN A SINGLE ROW LENGTHWISE ON THE CONTOUR, WITH ENDS OF ADJACENT BALES TIGHTLY BUTTING ONE ANOTHER. THE BARRIER SHALL BE STRENGTHENED AND BACKFILLED TO PREVENT THE A MANNER OF INCHES BACKFILL SOIL SHALL BE BUILT UP TO THE GROUND LEVEL ON THE DOWNHILL SIDE AND SHALL BE BUILT UP 4 INCHES AGAINST THE UPHILL SIDE OF THE BARRIER. EACH BALE SHALL BE SECURELY ANCHORED BY AT LEAST 2 STAKES OR REBAR DRIVEN THROUGH THE BALE. THE GAP BETWEEN THE BALES SHALL BE CHINKED (FILLED BY WEDGING) WITH STRAW TO PREVENT WATER FROM ESCAPING BETWEEN THE BALES.



CP#1000
 SET SPIKE FOR CONTROL POINT
 N 573250.8570'
 E 1964885.4840'
 ELEV. 951.91'
 LATT N046° 53' 52.76"
 LONG W119° 12' 07.14"

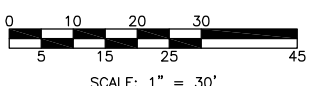
NEW PIPE-ARCH
 CULVERT,
 66'x51'x66' LONG.

REMOVED 24"Ø CULVERT. SEE
 GRAVEL DETAIL (SHEET 7)
 FOR FILL REQUIREMENTS

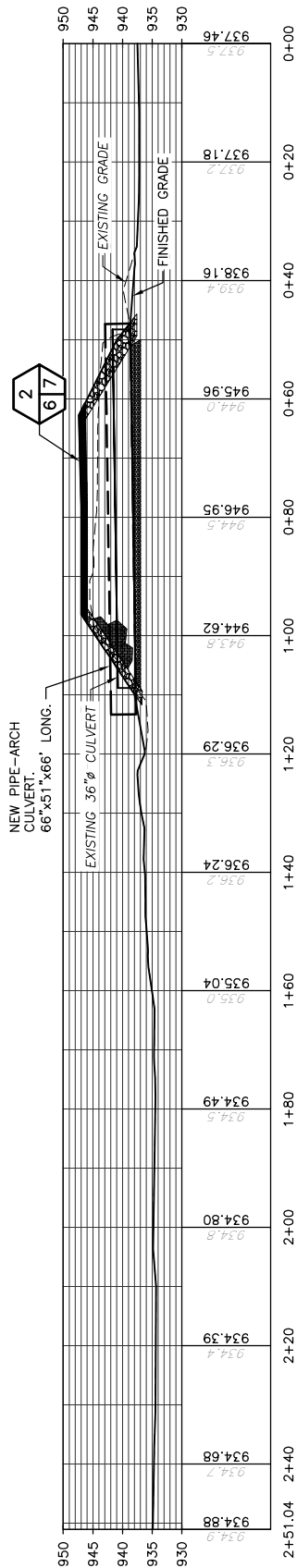
CP#1001
 SET SPIKE FOR CONTROL POINT
 N 573250.8570'
 E 1964885.4840'
 ELEV. 951.91'
 LATT N 046° 53' 52.76"
 LONG W 119° 12' 07.14"

CUT AND FILL BELOW OHW
 CUT = 20CY±
 FILL = 7CY±
 NET CUT BELOW OHW = 13CY±

NEW SITE PLAN
 SCALE: 1" = 30'

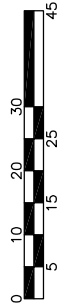


REFERENCE NUMBER:
 APPLICANT NAME:
WASHINGTON DEPT. of FISH & WILDLIFE
 PROPOSED PROJECT:
SEEPS CULVERT REPLACEMENT
 LOCATION: HERMAN LAKE ACCESS
 SHEET 5 OF DATE: 8-7-17

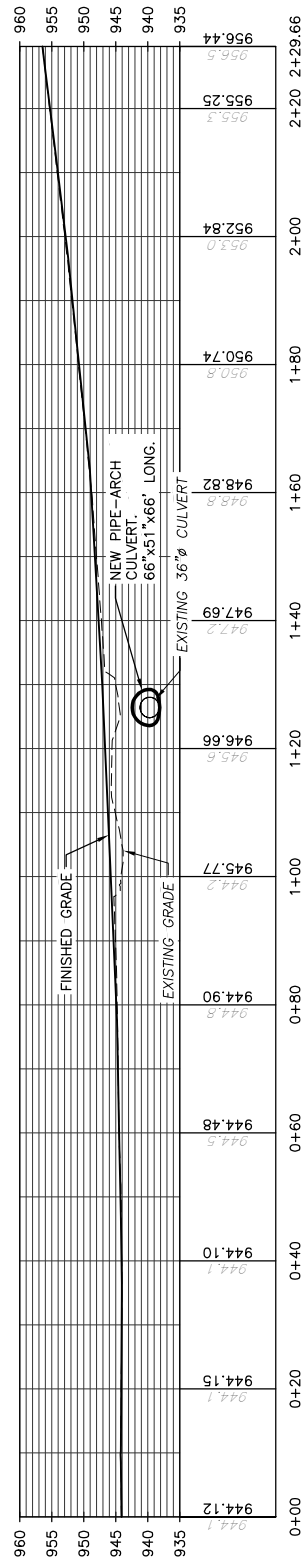


CULVERT PROFILE

SCALE: 1" = 30'



SCALE: 1" = 30'



ROAD PROFILE

SCALE: 1" = 30'



SCALE: 1" = 30'

REFERENCE NUMBER:

APPLICANT NAME:

WASHINGTON DEPT. of FISH & WILDLIFE

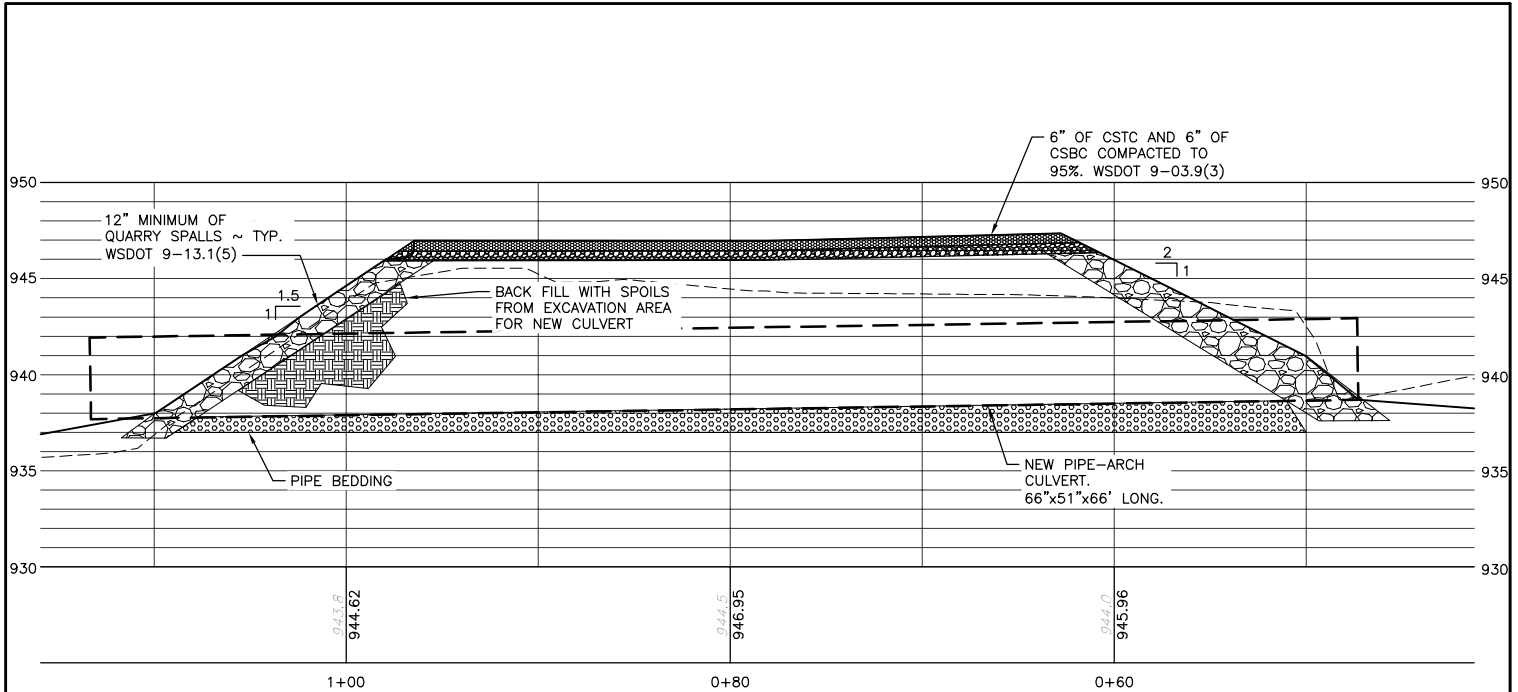
PROPOSED PROJECT:

SEEPS CULVERT REPLACEMENT

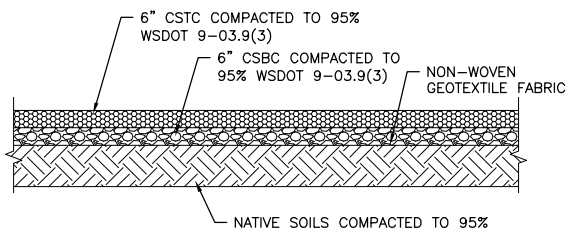
LOCATION: HERMAN LAKE ACCESS

SHEET 6 OF

DATE: 8-7-17



DETAIL
SCALE: 1" = 10'



GRAVEL DETAIL
NOT TO SCALE

REFERENCE NUMBER:
 APPLICANT NAME:
WASHINGTON DEPT. of FISH & WILDLIFE
 PROPOSED PROJECT:
SEEPS CULVERT REPLACEMENT
 LOCATION: HERMAN LAKE ACCESS
 SHEET 7 OF DATE: 8-7-17