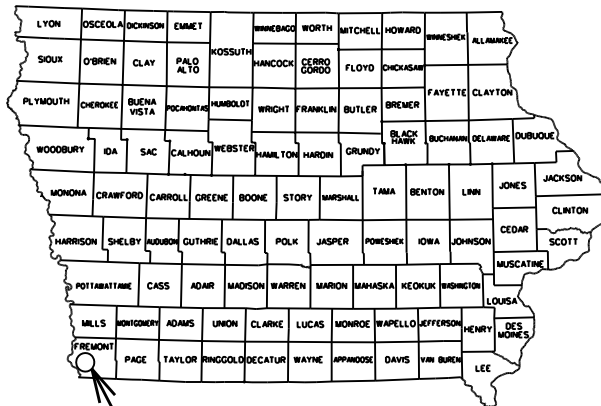


IOWA DEPARTMENT OF NATURAL RESOURCES ENGINEERING BUREAU

CONSTRUCTION PLANS FOR WAUBONSIE STATE PARK

FREMONT COUNTY
WATER DISTRIBUTION TO CABINS
PROJECT NO. 09-04-36-03

LOCATION MAP



PROJECT LOCATION



PLANS PREPARED BY
ENGINEERING BUREAU
DIVISION OF MANAGEMENT SERVICES

ESTIMATE OF QUANTITIES

ITEM NO.	DESCRIPTION	QUANTITY
1	PLUG WELLS	3 EACH
2	FLUSH HYDRANTS	2 EACH
3	CONNECT WASH HOUSE	2 EACH
4	DISCONNECT WATER SERVICE	4 EACH
5	REMOVE AND REPLACE YARD HYDRANT & VALVE	4 EACH
6	REMOVE YARD HYDRANT	3 EACH
7	REPLACE 3" VALVE	1 EACH
8	REPLACE 2" DRAIN VALVE	2 EACH
9	INSTALL YARD HYDRANT	4 EACH
10	2" WATER MAIN	3000 LF
11	SYSTEM DISINFECTION & TESTING EQUIPMENT	1 LS

REVISIONS

_____	DATE _____
_____	DATE _____
_____	DATE _____

VICINITY MAP



PROJECT LOCATION



I hereby certify that this engineering document was prepared by me or under my direct personal supervision and that I am a duly licensed Professional Engineer under the laws of the State of Iowa.

Shahid Hameed _____ Date _____

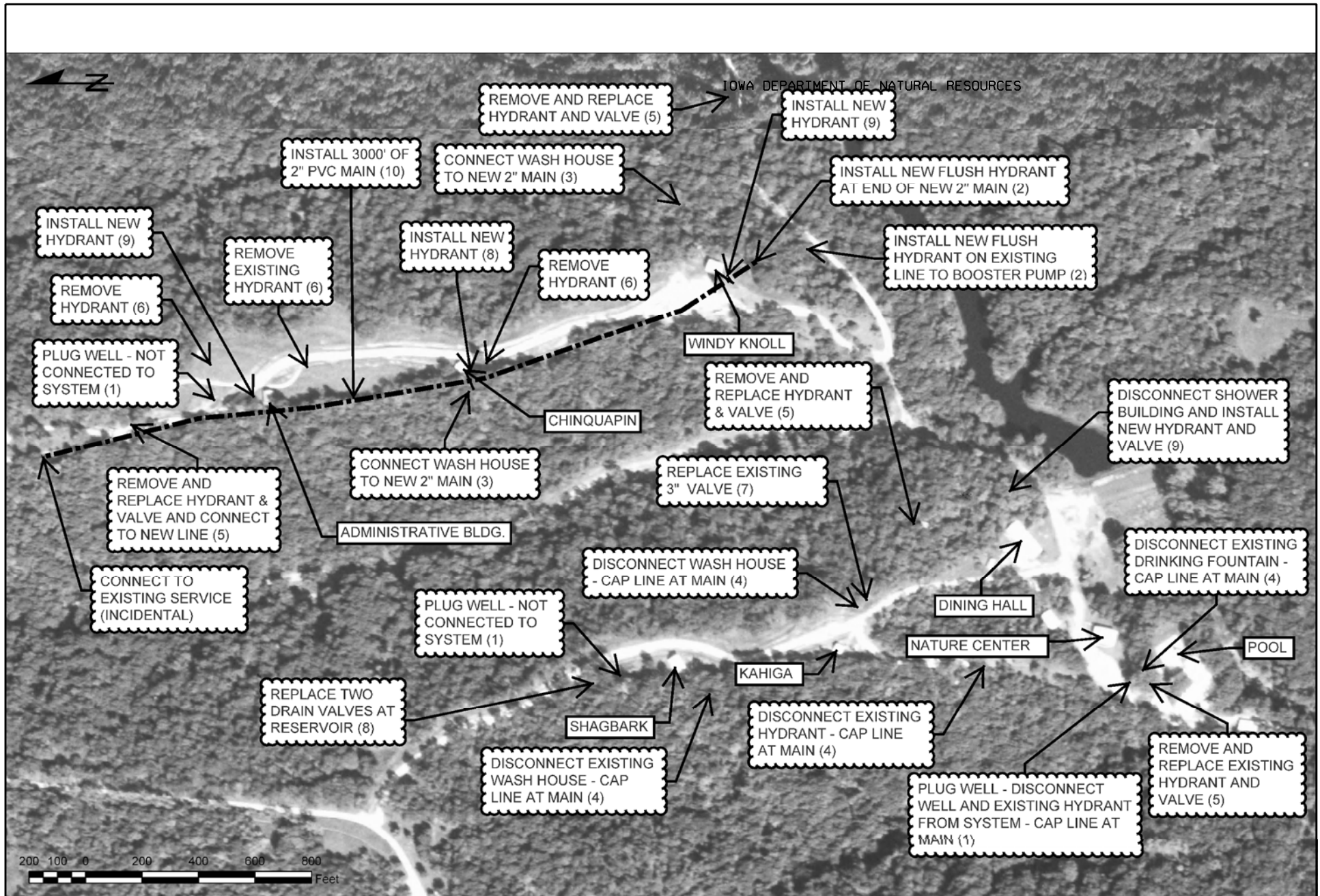
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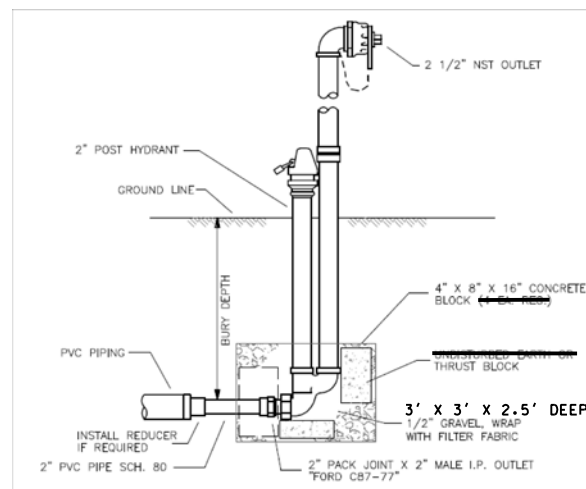
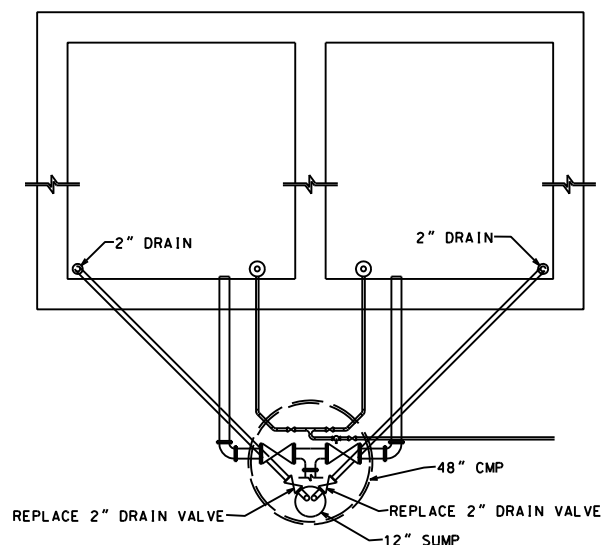
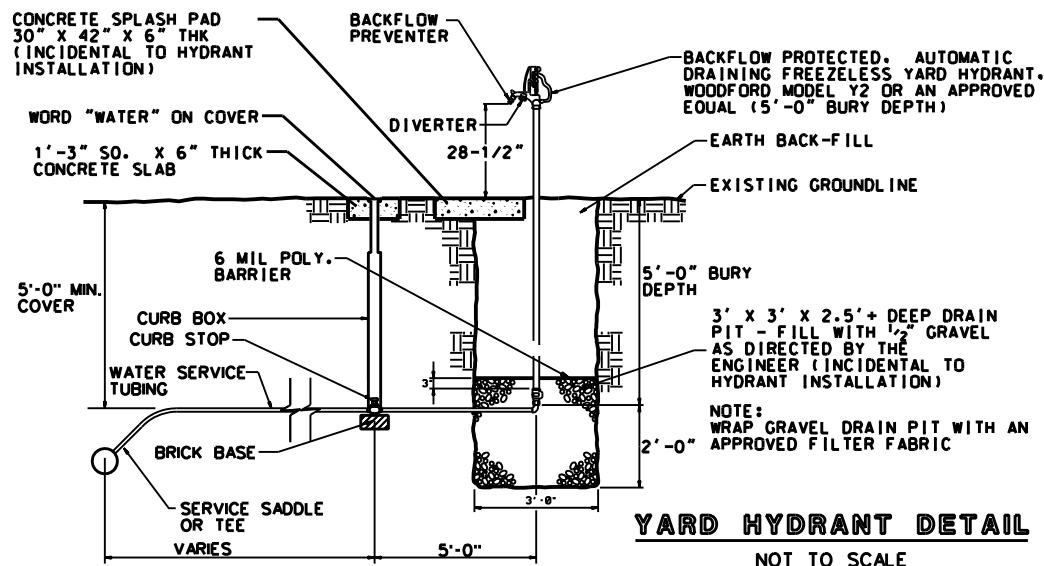
Pages or sheets covered by this seal: ALL

DRAWING INDEX

TITLE	SHEET NO.
TITLE SHEET, ESTIMATE OF QUANTITIES, LOCATION MAPS	1
SITE PLAN	2
TYPICAL DRAWINGS	3

PROJECT: WATER SYSTEM IMPROVEMENT PROJ. NO. 09-04-36-03
AREA: WAUBONSIE STATE PARK COUNTY: FREMONT





GENERAL NOTES:

1. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK AND SHALL BE RESPONSIBLE FOR ANY OR ALL DAMAGES WHICH MAY RESULT FROM THE CONTRACTORS FAILURE TO LOCATE AND PRESERVE ANY AND ALL BURIED UTILITIES
2. THE LOCATION OF THE NEW WATER LINE, AND NEW SERVICES SHOWN IS APPROXIMATE - THE ACTUAL LOCATION WILL BE STAKED BY THE DNR CONSTRUCTION INSPECTOR.
3. MAINTAIN A MINIMUM OF 5 FEET COVER OVER WATER LINES
4. ANY TREES AND BRUSH IN THE WAY OF CONSTRUCTION SHALL BE REMOVED ONLY IF SO DIRECTED BY THE D.N.R. CONSTRUCTION INSPECTOR. TUNNEL, INSTALL TIGHT SHEETING, HAND EXCAVATE OR EMPLOY OTHER MEANS APPROVED BY THE D.N.R. CONSTRUCTION INSPECTOR TO PROTECT EXPOSED PORTIONS AND ROOT SYSTEMS OF TREES AND OTHER VEGETATION NOT TO BE REMOVED. TREES AND OTHER VEGETATION DAMAGED DURING TRENCHING OPERATIONS SHALL BE REPLACED BY THE CONTRACTOR AT NO COST TO THE OWNER. TREE REMOVAL IS CONSIDERED INCIDENTAL TO OTHER ITEMS OF WORK AND WILL NOT BE PAID FOR SEPARATELY.
5. THE CONTRACTOR SHALL SEED, FERTILIZE AND MULCH AREAS DISTURBED BY TRENCHING OPERATIONS AS DIRECTED BY THE D.N.R. INSPECTOR. THE COST OF SEEDING SHALL BE CONSIDERED INCIDENTAL TO OTHER ITEMS OF WORK AND WILL NOT BE PAID FOR SEPARATELY.
6. PROVIDE THRUST BLOCKS AT ALL ABRUPT CHANGES IN DIRECTION: TEES, BENDS, DEAD ENDS, AND HYDRANTS. THE COST OF THRUST BLOCKS SHALL BE CONSIDERED INCIDENTAL TO OTHER ITEMS OF WORK AND WILL NOT BE PAID FOR SEPARATELY.
7. THE COST OF ALL OTHER PIPE FITTINGS NOT ITEMIZED SHALL BE CONSIDERED INCIDENTAL TO OTHER ITEMS OF WORK AND WILL NOT BE PAID FOR SEPARATELY.
8. FINAL LOCATION OF ALL YARD HYDRANTS IS TO BE DETERMINED BY THE D.N.R. CONSTRUCTION INSPECTOR.
9. CONTRACTOR SHALL VERIFY ALL DIMENSIONS & CONDITIONS SHOWN ON THE DRAWINGS AT THE JOB SITE AND SHALL NOTIFY IN WRITING THE D.N.R. CONSTRUCTION INSPECTOR OF ANY OMISSIONS, DISCREPANCIES AND/OR CONFLICT BEFORE PROCEEDING WITH ANY CONSTRUCTION.
10. DO NOT SCALE DRAWINGS. DIMENSIONS GOVERN.
11. THE CONTRACTOR SHALL SECURE ALL REQUIRED BUILDING PERMITS AND SHALL PERFORM ALL WORK TO CONFORM WITH APPLICABLE BUILDING CODES.
12. ALL PAVEMENT CROSSINGS ARE TO BE BORED.