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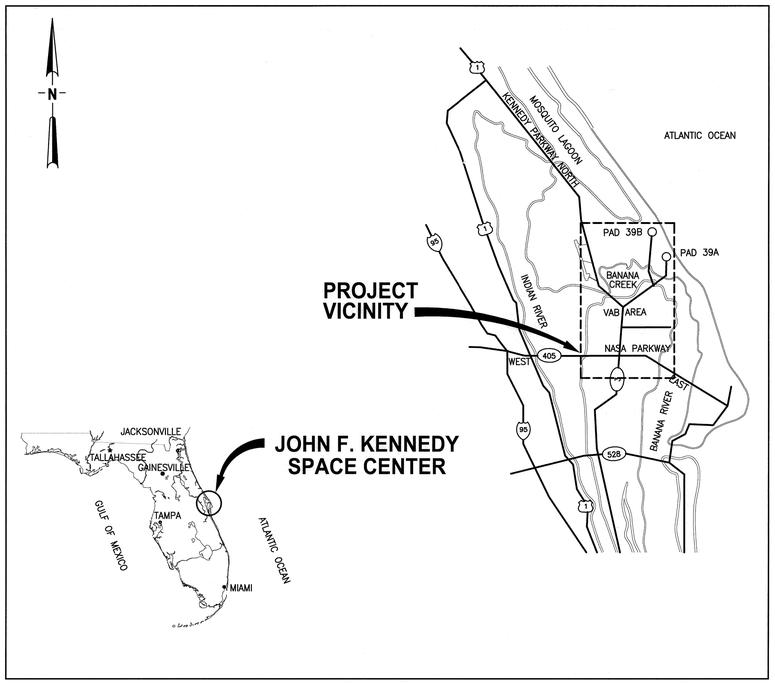
SPECIFICATION REFERENCE NO 79K38702

REVITALIZE KSC WATER SYSTEMS

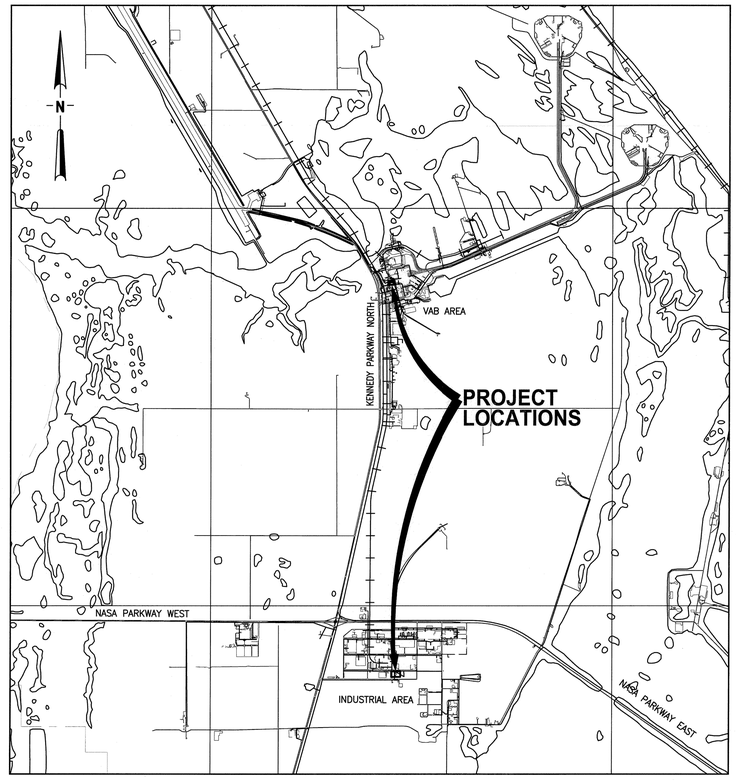
DESIGN PACKAGE 2



SITE VICINITY MAP

NTS

NASA JOHN F. KENNEDY SPACE CENTER



SITE LOCATION MAP

NTS

NASA KSC Export Control Office (ECO)
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(Stamp Revision: (05-19-2009)

SYM	ZONE	DESCRIPTION	DATE	APPROVED
A		REVISED SHEETS 1, 2, AND 10. ADDED SHEET 5A	12/21/10	

REVISIONS

THIS DRAWING CREATED IN AUTOCAD 2008 FILE FORMAT AND WILL BE REVISED ONLY ON AN AUTOCAD SYSTEM. FILE: 14000184-DP2-V01.DWG

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CHECKED M. CLARK	9/3/10
DESIGNED R. BEST	9/3/10
SUBMITTED	1-4-11
APPROVED	DATE

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
JOHN F. KENNEDY SPACE CENTER, NASA
KENNEDY SPACE CENTER, FLORIDA

REVITALIZE KSC WATER SYSTEMS, DESIGN PACKAGE 2

COVER SHEET

SIZE	DWG. NO.	REV
F	79K38701	A
	PROJ. NO. 98814	SHEET 1 OF 10

V1

SC FORM 1-11 (3/76)(C/G 3/94)

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SPECIFICATION REFERENCE NO 79K38702

ABBREVIATIONS

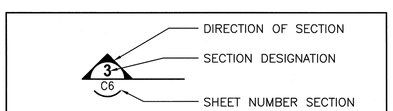
ACM	ASBESTOS CONTAINING MATERIAL
C&D	CONSTRUCTION AND DEMOLITION
CFR	CODE OF FEDERAL REGULATIONS
CO	CONTRACTING OFFICER
EL	ELEVATION
EPA	ENVIRONMENTAL PROTECTION AGENCY
EST	ELEVATED STORAGE TANK
FDEP	FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
FDOT	FLORIDA DEPARTMENT OF TRANSPORTATION
HWL	HIGH WATER LEVEL
KICS	KENNEDY INTEGRATED COMMUNICATIONS SERVICES
KSC	KENNEDY SPACE CENTER
LWL	LOW WATER LEVEL
N/A	NOT APPLICABLE
NASA	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
OSHA	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
PCB	POLYCHLORINATED BIPHENYL
PPE	PERSONAL PROTECTIVE EQUIPMENT
PPM	PARTS PER MILLION
PRL	POTENTIAL RELEASE LOCATION
PWQ	PROCESS WASTE QUESTIONNAIRE
RCRA	RESOURCE CONSERVATION AND RECOVERY ACT
SWMU	SOLID WASTE MANAGEMENT UNIT
TCLP	TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRP	TECHNICAL RESPONSE PACKET
TSCA	TOXIC SUBSTANCES CONTROL ACT
VAB	VEHICLE ASSEMBLY BUILDING

LEGEND

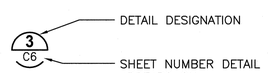
	DOUBLE LINE	SINGLE LINE	
DEMOLISH EXISTING			
LAYDOWN AREA			
COM — EXISTING COMMUNICATIONS LINE			GATE VALVE
E — EXISTING ELECTRIC LINE			CAP
W — EXISTING WATER LINE			CHECK VALVE
SF — STAKED SILT FENCE		N/A	ALTITUDE VALVE
RB — ROCK BAGS	N/A		CURB STOP
SAN — EXISTING SANITARY SEWER	N/A		GATE VALVE AND RESTRAINED PLUG
FUEL — EXISTING FUEL LINE	NV–01–12		TYPICAL VALVE IDENTIFICATION NUMBER
NG — EXISTING NATURAL GAS LINE			

DRAWING INDEX

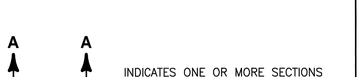
REV	INDEX	DWG. NO.	DESCRIPTION
GENERAL			
A	1	V1	COVER SHEET
A	2	V2	GENERAL NOTES, ABBREVIATIONS, DRAWING LEGEND AND DRAWING INDEX
	3	V3	KEY MAP
ENVIRONMENTAL HEALTH			
	4	EN1	SWMU\ PRL SITE KEY MAP
	5	EN2	ENVIRONMENTAL NOTES AND ASBESTOS SCHEDULE
A	5A	EN3	STORMWATER POLLUTION PREVENTION DETAILS
DEMOLITION			
	6	D1	INDUSTRIAL EST DEMOLITION PLAN
	7	D2	VAB EST DEMOLITION PLAN
	8	D3	EST DEMOLITION ELEVATION
	9	D4	INDUSTRIAL EST ELECTRICAL AND I&C DEMOLITION PLAN
A	10	D5	VAB EST ELECTRICAL AND I&C DEMOLITION PLAN



SECTION DESIGNATION



DETAIL/SECTION DESIGNATION



SECTION DESIGNATION

GENERAL NOTES

1. THE CONTRACT DRAWINGS CONTAIN INFORMATION FROM EXISTING RECORD DRAWINGS RETRIEVED FROM PRIOR DESIGN PACKAGES. MODIFICATIONS TO THE DRAWINGS HAVE BEEN MADE FOR THE PURPOSE OF IDENTIFYING CONTRACT SCOPE. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING THAT ACTUAL CONDITIONS MATCH THE CONTRACT DRAWINGS. CONTRACTOR SHALL HAVE SOLE RESPONSIBILITY FOR REVIEWING AND CHECKING ALL INFORMATION CONTAINED IN THE CONTRACT DRAWINGS AND FOR ANY INTERPRETATION OR CONCLUSION DRAWN FROM THE INFORMATION PROVIDED.
2. THE CONTRACTOR SHALL COMPLY WITH THE U.S. EXPORT CONTROL LAWS. THE FACILITIES AND ASSOCIATED EQUIPMENT SHALL BE DECONSTRUCTED AND DISPOSED OF IN ACCORDANCE WITH DEMILITARIZATION CODE D – TOTAL DESTRUCTION OF ITEMS AND COMPONENTS SO AS TO PRECLUDE RESTORATION OR REPAIR TO A USABLE CONDITION BY MELTING, CUTTING, CRUSHING, BREAKING, ETC.
3. THE CONTRACTOR SHALL NOTE THAT ALL OVERHEAD AND UNDERGROUND UTILITIES MAY NOT BE SHOWN ON THE DRAWINGS. THE CONTRACTOR SHALL FIELD LOCATE AND INCLUDE CONSIDERATION OF SUCH UTILITIES PRIOR TO BIDDING AND PRIOR TO EXECUTION OF WORK. THE INFORMATION SHOWN ON THE DRAWINGS AS TO THE LOCATION OF EXISTING UTILITIES HAS BEEN PREPARED FROM THE MOST RELIABLE DATA AVAILABLE; HOWEVER, THIS INFORMATION IS NOT GUARANTEED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE LOCATION OF ALL EXISTING UTILITIES, AT NO ADDITIONAL COST TO THE GOVERNMENT. THE CONTRACTOR SHALL ASSIST THE UTILITY PERSONNEL TO DETERMINE SAID LOCATIONS AND THE LOCATIONS OF RECENT ADDITIONS TO THE SYSTEMS SHOWN.
4. DIMENSIONS MAY BE SHOWN ON THE DRAWINGS, HOWEVER, THE CONTRACTOR IS SOLELY RESPONSIBLE FOR VERIFYING DIMENSIONS AND DETERMINING ALL MATERIAL QUANTITIES.
5. CONTRACTOR SHALL NOT COMMENCE DEMOLITION WORK UNTIL ALL UTILITIES HAVE BEEN VERIFIED TO BE DISCONNECTED AND ISOLATED. IF NECESSARY, THE CONTRACTOR SHALL NOTIFY THE CO 60 DAYS PRIOR TO ANY DEMOLITION TO ALLOW FOR ICS CONTRACTORS TO RELOCATE COMMUNICATION LINES AND EQUIPMENT. THE CONTRACTOR SHALL NOT DEMOLISH ANY ELECTRICAL EQUIPMENT UNTIL IT HAS BEEN DE–ENERGIZED COMPLETELY, DISCONNECTED AT ALL POSSIBLE SOURCES, AND VERIFIED DE–ENERGIZED AT THE EQUIPMENT WITH THE PROPER ELECTRICAL TEST EQUIPMENT.
6. THE CONTRACTOR SHALL VERIFY THAT ALL REQUIRED CLEARANCES CAN BE MET. IF ANY CANNOT BE MET THE CONTRACTOR SHALL NOTIFY THE CO 14 DAYS PRIOR TO SCHEDULED DEMOLITION.
7. THE CONTRACTOR SHALL NOTIFY THE CO IN WRITING AT LEAST 14 DAYS IN ADVANCE OF DISCONNECTING ANY ACTIVE SYSTEM. THE CONTRACTOR SHALL PROVIDE THE CO A SCHEDULE AND SEQUENCE PLAN PRIOR TO COMMENCING WORK.
8. THE CONTRACTOR SHALL PROVIDE CONTROL AND MAINTENANCE OF TRAFFIC IN ACCORDANCE WITH FDOT INDEX 600 THROUGH 665.
9. FDOT INDICES SHALL REFER TO THE "2010 FLORIDA DEPARTMENT OF TRANSPORTATION ROADWAY AND TRAFFIC DESIGN STANDARDS." FDOT SPECIFICATIONS SHALL REFER TO THE "2010 FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION."
10. AFTER AWARD OF CONTRACT, THE OWNERSHIP OF THE ESTS AND ASSOCIATED ITEMS TO BE DEMOLISHED WILL BE TRANSFERRED FROM NASA TO THE DEMOLITION CONTRACTOR, WITH THE EXCEPTION OF THOSE ITEMS THAT ARE TO BE TURNED OVER TO THE GOVERNMENT. ITEMS TO BE TURNED OVER TO THE GOVERNMENT ARE IDENTIFIED IN THE FRONT END SECTIONS OF THE SPECIFICATIONS.
11. ITEMS IDENTIFIED TO BE SALVAGED AND RETURNED TO THE GOVERNMENT SHALL BE REMOVED CAREFULLY IN ORDER TO MAINTAIN THEIR CONDITION FOR FUTURE USE.
12. REFER TO SPECIFICATION 01 57 20.00 10 FOR SOLID WASTE AND LANDFILL REQUIREMENTS AND CONTRACT CLAUSE "LANDFILL OPERATIONS/SOLID WASTE REMOVAL" FOR KSC LANDFILL REQUIREMENTS.
13. THE CONTRACTOR SHALL RECORD C&D WASTE MATERIALS ON KSC FORM 7–648 NS (02/07) AND SUBMIT FORM ON A MONTHLY BASIS TO THE CO AND NASA ENVIRONMENTAL AND SHALL KEEP A LOG ON SITE PER DIRECTION FROM CO.
14. CONTRACTOR SHALL REMOVE HAZARDOUS MATERIALS OR ITEMS THAT MAY CONTAIN THOSE MATERIALS BEFORE PROCEEDING WITH DEMOLITION OPERATIONS. DISPOSAL SHALL BE IN ACCORDANCE WITH THE SPECIFICATION SECTION 01 57 20.00 10.
15. CONTRACTOR SHALL NOT CLOSE OR OBSTRUCT STREETS, WALKS, OR OTHER ADJACENT OCCUPIED OR IN–USE FACILITIES WITHOUT PERMISSION FROM THE CO. PROVIDE ALTERNATE ROUTES AROUND CLOSED OR OBSTRUCTED TRAFFIC WAYS.
16. CONTRACTOR SHALL CONDUCT DEMOLITION OPERATIONS AND DEBRIS REMOVAL WITH MINIMAL INTERFERENCE TO ROADS, STREETS, WALKS, AND OTHER ADJACENT OCCUPIED AND IN–USE FACILITIES.
17. CONTRACTOR SHALL ERECT AND MAINTAIN A MINIMUM 4–FOOT TALL CONSTRUCTION BARRIER AT EACH SITE TO LIMIT ACCESS TO THE CONSTRUCTION SITE. THE CONSTRUCTION FENCE SHALL BE INSTALLED PRIOR TO ANY DEMOLITION ACTIVITIES.
18. FACILITIES AND IMPROVEMENTS TO REMAIN SHALL BE CLEANED OF DUST, DIRT, AND DEBRIS CAUSED BY DEMOLITION OPERATIONS. THE CONTRACTOR SHALL RETURN ADJACENT AREAS TO PRE–CONSTRUCTION CONDITIONS.
19. CONTRACTOR IS NOT TO DEMOLISH CONCRETE FOUNDATIONS, PADS, VAULTS, ETC.
20. CONTRACTOR SHALL REMOVE STRUCTURAL FRAMING MEMBERS AND LOWER THEM TO GROUND BY METHODS SUITABLE TO AVOID FREE FALL AND TO PREVENT GROUND IMPACT.
21. REMOVAL, DEMOLITION, STORAGE, HAULING AND DISPOSAL SHALL COMPLY WITH REGULATIONS BY FDEP, RCRA, TSCA, OSHA, EPA, FDOT AND ANY OTHER AUTHORITY HAVING JURISDICTION.
22. CONTRACTOR IS REQUIRED TO POLICE WORK AREAS DAILY FOR LOOSE TRASH AND DEBRIS. WIND BLOWN DEBRIS MUST BE COLLECTED DAILY AND PROPERLY DISPOSED TO PREVENT MIGRATION OF DEBRIS/TRASH OFFSITE.
23. BACKFILL AND COMPACTION WORK SHALL PROVIDE THE MINIMUM SLOPE TO DRAIN PROPERLY. PONDING OF WATER SHALL BE AVOIDED.
24. IF DURING DEMOLITION THE CONTRACTOR ENCOUNTERS MATERIALS OR SUBSTANCES NOT IDENTIFIED IN CONTRACT DOCUMENTS, THE CONTRACTOR SHALL IMMEDIATELY REPORT THESE MATERIALS TO THE CO AND PROCEED AS DIRECTED BY THE CO.
25. THE CONTRACTOR SHALL UTILIZE WHATEVER MEANS NECESSARY TO PROTECT THE EXISTING EQUIPMENT, SURFACES AND STRUCTURES INSIDE AND OUTSIDE THE LIMITS OF DEMOLITION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING TO PRE–DEMOLITION CONDITIONS ANY DAMAGE TO EXISTING EQUIPMENT, SURFACES, UTILITIES, STRUCTURES, AND OTHER FEATURES CAUSED BY DEMOLITION ACTIVITIES, AT NO ADDITIONAL COST TO THE GOVERNMENT.
26. THE CONTRACTOR SHALL BE RESPONSIBLE FOR BRACING, SHORING, OR PROVIDING OTHER MEANS NECESSARY TO PROTECT AND SUPPORT EXISTING UTILITIES AND STRUCTURES DURING CONSTRUCTION/DEMOLITION.
27. ALL EXISTING STORMWATER DRAINAGE PATTERNS AND CHANNELS SHALL BE MAINTAINED. THE CONTRACTOR SHALL NOTIFY THE CO IF THE WORK APPEARS TO INTERRUPT AN EXISTING STORMWATER DRAINAGE PATTERN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING ANY EROSION, SEDIMENT TRANSPORT, DISTURBED FOUNDATIONS AND IMPACT TO STRUCTURES, AND ANY OTHER DAMAGE TO CHANNELS AND DRAINAGE PATTERNS CAUSED DURING DEMOLITION.
28. CONTRACTOR SHALL PREVENT THE DISCHARGE OF SEDIMENT INTO DRAINAGE DITCHES OR TRENCHES DUE TO DEMOLITION OPERATIONS. APPROVED EROSION CONTROL DEVICES SHALL BE INSTALLED TO PREVENT DISCHARGE OF SEDIMENT INTO A DRY OR WET WATERCOURSE. EROSION CONTROL SHALL CONSIST OF MULCH AND NETTING, FILTER CLOTH BARRIERS OR OTHER EROSION CONTROL METHODS APPROVED BY THE CO.
29. ALL CONSTRUCTION AND DEMOLITION DEBRIS SHALL BE REMOVED FROM THE SITE AND DISPOSED BY THE CONTRACTOR IN ACCORDANCE WITH FEDERAL AND STATE REGULATIONS AND NASA KSC POLICY.
30. CONTRACTOR SHALL FILL ALL DISTURBED AREAS TO EXISTING ELEVATIONS, GRADE THE SITE LEVEL, AND SOD ALL DISTURBED AREAS.
31. NO STAGING, DISMANTLING, OR CUTTING WILL BE PERMITTED OUTSIDE THE LIMITS OF DEMOLITION AT THE ESTS AND PERMITTED LAYDOWN AREAS.
32. ALL DEMOLITION DEBRIS SHALL BE REMOVED FROM THE EST SITE PERIMETER WITHIN 3 DAYS OF DEMOLITION.
33. THE CONTRACTOR SHALL HAND EXCAVATE ALL EXISTING UNDERGROUND DISCONNECTION POINTS TO DETERMINE THE LOCATION, MATERIAL, SIZE, JOINT LOCATION AND TYPE.
34. COORDINATE WITH CO FOR POWER SYSTEM ISOLATION AND DEMOLITION. REQUIREMENTS FOR "HOT" PERMITS AND FIRE WATCHES ARE LOCATED IN THE CONTRACT DOCUMENTS SAFETY PLAN.
35. THE CONTRACTOR SHALL CONDUCT SEISMIC MONITORING, DISPLACEMENT MONITORING AND OTHER MEASURES DEEMED NECESSARY TO MONITOR AND DOCUMENT THE CRITERIA TO ENSURE THAT THE SURROUNDING FACILITIES SUFFERED NO ADVERSE IMPACTS OR STRUCTURAL DAMAGE DURING DEMOLITION ACTIVITIES. FOR MORE INFORMATION REFER TO SPECIFICATION SECTION 02 41 00.
36. THE CONTRACTOR SHALL CUT, CAP AND PERMANENTLY PATCH FLUSH WITH THE FOUNDATION SURFACE ANY ABANDONED PROTRUSIONS NOT SPECIFICALLY INDICATED IN THE PLANS, INCLUDING BUT NOT LIMITED TO CONDUIT, ANCHOR BOLTS, FOUNDATION PENETRATIONS ETC. PERMANENT PATCHES SHALL BE IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
37. THIS PROJECT HAS THE POTENTIAL TO IMPACT THREATENED, ENDANGERED, AND PROTECTED SPECIES SUCH AS BUT NOT LIMITED TO THE LEAST TURN, BLACK SKIMMER, AND GOPHER TORTOISE. THE CONTRACTOR SHALL CONTACT THE CO AND NASA ENVIRONMENTAL 14 DAYS PRIOR TO DEMOLITION IN ORDER FOR THE GOVERNMENT TO PERFORM SURVEY AND RELOCATION ACTIVITIES OF THE IDENTIFIED SPECIES.
38. SEE CONTRACT CLAUSES CONCERNING WHAT IS AND WHAT IS NOT ALLOWED TO BE DISPOSED OF IN THE KSC CLASS III LANDFILL. THERE ARE NO FEES ASSOCIATED WITH DISPOSAL AT THE KSC CLASS III LANDFILL.
39. SOME ITEMS SHOWN IN THESE CONTRACT DRAWINGS MAY BE REMOVED BY OTHERS PRIOR TO CONTRACT AWARD, CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING PRESENCE OF EQUIPMENT SHOWN.
40. ALL CONCRETE OR ASPHALT REMOVAL NOT SPECIFICALLY IDENTIFIED ON THE DRAWINGS SHALL BE RESTORED TO THEIR ORIGINAL CONDITION IN ACCORDANCE WITH THE ASSOCIATED RESTORATION DETAILS, UNLESS SPECIFIED OTHERWISE. ALL GRASS OR SOD REMOVAL NOT SPECIFICALLY IDENTIFIED ON THE DRAWINGS SHALL BE RESTORED TO THEIR ORIGINAL CONDITION IN ACCORDANCE WITH SPECIFICATION SECTION 32 92 23, SODDING, UNLESS SPECIFIED OTHERWISE.
41. THE CONTRACTOR IS RESPONSIBLE FOR CALCULATING THE VOLUME OF SOIL DISPLACED WITHIN THE SWMU AREAS. THE CONTRACTOR SHALL PROVIDE THE CO WITH THE APPROXIMATE VOLUME OF CONTAMINATED SOIL SO THAT PROPER ARRANGEMENTS CAN BE MADE FOR ITS REMOVAL AND DISPOSITION.
42. CONSTRUCT STORMWATER POLLUTION PREVENTION ITEMS ADJACENT TO ALL SOIL DISTURBANCES ACCORDING TO DETAILS ON EN3. PLACE ON DOWN SLOPE TO INTERCEPT SEDIMENT AND PROTECT NEARBY WATER BODIES AND UNDISTURBED AREAS. MAINTAIN STORMWATER POLLUTION PREVENTION ITEMS IN GOOD WORKING ORDER UNTIL ADEQUATE COVER MATERIALS ARE ESTABLISHED. IF A REPAIR IS NECESSARY, IT WILL BE INITIATED WITHIN 24 HOURS OF REPORT. BUILT UP SEDIMENT WILL BE REMOVED FROM STAKED SILT FENCE AND STAKED TURBIDITY BARRIERS WHEN IT HAS REACHED ONE–HALF THE HEIGHT OF THE SILT FENCE OR BARRIER.

SYM	ZONE	DESCRIPTION	DATE	APPROVED
A		GENERAL REVISIONS – ENTIRE SHEET	12/21/10	

REVISIONS

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SIGNATURES	DATE
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CHECKED M. CLARK	9/3/10
DESIGNED R. BEST	9/3/10
SUBMITTED	12/12/10
APPROVED	12/21/10

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
JOHN F. KENNEDY SPACE CENTER, NASA
KENNEDY SPACE CENTER, FLORIDA

REVITALIZE KSC WATER SYSTEMS, DESIGN PACKAGE 2

GENERAL NOTES, ABBREVIATIONS, DRAWING LEGEND AND DRAWING INDEX

V2

SIZE	DWG. NO.	REV
F	79K38701	A

PROJ. NO. 98814 | SHEET 2

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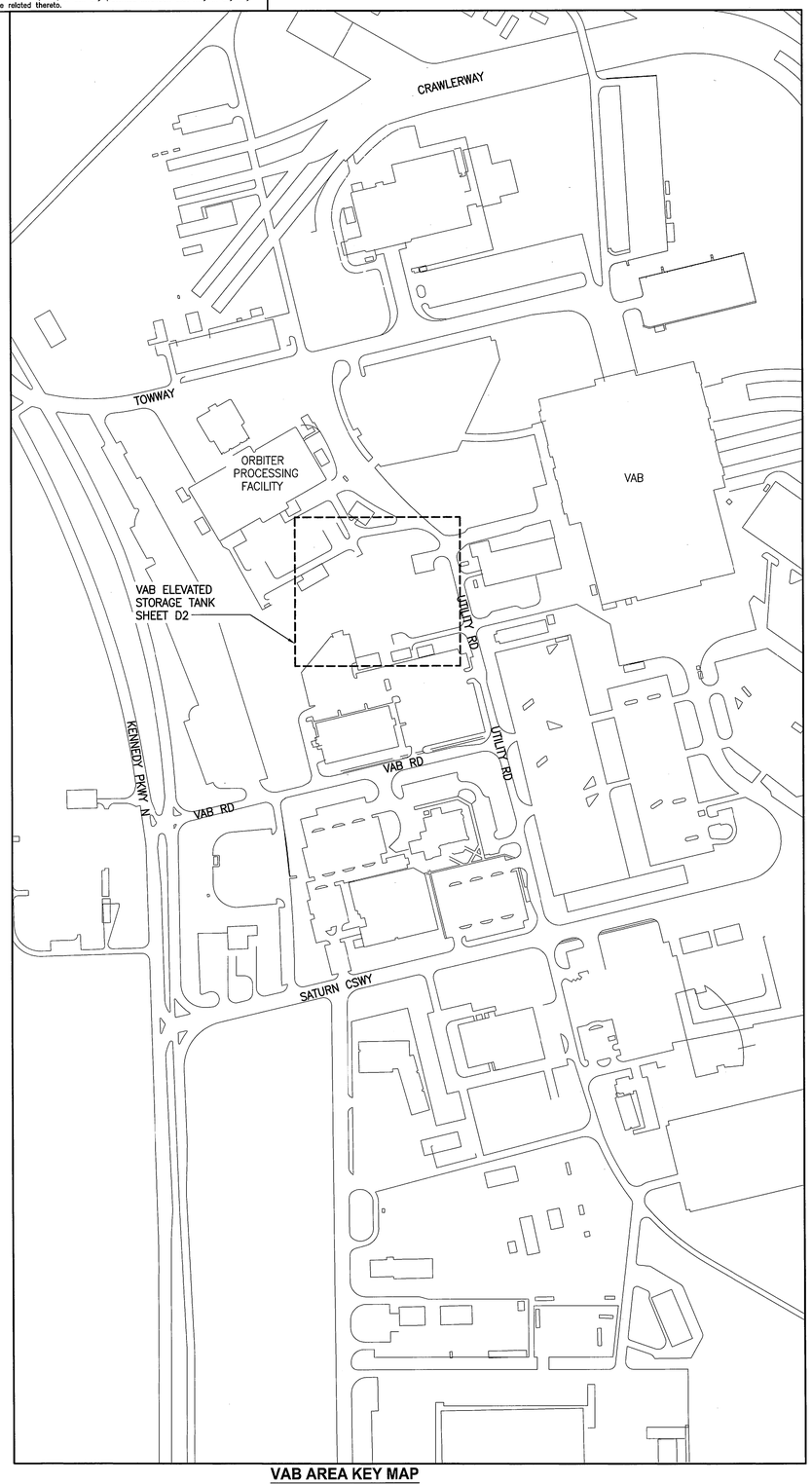
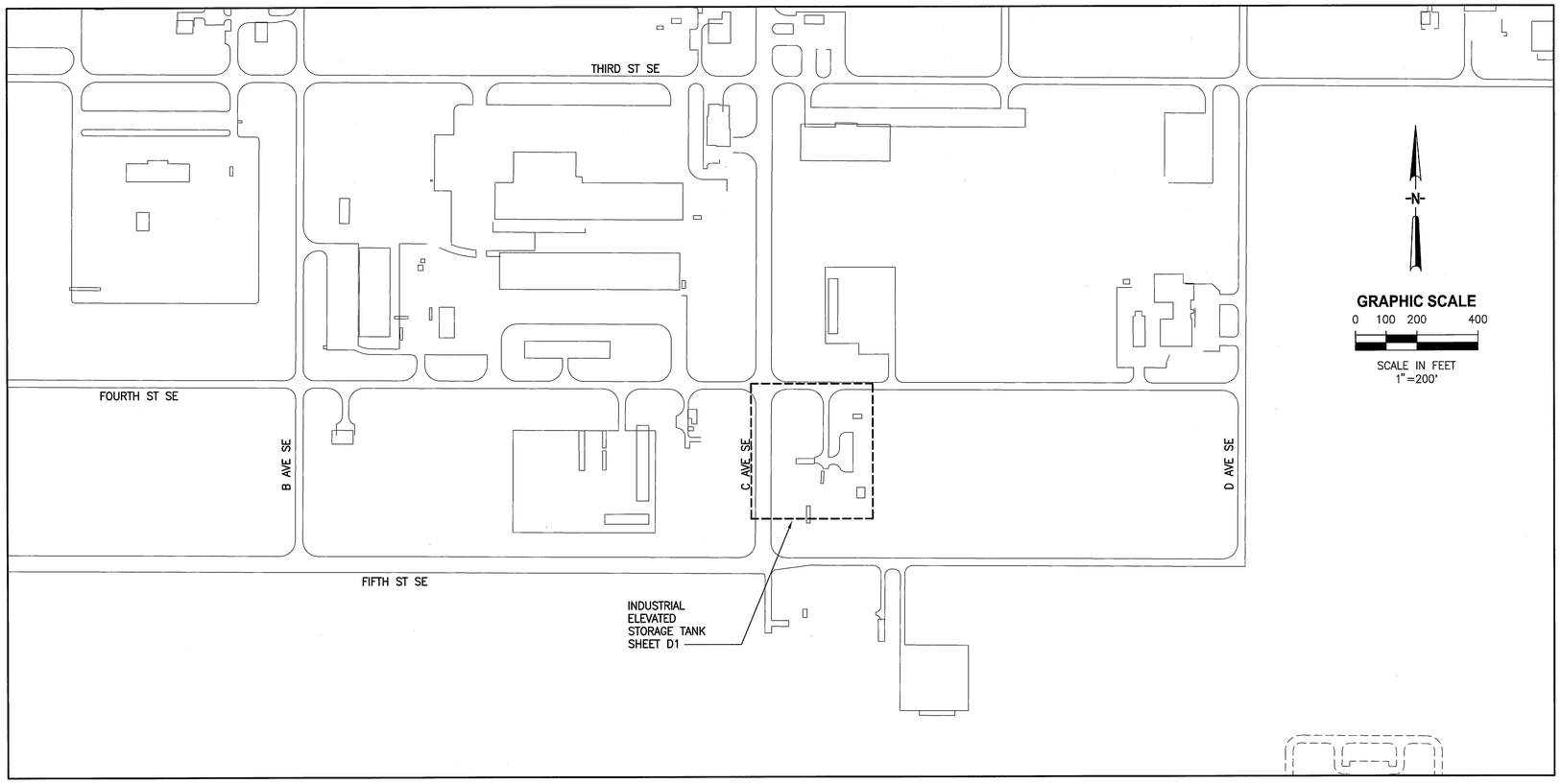
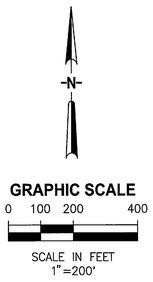


VAB AREA KEY MAP
SCALE: 1"=200'



INDUSTRIAL AREA KEY MAP
SCALE: 1"=200'



SYM	ZONE	DESCRIPTION	DATE	APPROVED

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SIGNATURES	DATE
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CHECKED M. CLARK	9/3/10
DESIGNED R. BEST	9/3/10
SUBMITTED	9/2/10

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
JOHN F. KENNEDY SPACE CENTER, NASA
KENNEDY SPACE CENTER, FLORIDA

REVITALIZE KSC WATER SYSTEMS, DESIGN PACKAGE 2

KEY MAP

APPROVED	DATE	SIZE	DWG. NO.	REV
	9/2/10	F	79K38701	V3
TITLE			PROJ. NO. 98814	SHEET 3

KSC FORM 1-11 (3/76)(C/G 3/94)

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SPECIFICATION REFERENCE NO 79K38702

LEGEND

SWMU SITE

PRL SITE

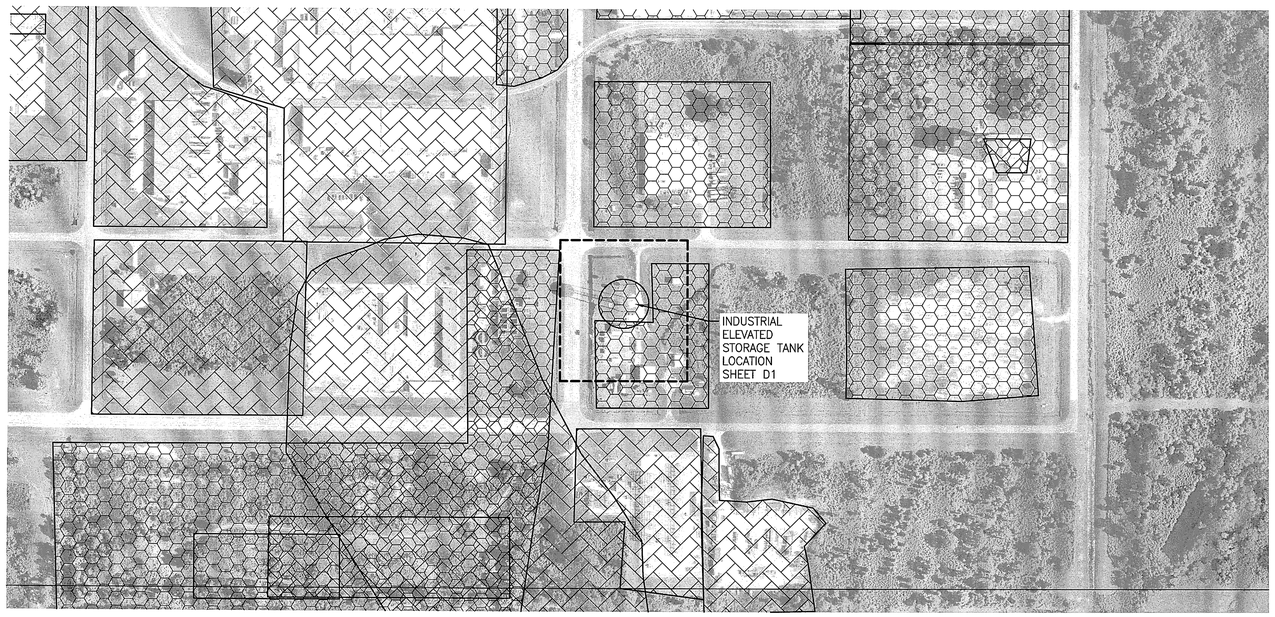
VAB AREA
1"=200'

GRAPHIC SCALE
0 100 200 400
SCALE IN FEET
1"=200'

GENERAL NOTE:

1. THE SYSTEMS BEING MODIFIED MAY BE LOCATED WITHIN VARIOUS SWMU OR PRL. THESE SITES CONTAIN GROUNDWATER CONTAMINATION, SOIL CONTAMINATION, OR BOTH. SOIL EXCAVATED FROM THE LAND SURFACE TO ANY DEPTH SHALL BE RETURNED TO THE AREA OF EXCAVATION FROM WHICH IT WAS REMOVED. SOIL EXCAVATED FROM THE SITE THAT CANNOT BE RETURNED TO THE AREA FROM WHICH IT WAS REMOVED SHALL BE COLLECTED BY THE CONTRACTOR AND PLACED IN AN APPROPRIATE CONTAINER IN ACCORDANCE WITH THE REGULATIONS. THE CONTRACTOR SHALL CORRDINATE WITH THE CO AND NASA ENVIRONMENTAL TO HAVE THE EXCAVATED SOIL SAMPLED TO DETERMINE IF IT IS A HAZARDOUS WASTE. THE SOIL SHALL BE DISPOSED OF IN ACCORDANCE WITH THE PWQ/TRP PROCESS. CONTRACTOR SHALL WEAR PROPER PPE WHEN WORKING IN SOIL AND GROUNDWATER. THE CONTRACTOR SHALL USE BEST MANAGEMENT PRACTICES TO PREVENT EROSION AND REMOVAL OF SOIL FROM SITE.

2. DEWATERING EFFLUENT SHALL BE DISCHARGED TO GRADE UPLAND OF THE EXCAVATED AREA AND ALLOWED TO PERCOLATE BACK INTO THE PERVIOUS GROUND SURFACE. DEWATERING SHALL NOT EXCEED 50 GPM WITHIN A SWMU OR PRL, UNLESS AUTHORIZED BY THE CO AND NASA ENVIRONMENTAL. BEST MANAGEMENT PRACTICES SHALL BE USED TO PREVENT DEWATERING EFFLUENT FROM ENTERING SURFACE WATERS. THE CONTRACTOR SHALL SUBMIT A DEWATERING PLAN TO THE CO AND NASA ENVIRONMENTAL 14 DAYS PRIOR TO COMMENCEMENT OF DEWATERING WORK WITHIN A SWMU OR PRL BOUNDARY FOR DEWATERING PLAN APPROVAL.



INDUSTRIAL AREA
1"=200'

-N-

GRAPHIC SCALE
0 100 200 400
SCALE IN FEET
1"=200'

SYM	ZONE	DESCRIPTION	DATE	APPROVED

REVISIONS

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SIGNATURES	DATE
DRAWN J. ALLEN	9/3/10
CHECKED K. RIVERA	9/3/10
DESIGNED J. DU QUESNE	9/3/10
SUBMITTED	9/2/10
APPROVED	DATE 9/2/10

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
JOHN F. KENNEDY SPACE CENTER, NASA
KENNEDY SPACE CENTER, FLORIDA

REVITALIZE KSC WATER SYSTEMS, DESIGN PACKAGE 2

SWMU\ PRL SITE KEY MAP

EN1

SIZE F | DWG. NO. 79K38701 | REV

TITLE | PROJ. NO. 98814 | SHEET 4

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SPECIFICATION REFERENCE NO 79K38702

SWMU CONTAMINANTS				
NUMBER	SWMU #	STATUS	CONTAMINANT(S)	LOCATION
7	024C	ACTIVE	VOLATILE ORGANIC COMPOUNDS	GROUNDWATER & SOIL
31	101	ACTIVE	VINYL CHLORIDE	GROUNDWATER & SOIL

PRL CONTAMINANTS				
NUMBER	PRL #	STATUS	CONTAMINANT(S)	LOCATION
1	83	NO FURTHER ACTION		
2	137	NO FURTHER ACTION		

ASBESTOS SCHEDULE

ASBESTOS SCHEDULE

ROOM NUMBER	MATERIAL TYPE	ASBESTOS	FRIABLE	CONDITION	QUANTITY	UNIT	LOCATION	COMMENTS	REPORT BY
M6-896A	MISCELLANEOUS MATERIAL (PIPE MASTIC)	NO	NO	DAMAGED	380	SF	PIPING	BLACK MASTIC ON PIPES.	JONES EDMUNDS
M6-896A	PIPE GASKET	NO	NO	GOOD	12	EA	JOINTS	FIBROUS GASKET AT PIPE JOINTS	JONES EDMUNDS
M6-896A	MISCELLANEOUS MATERIAL (SEALANT)	NO	NO	DAMAGED	100	SF	JOINTS	GRAY, WHITE; SEALANT AT JOINTS AND CONNECTIONS	JONES EDMUNDS
K6-944	MISCELLANEOUS MATERIALS (MASTIC)	NO	NO	DAMAGED	4	SF	JOINTS	SILVER MASTIC ON TOP OF THE NUTS AT THE PIPE JOINTS.	JONES EDMUNDS
K6-944	MISCELLANEOUS MATERIAL (PIPE MASTIC)	NO	NO	DAMAGED	510	SF	PIPING	BLACK MASTIC ON PIPES.	JONES EDMUNDS
K6-944	PIPE GASKET	NO	NO	GOOD	26	EA	JOINTS	FIBROUS GASKET AT PIPE JOINTS	JONES EDMUNDS
K6-944	MISCELLANEOUS MATERIAL (MANHOLE LID SEAL)	NO	NO	DAMAGED	2	SF	VALVE VAULT TOP	BLACK SEAL AT MANHOLE LID	JONES EDMUNDS
K6-944	MISCELLANEOUS MATERIAL (SEALANT)	NO	NO	DAMAGED	100	SF	JOINTS	GRAY SEALANT AT JOINTS AND CONNECTIONS	JONES EDMUNDS

PAINT SCHEDULES

PCB PAINT SCHEDULE

FACILITY	LOCATION	DESCRIPTION	CONCENTRATION (PPM)
VAB ELEVATED STORAGE TANK (K6-994)	VALVE VAULT PIPING	BLACK / ORANGE	1.6
INDUSTRIAL ELEVATED STORAGE TANK (M6-896A)	VALVE VAULT PIPING	BLACK	U
VAB ELEVATED STORAGE TANK (M6-896A)	BOLLARDS	YELLOW	1.3
INDUSTRIAL ELEVATED STORAGE TANK (K6-994)	ELEVATED STORAGE TANK AND STEEL STRUCTURE	WHITE/CREAM/ GRAY/YELLOW	U
VAB ELEVATED STORAGE TANK (M6-896A)	ELEVATED STORAGE TANK AND STEEL STRUCTURE	LIGHTGRAY/ DARK GRAY	U
INDUSTRIAL ELEVATED STORAGE TANK (K6-994)	SEAL AT JOINTS AND CONNECTIONS	GRAY	U
VAB ELEVATED STORAGE TANK (M6-896A)	SEAL AT JOINTS AND CONNECTIONS	GRAY/WHITE	U
40 CFR 761 REGULATORY LEVEL FOR PCB BULK PRODUCT WASTE			>= to 50 PPM

RCRA PAINT SCHEDULE

FACILITY	LOCATION	DESCRIPTION	METAL CONCENTRATION IN mg/kg							
			As	Ba	Cd	Cr	Pb	Hg	Se	Ag
VAB ELEVATED STORAGE TANK (K6-944)	VALVE VAULT PIPING	BLACK / ORANGE	U	916	34.4	96	3670	8.45	U	U
INDUSTRIAL ELEVATED STORAGE TANK (M6-896A)	VALVE VAULT PIPING	BLACK	U	29	2.87	43.7	35.9	0.023	U	U
INDUSTRIAL ELEVATED STORAGE TANK (M6-896A)	BOLLARDS	YELLOW	U	2170	U	23.8	858	0.0045	U	U
INDUSTRIAL ELEVATED STORAGE TANK (M6-896A)	ELEVATED STORAGE TANK AND STEEL STRUCTURE	GRAY	U	108	15.4	U	59	0.0379	U	U
VAB ELEVATED STORAGE TANK (K6-994)	ELEVATED STORAGE TANK AND STEEL STRUCTURE	WHITE/CREAM/ GRAY/YELLOW	U	126	19.7	U	76.9	0.0408	U	U

U = ANALYTE INCLUDED IN THE ANALYSIS, BUT NOT DETECTED.

TCLP PAINT SCHEDULE

FACILITY	LOCATION	DESCRIPTION	METAL CONCENTRATION IN mg/L							
			As	Ba	Cd	Cr	Pb	Hg	Se	Ag
INDUSTRIAL ELEVATED STORAGE TANK (M6-896A)	VALVE VAULT PIPING	BLACK	0.066	0.24	0.02	U	0.042	U	U	U
VAB ELEVATED STORAGE TANK (K6-944)	VALVE VAULT PIPING	BLACK / ORANGE	0.032	2.27	0.284	0.01	2.78	U	U	U
40 CFR 261.24 REGULATORY LEVEL			5	100	1	5	5	0.2	1	5

ENVIRONMENTAL NOTES

1. PAINTED METALS SHALL NOT BE RECYCLED UNLESS PROVEN NOT TO BE PCB BULK PRODUCT WASTE IN ACCORDANCE WITH 40 CFR 761. NON-PAINTED METALS SHALL BE RECYCLED IN ACCORDANCE WITH CONTRACT CLAUSE "RECYCLING AND SALVAGING MATERIALS." CONTRACTOR SHALL INFORM THE CO AND NASA ENVIRONMENTAL OF THE ESTIMATED WEIGHT OF METAL RECYCLED.
2. CONTRACTOR SHALL TAKE ACTIONS TO ASSURE PROTECTION OF WORKERS AND ADJACENT UNPROTECTED PERSONNEL TO HAZARDS DURING DEMOLITION IN ACCORDANCE WITH APPLICABLE OSHA REQUIREMENTS.
3. HEAVY METALS AND/OR PCB'S IN PAINT AND MATERIALS HAVE BEEN IDENTIFIED IN AND ON THE FACILITIES TO BE DEMOLISHED. THE CONTRACTOR SHALL ABIDE BY OSHA STANDARD 29 CFR 1926.62 AND 29 CFR 1910.1127 FOR WORKER PROTECTION DURING DEMOLITION AND CONSTRUCTION. RESPIRATORY PROTECTION SHALL BE WORN IN ACCORDANCE WITH OSHA STANDARD 29 CFR 1910.134. PAINTED MATERIALS SHALL BE DISPOSED OF IN ACCORDANCE WITH THE SPECIAL CONDITIONS OF THE CONTRACT DOCUMENTS, SPECIFICATIONS AND ALL APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS. THE TEST RESULTS INDICATE THAT CONCENTRATIONS ARE LOW ENOUGH IN RELATION TO OVERALL WEIGHT OF THE STRUCTURE THAT THE GOVERNMENT WILL ALLOW THE DISPOSAL OF THE STRUCTURES AT THE GOVERNMENT OWNED KSC CLASS III LANDFILL SUBJECT TO THE REQUIREMENTS OF THE CONTRACT DOCUMENTS. RECYCLING IS PERMITTED AND SHALL BE IN ACCORDANCE WITH APPLICABLE STATE AND FEDERAL REQUIREMENTS. REFER TO PAINT SCHEDULES.
4. PAINTED MATERIALS WITH PCB CONCENTRATIONS GREATER THAN 50 PPM SHALL BE HANDLED AND DISPOSED OF IN ACCORDANCE WITH SPECIFICATION 02 84 33 AND CONTRACT CLAUSES "HAZARDOUS WASTE" AND "PCB MANAGEMENT."
5. THE CONTRACTOR SHALL USE BEST MANAGEMENT PRACTICE CONTROL MEASURES IN ACCORDANCE WITH THE SPECIFICATIONS TO PREVENT THE RELEASE OF TOXIC PAINT CHIPS TO THE ENVIRONMENT.
6. ANY UNIVERSAL WASTE ENCOUNTERED IN AND ON THE AREAS TO BE DEMOLISHED SHALL BE COLLECTED AND DISPOSED OF IN ACCORDANCE WITH FEDERAL REGULATION 40 CFR 273 AND ANY APPLICABLE STATE, LOCAL, AND KSC REGULATIONS.

ASBESTOS ABATEMENT NOTES

1. ASBESTOS INFORMATION IS BASED ON AN ASBESTOS SURVEY REPORT PROVIDED BY JONES EDMUNDS & ASSOCIATES, INC. (JONES EDMUNDS). NON-DESTRUCTIVE TESTING WAS USED IN COLLECTING INFORMATION PROVIDED IN THIS REPORT. ALL SURVEY INFORMATION SHOULD BE VERIFIED AS ACCURATE AND COMPLETE AT THE TIME FACILITY AND/OR SYSTEM MODIFICATIONS ACTUALLY OCCUR. A COMPLETE COPY OF THE ASBESTOS SURVEY BY FACILITIES CAN BE OBTAINED FROM THE CO.
2. ANY ADDITIONAL ACM ENCOUNTERED, NOT REPORTED IN THE ASBESTOS SURVEY, SHALL BE REPORTED TO THE CO IMMEDIATELY FOLLOWING DISCOVERY. NO ADDITIONAL ACM ABATEMENT SHALL BE PERFORMED WITHOUT WRITTEN AUTHORIZATION FROM THE CO.
3. CONTRACTOR SHALL SUBMIT TO FDEP A "NOTICE OF ASBESTOS RENOVATION OR DEMOLITION" FORM (WWW.DEP.STATE.FL.US/AIR/FORMS.HTML. DEP FORM 62-257.900(1)) 10 DAYS PRIOR TO DEMOLITION OF ANY LOAD SUPPORTING STRUCTURAL MEMBER OF A FACILITY REGARDLESS OF SIZE. THE CO MUST BE COPIED ON ALL REPORTS SUBMITTED TO FDEP. THIS FORM SHALL BE SUBMITTED FOR ASBESTOS DISTURBANCE AS WELL AS DEMOLITION OF ANY LOAD SUPPORTING STRUCTURAL MEMBER OF A FACILITY REGARDLESS OF FACILITY SIZE.
4. UNLESS NOTED OTHERWISE, PRIOR TO DEMOLITION ABATE AND DISPOSE OF ALL ACM IN ACCORDANCE WITH KSC REQUIREMENTS AND 40 CFR 61. REFER TO THE ASBESTOS SCHEDULE FOR LOCATIONS OF ACM.

SYM	ZONE	DESCRIPTION	DATE	APPROVED
		REVISIONS		

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KENNEDY SPACE CENTER, FLORIDA

REVITALIZE KSC WATER SYSTEMS, DESIGN PACKAGE 2

ENVIRONMENTAL NOTES AND ASBESTOS SCHEDULE

SIZE F | DWG. NO. 79K38701 | REV

TITLE | PROJ. NO. 98814 | SHEET 5

EN2

KSC FORM 1-11 (3/76)(C/G 3/94)

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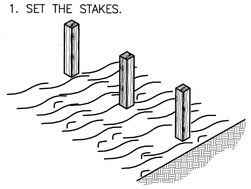
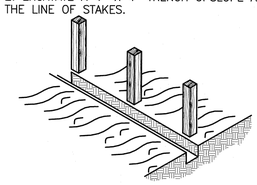
SPECIFICATION REFERENCE NO 79K38702

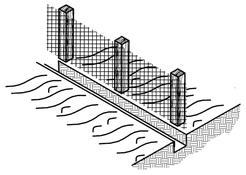
1. SET THE STAKES.



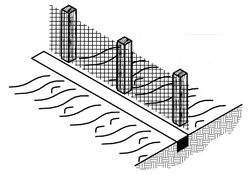
2. EXCAVATE A 4" X 4" TRENCH UPSLOPE ALONG THE LINE OF STAKES.



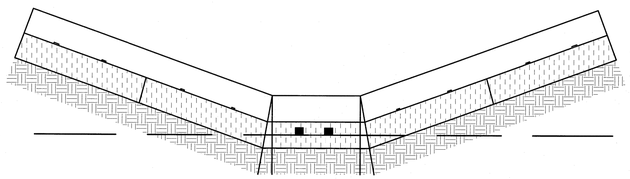
3. STAPLE SILT FENCE TO STAKES AND EXTEND IT INTO THE TRENCH.



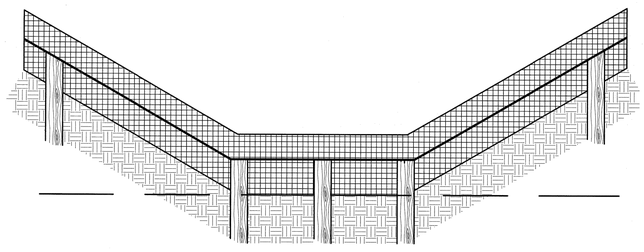
4. BACKFILL AND COMPACT THE EXCAVATED SOIL.



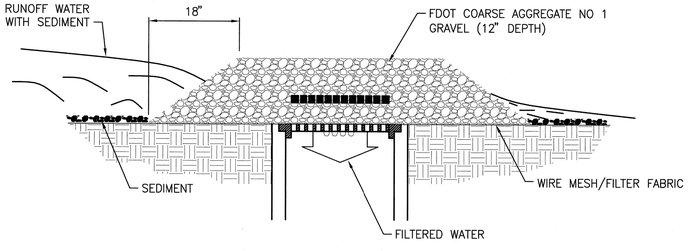
CONSTRUCTION OF A SILT FENCE
NTS



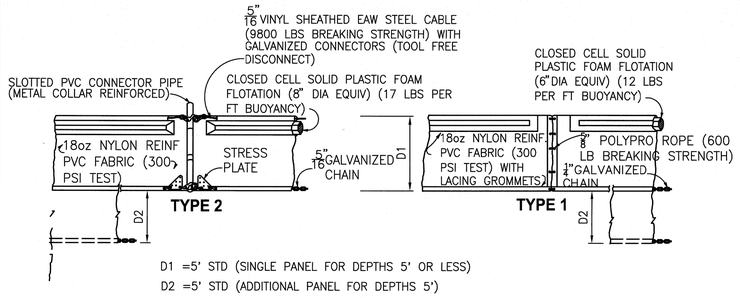
PROPER PLACEMENT OF A STRAW BALE IN A DRAINAGE WAY
NTS



PROPER PLACEMENT OF A SILT FENCE IN A DRAINAGE WAY
NTS



GRAVEL AND WIRE MESH DROP INLET SEDIMENT FILTER
NTS



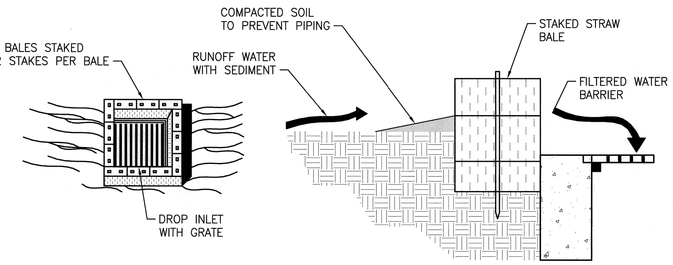
D1 =5' STD (SINGLE PANEL FOR DEPTHS 5' OR LESS)

D2 =5' STD (ADDITIONAL PANEL FOR DEPTHS 5')

CURTAIN TO REACH BOTTOM UP TO DEPTHS OF 10 FEET. TWO (2) PANELS TO BE USED FOR DEPTHS GREATER THAN 10 FEET UNLESS SPECIAL DEPTH CURTAINS SPECIFICALLY CALL FOR IN THE PLANS OR AS DETERMINED BY THE ENGINEER.

NOTICE: COMPONENTS OF TYPES 1 AND 2 MAY BE SIMILAR OR IDENTICAL TO PROPRIETARY DESIGNS. ANY INFRINGEMENT ON THE PROPRIETARY RIGHTS OF THE DESIGNER SHALL BE THE SOLE RESPONSIBILITY OF THE USER. SUBSTITUTIONS FOR TYPES 1 AND 2 SHALL BE AS APPROVED BY THE ENGINEER.

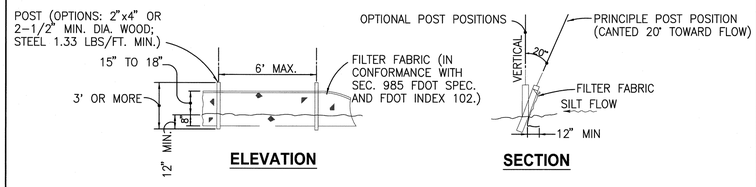
TYPICAL FLOATING TURBIDITY BARRIER
NTS

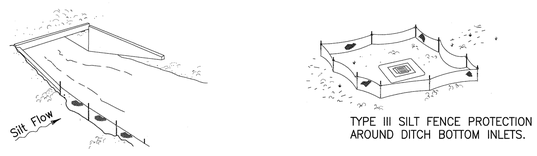


SPECIFIC APPLICATION

THIS METHOD OF INLET PROTECTION IS APPLICABLE WHERE THE INLET DRAINS A RELATIVELY FLAT AREA (SLOPES NO GREATER THAN 5%) WHERE SHEET OR OVERLAND FLOWS (NOT EXCEEDING 5.3 CFS) ARE TYPICAL. THE METHOD SHALL NOT APPLY TO INLETS RECEIVING CONCENTRATED FLOWS, SUCH AS IN STREET OR HIGHWAY MEDIANS.

STRAW BALE DROP INLET SEDIMENT FILTER
NTS



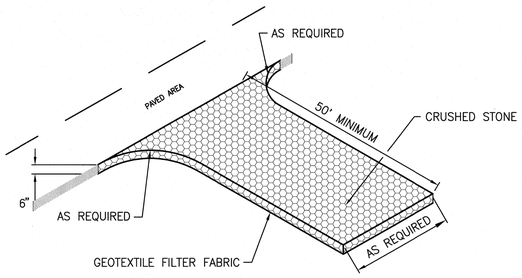


TYPE III SILT FENCE PROTECTION AROUND DITCH BOTTOM INLETS.

TYPE III SILT FENCE

NOTES:
1. DO NOT DEPLOY IN A MANNER THAT SILT FENCES WILL ACT AS A DAM ACROSS PERMANENT FLOWING WATERCOURSES. SILT FENCES ARE TO BE USED AT UPLAND LOCATIONS AND TURBIDITY BARRIERS USED AT PERMANENT BODIES OF WATER.
2. WHEN JOINING BUTT ENDS OF SILT FENCE FABRIC; JOIN FABRIC ENDS, WRAP AROUND A POST 360-DEGREES, AND SET POST.

FDOT INDEX NUMBER 102 SILT FENCE DETAIL
NTS



STABILIZED CONSTRUCTION ENTRANCE/EXIT
NTS

SYM	ZONE	DESCRIPTION	DATE	APPROVED
A		ADD ENTIRE SHEET	12/21/10	

REVISIONS

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SIGNATURES	DATE
DRAWN J. ALLEN	9/3/10
CHECKED M. CLARK	9/3/10
DESIGNED R. BEST	9/3/10
SUBMITTED	12/20/10
APPROVED	DATE 12/21/10

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REVITALIZE KSC WATER SYSTEMS, DESIGN PACKAGE 2

STORMWATER POLLUTION PREVENTION DETAILS

SIZE	DWG. NO.	REV
F	79K38701	A

EN3

TITLE | PROJ. NO. 98814 | SHEET 5A

KSC FORM 1-11 (3/76)(C/G 3/94)

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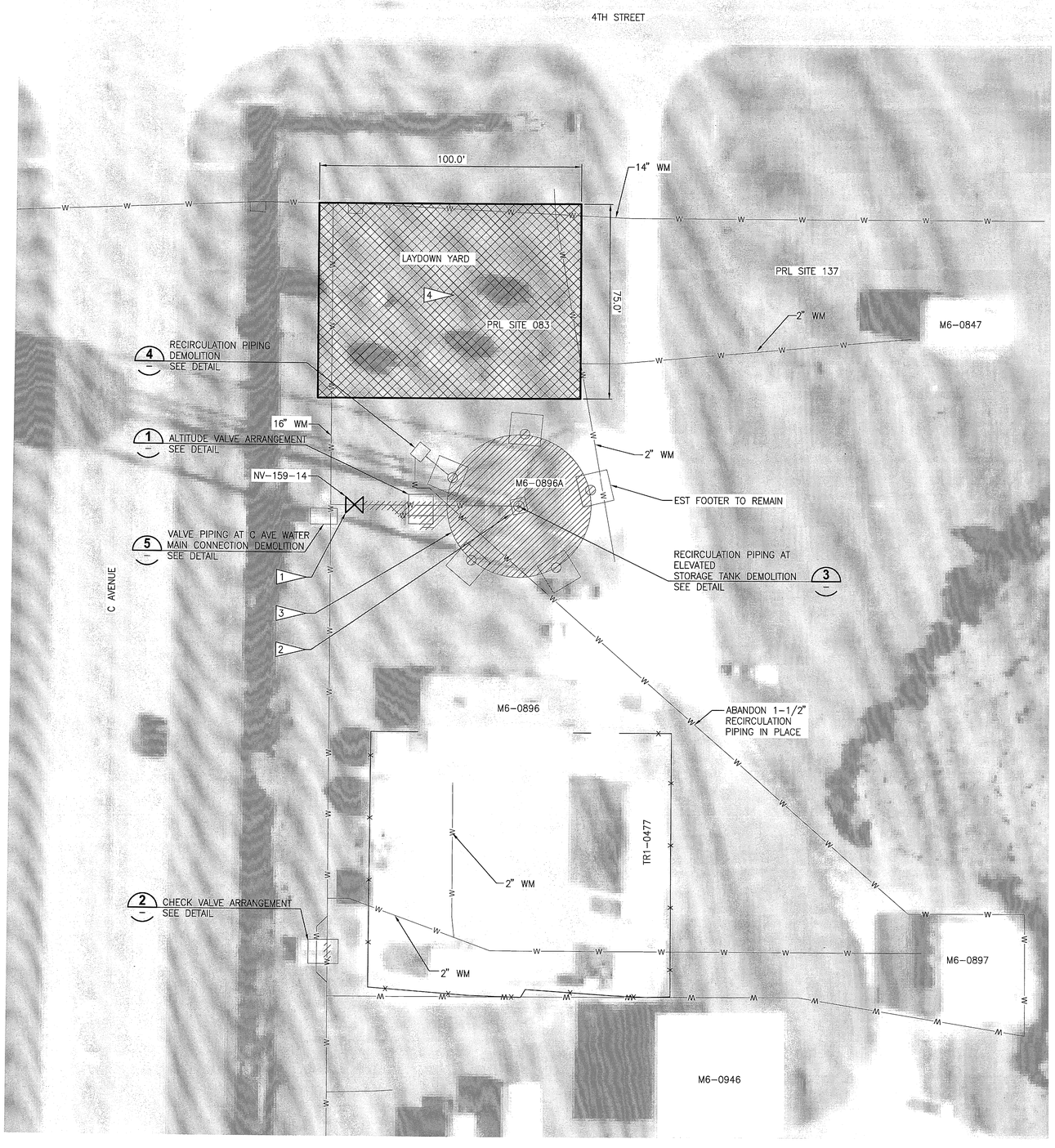
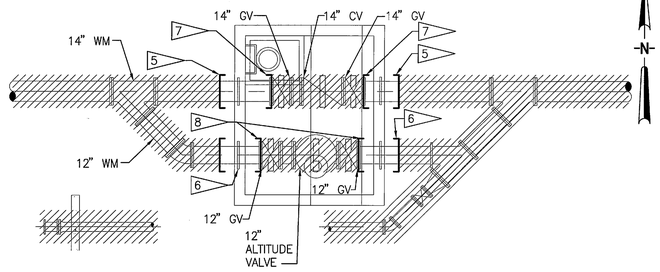


EXISTING CONDITIONS AND DEMOLITION PLAN
1" = 20'

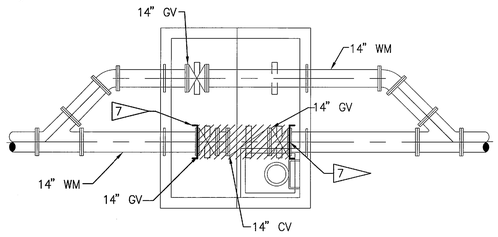
GRAPHIC SCALE
0 10 20 40
SCALE IN FEET
1"=20'



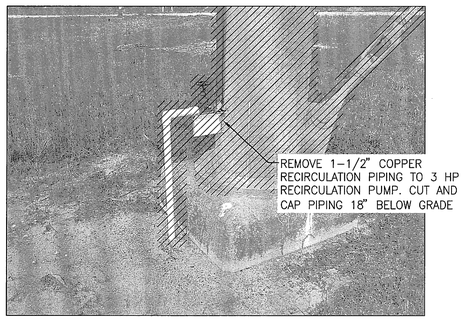
ALTITUDE VALVE ARRANGEMENT DETAIL 1
1/4" = 1'-0"

GRAPHIC SCALE
0 1 2 4 8
SCALE IN FEET
1/4" = 1'-0"

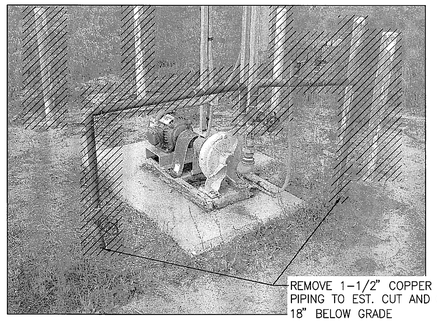
FLAG NOTES
1. CUT AND CAP EXISTING FEEDER LINE WITH A 14" GATE VALVE AND RESTRAINED PLUG. REMOVE FEEDER LINE FROM CAP TO TANK INLET/OUTLET. (1/D2)
2. PROTECT PERMANENT BENCHMARK LOCATED ON TOP OF STANDPIPE FOUNDATION SLAB DURING DEMOLITION ACTIVITIES. RESTORE PERMANENT BENCHMARK ACCORDING TO USGS REQUIREMENTS IF DAMAGED DURING DEMOLITION ACTIVITIES. CONTRACTOR IS RESPONSIBLE FOR ALL FEES AND FINES ASSOCIATED WITH DAMAGING AND REPLACING PERMANENT BENCHMARK.
3. DEMOLISH EST (M6-0896A) AND ASSOCIATED APPURTENANCES. REFER TO SHEET D3 FOR EXISTING ELEVATIONS
4. CONTRACTOR TO PROTECT PALM TREES. REMOVE, PROTECT, AND RELOCATE IF REQUIRED.
5. INSTALL 14" CAP
6. INSTALL 12" CAP
7. INSTALL 14" BF
8. INSTALL 12" BF



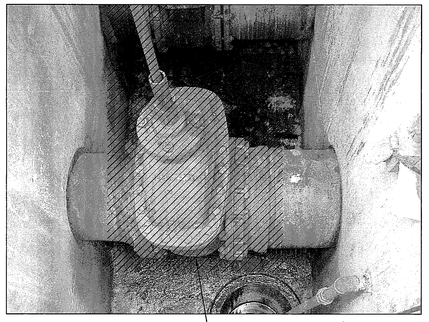
CHECK VALVE ARRANGEMENT DETAIL 2
1/4" = 1'-0"



RECIRCULATION PIPING AT ELEVATED STORAGE TANK DEMOLITION DETAIL 3
NTS



RECIRCULATION PIPING DEMOLITION DETAIL 4
NTS



VALVE PIPING AT C AVE WATER MAIN CONNECTION DEMOLITION DETAIL 5
NTS

SYM	ZONE	DESCRIPTION	DATE	APPROVED

REVISIONS

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SIGNATURES	DATE
DRAWN J. ALLEN	9/3/10
CHECKED M. CLARK	9/3/10
DESIGNED R. BEST	9/3/10
SUBMITTED	9/2/10
APPROVED	DATE 9/2/10

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
JOHN F. KENNEDY SPACE CENTER, NASA
KENNEDY SPACE CENTER, FLORIDA

REVITALIZE KSC WATER SYSTEMS, DESIGN PACKAGE 2

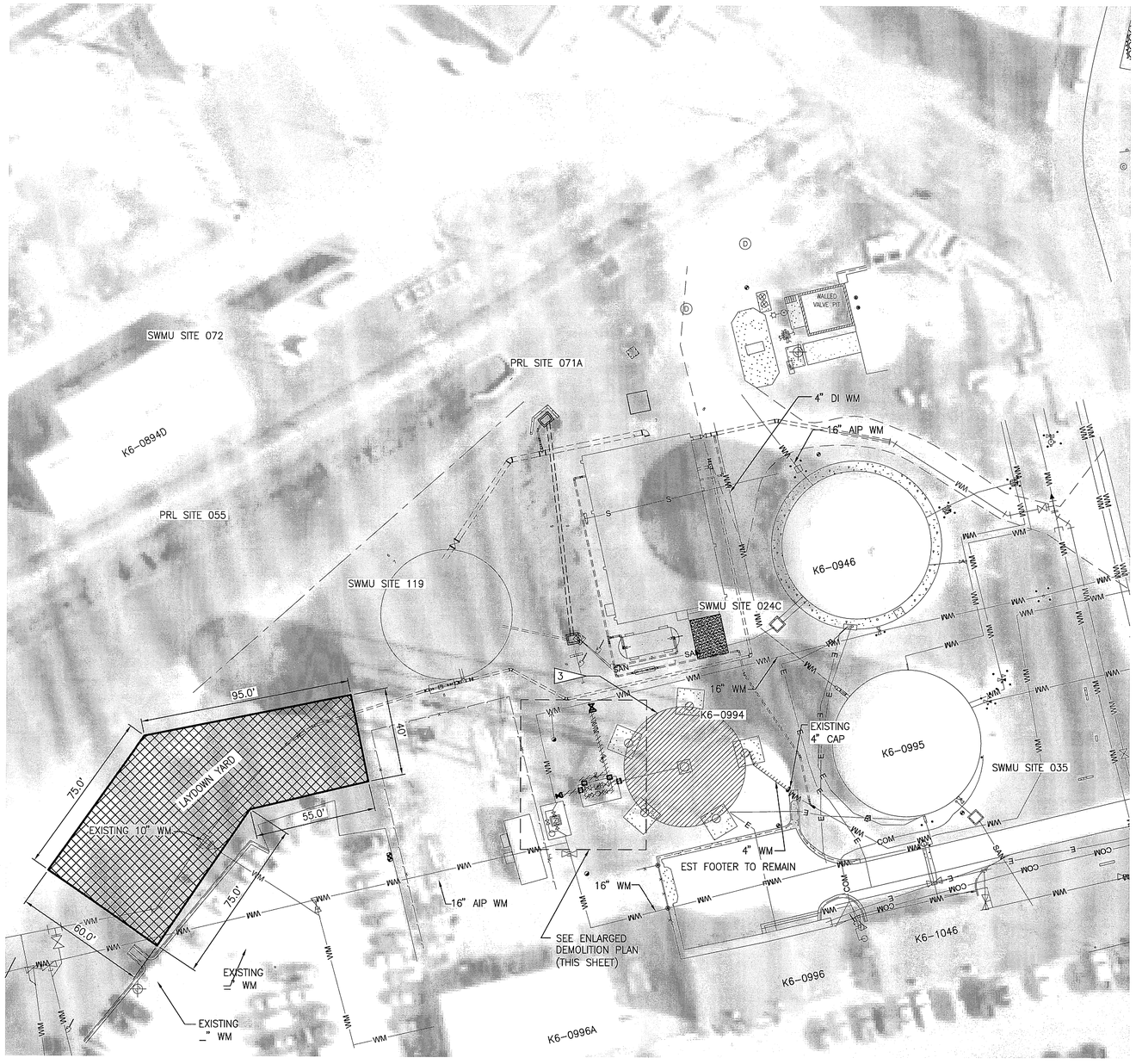
INDUSTRIAL EST DEMOLITION PLAN

SIZE F | DWG. NO. 79K38701 | REV

TITLE | PROJ. NO. 98814 | SHEET 6

D1

NOTICE: When Government drawings, specifications, or other data are used for any purpose other than in connection with a definitely related Government procurement operation, the United States Government thereby incurs no responsibility nor obligation whatsoever; and the fact that the Government may have formulated, furnished, or in any way supplied the said drawings, specifications or other data is not to be regarded by implication or otherwise as in any manner licensing the holder or any other person or corporation, or conveying any rights or permission to manufacture, use, or sell any patented invention that may in any way be related thereto.

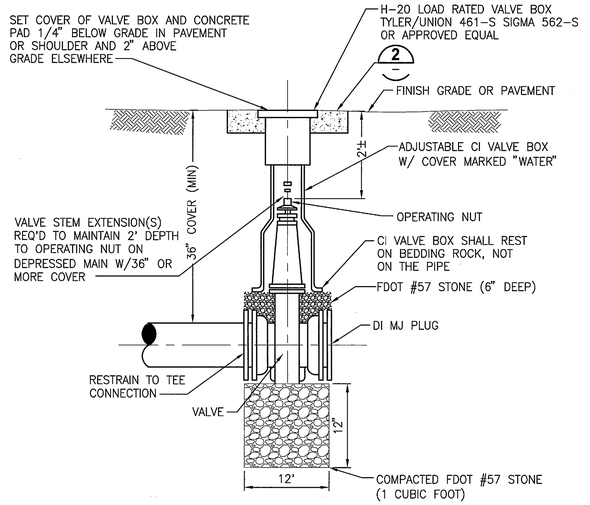


EXISTING CONDITIONS AND DEMOLITION PLAN
1" = 25'

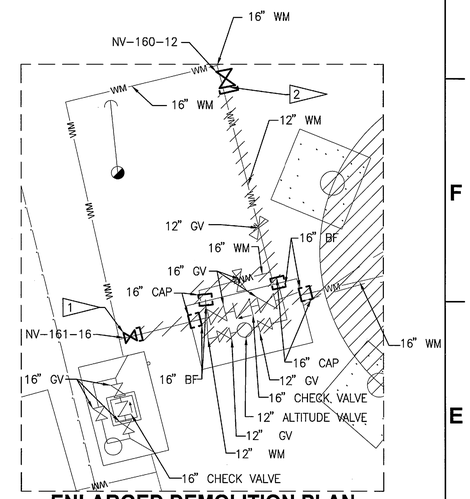
GRAPHIC SCALE
0 5 10 20
SCALE IN FEET
1"=10'

GRAPHIC SCALE
0 25 50
SCALE IN FEET
1"=25'

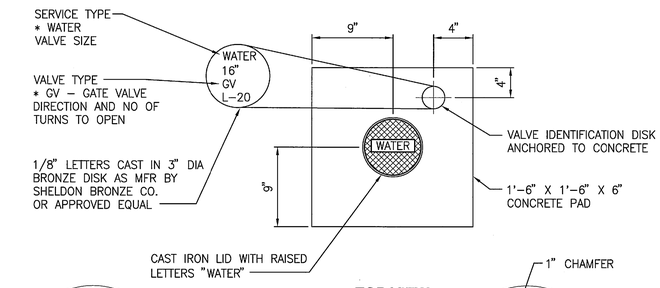
FLAG NOTES
1. CUT AND CAP EXISTING FEEDER LINE WITH A 16" GATE VALVE AND RESTRAINED PLUG. (1)
2. CUT AND CAP EXISTING FEEDER LINE WITH A 12" GATE VALVE AND RESTRAINED PLUG. (1)
3. DEMOLISH EST (K6-0994) AND ASSOCIATED APPURTENANCES. REFER TO SHEET D3 FOR EXISTING ELEVATIONS.



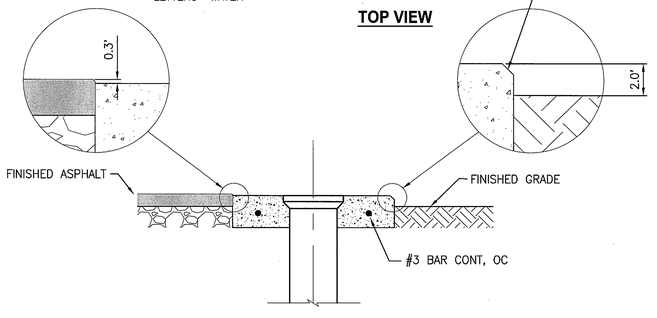
GATE VALVE, BOX, AND RESTRAINED PLUG DETAIL (1)
NTS



ENLARGED DEMOLITION PLAN
1" = 10'



TOP VIEW



VALVE COLLAR AND IDENTIFICATION DISK DETAIL (2)
NTS

SYM	ZONE	DESCRIPTION	DATE	APPROVED

REVISIONS

THIS DRAWING CREATED IN AUTOCAD 2008 FILE FORMAT AND WILL BE REVISED ONLY ON AN AUTOCAD SYSTEM. FILE: 14000184-DP2-D2.DWG

JONES EDMUNDS
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SIGNATURES	DATE
DRAWN J. ALLEN	9/3/10
CHECKED M. CLARK	9/3/10
DESIGNED R. BEST	9/3/10
SUBMITTED	9/2/10

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
JOHN F. KENNEDY SPACE CENTER, NASA
KENNEDY SPACE CENTER, FLORIDA

REVITALIZE KSC WATER SYSTEMS, DESIGN PACKAGE 2

VAB EST DEMOLITION PLAN

APPROVED	DATE	SIZE	DWG. NO.	REV
	9/2/10	F	79K38701	
TITLE		PROJ. NO. 98814		SHEET 7

D2

KSC FORM 1-11 (3/76)(C/G 3/94)

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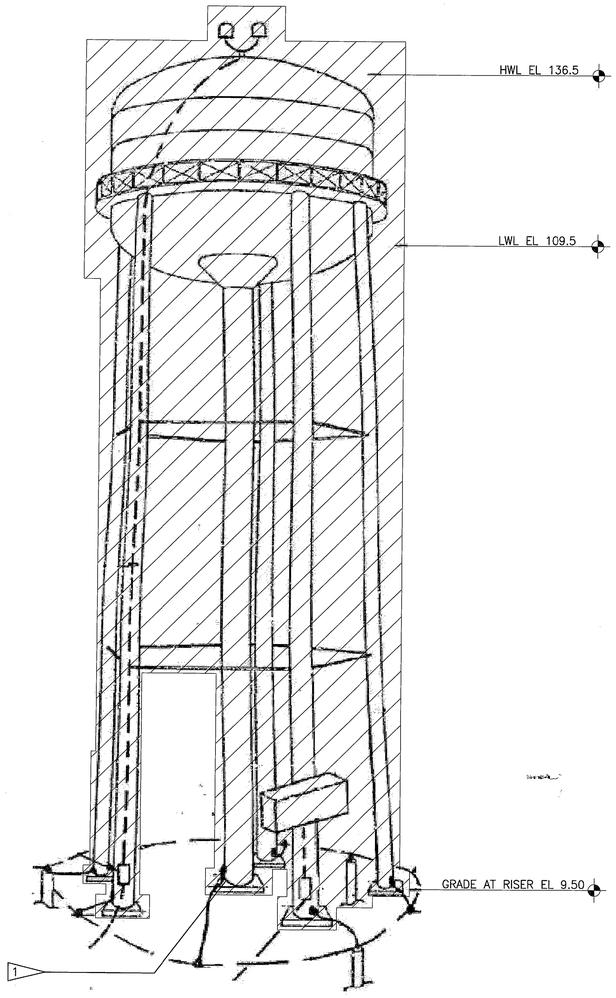
GENERAL NOTE:

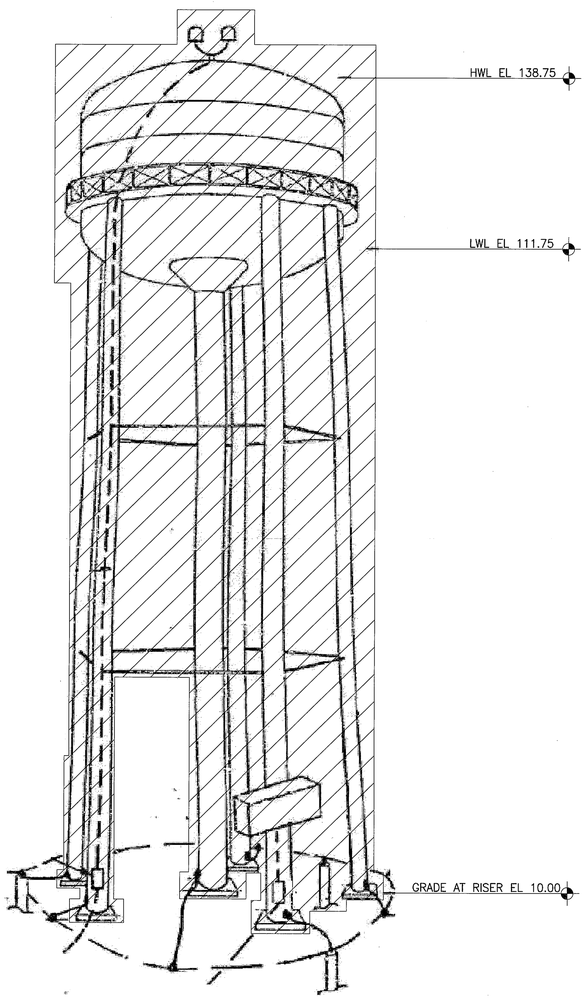
1. THESE FIGURES ARE FOR REFERENCE ONLY AND ARE USED TO INDICATE COMPONENTS TO BE REMOVED.
2. DRAINAGE OF THE TANKS PRIOR TO DEMOLITION IS TO BE COORDINATED WITH THE CO.

FLAG NOTES

1 REFER TO FLAG NOTE 2 ON D1.



INDUSTRIAL EST DEMOLITION ELEVATION
NTS



VAB EST DEMOLITION ELEVATION
NTS

SYM	ZONE	DESCRIPTION	DATE	APPROVED
REVISIONS				

THIS DRAWING CREATED IN AUTOCAD 2008 FILE FORMAT AND WILL BE REVISED ONLY ON AN AUTOCAD SYSTEM. FILE: 14000184-DP2-D3.DWG

JONES EDMUNDS
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SIGNATURES	DATE
DRAWN J. ALLEN	9/3/10
CHECKED M. CLARK	9/3/10
DESIGNED R. BEST	9/3/10
SUBMITTED	9/2/10
APPROVED	DATE 9/2/10

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KENNEDY SPACE CENTER, FLORIDA

REVITALIZE KSC WATER SYSTEMS, DESIGN PACKAGE 2

EST DEMOLITION ELEVATION

SIZE	DWG. NO.	REV
F	79K38701	
TITLE	PROJ. NO. 98814	SHEET 8

D3

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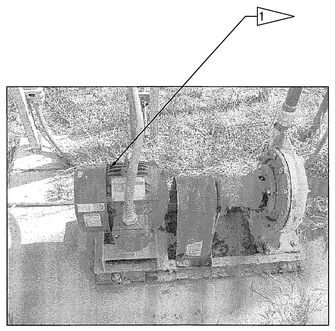
SPECIFICATION REFERENCE NO 79K38702

GENERAL NOTES:

1. THE INTENT OF THIS DRAWING IS TO SHOW MAJOR ELECTRICAL, INSTRUMENTATION, AND CONTROL COMPONENTS THAT NEED TO BE REMOVED. THIS DRAWING DOES NOT PURPORT TO SHOW ALL ITEMS TO BE REMOVED OR DEMOLISHED AS PART OF THE DEMOLITON CONTRACT.
2. REFER TO DRAWING D1 DEMOLITON PLAN DRAWING.
3. ALL CONDUCTORS SHALL BE REMOVED BACK TO THEIR SOURCE PANEL.
4. REMOVE ALL CONDUITS TO 2 FEET BELOW FINISHED GRADE AND CAP OFF.

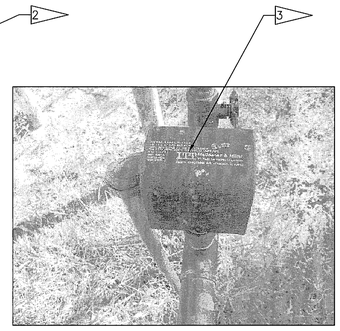
FLAG NOTES:

1. RECIRCULATION PUMP, LOCATED ADJACENT TO EST, TO BE REMOVED AND DISPOSED OF.
2. RECIRCULATION PUMP DISCONNECT, LOCATED UNDER EST, TO BE REMOVED AND DISPOSED OF.
3. RECIRCULATION PUMP FLOW SWITCH, LOCATED ADJACENT TO EST, TO BE REMOVED AND DISPOSED OF.
4. RECIRCULATION PUMP STARTER, LOCATED IN COMPRESSOR BUILDING, TO BE REMOVED AND DISPOSED OF.
5. SUMP PUMP AND DISCONNECT, LOCATED IN VALVE VAULT, TO BE REMOVED AND DISPOSED OF.
6. PRESSURE INDICATING PANEL, LOCATED ADJACENT TO VALVE VAULT, TO BE REMOVED AND DISPOSED OF.
7. ABANDONED PRESSURE TRANSMITTER, LOCATED IN VALVE VAULT, TO BE REMOVED AND DISPOSED OF.
8. CATHODIC PROTECTION PANEL, LOCATED AT BASE OF EST, TO BE REMOVED AND DISPOSED OF.
9. ALARM PANEL, LOCATED AT BASE OF EST, TO BE REMOVED AND DISPOSED OF.
10. TWO PRESSURE TRANSMITTERS, LOCATED IN COMPRESSOR BUILDING, TO BE REMOVED AND TURNED OVER TO CO. REMOVE ABOVE GROUND PRESSURE TRANSMITTER SENSOR LINES TO 18" BELOW GRADE AND CAP.



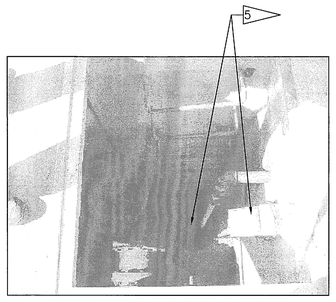
RECIRCULATION PUMP

RECIRCULATION PUMP DISCONNECT SWITCH

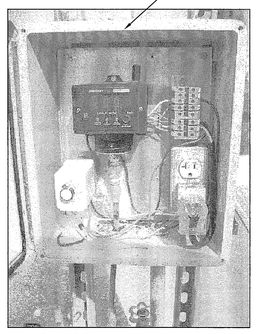


RECIRCULATION PUMP FLOW SWITCH

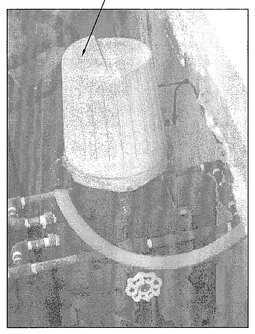
RECIRCULATION PUMP MOTOR STARTER



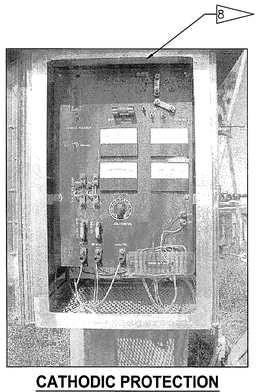
SUMP PUMP AND DISCONNECT



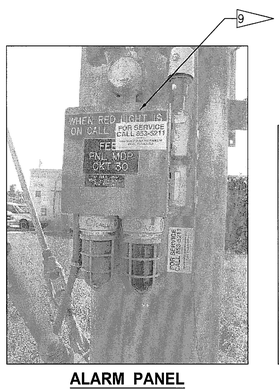
PRESSURE INDICATING CONTROL PANEL



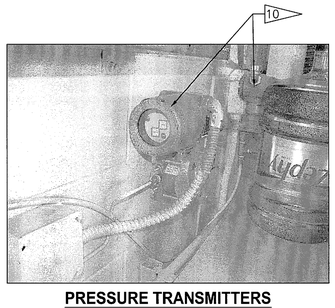
ABANDONED PRESSURE TRANSMITTER



CATHODIC PROTECTION PANEL



ALARM PANEL



PRESSURE TRANSMITTERS IN COMPRESSOR BUILDING

DEMOLITION PHOTOS

NTS

SYM	ZONE	DESCRIPTION	DATE	APPROVED

REVISIONS

THIS DRAWING CREATED IN AUTOCAD 2008 FILE FORMAT AND WILL BE REVISED ONLY ON AN AUTOCAD SYSTEM. FILE: 14000184-DP2-D4.DWG

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SIGNATURES	DATE
DRAWN K GANSKOP	9/3/10
CHECKED M KOROS	9/3/10
DESIGNED K GANSKOP	9/3/10
SUBMITTED	9/1/10
APPROVED	DATE 9/2/10

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
JOHN F. KENNEDY SPACE CENTER, NASA
KENNEDY SPACE CENTER, FLORIDA

REVITALIZE KSC WATER SYSTEMS, DESIGN PACKAGE 2

INDUSTRIAL EST ELECTRICAL AND I&C DEMOLITION PLAN

SIZE F | DWG. NO. 79K38701 | REV

TITLE | PROJ. NO. 98814 | SHEET 9

D4

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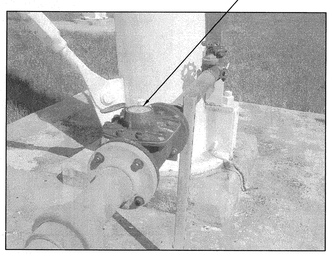
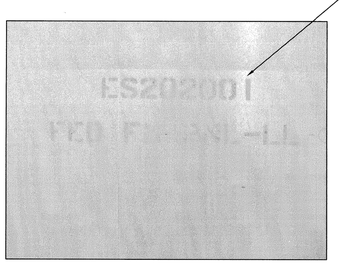
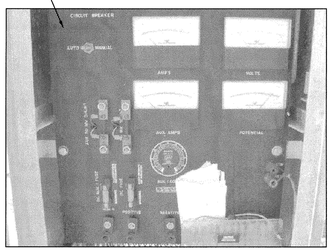
SPECIFICATION REFERENCE NO 79K38702



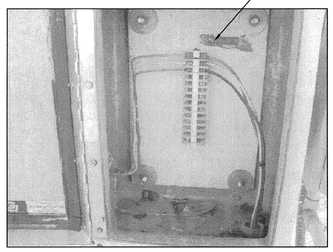
FLOW METER



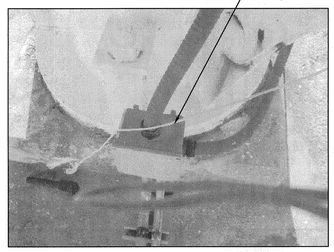
CATHODIC PROTECTION CONTROL PANEL FED FROM CONTROL PANEL LL



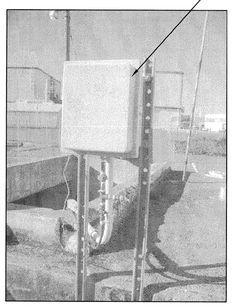
CATHODIC PROTECTION CONTROL PANEL FED FROM CONTROL PANEL LL



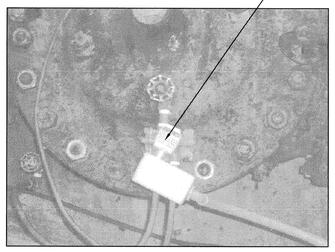
JUNCTION BOX FOR CIRCUIT LL C/13



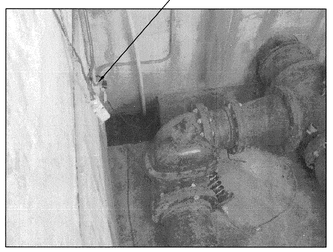
JUNCTION BOX AT BASE OF EST



PRESSURE INDICATOR PANEL

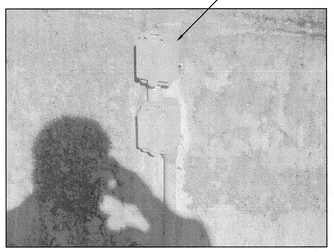


SOLENOID VALVE

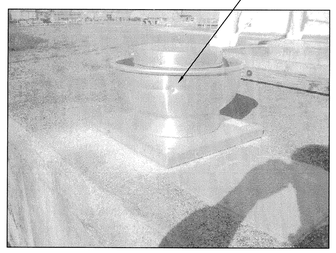


SUMP PUMP AND WIRING

RECEPTACLE

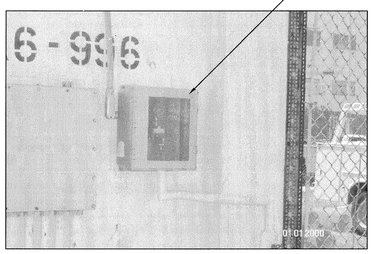


SWITCH AND RECEPTACLE

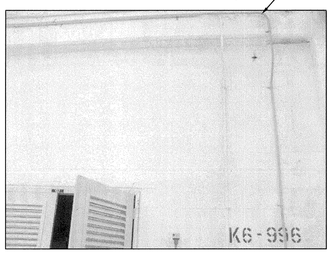


VENTILATION FAN

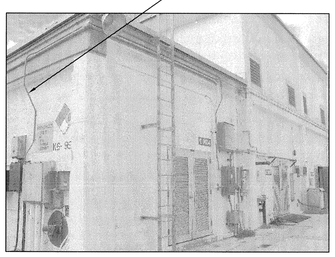
JUNCTION BOX



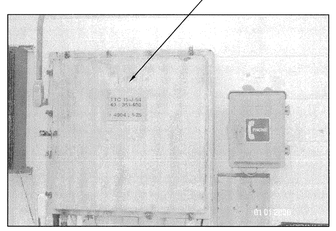
PRESSURE TRANSMITTER ENCLOSURE AT BUILDING K6-996



CONDUIT AND WIRING AT BUILDING K6-996



CONDUIT WIRING CONTINUED AROUND BUILDING K6-996



TTC CABINET 15-J-54 AT BUILDING K6-996

POWER PANEL LL AT BUILDING K6-996

DEMOLITION PHOTOS

NTS

GENERAL NOTES:

1. THE INTENT OF THIS DRAWING IS TO SHOW MAJOR ELECTRICAL, INSTRUMENTATION, AND CONTROL COMPONENTS THAT NEED TO BE REMOVED. THIS DRAWING DOES NOT PURPORT TO SHOW ALL ITEMS TO BE REMOVED OR DEMOLISHED AS PART OF THE DEMOLITON CONTRACT.
2. REFER TO DRAWING D2 DEMOLITON PLAN DRAWING.
3. ALL CONDUCTORS SHALL BE REMOVED BACK TO THEIR SOURCE PANEL.
4. REMOVE ALL CONDUITS TO 2 FEET BELOW FINISHED GRADE AND CAP.

FLAG NOTES:

1. FLOW METER, LOCATED AT BASE OF EST, TO BE REMOVED AND DISPOSED OF UNDER PCN 98814, DWG No. 79K38699.
2. CATHODIC PROTECTION PANEL, LOCATED AT BASE OF EST, TO BE REMOVED AND DISPOSED OF.
3. JUNCTION BOX, LOCATED AT BASE OF EST, TO BE REMOVED AND DISPOSED OF.
4. JUNCTION BOX, LOCATED AT BASE OF EST, TO BE REMOVED AND DISPOSED OF.
5. PRESSURE INDICATOR PANEL, LOCATED ADJACENT TO VALVE VAULT, TO BE REMOVED AND DISPOSED OF.
6. SOLENOID VALVE, LOCATED IN VALVE VAULT, TO BE REMOVED AND DISPOSED OF.
7. SUMP PUMP AND WIRING, LOCATED IN VALVE VAULT, TO BE REMOVED AND DISPOSED OF.
8. RECEPTACLE, MOUNTED ON OUTSIDE OF VALVE VAULT, TO BE REMOVED AND DISPOSED OF.
9. SWITCH AND RECEPTACLE, MOUNTED ON OUTSIDE OF VALVE VAULT, TO BE REMOVED AND DISPOSED OF.
10. VENTILATION FAN, MOUNTED ON VALVE VAULT, TO BE REMOVED AND DISPOSED OF.
11. JUNCTION BOX, LOCATED IN VALVE VAULT, TO BE REMOVED AND DISPOSED OF.
12. PRESSURE TRANSMITTER IN ENCLOSURE, MOUNTED ON EXTERIOR WALL OF BUILDING K6-996, TO BE REMOVED AND DISPOSED OF AND TURNED OVER TO CO. REMOVE ABOVE GROUND PRESSURE TRANSMITTER SENSOR LINES TO 18" BELOW GRADE AND CAP.
13. CONDUIT AND WIRING, LOCATED ON BUILDINGS K6-996 AND K6-996A, TO BE REMOVED AND DISPOSED OF. REMOVE AND DISPOSE OF PORTIONS OF CONDUITS SERVING EST POWER, INSTRUMENTATION, AND CONTROL CIRCUITS.
14. FOR INFORMATION ONLY. EXISTING TTC CABINET – TO REMAIN.
15. FOR INFORMATION ONLY. EXISTING POWER PANEL – TO REMAIN.

SYM	ZONE	DESCRIPTION	DATE	APPROVED
A		UPDATE TOTAL SHEET NUMBER	12/21/10	

REVISIONS

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SIGNATURES	DATE
DRAWN K GANSKOP	9/3/10
CHECKED M KOROS	9/3/10
DESIGNED K GANSKOP	9/3/10
SUBMITTED	12/4/10
APPROVED	DATE 12/9/10

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
JOHN F. KENNEDY SPACE CENTER, NASA
KENNEDY SPACE CENTER, FLORIDA

REVITALIZE KSC WATER SYSTEMS, DESIGN PACKAGE 2

VAB EST ELECTRICAL AND I&C DEMOLITION PLAN

SIZE F | DWG. NO. 79K38701 | REV A

TITLE | PROJ. NO. 98814 | SHEET 10 OF 10

D5

KSC FORM 1-11 (3/76)(C/G 3/94)