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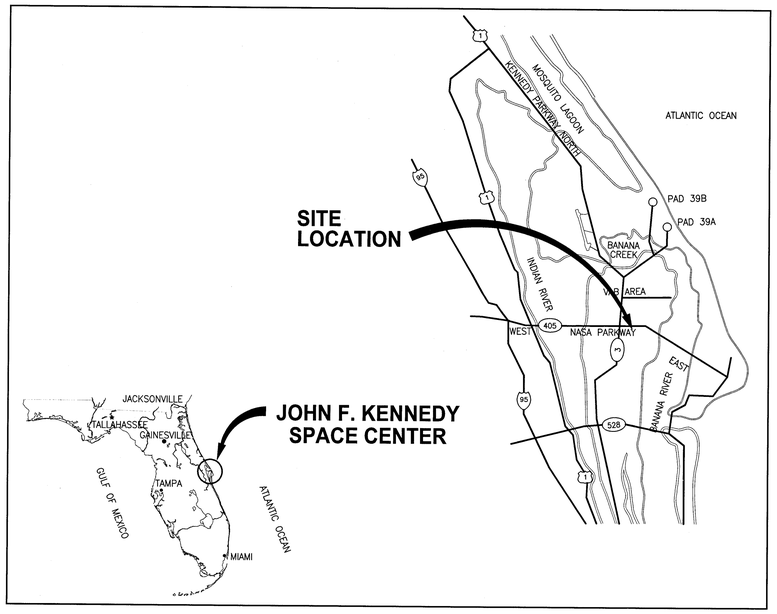
SPECIFICATION REFERENCE NO 79K39394

CLOSE/DEMO FACILITIES & STRUCTURES, VARIOUS LOCATIONS, PCN 97963.9, PACKAGE 1



VICINITY MAP
NTS

Facility #	Facility Name
M7-0862	Hazardous Waste Staging Shelter
M7-0961	Hypergol Module Processing, North
M7-1012	HMF Mix Crib
M7-1061	Hypergol Support Building
M7-1061A	GHe and GN2 Storage
M7-1061B	Antenna Tower
M7-1112	Heating Plant & High Temperature Hot Water Lines
M6-0897	Waste Water Treatment Facility
M7-0459	ISSC Concession Building
M7-0459A	Guard House

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NASA KSC Export Control Office (ECO) Export/SBU Determination Record

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DOCUMENT INFORMATION: (TITLE, NUMBER, REV, DATE)
Close/Demo Facilities and Structures, Various Locations,
PCN 97963.9
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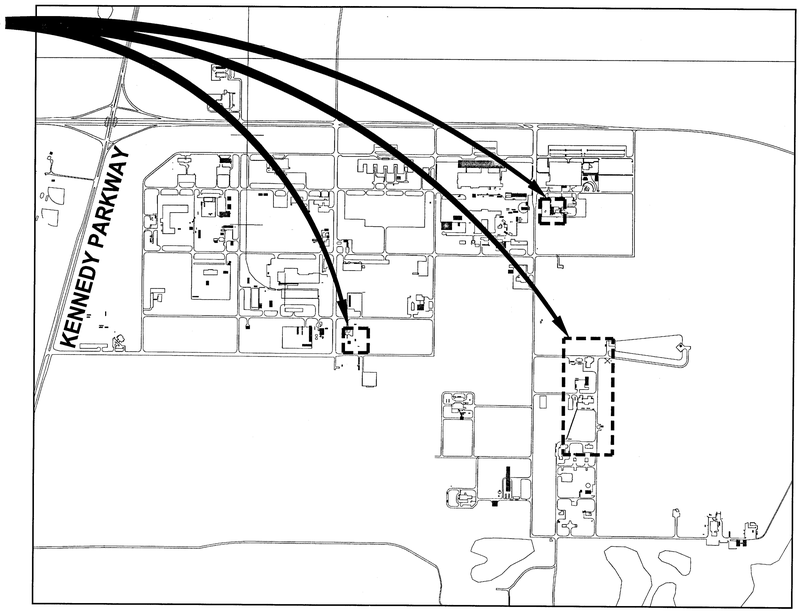
PROJECT LOCATIONS



PROJECT LOCATION
NTS

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CLOSE/DEMOLISH FACILITIES AND STRUCTURES, VARIOUS LOCATIONS, PACKAGE 1

COVER SHEET

FILE NO.	SIZE	DWG. NO.	REV
	F	79K39389	V1

PROJ. NO. 97963.9 SHEET 1 OF 98

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

FILE: \\titusmd01\Drafting\14000 Nasa\212-01_Design-Close-Demo-Var-Facs-FY13&14\Contract Drawings\Package 1\General\V1 Cover Sheet.dwg PRINTED: 6/10/2013 2:10 PM, BY USER: Kristian Perez LAST MODIFIED: 6/10/2013 9:51 AM, BY USER: K Perez

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ABBREVIATIONS

AB	AS–BUILT
AC	ASBESTOS CEMENT
A/C	AIR CONDITIONING
ACM	ASBESTOS CONTAINING MATERIAL
AIP	ABANDON IN PLACE
Ag	SILVER
AMIS	ASBESTOS MANAGEMENT INFORMATION SYSTEM
As	ARSENIC
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
Ba	BARIUM
BFG	BELOW FINISHED GRADE
BFP	BACK FLOW PREVENTER
BTM	BOTTOM
C&D	CONSTRUCTION AND DEMOLITION
CCAFS	CAPE CANAVERAL AIR FORCE STATION
Cd	CADMIUM
CF	CUBIC FOOT
CFR	CODE OF FEDERAL REGULATIONS
CI	CAST IRON
℄	CENTER LINE
CL	CONSTRUCTION LIMITS
CO	CONTRACTING OFFICER
COMM	COMMUNICATIONS
CONC	CONCRETE
COTR	CONTRACTING OFFICER'S TECHNICAL REPRESENTATIVE
CP	CAMERA POLE
Cr	CHROMIUM
DARCY	DIVERTED AGGREGATE RECLAMATION AND COLLECTION YARD
DBPR	DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION
DEL	DELUGE
DI	DUCTILE IRON
DIA/ø	DIAMETER
DOD	DEPARTMENT OF DEFENSE
DWG	DRAWING
EA	EACH
EDC	ENGINEERING DOCUMENTATION CENTER
EL	ELEVATION
EOP	EDGE OF PAVEMENT
EPA	ENVIRONMENTAL PROTECTION AGENCY
FAC	FLORIDA ADMINISTRATIVE CODE
FAR	FEDERAL ACQUISITION REGULATION
FDEP	FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
FDOT	FLORIDA DEPARTMENT OF TRANSPORTATION
FNPT	FEMALE NATIONAL PIPE THREAD
FSA	FUEL STORAGE AREA
FT	FOOT
FW	FIREX
GALV	GALVANIZED
GV	GATE VALVE
H	HIGH
HDPE	HIGH DENSITY POLYETHYLENE
Hg	MERCURY
HMID	HAZARDOUS MATERIALS IDENTIFICATION
HTHW	HIGH TEMPERATURE HOT WATER
IE	INVERT ELEVATION
IHA	INNOVATIVE HEALTH APPLICATIONS
IN	INCH
ISSC	INSTITUTIONAL SERVICES SUPPORT CONTRACT
KICS	KENNEDY INTEGRATED COMMUNICATIONS SERVICES
KSC	KENNEDY SPACE CENTER
LBS	POUNDS
LC	LAUNCH COMPLEX
LF	LINEAR FOOT
LP	LIGHT POLE, ALUMINUM
MAX	MAXIMUM
mg/kg	MILLIGRAMS PER KILOGRAM
mg/L	MILLIGRAMS PER LITER
MIN	MINIMUM
MJ	MECHANICAL JOINT
MNPT	MALE NATIONAL PIPE THREAD
NASA	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NTS	NOT TO SCALE
#	NUMBER DESIGNATION
OC	ON CENTER
OD	OUTSIDE DIAMETER
OSHA	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
OP	OPPOSITE
OPS	OPERATIONS
Pb	LEAD
PCB	POLYCHLORINATED BIPHENYL
PE	PLAIN END
PIV	POST INDICATOR VALVE
POC	POINT OF CONTACT
POL	PETROLEUM, OILS AND LUBRICANTS
PPE	PERSONAL PROTECTIVE EQUIPMENT
PPM	PARTS PER MILLION
PRL	POTENTIAL RELEASE LOCATION
PWQ	PROCESS WASTE QUESTIONNAIRE
PVC	POLYVINYL CHLORIDE
RCRA	RESOURCE CONSERVATION AND RECOVERY ACT
REQ	REQUIRED
RMJ	RESTRAINED MECHANICAL JOINT
RPZ	REDUCED PRESSURE ZONE
RRMF	REUSE, RECYCLING, AND MARKETING FACILITY
SD	STORM DRAIN
Se	SELENIUM
SF	SILT FENCE
SJRWMD	SAINT JOHNS RIVER WATER MANAGEMENT DISTRICT
SP	SOLAR POLE
SS	STAINLESS STEEL, SUB–STATION (ELECTRICAL)
SQ	SQUARE
STD	STANDARD
SWMU	SOLID WASTE MANAGEMENT UNIT
T&B	TOP AND BOTTOM
T/FDN	TOP OF FOUNDATION
THK	THICK
THRD	THREADED
TRP	TECHNICAL RESPONSE PACKAGE
TSCA	TOXIC SUBSTANCES CONTROL ACT
TYP	TYPICAL
UGE	UNDERGROUND ELECTRICAL
UNO	UNLESS NOTED OTHERWISE
USA	UNITED SPACE ALLIANCE
VFI	VACUUM FAULT INTERRUPTER
VIF	VERIFY IN FIELD
W/	WITH
WP	WOOD POLE WITH LIGHTS

LEGEND

- MATCH LINE
- DEMOLITION AREA
- SF — SILT FENCE
- CL — CLEARING LIMITS
- W — WATER LINE
- RIBBON CURB
- REDUCER

SURVEY LEGEND

SYMBOL LEGEND

- = BACK–FLOW PREVENTER
- = BOLLARD
- = CURB INLET, STORM GRATE
- = CONCRETE LIGHT POLE
- = CLEAN–OUT (SANITARY)
- = CONCRETE POWER POLE
- = ELECTRIC MARKER
- = ELECTRIC BOX
- = ELECTRIC HANDHOLE
- = ELECTRIC METER
- = ELECTRIC MANHOLE
- = ELECTRIC TRANSFORMER
- = FIRE DEPARTMENT CONNECTION
- = FIRE METER
- = FIBER OPTIC CABLE MARKER
- = FIBER OPTIC CABLE HANDHOLE
- = GAS MARKER
- = GAS METER
- = GUY
- = GAS VALVE
- = HYDRANT
- = INDICATOR VALVE
- = LIGHT POLE
- = MANHOLE, UNKNOWN
- = MANHOLE, SANITARY SEWER
- = MANHOLE, STORM SEWER
- = MONITORING WELL
- = STORM GRATE
- = SIGN
- = SEWER VALVE
- = SPRINKLER HEAD
- = TELEPHONE HANDHOLE
- = TELEPHONE BOX
- = TELEPHONE MARKER
- = TELEPHONE MANHOLE
- = TELEPHONE PEDESTAL
- = TRAFFIC SIGNAL BOX
- = TRAFFIC SIGNAL
- = UTILITY BLOW–OFF
- = WATER MARKER
- = WATER METER
- = WATER SPIGOT
- = WATER VALVE
- = WELL
- = WOOD POWER POLE

LINETYPE LEGEND

- = BUILDING
- = BUILDING (ROOF OVERHANG)
- = CENTERLINE
- = CONCRETE
- = CURB
- EOP — = EDGE OF PAVEMENT
- = EDGE OF ROAD
- x — x — = FENCELINE
- HTHW — = HIGH TEMPERATURE HOT WATER
- = TREELINE
- = WALL
- = BREAKLINE
- = CENTERLINE DITCH
- = TOE OF SLOPE
- TOE — = TOP OF BANK
- UGTV — UGTV — = UNDERGROUND CABLE TV
- UGE — UGE — = UNDERGROUND ELECTRIC
- FOC — FOC — = UNERGROUND FIBER OPTIC CABLE
- = UNDERGROUND UNKNOWN UTILITY
- GAS — GAS — = UNDERGROUND GAS
- = RAILROAD
- SAN — SAN — = SANITARY SEWER
- SFM — SFM — = SANITARY FORCEMAIN
- = SITE FEATURE
- = STORM SEWER
- UGT — UGT — = UNDERGROUND TELEPHONE
- UGW — = UNDERGROUND WATER
- UGCW — UGCW — = UNDERGROUND CHILLED WATER
- = PAVEMENT STRIPING (WHITE DASHED)
- = PAVEMENT STRIPING (WHITE SOLID)
- = PAVEMENT STRIPING (YELLOW DASHED)
- = PAVEMENT STRIPING (YELLOW SOLID)
- = PAVEMENT STRIPING (BLUE SOLID)

DRAWING INDEX

REV	SHEET	F CODE	DESCRIPTION
	1	V1	COVER SHEET
	2	V2	DRAWING INDEX, ABBREVIATIONS, AND LEGEND
	3	V3	KEY MAP
	4	EN1	ENVIRONMENTAL AND ASBESTOS NOTES AND SCHEDULES
	5	C1	STORMWATER POLLUTION PREVENTION PLAN NOTES
	6	C2	STORMWATER POLLUTION PREVENTION PLAN DETAILS AND FORM
	7	C3	STORMWATER POLLUTION PREVENTION PLAN
	8	D1	GENERAL NOTES
	9	D2	SITE PLAN BUILDING M7–0862
	10	D3	SITE PLAN BUILDING M7–0961
	11	D4	PAVEMENT PLAN BUILDING M7–0961
	12	D5	UTILITIES PLAN BUILDING M7–0961
	13	D6	SITE AND PAVEMENT PLAN M7–1012
	14	D7	UTILITIES PLAN M7–1012
	15	D8	SITE PLAN M7–1061, M7–1061A & M7–1061B
	16	D9	PAVEMENT PLAN M7–1061, M7–1061A & M7–1061B
	17	D10	UTILITIES PLAN M7–1061, M7–1061A & M7–1061B
	18	D11	SITE PLAN BUILDING M7–1112
	19	D12	PAVEMENT PLAN BUILDING M7–1112
	20	D13	UTILITIES PLAN BUILDING M7–1112
	21	D14	SITE AND PAVEMENT PLAN BUILDING M6–0897
	22	D15	UTILITIES PLAN BUILDING M6–0897
	23	D16	SITE PLAN BUILDINGS M7–0459 & M7–0459A
	24	D17	UTILITIES PLAN BUILDINGS M7–0459 & M7–0459A
	25	D18	BUILDING M7–0862 AS–BUILTS
	26	D19	BUILDING M7–0961 AS–BUILTS
	27	D20	BUILDING M7–0961 AS–BUILTS
	28	D21	BUILDING M7–0961 AS–BUILTS
	29	D22	BUILDING M7–0961 AS–BUILTS
	30	D23	BUILDING M7–0961 AS–BUILTS
	31	D24	BUILDING M7–0961 AS–BUILTS
	32	D25	BUILDING M7–0961 AS–BUILTS
	33	D26	BUILDING M7–0961 AS–BUILTS
	34	D27	BUILDING M7–1061 AS–BUILTS
	35	D28	BUILDING M7–1061 AS–BUILTS
	36	D29	BUILDING M7–1061 AS–BUILTS
	37	D30	BUILDING M7–1061 AS–BUILTS
	38	D31	BUILDING M7–1061 AS–BUILTS
	39	D32	BUILDING M7–1061 AS–BUILTS
	40	D33	BUILDING M7–1061 AS–BUILTS
	41	D34	BUILDING M7–1061 AS–BUILTS
	42	D35	BUILDING M7–1061 AS–BUILTS
	43	D36	BUILDING M7–1061 AS–BUILTS
	44	D37	BUILDING M7–1061 AS–BUILTS
	45	D38	BUILDING M7–1061 AS–BUILTS
	46	D39	BUILDING M7–1061 AS–BUILTS
	47	D40	BUILDING M7–1061 AS–BUILTS
	48	D41	BUILDING M7–1061 AS–BUILTS
	49	D42	BUILDING M7–1061 AS–BUILTS
	50	D43	BUILDING M7–1061 AS–BUILTS
	51	D44	BUILDING M7–1061 AS–BUILTS
	52	D45	M7–1061A AS–BUILTS
	53	D46	M7–1061A AS–BUILTS
	54	D47	BUILDING M7–1112 AS–BUILTS
	55	D48	BUILDING M7–1112 AS–BUILTS
	56	D49	BUILDING M7–1112 AS–BUILTS
	57	D50	BUILDING M7–1112 AS–BUILTS
	58	D51	BUILDING M7–1112 AS–BUILTS
	59	D52	BUILDING M7–1112 AS–BUILTS
	60	D53	BUILDING M7–1112 AS–BUILTS
	61	D54	BUILDING M7–1112 AS–BUILTS
	62	D55	BUILDING M6–0897 AS–BUILTS
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	74	D67	BUILDING M7–0459 PHOTOS

DRAWING INDEX

REV	SHEET	F CODE	DESCRIPTION
	75	D68	BUILDING M7–0459A PHOTOS
	76	D69	DETAILS
	77	D70	DETAILS
	78	E1	GENERAL ELECTRICAL NOTES
	79	E2	ELECTRICAL SITE PLAN BUILDING M7–0862
	80	E3	ELECTRICAL SITE PLAN BUILDING M7–0961
	81	E4	ELECTRICAL SITE PLAN BUILDING M7–1012
	82	E5	ELECTRICAL SITE PLAN M7–1061, M7–1061A & M7–1061B
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	84	E7	ELECTRICAL SITE PLAN BUILDING M6–0897
	85	E8	ELECTRICAL SITE PLAN BUILDINGS M7–0459 & M7–0459A
	86	E9	ELECTRICAL ONE–LINE M7–1012 & M7–1061A
	87	E10	ELECTRICAL ONE–LINE M7–0961,M7–1061,M7–1061A,M7–1061B & M7–1112
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	89	E12	ELECTRICAL ONE–LINE C M7–1061, M7–1061A & M7–1061B
	90	E13	ELECTRICAL ONE–LINE D M7–1061, M7–1061A & M7–1061B
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	97	E20	BUILDING M7–1112 PHOTOS
	98	E21	BUILDINGS M6–0897, M7–0459, & M7–0459A PHOTOS

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APPROVED D. TOTH	6/14/13
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CLOSE/DEMOLISH FACILITIES AND STRUCTURES, VARIOUS LOCATIONS, PACKAGE 1

DRAWING INDEX, ABBREVIATIONS, AND LEGEND

FILE NO.	SIZE	DWG. NO.	REV
	F	79K39389	
PROJ. NO. 97963.9		SHEET 2	

V2

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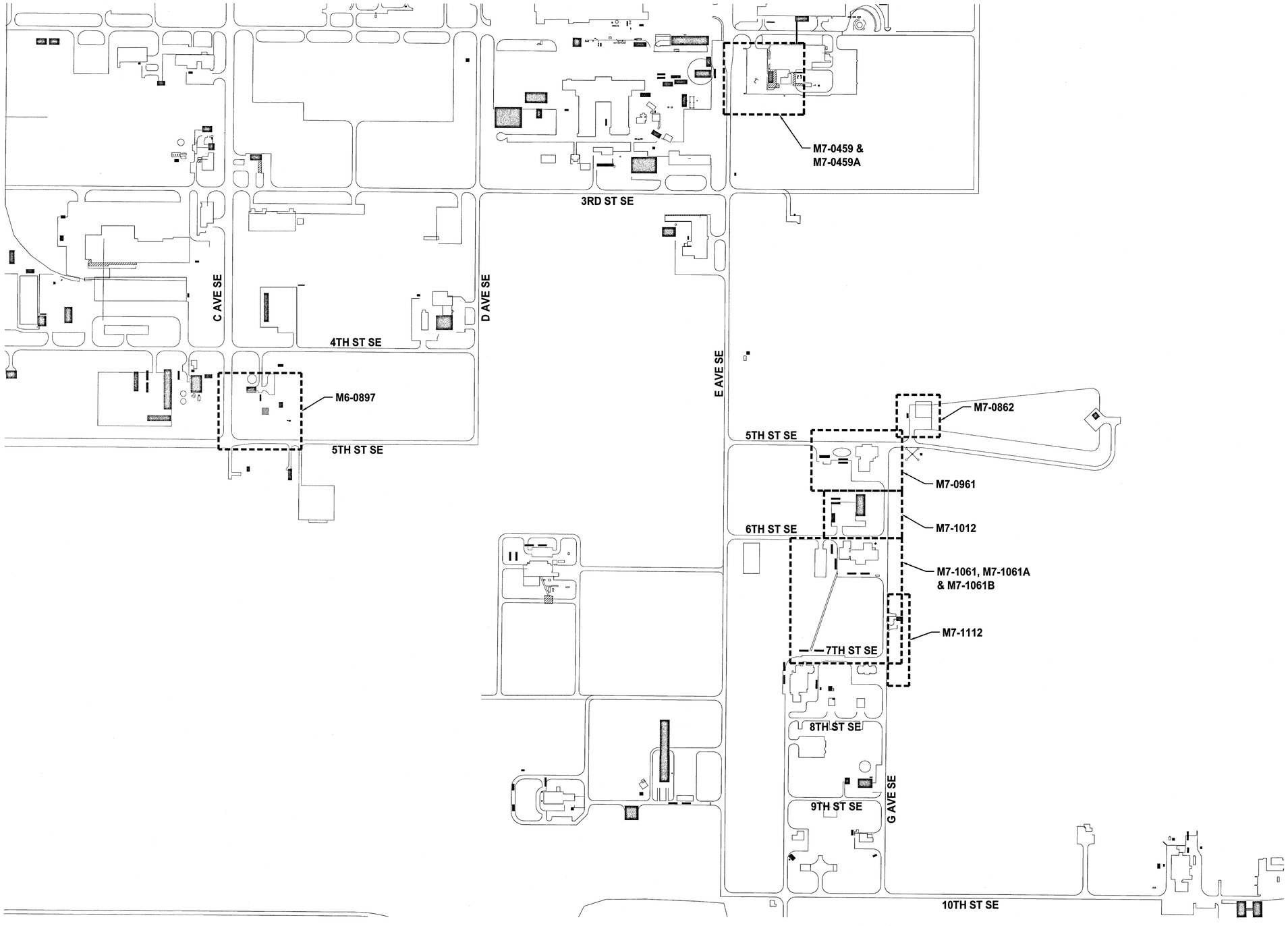

KEY MAP
NTS

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CLOSE/DEMOLISH FACILITIES AND STRUCTURES, VARIOUS LOCATIONS, PACKAGE 1

KEY MAP

FILE NO.	SIZE	DWG. NO.	REV
	F	79K39389	

PROJ. NO. 97963.9 | SHEET 3

V3

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PCB PAINT SCHEDULE			
FACILITY	LOCATION	DESCRIPTION	CONCENTRATION (PPM)
M7-0459	WHITE/LIGHT GRAY PAINT ON EXTERIOR METAL WALLS	EXT. WHITE/LIGHT GRAY	1.1 U
M7-0459	GRAY 'PATCH' PAINT ON METAL WALLS	EXT. LIGHT GRAY	1.1 U
M7-0459	ELECTRICAL EQUIPMENT	ELECTRICAL EQUIPMENT	<50*
M7-0961	CREAM INTERIOR PAINT ON METAL BEAMS, STAIRS AND CONCRETE FLOORS OF HIGH BAY STRUCTURE	INT. CREAM	8.4
M7-0961	WHITE INTERIOR PAINT ON BEAMS, STAIRS, AND CONCRETE FLOORS OF HIGH BAY STRUCTURE	INT. WHITE	46
M7-0961	SILVER PAINT ON METAL DOOR FRAME FOR HIGH BAY DOORS (INTERIOR)	INT. SILVER	4.5
M7-0961	ELECTRICAL EQUIPMENT	ELECTRICAL EQUIPMENT	>50*
M7-1061	ELECTRICAL EQUIPMENT	ELECTRICAL EQUIPMENT	>50*
M6-0897	CREAM SEALANT OVER WHITE OVER GREEN ON ROOF	CREAM	1.1 U
M6-0897	ELECTRICAL EQUIPMENT	ELECTRICAL EQUIPMENT	<50*

NOTE: GENERATOR KNOWLEDGE OF FACILITIES WITH ELECTRICAL COMPONENETS INSTALLED AFTER 1980 HAVE SHOWN PCBS IN ELECTRICAL EQUIPMENT PAINT COATINGS TO BE <50 PPM. SAMPLING AND TESTING FOR PCBS IN PAINTS AND COATINGS ON ELECTRICAL EQUIPMENT IS RECOMMENDED FOR BUILDINGS CONSTRUCTED BEFORE 1980 TO MAXIMIZE EQUIPMENT RECYCLING AND MINIMIZE WASTE DISPOSAL. PAINT COATINGS ON ELECTRICAL EQUIPMENT THAT APPEAR TO HAVE THE SAME COLOR PAINT AS PAINT COATINGS ON OTHER ITEMS WITHIN THE SAME FACILITY CAN BE ASSUMED TO HAVE SIMILAR PCB CONCENTRATIONS.

* – ELECTRICAL EQUIPMENT IN FACILITIES M7-0459 AND M6-0897 WAS INSTALLED AFTER 1980 AND PCB CONCENTRATIONS <50 PPM ARE BASED ON GENERATOR KNOWLEDGE. ELECTRICAL EQUIPMENT IN FACILITIES M7-0961 AND M7-1061 WAS INSTALLED BEFORE 1980 AND ARE ASSUMED TO CONTAIN PCBS AT CONCENTRATIONS > 50 PPM.

U – INDICATES THAT THE PCB COMPOUNDS WERE ANALYZED FOR BUT NOT DETECTED. THE NUMBER REPORTED REPRESENTS THE DETECTED CONCENTRATION PLUS HALF OF THE SUM OF THE LABORATORY DETECTION LIMITS FOR NON-DETECTED ANALYTES."

ENVIRONMENTAL NOTES

1. THE PROJECT SITES LISTED ARE WITHIN THE BOUNDARY OF A SOLID WASTE MANAGEMENT UNIT OR A POTENTIAL RELEASE LOCATION BEING INVESTIGATED BY THE NASA REMEDIATION GROUP. KNOWN SWMU SITES INCLUDE: SWMU #90 (FACILITIES M7-0862, M7-0961, AND M7-1112), SWMU #65 (FACILITIES M7-1061, M7-1061A, AND M7-1061B), AND SWMU #85 (FACILITY M7-0459). A SWMU/PRL DESIGNATION MEANS A SITE HAS HAD HISTORICAL OPERATIONS WHICH HAD THE POTENTIAL TO IMPACT THE ENVIRONMENT.

   SOIL EXCAVATED FROM THE LAND SURFACE TO ANY DEPTH SHALL BE RETURNED TO THE AREA OF EXCAVATION FROM WHICH IT WAS REMOVED. EXCAVATED SOIL THAT CANNOT BE RETURNED TO THE AREA FROM WHICH IT WAS REMOVED SHALL BE CONTAINERIZED, SAMPLED AND DISPOSED OF IN ACCORDANCE WITH THE (PWQ/TRP) PROCESS.

2. HEAVY METALS IN PAINT AND MATERIALS HAVE BEEN ASSUMED IN AND ON THE FACILITIES TO BE DEMOLISHED. 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. THE CONTRACTOR SHALL FOLLOW ALL FEDERAL, STATE, AND LOCAL REGULATIONS.

3. THE CONTRACTOR SHALL DISPOSE OF PRESSURE TREATED WOOD POLES IN ACCORDANCE WITH NASA SPECIAL CONDITIONS CONTRACT CLAUSES. PRESSURE TREATED WOOD POLES CAN BE DISPOSED OF AT THE BREVARD COUNTY LANDFILL.

4. PCBS IN PAINTS HAVE BEEN TESTED ON SELECTED FACILITY COMPONENTS TO DETERMINE WHETHER THEY CONTAIN PCB CONCENTRATIONS AT LESS THAN THE REGULATED LIMITS AND THUS MAY BE RECYCLED. REFER TO THE PAINT SCHEDULES FOR MORE INFORMATION. ALL PAINTED BLOCK, CONCRETE, AND SLABS SHALL BE DISPOSED OF AT THE KSC CLASS III LANDFILL. ONLY CLEAN UNPAINTED AND UNSTAINED CONCRETE AND SLABS CAN BE TAKEN TO THE DARCY AT THE KSC CLASS III LANDFILL. MANUFACTURER'S PAINT COATINGS AND OTHER PAINTS THAT HAVE NOT BEEN TESTED SHALL BE ASSUMED TO BE PCB BULK PRODUCT WASTE OR SHALL BE SAMPLED TO DETERMINE PCB CONCENTRATIONS. PCB BULK PRODUCT WASTE SHALL BE DISPOSED OF AT THE KSC CLASS III LANDFILL.

5. THE CONTRACTOR SHALL CLEAN AND CERTIFY ALL STORAGE TANKS WITHIN THIS PROJECT AS CLEAN IN ACCORDANCE WITH THE REGULATIONS, BEFORE DEMOLITION.

6. CONTRACTOR SHALL NOT DESTROY OR DISTURB ANY WETLANDS IN ACCORDANCE WITH SPECIFICATIONS.

ASBESTOS ABATEMENT NOTES

1. ASBESTOS CONTAINING MATERIALS (ACM) HAVE BEEN IDENTIFIED IN AND ON THE FACILITIES TO BE DEMOLISHED. THE CONTRACTOR SHALL HANDLE AND DISPOSE OF ACM IN ACCORDANCE WITH APPLICABLE STATE AND FEDERAL REQUIREMENTS AND THE CONTRACT DOCUMENTS.

2. ASBESTOS INFORMATION IS BASED ON AN ASBESTOS SURVEY REPORT PROVIDED BY JONES EDMUNDS (JE). NON-DESTRUCTIVE TESTING WAS USED IN COLLECTING INFORMATION PROVIDED IN THIS REPORT. ALL SURVEY INFORMATION, INCLUDING MATERAIL, QUANTITY, AND CONDITION SHALL BE REVIEWED AT THE TIME FACILITY OR SYSTEM MODIFICATIONS ACTUALLY OCCUR, TO ENSURE MATERIALS HAVEN'T BEEN MODIFIED. A COMPLETE COPY OF THE ASBESTOS SURVEY BY FACILITIES CAN BE OBTAINED FROM THE CONTRACTING OFFICER.

3. UNLESS NOTED OTHERWISE, PRIOR TO DEMOLITION ABATE AND DISPOSE OF ALL ACM. REFER TO THE ASBESTOS SCHEDULE IN THE CONTRACT SPECIFICATIONS FOR LOCATIONS OF ACM.

4. NON-FRIABLE ASBESTOS WILL BE ACCEPTED AT THE KSC CLASS III LANDFILL UPON DETERMINATION USING KSC FORM 28-1024 AND SIGNED BY THE NASA ENVIRONMENTAL BRANCH CHIEF. A RECEIPT OF DISPOSAL SHALL BE COPIED TO THE CONTRACTING OFFICER. DISPOSAL OF ALL FRIABLE ACM DEMOLITION DEBRIS SHALL BE AT THE BREVARD COUNTY LANDFILL LOCATED ON ADAMSON ROAD IN COCOA, FL. THE CONTRACTOR SHALL NOTIFY THE KSC CLASS III AND BREVARD COUNTY LANDFILLS 24 HOURS IN ADVANCE OF DELIVERY OF ASBESTOS CONTAINING MATERIALS.

5. ITEMS SHOWN IN THE ASBESTOS COLUMN OF THE SCHEDULES AS "YES*" HAVE BEEN ASSUMED TO CONTAIN ASBESTOS DUE TO THE CRITICAL NATURE ASSOCIATED WITH THE SYSTEM. THE CONTRACTOR SHALL ASSUME THESE ITEMS ARE POSITIVE FOR ASBESTOS. THE CONTRACTOR HAS THE OPTION TO SAMPLE MATERIAL BEFORE DEMOLITION BEGINS IN ORDER TO MINIMIZE THE DEMOLITION SCHEDULE.

6. BASED ON GENERATOR KNOWLEDGE, COMPOSITE SAMPLES OF DRYWALL AND JOINT COMPOUND CONTAIN LESS THAN 1% ASBESTOS AND THEREFORE CAN BE REMOVED AS NON-ACM. THE CONTRACTOR SHALL REFER TO THE ASBESTOS SCHEDULES AND LABORATORY RESULTS FOR INDIVIDUAL ASBESTOS QUANTITIES OF DRYWALL AND JOINT COMPOUND FOR WORKER PROTECTION.

THIS SPACE RESERVED

SYM	ZONE	DESCRIPTION	DATE	APPROVED

REVISIONS

THIS DRAWING CREATED IN AUTOCAD 2007 FILE FORMAT AND WILL BE REVISED ONLY ON AN AUTOCAD SYSTEM. FILE: 14000212P1-EN01.DWG

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CHECKED M. HAYS	06/10/13
SUBMITTED K. RIVERA	06/10/13
ST of LICENSURE: FL LICENSE NO: 65681	06/10/13
APPROVED D. TOTH	6/14/13
I. OTERO	JUN 13/13

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

CLOSE/DEMOLISH FACILITIES AND STRUCTURES, VARIOUS LOCATIONS, PACKAGE 1

ENVIRONMENTAL AND ASBESTOS NOTES AND SCHEDULES

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CONTRACTOR REQUIREMENTS

OWNERS REQUIREMENTS

CLOSE / DEMOLISH VARIOUS FACILITIES AND EQUIPMENT

KENNEDY SPACE CENTER, FLORIDA (BREVARD COUNTY)

OWNER AND ADDRESS:

NASA
KENNEDY SPACE CENTER, FLORIDA (BREVARD COUNTY)

DEMOLITION AND REMOVAL OF VARIOUS FACILITIES.

SOIL DISTURBING ACTIVITIES WILL INCLUDE:
CLEARING AND GRUBBING; PERIMETER, AND OTHER EROSION AND SEDIMENT CONTROLS; EXCAVATION FOR DEMOLITION OF PAVEMENT AND FACILITY FOUNDATIONS.

RUNOFF COEFFICIENT:
PRE–CONSTRUCTION – 0.58
DURING CONSTRUCTION – 0.41
POST–CONSTRUCTION – 0.23

SOILS:

SITE MAPS:

SEE ATTACHED C SHEETS FOR LOCATION OF TEMPORARY STABILIZATION PRACTICES.

SEE GENERAL NOTES AND SPECIFICATIONS FOR REQUIREMENTS FOR TEMPORARY AND PERMANENT STABILIZATION.

SITE AREA::
TOTAL AREA OF SITES – ± 7.30 ACRES

TOTAL AREA TO BE DISTURBED – 3.40 ACRES (ESTIMATED)

NAME OF RECEIVING WATERS:
DITCHES TO INDIAN RIVER AND BANANA RIVER LAGOON.

CONTROLS

THIS PLAN UTILIZES BEST MANAGEMENT PRACTICES TO CONTROL EROSION AND TURBIDITY CAUSED BY STORM WATER RUN OFF. IT IS THE CONTRACTORS RESPONSIBILITY TO INSTALL AND MAINTAIN THE CONTROLS AS PER PLAN AS WELL AS ENSURING THE PLAN IS PROVIDING THE PROPER PROTECTION AS REQUIRED BY FEDERAL, STATE, AND LOCAL LAWS. REFER TO 'CONTRACTORS REQUIREMENTS' FOR A DESCRIPTION OF THE CONTROLS THAT MAY BE IMPLEMENTED.

STORM WATER MANAGEMENT

AREAS SHALL BE STABILIZED IMMEDIATELY AFTER GRADING IS COMPLETE.

REFER TO 'CONTRACTORS REQUIREMENTS' FOR THE TIMING OF CONTROL/MEASURES.

CERTIFICATION OF COMPLIANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS

IN AN EFFORT TO ENSURE COMPLIANCE WITH FEDERAL, STATE, AND LOCAL LAWS REGARDING EROSION AND TURBIDITY CONTROLS, THE FOLLOWING PERMITS HAVE BEEN OBTAINED.

D.E.P. DREDGE/FILL PERMIT # N/A________________
A.C.O.E. DREDGE/FILL PERMIT # N/A________________
S.J.R.W.M.D. M.S.S.W. PERMIT # N/A________________

POLLUTION PREVENTION PLAN CERTIFICATION

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHERED AND EVALUATED THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.

SIGNED: ____________________

TITLE: ____________________

DATE: ____________________

CONTRACTOR REQUIREMENTS

GENERAL

THE CONTRACTOR SHALL AT A MINIMUM IMPLEMENT THE CONTRACTOR'S REQUIREMENTS OUTLINED BELOW AND THOSE MEASURES SHOWN ON THE EROSION AND TURBIDITY CONTROL PLAN. IN ADDITION THE CONTRACTOR SHALL UNDERTAKE ADDITIONAL MEASURES REQUIRED TO BE IN COMPLIANCE WITH APPLICABLE PERMIT CONDITIONS AND STATE WATER QUALITY STANDARDS DEPENDING ON THE NATURE OF MATERIALS AND METHODS OF CONSTRUCTION.

SEQUENCE OF MAJOR ACTIVITIES

THE ORDER OF ACTIVITIES WILL BE AS FOLLOWS.

1. COMPLETE AND SUBMIT NOTICE OF INTENT (NOI) TO FDEP (BY OWNER)
2. INSTALL STABILIZED CONSTRUCTION ENTRANCE. (IF NECESSARY)
3. INSTALL SILT FENCES
4. DEMOLISH FACILITIES AND PAVEMENT INCLUDING FOUNDATIONS.
5. STOCK PILE TOP SOIL (IF NECESSARY).
6. PERFORM PRELIMINARY GRADING ON SITE AS REQUIRED.
7. STABILIZE CLEARED AREAS AND STOCKPILES AS SOON AS PRACTICABLE.
8. INSTALL PERMANENT SEEDING/SOD AS SOON AS POSSIBLE
9. REMOVE ACCUMULATED SEDIMENT FROM BASINS AND DITCHES.
10. WHEN ALL CONSTRUCTION ACTIVITY IS COMPLETE AND THE SITE IS STABILIZED, REMOVE ANY TEMPORARY DIVERSION SWALES/DIKES AND RESEED/SOD AS REQUIRED.
11. COMPLETE AND SUBMIT NOTICE OF TERMINATION (NOT) TO FDEP (BY OWNER)

TIMING OF CONTROLS/MEASURES

AS INDICATED IN THE SEQUENCE OF MAJOR ACTIVITIES, THE SILT FENCES WILL BE CONSTRUCTED PRIOR TO CLEARING OR GRADING OF ANY OTHER PORTIONS OF THE SITE. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICAL IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED. ONCE CONSTRUCTION ACTIVITY CEASES PERMANENTLY IN ACCORDANCE WITH THE PLANS. AFTER THE ENTIRE SITE IS STABILIZED, THE ACCUMULATED SEDIMENT WILL BE REMOVED FROM THE SWALES WILL BE REGRADED/REMOVED AND STABILIZED IN ACCORDANCE WITH THE SEDIMENT AND EROSION CONTROL PLAN.

CONTROLS

IT IS THE CONTRACTORS RESPONSIBILITY TO IMPLEMENT THE EROSION AND TURBIDITY CONTROLS AS SHOWN ON THE SEDIMENT AND EROSION CONTROL PLAN. IT IS ALSO THE CONTRACTORS RESPONSIBILITY TO ENSURE THESE CONTROL ARE PROPERLY INSTALLED, MAINTAINED AND FUNCTIONING PROPERLY TO PREVENT TURBID OR POLLUTED WATER FROM LEAVING THE PROJECT SITE. THE CONTRACTOR WILL ADJUST THE EROSION CONTROL PLAN AND ADD ADDITIONAL CONTROL MEASURES, AS REQUIRED, TO ENSURE THE SITE MEETS ALL FEDERAL STATE AND LOCAL EROSION AND SEDIMENT CONTROL PLAN AND AS REQUIRED TO MEET THE SEDIMENT AND TURBIDITY REQUIREMENTS IMPOSED ON THE PROJECT SITE BY THE REGULATORY AGENCIES.

EROSION AND SEDIMENT CONTROLS
STABILIZATION PRACTICES

1. FILTER FABRIC BARRIER: FILTER FABRIC BARRIERS CAN BE USED BELOW DISTURBED AREAS SUBJECT TO SHEET AND RILL EROSION WITH THE FOLLOWING LIMITATIONS:
   A. WHERE THE MAXIMUM SLOPE BEHIND THE BARRIER IS 33 PERCENT.
   B. IN MINOR SWALES OR DITCH LINES WHERE THE MAXIMUM CONTRIBUTING DRAINAGE AREA IS NO GREATER THAN 0.5 AC.
2. BRUSH BARRIER WITH FILTER FABRIC: BRUSH BARRIER MAY BE USED BELOW DISTURBED AREAS SUBJECT TO SHEET AND RILL EROSION WHERE ENOUGH RESIDUE MATERIAL IS AVAILABLE ON SITE.
3. LEVEL SPREADER: A LEVEL SPREADER MAY BE USED WHERE SEDIMENT–FREE STORM RUNOFF IS INTERCEPTED AND DIVERTED AWAY FROM THE GRADED AREAS ONTO UNDISTURBED STABILIZED AREAS. THIS PRACTICE APPLIES ONLY IN THOSE SITUATIONS WHERE THE SPREADER CAN BE CONSTRUCTED ON UNDISTURBED SOIL AND THE AREA BELOW THE LEVEL UP IS STABILIZED. THE WATER SHOULD NOT BE ALLOWED TO RECONCENTRATE AFTER RELEASE.
4. STOCKPILING MATERIAL: NO EXCAVATED MATERIAL SHALL BE STOCKPILED IN SUCH A MANNER AS TO DIRECT RUNOFF DIRECTLY OFF THE PROJECT SITE INTO ANY ADJACENT WATER BODY OR STORM WATER COLLECTION FACILITY.
5. EXPOSED AREA LIMITATION: THE SURFACE AREA OF OPEN, ERODIBLE SOIL EXPOSED BY CLEARING GRUBBING OPERATIONS OR EXCAVATION AND FILLING OPERATIONS SHALL NOT EXCEED 0.5 AC. THIS REQUIREMENT MAY BE WAIVED FOR LARGE PROJECTS WITH AN EROSION CONTROL PLAN WHICH DEMONSTRATES THAT OPENING OF ADDITIONAL AREA WILL NOT SIGNIFICANTLY AFFECT OFF–SITE DEPOSIT OF SEDIMENTS.
6. INLET PROTECTION: INLETS AND CATCH BASINS WITH DISCHARGE DIRECTLY OFF–SITE SHALL BE PROTECTED FROM SEDIMENT–LADEN STORM RUNOFF UNTIL THE COMPLETION OF ALL CONSTRUCTION OPERATIONS THAT MAY CONTRIBUTE SEDIMENT TO THE INLET.
7. TEMPORARY SEEDING: AREAS OPENED BY CONSTRUCTION OPERATIONS AND THAT ARE NOT ANTICIPATED TO BE RE–EXCAVATED OR DRESSED AND RECEIVE FINAL GRASSING TREATMENT WITHIN 21 DAYS SHALL BE SEEDED WITH A QUICK GROWING GRASS. SPECIES WHICH WILL PROVIDE AN EARLY COVER DURING THE SEASON IN WHICH IT IS PLANTED AND WILL NOT LATER COMPLETE WITH THE PERMANENT GRASSING.
8. TEMPORARY SEEDING AND MULCHING: SLOPES STEEPER THAN 6:1 THAT FALL WITHIN THE CATEGORY ESTABLISHED IN ITEM 8 ABOVE SHALL ADDITIONALLY RECEIVE MULCHING OF APPROXIMATELY 6" LOOSE MEASURE OF MULCH MATERIAL CUT INTO THE SOIL OF THE SEEDED AREA ADEQUATE TO PREVENT MOVEMENT OF SEED AND MULCH OR HYDROMULCHED.
9. TEMPORARY GRASSING: THE SEEDED OR SEEDED AND MULCHED AREA(S) SHALL BE ROLLED AND WATERED OR HYDROMULCHED OR OTHER SUITABLE METHODS IF REQUIRED TO ASSURE OPTIMUM GROWING CONDITIONS FOR THE ESTABLISHMENT OF A GOOD GRASS COVER.
10. TEMPORARY REGRASSING: IF, AFTER 14 DAYS FROM SEEDING, THE TEMPORARY GRASSED AREAS HAVE NOT ATTACHED A MINIMUM OF 75 PERCENT GOOD GRASS COVER, THE AREA WILL BE REWORKED AND ADDITIONAL SEED APPLIED SUFFICIENT TO ESTABLISH THE DESIRED VEGETATIVE COVER.
11. MAINTENANCE: ALL FEATURES OF THE PROJECT DESIGNED AND CONSTRUCTED TO PREVENT EROSION AND SEDIMENT SHALL BE MAINTAINED DURING THE LIFE OF THE CONSTRUCTION SO AS TO FUNCTION AS THEY WERE ORIGINALLY DESIGNED AND CONSTRUCTED.
12. PERMANENT EROSION CONTROL: THE EROSION CONTROL FACILITIES OF THE PROJECT SHOULD BE DESIGNED TO MINIMIZE THE IMPACT ON THE OFFSITE FACILITIES.
13. PERMANENT SODDING: ALL AREAS WHICH HAVE BEEN DISTURBED BY CONSTRUCTION WILL, AS A MINIMUM, BE SODDED. THE SOD MUST PROVIDE BOTH LONG–TERM VEGETATION AND RAPID GROWTH SEASONAL VEGETATION.

STRUCTURAL PRACTICES

1. TEMPORARY DIVERSION DIKE: TEMPORARY DIVERSION DIKES MAY BE USED TO DIVERT RUNOFF THROUGH A SEDIMENT–TRAPPING FACILITY.
2. TEMPORARY SEDIMENT TRAP: A SEDIMENT TRAP IS USUALLY INSTALLED IN A DRAINAGE WAY AT A STORM DRAIN INLET OR AT OTHER POINTS OF DISCHARGE FROM A DISTURBED AREA WITH THE FOLLOWING LIMITATIONS:
   A. THE SEDIMENT TRAP MAY BE CONSTRUCTED EITHER INDEPENDENTLY OR IN CONJUNCTION WITH A TEMPORARY DIVERSION DIKE.
3. OUTLET PROTECTION: APPLICABLE TO THE OUTLETS OF ALL PIPES AND PAVED CHANNEL SECTIONS WHERE THE VELOCITY OF FLOW AT DESIGN CAPACITY OF THE OUTLET WILL EXCEED THE PERMISSIBLE VELOCITY OF THE RECEIVING CHANNEL OR AREA.

OTHER CONTROLS

WASTE DISPOSAL

WASTE MATERIALS

ALL WASTE MATERIALS EXCEPT LAND CLEARING DEBRIS SHALL BE COLLECTED AND STORED IN A SECURELY LIDDED METAL DUMPSTER. THE DUMPSTER WILL MEET ALL LOCAL AND STATE SOLID WASTE MANAGEMENT REGULATIONS. THE DUMPSTER WILL BE EMPTIED AS NEEDED AND THE TRASH WILL BE HAULED TO A STATE APPROVED LANDFILL. ALL PERSONNEL WILL BE INSTRUCTED REGARDING THE CORRECT PROCEDURE FOR WASTE DISPOSAL. NOTICES STATING THESE PRACTICES WILL BE POSTED AT THE CONSTRUCTION SITE BY THE CONSTRUCTION SUPERINTENDENT, THE INDIVIDUAL WHO MANAGES THE DAY–TO–DAY SITE OPERATIONS, WILL BE RESPONSIBLE FOR SEEING THAT THESE PROCEDURES ARE FOLLOWED.

HAZARDOUS WASTE

ALL HAZARDOUS WASTE MATERIALS WILL BE DISPOSED OF IN THE MANNER SPECIFIED BY LOCAL OR STATE REGULATION OR BY THE MANUFACTURER. SITE PERSONNEL WILL BE INSTRUCTED IN THESE PRACTICES AND THE SITE SUPERINTENDENT, THE INDIVIDUAL WHO MANAGES DAY–TO–DAY SITE OPERATIONS, WILL BE RESPONSIBLE FOR SEEING THAT THESE PRACTICES ARE FOLLOWED.

SANITARY WASTE

ALL SANITARY WASTE WILL BE COLLECTED FROM THE PORTABLE UNITS AS NEEDED TO PREVENT POSSIBLE SPILLAGE. THE WASTE WILL BE COLLECTED AND DISPOSED OF IN ACCORDANCE WITH STATE AND LOCAL WASTE DISPOSAL REGULATIONS FOR SANITARY SEWER OR SEPTIC SYSTEMS.

OFFSITE VEHICLE TRACKING

A STABILIZED CONSTRUCTION ENTRANCE WILL BE PROVIDED TO HELP REDUCE VEHICLE TRACKING OF SEDIMENTS. THE PAVED AREA ADJACENT TO THE SITE ENTRANCE WILL BE SWEPT DAILY TO REMOVE ANY EXCESS MUD, DIRT OR ROCK TRACKED FROM THE SITE. DUMP TRUCKS HAULING MATERIAL FROM THE CONSTRUCTION SITE WILL BE COVERED WITH A TARP.

INVENTORY FOR POLLUTION PREVENTION PLAN

THE MATERIAL OR SUBSTANCES LISTED BELOW ARE EXPECTED TO BE PRESENT ONSITE DURING CONSTRUCTION:

CONCRETE	FERTILIZERS	WOOD
ASPHALT	PETROLEUM BASED PRODUCTS	STEEL
TAR	CLEANING SOLVENTS	ALUMINUM
	PAINTS	

SPILL PREVENTION

MATERIAL MANAGEMENT PRACTICES

THE FOLLOWING ARE THE MATERIAL MANAGEMENT PRACTICES THAT WILL BE USED TO REDUCE THE RISK OF SPILLS OR OTHER ACCIDENTAL EXPOSURE OF MATERIALS AND SUBSTANCES TO STORM WATER RUNOFF.

GOOD HOUSEKEEPING

THE FOLLOWING GOOD HOUSEKEEPING PRACTICES WILL BE FOLLOWED ONSITE DURING THE CONSTRUCTION PROJECT.

AN EFFORT WILL BE MADE TO STORE ONLY ENOUGH PRODUCT REQUIRED TO DO THE JOB.

ALL MATERIALS STORED ONSITE WILL BE STORED IN A NEAT, ORDERLY MANNER IN THEIR APPROPRIATE CONTAINERS AND, IF POSSIBLE, UNDER A ROOF OR OTHER ENCLOSURE.

PRODUCTS WILL BE KEPT IN THEIR ORIGINAL CONTAINERS WITH THE ORIGINAL MANUFACTURER'S LABEL.

SUBSTANCES WILL NOT BE MIXED WITH ONE ANOTHER UNLESS RECOMMENDED BY THE MANUFACTURER.

WHENEVER POSSIBLE, ALL OF A PRODUCT WILL BE USED UP BEFORE DISPOSING OF THE CONTAINER.

MANUFACTURER'S RECOMMENDATIONS FOR PROPER USE AND DISPOSAL WILL BE FOLLOWED.

THE SITE SUPERINTENDENT WILL INSPECT DAILY TO ENSURE MATERIALS ONSITE RECEIVE PROPER USE AND DISPOSAL.

HAZARDOUS PRODUCTS

THESE PRACTICES ARE USED TO REDUCE THE RISKS ASSOCIATED WITH HAZARDOUS MATERIALS.

PRODUCTS WILL BE KEPT IN ORIGINAL CONTAINERS UNLESS THEY ARE NOT RESEALABLE.

ORIGINAL LABELS AND MATERIAL SAFETY DATA WILL BE RETAINED; THEY CONTAIN IMPORTANT PRODUCT INFORMATION.

IF SURPLUS PRODUCT MUST BE DISPOSED OF MANUFACTURER'S OR LOCAL AND STATE RECOMMENDED METHODS FOR PROPER DISPOSAL WILL BE FOLLOWED.

PRODUCT SPECIFIC PRACTICES

THE FOLLOWING PRODUCT SPECIFIC PRACTICES WILL BE FOLLOWED ONSITE:

PETROLEUM PRODUCTS

ALL ONSITE VEHICLES WILL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTATIVE MAINTENANCE TO REDUCE THE CHANCE OF LEAKAGE. PETROLEUM PRODUCTS WILL BE STORED IN TIGHTLY SEALED CONTAINERS WHICH ARE CLEARLY LABELED. ANY ASPHALT SUBSTANCES USED ONSITE WILL BE APPLIED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.

FERTILIZERS

FERTILIZERS USED WILL BE APPLIED ONLY IN THE MINIMUM AMOUNTS RECOMMENDED BY THE MANUFACTURER. ONCE APPLIED, FERTILIZER WILL BE WORKED INTO THE SOIL TO LIMIT EXPOSURE TO STORM WATER. STORAGE WILL BE IN A COVERED AREA. THE CONTENTS OF ANY PARTIALLY USED BAGS OF FERTILIZER WILL BE TRANSFERRED TO A SEALABLE PLASTIC BIN TO AVOID SPILLS.

PAINTS

ALL CONTAINERS WILL BE TIGHTLY SEALED AND STORED WHEN NOT REQUIRED FOR USE. EXCESS PAINT WILL NOT BE DISCHARGED TO THE STORM SEWER SYSTEM BUT WILL BE PROPERLY DISPOSED OF ACCORDING TO MANUFACTURERS' INSTRUCTIONS OR STATE AND LOCAL REGULATIONS.

CONCRETE TRUCKS

CONCRETE TRUCKS WILL NOT BE ALLOWED TO WASH OUT OR DISCHARGE SURPLUS CONCRETE OR DRUM WASH WATER TO DITCHES, PONDS OR OTHER WATERWAYS. WASHWATER SHALL BE COLLECTED IN A TEMPORARY SETTLING POND.

SPILL CONTROL PRACTICES

IN ADDITION TO THE GOOD HOUSEKEEPING AND MATERIAL MANAGEMENT PRACTICES DISCUSSED IN THE PREVIOUS SECTIONS OF THIS PLAN, THE FOLLOWING PRACTICES WILL BE FOLLOWED FOR SPILL PREVENTION AND CLEANUP:

MANUFACTURERS' RECOMMENDED METHODS FOR SPILL CLEANUP WILL BE CLEARLY POSTED ON SITE AND SITE PERSONNEL WILL BE MADE AWARE OF THE METHODS AND POSTED LOCATION.

MATERIALS AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE MATERIAL STORAGE AREA ONSITE. EQUIPMENT AND MATERIALS WILL INCLUDE, BUT NOT BE LIMITED TO BROOMS, DUST PANS, MOPS, RAGS, GLOVES, GOGGLES, LIQUID ABSORBENT (I.e. KITTY LITTER OR EQUAL), SAND SAWDUST, AND PLASTIC AND METAL TRASH CONTAINERS SPECIFICALLY FOR THIS PURPOSE.

ALL SPILLS WILL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY BY THE KENNEDY SPACE CENTER SPILL RECOVERY TEAM.

THE SPILL AREA WILL BE KEPT WELL VENTILATED AND PERSONNEL WILL WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT INJURY FROM CONTACT WITH A HAZARDOUS SUBSTANCE.

SPILL OF TOXIC OR HAZARDOUS MATERIAL WILL BE REPORTED IMMEDIATELY TO THE CONTRACTING OFFICER.

THE SPILL PREVENTION PLAN WILL BE ADJUSTED TO INCLUDE MEASURES TO PREVENT THIS TYPE OF SPILL FROM REOCCURRING AND HOW TO CLEAN UP THE SPILL IF THERE IS ANOTHER ONE. A DESCRIPTION OF THE SPILL, WHAT CAUSED IT, AND THE CLEANUP MEASURES WILL ALSO BE INCLUDED.

THE SITE SUPERINTENDENT RESPONSIBLE FOR THE DAY–TO–DAY SITE OPERATIONS, WILL BE THE SPILL PREVENTION AND CLEANUP COORDINATOR. HE/SHE WILL DESIGNATE AT LEAST ONE OTHER SITE PERSONNEL, WHO WILL RECEIVE SPILL PREVENTION AND CLEANUP TRAINING. THESE INDIVIDUALS WILL EACH BECOME RESPONSIBLE FOR A PARTICULAR PHASE OF PREVENTION AND CLEANUP, THE NAMES OF RESPONSIBLE SPILL PERSONNEL WILL BE POSED IN THE MATERIAL STORAGE AREA AND IF APPLICABLE, IN THE OFFICE TRAILER ONSITE.

MAINTENANCE/INSPECTION PROCEDURES

EROSION AND SEDIMENT CONTROL INSPECTION AND MAINTENANCE PRACTICES

THE FOLLOWING ARE INSPECTION AND MAINTENANCE PRACTICES THAT WILL BE USED TO MAINTAIN EROSION AND SEDIMENT CONTROLS.

NO MORE THAN 1 ACRE OF THE SITE WILL BE CLEARED AT ONE TIME WITHOUT WRITTEN PERMISSION FROM THE ENGINEER AND CONTRACTING OFFICER.

ALL CONTROL MEASURES WILL BE INSPECTED BY A CERTIFIED SUPERINTENDENT, THE PERSON RESPONSIBLE FOR THE DAY–TO–DAY SITE OPERATION OR SOMEONE APPOINTED BY THE SUPERINTENDENT, AT LEAST ONCE A WEEK AND WITHIN 24 HOURS OF THE END OF ANY STORM EVENT OF 0.50" OR GREATER.

ALL TURBIDITY CONTROL MEASURES WILL BE MAINTAINED IN WORKING ORDER; IF A REPAIR IS NECESSARY, IT WILL BE INITIATED WITHIN 24 HOURS OF REPORT.

BUILT UP SEDIMENT WILL BE REMOVED FROM SILT FENCE WHEN IT HAS REACHED ONE–THIRD THE HEIGHT OF THE FENCE.

SILT FENCE WILL BE INSPECTED FOR DEPTH OF SEDIMENT, TEARS, TO SEE IF THE FABRIC IS SECURELY ATTACHED TO THE FENCE POSTS, AND TO SEE THAT THE FENCE POSTS ARE FIRMLY IN THE GROUND.

THE SEDIMENT BASINS WILL BE INSPECTED FOR DEPTH OF SEDIMENT, AND BUILT UP SEDIMENT WILL BE REMOVED WHEN IT REACHES 10 PERCENT OF THE DESIGN CAPACITY OR AT THE END OF THE JOB.

DIVERSION DIKES/SWALES WILL BE INSPECTED AND ANY BREACHES PROMPTLY REPAIRED.

TEMPORARY AND PERMANENT SEEDING AND PLANTING WILL BE INSPECTED FOR BARE SPOTS, WASHOUTS, AND HEALTHY GROWTH.

A MAINTENANCE INSPECTION REPORT WILL BE MADE AFTER EACH INSPECTION. COPY OF THE REPORT FORM TO BE COMPLETED BY THE INSPECTOR IS ATTACHED. THE REPORTS WILL BE KEPT ON SITE DURING CONSTRUCTION AND AVAILABLE UPON REQUEST TO THE OWNER, ENGINEER OR ANY FEDERAL, STATE, AND LOCAL AGENCY APPROVING SEDIMENT AND EROSION PLANS, OR STORM WATER MANAGEMENT PLANS. THE REPORTS SHALL BE MADE AND RETAINED AS PART OF THE STORM WATER POLLUTION PREVENTION PLAN FOR AT LEAST THREE YEARS FROM THE DATE THAT THE SITE IS FINALLY STABILIZED AND THE NOTICE OF TERMINATION IS SUBMITTED. THE REPORTS SHALL IDENTIFY ANY INCIDENTS OF NON–COMPLIANCE.

THE SITE SUPERINTENDENT WILL SELECT UP TO THREE CERTIFIED INDIVIDUALS WHO WILL BE RESPONSIBLE FOR INSPECTIONS, MAINTENANCE AND REPAIR ACTIVITIES, AND FILLING OUT THE INSPECTION AND MAINTENANCE REPORT.

PERSONNEL SELECTED FOR INSPECTION AND MAINTENANCE RESPONSIBILITIES WILL RECEIVE TRAINING FROM THE SITE SUPERINTENDENT. AND MUST ENFORCE THE FDEP NPDES SWPPP FOR THIS PROJECT. THEY WILL BE TRAINED IN ALL THE INSPECTION AND MAINTENANCE PRACTICES NECESSARY FOR KEEPING THE EROSION AND SEDIMENT CONTROLS USED ONSITE IN WORKING ORDER.

NON–STORM WATER DISCHARGES

IT IS EXPECTED THAT THE FOLLOWING NON–STORM WATER DISCHARGES WILL OCCUR FROM THE SITE DURING THE CONSTRUCTION PERIOD.

WATER FROM WATER LINE FLUSHING.

PAVEMENT WASH WATERS (WHERE NO SPILLS OR LEAKS OF TOXIC OR HAZARDOUS MATERIALS HAVE OCCURRED).

GROUNDWATER (FROM DEWATERING EXCAVATION).

ALL NON–STORM WATER DISCHARGES WILL BE DIRECTED TO THE SEDIMENT BASIN OR OTHER APPROPRIATE AREA PRIOR TO DISCHARGE TO EXISTING DITCHES OR WETLANDS.

CONTRACTORS CERTIFICATION

I CERTIFY UNDER PENALTY OF LAW THAT I UNDERSTAND THE TERMS AND CONDITIONS OF THE GENERAL NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT THAT AUTHORIZES THE STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY FROM THE SITE IDENTIFIED AS PART OF THIS CERTIFICATION.

SIGNATURE	BUSINESS NAME & ADDRESS OF CONTRACTOR, ALL SUBS	RESPONSIBLE FOR/DUTIES
		GENERAL CONTRACTOR
		SUBCONTRACTOR
		SUBCONTRACTOR
		SUBCONTRACTOR
		SUBCONTRACTOR

THIS SPACE RESERVED

SYM	ZONE	DESCRIPTION	DATE	APPROVED

REVISIONS

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SIGNATURES	DATE
DRAWN C. COFFEY	06/10/13
CHECKED K. RIVERA	06/10/13
SUBMITTED J. BELL (signature)	06/10/13
ST of LICENSURE: FL LICENSE NO: 69033	06/10/13
APPROVED D. TOTH (signature)	6/10/13
I. OTERO (signature)	JUN 12/13

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

CLOSE/DEMOLISH FACILITIES AND STRUCTURES, VARIOUS LOCATIONS, PACKAGE 1

STORMWATER POLLUTION PREVENTION PLAN NOTES

FILE NO.	SIZE	DWG. NO.	REV
	F	79K39389	

PROJ. NO. 97963.9 SHEET 5

C1

FILE: \\titusmdi01\drafting\14000 Nasa\212-01_Design-Close-Demo-Var-Facs-FY13&14\Contract Drawings\Package 1\General\14000212P1-C01.dwg PRINTED: 6/10/2013 2:11 PM, BY USER: Kristian Perez LAST MODIFIED: 5/13/2013 2:51 PM, BY USER: CCoffey

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SEDIMENT AND EROSION CONTROL NOTES

1. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING SILT FROM THE SITE IF NOT ALL REUSABLE ON–SITE AND ASSURING PLAN ALIGNMENT AND GRADE IN ALL DITCHES AND SWALES AT COMPLETION OF CONSTRUCTION.

2. THE SITE CONTRACTOR IS RESPONSIBLE FOR REMOVING THE TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES AFTER COMPLETION OF CONSTRUCTION AND ONLY WHEN AREAS HAVE BEEN STABILIZED.

3. ADDITIONAL PROTECTION – ON–SITE PROTECTION IN ADDITION TO THE ABOVE MUST BE PROVIDED THAT WILL NOT PERMIT SILT TO LEAVE THE PROJECT CONFINES DUE TO UNSEEN CONDITIONS OR ACCIDENTS.

4. CONTRACTOR SHALL INSURE THAT ALL DRAINAGE STRUCTURES, PIPES, ETC. ARE CLEANED OUT AND WORKING PROPERLY AT TIME OF ACCEPTANCE.

5. WIRE MESH SHALL BE LAID OVER THE DROP INLET SO THAT THE WIRE EXTENDS A MINIMUM IF 12" BEYOND EACH SIDE OF THE INLET STRUCTURE. HARDWARE CLOTH OR COMPARABLE WIRE MESH WITH 3/8" OPENINGS SHALL BE USED. IF MORE THAN ONE STRIP OF MESH IS NECESSARY, THE STRIPS SHALL BE OVERLAPPED.

6. FDOT NO.1 COARSE AGGREGATE SHALL BE PLACED OVER THE WIRE MESH AS INDICATED ON SEDIMENT FILTER DETAIL (SEE DETAIL THIS SHEET). THE DEPTH OF STONE SHALL BE AT LEAST 12" OVER THE ENTIRE INLET OPENING. THE STONE SHALL EXTEND BEYOND THE INLET OPENING AT LEAST 18" ON ALL SIDES.

7. IF THE STONE FILTER BECOMES CLOGGED WITH SEDIMENT SO THAT IT NO LONGER ADEQUATELY PERFORMS ITS FUNCTION, THE STONES MUST BE PULLED AWAY FROM THE INLET, CLEANED AND REPLACED.

8. SEDIMENT DEPOSITS SHALL BE REMOVED AFTER EACH RAINFALL IT MUST BE REMOVED WHEN THE LEVEL OF DEPOSITION REACHES APPROXIMATELY ONE–THIRD THE HEIGHT OF THE BARRIER.

9. ANY SEDIMENT DEPOSITS REMAINING IN PLACE, AFTER THE FILTER BARRIERS AND SILT FENCES ARE NO LONGER REQUIRED, SHALL BE DRESSED TO CONFORM TO THE EXISTING GRADE, PREPARED AND SEEDED.

10. SILT FENCES AND FILTER BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.

11. SHOULD THE FABRIC ON A SILT FENCE OR FILTER BARRIER DECOMPOSE OR SHOULD BECOME INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE AND THE BARRIER STILL BE NECESSARY, THE FABRIC SHALL BE REPLACED IMMEDIATELY.

12. THE STRUCTURE SHALL BE INSPECTED AFTER EACH RAIN AND REPAIRS MADE AS NEEDED.

13. SEDIMENT SHALL BE REMOVED AND THE TRAP RESTORED TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED 1/3 THE DESIGN DEPTH OF THE TRAP. REMOVED SEDIMENT SHALL BE DEPOSITED IN A SUITABLE AREA IN SUCH A MANNER THAT IT WILL NOT ERODE.

14. THE CONTRACTOR SHALL MAINTAIN A CLEAR PATH FOR ALL SURFACE WATER DRAINAGE STRUCTURES AND SWALES AS WELL AS PROVIDE MEASURES TO PREVENT SILTATION OF STORMWATER TREATMENT SYSTEMS AND CONTROL STRUCTURES DURING ALL PHASES OF CONSTRUCTION. THE CONTRACTOR SHALL UTILIZE WHATEVER MEANS NECESSARY TO MANAGE STORMWATER SUCH THAT IMPACT TO CONSTRUCTION IS MINIMIZED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK, INCLUDING PROVIDING EQUIPMENT, LABOR, FILL, ETC. NECESSARY TO REMEDIATE AND/OR RESTORE ALL AREAS IMPACTED BY EROSION, RUNOFF, AND STORMWATER.

15. FOR ADDITIONAL INFORMATION ON SEDIMENT AND EROSION CONTROL REFER TO "THE FLORIDA DEVELOPMENT MANUAL – A GUIDE TO SOUND LAND AND WATER MANAGEMENT" FROM THE STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION (F.D.E.R.) CHAPTER 6.

16. EROSION AND SEDIMENT CONTROL BARRIERS SHALL BE PLACED ADJACENT TO ALL WETLAND AREAS WHERE THERE IS POTENTIAL FOR DOWNSTREAM WATER QUALITY DEGRADATION. SEE DETAILS (THIS SHEET) FOR TYPICAL CONSTRUCTION.

17. SOD SHALL BE PLACED IN AREAS WHICH REQUIRE IMMEDIATE EROSION PROTECTION TO ENSURE WATER QUALITIES ARE MAINTAINED.

18. ANY DISCHARGE FROM DEWATERING ACTIVITY SHALL REMAIN ON–SITE AND IN A MANNER WHICH PREVENTS EROSION AND TRANSPORTATION OF SUSPENDED SOLIDS TO THE RECEIVING AREAS.

19. DEWATERING PUMPS SHALL NOT EXCEED THE CAPACITY OF THAT WHICH REQUIRES A CONSUMPTIVE USE PERMIT FROM THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT. IF THE DEWATERING ACTIVITIES ARE TO EXCEED THIS CAPACITY, THE CONTRACTOR SHALL CONTACT THE CONTRACTING OFFICER TO OBTAIN FORM RDS 50 AND SUBMIT THIS FORM TO THE CONTRACTING OFFICER.

20. ALL DEWATERING, EROSION, AND SEDIMENT CONTROL SHALL REMAIN IN PLACE UNTIL AFTER COMPLETION OF CONSTRUCTION, AND REMOVED ONLY WHEN AREAS HAVE BEEN STABILIZED.

21. ALL DISTURBED AREAS SHALL BE GRASSED, FERTILIZED AND MULCHED UNTIL A PERMANENT VEGETATIVE COVER IS ESTABLISHED. CONTRACTOR SHALL USE ADDITIONAL MEASURES TO STABILIZE DISTURBED AREAS THROUGH COMPACTION, SILT SCREENS, AND GRASSING. ALL FILL SLOPES 4:1 OR STEEPER TO RECEIVE STAKED SOLID SOD.

22. THIS PLAN INDICATES THE MINIMUM EROSION AND SEDIMENT MEASURES REQUIRED FOR THIS PROJECT. THE CONTRACTOR IS RESPONSIBLE FOR MEETING ALL APPLICABLE RULES, REGULATIONS AND WATER QUALITY GUIDELINES AND MAY NEED TO INSTALL ADDITIONAL CONTROLS.

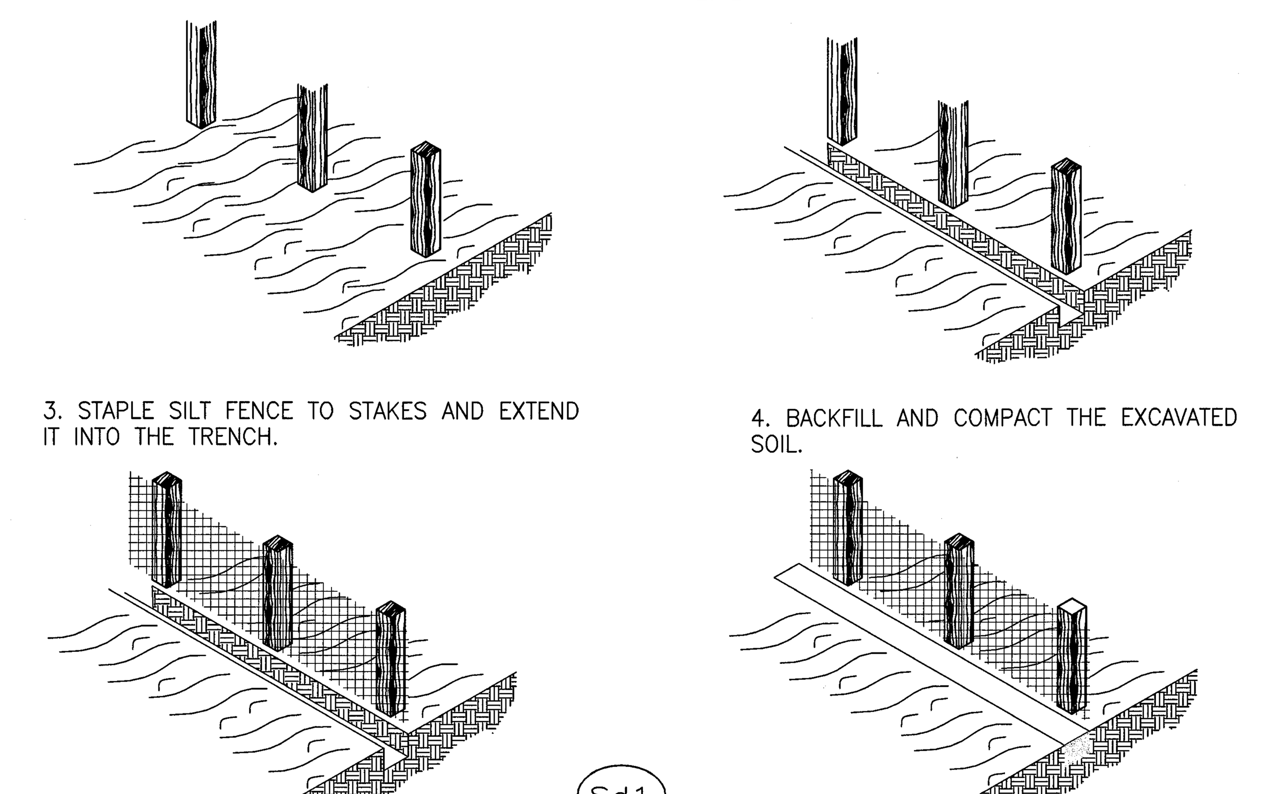
23. THE CONTRACTOR SHALL BE REQUIRED TO RESPOND TO ALL WATER MANAGEMENT DISTRICT INQUIRES, RELATIVE TO COMPLIANCE OF SJRWMD FOR EROSION AND SEDIMENTATION CONTROL. THE COST OF THIS COMPLIANCE SHALL BE PART OF THE CONTRACT.

24. THE CONTRACTOR IS RESPONSIBLE FOR FOLLOWING THE BEST EROSION AND SEDIMENT CONTROL PRACTICES AS OUTLINED IN THE PLANS AND SPECIFICATIONS AND THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT RULES AND REGULATIONS.

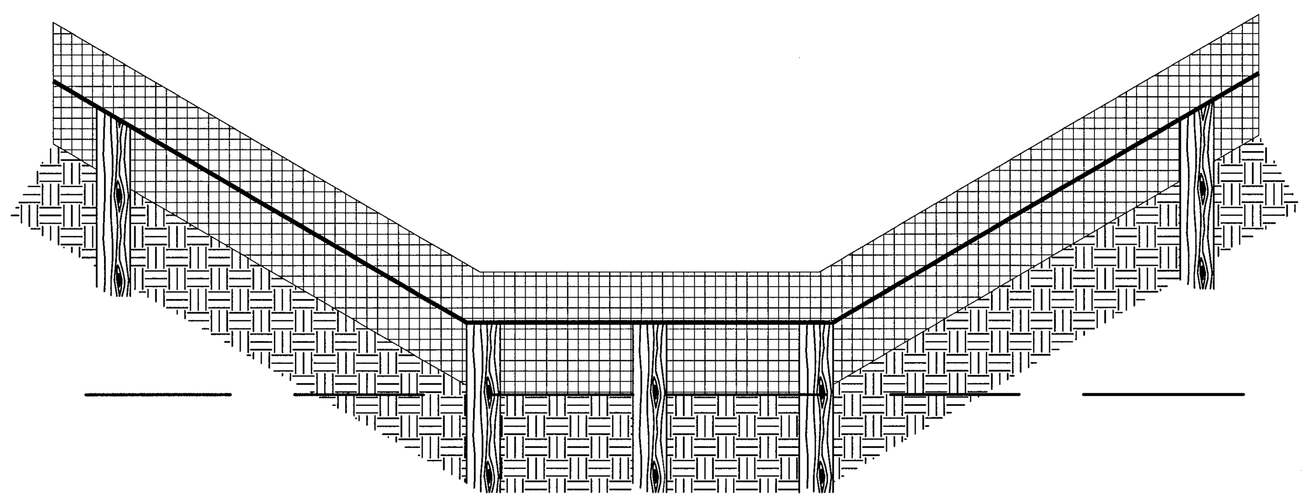
25. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING A PERMANENT STAND OF SOD AND/OR GRASS PER THE CONTRACT DOCUMENTS THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT AND BREVARD COUNTY STANDARDS AND MEETING THE NPDES FINAL STABILIZATION REQUIREMENTS.

26. THESE PLANS INCLUDING THE POLLUTION PREVENTION PLAN INDICATE THE MINIMUM EROSION & SEDIMENT CONTROL MEASURES REQUIRED FOR THIS PROJECT. CONTRACTOR AS REQUIRED TO INSURE CONFORMANCE TO STATE AND FEDERAL WATER QUALITY STANDARDS AND MAY NEED TO INSTALL ADDITIONAL CONTROLS TO CONFORM TO AGENCIES REQUIREMENTS. IF A WATER QUALITY VIOLATION OCCURS, THE CONTRACTOR SHALL BE WHOLLY RESPONSIBLE FOR ALL DAMAGE AND ALL COSTS WHICH MAY RESULT INCLUDING LEGAL FEES, CONSULTANT FEES, CONSTRUCTION COSTS, AND FINES.

27. 48 HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION, THE GOVERNMENT WILL SUBMIT A "NOTICE OF INTENT" TO THE FDEP IN ACCORDANCE WITH NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM RULES AND REGULATIONS.

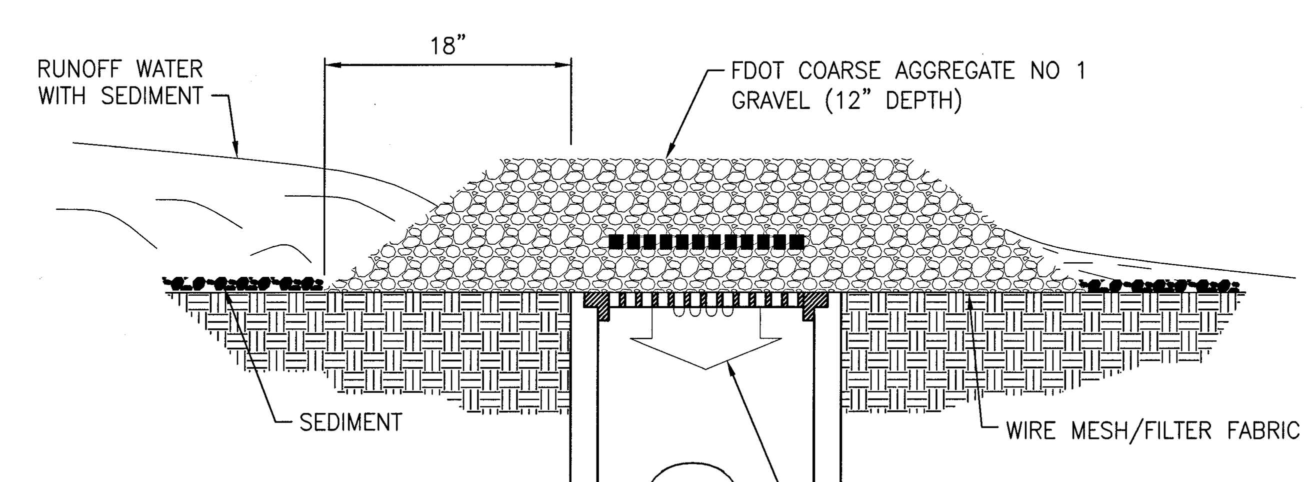


CONSTRUCTION OF A SILT FENCE
NTS

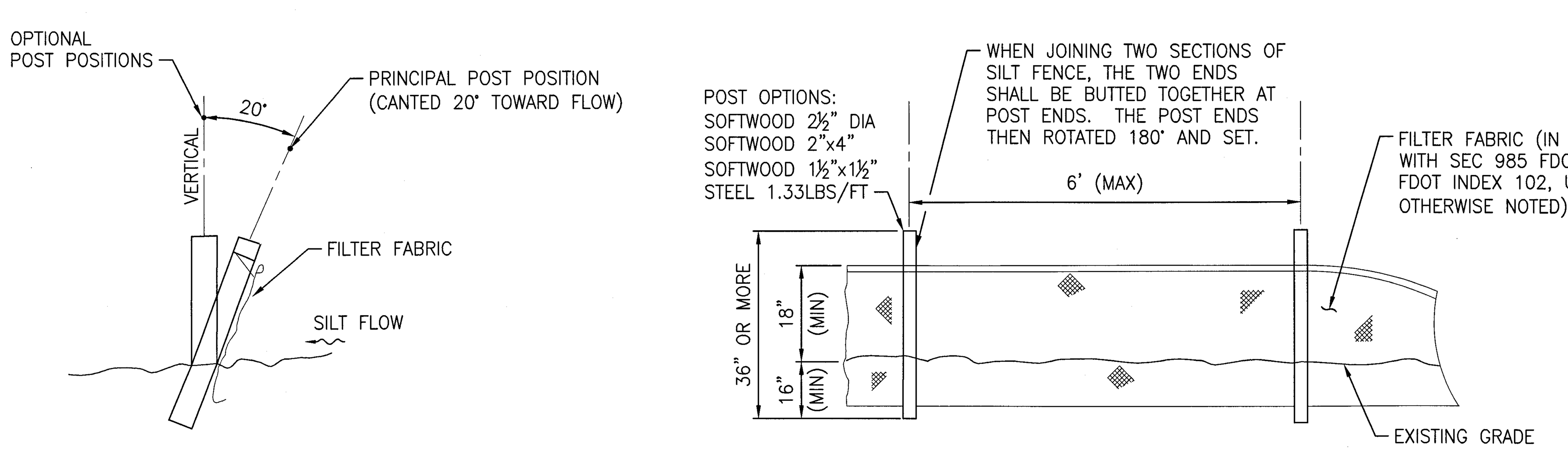


PROPER PLACEMENT OF A SILT FENCE IN A DRAINAGE WAY
NTS

Sd1



GRAVEL AND MESH DROP INLET SEDIMENT FILTER
NTS



Sd1

TYPICAL SILT FENCE
NTS

STORMWATER POLLUTION PREVENTION PLAN

INSPECTIONS MUST OCCUR AT LEAST ONCE A WEEK AND WITHIN 24 HOURS OF THE END OF A STORM EVENT THAT IS 0.50 INCHES OR GREATER

INSPECTOR: ______________________ FDEP NPDES STORMWATER IDENTIFICATION NUMBER: FLR10________

LOCATION	RAIN DATA	TYPE OF CONTROL (SEE BELOW)	DATE INSTALLED / MODIFIED	CURRENT CONDITION (SEE BELOW)	CORRECTIVE ACTION / OTHER REMARKS

CONDITION CODE:
G = GOOD M = MARGINAL, NEEDS MAINTENANCE OR REPLACEMENT SOON P = POOR, NEEDS IMMEDIATE MAINTENANCE OR REPLACEMENT
C = NEEDS TO BE CLEARED O = OTHER

CONTROL TYPE CODES

1. SILT FENCE	10. STORM DRAIN INLET PROTECTION	19. REINFORCED SOIL RETAINING SYSTEM	28. TREE PROTECTION
2. EARTH DIKES	11. VEGETATIVE BUFFER STRIP	20. GABION	29. DETENTION POND
3. STRUCTURAL DIVISION	12. VEGETATIVE PRESERVATION AREA	21. SEDIMENT BASIN	30. RETENTION POND
4. SWALE	13. RETENTION POND	22. TEMPORARY SEED / SOD	31. WASTE DISPOSAL / HOUSEKEEPING
5. SEDIMENT TRAP	14. CONSTRUCTION ENTRANCE STABILIZATION	23. PERMANENT SEED / SOD	32. DAM
6. CHECK DAM	15. PERIMETER DITCH	24. MULCH	33. SAND BAG
8. PIPE SLOPE DRAIN	16. CURB AND GUTTER	25. HAY BALES	34. OTHER
9. LEVEL SPREADERS	17. PAVED ROAD SURFACE	26. GEOTEXTILE	
9. LEVEL SPREADERS	18. ROCK OUTLET PROTECTION	27. RIP–RAP	

INSPECTOR INFORMATION:

NAME: ______________ QUALIFICATION ______________ DATE ________

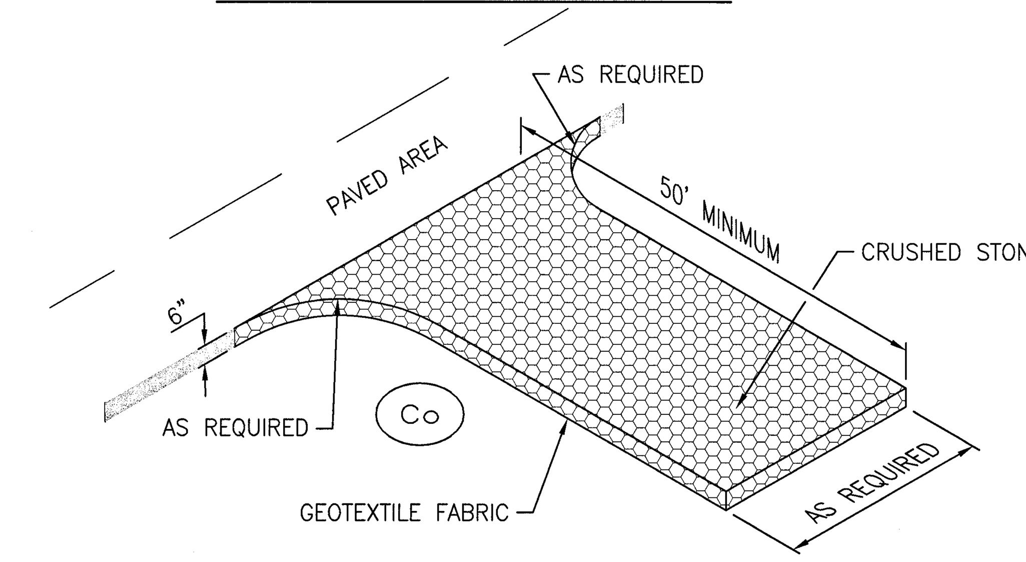
THE ABOVE SIGNATURE ALSO SHALL CERTIFY THAT THIS FACILITY IS IN COMPLIANCE WITH THE STORMWATER POLLUTION PREVENTION PLAN AND THE STATE OF FLORIDA GENERIC PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES IF THERE ARE NOT ANY INCIDENTS OF NON–COMPLIANCE IDENTIFIED ABOVE.

* * * * * *

"I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHERED AND EVALUATED THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS."

NAME (RESPONSIBLE AUTHORITY) ______________ ________

STANDARD SWPPP FORM



STABILIZED CONSTRUCTION ENTRANCE
NTS

SWPPP BMPS LEGEND

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Cd	CHECK DAM ROCK OR HAY BALE			A SMALL TEMPORARY BARRIER CONSTRUCTED ACROSS A SWALE, DRAINAGE DITCH, OR AREA OF CONCENTRATED FLOW. ROCK OR HAY BALE
Co	CONSTRUCTION EXIT			A CRUSHED STONE PAD WITH A GEOTEXTILE FILTER FABRIC BASE LOCATED AT THE CONSTRUCTION EXIT TO PROVIDE A PLACE FOR REMOVING MUD FROM TIRES THEREBY PROTECTING PUBLIC STREETS.
Di	DIVERSION			AN EARTH CHANNEL OR DIKE LOCATED ABOVE, BELOW, OR ACROSS A SLOPE TO DIVERT RUNOFF. THIS MAY BE A TEMPORARY OR PERMANENT STRUCTURE.
Sd1	SEDIMENT BARRIER			A BARRIER TO PREVENT SEDIMENT FROM LEAVING THE CONSTRUCTION SITE. IT MAY BE SANDBAGS, BALES OF STRAW OR HAY, GRAVEL, FLOATING TURBIDITY BARRIER OR A SEDIMENT FENCE. THE BARRIERS ARE USUALLY TEMPORARY AND IN– EXPENSIVE.
Sd2	GRAVEL AND WIRE MESH DROP INLET FILTER			COARSE AGGREGATE AND WIRE MESH W/ FILTER FABRIC RESTING ON TOP OF INLET. AGGREGATE AND WIRE MESH W/ FILTER FABRIC WILL FILTER RUNOFF AS IT ENTERS THE STORM STRUCTURE.
Sd3	SEDIMENT BASIN DETAIL			A BASIN CREATED BY EXCAVATION OR A DAM ACROSS A WATERWAY. THE SURFACE WATER RUNOFF IS TEMPORARILY STORED ALLOWING THE BULK OF THE SEDIMENT TO DROP OUT. THE BASIN IS USUALLY TEMPORARY BUT MAY BE DESIGNED AS A PERMANENT POND OR STORMWATER RETENTION DEVICE.
St	STORM DRAIN OUTLET PROTECTION			A PAVED OR SHORT SECTION OF RIP RAP CHANNEL AT THE OUTLET OF A STORM DRAIN SYSTEM PREVENTING EROSION FROM THE CONCENTRATED RUNOFF.
Su	SURFACE ROUGHENING			A ROUGH SOIL SURFACE WITH HORIZONTAL DEPRESSIONS ON A CONTOUR OR SLOPES LEFT IN A ROUGHENED CONDITION AFTER GRADING.

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REVISIONS

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SIGNATURES	DATE
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ST of LICENSURE: FL LICENSE NO: 69033	06/10/13
APPROVED D. TOTH	6/10/13
I. OTERO	JUN 12/13

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KENNEDY SPACE CENTER, FLORIDA

CLOSE/DEMOLISH FACILITIES AND STRUCTURES, VARIOUS LOCATIONS, PACKAGE 1 STORMWATER POLLUTION PREVENTION PLAN DETAILS AND FORM

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FILE NO. | SIZE F | DWG. NO. 79K39389 | REV
PROJ. NO. 97963.9 | SHEET 6

FILE: \\titusmdi01\drafting\14000 Nasa\212-01_Design-Close-Demo-Var-Facs-FY13&14\Contract Drawings\Package 1\General\14000212P1-C02.dwg PRINTED: 6/10/2013 2:11 PM, BY USER: Kristian Perez LAST MODIFIED: 1/3/2013 11:15 AM, BY USER: CCoffey

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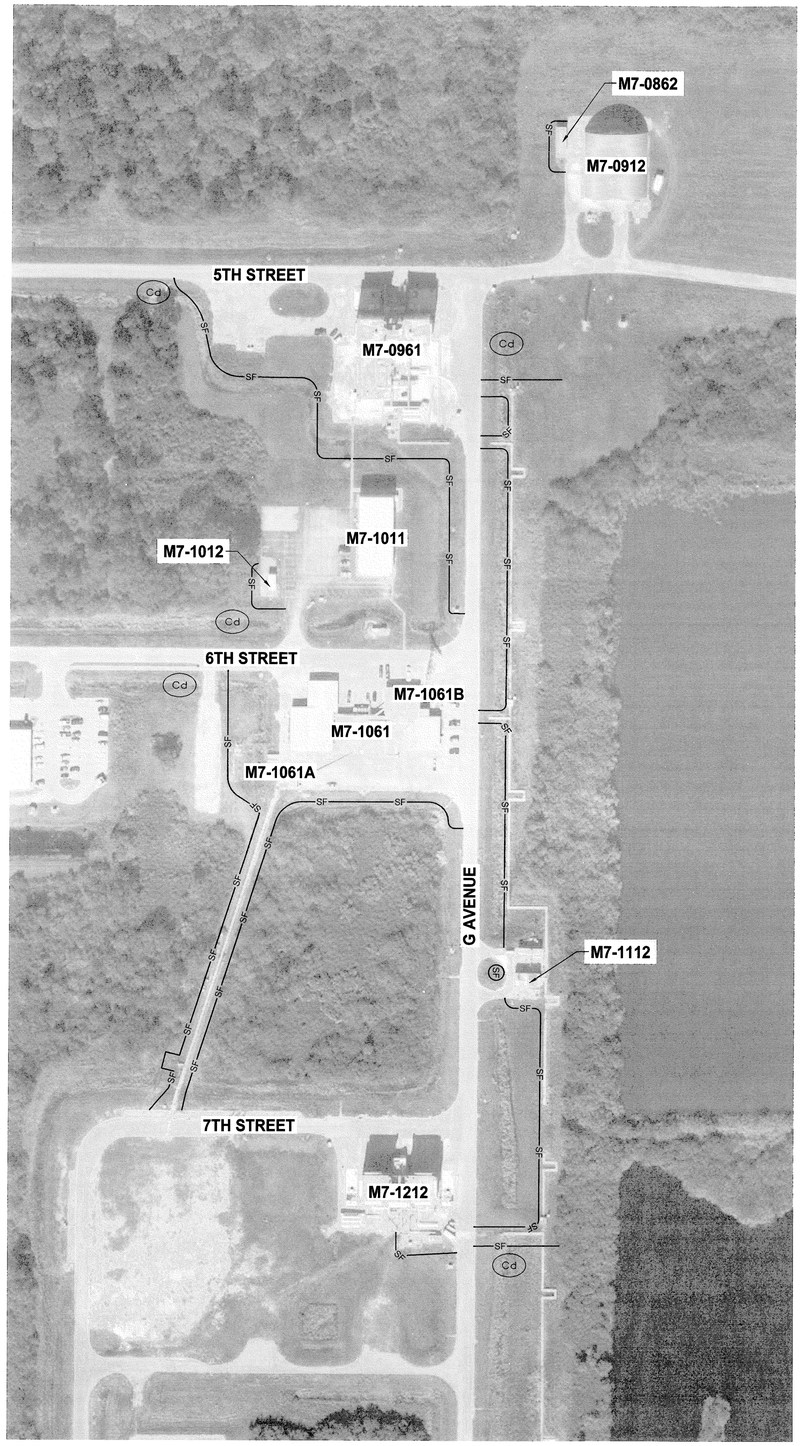

STORMWATER POLLUTION PREVENTION PLAN

1"=100'

GRAPHIC SCALE
0 50 100 200
SCALE IN FEET
1"=100'

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CLOSE/DEMOLISH FACILITIES AND STRUCTURES, VARIOUS LOCATIONS, PACKAGE 1

STORMWATER POLLUTION PREVENTION PLAN

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

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GENERAL NOTE

SURVEY INFORMATION SHOWN ON THE DRAWINGS WAS PROVIDED BY KUGELMANN LAND SURVEYING, INC. DATED DECEMBER 2012.

DEMOLITION NOTES

1. THE DEFINITION OF DEMOLITION SHALL INCLUDE REMOVAL AND PROPER DISPOSAL OF FACILITIES, UTILITIES, STRUCTURES, AND THEIR ASSOCIATED APPURTENANCES. DEMOLITION SHALL NOT BE CONSIDERED TO INCLUDE ABANDON-IN-PLACE. ITEMS TO BE ABANDONED-IN-PLACE WILL BE INDICATED AS SUCH.

2. UNLESS NOTED OTHERWISE, WITHIN AREA OF DEMOLITION, DEMOLISH AND REMOVE IMPROVEMENTS INCLUDING BUT NOT LIMITED TO THE FOLLOWING:

   A. BUILDINGS, STRUCTURES, WALLS, FENCES, SIGNS, STORAGE SHEDS, CONCRETE PEDESTALS, AND MANHOLES.
   B. CONCRETE CURB, CONCRETE MEDIANS, STAIRS, WALKWAYS AND WHEEL STOPS.
   C. CONCRETE FOUNDATIONS, STEPS, AND LOADING DOCKS.
   D. ELECTRICAL SYSTEMS INCLUDING LIGHTING, POWER, FIRE ALARMS, TELECOMMUNICATIONS, PAGING AND OTHER ELECTRICAL APPURTENANCES ASSOCIATED WITH MECHANICAL EQUIPMENT.
   E. MECHANICAL, AIR CONDITIONING AND OTHER EQUIPMENT AND APPURTENANCES, AND ALL UNDERGROUND AND ABOVE GROUND PIPING STORAGE TANKS AND CONDUITS.
   F. LANDSCAPING

3. LENGTHS MAY BE SHOWN ON THE DRAWINGS AND REFERENCES AS-BUILTS, HOWEVER, THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING ALL MATERIAL QUANTITIES PRIOR TO BIDDING.

4. THE CONTRACTOR SHALL VERIFY THAT ALL REQUIRED CLEARANCES CAN BE MET. IF ANY CANNOT BE MET NOTIFY THE CONTRACTING OFFICER 14 DAYS PRIOR TO SCHEDULED DEMOLITION.

5. AFTER OR UPON AWARD OF CONTRACT, THE OWNERSHIP OF THE FACILITIES, MATERIALS, EQUIPMENT AND ASSOCIATED ITEMS TO BE DEMOLISHED WILL BE TRANSFERRED FROM NASA TO THE DEMOLITION CONTRACTOR, WITH THE EXCEPTION OF THOSE IDENTIFIED ITEMS THAT ARE TO BE SALVAGED OR TURNED OVER TO THE GOVERNMENT.

6. ITEMS IDENTIFIED TO BE SALVAGED AND RETURNED TO THE GOVERNMENT SHALL BE REMOVED CAREFULLY IN ORDER TO MAINTAIN THEIR CONDITION FOR FUTURE USE. THESE ITEMS SHALL BE RELOCATED BY THE CONTRACTOR TO A LOCATION ON KENNEDY SPACE CENTER AS SPECIFIED BY THE CONTRACTING OFFICER.

7. CONTRACTOR SHALL NOT CLOSE OR OBSTRUCT STREETS, WALKS, OR OTHER ADJACENT OCCUPIED OR IN-USE FACILITIES WITHOUT PERMISSION FROM THE CONTRACTING OFFICER. PROVIDE ALTERNATE ROUTES AROUND CLOSED OR OBSTRUCTED TRAFFIC WAYS.

8. FACILITIES AND IMPROVEMENTS TO REMAIN SHALL BE CLEANED OF DUST, DIRT, AND DEBRIS CAUSED BY DEMOLITION OPERATIONS. RETURN ADJACENT AREAS TO PRE-CONSTRUCTION CONDITIONS BY PROJECT COMPLETION.

9. BACKFILL AND COMPACTION WORK SHALL PROVIDE THE SLOPE TO DRAIN PROPERLY. CONTRACTOR SHALL AVOID PONDING.

10. THE CONTRACTOR SHALL PROTECT EXISTING EQUIPMENT, SURFACES AND STRUCTURES TO REMAIN 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.

11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR BRACING, SHORING, OR PROVIDING OTHER MEANS NECESSARY TO PROTECT AND SUPPORT EXISTING UTILITIES AND STRUCTURES DURING CONSTRUCTION/DEMOLITION.

12. ALL EXISTING STORMWATER DRAINAGE PATTERNS AND CHANNELS SHALL BE MAINTAINED. THE CONTRACTOR SHALL NOTIFY THE CONTRACTING OFFICER 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.

13. 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 CONTRACTING OFFICER.

14. CONTRACTOR SHALL FILL ALL DISTURBED AREAS TO EXISTING ELEVATIONS, PLACE 3" OF TOPSOIL, GRADE THE SITE LEVEL, AND SOD ALL DISTURBED AREAS.

15. NO STAGING, DISMANTLING, OR CUTTING WILL BE PERMITTED ON KSC PROPERTY OUTSIDE THE LIMITS OF THE DEMOLITION AREA AND PERMITTED LAYDOWN AREAS. COORDINATE LAYDOWN AREAS WITH THE CO.

16. ALL CONSTRUCTION AND DEMOLITION DEBRIS SHALL BE REMOVED FROM THE PROJECT SITES BY THE CONTRACTOR WITHIN ONE WEEK OF REMOVAL FROM THE STRUCTURE OR ORIGINAL PLACE OF ORIGIN.

17. THE CONTRACTOR SHALL CUT FLUSH WITH ANY SURFACE TO REMAIN ANY ABANDONED PROTRUSIONS NOT SPECIFICALLY INDICATED IN THE PLANS, INCLUDING BUT NOT LIMITED TO CONDUIT, ANCHOR BOLTS, AND ANY OTHER ITEM. THE CONTRACTOR SHALL GROUT PENETRATIONS IN SLABS TO REMAIN.

18. THIS PROJECT HAS THE POTENTIAL TO IMPACT THREATENED, ENDANGERED, AND PROTECTED SPECIES. THE CONTRACTOR SHALL CONTACT THE CONTRACTING OFFICER AND NASA ENVIRONMENTAL 14 DAYS PRIOR TO DEMOLITION IN ORDER FOR THE GOVERNMENT TO PERFORM A BIOLOGICAL SURVEY.

19. ALL UTILITIES ARE NOT SHOWN IN THE DRAWINGS. THE CONTRACTOR SHALL BE COGNIZANT OF ABOVE AND BELOW GROUND OBSTRUCTIONS/UTILITIES THAT MAY AFFECT WORK. THE CONTRACTOR SHALL COORDINATE ALL DEMOLITION ACTIVITIES AND UTILITY DISCONNECTS AND OUTAGES WITH THE CONTRACTING OFFICER PRIOR TO COMMENCING DEMOLITION. THE CONTRACTOR SHALL HAND EXCAVATE ALL EXISTING UNDERGROUND PIPING CONNECTION AND DISCONNECTION POINTS TO DETERMINE THE LOCATION, MATERIAL, SIZE, JOINT LOCATION AND TYPE, AND CONDITION BEFORE SUBMITTING SHOP DRAWINGS FOR CONNECTING FITTINGS, ADAPTERS, ETC. THE CONTRACTOR SHALL PROVIDE THIS INFORMATION (INCLUDING FIELD MEASUREMENTS) WITH SHOP DRAWING SUBMITTALS. AT A MINIMUM, ALL WATER UTILITIES SHALL BE DEMOLISHED AND CAPPED AT THE CLOSEST MAIN, ALL SEWER UTILITIES SHALL BE DEMOLISHED AND CAPPED AT CLOSEST MAIN, MANHOLE OR LIFT STATION, ALL OTHER UTILITIES UNLESS OTHERWISE NOTED, SHALL BE DEMOLISHED AND CAPPED 18" BELOW GRADE, 5.0 LF HORIZONTALLY FROM THE EXISTING BUILDING FOOTPRINT. SEWER AND WATER LINES SHALL BE CAPPED WITH MATERIAL MATCHING THE PIPE MATERIAL.

20. PERSONAL PROPERTY SUCH AS DESKS, FURNITURE, DOOR LOCKS AND HANDLES WHICH ARE TO BE RETAINED BY THE GOVERNMENT WILL BE REMOVED BY THE GOVERNMENT BEFORE CONSTRUCTION BEGINS. ALL REMAINING ITEMS IN THE FACILITIES SHALL BE DISPOSED OF BY THE CONTRACTOR.

21. CONTRACTOR SHALL DRAIN, PURGE, AND/OR OTHERWISE REMOVE, COLLECT, AND DISPOSE OF CHEMICALS, GASES, REFRIGERANTS, HYDRAULIC FLUIDS, EXPLOSIVES, ACIDS, FLAMMABLES, HEAVY METALS, OR OTHER DANGEROUS MATERIALS OR ITEMS THAT MAY CONTAIN THOSE MATERIALS, INCLUDING BUT NOT LIMITED TO PRESSURE SWITCHES, AIR CONDITIONING UNITS, BALLAST TRANSFORMERS, LEAD FLASHING, FLUORESCENT LAMPS, HIGH INTENSITY DISCHARGE LAMPS, BATTERIES IN EXIT SIGNS AND EMERGENCY LIGHTING, ETC., BEFORE PROCEEDING WITH DEMOLITION OPERATIONS. DISPOSAL SHALL BE IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS AND THE CONTRACT DOCUMENTS.

22. BOLLARDS SHOWN TO BE REMOVED SHALL BE TAKEN TO A DESIGNATED LOCATION AT THE KSC LANDFILL FOR RE-USE. BOLLARDS SHALL BE REMOVED, HANDLED, AND STOCKPILED IN A MANNER TO PRESERVE CURRENT CONDITION.

23. CONTRACTOR SHALL ENSURE THAT MONITORING WELLS LOCATED AT VARIOUS LOCATIONS ARE PROTECTED, LEFT UNDISTURBED, AND KEPT IN WORKING ORDER.

24. WATER REMAINING IN THE HIGH TEMPERATURE HOT WATER LINES SHALL BE COLLECTED BY THE CONTRACTOR AND DISCHARGED TO THE SANITARY SEWER ONLY.

25. NEW TRAFFIC STRIPING AND MARKING SHALL BE IN ACCORDANCE WITH FDOT SPECIFICATIONS, SECTION 710.

26. THE CONTRACTOR SHALL REQUEST THROUGH THE CO THAT ALL OXIDIZER AND HYPERGOL SYSTEMS BE CHECKED FOR CONTAMINATION 30 DAYS PRIOR TO THE START OF CONSTRUCTION ACTIVITY. FACILITIES WITH THESE SYSTEMS INCLUDE M7-0961.

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CHECKED K. RIVERA	06/10/13
SUBMITTED M. BELL	06/10/13
ST of LICENSURE: FL LICENSE NO: 69033	06/10/13
APPROVED D. TOTH	6/11/13
I. OTERO	JUN 12/13

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CLOSE/DEMOLISH FACILITIES AND STRUCTURES, VARIOUS LOCATIONS, PACKAGE 1

GENERAL NOTES

FILE NO.	SIZE	DWG. NO.	REV
	F	79K39389	
PROJ. NO. 97963.9		SHEET 8	

D1

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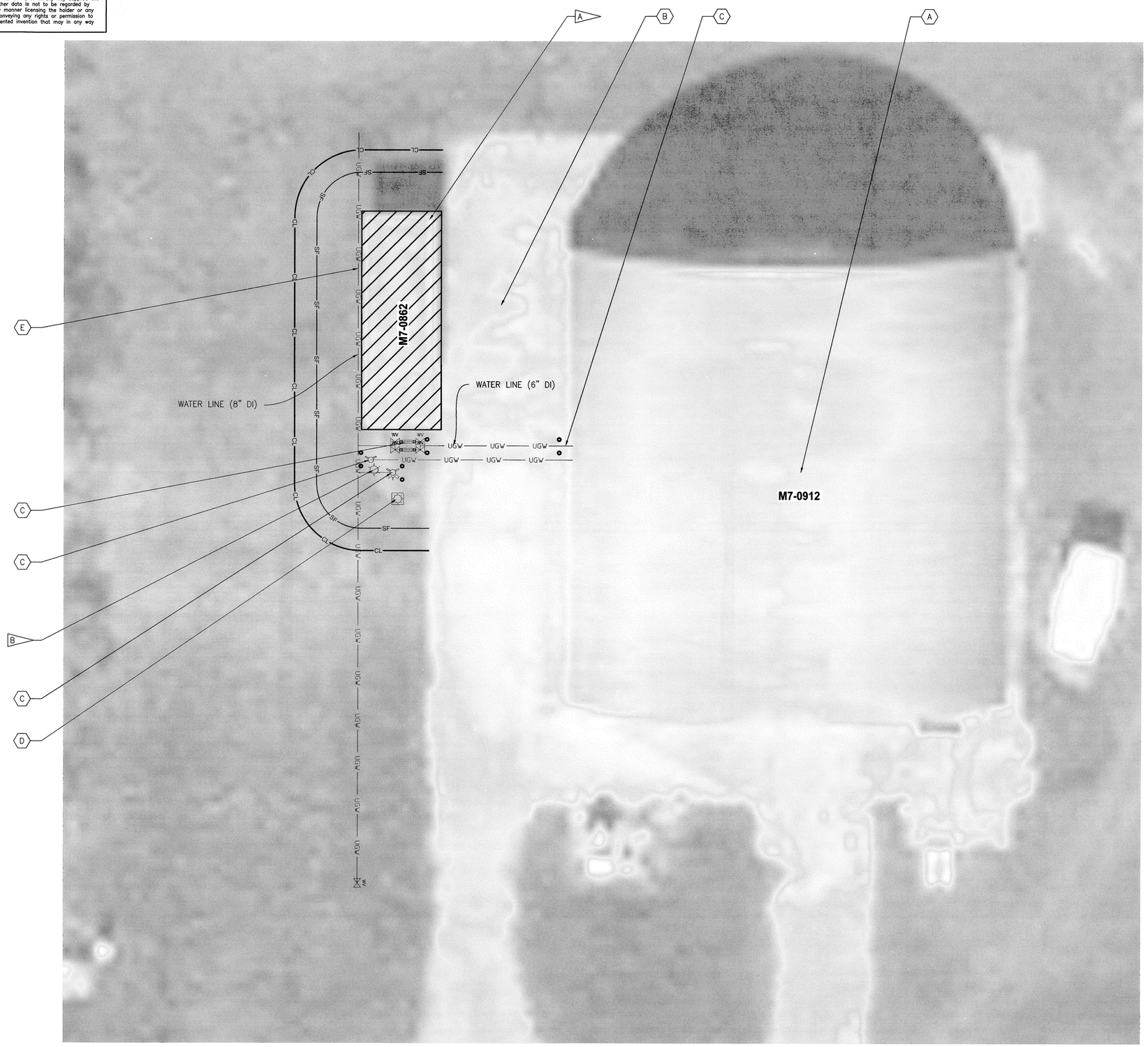

FLAG NOTES

A — DEMOLISH HAZARDOUS WASTE STAGING SHELTER (M7-0862), FOUNDATION, AND ASSOCIATED APPURTENANCES 1/D62 2/D62 3/D62 4/D62

B — DEMOLISH METAL POLE AND ASSOCIATED APPURTENANCES 3/D62 4/D62

TO REMAIN

A — BUILDING M7-0912 2/D62 5/D62

B — ASPHALT/CONCRETE PAVEMENT 1/D62 3/D62 4/D62 5/D62

C — FIRE DEPARTMENT CONNECTION, HYDRANT, BOLLARDS, VALVES, BACKFLOW PREVENTERS, PIPING, AND ASSOCIATED APPURTENANCES 1/D62 2/D62 3/D62 4/D62 5/D62

D — CONCRETE LIGHT POLE 3/D62

E — WATER LINE

SITE PLAN BUILDING M7-0862

1"=10'

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

N

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APPROVED D. TOTH	6/10/13
I. OTERO	2013 10/13

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CLOSE/DEMOLISH FACILITIES AND STRUCTURES, VARIOUS LOCATIONS, PACKAGE 1

SITE PLAN BUILDING M7-0862

FILE NO.	SIZE	DWG. NO.	REV
	F	79K39389	
PROJ. NO. 97963.9		SHEET 9	

D2

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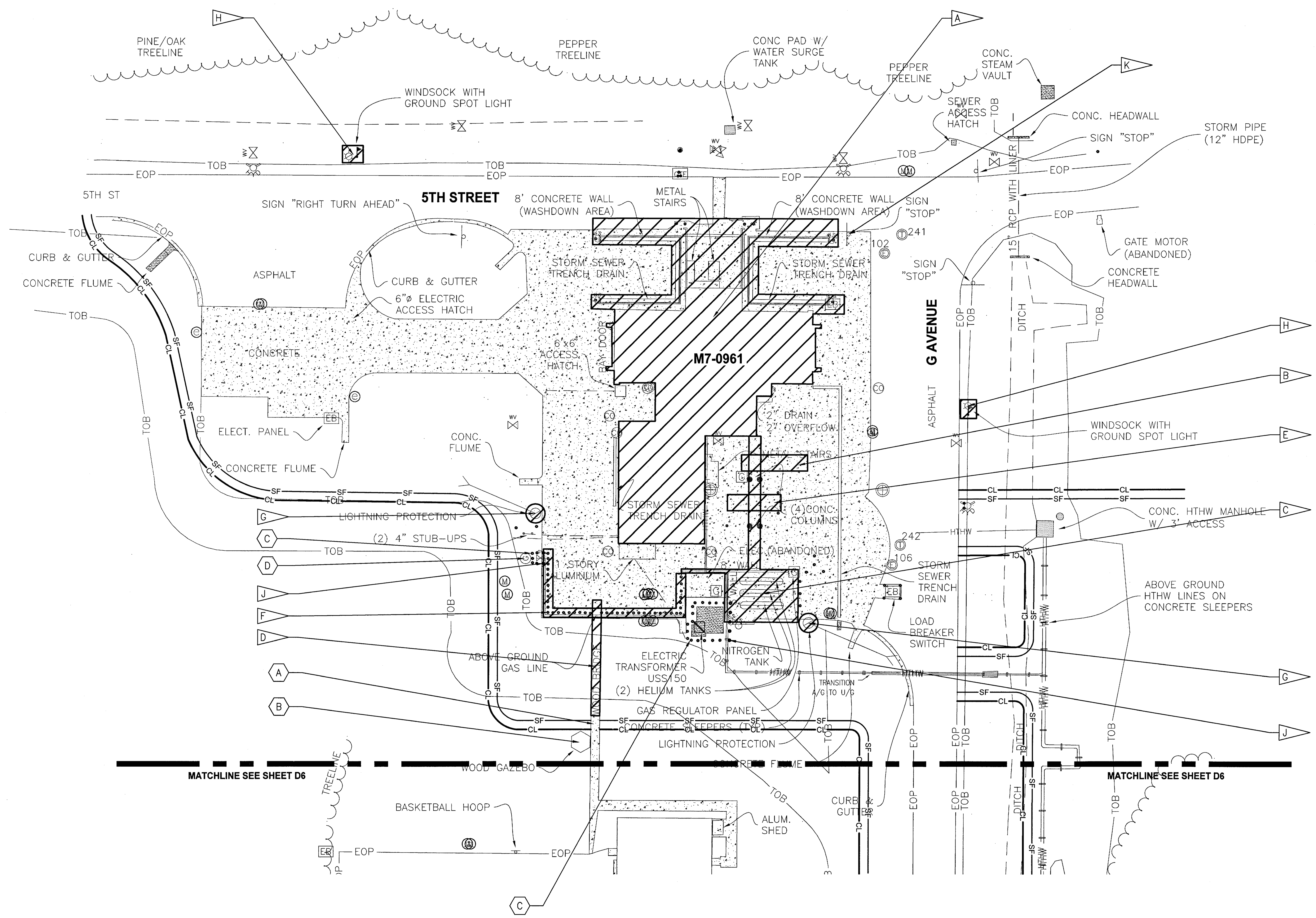

SITE PLAN BUILDING M7-0961

1"=30'

GRAPHIC SCALE

0 15 30 60

SCALE IN FEET
1"=30'

-N-

FLAG NOTES

- A — DEMOLISH HYPERGOL MODULE PROCESSING BUILDING, NORTH (M7-0961), FOUNDATION, CONCRETE SLABS, AND ASSOCIATED APPURTENANCES 1/D63, 2/D63, 3/D63, 4/D63, 8/D63
- B — DEMOLISH COMPRESSED AIR TANKS, CONCRETE PADS, AND ASSOCIATED APPURTENANCES 4/D63
- C — DEMOLISH GAS TANKS, CONCRETE WALL, CABLE TRAY, AND ASSOCIATED APPURTENANCES 8/D63
- D — DEMOLISH WOOD BRIDGE 7/D63
- E — DEMOLISH HVAC EQUIPMENT, PIPING, AND CONCRETE PADS 4/D63
- F — DEMOLISH BOLLARDS AND ASSOCIATED APPURTENANCES 3/D63, 7/D63
- G — DEMOLISH LIGHTNING PROTECTION TOWERS AND ASSOCIATED APPURTENANCES 2/D63, 8/D63
- H — DEMOLISH WINDSOCK, GROUND SPOT LIGHT, AND ASSOCIATED APPURTENANCES 9/D63
- J — INSTALL SEVEN (7) BOLLARDS 3/D69
- K — RELOCATE STOP SIGN. SEE PAVEMENT PLAN ON SHEET D4.

TO REMAIN

- A — CONCRETE SIDEWALK 7/D63
- B — GAZEBO 7/D63
- C — BOLLARDS
- D — WARNING SIGN

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I. OTERO	JUN 12/13

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CLOSE/DEMOLISH FACILITIES AND STRUCTURES, VARIOUS LOCATIONS, PACKAGE 1

SITE PLAN BUILDING M7-0961

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PROJ. NO. 97963.9 SHEET 10

D3

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FLAG NOTES

A. DEMOLISH ASPHALT PAVEMENT, CURBING, CONCRETE FLUMES, AND CONCRETE PAVEMENT. SAWCUT EDGES OF PAVEMENT TO REMAIN. (6/D63)

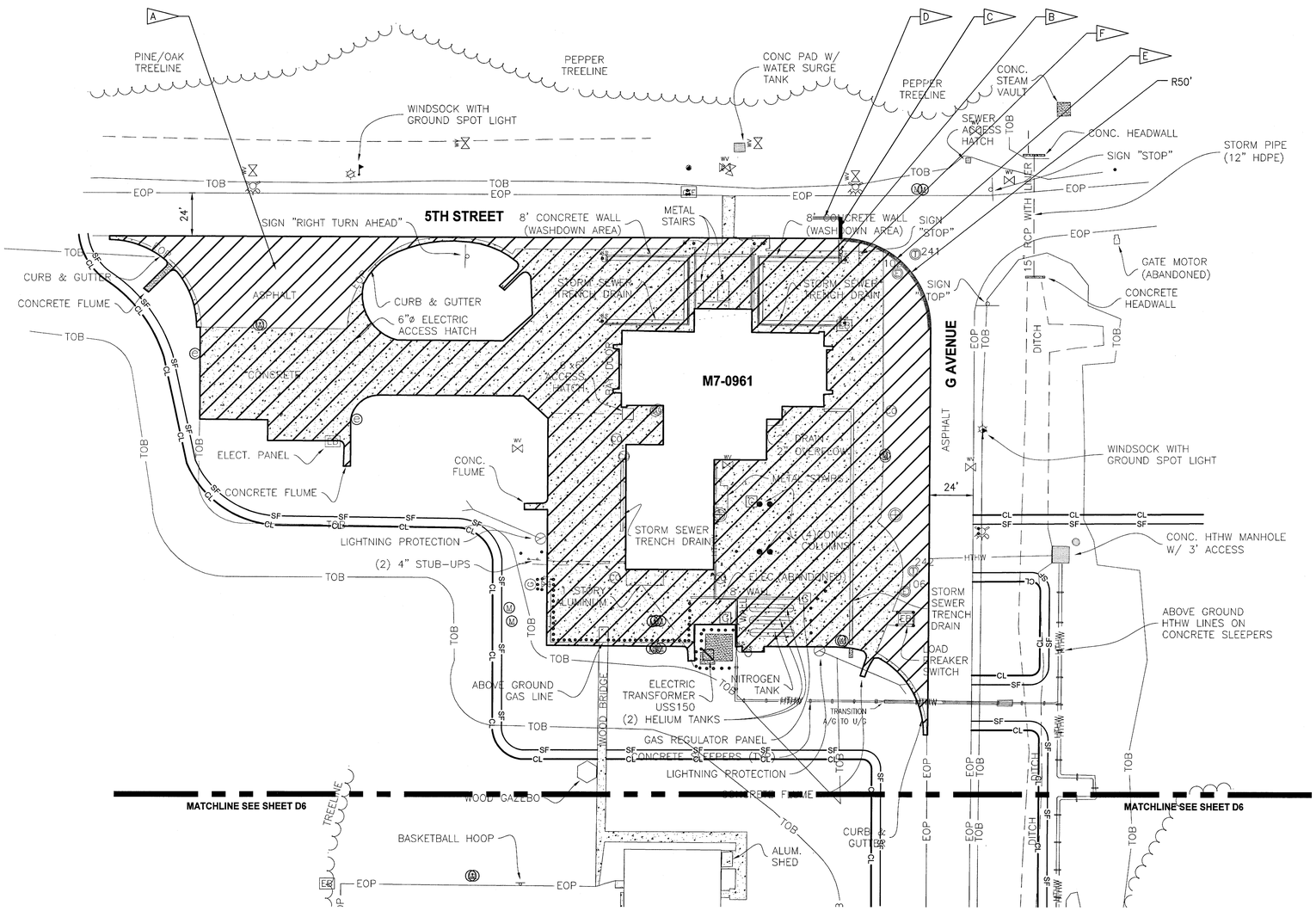
B. INSTALL RELOCATED STOP SIGN

C. INSTALL FDOT 24" WHITE STOP BAR

D. INSTALL 15 LF DOUBLE 4" YELLOW STRIPING

E. INSTALL RIBBON CURB (6/D69)

F. STOP SIGN TO BE RELOCATED AS SHOWN ON THIS SHEET



PAVEMENT PLAN BUILDING M7-0961

1"=30'

GRAPHIC SCALE
0 15 30 60
SCALE IN FEET
1"=30'

N

D4

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CLOSE/DEMOLISH FACILITIES AND STRUCTURES, VARIOUS LOCATIONS, PACKAGE 1

PAVEMENT PLAN BUILDING M7-0961

FILE NO.	SIZE	DWG. NO.	REV
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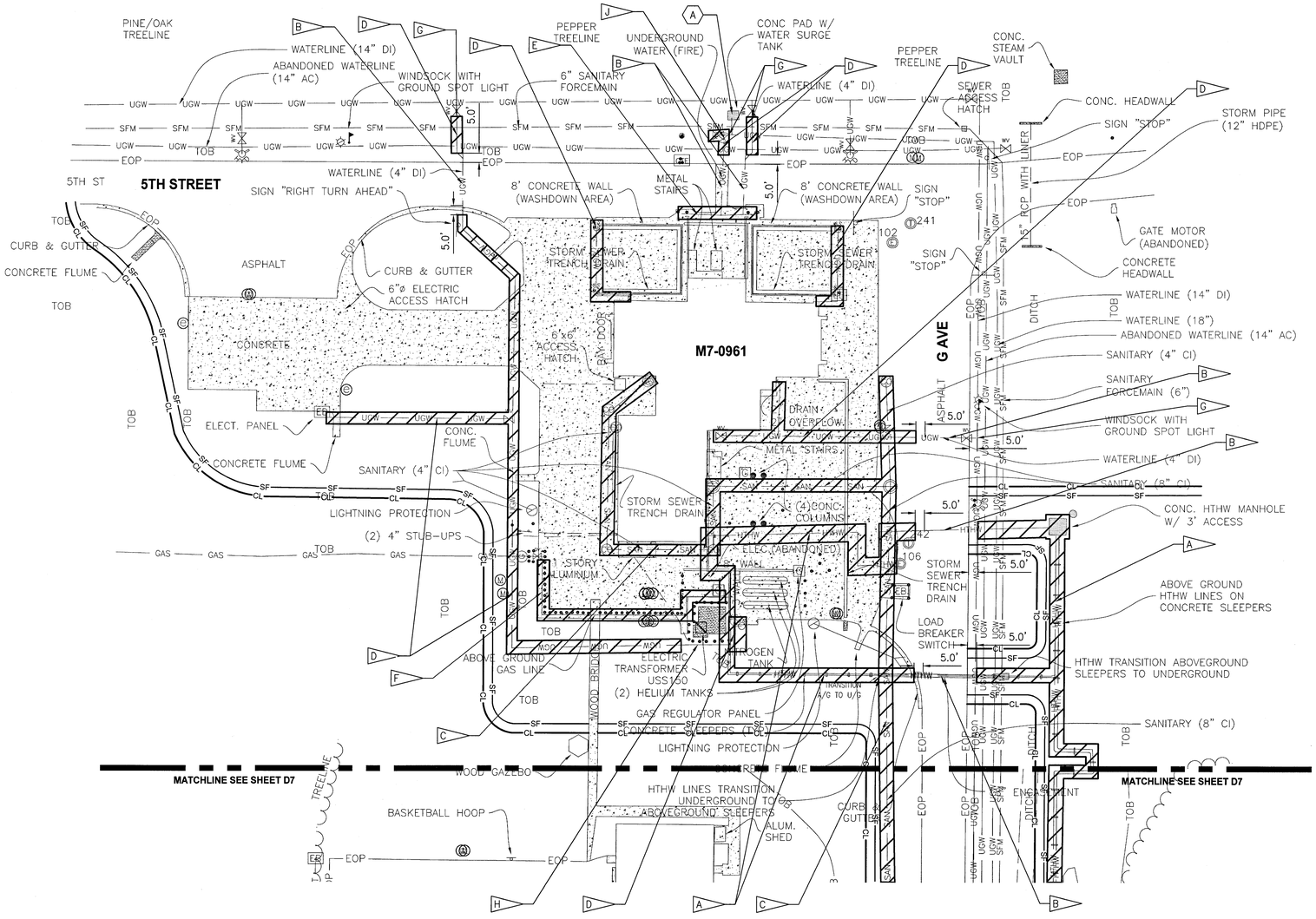

UTILITIES PLAN BUILDING M7-0961

1"=30'

FLAG NOTES

A — DEMOLISH HIGH TEMPERATURE HOT WATER LINES, HIGH TEMPERATURE HOT WATER MANHOLES, CONCRETE PIPE SUPPORTS, ANCHORS, AND ASSOCIATED APPURTENANCES. 5/D63 5/D66

B — ABANDON UTILITIES IN PLACE UNDER EXISTING ASPHALT AND CONCRETE PAVEMENT TO REMAIN. THE EXISTING UTILITY SHALL BE CUT 5' FROM EDGE OF PAVEMENT. THE ENTIRE LENGTH OF PIPE UNDER PAVEMENT SHALL BE FILLED WITH NON-SHRINK GROUT AND THE ENDS OF THE PIPE SHALL BE CAPPED. 1/D69 4/D69

C — DEMOLISH SANITARY SEWER, MANHOLES, AND ASSOCIATED APPURTENANCES.

D — DEMOLISH WATER LINE.

E — DEMOLISH FIRE SERVICE PIPING AND ASSOCIATED APPURTENANCES.

F — DEMOLISH HIGH PRESSURE GASEOUS NITROGEN LINE UP TO VALVE TO REMAIN. INSTALL CAP AT VALVE. 1/D69

G — INSTALL RESTRAINED CAP AT TEE. 1/D69

H — ABANDON UTILITIES IN PLACE UNDER BOLLARDS TO REMAIN. THE EXISTING UTILITY SHALL BE CUT 5' FROM THE EDGE OF THE BOLLARDS. THE ENTIRE LENGTH OF ABANDONED PIPE SHALL BE FILLED WITH NON-SHRINK GROUT AND THE ENDS OF THE PIPE SHALL BE CAPPED. 1/D69

J — DEMOLISH ABOVE GRADE FIRE SERVICE VALVE, PIPING, AND ASSOCIATED APPURTENANCES 8/D62

TO REMAIN

A — WATER SURGE TANK ON CONCRETE PAD 8/D62

GRAPHIC SCALE
0 15 30 60
SCALE IN FEET
1"=30'

N

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CLOSE/DEMOLISH FACILITIES AND STRUCTURES, VARIOUS LOCATIONS, PACKAGE 1

UTILITIES PLAN BUILDING M7-0961

FILE NO.	SIZE	DWG. NO.	REV
	F	79K39389	

PROJ. NO. 97963.9 SHEET 12

D5

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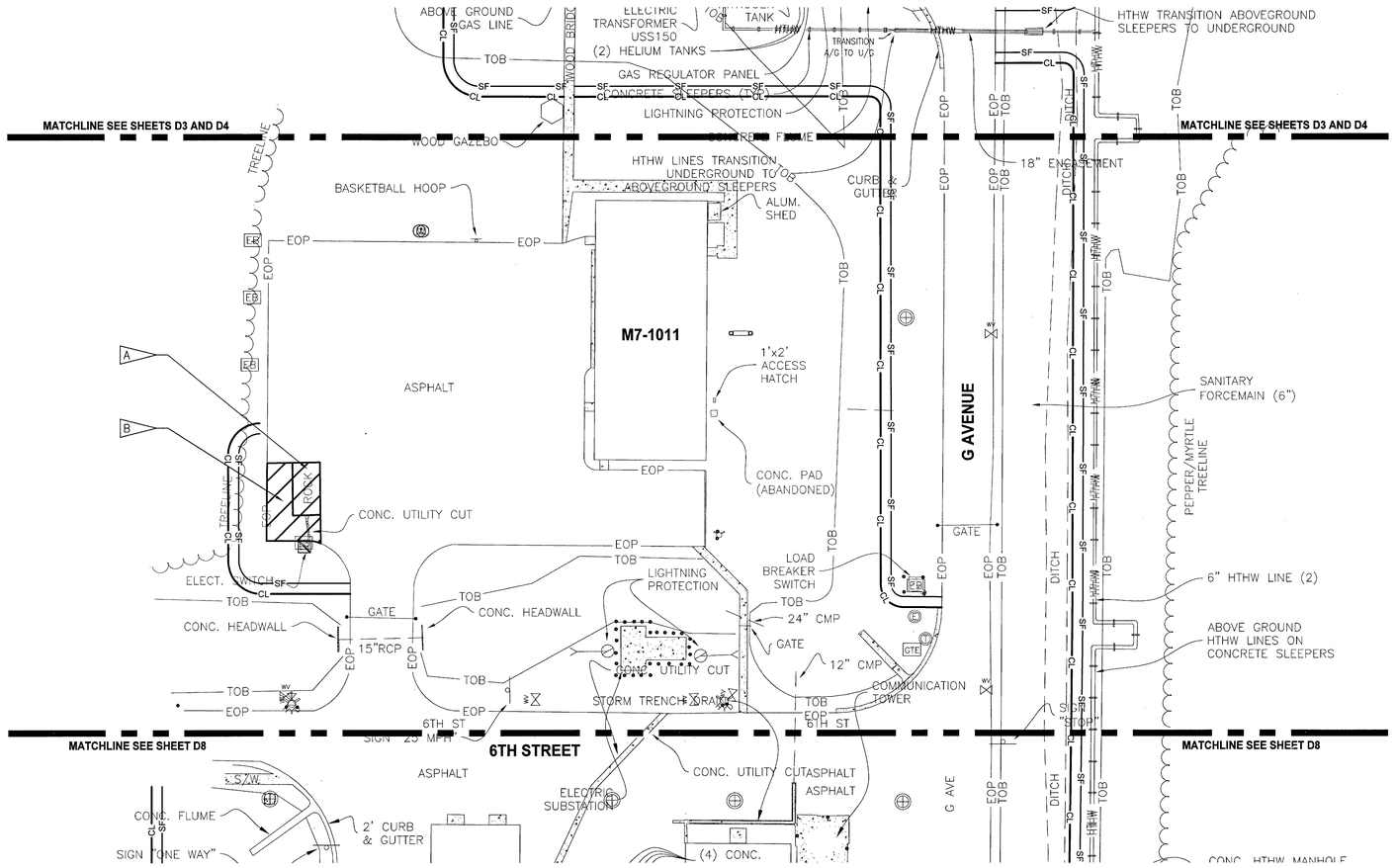
FLAG NOTES

A. DEMOLISH HMF MIX CRIB (M7-1012) FOUNDATION, GRAVEL LANDSCAPING, AND ASSOCIATED APPURTENANCES — 6/D62, 7/D62

B. DEMOLISH ASPHALT AND CONCRETE PAVEMENT. SAWCUT EDGES OF PAVEMENT TO REMAIN. — 6/D62, 7/D62



SITE AND PAVEMENT PLAN M7-1012

1"=30'

GRAPHIC SCALE
0 15 30 60
SCALE IN FEET
1"=30'

N

D6

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CLOSE/DEMOLISH FACILITIES AND STRUCTURES, VARIOUS LOCATIONS, PACKAGE 1

SITE AND PAVEMENT PLAN M7-1012

FILE NO.	SIZE	DWG. NO.	REV
	F	79K39389	

PROJ. NO. 97963.9 SHEET 13

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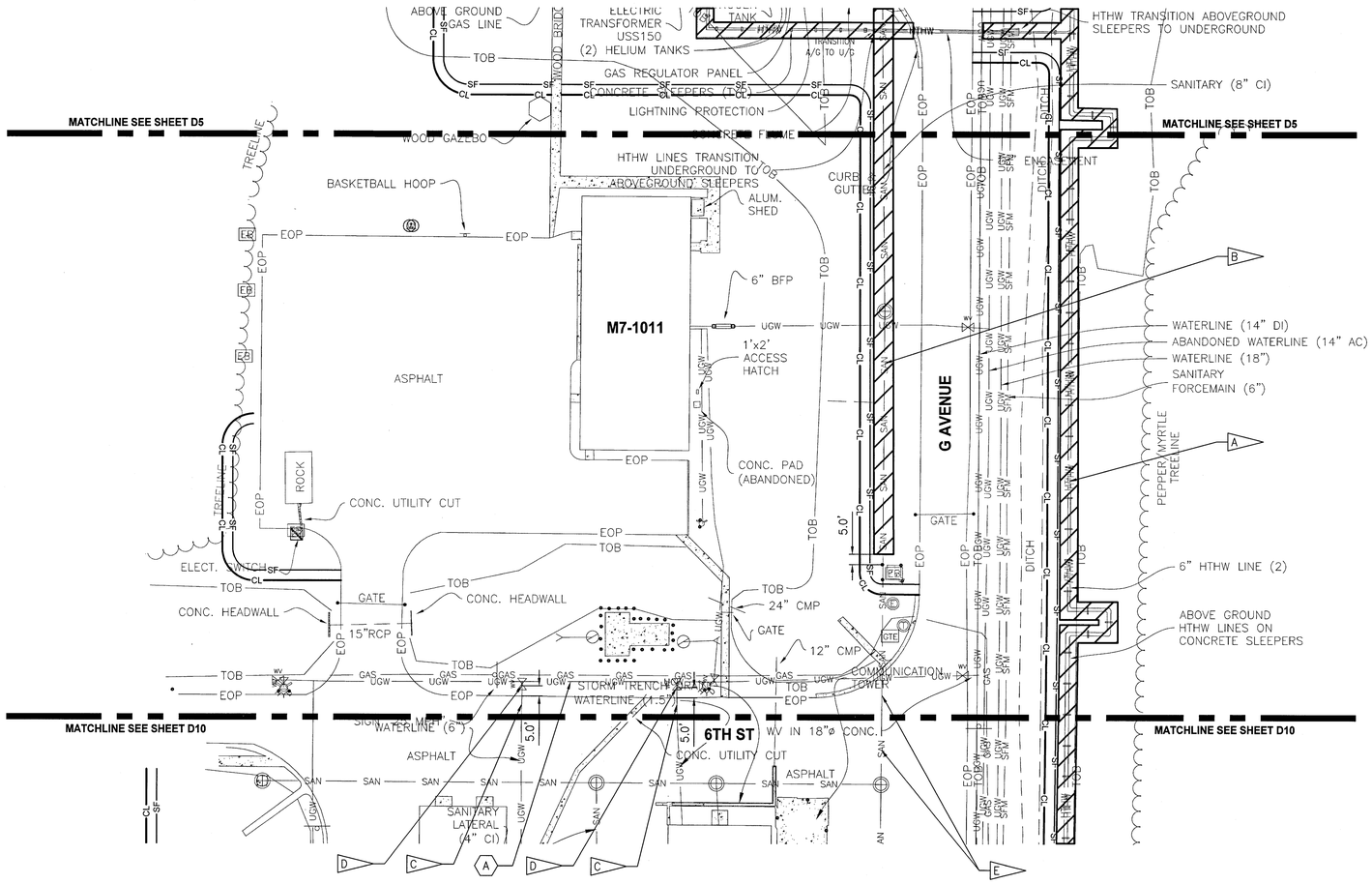

UTILITIES PLAN M7-1012

1"=30'

FLAG NOTE

A — DEMOLISH HIGH TEMPERATURE HOT WATER LINES, HIGH TEMPERATURE HOT WATER MANHOLES, CONCRETE PIPE SUPPORTS, ANCHORS, AND ASSOCIATED APPURTENANCES. (5/D66)

B — DEMOLISH SANITARY SEWER AND ASSOCIATED APPURTENANCES.

C — ABANDON UTILITIES IN PLACE UNDER EXISTING ASPHALT AND CONCRETE PAVEMENT TO REMAIN. THE EXISTING UTILITY SHALL BE CUT 5' FROM EDGE OF PAVEMENT. THE ENTIRE LENGTH OF PIPE UNDER PAVEMENT SHALL BE FILLED WITH NON-SHRINK GROUT AND THE ENDS OF THE PIPE SHALL BE CAPPED. (1/D69)

D — INSTALL RESTRAINED CAP AT TEE. (1/D69)

E — ABANDON SANITARY SEWER IN PLACE UNDER EXISTING ASPHALT AND CONCRETE PAVEMENT TO REMAIN. THE EXISTING UTILITY SHALL BE CUT 5' FROM EDGE OF ELECTRICAL BOX. THE NORTHERN END OF THE PIPE SHALL BE CAPPED AND THE ENTIRE LENGTH OF PIPE SHALL BE FILLED WITH NON-SHRINK GROUT TO THE MANHOLE PENETRATION LOCATED TO THE SOUTH. (1/D69)

TO REMAIN

A — WATER MAIN

GRAPHIC SCALE
0 15 30 60
SCALE IN FEET
1"=30'

N

D7

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SUBMITTED J. BELL	06/10/13
ST of LICENSURE: FL LICENSE NO: 69033	06/10/13
APPROVED D. TOTH	6/10/13
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CLOSE/DEMOLISH FACILITIES AND STRUCTURES, VARIOUS LOCATIONS, PACKAGE 1

UTILITIES PLAN M7-1012

FILE NO.	SIZE	DWG. NO.	REV
	F	79K39389	

PROJ. NO. 97963.9 SHEET 14

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FLAG NOTES

A. DEMOLISH HYPERGOL SUPPORT BUILDING (M7-1061), FOUNDATION, CONCRETE SLABS, AND ASSOCIATED APPURTENANCES 1/D64, 2/D64, 3/D64, 4/D64

B. DEMOLISH GHE AND GN2 STORAGE (M7-1061A), CONCRETE WALLS, CONCRETE SLABS, AND ASSOCIATED APPURTENANCES 1/D65, 2/D65, 3/D65

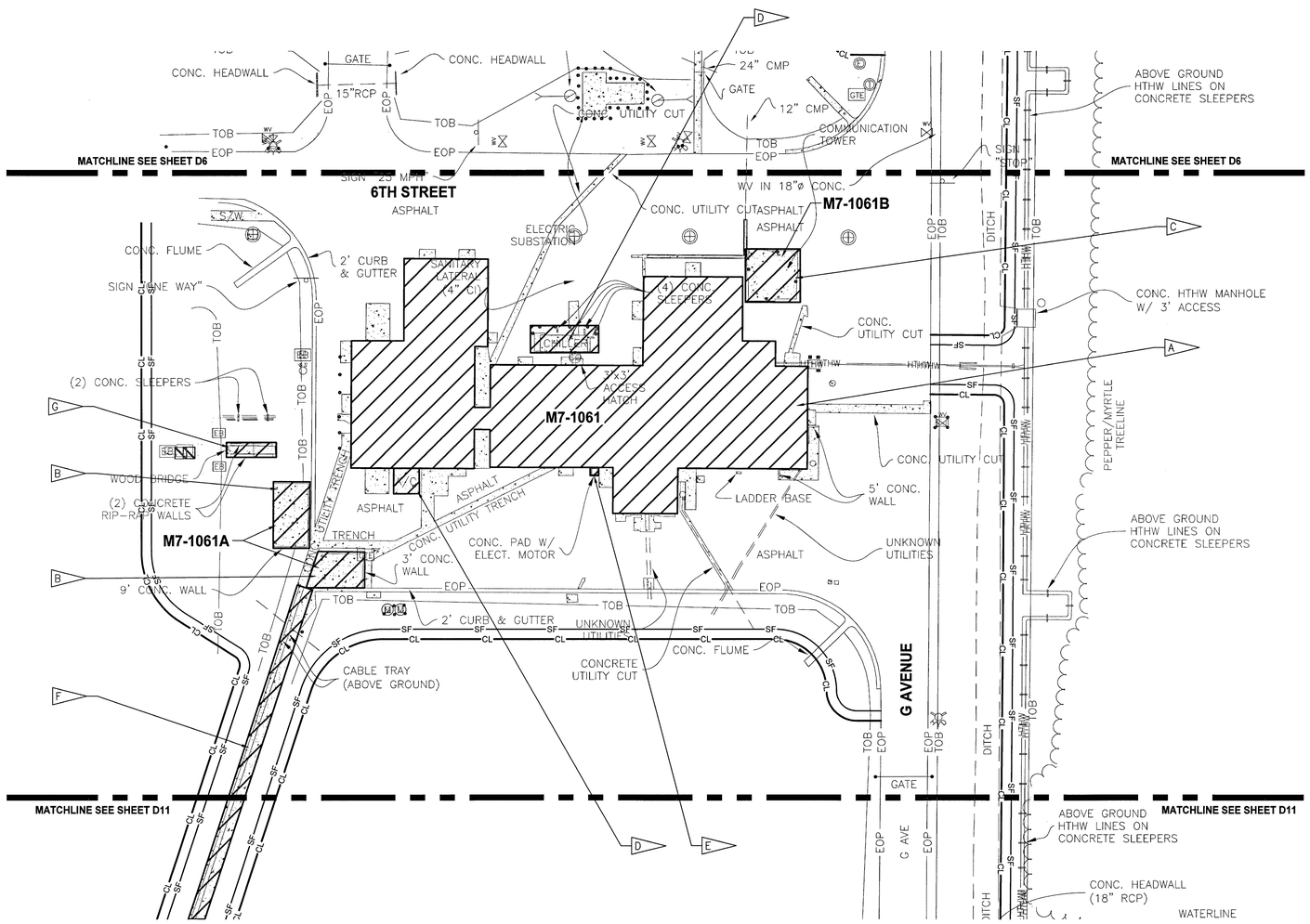
C. DEMOLISH ANTENNA TOWER (M7-1061B), FOUNDATION, CONCRETE SLABS, AND ASSOCIATED APPURTENANCES 4/D65, 5/D65

D. DEMOLISH HVAC EQUIPMENT, PIPING, CONCRETE PADS, AND ASSOCIATED APPURTENANCES 3/D64

E. DEMOLISH MOTOR, CONCRETE PAD, PIPING, AND ASSOCIATED APPURTENANCES 3/D64

F. DEMOLISH ABOVE GROUND CABLE TRAY AND ASSOCIATED APPURTENANCES 6/D64, 7/D64, 8/D64

G. DEMOLISH WOOD BRIDGE AND ASSOCIATED APPURTENANCES 5/D64



SITE PLAN M7-1061, M7-1061A & M7-1061B

1"=30'

GRAPHIC SCALE
0 15 30 60
SCALE IN FEET
1"=30'

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CLOSE/DEMOLISH FACILITIES AND STRUCTURES, VARIOUS LOCATIONS, PACKAGE 1

SITE PLAN M7-1061, M7-1061A & M7-1061B

FILE NO.	SIZE	DWG. NO.	REV
	F	79K39389	
PROJ. NO. 97963.9		SHEET 15	

D8

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

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FLAG NOTES

A. DEMOLISH ASPHALT PAVEMENT, CURBING, CONCRETE FLUMES, BOLLARDS, AND CONCRETE PAVEMENT. SAWCUT EDGES OF PAVEMENT TO REMAIN.

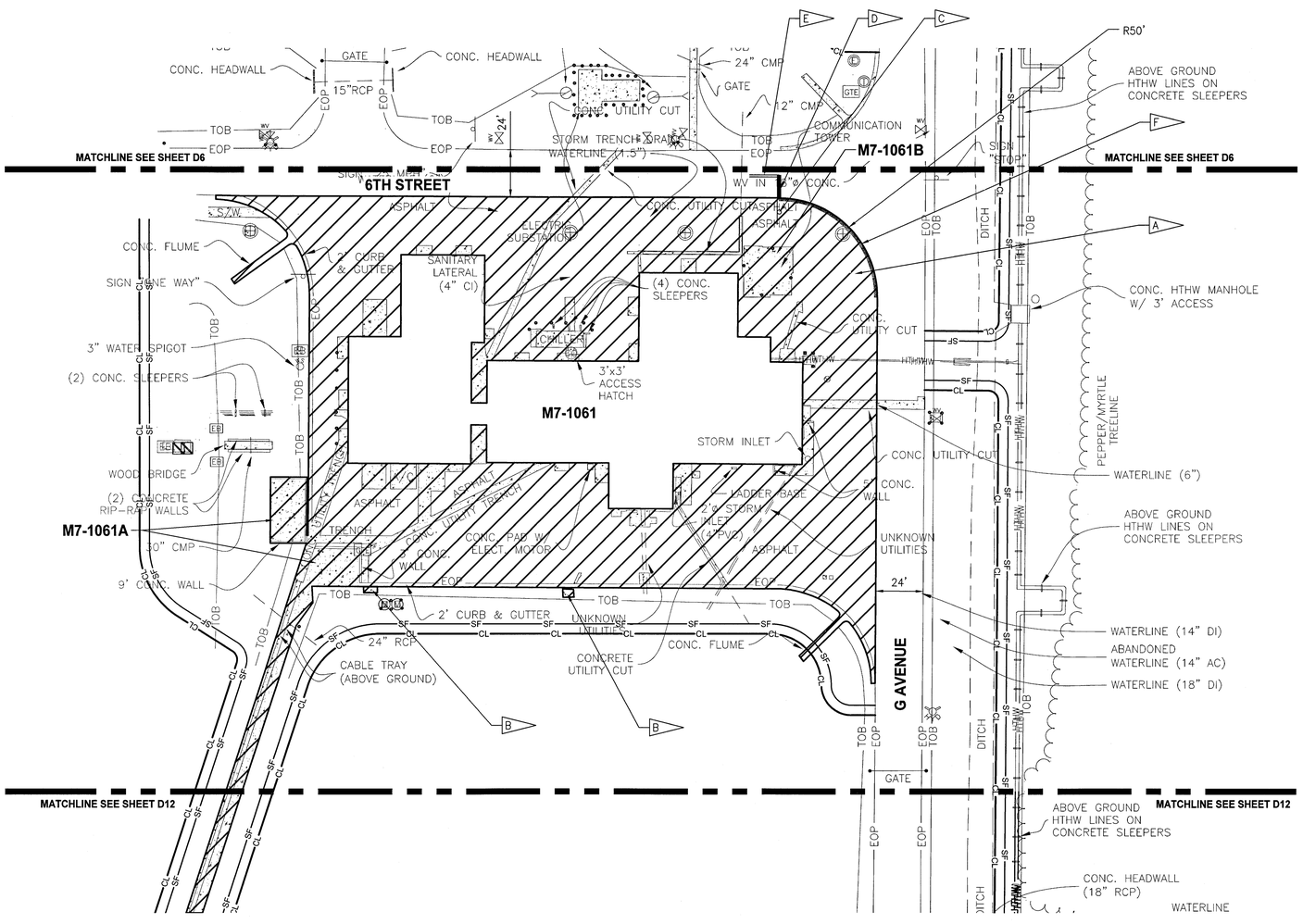
B. DEMOLISH CONCRETE PAD

C. INSTALL FDOT STOP SIGN 3/D70

D. INSTALL FDOT 24" WHITE STOP BAR

E. INSTALL 15 LF DOUBLE 4" YELLOW STRIPING

F. INSTALL RIBBON CURB 6/D69



PAVEMENT PLAN M7-1061, M7-1061A & M7-1061B

1"=30'

GRAPHIC SCALE
0 15 30 60
SCALE IN FEET
1"=30'

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CLOSE/DEMOLISH FACILITIES AND STRUCTURES, VARIOUS LOCATIONS, PACKAGE 1

PAVEMENT PLAN M7-1061, M7-1061A & M7-1061B

FILE NO.	SIZE	DWG. NO.	REV
	F	79K39389	

PROJ. NO. 97963.9 SHEET 16

D9

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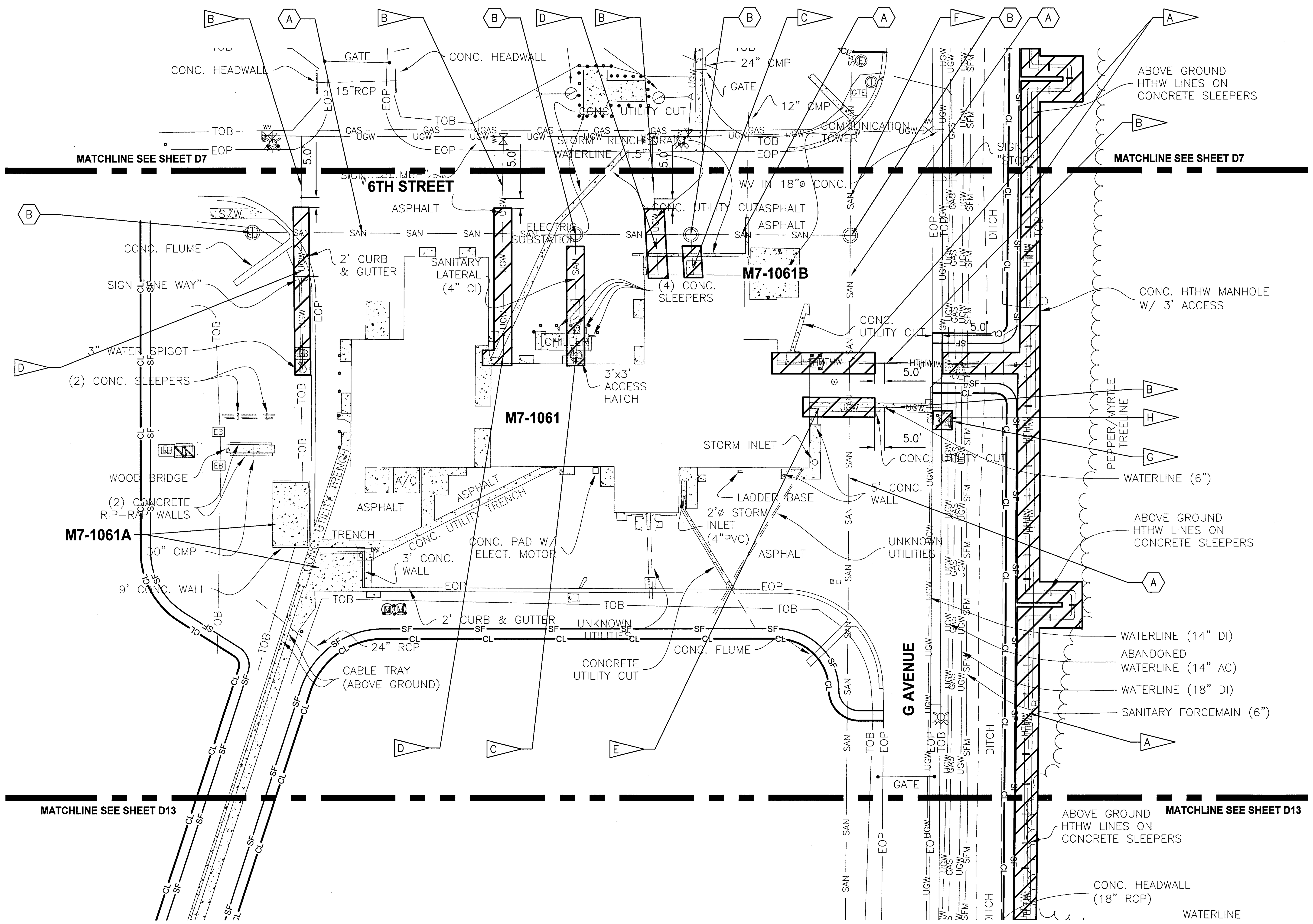

UTILITIES PLAN M7-1061, M7-1061A & M7-1061B

1"=30'

GRAPHIC SCALE

0 15 30 60

SCALE IN FEET
1"=30'

-N-

FLAG NOTES

- A — DEMOLISH HIGH TEMPERATURE HOT WATER LINES, HIGH TEMPERATURE HOT WATER MANHOLES, CONCRETE PIPE SUPPORTS, ANCHORS, AND ASSOCIATED APPURTENANCES. (4/D64) (5/D66)
- B — ABANDON UTILITIES IN PLACE UNDER EXISTING ASPHALT AND CONCRETE PAVEMENT TO REMAIN. THE EXISTING UTILITY SHALL BE CUT 5' FROM EDGE OF PAVEMENT. THE ENTIRE LENGTH OF PIPE UNDER PAVEMENT SHALL BE FILLED WITH NON-SHRINK GROUT AND THE ENDS OF THE PIPE SHALL BE CAPPED. (1/D69)
- C — DEMOLISH SANITARY SEWER AND ASSOCIATED APPURTENANCES. GROUT MANHOLE PENETRATION.
- D — DEMOLISH WATER LINE
- E — DEMOLISH FIRE SERVICE PIPING AND ASSOCIATED APPURTENANCES (1/D69)
- F — ABANDON SANITARY SEWER IN PLACE UNDER EXISTING ASPHALT AND CONCRETE PAVEMENT TO REMAIN. THE EXISTING UTILITY SHALL BE CUT ON THE NORTH SIDE OF 6TH STREET AS SHOWN ON SHEET D7. THE ENTIRE LENGTH OF PIPE UNDER 6TH STREET AND CONTINUING NORTHWARD SHALL BE FILLED WITH NON-SHRINK GROUT AND THE NORTHERN END OF THE PIPE SHALL BE CAPPED. GROUT MANHOLE PENETRATION. (1/D69)
- G — INSTALL RESTRAINED CAP (1/D69)
- H — DEMOLISH FIRE SERVICE PIPING, VALVES, CONCRETE PAD, BOLLARDS, AND ASSOCIATED APPURTENANCES (9/D64)

TO REMAIN

- A — SANITARY SEWER
- B — SANITARY MANHOLE

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I. OTERO	JUN 12/13

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CLOSE/DEMOLISH FACILITIES AND STRUCTURES, VARIOUS LOCATIONS, PACKAGE 1

UTILITIES PLAN M7-1061, M7-1061A & M7-1061B

FILE NO.	SIZE	DWG. NO.	REV
	F	79K39389	

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D10

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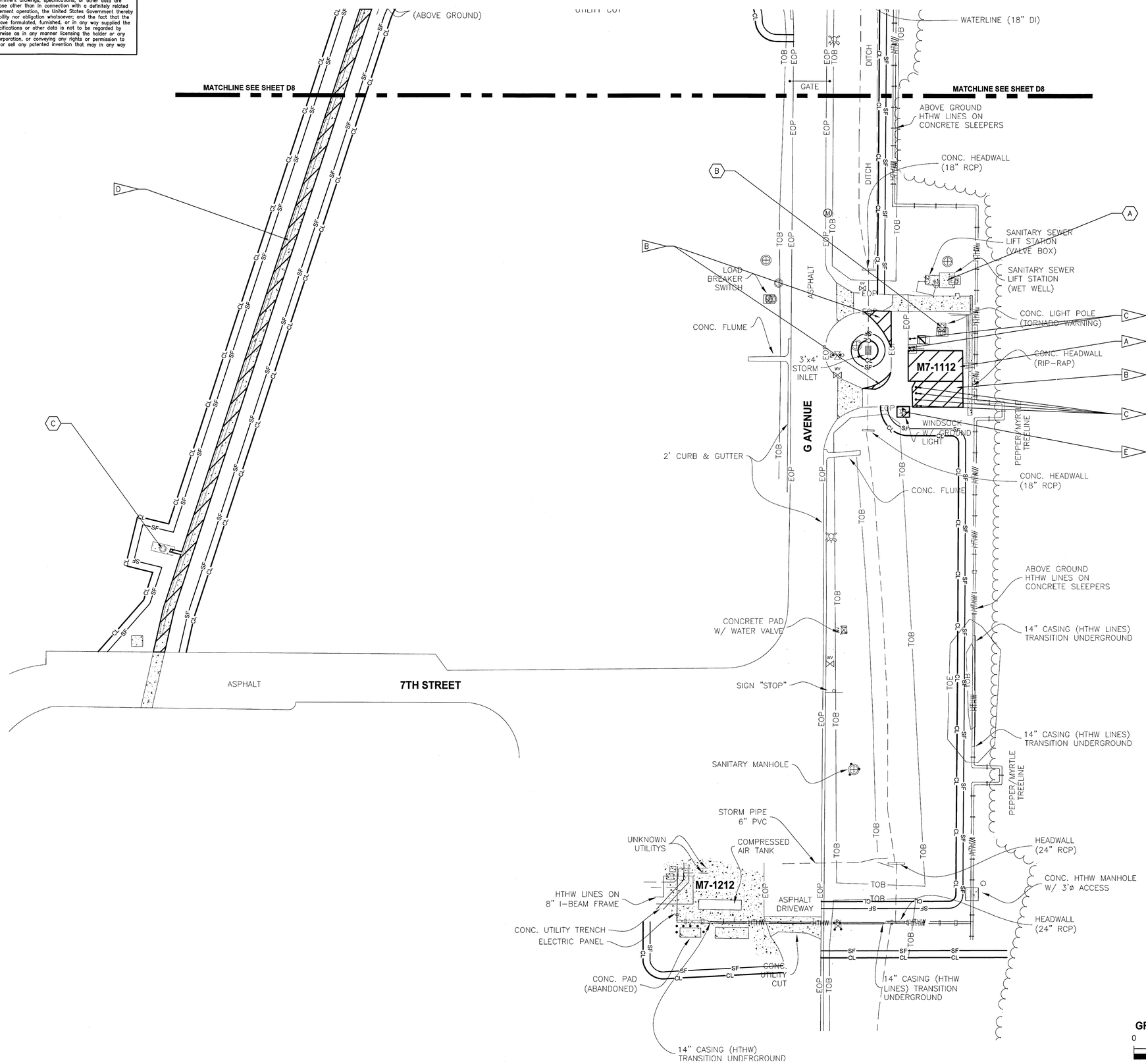

SITE PLAN BUILDING M7-1112

1"=30'

FLAG NOTES

A. DEMOLISH HEATING PLANT (M7-1112), FOUNDATION, CONCRETE SLABS, AND ASSOCIATED APPURTENANCES (1 D66) (2 D66) (4 D66) (6 D66)

B. DEMOLISH GRAVEL LANDSCAPING (1 D66) (6 D66)

C. DEMOLISH BOLLARDS AND ASSOCIATED APPURTENANCES (1 D66) (6 D66)

D. DEMOLISH ABOVE GROUND CABLE TRAY AND ASSOCIATED APPURTENANCES (6 D64) (7 D64) (8 D64)

E. DEMOLISH WINDSOCK, GROUND SPOT LIGHT, AND ASSOCIATED APPURTENANCES (1 D66) (6 D66)

TO REMAIN

A. LIFT STATION (3 D66)

B. CONCRETE POLE AND SIREN (6 D66)

C. COMMUNICATIONS MANHOLE AND CONRETE STRUCTURE (8 D64)

GRAPHIC SCALE
0 15 30 60
SCALE IN FEET
1"=30'

N

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CLOSE/DEMOLISH FACILITIES AND STRUCTURES, VARIOUS LOCATIONS, PACKAGE 1

SITE PLAN BUILDING M7-1112

FILE NO.	SIZE	DWG. NO.	REV
	F	79K39389	
PROJ. NO. 97963.9		SHEET 18	

D11

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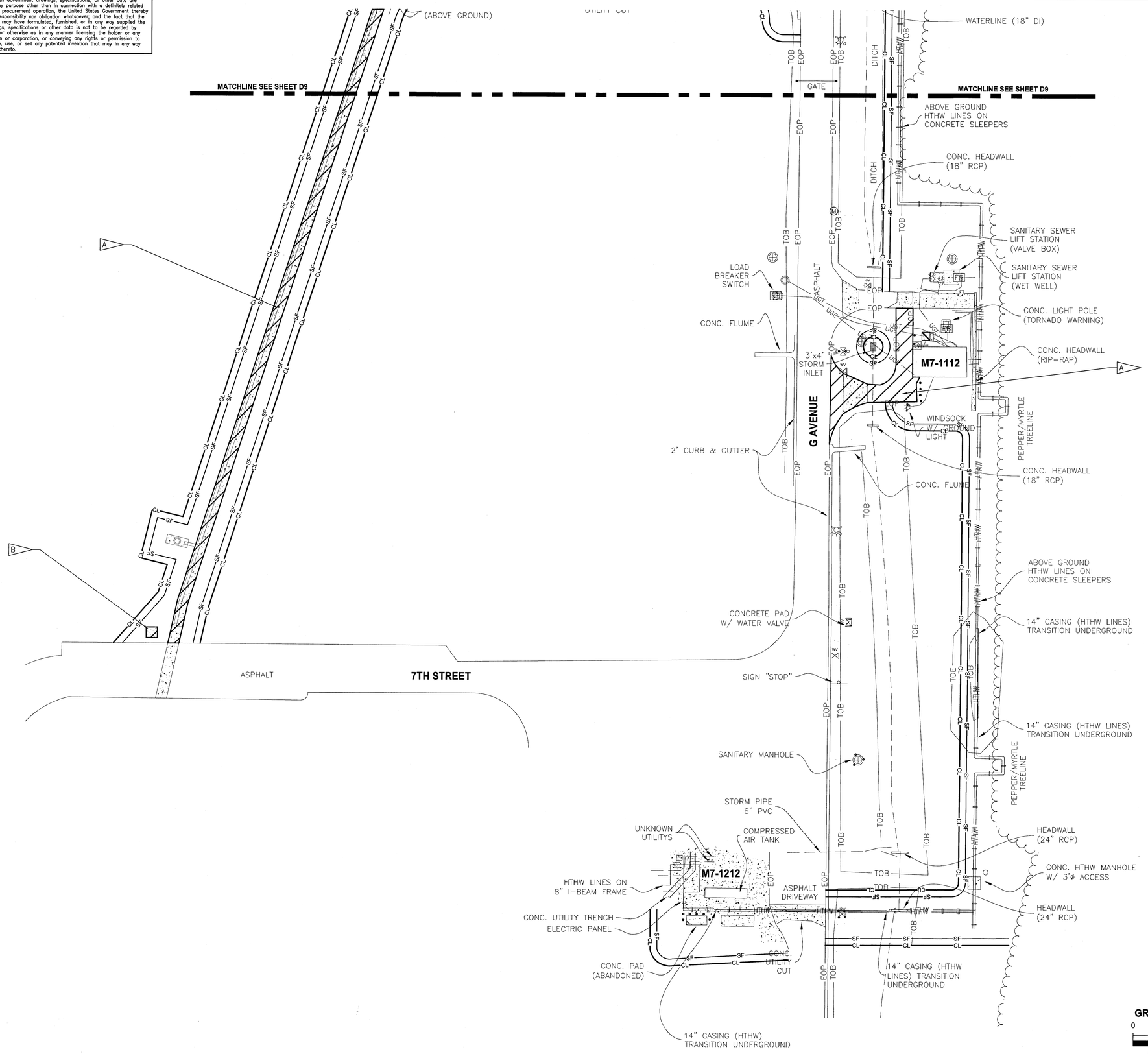

FLAG NOTES

A. DEMOLISH ASPHALT PAVEMENT, CURBING, AND CONCRETE PAVEMENT. SAWCUT EDGES OF PAVEMENT TO REMAIN.

B. DEMOLISH CONCRETE PAD 6/D64

PAVEMENT PLAN BUILDING M7-1112

1"=30'

GRAPHIC SCALE
0 15 30 60
SCALE IN FEET
1"=30'

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CLOSE/DEMOLISH FACILITIES AND STRUCTURES, VARIOUS LOCATIONS, PACKAGE 1

PAVEMENT PLAN BUILDING M7-1112

FILE NO.	SIZE	DWG. NO.	REV
	F	79K39389	

PROJ. NO. 97963.9 SHEET 19

D12

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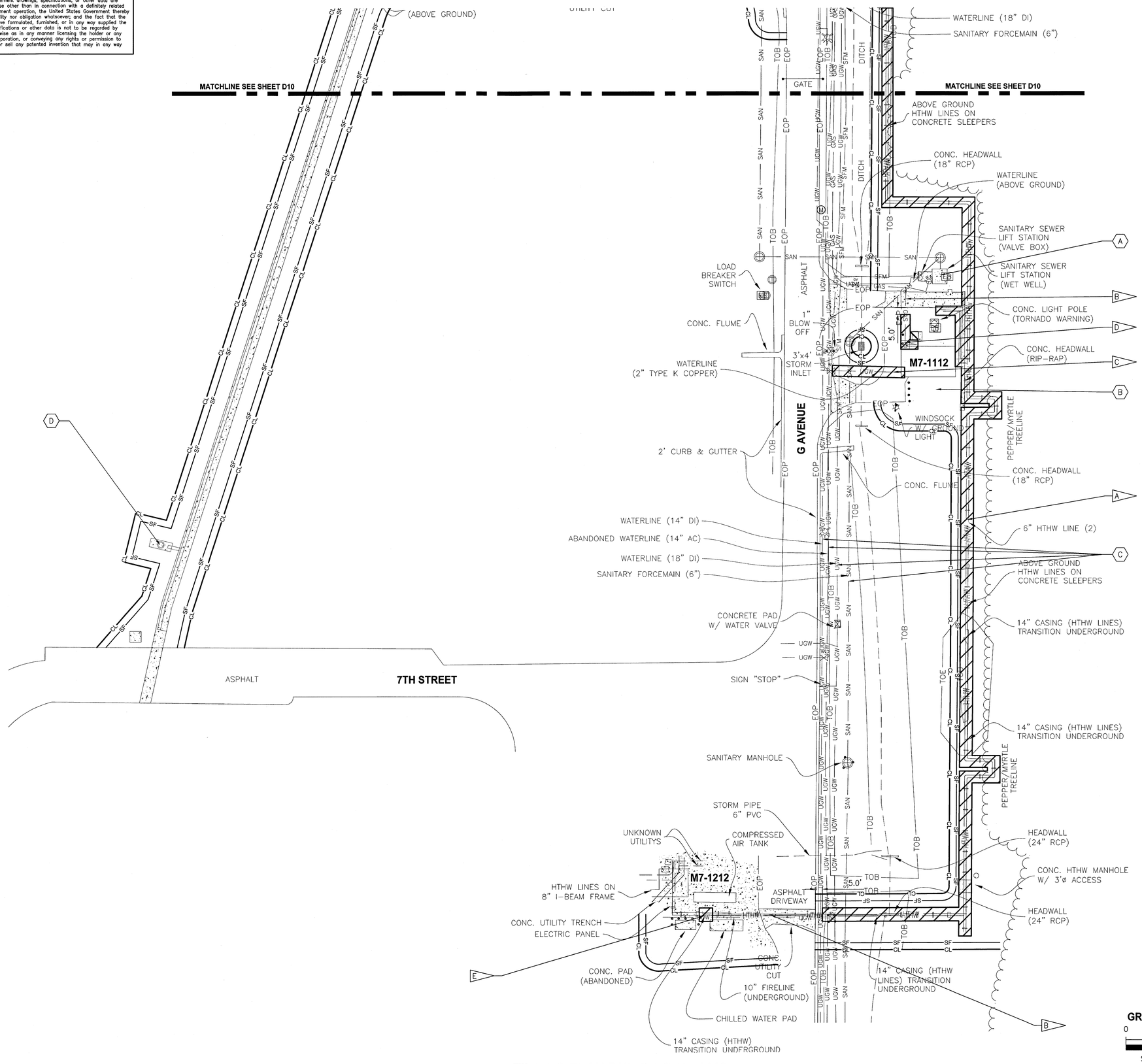

UTILITIES PLAN BUILDING M7-1112
1"=30'

FLAG NOTES

A. DEMOLISH HIGH TEMPERATURE HOT WATER LINES, HIGH TEMPERATURE HOT WATER MANHOLES, CONCRETE PIPE SUPPORTS, ANCHORS, AND ASSOCIATED APPURTENANCES. (2/D66) (4/D66) (5/D66)

B. ABANDON UTILITIES IN PLACE UNDER EXISTING ASPHALT AND CONCRETE PAVEMENT TO REMAIN. THE EXISTING UTILITY SHALL BE CUT 5' FROM EDGE OF PAVEMENT. THE ENTIRE LENGTH OF PIPE UNDER PAVEMENT SHALL BE FILLED WITH NON-SHRINK GROUT AND THE ENDS OF THE PIPE SHALL BE CAPPED. (1/D69)

C. DEMOLISH WATER LINE. INSTALL RESTRAINED CAP AT TEE. (1/D69)

D. DEMOLISH GAS PIPING. COORDINATE ISOLATION, DRAINING, PURGING, AND SAFING WITH FLORIDA CITY GAS BEFORE WORK BEGINS.

E. DEMOLISH HIGH TEMPERATURE HOT WATER LINES. SEE M7-1212 HIGH TEMPERATURE HOT WATER LINE DEMOLITION PLAN ON SHEET D70. (1/D70)

TO REMAIN

A. LIFT STATION (3/D66)

B. 15,000 GALLON UNDERGROUND FUEL STORAGE TANK (PREVIOUSLY ABANDONED IN PLACE – REFER TO THE "TANK CLOSURE ASSESSMENT REPORT FOR BUILDING NO. M7-1112" DATED AUGUST 1996 FOR ADDITIONAL DETAILS)

C. UNDERGROUND UTILITIES AND ASSOCIATED APPURTENANCES

D. COMMUNICATIONS MANHOLE AND CONCRETE STRUCTURE (8/D64)

GRAPHIC SCALE
0 15 30 60
SCALE IN FEET
1"=30'

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CLOSE/DEMOLISH FACILITIES AND STRUCTURES, VARIOUS LOCATIONS, PACKAGE 1

UTILITIES PLAN BUILDING M7-1112

FILE NO.	SIZE	DWG. NO.	REV
	F	79K39389	

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D13

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

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FLAG NOTES

A DEMOLISH WASTE WATER TREATMENT FACILITY (M6-0897), FOUNDATION, AND ASSOCIATED APPURTENANCES 7/D66, 8/D66, 9/D66

B DEMOLISH BOLLARDS AND ASSOCIATED APPURTENANCES 7/D66, 9/D66

C DEMOLISH CONCRETE PAVEMENT. SAWCUT EDGES OF PAVEMENT TO REMAIN.

D DEMOLISH CONCRETE SLABS

TO REMAIN

A BUILDING M6-0946

B BUILDING M6-0896

C BUILDING TR1-0477

D ELECTRICAL EQUIPMENT AND STRUCTURES

E ASPHALT/CONCRETE PAVEMENT AND CURBING

SITE AND PAVEMENT PLAN BUILDING M6-0897

1"=20'

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

N

THIS SPACE RESERVED

SYM	ZONE	DESCRIPTION	DATE	APPROVED

REVISIONS

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3910 S WASHINGTON AVE, SUITE 210, TITUSVILLE, FLORIDA 32780 / (321) 269-2950

SIGNATURES	DATE
DRAWN C. COFFEY	06/10/13
CHECKED K. RIVERA	06/10/13
SUBMITTED J. BELL	06/10/13
ST of LICENSURE: FL LICENSE NO: 69033	06/10/13
APPROVED D. TOTH	6/10/13
I. OTERO	12/3

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
JOHN F. KENNEDY SPACE CENTER, NASA
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CLOSE/DEMOLISH FACILITIES AND STRUCTURES, VARIOUS LOCATIONS, PACKAGE 1

SITE AND PAVEMENT PLAN BUILDING M6-0897

FILE NO.	SIZE	DWG. NO.	REV
	F	79K39389	
PROJ. NO. 97963.9		SHEET 21	

D14

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

FILE: \\Titusmd01\drafting\14000 Notes\212-01_Design-Close-Demo-Var-Facs-FY13&14\Contract Drawings\Package 1\Civil\14000212P1-D14.dwg PRINTED: 6/10/2013 2:15 PM, BY USER: Kristian Perez LAST MODIFIED: 4/23/2013 2:05 PM, BY USER: CCoffey

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FLAG NOTES

A. ABANDON UTILITIES IN PLACE UNDER EXISTING ASPHALT AND CONCRETE PAVEMENT TO REMAIN. THE EXISTING UTILITY SHALL BE CUT 5' FROM EDGE OF PAVEMENT. THE ENTIRE LENGTH OF PIPE UNDER PAVEMENT SHALL BE FILLED WITH NON-SHRINK GROUT AND THE ENDS OF THE PIPE SHALL BE CAPPED. (1/D69)

B. DEMOLISH SANITARY SEWER. INSTALL CAP AT TEE. (1/D69)

C. DEMOLISH WATER LINE. INSTALL RESTRAINED CAP AT TEE. (1/D69)

D. DEMOLISH SANITARY SEWER AND ASSOCIATED APPURTENANCES.

UTILITIES PLAN BUILDING M6-0897

1"=20'

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

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CLOSE/DEMOLISH FACILITIES AND STRUCTURES, VARIOUS LOCATIONS, PACKAGE 1

UTILITIES PLAN BUILDING M6-0897

FILE NO.	SIZE	DWG. NO.	REV
	F	79K39389	

PROJ. NO. 97963.9 SHEET 22

D15

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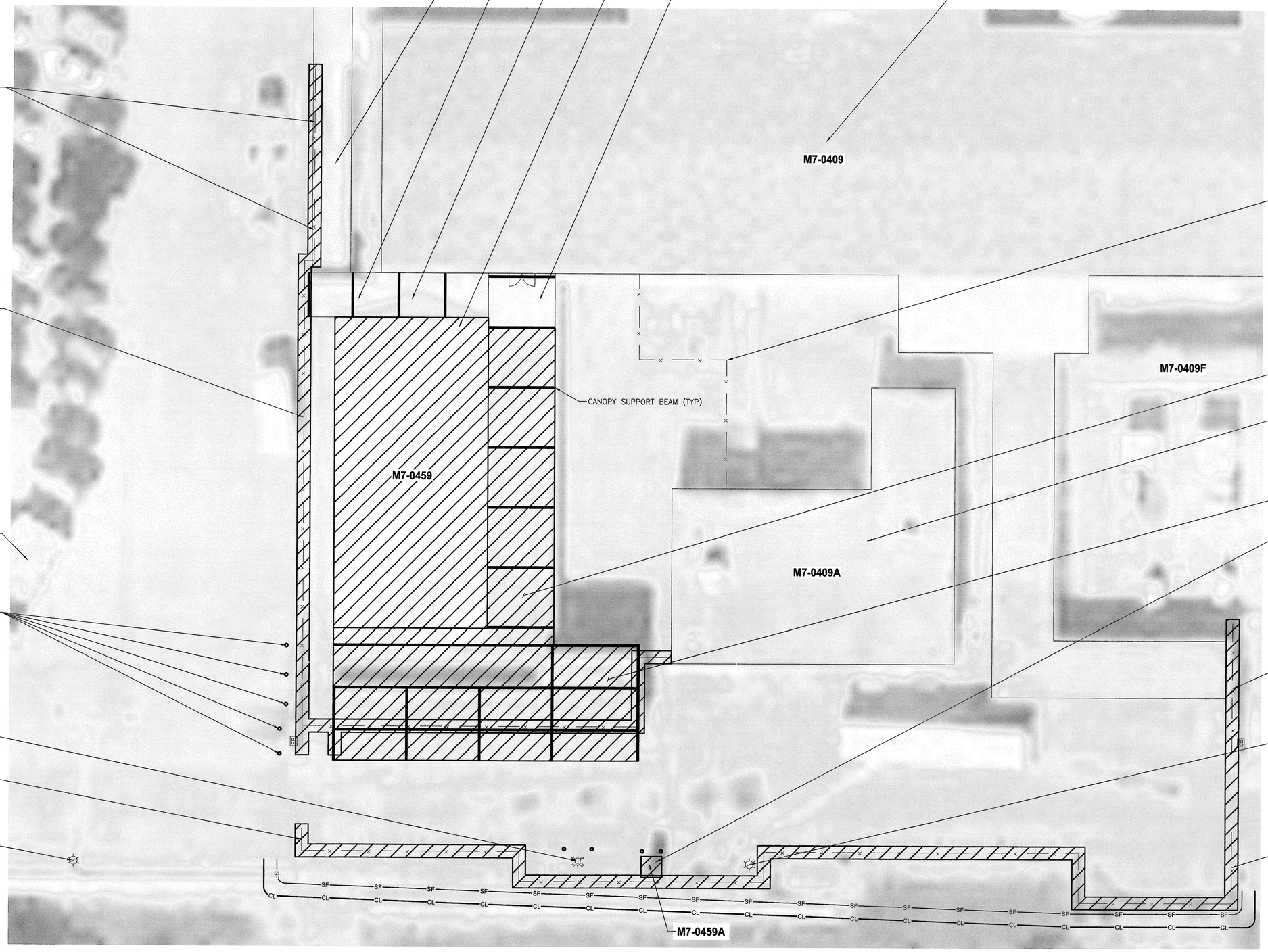

SITE PLAN BUILDINGS M7-0459 & M7-0459A

1"=10'

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

FLAG NOTES

A. DEMOLISH ISSC CONCESSION BUILDING (M7-0459), FOUNDATION, CONCRETE SLABS, AND ASSOCIATED APPURTENANCES 1/D67 2/D67 3/D67 4/D67 7/D67

B. DEMOLISH GUARD HOUSE (M7-0459A), FOUNDATION, CONCRETE SLABS, BOLLARDS, AND ASSOCIATED APPURTENANCES 1/D68 2/D68

C. DEMOLISH CHAIN LINK FENCE, POSTS, FOUNDATIONS, SECURITY GATES, AND ASSOCIATED APPURTENANCES 2/D67 7/D67

D. DEMOLISH ALUMINUM CANOPY, COLUMNS, AND ASSOCIATED APPURTENANCES. DEMOLISH COLUMNS TO 2" BELOW GRADE AND GROUT TO PAVEMENT LEVEL. SEE M7-0459 CANOPY PLAN AND CANOPY COLUMN DRAIN DEMOLITION DETAIL ON SHEET D70. 1/D67 2/D67 3/D67 4/D70 5/D70

E. DEMOLISH CHAIN LINK FENCE, POSTS, AND ASSOCIATED APPURTENANCES. CUT FENCE POSTS EVEN TO PAVEMENT SURFACE AND GROUT TO PAVEMENT LEVEL. 7/D67

TO REMAIN

A. BUILDING M7-0409 2/D67 3/D67 4/D67 7/D67

B. BUILDING M7-0409A 6/D67

C. CONCRETE PAVEMENT UNDER ALUMINUM CANOPY 1/D67 3/D67 4/D67

D. LIGHT POLE

E. FIRE HYDRANT AND BOLLARDS

F. ALUMINUM CANOPY. SEE M7-0459 CANOPY PLAN ON SHEET D70. 4/D67 4/D70

G. FENCING 5/D67 6/D67

H. CAN WASH

J. BOLLARDS 2/D67

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SYM	ZONE	DESCRIPTION	DATE	APPROVED

REVISIONS

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ST of LICENSURE: FL LICENSE NO: 69033	06/10/13
APPROVED D. TOTH	6/6/13
L. OTERO	6/10/13

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CLOSE/DEMOLISH FACILITIES AND STRUCTURES, VARIOUS LOCATIONS, PACKAGE 1

SITE PLAN BUILDINGS M7-0459 & M7-0459A

FILE NO.	SIZE	DWG. NO.	REV
	F	79K39389	

PROJ. NO. 97963.9 SHEET 23

D16

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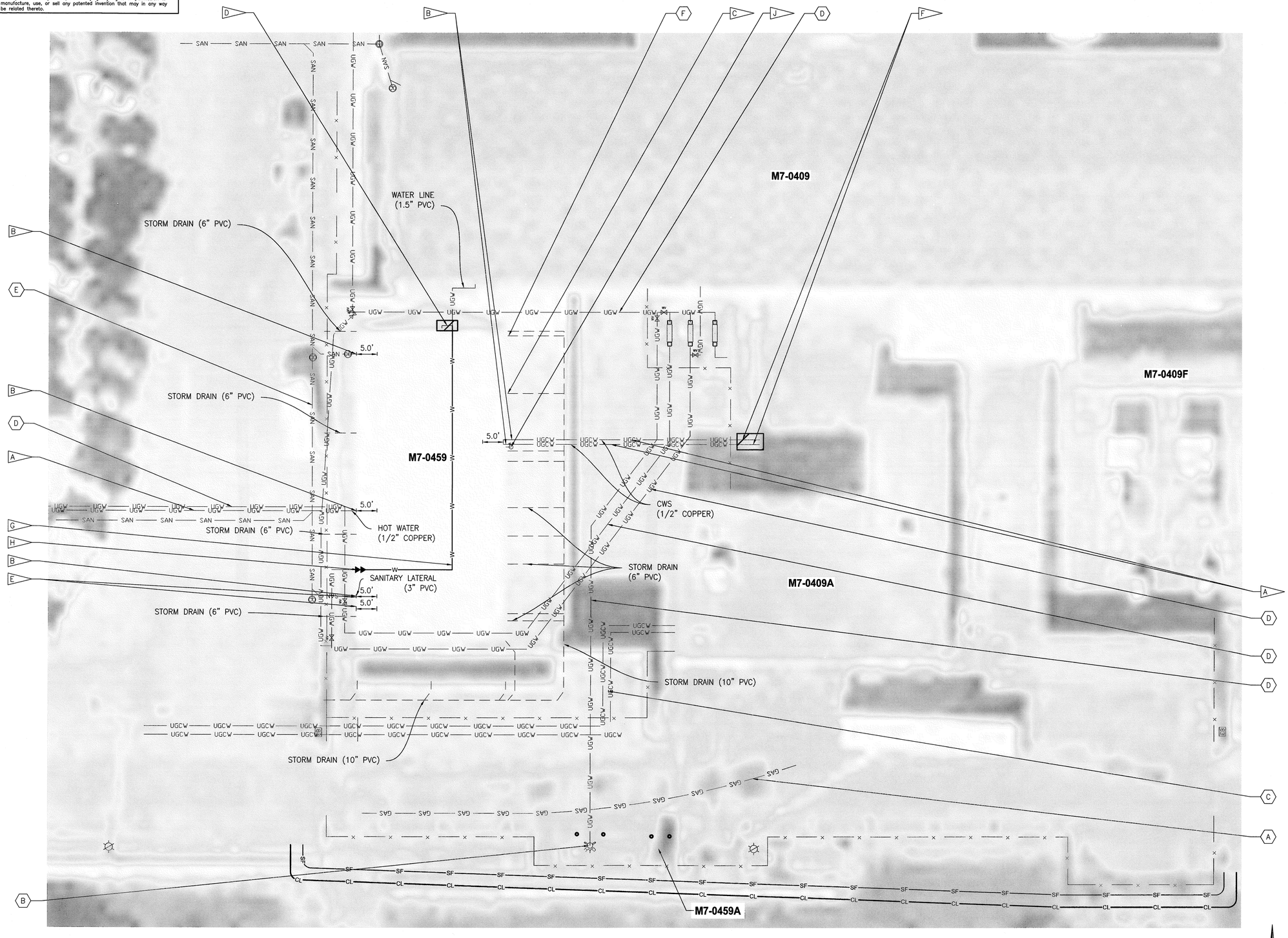

UTILITIES PLAN BUILDINGS M7-0459 & M7-0459A

1"=10'

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

FLAG NOTES

A. ABANDON UTILITIES IN PLACE UNDER EXISTING ASPHALT AND CONCRETE PAVEMENT TO REMAIN. THE EXISTING UTILITY SHALL BE CUT 5' FROM EDGE OF PAVEMENT. THE ENTIRE LENGTH OF PIPE UNDER PAVEMENT SHALL BE FILLED WITH NON-SHRINK GROUT AND THE ENDS OF THE PIPE SHALL BE CAPPED. 1/D69 4/D69

B. CAP PIPE 5' FROM EDGE OF PAVEMENT. 1/D69 4/D69

C. DEMOLISH ALUMINUM CANOPY DRAINS TO 2" BELOW GRADE AND GROUT TO PAVEMENT LEVEL (TYP). SEE M7-0459 CANOPY PLAN AND CANOPY COLUMN DRAIN DEMOLITION DETAIL ON SHEET D70. 4/D70 5/D70

D. DEMOLISH WATER LINE. REFEED LINE ENTERING BUILDING M7-0409. SEE M7-0459 ENLARGED WATER SERVICE PLAN ON SHEET D69. 5/D69

E. INSTALL RESTRAINED CAP 5' FROM EDGE OF PAVEMENT. 1/D69

F. DEMOLISH ABOVE GROUND CHILLED WATER SUPPLY AND RETURN LINES SERVICING BUILDING M7-0459. SEE M7-0459 CHILLED WATER LINE DEMOLITION PLAN ON SHEET D70. 2/D70 6/D67

G. INSTALL 1.5" PVC WATER LINE.

H. INSTALL 6" PLUG WITH A 1.5" TAP.

J. DEMOLISH DRINKING FOUNTAIN, PIPING, AND ASSOCIATED APPURTENANCES. 3/D67

TO REMAIN

A. GAS LINE
B. FIRE HYDRANT AND ASSOCIATED PIPING
C. CHILLED WATER SUPPLY AND RETURN LINES
D. WATER LINE
E. SANITARY SEWER
F. ALUMINUM CANOPY DRAIN AND ASSOCIATED PIPING

THIS SPACE RESERVED

SYM	ZONE	DESCRIPTION	DATE	APPROVED

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SIGNATURES	DATE
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CHECKED K. RIVERA	06/10/13
SUBMITTED K. BELL	06/10/13
ST of LICENSURE: FL LICENSE NO: 69033	06/10/13
APPROVED D. TOTH	6/14/13
I. OTERO	

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CLOSE/DEMOLISH FACILITIES AND STRUCTURES, VARIOUS LOCATIONS, PACKAGE 1

UTILITIES PLAN BUILDINGS M7-0459 & M7-0459A

FILE NO.	SIZE	DWG. NO.	REV
	F	79K39389	
PROJ. NO. 97963.9		SHEET 24	

D17

FILE: \\titusnt01\drafting\14000 Nasa\212-01_Design-Close-Demo-Ver-Face-FY13&14\Control Drawings\Package 1\Civil\14000212P1-D17.dwg PRINTED: 6/10/2013 2:15 PM, BY USER: Kristian Perez LAST MODIFIED: 5/21/2013 10:19 AM, BY USER: KPerez

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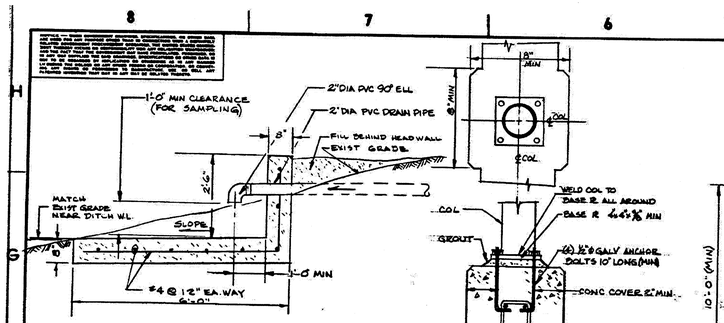
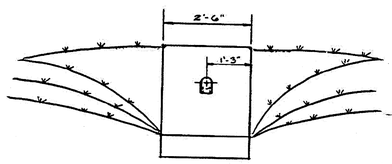
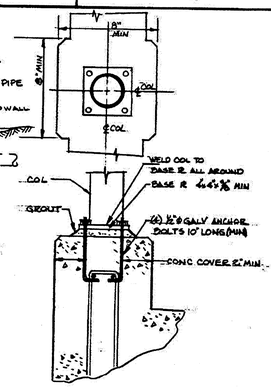


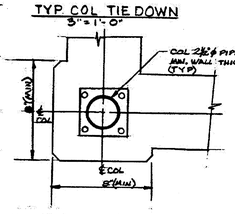
HEADWALL SECTION
3/4" = 1'-0"

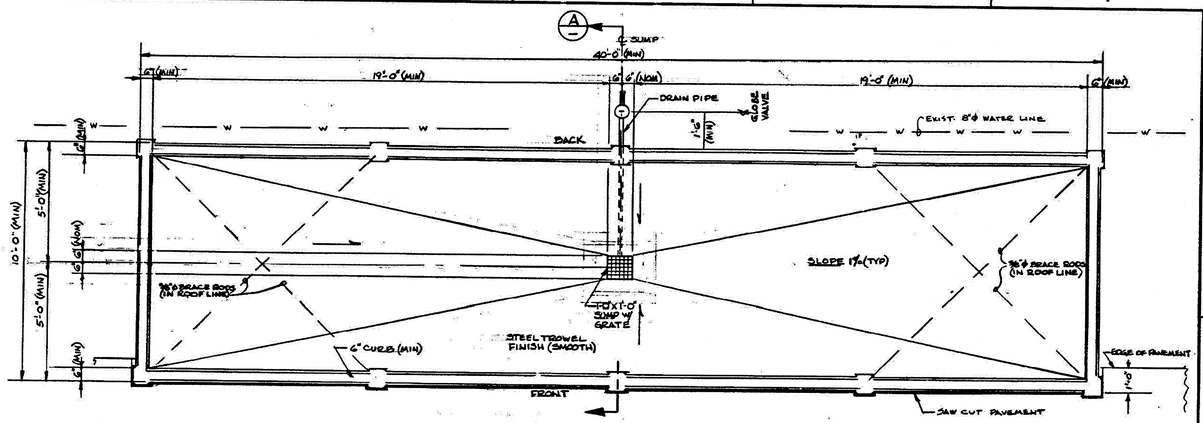


HEADWALL FRONT VIEW.

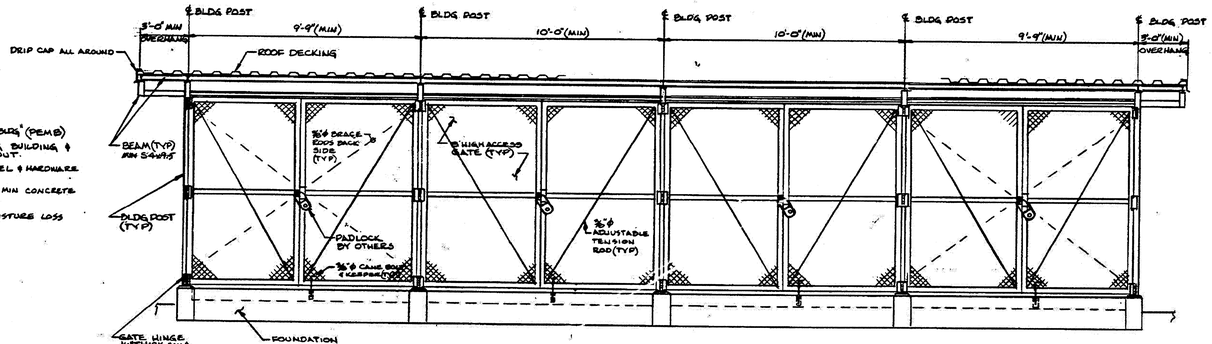


TYP COL TIE DOWN
3" = 1'-0"





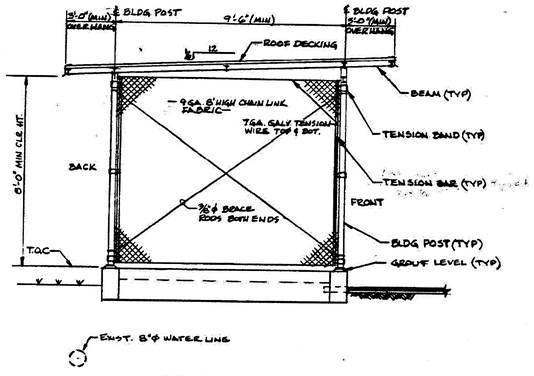
FOUNDATION PLAN
1/2" = 1'-0"



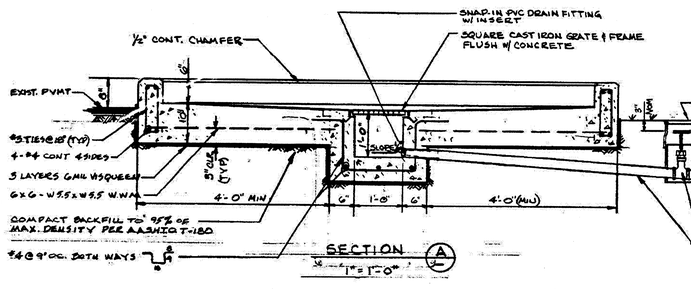
FRONT ELEVATION
1/2" = 1'-0"
(SUMP NOT SHOWN FOR CLARITY)

NOTES

1. STRUCTURE SHOWN IS A "PREENGINEERED METAL BLDG" (PEMB)
2. CONTRACTOR IS RESPONSIBLE FOR COORDINATING BUILDING & FOUNDATION DIMENSIONS & ANCHOR BOLT LAYOUT.
3. STRUCTURAL STEEL, BOLTS, NUTS, WASHERS, MISC STEEL & HARDWARE SHALL BE HOT DIPPED GALVANIZED.
4. ANCHOR BOLTS & REINFORCING STEEL SHALL HAVE 2" MIN CONCRETE COVER ABOVE GRADE; 3" COVER BELOW GRADE
5. EXPOSED CONCRETE SHALL BE PROTECTED FROM MOISTURE LOSS FOR 7 DAYS & SEALED PER SPECS.



SIDE ELEVATION
1/2" = 1'-0"



SECTION A
1" = 1'-0"

NOTE
DRAIN VALVE IS NORMALLY CLOSED. SPILLS ARE TO BE PUMPED INTO TANK TRUCK. VALVE IS TO BE OPENED FOR DRAINING RINSE WATER OR RAIN WATER ONLY AFTER SAMPLING & APPROVAL BY MD

SYM	ZONE	DESCRIPTION	DATE	APPROVED

REVISIONS

SIGNATURES	DATE
DRAWN CAW	
CHECKED	
ENGINEER	
SUBMITTED	
APPROVED	DATE
TITLE	

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KENNEDY SPACE CENTER, FLORIDA

KSC INDUSTRIAL AREA, BLDG M7-863
CHEMICAL DRUM STORAGE FAC.
PLAN & DETAILS

SIZE F | DWG. NO. 79K27030 | REV
PROJ. NO. PCN 90367 | SHEET 2

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APPROVED D. TOTH	6/10/13
L. OTERO	6/11/13

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

CLOSE/DEMOLISH FACILITIES AND STRUCTURES, VARIOUS LOCATIONS, PACKAGE 1

BUILDING M7-0862 AS-BUILTS

FILE NO. | SIZE F | DWG. NO. 79K39389 | REV
PROJ. NO. 97963.9 | SHEET 25

D18

FILE: \\thumdrv1\Vertfiles\14000 Nasa\212-01_Design-Close-Demo-Var-Facs-FY13&14\Contract Drawings\Package 1\Dwg\14000212P1-D18.dwg PRINTED: 6/10/2013 2:15 PM, BY USER: Kristian Perez LAST MODIFIED: 4/15/2013 8:20 AM, BY USER: CCoffey

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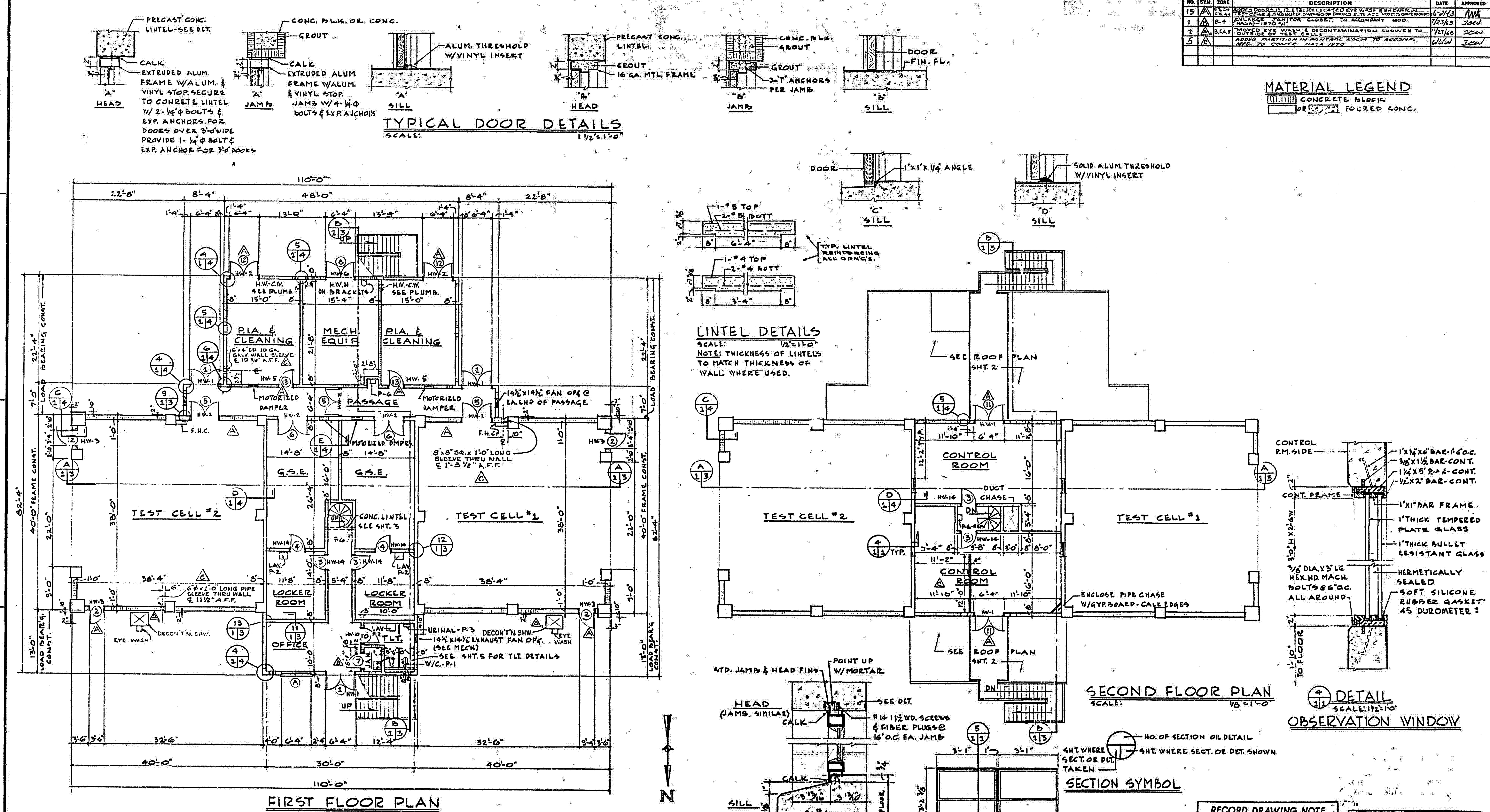
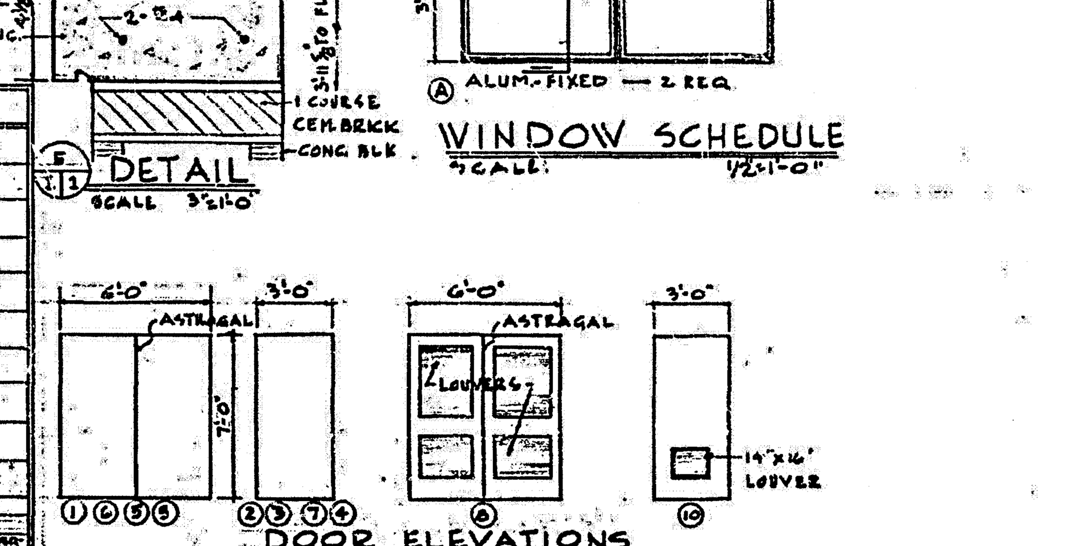
REVISIONS					
NO.	SYM.	ZONE	DESCRIPTION	DATE	APPROVED
15	A	C3,C4 C5,A5	ADDED DOORS 11, 12 & 13; RELOCATED EYE WASH & SHOWER IN TEST CELLS & CHANGED SWINGS OF DOORS 8. TO ACC. MOD. CONTRACT	6-21-63	
1	B	B-4	ENLARGE JANITOR CLOSET. TO ACCOMPANY MOD. (NASA)-1970 "H"	7/23/65	
2	A	B,C4,5	MOVED EYE WASH & DECONTAMINATION SHOWER TO OUTSIDE OF TEST CELLS	11/27/66	
5	C		ADDED PARTITION IN CONTROL ROOM TO ACCOMP. MOD. TO CONTR. NASA 1970		

MATERIAL LEGEND

CONCRETE BLOCK

OR POURED CONC.





NOTE: ALL INTERIORS TO BE PAINTED ACCORDING TO SPEC'S.

ROOM FINISH SCHEDULE

AREA	FLOOR	BASE	WALLS	CEILING	REMARKS
TEST CELL #1 & 2	CONCRETE W/ SPARKPROOF TOP	—	CONC. BLK. & CONC.	*GYP. BOARD	*CLEAN RM. SEE SUSPENSION DET.
G.S.E.	VINYL ASB. T	RUBBER	CONC. BLK. & CONC.	*GYP. BOARD	* "
LOCKER RM'S.	"	"	"	* "	* "
OFFICE	"	"	CONC. BLK	*ACOUS. TILE	* "
TOILET	CERAMIC TILE	CER. TILE	CONC. BLK & 4'-0" CER. TILE	*GYP. BOARD	*SEE DET. & SPEC'S.
P.I.A. & CLEANING	VINYL SHT	RUBBER	CONC. BLK	*GYP. BOARD	*CLEAN RM. SEE SUSPENSION DET.
PASSAGE	VINYL ASB. T.	"	"	* "	* "
MECH. EQUIP.	CONC.	"	"	* NONE	*SEE PAINT'G SPECS.
CONTROL RM'S.	VINYL ASB. T.	RUBBER	CONC. BLK. CONC. & GYP. BD.	*GYP. BOARD	*SEE SUSPENSION DET.
JANITOR	"	"	CONC. BLK.	* "	* "

NOTE: ALL MASONRY DIMENSIONS REFER TO NOMINAL SIZES.

DOOR SCHEDULE

MARK	SIZE	TYPE	FRAME	THRESH'LD.	CLOSER	REMARKS
1	PR. 3'-0"x7'-0"x1¾"	HOL. ALUM	TYPE "A"	TYPE "A"	YES-EACH LEAF	WEATHERSTRIP
2	3'-0"x7'-0"x1¾"	"	"	"	YES, 1 ACTIVE LEAF	"
3	3'-0"x7'-0"x1¾"	WOOD, H.C.	TYPE "B"	"	YES	"
4	3'-0"x7'-0"x1¾"	"	"	TYPE "B"	No	
5	PR 3'-0"x7'-0"x1¾"	HOL. ALUM.	TYPE "A"	TYPE "D"	YES, 1 ACTIVE LEAF	WEATHERSTRIP
6	PR 3'-0"x7'-0"x1¾"	WOOD S.C.	TYPE "B"	TYPE "D"	YES, 1 ACTIVE LEAF	"
7	3'-0"x7'-0"x1¾"	WOOD, H.C.	TYPE "B"	TYPE "B"	No	OMIT CLOSER
8	PR 3'-0"x7'-0"x1¾"	HOL. ALUM.	TYPE "A"	TYPE "C"	NO	LOUVERED
9	PR. 3'-0"x7'-0"x1¾"	HOL. ALUM	"	TYPE "A"	YES, 1 ACTIVE LEAF	NO EXT. HARDWARE WEATHERSTRIP
10	3'-0"x7'-0"x1¾"	WOOD S.C.	TYPE "B"	MARBLE	YES	14"x16" LOUVER
11	3'-6"x7'-0"x1¾"	HOL. ALUM.	TYPE "A"	TYPE "D"	YES, 1 ACTIVE	WEATHERSTRIP
12	3'-6"x7'-0"x1¾"	"	"	TYPE "A"	[illegible]	NO EXT. HARDWARE, WEATHER[illegible]
13	3'-6"x7'-0"x1¾"	"	"	[illegible]	[illegible]	WEATHERSTRIP

RECORD DRAWING NOTE
'Shall be,' 'Provide,' 'Install,' 'Remove,' etc. indicates work was accomplished under the contract.

AS BUILT
APPROVED BY [signature]
DATE 11 August 1964

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
LAUNCH OPERATIONS CENTER

TAMPA BAY ENGINEERING CO.
151 TREASURE ISLAND CWY.
ST. PETERSBURG 6, FLA.

U. S. ARMY ENGINEER DISTRICT, JAX.
CORPS OF ENGINEERS
JACKSONVILLE, FLA.

NASA MERRITT ISLAND LAUNCH AREA
MERRITT ISLAND, FLA.
FLUID TEST COMPLEX
ENVIRONMENTAL CONTROL SYSTEMS BLDG.
ARCHITECTURAL FLOOR PLANS & DETAILS

DWN BY C.P.C. | CHK BY O.C.R.S.
INV. NO. ENG. (NASA) 08-123-63-15 | SIZE F | FILE NO. 203-28,155
DATED: 5 MARCH 1963
SCALE: AS NOTED | DATED: 2-15-63 | SHEET 2 OF

D. O. File No. 203-28.155

THIS SPACE RESERVED

SYM	ZONE	DESCRIPTION	DATE	APPROVED
		REVISIONS		

THIS DRAWING CREATED IN AUTOCAD 2007 FILE FORMAT AND WILL BE REVISED ONLY ON AN AUTOCAD SYSTEM. FILE: 14000212P1-D19.DWG

JONES EDMUNDS
730 NE WALDO ROAD, GAINESVILLE, FLORIDA 32641 / (352) 377-5821
3910 S WASHINGTON AVE, SUITE 210, TITUSVILLE, FLORIDA 32780 / (321) 269-2950

SIGNATURES	DATE
DRAWN C. COFFEY	06/10/13
CHECKED K. RIVERA	06/10/13
SUBMITTED J. BELL	06/10/13
ST of LICENSURE: FL LICENSE NO: 69033	06/10/13
APPROVED D. TOTH	6/10/13
I. OTERO	

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

CLOSE/DEMOLISH FACILITIES AND STRUCTURES, VARIOUS LOCATIONS, PACKAGE 1

BUILDING M7-0961 AS-BUILTS

FILE NO. | SIZE F | DWG. NO. 79K39389 | REV
PROJ. NO. 97963.9 | SHEET 26

D19

FILE: \\titusmd01\plotting\14000 Nasa\212-01_Design-Close-Demo-Var-Facs-FY13&14\Contract Drawings\Package 1\Civil\14000212P1-D19.dwg PRINTED: 6/10/2013 2:15 PM, BY USER: Kristian Perez LAST MODIFIED: 4/15/2013 8:21 AM, BY USER: CCoffey

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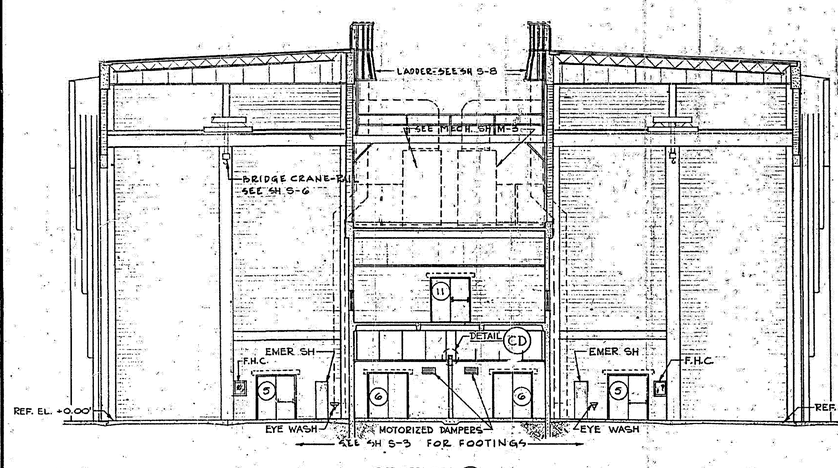
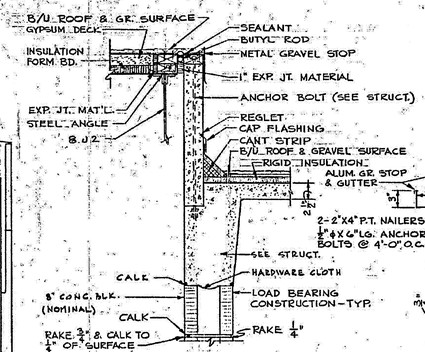
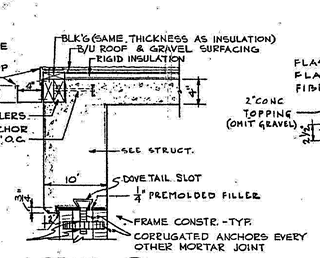
REVISIONS					
NO.	SYM.	ZONE	DESCRIPTION	DATE	APPROVED
2	2	E-6 B-5	ADDED CEILING ACCESS PANELS TO ACCOM. MOD. TO CONTROL ROOM.	9/23/13	
1	1		ADDED CONTROL ROOM PARTITION + DETAIL TO ACCOMD. MOD. TO ROUTE. MAR 1975.	4/4/14	
1	1		UP-DATED FOR "FRD" -ADDED NEW BLDG. ADDITION	1/14/65	



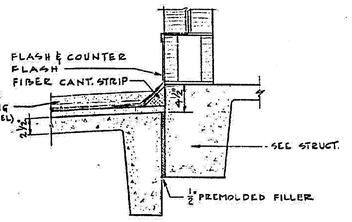
SECTION A (A-1)
1/8" = 1'-0"



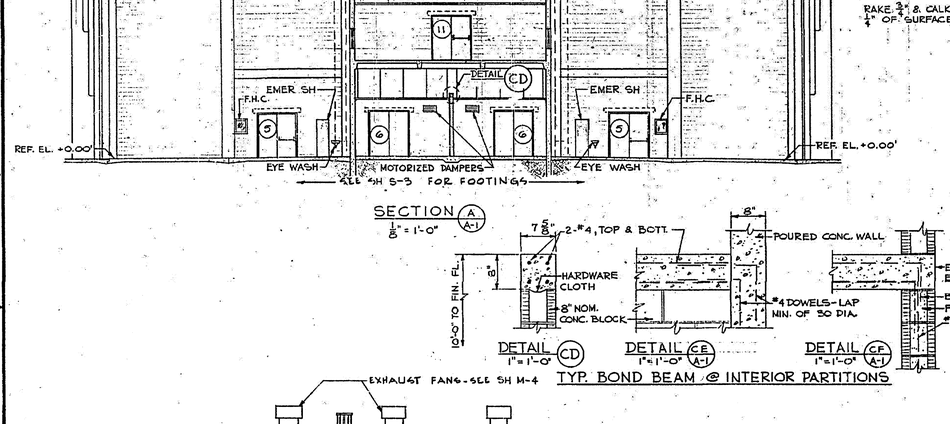
SECTION C (A-1)
1½" = 1'-0"



DETAIL CA (AS SHOWN)
DETAIL CB (OPPOSITE HAND)
1½" = 1'-0"



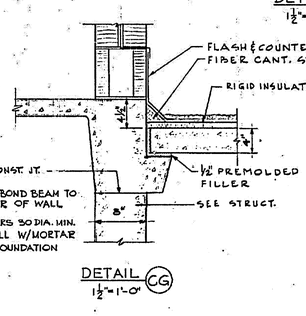
DETAIL CC
1½" = 1'-0"



SECTION B (A-1)
1/8" = 1'-0"

NOTE: FOR HEIGHTS & OTHER DIMENSIONS SEE FLOOR PLANS & SECTIONS

DETAIL CD (1" = 1'-0") DETAIL CE (A-1) (1" = 1'-0") DETAIL CF (A-1) (1" = 1'-0")
TYP. BOND BEAM @ INTERIOR PARTITIONS



DETAIL CG
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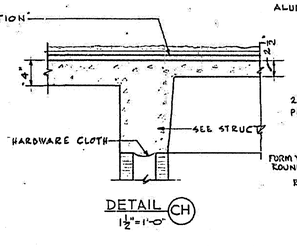
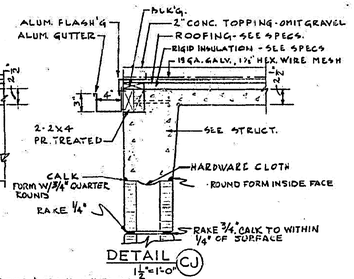
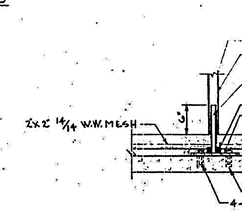


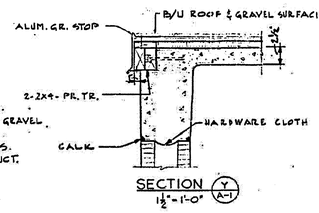
DETAIL CH
1½" = 1'-0"



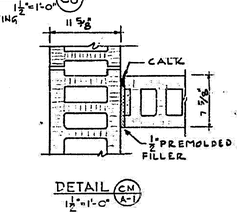
DETAIL CJ
1½" = 1'-0"



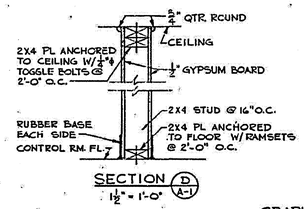
DETAIL CK
1½" = 1'-0"



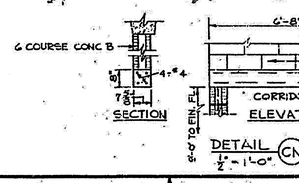
SECTION Y (A-1)
1½" = 1'-0"



DETAIL CM (A-1)
1½" = 1'-0"

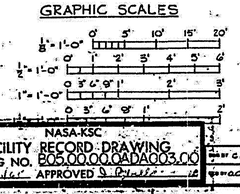


SECTION D (A-1)
1½" = 1'-0"



SECTION
ELEVATION
DETAIL CN (LINTEL @ SPIRAL STAIRS)
1½" = 1'-0"

GRAPHIC SCALES



NASA-KSC
FACILITY RECORD DRAWING
DRAWING NO. 205.00.00.0ADA003.00
DATE 5/MAR/63 APPROVED S. Powell

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
LAUNCH OPERATIONS CENTER

TAMPA BAY ENGINEERING CO. 151 TREASURE ISLAND CSWY. ST. PETERSBURG 6, FLA.	U. S. ARMY ENGINEER DISTRICT, JAX. CORPS OF ENGINEERS JACKSONVILLE, FLA.

NASA MERRITT ISLAND LAUNCH AREA
MERRITT ISLAND, FLA.
LIFE SUPPORT TEST
SECTIONS & DETAILS

INST. NO. ENG. (NASA) 80-133-63-335	SIZE F	FILE NO. 203-28, 155
DATED: 5 MARCH 1963		
SCALE: AS SHOWN	DATED: 2-15-63	SHEET 203 OF

THIS SPACE RESERVED

SYM	ZONE	DESCRIPTION	DATE	APPROVED

REVISIONS

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3910 S WASHINGTON AVE, SUITE 210, TITUSVILLE, FLORIDA 32780 / (321) 269-2950

SIGNATURES	DATE
DRAWN C. COFFEY	06/10/13
CHECKED K. RIVERA	06/10/13
SUBMITTED J. BELL	06/10/13
ST of LICENSURE: FL LICENSE NO: 69033	06/10/13
APPROVED D. TOTH	6/10/13
L. OTERO	12/13

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

CLOSE/DEMOLISH FACILITIES AND STRUCTURES, VARIOUS LOCATIONS, PACKAGE 1

BUILDING M7-0961 AS-BUILTS

FILE NO.	SIZE F	DWG. NO. 79K39389	REV
PROJ. NO. 97963.9		SHEET 27	

D20

1 24-F

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

FILE: \\Itsumdf01\drafting\140002 Nasa\212-01_Design-Close-Demo-Wor-Facs-FY13&14\Contract Drawings\Package 1\Cad\140002I2P1-D20.dwg PRINTED: 6/10/2013 2:16 PM, BY USER: Kristian Perez LAST MODIFIED: 4/15/2013 8:21 AM, BY USER: Coffey

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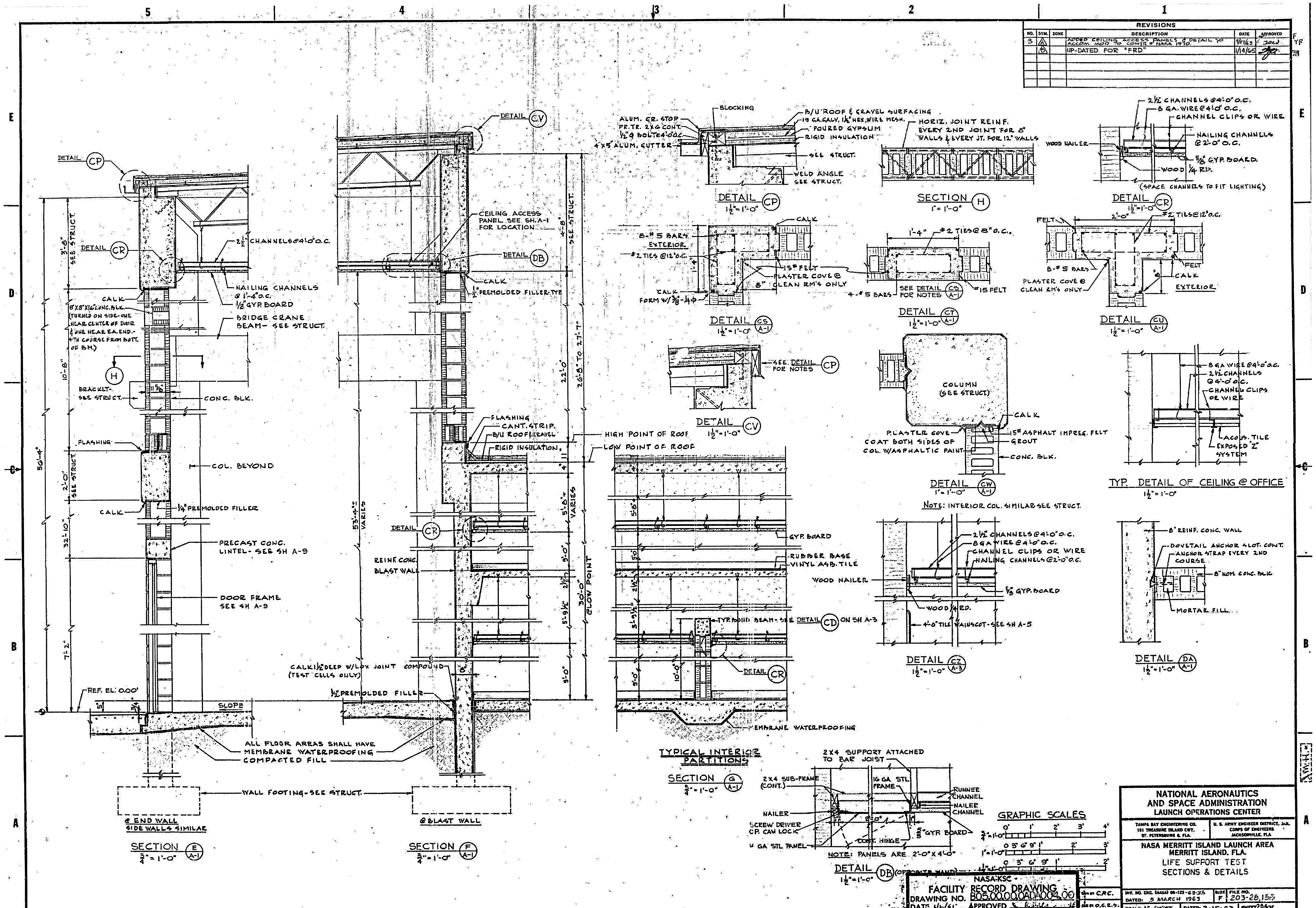

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SYM	ZONE	DESCRIPTION	DATE	APPROVED
		REVISIONS		

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3910 S WASHINGTON AVE, SUITE 210, TITUSVILLE, FLORIDA 32780 / (321) 269-2950

SIGNATURES	DATE
DRAWN C. COFFEY	06/10/13
CHECKED K. RIVERA	06/10/13
SUBMITTED BELL	06/10/13
ST of LICENSURE: FL LICENSE NO: 69033	06/10/13
APPROVED D. TOTH	6/11/13
I. OTERO	

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KENNEDY SPACE CENTER, FLORIDA

CLOSE/DEMOLISH FACILITIES AND STRUCTURES, VARIOUS LOCATIONS, PACKAGE 1

BUILDING M7-0961 AS-BUILTS

FILE NO.	SIZE	DWG. NO.	REV
	F	79K39389	

PROJ. NO. 97963.9 SHEET 28

D21

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

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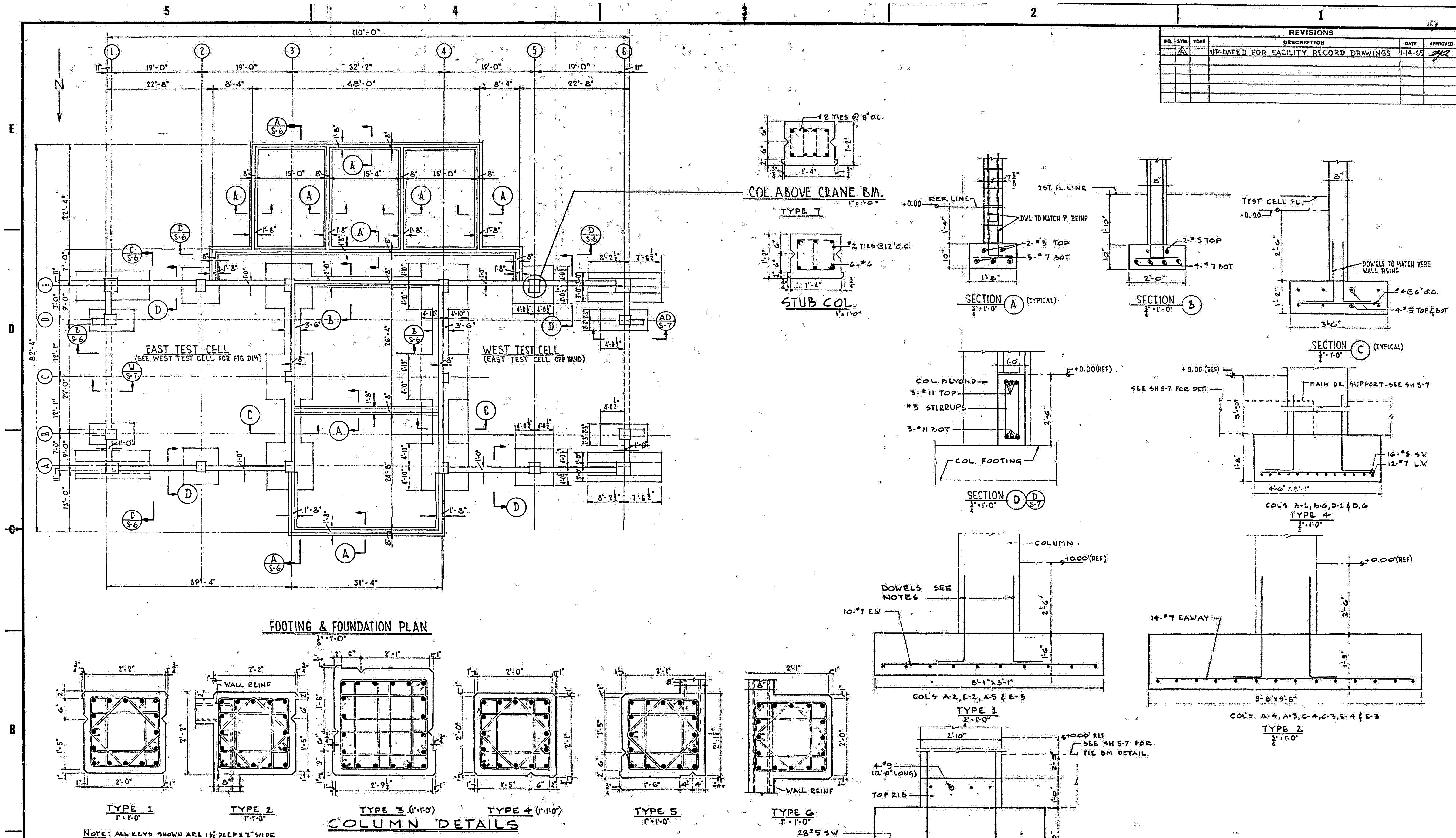
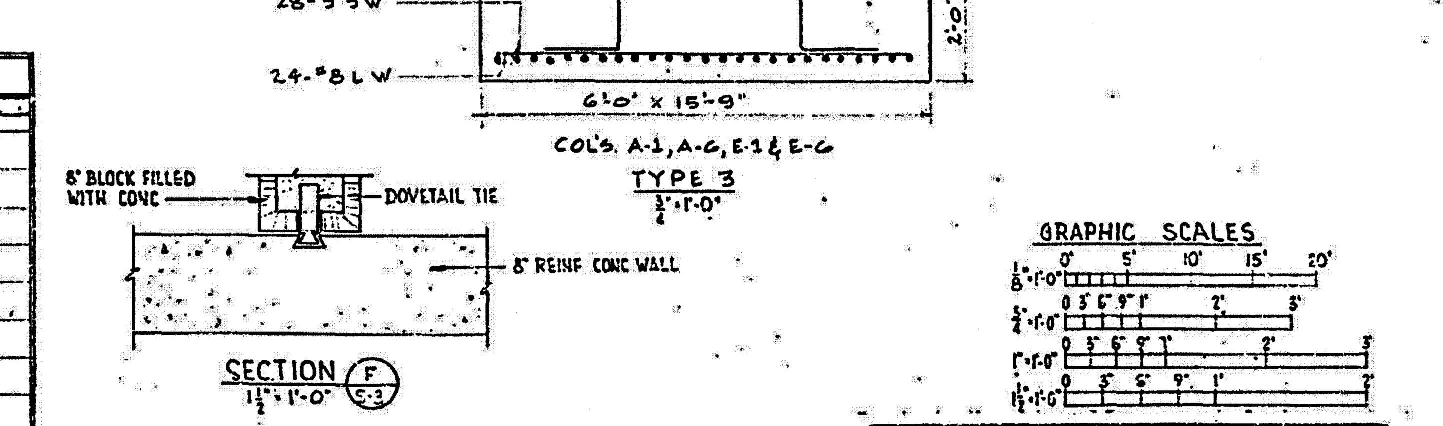
NO.	SYM.	ZONE	REVISIONS DESCRIPTION	DATE	APPROVED
			UP-DATED FOR FACILITY RECORD DRAWINGS	1-14-65	



NOTE: ALL KEYS SHOWN ARE 1½" DEEP x 3" WIDE
ALL LOADS IN SCHEDULE ARE IN KIPS.



COLUMN FOOTING & LOAD SCHEDULE

MARK	A-1	A-2	A-3	A-4	A-5	A-6	B-1	B-6	C-3	C-4
LIVE LOAD	22.5	13.3	14.5	14.5	13.3	22.5	0	0	19.6	19.6
DEAD LOAD	239.0	165.5	246.9	246.9	165.5	239.0	100.4	100.4	238.0	238.0
WIND LOAD	51.0	0	34.0	34.0	0	51.0	0	0	0	0
TOTAL LOAD	312.5	178.8	295.4	295.4	178.8	312.5	100.4	100.4	257.6	257.6
TYPE	3	1	2	2	1	3	4	4	2	2
MARK	D-1	D-6	E-1	E-2	E-3	E-4	E-5	E-6		
LIVE LOAD	0	0	22.5	13.9	14.5	14.5	13.9	22.5		
DEAD LOAD	100.4	100.4	239.0	167.3	246.9	246.9	167.3	239.0		
WIND LOAD	0	0	51.0	0	34.0	34.0	0	51.0		
TOTAL LOAD	100.4	100.4	312.5	181.2	295.4	295.4	181.2	312.5		
TYPE	4	4	3	1	2	2	1	3		

COLUMN SCHEDULE

MARK	TYPE FROM GROUND FLOOR TO +40'-0"	+43'-4"	+53'-8"		SIZE	REINF STEEL VERT	REINF STEEL TIES
A-2, E-2, A-5, E-5	1	1			26"x26"	16-#11	#3@18"
E-3, E-4	2	2	2		26"x26"	16-#11	#3@18"
A-1, E-1, A-6, E-6	3	3	3		34"x34"	20-#11	#3@18"
B-1, D-1, B-6, D-6	4				26"x26"	16-#9	#3@18"
A-3, A-4	5	5	5		26"x26"	16-#11	#3@18"
C-3-C-4	6	6	6		26"x26"	16-#9	#3@18"
A-2, E-2, A-5, E-5			7		14"x16"	4-#10 4-#8	#2@8"
B-1, D-1, B-6, D-6			STUB COL.		14"x16"	6-#6	#2@12"

NASA-KSC
FACILITY RECORD DRAWING
DRAWING NO. B05.00.00.0ADS001.00
DATE [illegible] APPROVED [illegible]

DWN BY SPC
CKD BY G.L.J.

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
LAUNCH OPERATIONS CENTER

TAMPA BAY ENGINEERING CO.
151 TREASURE ISLAND CWY.
ST. PETERSBURG 6, FLA.

U. S. ARMY ENGINEER DISTRICT, JAX.
CORPS OF ENGINEERS
JACKSONVILLE, FLA.

NASA MERRITT ISLAND LAUNCH AREA
MERRITT ISLAND, FLA.
LIFE SUPPORT TEST
FOUNDATION PLAN & DETAILS

INV. NO. ENG. (NASA) 00-123-63-35
DATED: 5 MARCH 1963
SIZE F
FILE NO. 203-28,155
SCALE: AS NOTED
DATED: 2-15-63
SHEET 206 OF

24-F

THIS SPACE RESERVED

SYM	ZONE	DESCRIPTION	DATE	APPROVED

REVISIONS

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3910 S WASHINGTON AVE, SUITE 210, TITUSVILLE, FLORIDA 32780 / (321) 269-2950

SIGNATURES	DATE
DRAWN C. COFFEY	06/10/13
CHECKED K. RIVERA	06/10/13
SUBMITTED J. BELL	06/10/13
ST of LICENSURE: FL LICENSE NO: 69033	06/10/13
APPROVED D. TOTH	6/10/13
I. OTERO	JUN 12/13

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

CLOSE/DEMOLISH FACILITIES AND STRUCTURES, VARIOUS LOCATIONS, PACKAGE 1

BUILDING M7-0961 AS-BUILTS

FILE NO. | SIZE F | DWG. NO. 79K39389 | REV
PROJ. NO. 97963.9 | SHEET 29

D22

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REVISIONS					
NO.	SYM	ZONE	DESCRIPTION	DATE	APPROVED
2	2		ADDED PIT IN MECHANICAL ROOM TO ACCOMPANY MOD. TO CONTRACT NO. 1975	9/1/93	
3	3		RELOCATE MACH. PIT AND ADD SECTION D-D	11/1/93	
4	4		RAISE A/C PAD 'G'	7/9/14	
	5		UP-DATED FOR FACILITY RECORD DRAWINGS	4 JAN 95	

FIRST FLOOR PLAN
SCALE 1/8"=1'FT.

SECTION 'C-C'
SCALE 3/4"=1'FT.

SECTION 'D-D'
SCALE 3/4"=1'FT.

SECTION 'E-E'

SECTION 'G-G'
SCALE 1/4"=1'-0"

SECTION 'A-A'
SCALE 3/4"=1'FT.

SECTION B-B
SCALE 3/4"=1'-0"

SECTION 'L-L'

SECTION 'M-M'

SECTION 'H-H'

SECTION 'K-K'

SECTION 'J-J'

SECTION P-P

PLAN

ELEVATION

DETAIL OF CIRCULAR STAIRWAY
SCALE 1/2"=1'FT

CONC. PAD FOR A/C #4 & 5
SCALE 1/4"=1'-0"
NOTE - VERIFY ALL DIMENSIONS & LOCATION IN FIELD

CONC. PAD FOR A/C #8
SCALE 1/4"=1'-0"
NOTE - VERIFY ALL DIMENSIONS IN FIELD

CONC. PAD FOR A/C #9
SCALE 1/4"=1'-0"
NOTE VERIFY ALL DIMENSIONS IN FIELD

CONC. PAD FOR A/C #7
SCALE 1/4"=1'-0"
NOTE VERIFY ALL DIMENSIONS IN FIELD

CONC. PAD FOR A/C #6. A/C #5 SAME BUT OPPOSITE HAND

GRAPHIC SCALES

4" STD WT PIPE COLUMN
16 TREADS PER CIRCLE
30" RADIUS STAIRWAY
SQUARE LANDING PLATFORM
5/16" ABRASIVE SURFACE TREADS
1¼" STD PIPE RAIL
34" BALUSTER 1 PER 3 TREADS
STAIRWAY RIGHT HAND
IRON TREADS & PLATFORM

NOTE: SEE SH S-7 FOR STRUCT. NOTES.

THIS SPACE RESERVED

SYM	ZONE	DESCRIPTION	DATE	APPROVED

REVISIONS

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LAUNCH OPERATIONS CENTER

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U. S. ARMY ENGINEER DISTRICT, JAX. CORPS OF ENGINEERS JACKSONVILLE, FLA.

NASA MERRITT ISLAND LAUNCH AREA
MERRITT ISLAND, FLA.
LIFE SUPPORT TEST
PLAN & SECTIONS

INV. NO. ENG. (NASA) 08-123-1-33 DATED: 5 MARCH 1968 SCALE: AS NOTED

SIZE F FILE NO. 203-28,155 DATED: 2-15-63 SHEET 29 OF

NASA-KSC
FACILITY RECORD DRAWING
DRAWING NO. B05.00.00.QADS003.00
DATE 5/1/95 APPROVED

DRN SND CHK G.L.J.

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SIGNATURES	DATE
DRAWN C. COFFEY	06/10/13
CHECKED K. RIVERA	06/10/13
SUBMITTED BELL	06/10/13
ST of LICENSURE: FL LICENSE NO: 69033	06/10/13
APPROVED D. TOTH	6/10/13
I. OTERO	6/10/13

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

CLOSE/DEMOLISH FACILITIES AND STRUCTURES, VARIOUS LOCATIONS, PACKAGE 1

BUILDING M7-0961 AS-BUILTS

FILE NO.	SIZE	DWG. NO.	REV
	F	79K39389	

PROJ. NO. 97963.9 SHEET 30

D23

24-F

FILE: \\Iltumd01\grafting\14000 Nasa\212-01_Design-Close-Demo-Var-Facs-FY13\614\Contract Drawings\Package 1\Civil\140002121P1-D23.dwg PRINTED: 6/10/2013 2:16 PM, BY USER: Kristen Perez LAST MODIFIED: 4/15/2013 8:21 AM, BY USER: Coffey

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

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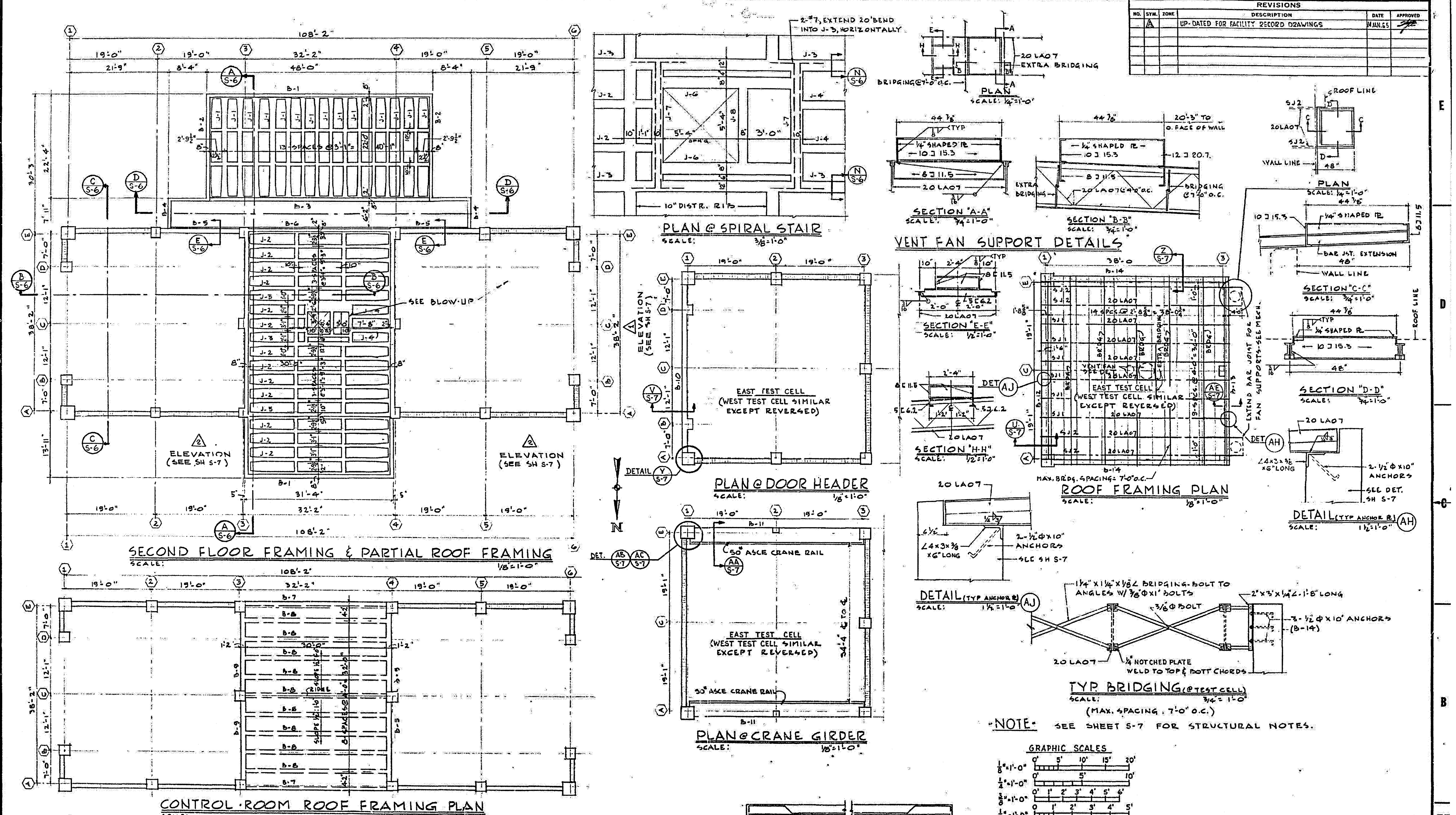
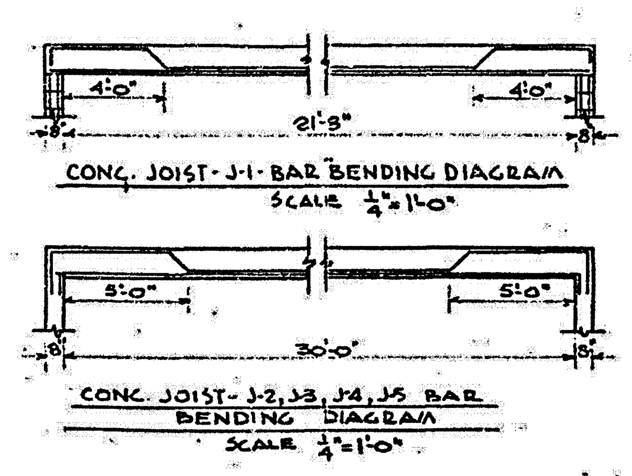
REVISIONS

NO.	SYM.	ZONE	DESCRIPTION	DATE	APPROVED
	A		UP-DATED FOR FACILITY RECORD DRAWINGS		



NOTE: SEE SHEET S-7 FOR STRUCTURAL NOTES.

GRAPHIC SCALES



BEAM SCHEDULE

MARK	SIZE	BOTTOM STEEL STRAIGHT	BOTTOM STEEL TRUSSED	TOP STEEL		STIRRUPS SIZE	STIRRUPS SPACING EACH END	REMARKS
B-1	8"x16"	2-#7	———	2-#7	———	#2	18" O.C.	
B-2	REMARKS	"	———	"	———	"	"	8"x16" TO 8"x28"
B-3	8"x16"	"	———	"	———	"	"	
B-4	REMARKS	"	———	"	———	"	"	8"x16" TO 8"x19½"
B-5	12"x16"	"	———	"	———	"	"	
B-6	8"x20½"	"	———	"	———	"	"	
B-7	10"x16"	"	———	"	———	"	"	
B-8	12"x18"	3-#11	———	3#9	———	#3	2@4",2@6",2@8",2@10" BAL@12"	
B-9	14"x20"	3-#10	———	3#10	———	"	"	
B-10	14"x24"	2-#10	———	2-#7	———	"	"	SEE ELEVATIONS SH S-7
B-11	42"x24"	5-#11	———	7-#10	1-#10	"	"	SEE DETAIL SH S-7
B-12	18"x44"	5-#11, 3-#10	———	5-#11	3-#10	"	"	" " " "
B-13	14"x56"	3-#7	———	3-#7	———	"	"	4-#4 BARS EA. FACE
B-14	REMARKS	3-#8	———	3-#8	———	"	"	14"x41" TO 14"x61"
B-15	17"x30"	5-#11	———	5-#11	———	"	"	
B-16	12"x30"	3-#11	———	3-#11	———	"	"	

STEEL JOIST SCHEDULE

MARK	SIZE	DESCRIPTION
SJ1	20LA07	
SJ2	20LA07	EXTEND 3'-6" FOR FAN SUPPORT

CONCRETE JOIST SCHEDULE

MARK	SIZE	SLAB	JOIST REINFORCING BOTT.	JOIST REINFORCING TRUSSED	JOIST REINFORCING TOP	SLAB REINF.
J-1	7"x14"	+2½"	1-#9	1-#9	1-#9	6"x6" 4/4 W.W.M.
J-2	7"x14"	+2½"	1-#9	1-#9	1-#9	6"x6" 4/4 W.W.M.
J-3	12"x14"	+2½"	2-#9	2-#9	2-#9	6"x6" 4/4 W.W.M.
J-4	10"x14"	+2½"	1-#9	1-#9	1-#9	6"x6" 4/4 W.W.M.
J-5	15"x14"	+2½"	2-#9	2-#9	2-#9	6"x6" 4/4 W.W.M.
J-6	8"x14"	+2½"	2-#7	———	2-#7	6"x6" 4/4 W.W.M.
J-7	10"x14"	+2½"	2-#7	———	2-#7	6"x6"x4/4 W.W.M.
J-8	8"x14"	+2½"	2-#7	———	2-#7	6"x6"x4/4 W.W.M.

NASA-KSC
FACILITY RECORD DRAWING
DRAWING NO. 805.00.00.00ADS004.00
DATE 6/21/65 APPROVED

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
LAUNCH OPERATIONS CENTER

TAMPA BAY ENGINEERING CO. 151 TREASURE ISLAND CWY. ST. PETERSBURG 6, FLA.
U. S. ARMY ENGINEER DISTRICT, JAX. CORPS OF ENGINEERS JACKSONVILLE, FLA.

NASA MERRITT ISLAND LAUNCH AREA
MERRITT ISLAND, FLA.
LIFE SUPPORT TEST
SECOND FLOOR AND ROOF PLAN

DWG. NO. ENG. (NASA) 66-123-63-35 | SIZE F | FILE NO. 203-28,155
DATED: 5 MARCH 1963
SCALE: AS NOTED | DATED: 2-15-63 | SHEET 20 OF

24-F

THIS SPACE RESERVED

SYM	ZONE	DESCRIPTION	DATE	APPROVED

REVISIONS

THIS DRAWING CREATED IN AUTOCAD 2007 FILE FORMAT AND WILL BE REVISED ONLY ON AN AUTOCAD SYSTEM. FILE: 14000212P1-D24.DWG

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ST of LICENSURE: FL LICENSE NO: 69033	06/10/13
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JOHN F. KENNEDY SPACE CENTER, NASA
KENNEDY SPACE CENTER, FLORIDA

CLOSE/DEMOLISH FACILITIES AND STRUCTURES, VARIOUS LOCATIONS, PACKAGE 1

BUILDING M7-0961 AS-BUILTS

D24

FILE NO. | SIZE F | DWG. NO. 79K39389 | REV
PROJ. NO. 97963.9 | SHEET 31

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

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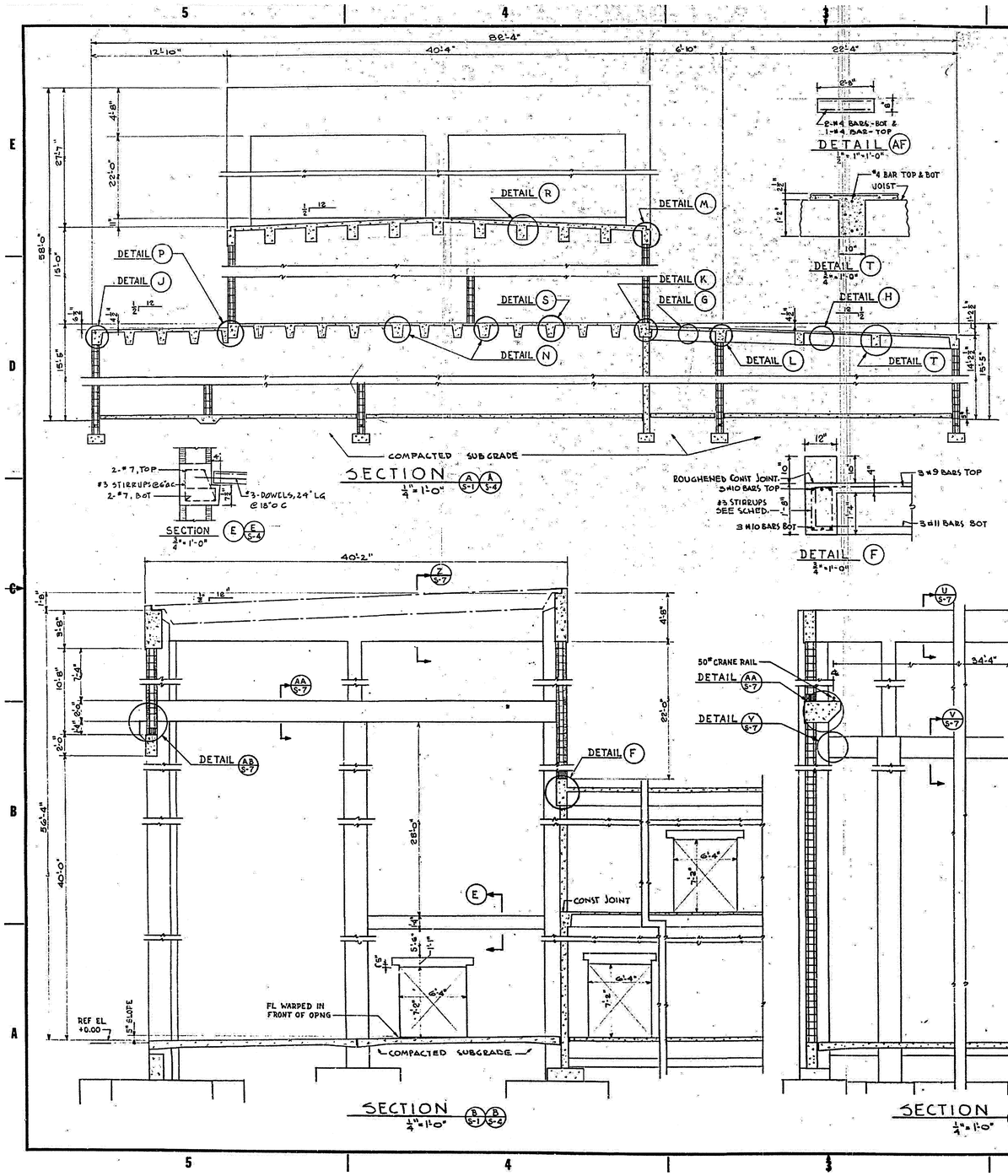

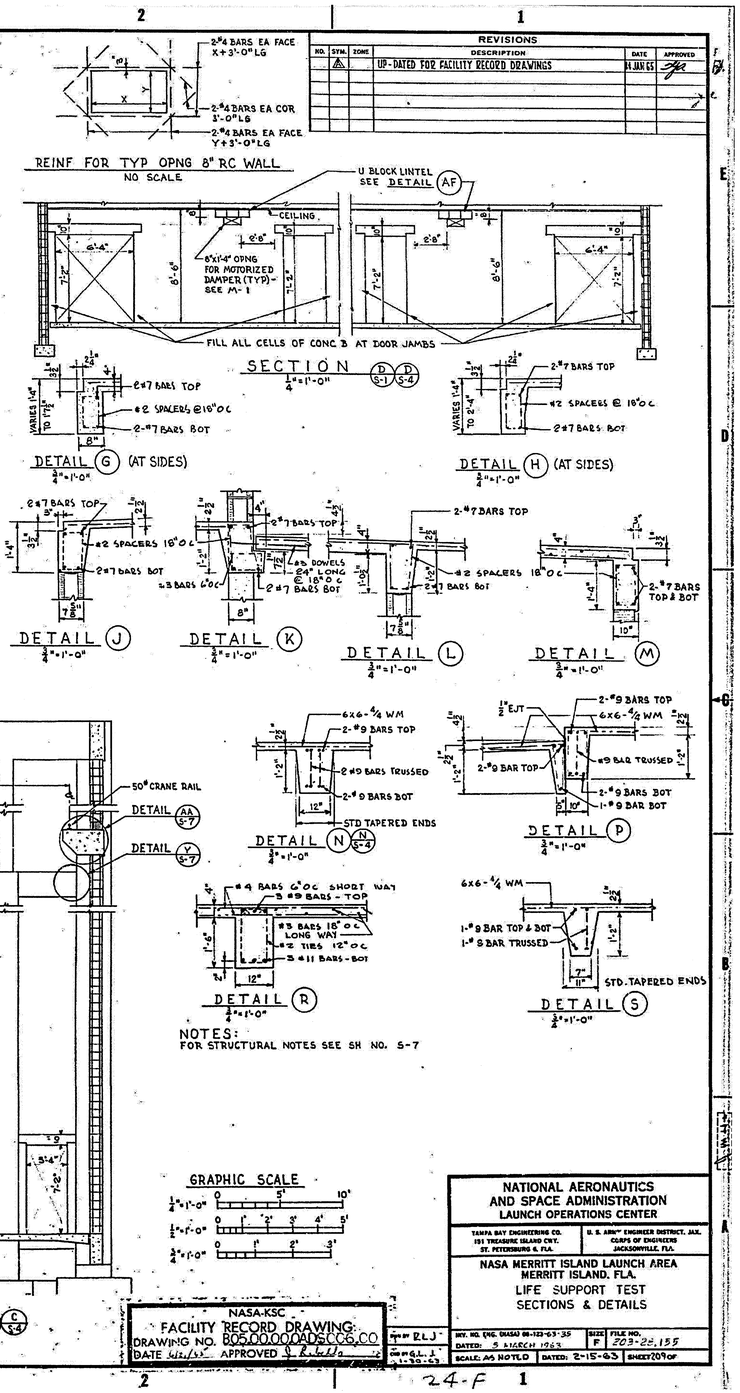

REVISIONS					
NO.	SYM.	ZONE	DESCRIPTION	DATE	APPROVED
	1		UP-DATED FOR FACILITY RECORD DRAWINGS	14 JAN 05	

NASA-KSC
FACILITY RECORD DRAWING
DRAWING NO. B05.000.00ADSCC6.CO
DATE 6/21/13 APPROVED

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LAUNCH OPERATIONS CENTER

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NASA MERRITT ISLAND LAUNCH AREA
MERRITT ISLAND, FLA.
LIFE SUPPORT TEST
SECTIONS & DETAILS

INV. NO. (NG. DASA) 88-123-03-35	SIZE: F	FILE NO. 203-22.155	
DATED: 5 MARCH 1963	SCALE: AS NOTED	DATED: 2-15-03	SHEET 209 OF

24-F

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SYM	ZONE	DESCRIPTION	DATE	APPROVED

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APPROVED D. TOTH	6/10/13
I. OTERO	6/12/13

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

CLOSE/DEMOLISH FACILITIES AND STRUCTURES, VARIOUS LOCATIONS, PACKAGE 1

BUILDING M7-0961 AS-BUILTS

FILE NO.	SIZE	DWG. NO.	REV
	F	79K39389	
PROJ. NO. 97963.9		SHEET 32	

D25

FILE: \\tlhsms01\drafting\14000 Nasa\212-01_Design-Close-Demo-Var-Facs-FY13&14\Contract Drawings\Package 1\Civil\14000212P1-D25.dwg PRINTED: 6/10/2013 2:16 PM, BY USER: Kristian Perez LAST MODIFIED: 4/15/2013 8:21 AM, BY USER: CCoffey

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

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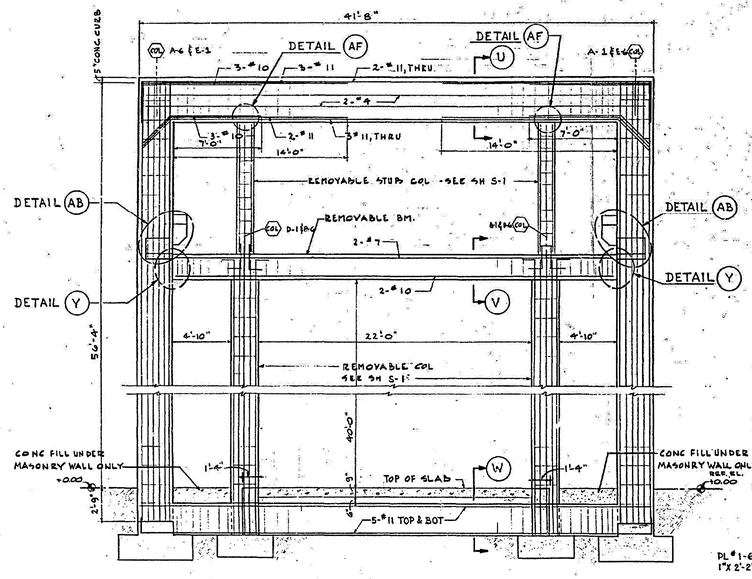
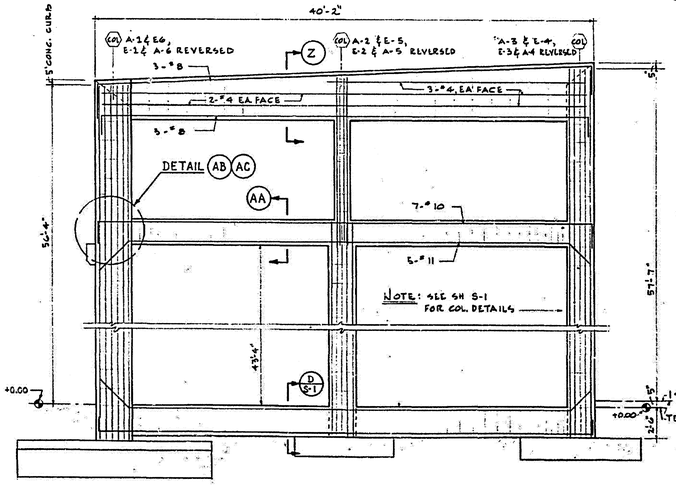
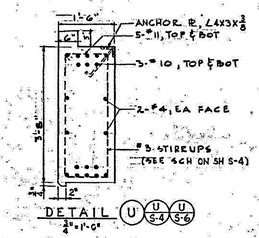


ELEVATION @ TEST CELL DOORS
$\frac{1}{4}$"=1'-0"

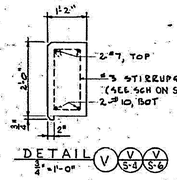


ELEVATION @ SIDES OF TEST CELL
$\frac{1}{4}$"=1'-0"

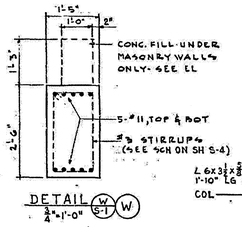
NOTE: SEE SCHEDULE FOR STIRRUP SPACING-SH S-4



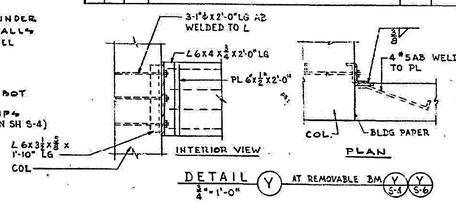
DETAIL U (U S-4 S-6)
$\frac{3}{4}$"=1'-0"



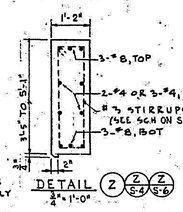
DETAIL V (V S-4 S-6)
$\frac{3}{4}$"=1'-0"



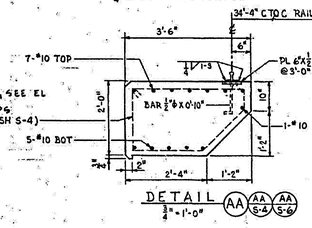
DETAIL W (W S-1)
$\frac{3}{4}$"=1'-0"



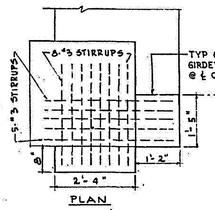
DETAIL Y AT REMOVABLE BM (V S-4 S-6)
$\frac{3}{4}$"=1'-0"



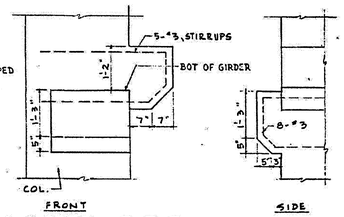
DETAIL Z (Z S-4 S-6)
$\frac{3}{4}$"=1'-0"



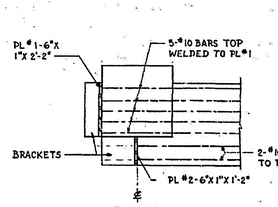
DETAIL AA (AA S-4 S-6)
$\frac{3}{4}$"=1'-0"



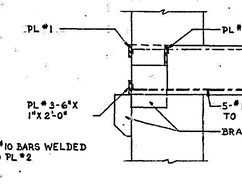
PLAN



DETAIL AB (AB S-4 S-6)
$\frac{3}{4}$"=1'-0"

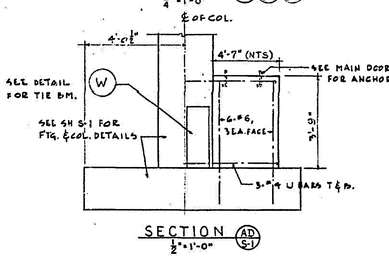


PLAN

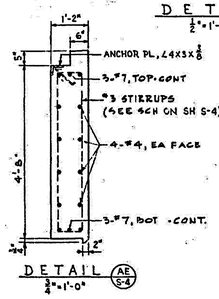


ELEVATION

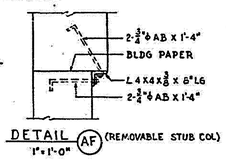
DETAIL AC (AC S-4)
½"=1'-0"



SECTION (AD S-1)
½"=1'-0"



DETAIL AE (AE S-4)
$\frac{3}{4}$"=1'-0"

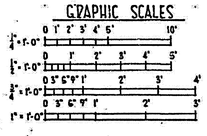


DETAIL AF (REMOVABLE STUB COL)
1"=1'-0"

STRUCTURAL DESIGN NOTES

1. ALL CONCRETE TO DEVELOP 3000 #/in² @ 28 DAYS.
2. REINF. STEEL SHALL BE INTERMEDIATE GRADE, f_s = 20,000 P.S.I.
3. ALL WORK SHALL CONFORM TO A.C.I. BLDG CODE, (318-56)
4. LIVE LOADS: ROOFS- 20#/ft², FLOORS- 125#/ft², TEST CELL FLOOR- 7000# WHEEL LOAD + 20% IMPACT, STAIRS- 100# ft², HORIZ. WIND LOAD- 40# ft²; ROOF UPLIFT- 50# ft²
5. CRANE DL = 8,920#/WHEEL, CRANE LL- 10,000#/WHEEL PLUS 25% IMPACT/WHEEL.
6. 7" INTERIOR SLAB DEPTH + 9" EDGE THICKNESS, TEST CELL FLOOR SLAB DESIGNED FOR 7000 # WHEEL LOAD + 20% IMPACT.
7. MAXIMUM SOIL PRESSURE UNDER FOOTINGS 3000 ft².
8. FOOTINGS UNDER COL'S. A-1, E-1, A-6 & E-6 DESIGNED FOR FUTURE 20'-0" EXTENSION OF TEST CELLS.
9. PROVIDE BAR SPACERS & SUPPORTS IN ACCORDANCE WITH A.C.I. MANUAL.
10. ALL MAIN REINF. BARS SHALL BE 2" CLEAR AT BOTTOM OF BEAMS & ¾" CLEAR AT BOTT. OF JOIST & SLABS.
11. ALL STIRRUPS SHALL BE 1½" CLEAR AT SIDES OF ALL BEAMS.
12. FUTURE FOOTINGS FOR EXTENSION NOT IN CONTRACT.
13. ALL FOOTING REINF. STEEL 3" CLEAR AT BOTTOM.
14. BACKFILL & COMPACTION OF SUBGRADE UNDER FLOOR SLABS SHALL BE IN ACCORDANCE WITH CONTRACT SPECS., SECTION 3 & GUIDE SPECS, C.E. "G-203.
15. ALL STRUCT. STEEL SHALL BE ASTM-A7-Fs = 22,000 P.S.I. EXCEPT STEEL JOIST SHALL BE ASTM-A36-Fs = 24,000 P.S.I.
16. CONCRETE BUILDING FRAME SHALL BE COMPLETELY ERECTED & CURED PRIOR TO ERECTION OF CONCRETE BLOCK PANEL WALLS.
17. CHAMFER ALL VISIBLE CORNERS OF COL'S. & BEAMS & TOOL ALL VISIBLE EDGES OF FLOOR SLABS.

GRAPHIC SCALES



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FACILITY RECORD DRAWING
DRAWING NO. RDS.00.00.00ADS00700
DATE 6/4/66 APPROVED

DES'D BY CRC
DRN BY GLL

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
LAUNCH OPERATIONS CENTER

TAMPA BAY ENGINEERING CO. 151 TREASURE ISLAND CNY. ST. PETERSBURG 6, FLA.

U. S. ARMY ENGINEER DISTRICT, JAX. CORPS OF ENGINEERS JACKSONVILLE, FLA.

NASA MERRITT ISLAND LAUNCH AREA
MERRITT ISLAND, FLA.
LIFE SUPPORT TEST
SECTIONS & DETAILS

INV. NO. EXC. (NASA) 08-123-63-35		SIZE F	FILE NO. 203-28,155
DATED: 9 MARCH 1963			
SCALE: AS NOTED	DATED: 2-15-63	SHEET 210 OF	

THIS SPACE RESERVED

SYM	ZONE	DESCRIPTION	DATE	APPROVED

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APPROVED D. TOTH	6/10/13
I. OTERO	6/10/13

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

CLOSE/DEMOLISH FACILITIES AND STRUCTURES, VARIOUS LOCATIONS, PACKAGE 1

BUILDING M7-0961 AS-BUILTS

FILE NO.	SIZE	DWG. NO.	REV
	F	79K39389	
PROJ. NO. 97963.9		SHEET 33	

D26

24-F

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

FILE: \\Titusmd01\grafting\14000 Nasa\212-01_Design-Close-Demo-Var-Fcts-FY13&14\Contract Drawings\Package 1\Cvil\14000212P1-D26.dwg PRINTED: 6/10/2013 2:16 PM, BY USER: Kristian Perez LAST MODIFIED: 4/15/2013 8:21 AM, BY USER: Coffey

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ROOM FINISH SCHEDULE

AREA	FLOOR	WALLS	CEILING	BASE	REMARKS	AREA
OFFICE & DATA REDUCTION	VINYL ASB TILE	CONC. BLK. OR GYP. BOARD	ACOUSTICAL TILE	VINYL	WOOD TRIM	2@697 SQ FT. EACH
REACTION CONTROL SYSTEMS SHOP						2@259 EACH
MECHANICAL ROOM	CONC.	CONC BLK	NONE	NONE		365
CONFERENCE ROOM	VINYL ASB TILE	CONC BLK. OR GYP. BOARD	ACOUSTICAL TILE	VINYL		326
NASA OFFICE						333
TOILETS	CER TILE	CER. TILE & GYP. BRD.	5/8" GYP. BOARD	4'-0" TILE WAINSCOT		259
GENERAL SHOP	VINYL ASB. TILE	CONC BLK. OR GYP. BOARD	ACOUSTICAL TILE	VINYL		251
CORRIDOR						1441
STORAGE	SHEET VINYL		5/8" GYP. BOARD		WOOD TRIM-CLEAN RM.	2@ 564 EA.
AIR LOCK						2@ 49 EA.
PRE-INSTALLATION ACCEPTANCE						2@ 287 EACH
LAB, EQUIP.						333
GAGE CALIBRATION						239
QUALITY ASSURANCE LAB						239
CLEANING						548
PRODUCTION CONTROL						234
JANITOR	CONC			WOOD		

DOOR SCHEDULE

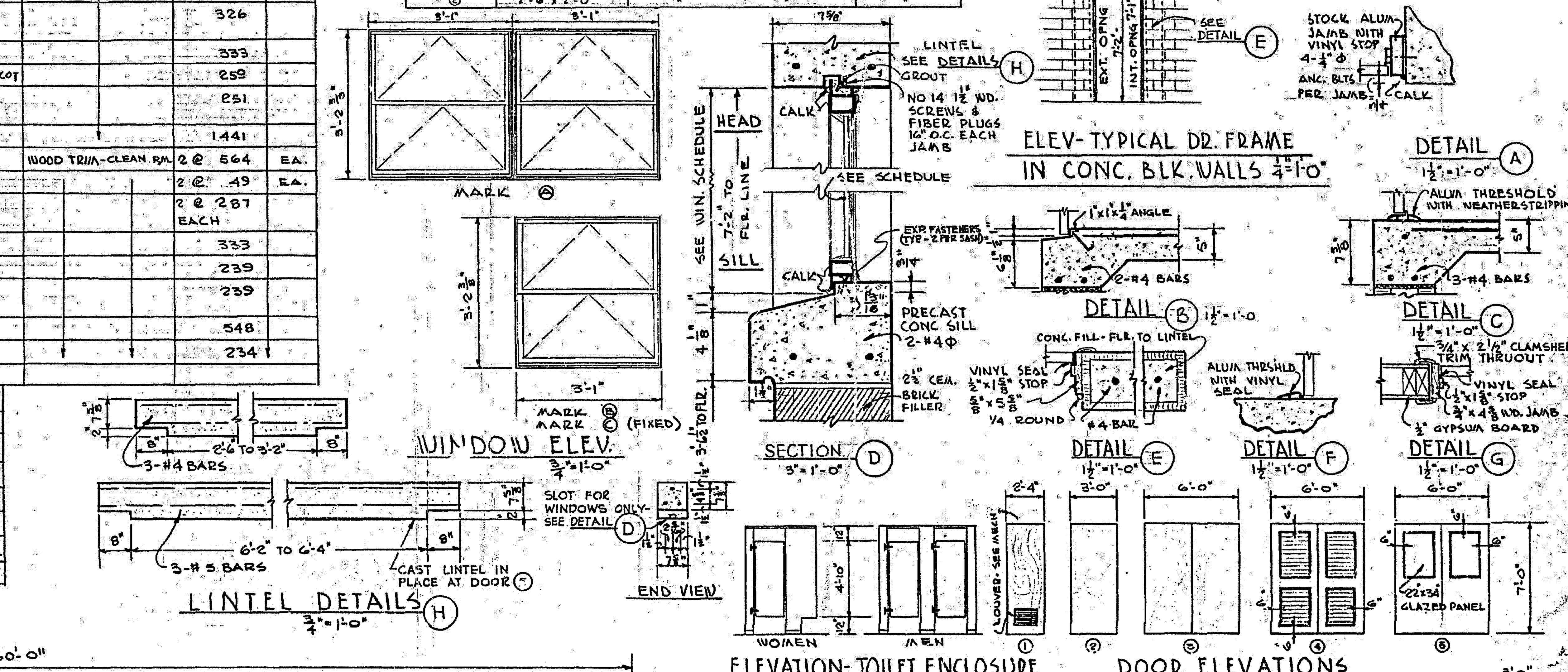
MARK	SIZE	TYPE	THRS'HLD	CLOSER	REMARKS
1	2'-4" x 7'-0" x 1 3/4"	FLUSH WD.	MARBLE	YES	LOUVERS -SEE MECH.
2	3'-0" x 7'-0" x 1 3/4"		ALUM. WITH VINYL SEAL	YES, 1-ACTIVE LEAF	WEATHERSTRIPPING SOUTH SIDE OF BLDG.
3	PR-3'-0" x 7'-0" x 1 3/4"			NO	
4	PR-3'-0" x 7'-0" x 1 3/4"	ALUM HOLLOW CORE	NONE	NO	WEATHERSTRIPPING & LOUVERS AS SHOWN
5	PR-3'-0" x 7'-0" x 1 3/4"	1/2 GL. AS SHOWN		YES- EACH LEAF	1/4" P.P.G. UPPER PANEL
6 & 6A	3'-0" x 7'-0" x 1 3/4"	FLUSH WD.		NO:	LOUVERS-SEE MECH. VINYL SEAL ON STOPS

WINDOW SCHEDULE

MARK	SIZE	REMARKS	GLASS
A	2-23 ALUM AWNING	WITH SCREENS AND OPERATORS	D.S.B.
B	23 ALUM AWNING		
C		FIXED SASH	
D	2'-0" x 2'-0"	IN WEST AIR LOCK-SEE DETAILS THIS SHT.	1/4" D.S.B.
E	2'-6" x 2'-0"	"	"

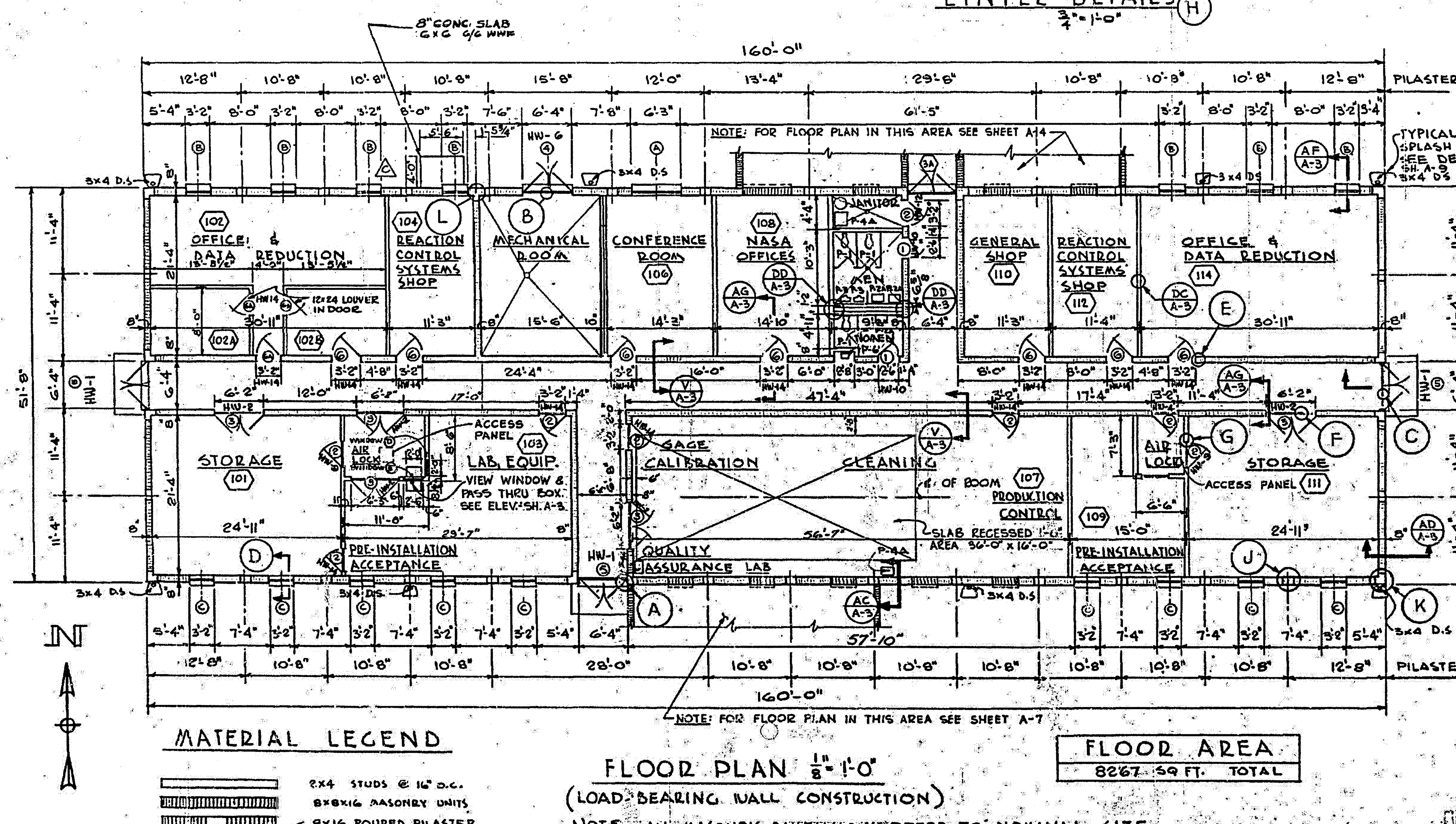
REVISIONS

NO.	SYM.	ZONE	DESCRIPTION	DATE	APPROVED
5	A	B3-4-5	REVISED PARTITIONS, DOOR OPENINGS, WINDOW OPENINGS ADDED RECESSED PORTION OF FLOOR TO CONFORM W/ MOD TO CONT NAS	9/9/63	[illegible]
4	B	E-3 C 8-1.5	ADDED "Z VIEW WINDOWS & PASS-THRU BOX TO AIR LOCK NEAR WEST END OF BUILDING.	11/26/63	[illegible]
4	C		REVISED PARTITIONS IN OFFICE & DATA ROOM TO ACCOMP. MOD. TO CONTR. NAS0 2970	4/6/64	[illegible]
	D		UP-DATED FOR "F.R.D"	4/21/65	[illegible]



(FOR DES. OF ACCESSORIES SEE SPECS.)
1- TOILET PAPER HOLDER EA. CLOSET
1- MIRROR ABOVE EA. LAV.
1- SOAP HOLDER ABOVE EA. LAV
1- PAPER TOWEL HOLDER EA. TOILET

TOILET ACCESSORIES

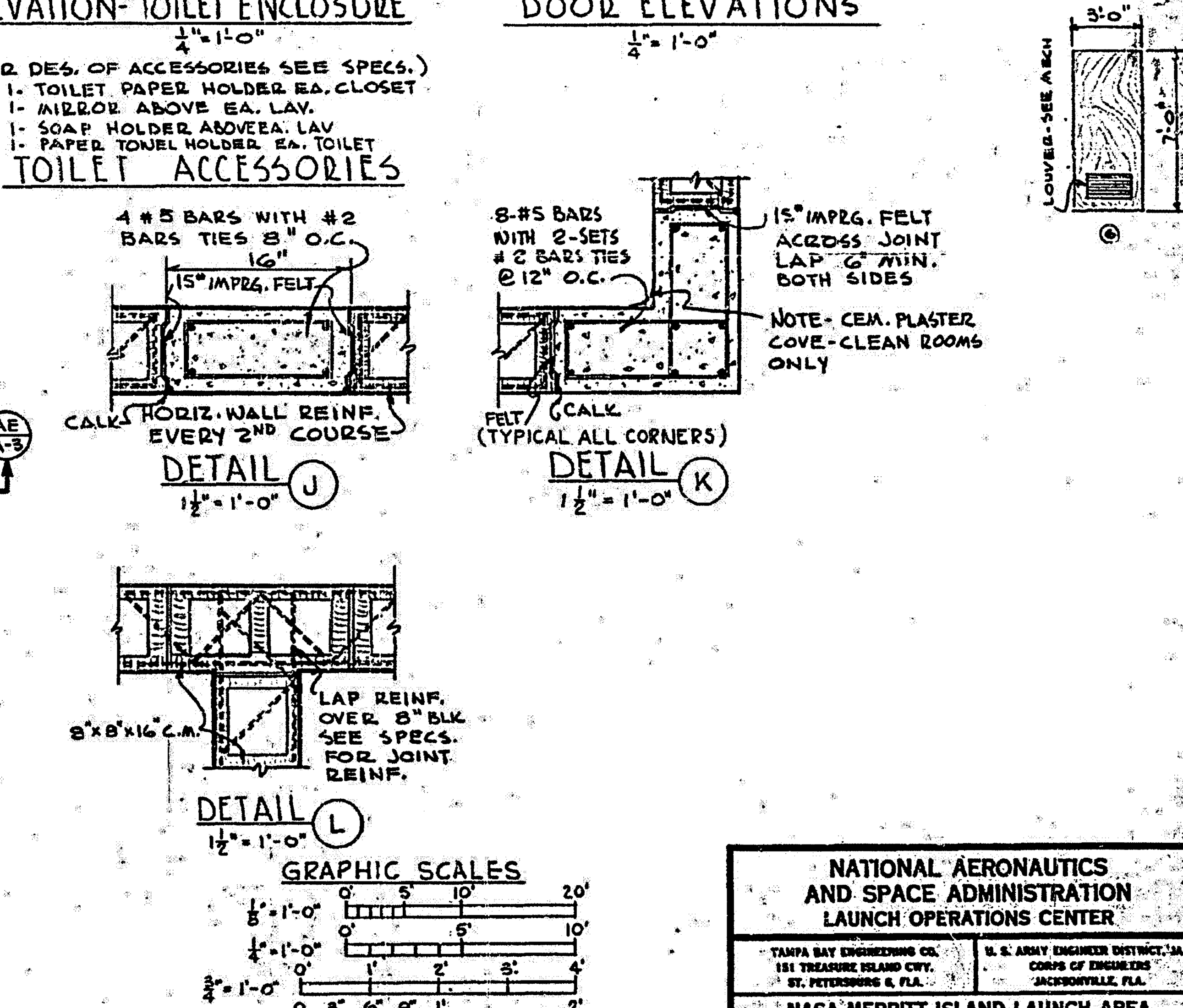


FLOOR PLAN 1/8"=1'-0"

(LOAD BEARING WALL CONSTRUCTION)

NOTE- ALL MASONRY DIMENSIONS REFER TO NOMINAL SIZE

FLOOR AREA	
8267 SQ FT.	TOTAL



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NASA MERRITT ISLAND LAUNCH-AREA
MERRITT ISLAND, FLA.
FLUID TEST SUPPORT
ARCHITECTURAL FLOOR PLAN & DETAILS

INV. NO. ENG. (NASA) 08-123-63-35 | SIZE F | FILE NO. 203-28155
DATED: 5 MARCH 1963 | SCALE: AS NOTED | DATED: 2-15-63 | SHEET 30 1 OF

NASA-KSC
FACILITY RECORD DRAWING
DRAWING NO. 806-00100-0AD-A00100
DATE APPROVED

203-28155 1 24-H

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SYM	ZONE	DESCRIPTION	DATE	APPROVED

REVISIONS

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3910 S WASHINGTON AVE, SUITE 210, TITUSVILLE, FLORIDA 32780 / (321) 269-2950

SIGNATURES	DATE
DRAWN C. COFFEY	06/10/13
CHECKED K. RIVERA	06/10/13
SUBMITTED J. BELL	06/10/13
ST of LICENSURE: FL LICENSE NO: 69033	06/10/13
APPROVED D. TOTH	6/10/13
I. OTERO	JUN 12/13

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
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KENNEDY SPACE CENTER, FLORIDA

CLOSE/DEMOLISH FACILITIES AND STRUCTURES, VARIOUS LOCATIONS, PACKAGE 1

BUILDING M7-1061 AS-BUILTS

FILE NO. | SIZE F | DWG. NO. 79K39389 | REV
PROJ. NO. 97963.9 | SHEET 34

D27

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

FILE: \\titusmdi01\drafting\14000 Nasa\212-01_Design-Close-Demo-Var-Facs-FY13&14\Contract Drawings\Package 1\Civil\14000212P1-D27.dwg PRINTED: 6/10/2013 2:16 PM, BY USER: Kristian Perez LAST MODIFIED: 4/15/2013 8:22 AM, BY USER: CCoffey

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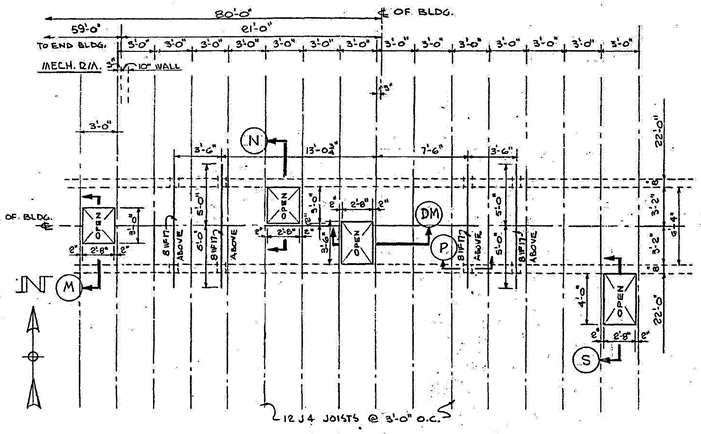
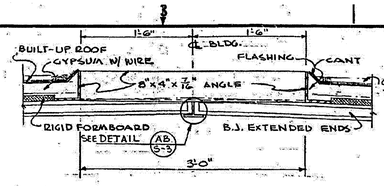
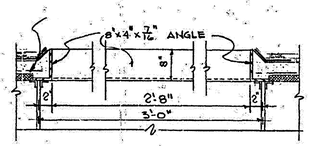


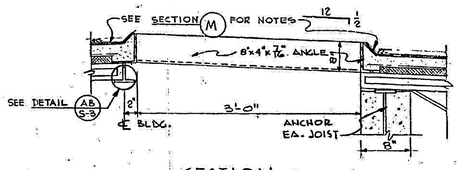
ROOF PLAN OF MECH. EQUIP.
1/4" = 1'-0"



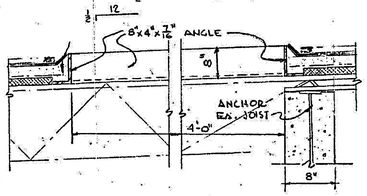
SECTION (M)
1 1/2" = 1'-0"



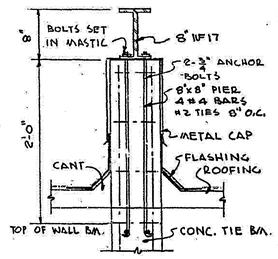
SECTION (DM)
1 1/2" = 1'-0"



SECTION (N)
1 1/2" = 1'-0"

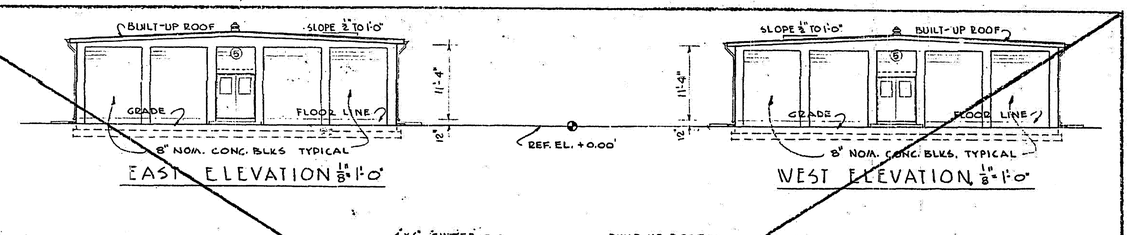


SECTION (S)
1 1/2" = 1'-0"



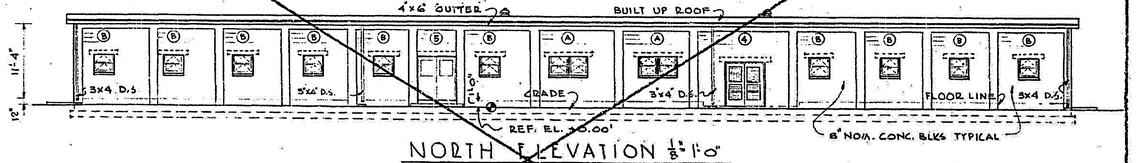
SECTION (P)
1 1/2" = 1'-0"

⚠ NOTE: FOR ELEVATIONS SEE SHEET A-6 AND A-7

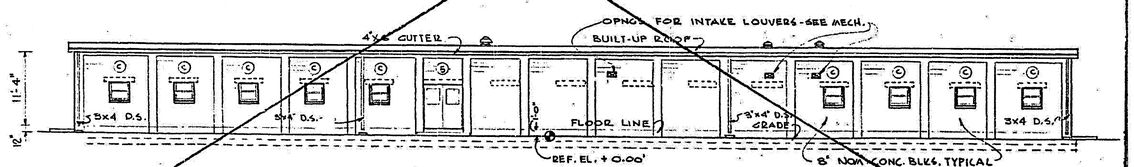


EAST ELEVATION 1/8" = 1'-0"

WEST ELEVATION 1/8" = 1'-0"

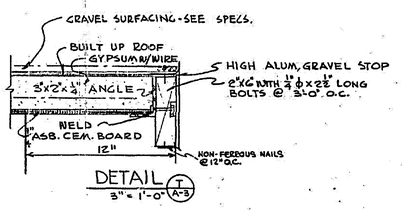


NORTH ELEVATION 1/8" = 1'-0"

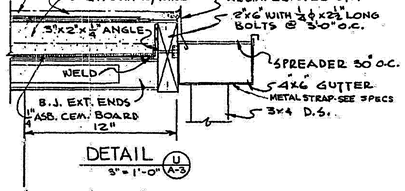


SOUTH ELEVATION 1/8" = 1'-0"

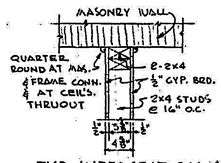
NOTE - SEE SHEET *301 FOR DOOR & WINDOW SCHEDULES.



DETAIL (T A-5)
3" = 1'-0"



DETAIL (U A-5)
3" = 1'-0"



TYP. INTERSECTION AT MASONRY WALL
1 1/2"=1'-0"

GRAPHIC SCALES
1/4" = 1'-0"
1 1/2" = 1'-0"
3/8" = 1'-0"

NASA-KSC
FACILITY RECORD DRAWING
DRAWING NO. B06.00.00.0ADA002.00
DATE APPROVED

REVISIONS					
NO.	SYM.	ZONE	DESCRIPTION	DATE	APPROVED
	A		UP-DATED FOR "F.R.D."	4/21/65	

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NASA MERRITT ISLAND LAUNCH AREA
MERRITT ISLAND, FLA.
FLUID TEST SUPPORT
PARTIAL ROOF PLAN, SECTIONS AND DETAILS

INV. NO. ENG. (NASA) 08-123-63-35 | SIZE F | FILE NO. 203-28155
DATED: 5 MARCH 1963
SCALE: AS NOTED | DATED: 2-15-65 | SHEET 30 OF

D.O. File No. 203-28,155

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SIGNATURES	DATE
DRAWN C. COFFEY	06/10/13
CHECKED K. RIVERA	06/10/13
SUBMITTED J. BELL	06/10/13
ST of LICENSURE: FL LICENSE NO: 69033	06/10/13
APPROVED D. TOTH	6/10/13
I. OTERO	2013 12/13

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CLOSE/DEMOLISH FACILITIES AND STRUCTURES, VARIOUS LOCATIONS, PACKAGE 1

BUILDING M7-1061 AS-BUILTS

FILE NO.	SIZE	DWG. NO.	REV
	F	79K39389	
PROJ. NO. 97963.9		SHEET 35	

D28

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

FILE: \\Jtusmd01\grafting\14000 Nasa\212-01_Design-Close-Demo-Var-Fcns-FY13&14\Contract Drawings\Package 1\Civil\14000212P1-D28.dwg PRINTED: 6/10/2013 2:17 PM, BY USER: Kristian Perez LAST MODIFIED: 4/15/2013 8:22 AM, BY USER: CCoffey

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REVISIONS					
NO.	SYM.	ZONE	DESCRIPTION	DATE	APPROVED
1	A	D-Y	REMOVED DOOR FRAME DET. AND ADDED RECESSED FLOOR SLAB DETAIL TO ACCOMD MOD TO CONT. NO. 19"...	6-6-13	[illegible]
	B		UPDATED FOR "R.F.D."	6-7-13	[illegible]

DETAIL (AA) 1½"=1'-0"

SECTION (V) A-1 ¾"=1'-0"

DETAIL (DC) A-1 1½"=1'-0"

DETAIL (DD) A-1 1½"=1'-0"

DETAIL (W) S-2 1½"=1'-0"

TYPICAL JOIST ANCHOR & CONNECTION 1½"=1'-0"

COMPOSITE ELEVATION OF VIEW WINDOW & PASS-THRU BOX FOR AIR LOCK

SECTION (Y) 1"=1'-0"

DETAIL (Z) S-2 1½"=1'-0"

DETAIL (AA) 1½"=1'-0"

DETAIL (DL) 1½"=1'-0"

SECTION (AC) A-1 ¾"=1'-0"

SECTION (AD) A-1 ¾"=1'-0"

SECTION (AE) A-1 ¾"=1'-0"

SECTION (AF) A-1 ¾"=1'-0"

DETAIL (AH) 1½"=1'-0"

SECTION (AG) A-1 1½"=1'-0" (TYPICAL ALL INTERIOR DOORS)

GRAPHIC SCALES

NASA-KSC
FACILITY RECORD DRAWING
DRAWING NO. BOG.00.00.0ADA003.00
DATE
APPROVED

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LAUNCH OPERATIONS CENTER

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U. S. ARMY ENGINEER DISTRICT, JAX. CORPS OF ENGINEERS JACKSONVILLE, FLA.

NASA MERRITT ISLAND LAUNCH AREA
MERRITT ISLAND, FLA.
FLUID TEST SUPPORT
SECTIONS & DETAILS

INV. NO. ENG. DRAWN 68-123-63-23 | SIZE F | FILE NO. 203-28.155
DATED: 8 MARCH 1963
SCALE: AS NOTED | DATED: 2-15-63 | SHEET 303 OF

D.O. File No. 203-28.155 1 24-H

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3910 S WASHINGTON AVE, SUITE 210, TITUSVILLE, FLORIDA 32780 / (321) 269-2950

SIGNATURES	DATE
DRAWN C. COFFEY	06/10/13
CHECKED K. RIVERA	06/10/13
SUBMITTED J. BELL	06/10/13
ST of LICENSURE: FL LICENSE NO: 69033	06/10/13
APPROVED D. TOTH	6/10/13
J. OTERO	209.12.13

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JOHN F. KENNEDY SPACE CENTER, NASA
KENNEDY SPACE CENTER, FLORIDA

CLOSE/DEMOLISH FACILITIES AND STRUCTURES, VARIOUS LOCATIONS, PACKAGE 1

BUILDING M7-1061 AS-BUILTS

FILE NO.	SIZE	DWG. NO.	REV
	F	79K39389	

PROJ. NO. 97963.9 SHEET 36

D29

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

FILE: \\tlusmd01\drafting\14000 Nasa\212-01_Design-Close-Demo-Ver-Fcs-FY13&14\Contract Drawings\Package 1\Cad\14000212P1-D29.dwg PRINTED: 6/10/2013 2:17 PM, BY USER: Kristin Perez LAST MODIFIED: 4/15/2013 8:22 AM, BY USER: Coffey

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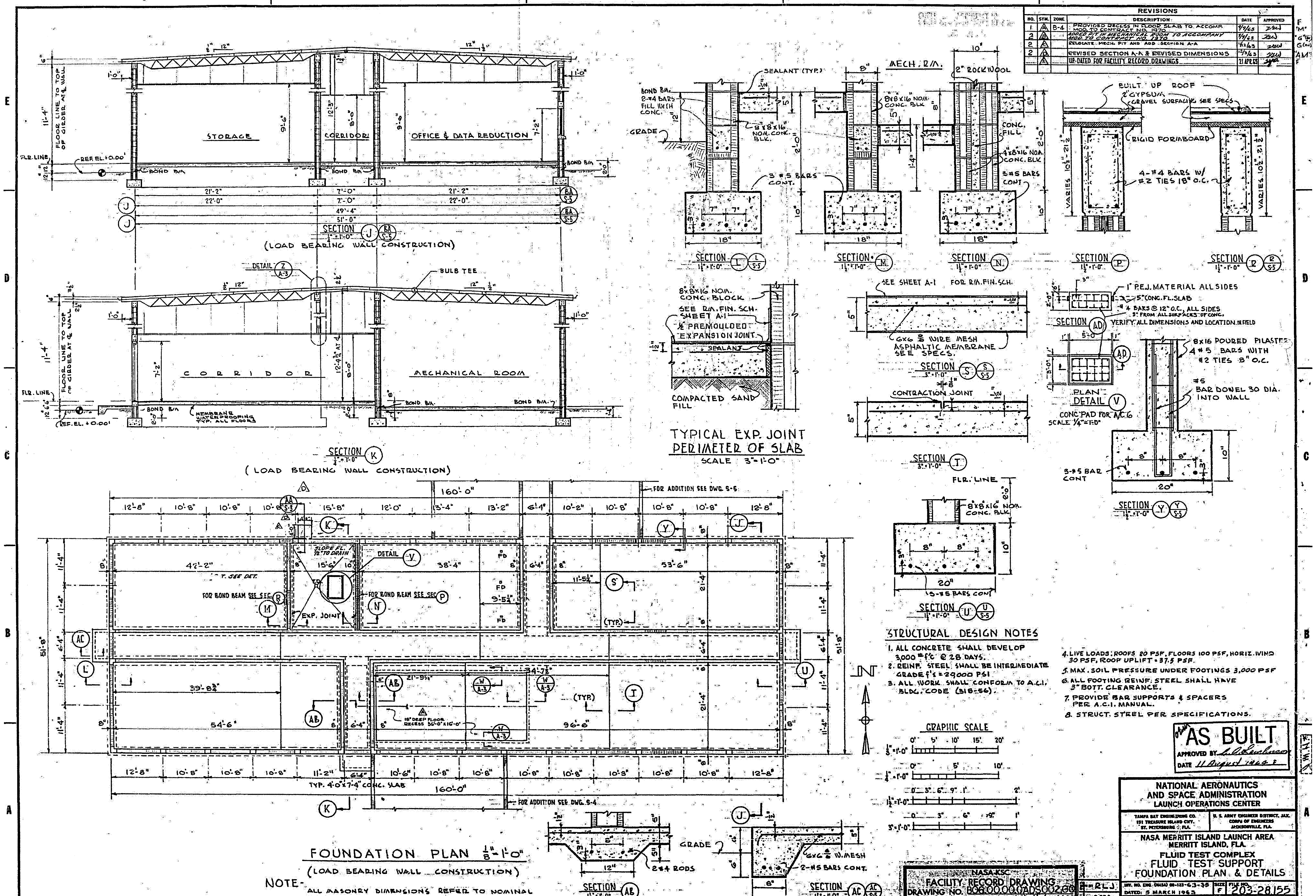

SYM	ZONE	DESCRIPTION	DATE	APPROVED

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I. OTERO	

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JOHN F. KENNEDY SPACE CENTER, NASA
KENNEDY SPACE CENTER, FLORIDA

CLOSE/DEMOLISH FACILITIES AND STRUCTURES, VARIOUS LOCATIONS, PACKAGE 1

BUILDING M7-1061 AS-BUILTS

D30

FILE NO. | SIZE F | DWG. NO. 79K39389 | REV

PROJ. NO. 97963.9 | SHEET 37

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

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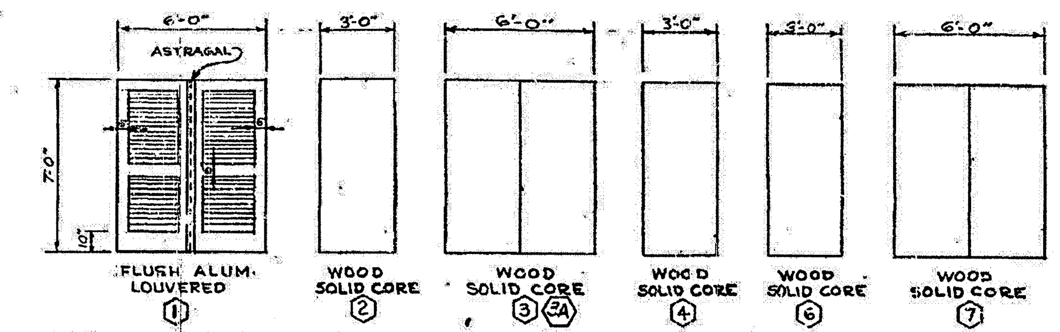
ROOM FINISH SCHEDULE

AREA	FLOOR	WALL	CEILING	BASE	REMARKS
OFFICE & DATA REDUCTION	SHEET VINYL	CONC. BLK & GYP. BD.	5/8" GYP. BOARD	VINYL COVE	INTERIOR FACE OF WALLS TO RECEIVE GYP. BD.
LABORTORY	SHEET VINYL	CONC. BLK & GYP. BD.	5/8" GYP. BOARD	VINYL COVE	INTERIOR FACE OF WALLS TO RECEIVE GYP. BD.
MECHANICAL ROOM	CONC.	CONC. BLK.	UNDERSIDE OF ROOF DECK	NONE	
CORRIDOR	VINYL ASB. TILE	CONC. BLK	ACOUSTICAL TILE	VINYL COVE	CONC. BLK. IN CORRIDOR WITH GYP. BD. FINISH ON OTHER SIDE OF WALL.

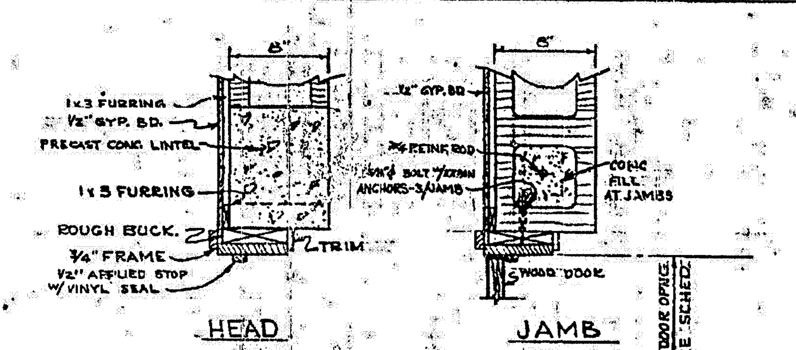
DOOR SCHEDULE

MARK	SIZE	TYPE	THRESHOLD	REMARKS
1	PR 3'0"x7'0"x 1 3/4"	FLUSH ALUM	SEE DETAIL	FULL LOUVERED
2	3'0"x7'0"x1 3/4"	FLUSH WOOD SOLID CORE	BULB TYPE	LOUVERS AS REQ'D SEE MECHANICAL
3 (3A)	PR 3'0"x7'0"x1 3/4"	FLUSH WOOD SOLID CORE	BULB TYPE	LOUVERS AS REQ'D NO LOUVER ON DR. 3A
4	3'0"x7'0"x 1 3/4"	FLUSH WOOD SOLID CORE	BULB TYPE	LOUVERS AS REQ'D SEE MECHANICAL
5	PR 3'0"x7'0"x1 3/4"	FLUSH ALUM 1/2 GL. AS SHOWN	ALUM. WITH VINYL SEAL	REUSE EXIST. DOOR 1/4" P.P.G. UPPER PANEL
6	3'0"x7'0"x1 3/4"	FLUSH WOOD SOLID CORE	BULB TYPE	LOUVERS AS REQ'D SEE MECHANICAL
7	PR 3'0"x7'0"x1 3/4"	FLUSH WOOD SOLID CORE	NONE	LOUVERS AS REQ'D SEE MECHANICAL



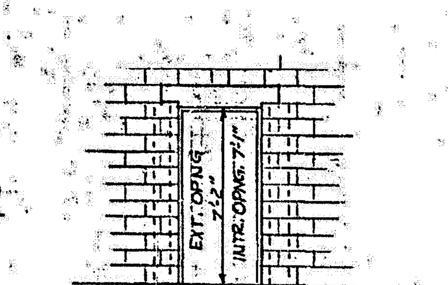
NOTE: DOOR #5 - REUSE EXISTING (SEE FLOOR PLAN)

DOOR SCHEDULE 1/4" = 1'-0"

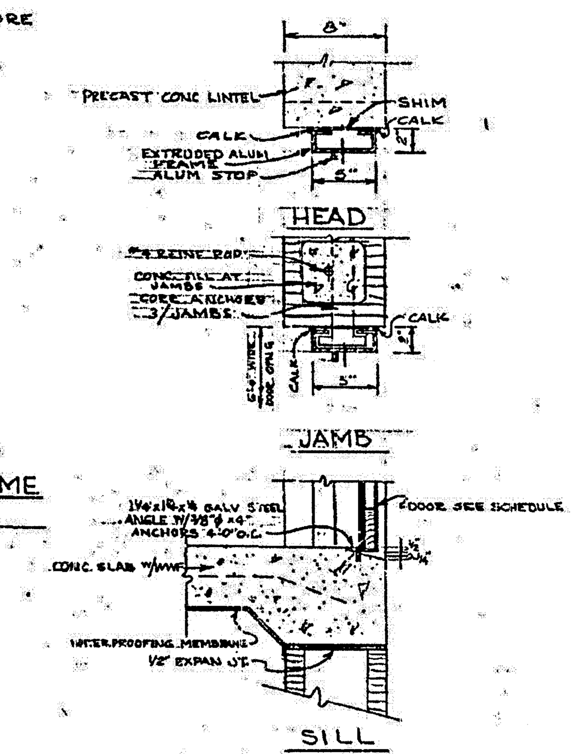


INTERIOR DOOR DETAILS 1 1/2" = 1'-0"

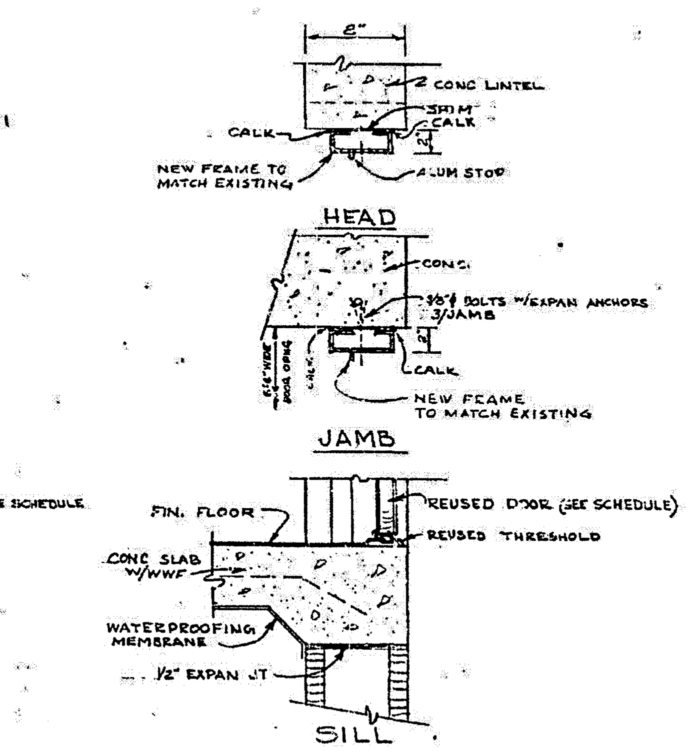
NOTE: EXISTING ALUM. FRAME SHALL BE USED FOR NEW DOOR #3A IN CORRIDOR SEPARTING ADDITION FROM EXISTING CONSTRUCTION.



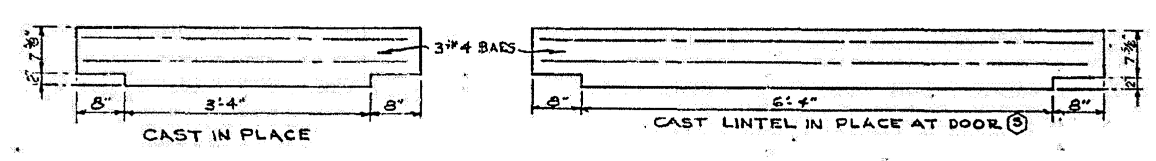
ELEV.-TYPICAL DR. FRAME IN CONC. BLK WALLS 1/4" = 1'-0"



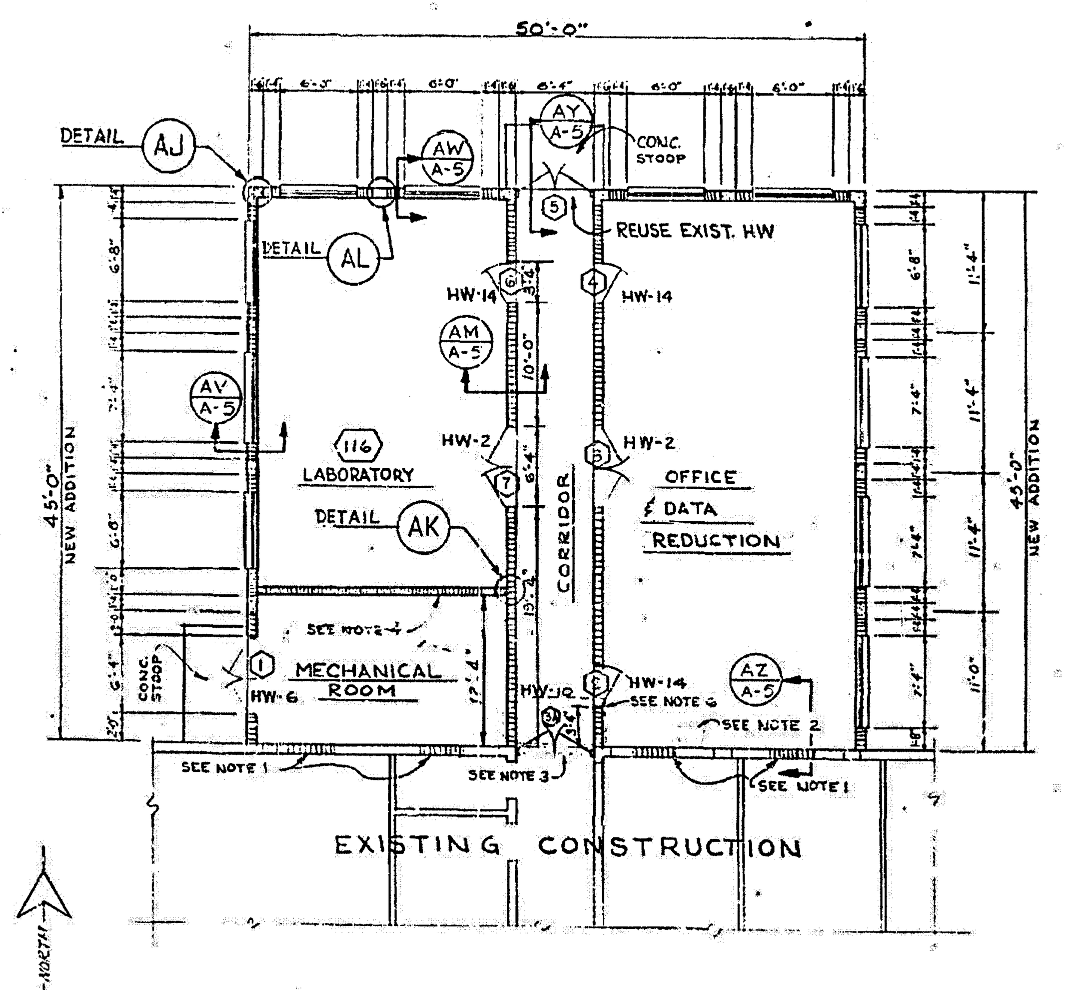
EXTERIOR DOOR #1 DETAILS 1 1/2" = 1'-0"



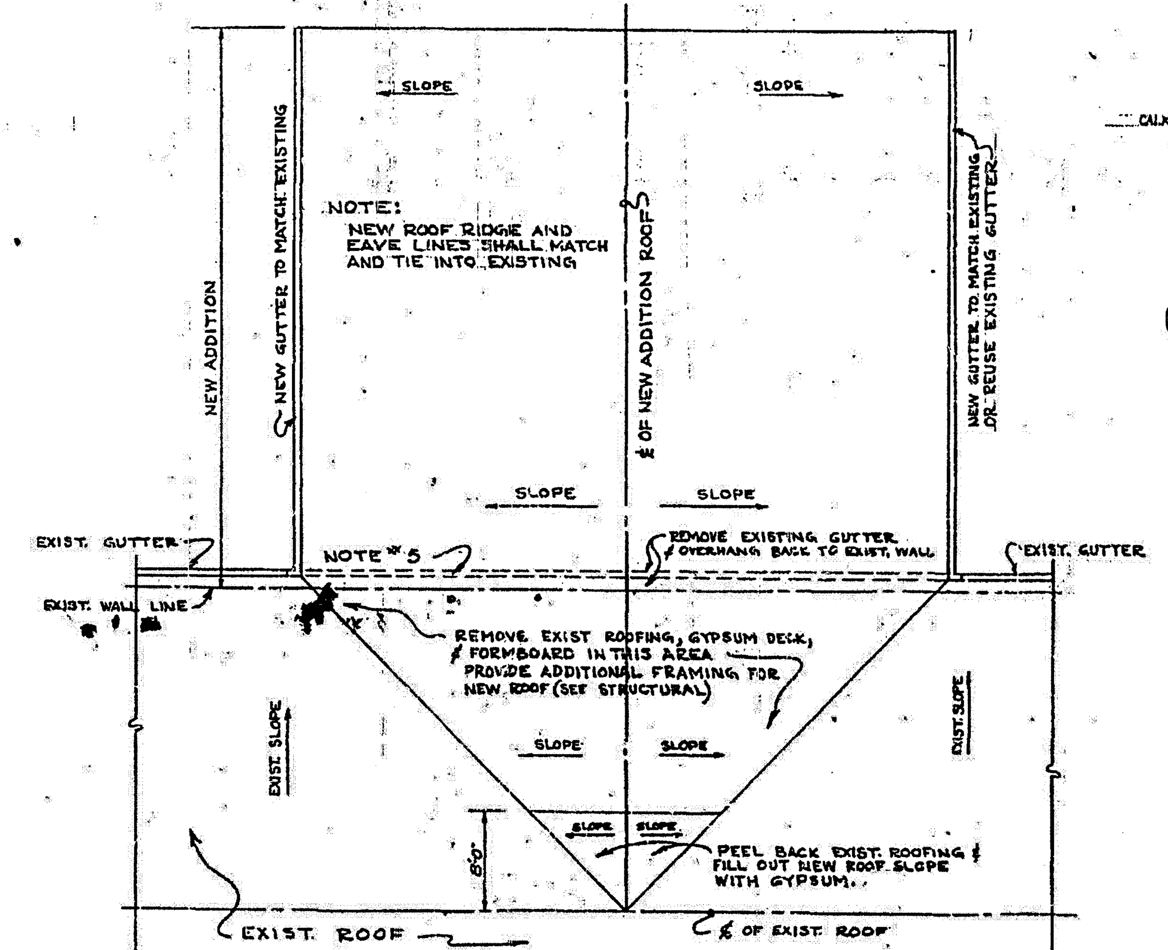
EXTERIOR DOOR #5 DETAILS 1 1/2" = 1'-0"



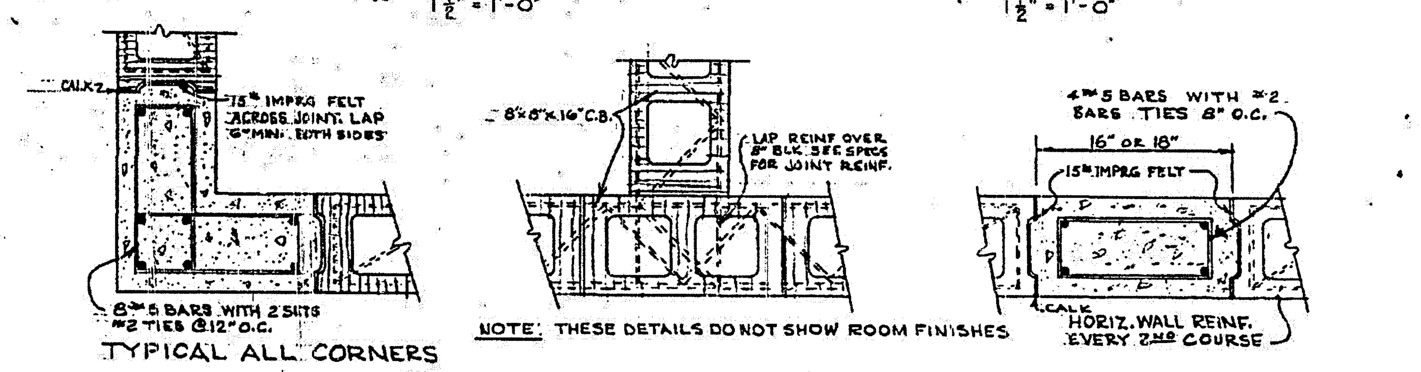
LINTEL DETAILS 3/4" = 1'-0"



FLOOR PLAN 1/8" = 1'-0"



ROOF PLAN 1/8" = 1'-0"



TYPICAL ALL CORNERS

DETAIL (AJ) 1 1/2" = 1'-0"

NOTE: THESE DETAILS DO NOT SHOW ROOM FINISHES

DETAIL (AK) 1 1/2" = 1'-0"

DETAIL (AL) 1 1/2" = 1'-0"

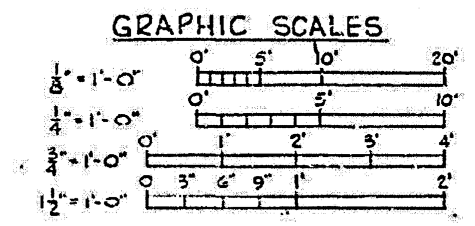
GENERAL NOTES

1. REMOVE EXISTING WINDOWS AND PATCH OPENINGS TO MATCH EXISTING CONSTRUCTION. SEE FINISH SCHEDULE FOR NEW ROOM FINISH.
2. REMOVE EXISTING DOWNSPOUT AND CONC. SPLASH BLOCK.
3. REMOVE AND REUSE EXISTING DOOR, AND HARDWARE. EXISTING FRAME TO REMAIN TO RECEIVE NEW DOORS.
4. WALLS AROUND MECHANICAL ROOM SHALL BE CARRIED TO UNDERSIDE OF ROOF DECK.
5. EXISTING GUTTER & DOWNSPOUTS REMOVED SHALL BE REUSED IF NOT DAMAGED. (SEE ELEVATION FOR NEW LOCATION)
6. REMOVE EXISTING CONC. STOOP.
7. NEW ROOFING & ROOF DECK ON ADDITION SHALL MATCH EXISTING.

MATERIAL LEGEND

- 8x8x16 MASONRY UNITS
- 8x16 POURED PILASTER
- 8x18 POURED PILASTER

FLOOR AREA
2250 SQ.FT. TOTAL



GRAPHIC SCALES

NASA-KSC FACILITY RECORD DRAWING
DRAWING NO. 806.00.00.0ADA004.00
DATE ____ APPROVED [signature]

Drn by CDA
Chd by F.S.

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LAUNCH OPERATIONS CENTER
U. S. ARMY ENGINEER DISTRICT, CANAVERAL
CORPS OF ENGINEERS
MERRITT ISLAND, FLORIDA
NASA MERRITT ISLAND LAUNCH AREA
MERRITT ISLAND, FLA.
FLUID TEST SUPPORT
PARTIAL FLOOR PLAN & DETAILS

SUFFIX 2 | SIZE F | FILE NO. 203-154
SCALE: AS NOTED | DATED FEB '64 | SHEET 2 OF 7

24-H

NO.	SYM	ZONE	REVISIONS DESCRIPTION	DATE	APPROVED
	1		UP-DATED FOR "F.R.D."	4/21/65	[signature]

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SYM	ZONE	DESCRIPTION	DATE	APPROVED
		REVISIONS		

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3910 S WASHINGTON AVE, SUITE 210, TITUSVILLE, FLORIDA 32780 / (321) 269-2950

SIGNATURES	DATE
DRAWN C. COFFEY	06/10/13
CHECKED K. RIVERA	06/10/13
SUBMITTED J. BELL	06/10/13
ST of LICENSURE: FL LICENSE NO: 69033	06/10/13
APPROVED D. TOTH	6/10/13
I. OTERO	6/10/13

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CLOSE/DEMOLISH FACILITIES AND STRUCTURES, VARIOUS LOCATIONS, PACKAGE 1

BUILDING M7-1061 AS-BUILTS

FILE NO. | SIZE F | DWG. NO. 79K39389 | REV
PROJ. NO. 97963.9 | SHEET 38

D31

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

FILE: \\TITUSMDIO\drafting\14000 Nasa\212-01_Design-Close-Demo-Var-Facs-FY13&14\Contract Drawings\Package 1\Civil\14000212P1-D31.dwg PRINTED: 6/10/2013 2:17 PM, BY USER: Kristian Perez LAST MODIFIED: 4/22/2013 8:35 AM, BY USER: CCoffey

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REVISIONS				
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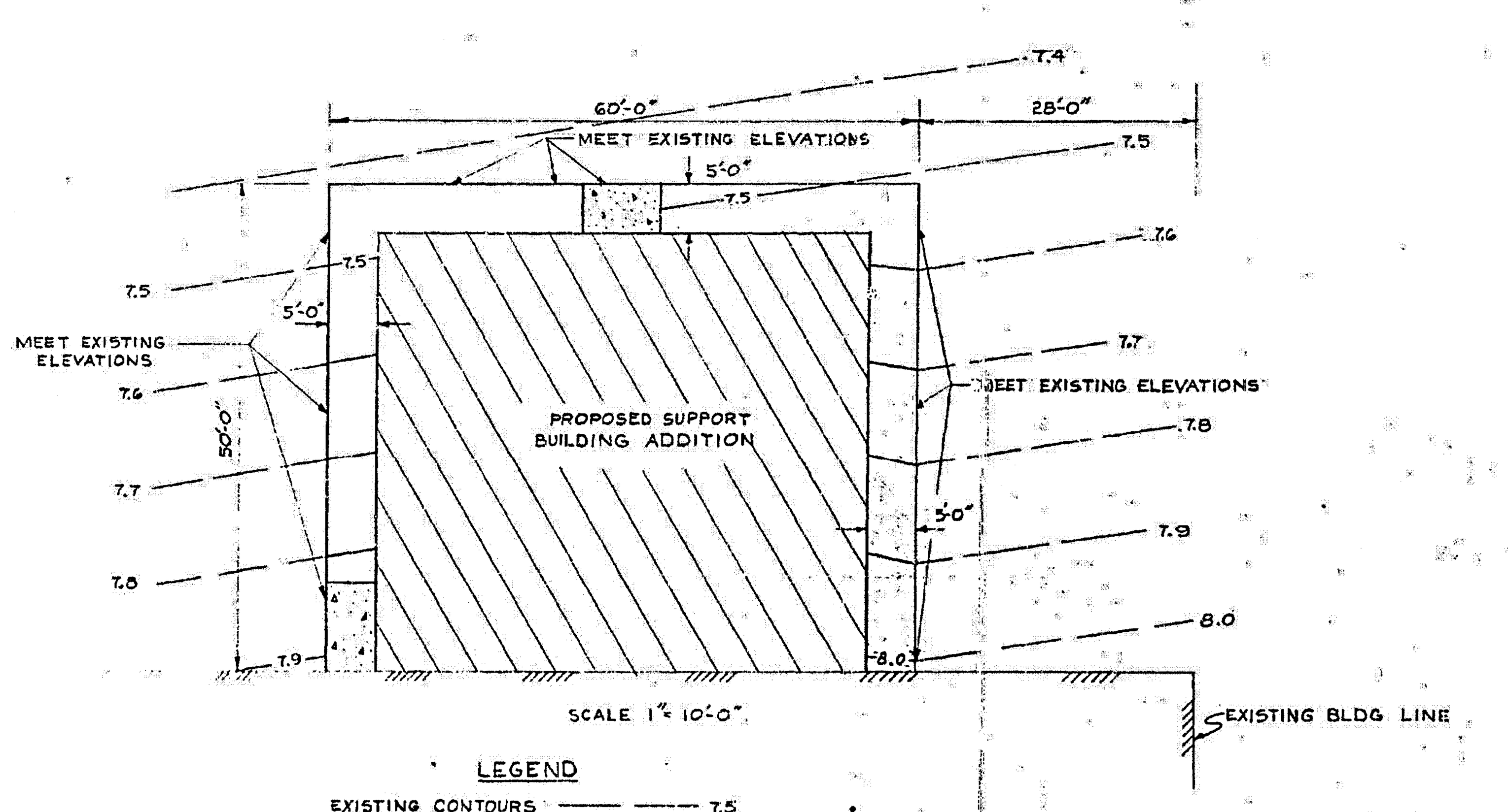
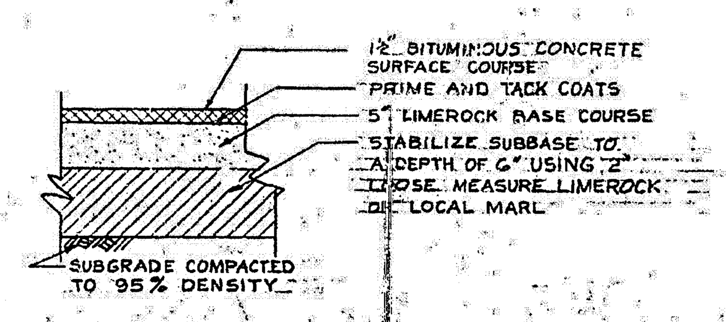
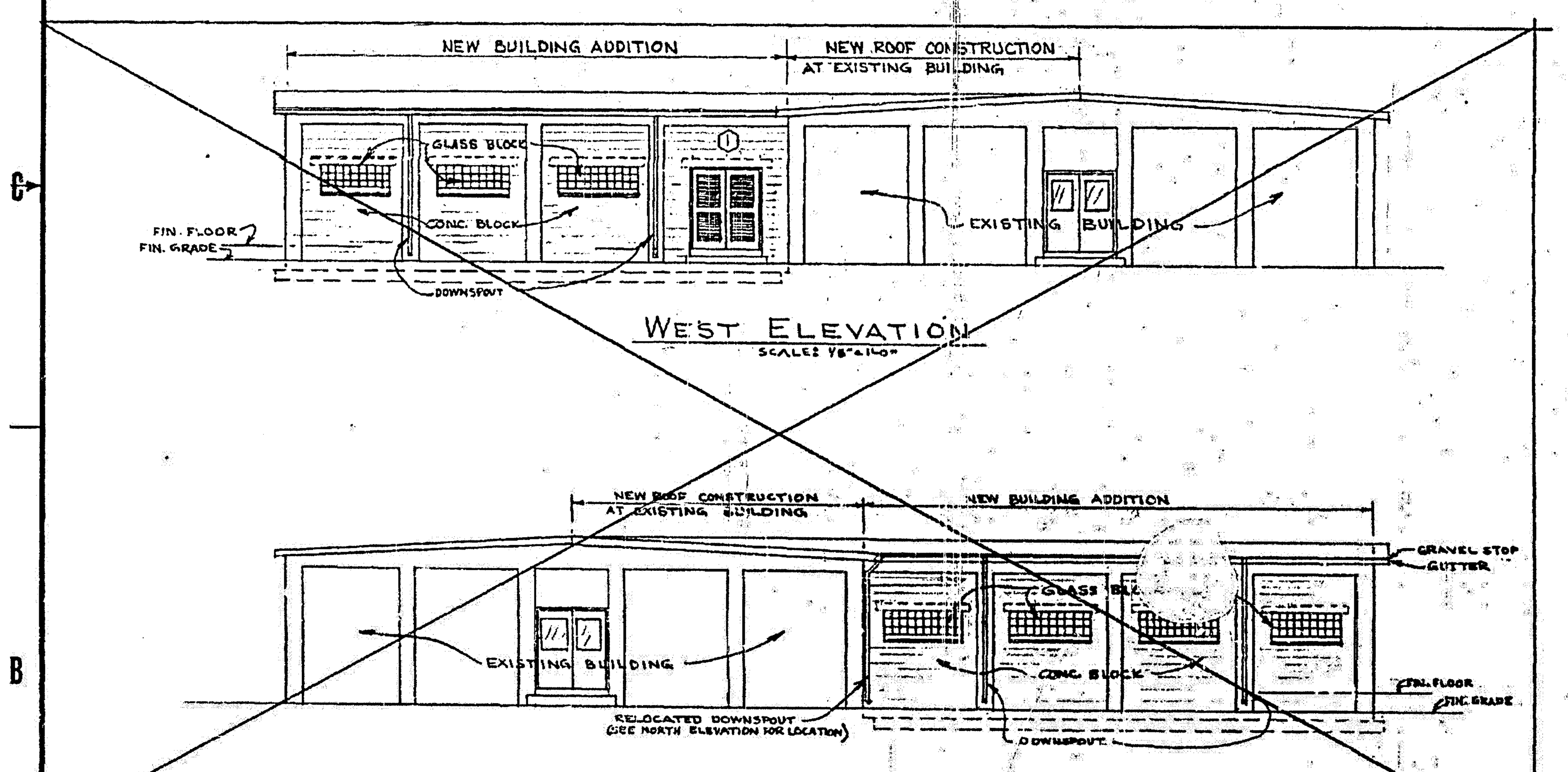
A		UP-DATED FOR "R.D."	4/21/65	



PAVEMENT AND GRADING DETAILS



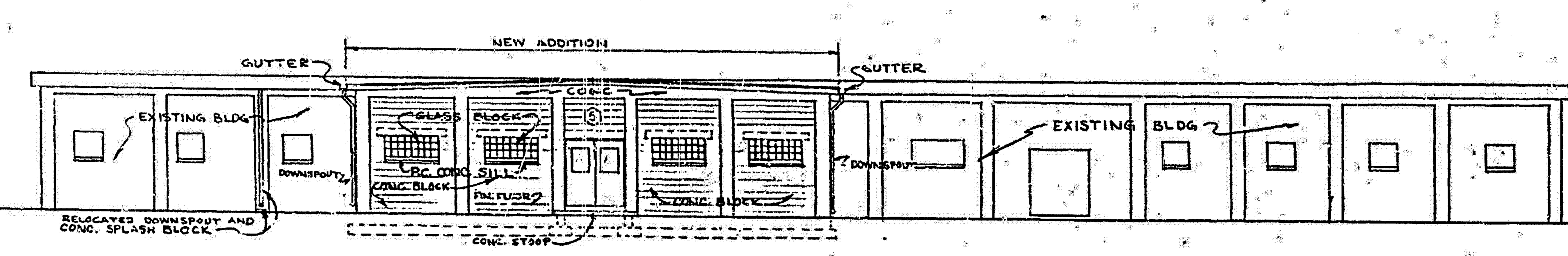
TYPICAL PAVEMENT SECTION
NO SCALE



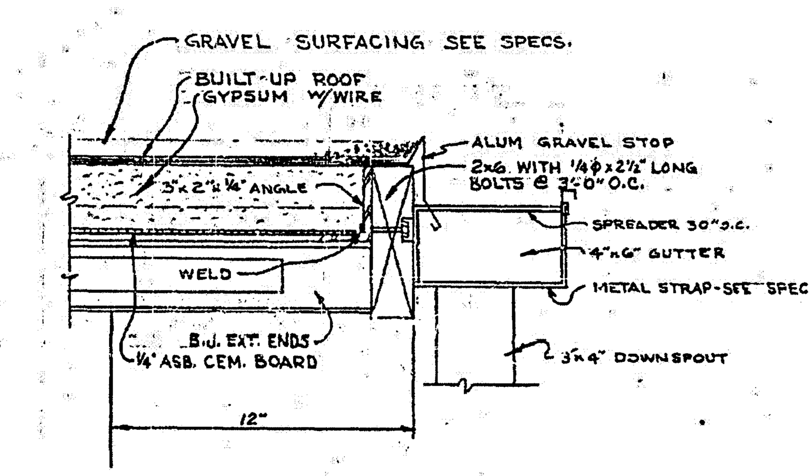
WEST ELEVATION
SCALE: 1/8" = 1'-0"

EAST ELEVATION
SCALE: 1/8" = 1'-0"

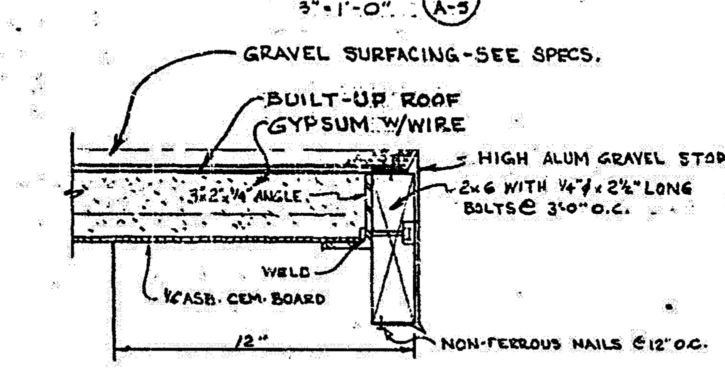
△A NOTE:
EAST AND WEST ELEVATIONS SHOWN ON THIS SHEET NOT APPLICABLE TO FIELD CONDITIONS AS OF 4/21/65. SEE SHEET A-7.



NORTH ELEVATION
1/8" = 1'-0"



DETAIL 8A/A-5
3" = 1'-0"



DETAIL 8B/A-5
3" = 1'-0"

GRAPHIC SCALES

1/8" = 1'-0" — 0', 5', 10', 20'
1" = 10'-0" — 0', 5', 10', 20', 30'
3" = 1'-0" — 0, 3", 6", 9", 1'

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FLUID TEST SUPPORT
NORTH ELEVATION & DETAILS

NASA-KSC
FACILITY RECORD DRAWING
DRAWING NO. B06.00.00.0ADA006.00
DATE ______ APPROVED

Drn by CDA | Ck'd by F3 3FB | T. ACC. NOS. TO CONTRACT ENG (NASA) 24 DATED: 24 FEB., 1964 | SUFFIX R | SIZE F. | FILE NO. 203-154
SCALE: AS NOTED | DATED: FEB '64 | SHEET 3 OF 7

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SIGNATURES	DATE
DRAWN C. COFFEY	06/10/13
CHECKED K. RIVERA	06/10/13
SUBMITTED J. BELL	06/10/13
ST of LICENSURE: FL LICENSE NO: 69033	06/10/13
APPROVED D. TOTH	6/10/13
I. OTERO	JUN 12/13

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CLOSE/DEMOLISH FACILITIES AND STRUCTURES, VARIOUS LOCATIONS, PACKAGE 1

BUILDING M7-1061 AS-BUILTS

D32

FILE NO. | SIZE F | DWG. NO. 79K39389 | REV
PROJ. NO. 97963.9 | SHEET 39

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

FILE: \\ttusmdl01\drafting\14000 Nasa\212-01_Design-Close-Demo-Var-Facs-FY13&14\Contract Drawings\Package 1\Civil\14000212P1-D32.dwg PRINTED: 6/10/2013 2:17 PM, BY USER: Kristian Perez LAST MODIFIED: 4/15/2013 8:22 AM, BY USER: CCoffey

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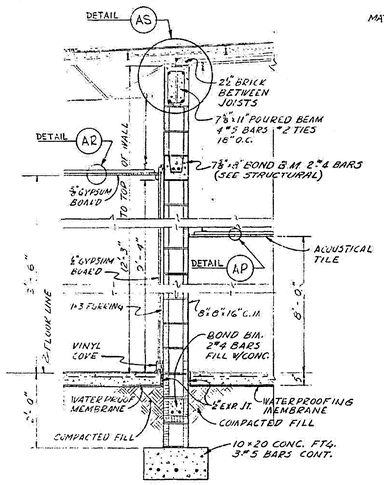

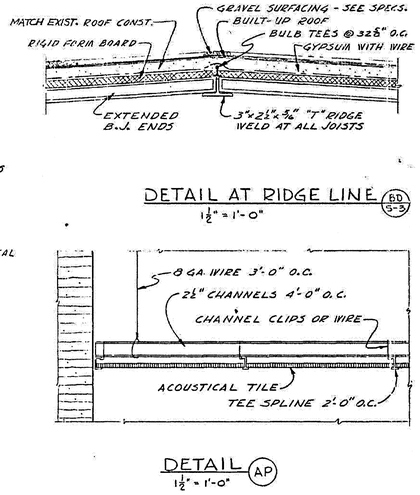

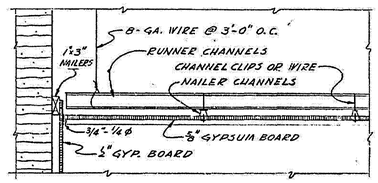

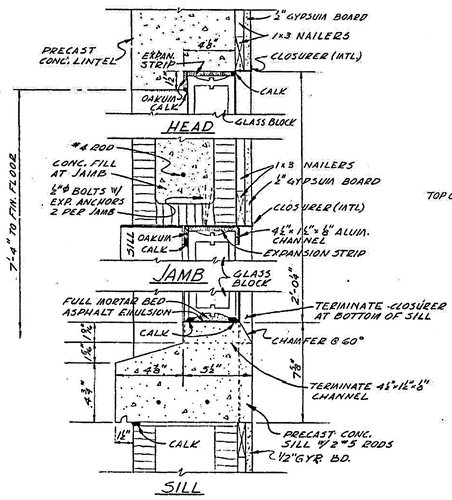

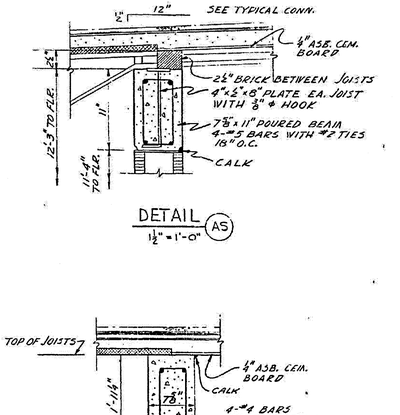

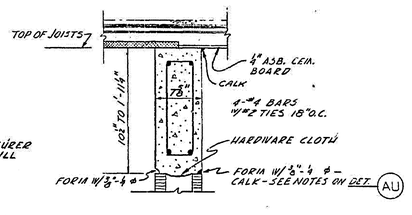

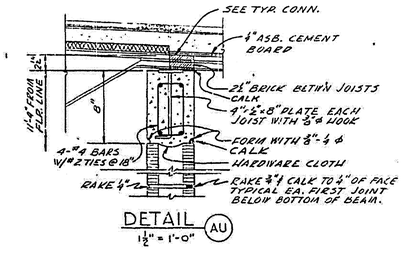

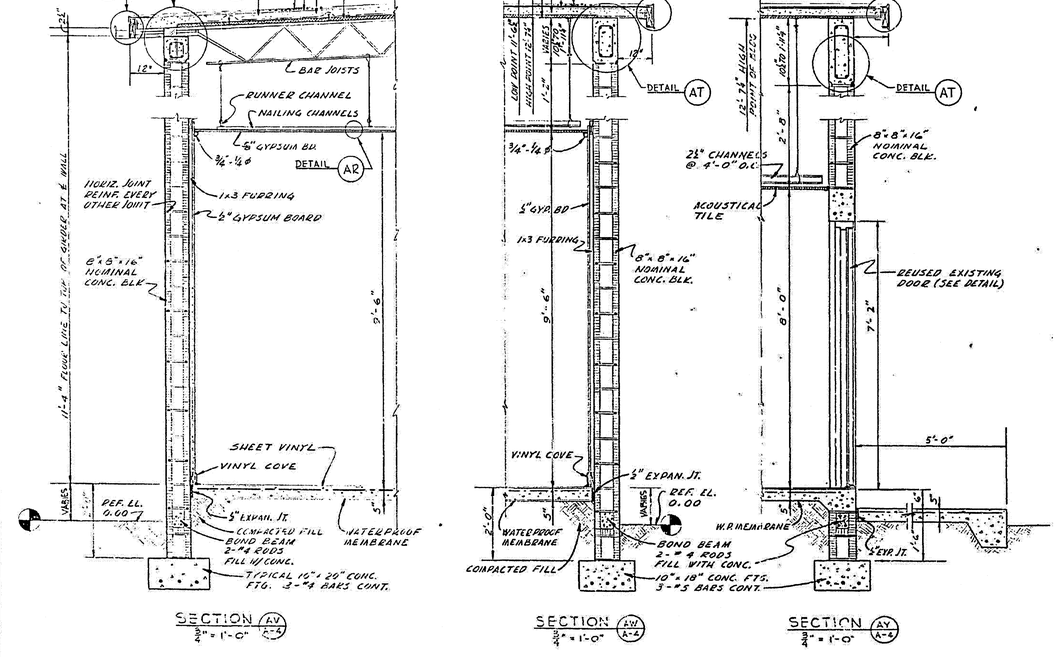

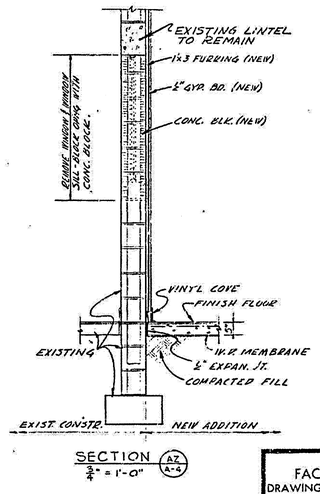

GRAPHIC SCALES

¾" = 1'-0" 0 1' 2' 3' 4'
1½" = 1'-0" 0 3" 6" 9" 1' 2'
3" = 1'-0" 0 3" 6" 9" 1'

NASA-KSC
FACILITY RECORD DRAWING
DRAWING NO. 806.00.00.ADAC.05.CO
DATE _____ APPROVED

Dsn by KK
Ckd by JS

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U. S. ARMY ENGINEER DISTRICT, CANAVERAL CORPS OF ENGINEERS MERRITT ISLAND, FLORIDA
NASA MERRITT ISLAND LAUNCH AREA MERRITT ISLAND, FLA.
FLUID TEST SUPPORT
SECTIONS & DETAILS

TO ACC. W.O. TO CONTRACT DATED: 24 FEB. '64	SCALE	FILE NO.
	12	F 203-154
SCALE: AS NOTED	DATED: FEB. '64	SHEET 4 OF 7

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3910 S WASHINGTON AVE, SUITE 210, TITUSVILLE, FLORIDA 32780 / (321) 269-2950

SIGNATURES	DATE
DRAWN C. COFFEY	06/10/13
CHECKED K. RIVERA	06/10/13
SUBMITTED J. BELL	06/10/13
ST of LICENSURE: FL LICENSE NO: 69033	06/10/13
APPROVED D. TOTH	6/14/13
I. OTERO	

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CLOSE/DEMOLISH FACILITIES AND STRUCTURES, VARIOUS LOCATIONS, PACKAGE 1

BUILDING M7-1061 AS-BUILTS

FILE NO.	SIZE	DWG. NO.	REV
	F	79K39389	
PROJ. NO. 97963.9		SHEET 40	

D33

FILE: L:\titusmb01\cdrafting\14000 Noun\212-01_Design-Close-Demo-Var-Fcns-FY13&14\Control Drawings\Package 1\Cat\14000212P1-D33.dwg PRINTED: 6/10/2013 2:17 PM, BY USER: Kristian Perez LAST MODIFIED: 4/15/2013 8:22 AM, BY USER: CCoffey

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REVISIONS					
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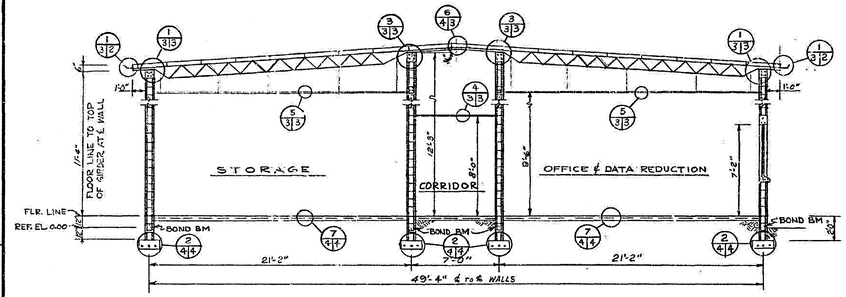
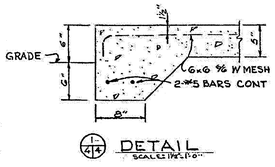
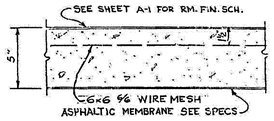
	A		AS BUILT		
	B		DWG NO CHANGED TO 203154.5A	4/29/63	
	C		REVISED FOR F.R.D. INDEX	4/29/63	



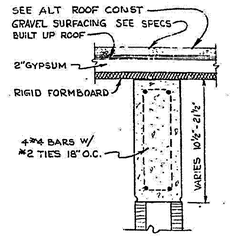
A 4/4 SECTION
SCALE: 1/4"=1'-0"



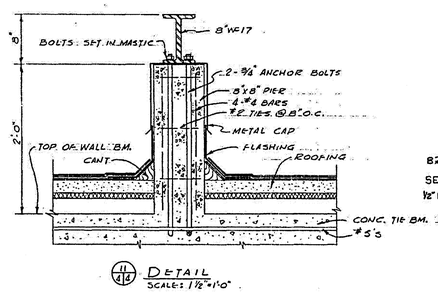
1/4/4 DETAIL
SCALE: 1 1/2"=1'-0"



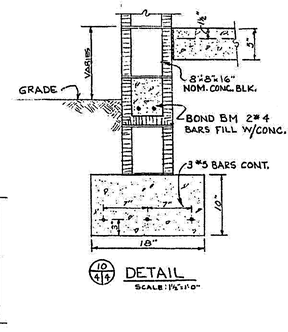
7/4/4 DETAIL
SCALE: 3"=1'-0"



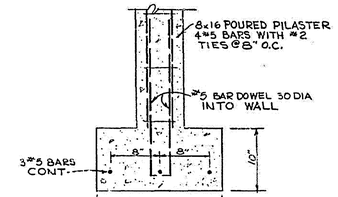
4/4/4 DETAIL
SCALE: 1 1/2"=1'-0"



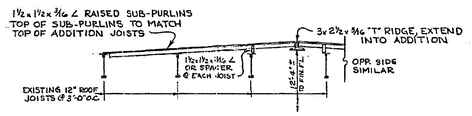
11/4/4 DETAIL
SCALE: 1 1/2"=1'-0"



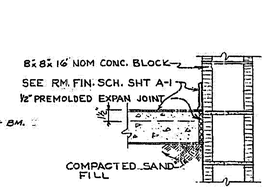
10/4/4 DETAIL
SCALE: 1 1/2"=1'-0"



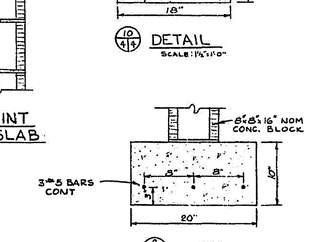
5/4/4 DETAIL
SCALE: 1 1/2"=1'-0"



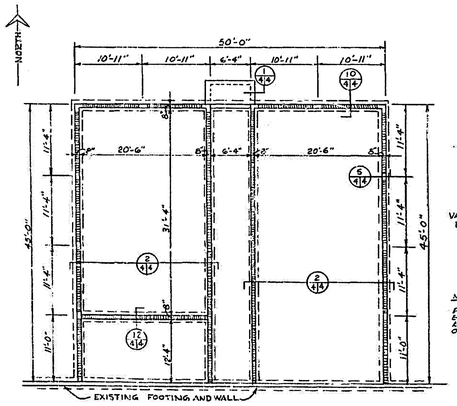
SECTION A-A
SCALE: 1"=1'-0"
TYPICAL RAISED SUB-PURLIN



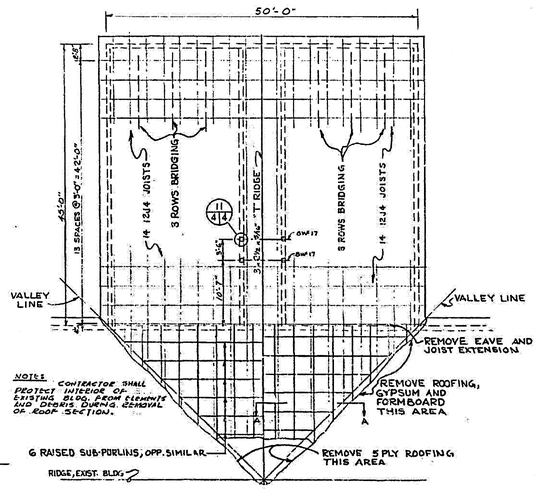
TYPICAL EXP. JOINT
PERIMETER OF SLAB
SCALE: 1 1/2"=1'-0"



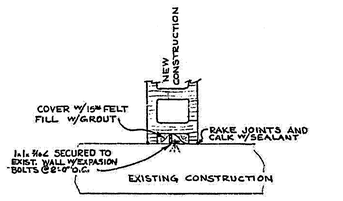
9/4/4 DETAIL
SCALE: 1 1/2"=1'-0"



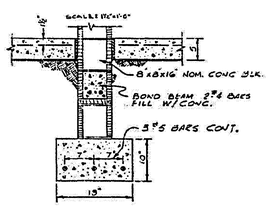
FOUNDATION PLAN
SCALE: 1/8"=1'-0"
(LOAD BEARING WALL CONSTRUCTION)



ROOF FRAMING PLAN
SCALE: 1/8"=1'-0"



NEW CONSTRUCTION AT EXISTING WALL



12/4/4 DETAIL
SCALE: 1"=1'-0"

STRUCTURAL DESIGN NOTES

1. ALL CONCRETE SHALL DEVELOP 3,000 # f'c @ 28 DAYS.
2. REINF. STEEL SHALL BE INTERMEDIATE GRADE f's = 20,000 PSI
3. ALL WORK SHALL CONFORM TO A.C.I. BLDG. CODE (318-56).
4. LIVE LOADS: ROOFS 20 PSF, FLOORS 150 PSF, HORIZ. WIND 30 PSF, ROOF UPLIFT = 37.5 PSF.
5. MAX. SOIL PRESSURE UNDER FOOTINGS 3,000 PSF.
6. ALL FOOTING REINF. STEEL SHALL HAVE 3" BOTT. CLEARANCE.
7. PROVIDE BAR SUPPORTS & SPACERS PER A.C.I. MANUAL.
8. STRUCT. STEEL PER SPECIFICATIONS.

RECORD DRAWING NOTE
'Shall be,' 'Provide,' 'Install,' 'Remove,' etc. indicates work was accomplished under the contract.

AS BUILT
APPROVED BY [signature]
DATE 27 FEB 1967

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
LAUNCH OPERATIONS CENTER
U. S. ARMY ENGINEER DISTRICT, CANAVERAL
CORPS OF ENGINEERS
MERRITT ISLAND, FLORIDA
NASA, MERRITT ISLAND LAUNCH AREA
MERRITT ISLAND, FLORIDA
FLUID TEST COMPLEX
SUPPORT BUILDING ADDITION
STRUCTURAL FOUNDATION & ROOF PLANS

S-1

Dwn by CQO	TO ACC. MOD. TO CONTRACT ENG (NASA) 24 DATED: 24 FEB. 1964	INITIAL 2	SIZE F	FILE NO. 203-154	
Chkd by P.A.	SCALE AS SHOWN	DATED: FEB. '64	SHEET 5A OF 7		

B06.00.00.0ADS005.01

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		REVISIONS		

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3910 S WASHINGTON AVE, SUITE 210, TITUSVILLE, FLORIDA 32780 / (321) 269-2950

SIGNATURES	DATE
DRAWN C. COFFEY	06/10/13
CHECKED K. RIVERA	06/10/13
SUBMITTED J. OTERO	06/10/13
ST of LICENSURE: FL LICENSE NO: 69033	06/10/13
APPROVED D. TOTH	6/10/13
J. OTERO	6/10/13

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

CLOSE/DEMOLISH FACILITIES AND STRUCTURES, VARIOUS LOCATIONS, PACKAGE 1

BUILDING M7-1061 AS-BUILTS

FILE NO.	SIZE	DWG. NO.	REV
	F	79K39389	
PROJ. NO. 97963.9		SHEET 41	

D34

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

FILE: \\Ituamd01\drafting\14000 Notes\212-01_Design-Close-Demo-Var-Facs-FY13&14\Contract Drawings\Package 1\Civil\14000212P1-D34.dwg PRINTED: 6/10/2013 2:17 PM, BY USER: Kristian Perez LAST MODIFIED: 4/15/2013 8:22 AM, BY USER: Coffey

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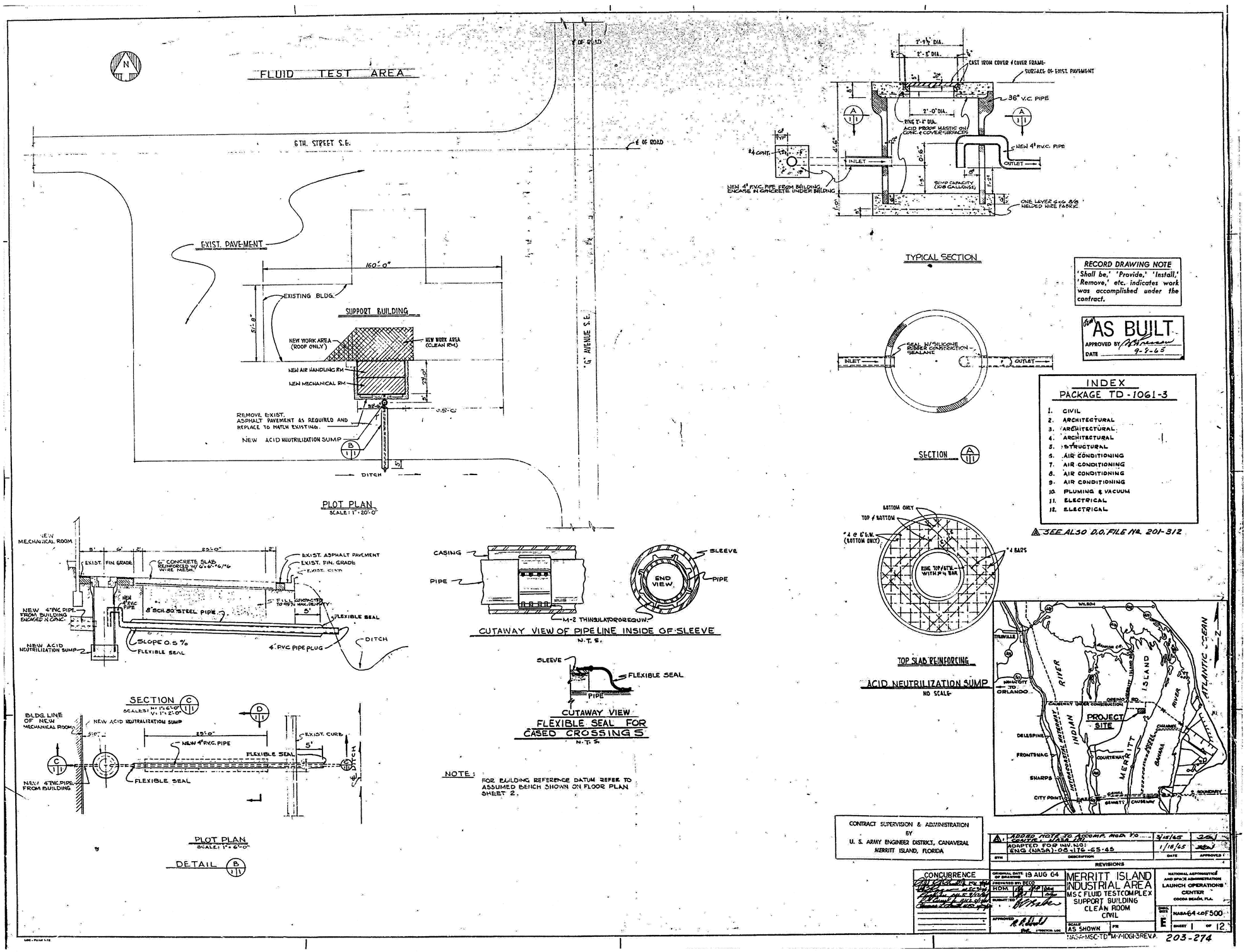

RECORD DRAWING NOTE
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AS BUILT
APPROVED BY
DATE 9-9-65

INDEX
PACKAGE TD-1061-3

1. CIVIL
2. ARCHITECTURAL
3. ARCHITECTURAL
4. ARCHITECTURAL
5. STRUCTURAL
6. AIR CONDITIONING
7. AIR CONDITIONING
8. AIR CONDITIONING
9. AIR CONDITIONING
10. PLUMING & VACUUM
11. ELECTRICAL
12. ELECTRICAL

⚠ SEE AL30 D.O. FILE NR. 201-312

CONTRACT SUPERVISION & ADMINISTRATION BY U. S. ARMY ENGINEER DISTRICT, CANAVERAL MERRITT ISLAND, FLORIDA

SYM	DESCRIPTION	DATE	APPROVED
⚠	ADDED NOTE TO ACCOMP. MOD P.O. CENTER CAST CO.	3/12/65	
	ADAPTED FOR INV. NO: (ENG (NASA)-06-176-65-45	1/18/65	

REVISIONS

CONCURRENCE

ORIGINAL DATE OF DRAWING	19 AUG 64
PREPARED BY	BECO
DESIGNED BY	HDM
CHECKED BY	
SUBMITTED BY	
APPROVED	

MERRITT ISLAND INDUSTRIAL AREA
MSC FLUID TESTCOMPLEX
SUPPORT BUILDING
CLEAN ROOM
CIVIL

SCALE: AS SHOWN FR

NASA-MSC-TD-M-7-1061-3 REV A

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
LAUNCH OPERATIONS CENTER
COCOA BEACH, FLA.

SHEET SIZE: E
SHEET 1 OF 12

NASA 64-10F500

203-274

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SYM	ZONE	DESCRIPTION	DATE	APPROVED

REVISIONS

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730 NE WALDO ROAD, GAINESVILLE, FLORIDA 32641 / (352) 377-5821
3910 S WASHINGTON AVE, SUITE 210, TITUSVILLE, FLORIDA 32780 / (321) 269-2950

SIGNATURES	DATE
DRAWN C. COFFEY	06/10/13
CHECKED K. RIVERA	06/10/13
SUBMITTED J. BELL	06/10/13
ST of LICENSURE: FL LICENSE NO: 69033	06/10/13
APPROVED S. TOTH	6/10/13
I. OTERO	6/10/13

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

CLOSE/DEMOLISH FACILITIES AND STRUCTURES, VARIOUS LOCATIONS, PACKAGE 1

BUILDING M7-1061 AS-BUILTS

FILE NO.	SIZE	DWG. NO.	REV
	F	79K39389	
PROJ. NO. 97963.9		SHEET 42	

D35

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

FILE: \\Ussmd01\shotfrog\14000 Nasa\212-01_Design-Close-Demo-Var-Facs-FY13&14\Contract Drawings\Package 1\Civil\14000212P1-D35.dwg PRINTED: 6/10/2013 2:17 PM, BY USER: Kristian Perez LAST MODIFIED: 4/15/2013 8:22 AM, BY USER: Coffey

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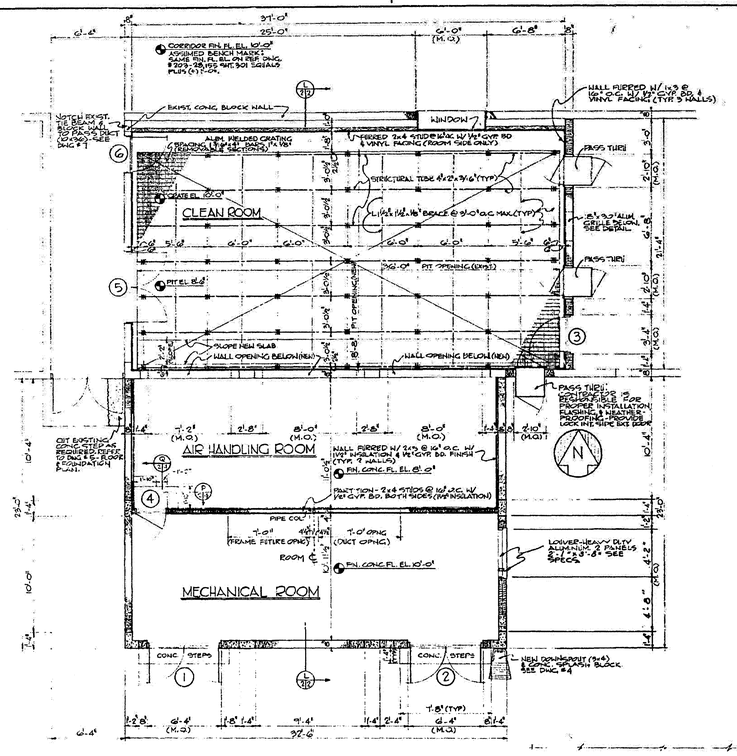
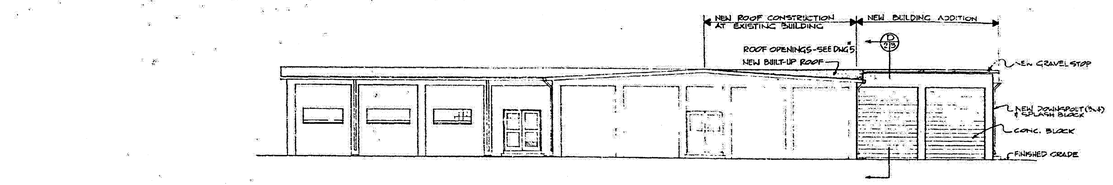
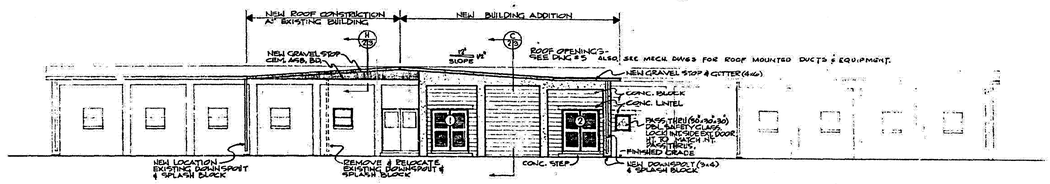
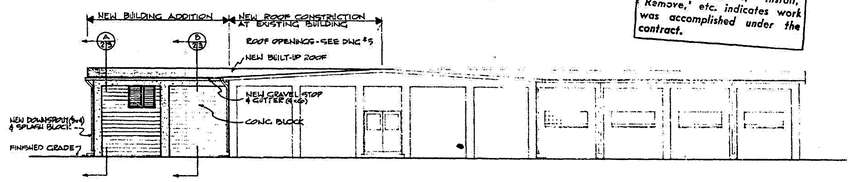




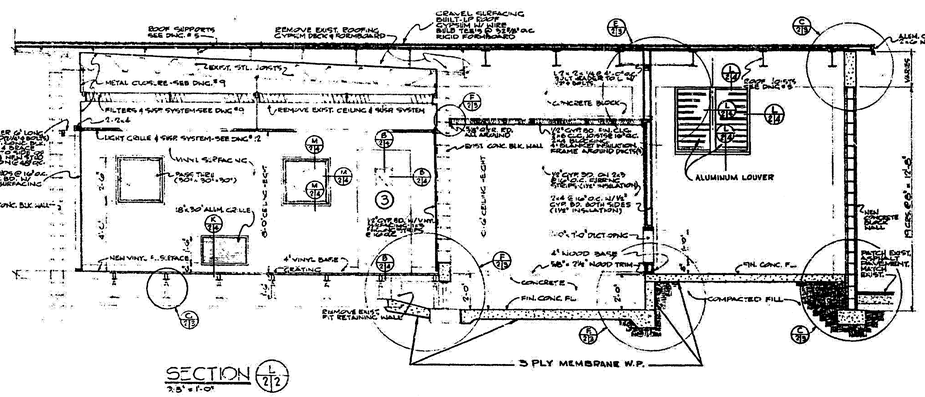


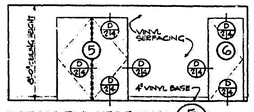


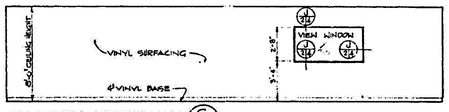
RECORD DRAWING NOTE
'Shall be,' 'Provide,' 'Install,' 'Remove,' etc. indicates work was accomplished under the contract.

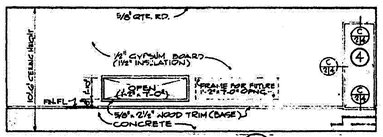
AS BUILT
APPROVED BY
DATE 9-8-65

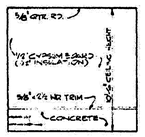
ROOM FINISH SCHEDULE									
AREA	FLOOR	WALLS NORTH	WALLS EAST	WALLS SOUTH	WALLS WEST	BASE	CEILING MATERIAL	CEILING HT	REMARKS
CLEAN ROOM	VINYL	VINYL	VINYL	VINYL	VINYL	VINYL	MET. GRILLE	8'-0"	BASE: EAST, NORTH, WEST WALLS
AIR HANDLING ROOM	CONC.	CONC. BLK.	GYP. BD. CONC.	GYP. BD. CONC.	GYP. BD. CONC.	WOOD	GYP. BD.	10'-6"	BASE BETW. CONC & GYP BD
MECHANICAL ROOM	CONC.	GYP. BD.	CONC. BLK.	CONC. BLK.	CONC. BLK.	WOOD	EXPOSED STRUCT.	—	EAST, SOUTH, WEST WALLS; BASE: NORTH WALL ONLY

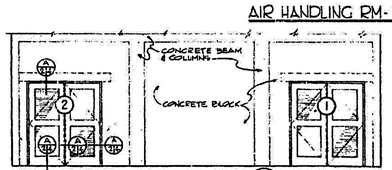


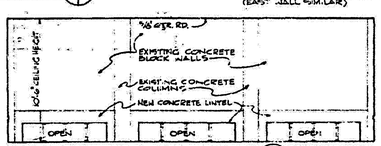












INTERIOR ELEVATIONS
1/4" = 1'-0"

CONTRACT SUPERVISION & ADMINISTRATION BY U. S. ARMY ENGINEER DISTRICT, CANAVERAL MERRITT ISLAND, FLORIDA

CONCURRENCE

SYM	DESCRIPTION	DATE	APPROVED
	ADAPTED FOR INV. NO. BUG(NASA)-08-126-28-45	1/18/66	SEW
	REVISIONS		

ORIGINAL DATE OF DRAWING 19 AUG 64
PREPARED BY: BECO
SUBMITTED
APPROVED
CHIEF, DIRECTING UNIT

MERRITT ISLAND INDUSTRIAL AREA
MSC FLUID TEST COMPLEX
SUPPORT BUILDING
CLEAN ROOM
ARCHITECTURAL

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
LAUNCH OPERATIONS CENTER
COCOA BEACH, FLA.

DWG. SIZE E
SHEET 2 OF 12
SCALE AS SHOWN
NASA-MSC-TD"M-7-1061-3 REV.F
203-274

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SYM	ZONE	DESCRIPTION	DATE	APPROVED

REVISIONS

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SIGNATURES	DATE
DRAWN C. COFFEY	06/10/13
CHECKED K. RIVERA	06/10/13
SUBMITTED J. BELL	06/10/13
ST of LICENSURE: FL LICENSE NO: 69033	06/10/13
APPROVED D. TOTH	6/10/13
L. OTERO	10/3

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

CLOSE/DEMOLISH FACILITIES AND STRUCTURES, VARIOUS LOCATIONS, PACKAGE 1

BUILDING M7-1061 AS-BUILTS

FILE NO.	SIZE	DWG. NO.	REV
	F	79K39389	
PROJ. NO. 97963.9		SHEET 43	

D36

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

FILE: \\thumm01\Drafting\14000 Nasa\212-01_Design-Close-Demo-Var-Facs-FY13\M1\Contract Drawings\Package 1\Cad\14000212P1-D36.dwg PRINTED: 6/10/2013 2:17 PM, BY USER: Kristen Perez LAST MODIFIED: 4/15/2013 8:22 AM, BY USER: Coffey

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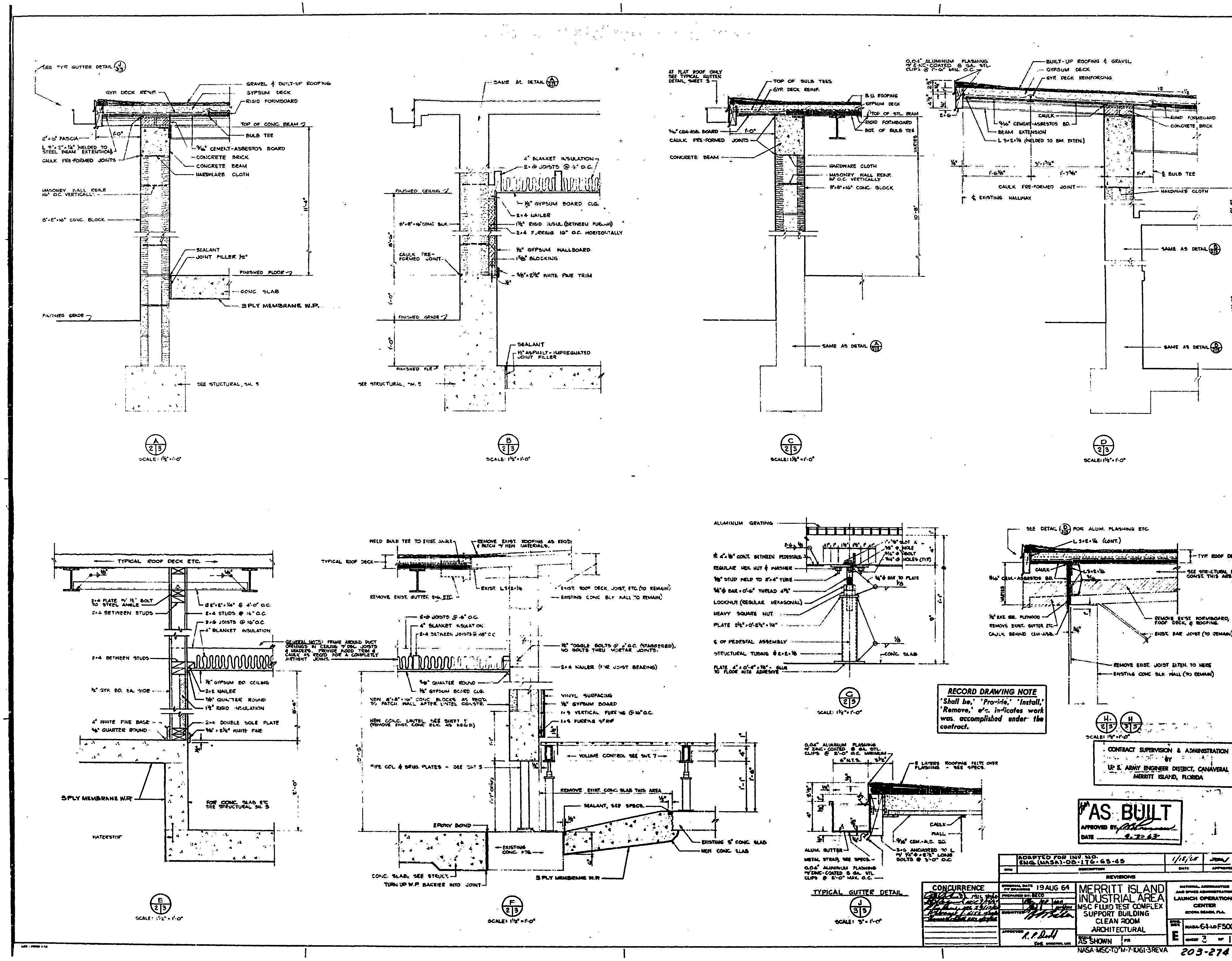

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NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
JOHN F. KENNEDY SPACE CENTER, NASA
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CLOSE/DEMOLISH FACILITIES AND STRUCTURES, VARIOUS LOCATIONS, PACKAGE 1

BUILDING M7-1061 AS-BUILTS

FILE NO.	SIZE	DWG. NO.	REV
	F	79K39389	

PROJ. NO. 97963.9 SHEET 44

D37

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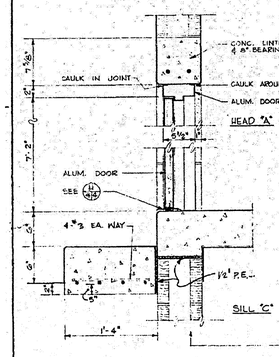
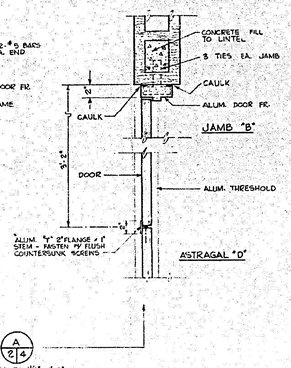
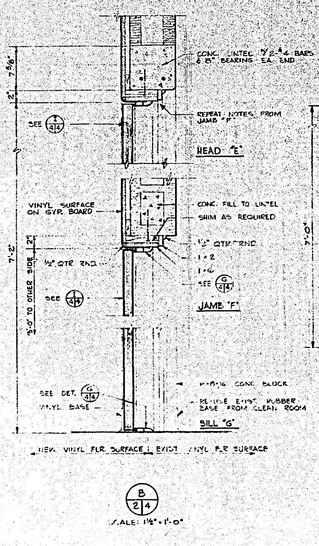
DOOR SCHEDULE

MARK	SIZE	TYPE	HEAD	JAMB	SILL	ASTRAGAL	REMARKS
1	PR. 3-0×7-2×1¾	HOLLOW CORE LOUVERED ALUM.	A	B	C	D	
2	PR. 3-0×7-2×1¾	HOLLOW CORE LOUVERED ALUM.	A	B	C	D	
3	3-0×7-2×1¾	SOL. CORE WD.	E	F	G	—	
4	2-6×7-0×1¾	SOL. CORE WD.	H	I	J	—	12"×12" ½" CLEAR GLASS LITE
5	PR. 3-0×7-0×1¾	FLUSH WOOD	K	L	N	M	EXIST. DOORS - OPERABLE FROM INSIDE ONLY SEE SPEC.
6	3-0×7-0×1¾	FLUSH WOOD	K	L	N	—	EXIST. DOORS - OPERABLE FROM INSIDE ONLY SEE SPEC.





A 2/4 SCALE: 1½"=1'-0"



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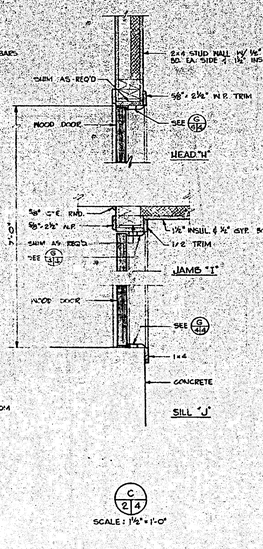

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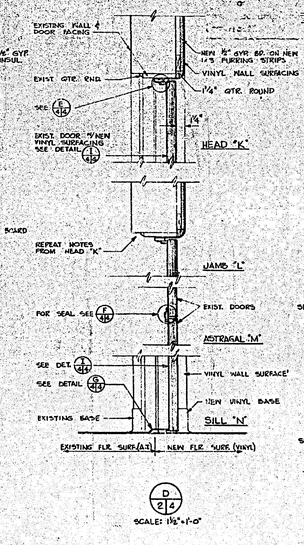
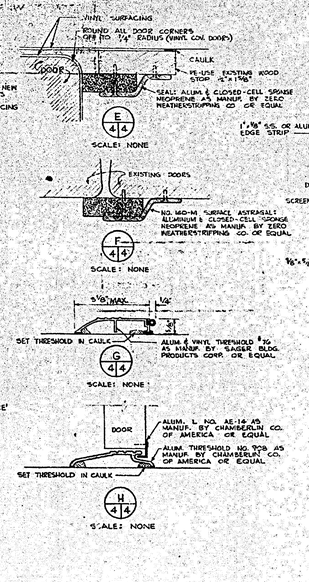
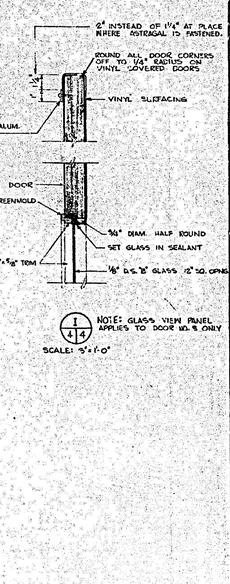
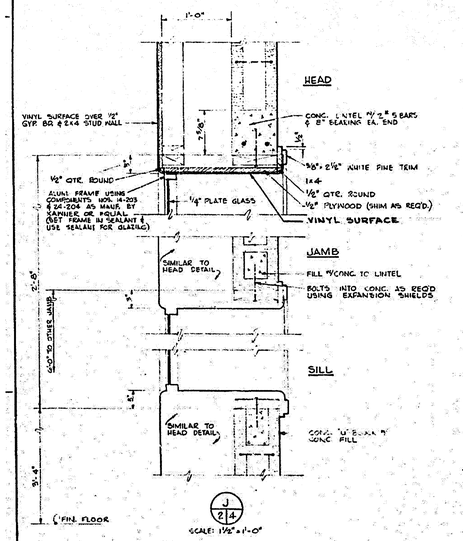
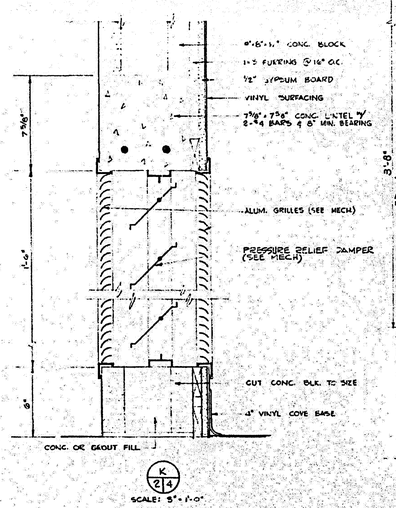


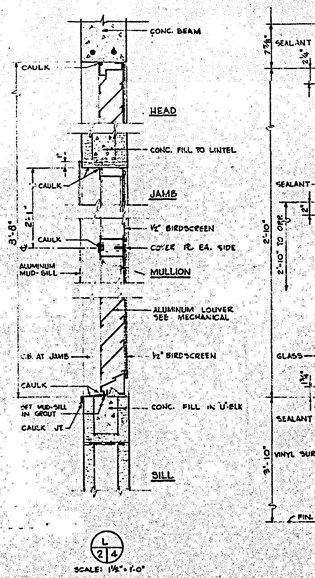
D 2/4 SCALE: 1½"=1'-0"

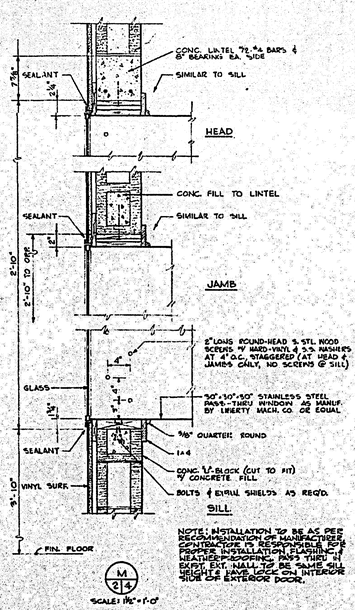




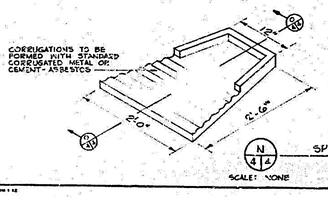


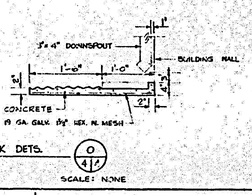


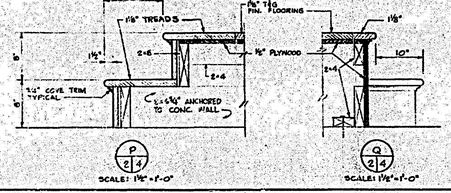




NOTE: INSTALLATION TO BE AS PER RECOMMENDATION OF MANUFACTURER. CONTRACTOR IS RESPONSIBLE FOR PROPER INSTALLATION. FLASHING & WEATHER-PROOFING, PARTS THRU' IN EXIST. EXT. WALL TO BE SAME SILL HEIGHT & WIDTH. LOCK ON INTERIOR SIDE OF EXTERIOR DOOR.







RECORD DRAWING NOTE
'Shall be,' 'Provide,' 'Install,' 'Remove,' etc. indicates work was accomplished under the contract.

AS BUILT
APPROVED BY
DATE 9-8-15

CONTRACT SUPERVISION & ADMINISTRATION BY
U. S. ARMY ENGINEER DISTRICT, CANAVERAL
MERRITT ISLAND, FLORIDA

CONCURRENCE

SYM	DESCRIPTION	DATE	APPROVED
	ADAPTED FOR ILSV NO. EAG(NASA)-02-176-65-45	1/18/65	

REVISIONS

ORIGINAL DATE OF DRAWING 19 AUG 64
PREPARED BY: BECO
SUBMITTED
APPROVED
P.E. DIRECTOR, USE

MERRITT ISLAND INDUSTRIAL AREA
MSC FLUID TEST COMPLEX
SUPPORT BUILDING
CLEAN ROOM
ARCHITECTURAL

SCALE: AS SHOWN FR
NASA-MSC-TD"M-7-1061-3 REVA 203-274

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
LAUNCH OPERATIONS CENTER
COCOA BEACH, FLA.
ENG. SIZE E
NASA-64 4 OF 500
SHEET 4 OF 12

THIS SPACE RESERVED

SYM	ZONE	DESCRIPTION	DATE	APPROVED
		REVISIONS		

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JONES EDMUNDS
730 NE WALDO ROAD, GAINESVILLE, FLORIDA 32641 / (352) 377-5821
3910 S WASHINGTON AVE, SUITE 210, TITUSVILLE, FLORIDA 32780 / (321) 269-2950

SIGNATURES	DATE
DRAWN C. COFFEY	06/10/13
CHECKED K. RIVERA	06/10/13
SUBMITTED J. BELL	06/10/13
ST of LICENSURE: FL LICENSE NO: 69033	06/10/13
APPROVED D. TOTH	6/10/13
L. OTERO	6/10/13

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

CLOSE/DEMOLISH FACILITIES AND STRUCTURES, VARIOUS LOCATIONS, PACKAGE 1

BUILDING M7-1061 AS-BUILTS

FILE NO.	SIZE	DWG. NO.	REV
	F	79K39389	
PROJ. NO. 97963.9		SHEET 45	

D38

FILE: \\titusnas01\shares\14000 Nasa\215-01_Design-Close-Demo-Var-Facs-FY13&14\Contract Drawings\Package 1\Cad\14000212P1-D38.dwg PRINTED: 6/10/2013 2:17 PM, BY USER: Kristen Perez LAST MODIFIED: 4/15/2013 8:23 AM, BY USER: CCoffey

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

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CONTRACT SUPERVISION & ADMINISTRATION BY U. S. ARMY ENGINEER DISTRICT, CANAVERAL MERRITT ISLAND, FLORIDA

AS BUILT APPROVED BY ... DATE 9-8-65

FLOOR & FOUNDATION PLAN 1/4"=1'-0

DETAIL 1/2"=1'-0

SECTION 1/2"=1'-0

TYP. LINTEL ELEVATION 3/4"=1'-0

SECTION Q-Q

SECTION P-P

ROOF FRAMING PLAN (T.O.S. EL. 21'-6 1/2 UNLESS NOTED) 1/4"=1'-0

DETAIL "A" 1"=1'-0

STRUCTURAL DESIGN NOTES:
1. ALL CONCRETE SHALL DEVELOP 5,000 P.S.I. f'c @ 28 DAYS.
2. REINF. STEEL SHALL BE INTERMEDIATE GRADE f's=20,000 P.S.I.
3. ALL WORK SHALL CONFORM TO A.C.I. BLDG. CODE (318-63).
4. LIVE LOADS: ROOFS 20 PSF, FLOORS 125 PSF, HORIZ. WIND 30 PSF, ROOF UPLIFT = 57.5 PSF.
5. MAX. SOIL PRESSURE UNDER FOOTINGS 5,000 PSF.
6. ALL FOOTING REINF. STEEL SHALL HAVE 3" BOTT. CLEARANCE.
7. PROVIDE BAR SUPPORTS & SPACERS PER A.C.I. 315-57
8. STRUCT. STEEL PER SPECIFICATIONS.

SYM	ZONE	DESCRIPTION	DATE	APPROVED
		REVISIONS		
		ADAPTED FOR INV. NO. ENG (NASA)-08-176-65-45	1/18/65	

THIS DRAWING CREATED IN AUTOCAD 2007 FILE FORMAT AND WILL BE REVISED ONLY ON AN AUTOCAD SYSTEM. FILE: 14000212P1-D39.DWG

JONES EDMUNDS
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3910 S WASHINGTON AVE, SUITE 210, TITUSVILLE, FLORIDA 32780 / (321) 269-2950

SIGNATURES	DATE
DRAWN C. COFFEY	06/10/13
CHECKED K. RIVERA	06/10/13
SUBMITTED J. [illegible]	06/10/13
ST of LICENSURE: FL LICENSE NO: 69033	06/10/13
APPROVED D. TOTH	6/10/13
J. OTERO	

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

CLOSE/DEMOLISH FACILITIES AND STRUCTURES, VARIOUS LOCATIONS, PACKAGE 1

BUILDING M7-1061 AS-BUILTS

FILE NO.	SIZE	DWG. NO.	REV
	F	79K39389	
PROJ. NO. 97963.9		SHEET 46	

CONCURRENCE

ORIGINAL DATE OF DRAWING	19 AUG 64
PREPARED BY	BECO/VTS
SUBMITTED	
APPROVED	R.P. Dodd
SCALE	AS SHOWN
FSN	

MERRITT ISLAND INDUSTRIAL AREA
MSC FLUID TEST COMPLEX
SUPPORT BUILDING
CLEAN ROOM
STRUCTURAL

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
LAUNCH OPERATIONS CENTER
COCOA BEACH, FLA.

CONTR. NO. NASA-64-10F500
SIZE E
SHEET 5 OF 12
NASA-MSC-TDM-7-106E3REV.J
205-274

D39

KSC FORM 1-11 (3/76)(C/6 3/94)

FILE: \\fstsmd01\grafting\14000 Nasa\212-01_Design-Close-Demo-Var-Facs-FY13&14\Contract Drawings\Package 1\Dwl\14000212P1-D39.dwg PRINTED: 6/10/2013 2:18 PM, BY USER: Kristen Perez LAST MODIFIED: 4/15/2013 8:23 AM, BY USER: CCoffey

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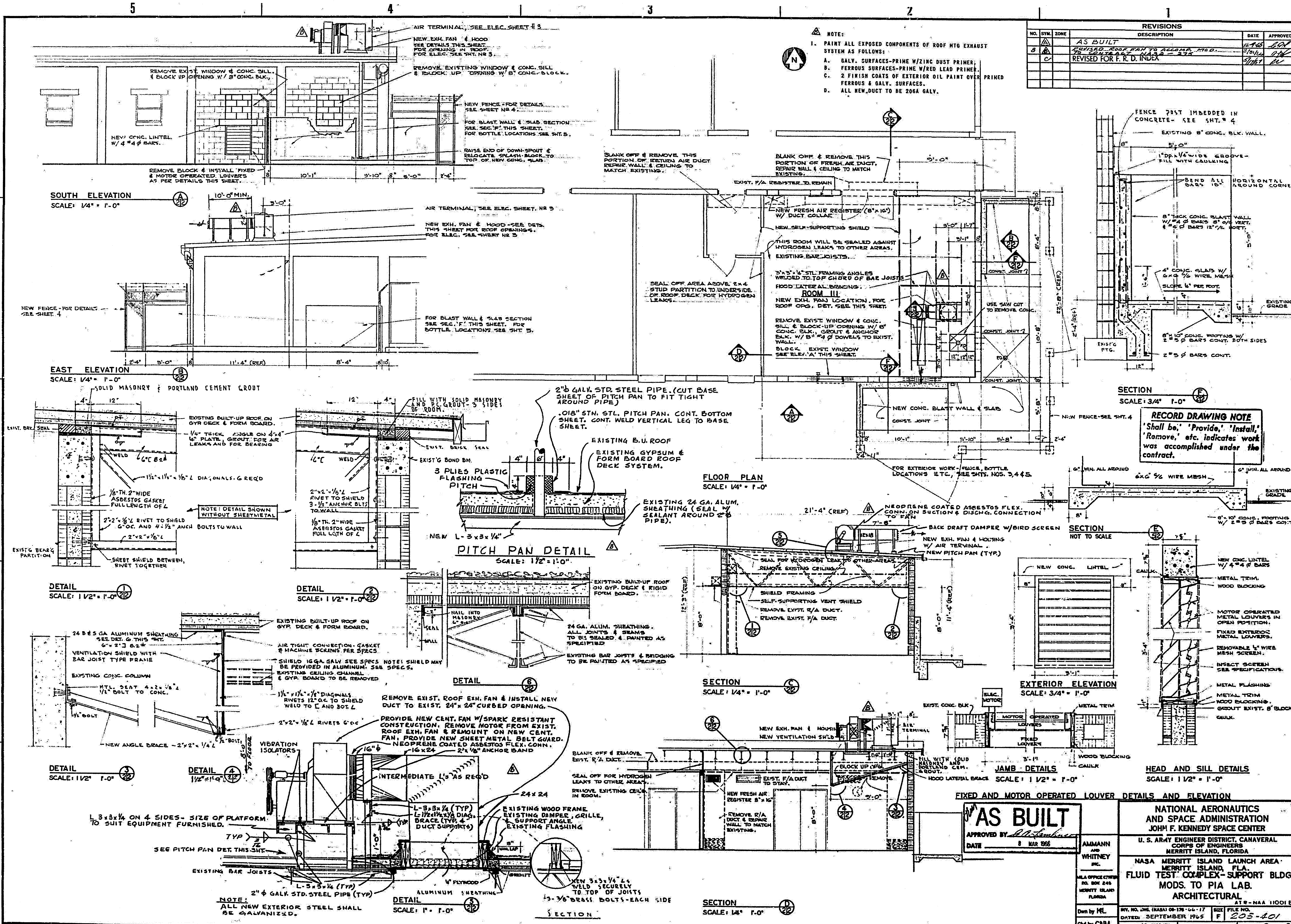

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SYM	ZONE	DESCRIPTION	DATE	APPROVED

REVISIONS

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3910 S WASHINGTON AVE, SUITE 210, TITUSVILLE, FLORIDA 32780 / (321) 269-2950

SIGNATURES	DATE
DRAWN C. COFFEY	06/10/13
CHECKED K. RIVERA	06/10/13
SUBMITTED J. BELL	06/10/13
ST of LICENSURE: FL LICENSE NO: 69033	06/10/13
APPROVED D. TOTH	6/10/13
I. OTERO	JUN 12/13

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

CLOSE/DEMOLISH FACILITIES AND STRUCTURES, VARIOUS LOCATIONS, PACKAGE 1

BUILDING M7-1061 AS-BUILTS

D40

FILE NO.	SIZE	DWG. NO.	REV
	F	79K39389	

PROJ. NO. 97963.9 — SHEET 47

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

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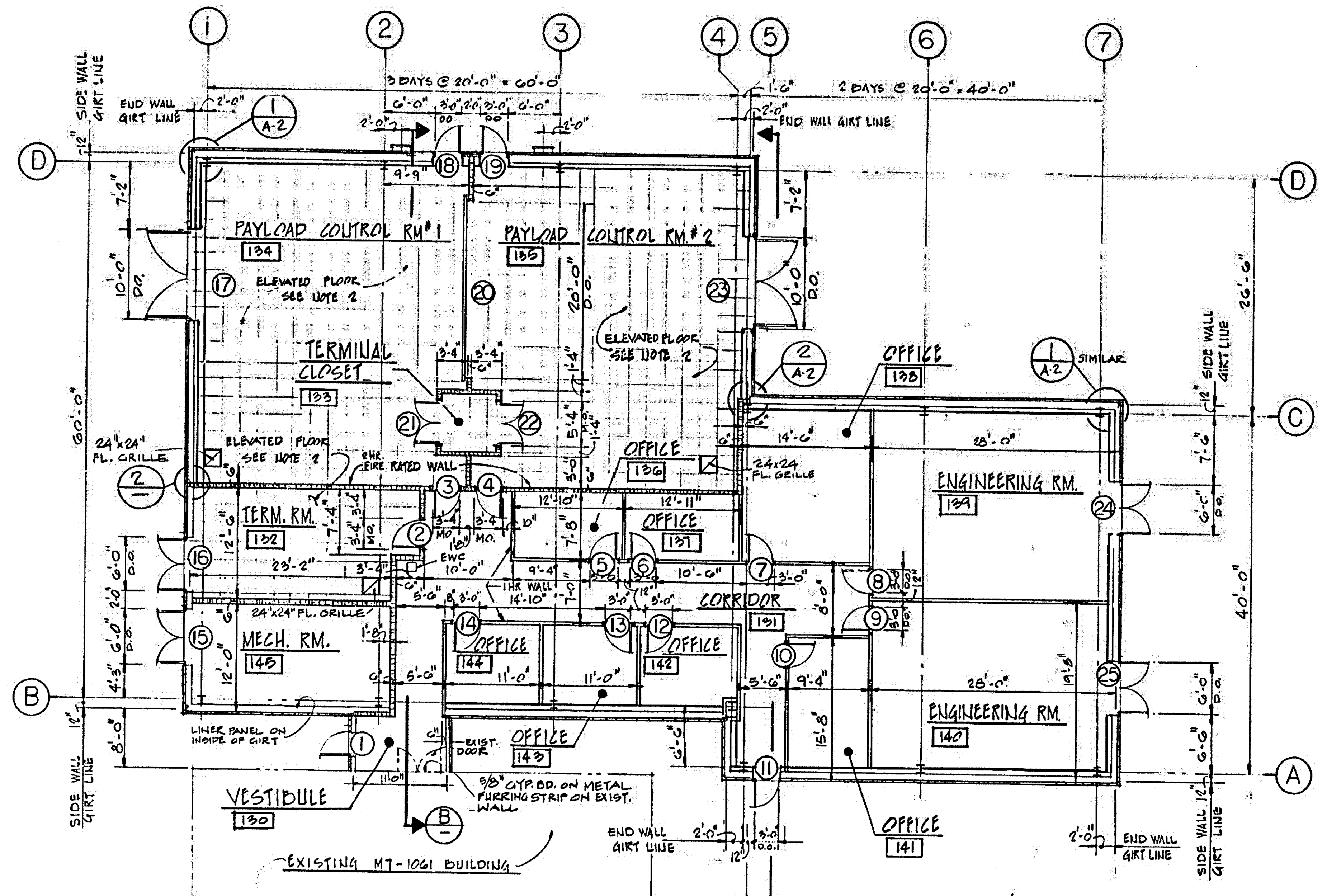
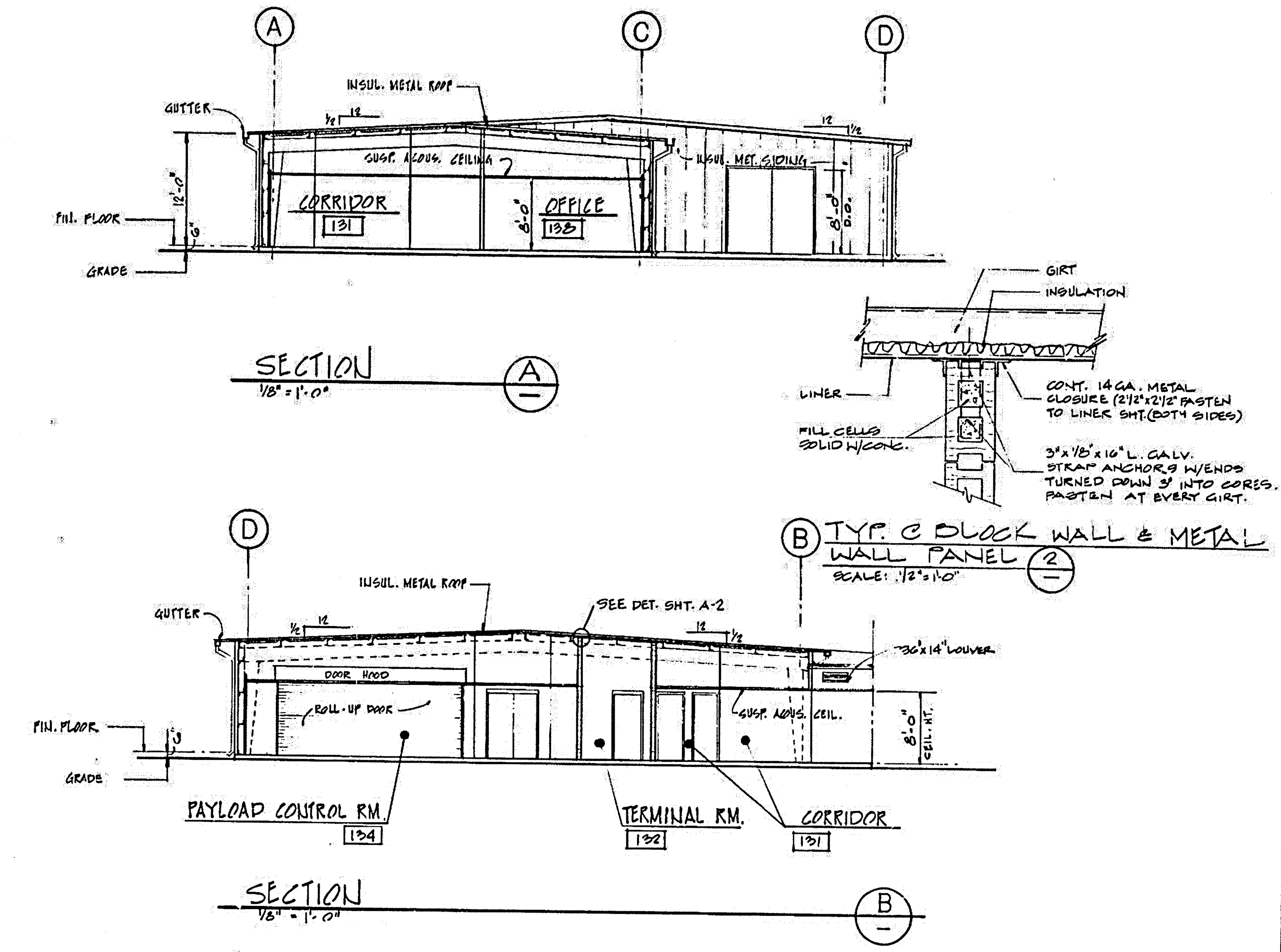
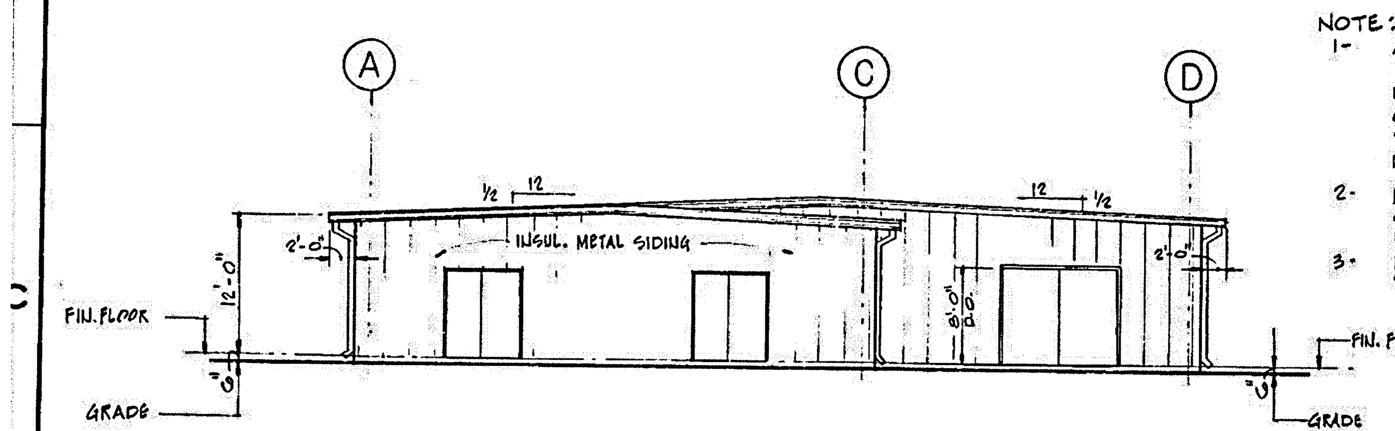


FLOOR PLAN
1/8" = 1'-0"

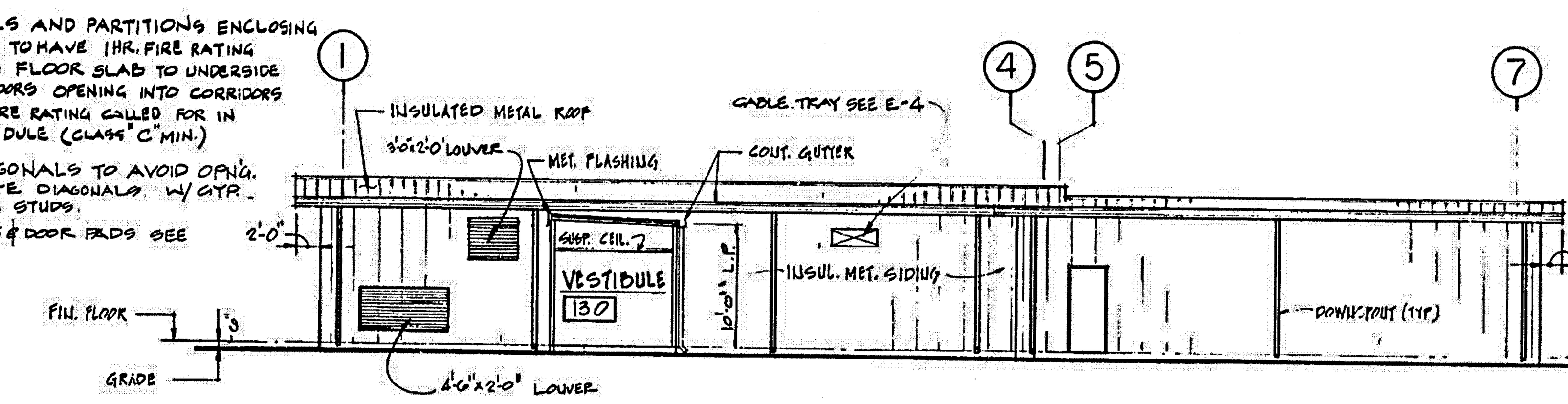


NOTE:
1- ALL WALLS AND PARTITIONS ENCLOSING CORRIDORS TO HAVE 1HR. FIRE RATING MIN. FROM FLOOR SLAB TO UNDERSIDE OF ROOF. DOORS OPENING INTO CORRIDORS TO HAVE FIRE RATING CALLED FOR IN DOOR SCHEDULE (CLASS "C" MIN.)
2- WIND DIAGONALS TO AVOID OPN'G. COORDINATE DIAGONALS W/ GYP. BD. METAL STUDS.
3- FOR RAMPS & DOOR PADS SEE SHEET S-1

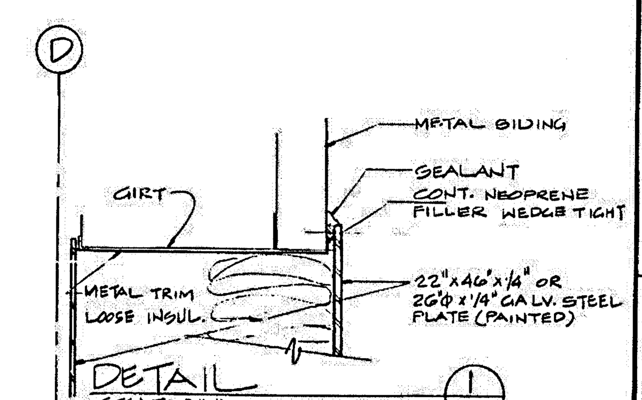
NOTES:
1.- FOR WALL HEIGHTS & MATERIAL SEE LEGEND ON DWG. A-2
2.- FOR EXTENT OF DEPRESSED SLAB TO ACCOMODATE ELEVATED FLOOR SEE DWG. Nº S-1.
SEE DWG. A-2 FOR TYPICAL DETAIL OF ELEVATED FLOOR.

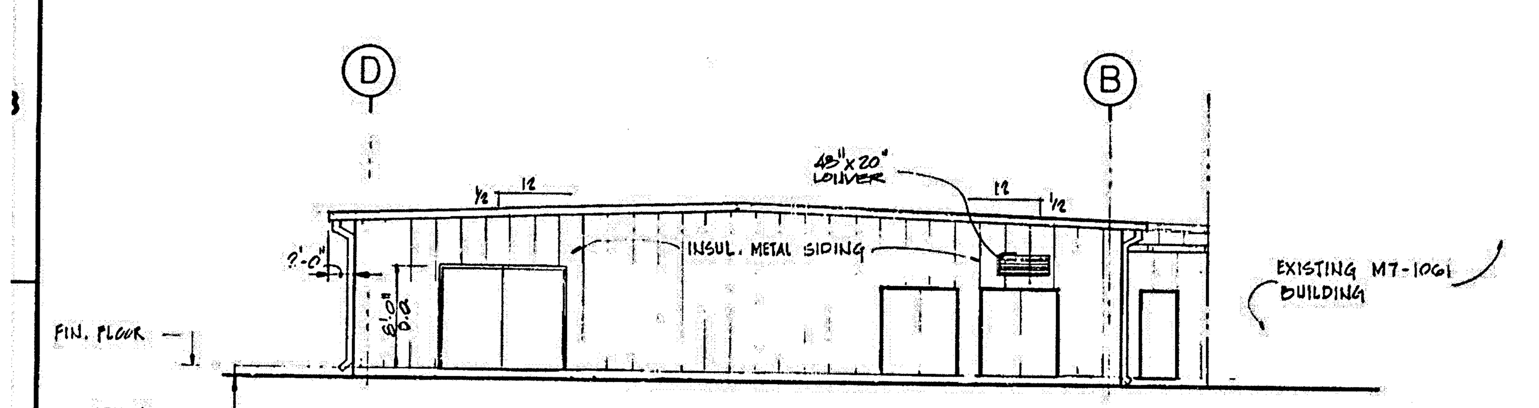


NORTH ELEVATION
1/8" = 1'-0"

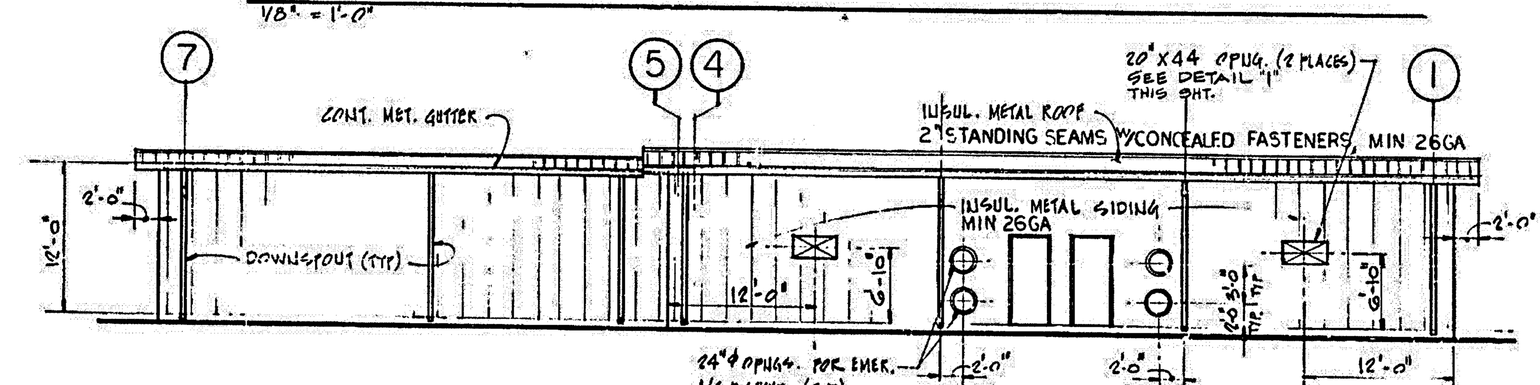


EAST ELEVATION
1/8" = 1'-0"





SOUTH ELEVATION
1/8" = 1'-0"



WEST ELEVATION
1/8" = 1'-0"

0 4' 8' 12' 16' 20' 24'
1/8" = 1'-0"

SYM.	ZONE	DESCRIPTION	DATE	APPROVED
REVISIONS				

SIGNATURES		DATE
DRAWN	BJ	9-3-85
CHECKED	Em	9-9-85
ENGINEER	M. Gordon	9-9-85
	J. Cavin	9-10-85
	Lamos	9/10/85
SUBMITTED	R. [illegible]	9-10-85
APPROVED	[signature]	10-2-85

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

INDUSTRIAL AREA
ADDITION TO BUILDING M7 1061 FOR PAYLOAD CONTROL ROOMS FLOOR PLAN & ELEVATIONS

BRISC BURNS AND ROE INDUSTRIAL SERVICES CORP. 1980 NORTH ATLANTIC AVENUE, SUITE 330 COCOA BEACH, FLORIDA 32931

A-1

SIZE F | DWG. NO. 79K29002 | REV
PROJ. NO. PCN 90709 | SHEET 4

KSC FORM 1-11 (REV. 3/76)

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SYM	ZONE	DESCRIPTION	DATE	APPROVED
REVISIONS				

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3910 S WASHINGTON AVE, SUITE 210, TITUSVILLE, FLORIDA 32780 / (321) 269-2950

SIGNATURES	DATE
DRAWN C. COFFEY	06/10/13
CHECKED K. RIVERA	06/10/13
SUBMITTED J. BELL	06/10/13
ST of LICENSURE: FL LICENSE NO: 69033	06/10/13
APPROVED D. TOTH	6/10/13
I. OTERO	JUN 12 '13

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

CLOSE/DEMOLISH FACILITIES AND STRUCTURES, VARIOUS LOCATIONS, PACKAGE 1

BUILDING M7-1061 AS-BUILTS

D41

FILE NO. | SIZE F | DWG. NO. 79K39389 | REV
PROJ. NO. 97963.9 | SHEET 48

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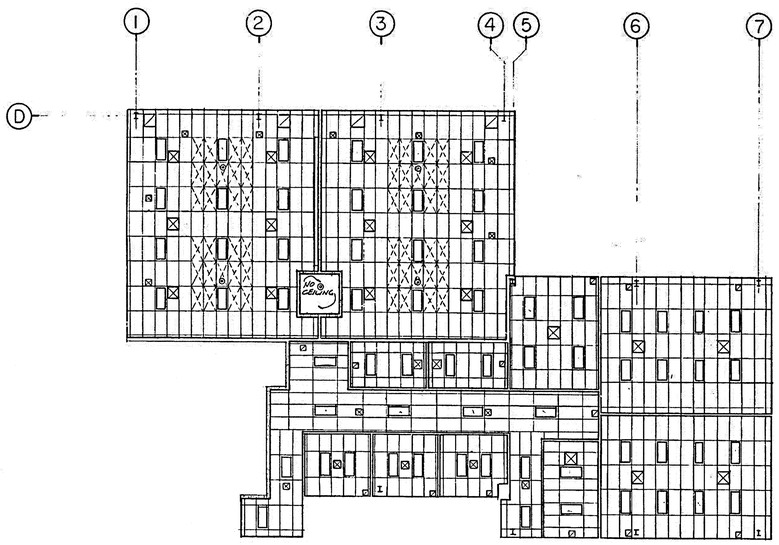
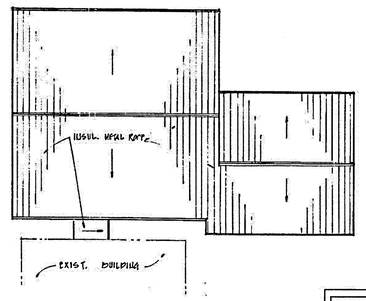
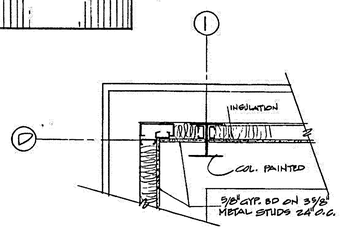


ROOF PLAN
1/16" = 1'-0"

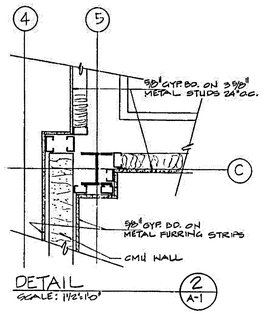


LEGEND :

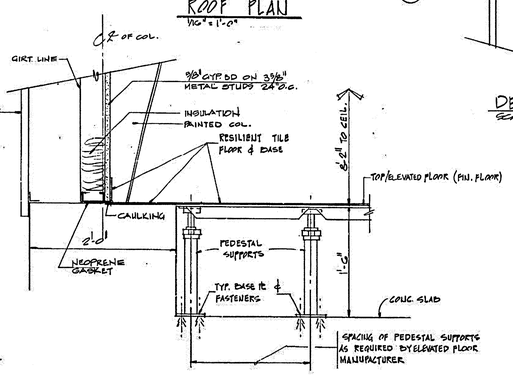
- CONCRETE BLOCK WALL TO ROOF
- CONCRETE BLOCK - 2 HOUR RATED WALL TO ROOF
- 3 5/8" METAL STUD PARTITION WITH 5/8" GYP. BD. EACH SIDE
- 2'x4' SUSPENDED ACOUSTICAL CEILING
- 2'x4' LAY-IN FLUOR. LIGHT FIXTURE
- HVAC SUPPLY AIR DIFFUSER
- HVAC RETURN AIR GRILLE
- HALON NOZZLES IN CEILING.
- TIE DOWN CEILING PANEL W/ HANGER WIRE



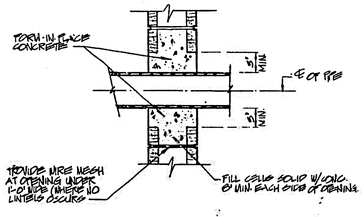
DETAIL
SCALE: 1 1/2" = 1'-0"
1 / A-1



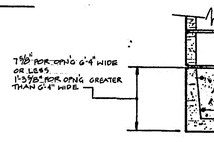
DETAIL
SCALE: 1 1/2" = 1'-0"
2 / A-1



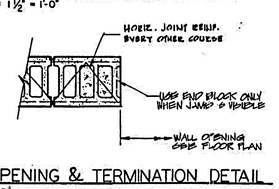
REFLECTED CEILING PLAN
1/8" = 1'-0"



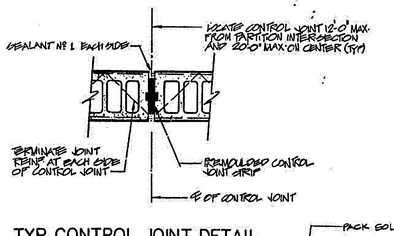
TYP. PIPE PENETRATION DETAIL
SCALE: 1 1/2" = 1'-0"



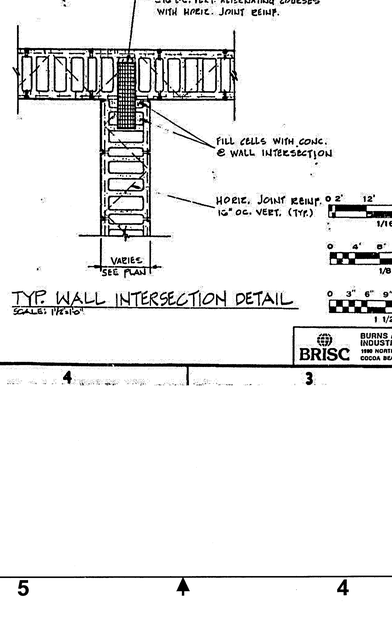
TYP. LINTEL BEAM DETAIL
SCALE: 1" = 1'-0"



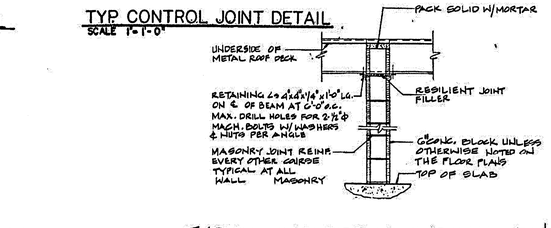
WALL OPENING & TERMINATION DETAIL
SCALE: 1 1/2" = 1'-0"



TYP CONTROL JOINT DETAIL
SCALE: 1" = 1'-0"

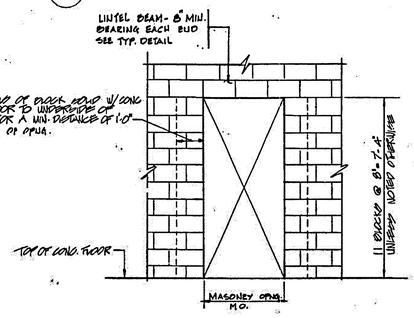


TYP. WALL INTERSECTION DETAIL
SCALE: 1 1/2" = 1'-0"



TYP. INTERIOR MASONRY WALL @ ROOF
SCALE: 1 1/2" = 1'-0" (PARALLEL TO ROOF BEAMS)

TYPICAL INTERIOR MASONRY SECTION
SCALE: 1 1/2" = 1'-0" (PERPENDICULAR TO ROOF BEAMS)



TYP. ELEV. MASONRY (DOOR) OPENING
SCALE 1/2" = 1'-0"

1/16" = 1'-0"
1/8" = 1'-0"
1 1/2" = 1'-0"

SYM.	ZONE	DESCRIPTION	DATE	APPROVED

REVISIONS

SIGNATURES	DATE
DRAWN EJ	9-3-81
CHECKED EM	9-9-81
ENGINEER M. Smith	9-9-81
	5-4-82
	9/11/82
SUBMITTED Patricia	8-16-85
APPROVED	DATE
TITLE	12-2-85

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

INDUSTRIAL AREA
ADDITION TO BUILDING M7 1061 FOR PAYLOAD CONTROL ROOMS
REFLECTED CEIL. PLAN ROOF PLAN

SIZE F | DWG. NO. 79K29002 | REV
PROJ NO. PCN90709 | SHEET 5

BRISC — BURNS AND ROE INDUSTRIAL SERVICES CORP. 1990 NORTH ATLANTIC AVENUE, SUITE 330 COCOA BEACH, FLORIDA 32931

A-2

KSC FORM 1-11 (REV. 3/76)

THIS SPACE RESERVED

SYM	ZONE	DESCRIPTION	DATE	APPROVED

REVISIONS

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JONES EDMUNDS
730 NE WALDO ROAD, GAINESVILLE, FLORIDA 32641 / (352) 377-5821
3910 S WASHINGTON AVE, SUITE 210, TITUSVILLE, FLORIDA 32780 / (321) 269-2950

SIGNATURES	DATE
DRAWN C. COFFEY	06/10/13
CHECKED K. RIVERA	06/10/13
SUBMITTED J. GELL	06/10/13
ST of LICENSURE: FL LICENSE NO: 69033	06/10/13
APPROVED D. TOTH	6/10/13
I. OTERO	6/10/13

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

CLOSE/DEMOLISH FACILITIES AND STRUCTURES, VARIOUS LOCATIONS, PACKAGE 1

BUILDING M7-1061 AS-BUILTS

FILE NO. | SIZE F | DWG. NO. 79K39389 | REV

PROJ. NO. 97963.9 | SHEET 49

D42

FILE: \\Titusms01\drafting\14000 Nasa\212-01_Design-Close-Demo-Var-Facs-FY13&14\Contract Drawings\Package 1\Civil\14000212P1-D42.dwg PRINTED: 6/10/2013 2:18 PM, BY USER: Kristian Perez LAST MODIFIED: 4/15/2013 8:23 AM, BY USER: CCoffey

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

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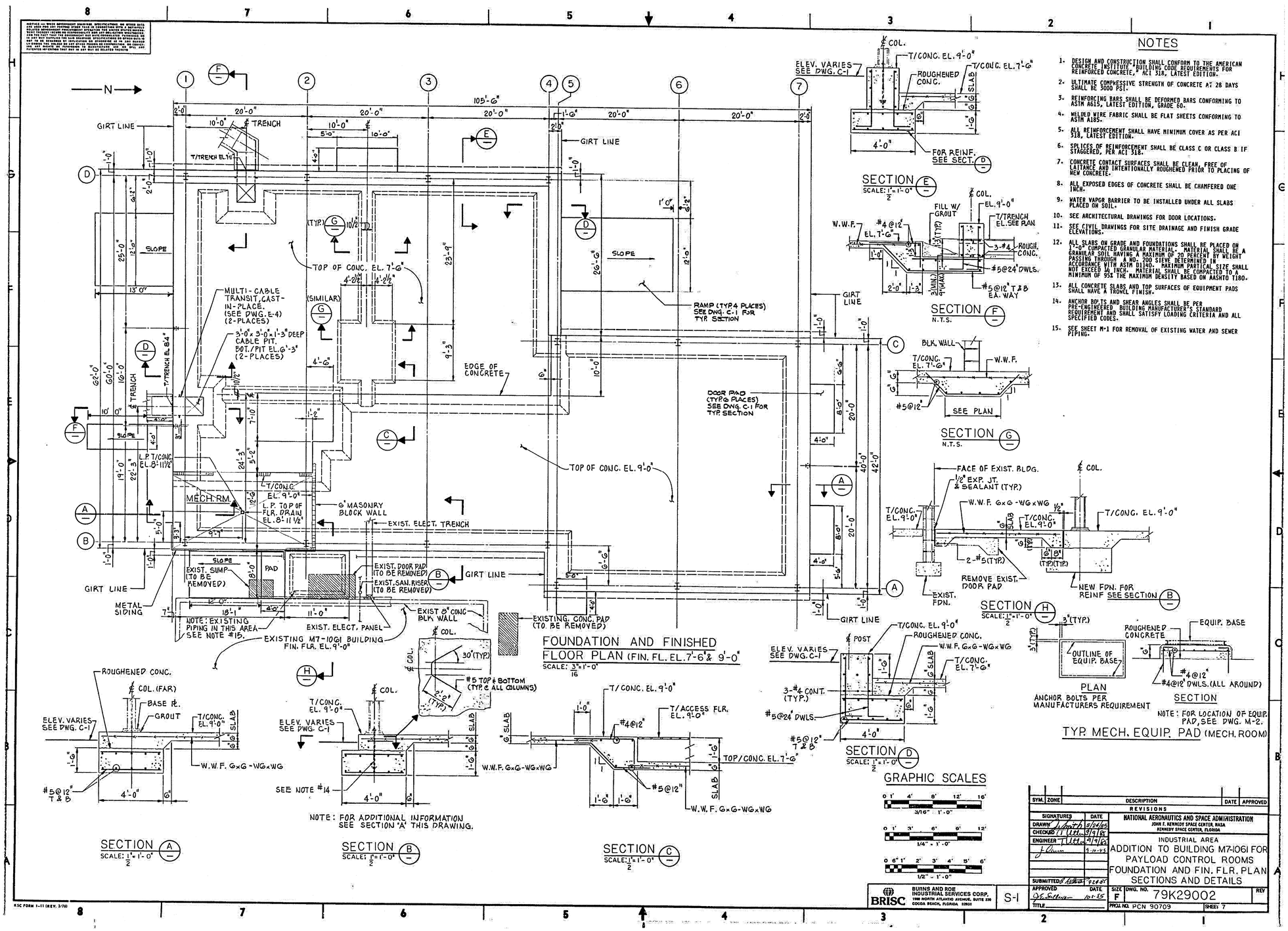

NOTES

1. DESIGN AND CONSTRUCTION SHALL CONFORM TO THE AMERICAN CONCRETE INSTITUTE "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE," ACI 318, LATEST EDITION.
2. ULTIMATE COMPRESSIVE STRENGTH OF CONCRETE AT 28 DAYS SHALL BE 3000 PSI.
3. REINFORCING BARS SHALL BE DEFORMED BARS CONFORMING TO ASTM A615, LATEST EDITION, GRADE 60.
4. WELDED WIRE FABRIC SHALL BE FLAT SHEETS CONFORMING TO ASTM A185.
5. ALL REINFORCEMENT SHALL HAVE MINIMUM COVER AS PER ACI 318, LATEST EDITION.
6. SPLICES OF REINFORCEMENT SHALL BE CLASS C OR CLASS B IF STAGGERED, PER ACI 318.
7. CONCRETE CONTACT SURFACES SHALL BE CLEAN, FREE OF LAITANCE AND INTENTIONALLY ROUGHENED PRIOR TO PLACING OF NEW CONCRETE.
8. ALL EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED ONE INCH.
9. WATER VAPOR BARRIER TO BE INSTALLED UNDER ALL SLABS PLACED ON SOIL.
10. SEE ARCHITECTURAL DRAWINGS FOR DOOR LOCATIONS.
11. SEE CIVIL DRAWINGS FOR SITE DRAINAGE AND FINISH GRADE ELEVATIONS.
12. ALL SLABS ON GRADE AND FOUNDATIONS SHALL BE PLACED ON 1'-0" COMPACTED GRANULAR MATERIAL. MATERIAL SHALL BE A GRANULAR SOIL HAVING A MAXIMUM OF 20 PERCENT BY WEIGHT PASSING THROUGH A NO. 200 SIEVE DETERMINED IN ACCORDANCE WITH ASTM D1140. MAXIMUM PARTICAL SIZE SHALL NOT EXCEED ¼ INCH. MATERIAL SHALL BE COMPACTED TO A MINIMUM OF 95% THE MAXIMUM DENSITY BASED ON AASHTO T180.
13. ALL CONCRETE SLABS AND TOP SURFACES OF EQUIPMENT PADS SHALL HAVE A TROWEL FINISH.
14. ANCHOR BOLTS AND SHEAR ANGLES SHALL BE PER PRE-ENGINEERED BUILDING MANUFACTURER'S STANDARD REQUIREMENT AND SHALL SATISFY LOADING CRITERIA AND ALL SPECIFIED CODES.
15. SEE SHEET M-1 FOR REMOVAL OF EXISTING WATER AND SEWER PIPING.

SYM	ZONE	DESCRIPTION	DATE	APPROVED

REVISIONS

SIGNATURES	DATE
DRAWN	6/14/13
CHECKED	9/9/13
ENGINEER	9/9/13
	9.11.13
SUBMITTED	9.24.13
APPROVED	10.1.13
TITLE	

BURNS AND ROE INDUSTRIAL SERVICES CORP. 1998 NORTH ATLANTIC AVENUE, SUITE 330 COCOA BEACH, FLORIDA 32931

BRISC

S-1

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

INDUSTRIAL AREA

ADDITION TO BUILDING M7-1061 FOR PAYLOAD CONTROL ROOMS
FOUNDATION AND FIN. FLR. PLAN SECTIONS AND DETAILS

SIZE	DWG. NO.	REV
F	79K29002	

PROJ. NO. PCN 90709 SHEET 7

THIS SPACE RESERVED

SYM	ZONE	DESCRIPTION	DATE	APPROVED

REVISIONS

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JONES EDMUNDS
730 NE WALDO ROAD, GAINESVILLE, FLORIDA 32641 / (352) 377-5821
3910 S WASHINGTON AVE, SUITE 210, TITUSVILLE, FLORIDA 32780 / (321) 269-2950

SIGNATURES	DATE
DRAWN C. COFFEY	06/10/13
CHECKED K. RIVERA	06/10/13
SUBMITTED J. BELL	06/10/13
31 of LICENSURE: FL LICENSE NO: 69033	06/10/13
APPROVED D. TOTH	6/10/13
I. OTERO	6/10/13

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

CLOSE/DEMOLISH FACILITIES AND STRUCTURES, VARIOUS LOCATIONS, PACKAGE 1

BUILDING M7-1061 AS-BUILTS

FILE NO.	SIZE	DWG. NO.	REV
	F	79K39389	

PROJ. NO. 97963.9 SHEET 50

D43

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

FILE: \\tsunami01\drafting\14000 Noun\212-01_Design-Close-Demo-Ver-Fcns-FY13&14\Contract Drawings\Package 1\Cad\140002I2P1-D43.dwg PRINTED: 6/10/2013 2:18 PM, BY USER: Kristen Perez LAST MODIFIED: 4/15/2013 8:23 AM, BY USER: CCoffey

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N

ROOM 114

DETAIL (E) NTS

SAEF 2

2 E11 3 E11

DETAIL (K)

94'-0 ±

CABLE TRENCH

(A)

5'-0" (TYP)

N 1519020.89
E 614878.11 SEE NOTE 6

24"X6" CABLE TRAY WITH COVER

OVERLAND CABLE TRAY
SCALE 1:30

2/0 COPPER CABLE FOR LIGHTNING PROTECTION

(B)

DETAIL (J)

CABLE TRENCH

(A)

DETAIL (H)

N 1519541.05
E 615057.94

EXISTING TRENCH

(A)

ADDITION TO M7-1061

-2'C SEE DWG E-3

(C)

DETAIL (D)

EL 10'-2"

18"X 4" TRAY

EXISTING BLDG. M7-1061

EXIST. FIRE ALARM PNL. EL. 11'-0"

2C

3/4"C

125

18"X 4" TRAY EL. 9'-10"

TTCA

EXIST

120

26'-0"

24"X 4" TRAY

ESS

115

ALL CABLES TO BE COILED IN EXISTING TRAY

DETAIL (E)

HID B329

015

SCALE 1:30

(G) DETAIL

4'-0"

ALUMINUM CABLE TRAY 30" WIDE X 6" DEEP W/FULL COVER

ALUMINUM ALLOY TERMINAL - BURNDY TYPE YA-A-02 EQUAL FOR #4/0 CABLE

#4/0 BARE CU STRANDED CABLE

15KV STANDOFF INSULATOR ISOLANTITE PART # 3316

3/4"ØX 20'-0" COPPERCLAD STEEL GRD. ROD

SECTION (B) NTS

FOR DETAILS SEE DWG. G-1

QIKTAP CAT # QT2626

THOMAS & BETTS CAT.# 10105

2/0 COPPER CABLE

DETAIL (G)

CABLE TR

B.O.T. EL 8'-6"

B.O.T. EL 6'-6"

TOP OF TRENCH EL 7'-8"±

EDGE OF EXIST. PAVEMENT

(TYP) EL 5'-3"

10'-0"

20'-0"

SUPPORT SPACING 10'-0" TYP

DETAIL (J)

EDGE OF EXIST. PAVEMENT

TOP OF TRENCH EL. 10'-0"

MATCH ELEV. WITH EXISTING PAVEMENT

10'-0"

B.O.T. EL 9'-6"

CABLE TRAY

6'-6"

B.O.T. EL 9'-6"

10'-0"

B.O.T. EL 8'-6"

EL 5'-3" (TYP)

B.O.T. EL 8'-6"

3'-6"

EL. 7'-9"

B.O.T. EL. 8'-0"

EL. 6'-3"

B.O.T. EL 6'-6"

B.O.T. EL 7'-6"

DETAIL (K) NTS

NOTES:

1. FOR NOTES AND SYMBOLS SEE DWG. E-1 & E-2.
2. INSTALL DUAL MOUNTED 100 A FRAME, 3 POLE 600 VAC CIRCUIT BREAKERS. ONE SHALL HAVE A 80A TRIP AND NAME PLATE ENGRAVED "LIGHTING TRANSFORMER - PANEL BOARD LP-1" THE OTHER SHALL HAVE A 30A TRIP AND NAME PLATE ENGRAVED "M7-1061 ADDITION / MINI - POWER CENTER.
3. INSTALL 400 A FRAME, 400 A TRIP, 3 POLE, 600VAC CIRCUIT BREAKER LABLE COMPARTMENT DOOR M7-1061 ADDITION FP-1.
4. INSTALL 400A FRAME, 400A TRIP, 3POLE, 600VAC CIRCUIT BREAKER LABLE COMPARTMENT DOOR M7-1061 ADDITION CONTROL ROOMS PANEL.
5. ALL NEW CIRCUIT BREAKERS INSTALLED IN MCC-FT-E02-00B SHALL HAVE THE SAME OR GREATER AIC AS THE EXISTING BREAKERS.
6. APPROXIMATE COORDINATE OF EDGE OF PAVEMENT. LAYOUT CABLE TRAY IN A STRAIGHT LINE FROM SAEF 2 TO THE COORDINATE AT M7-1061 EXISTING TRENCH. (SEE DETAIL J)

3#500 MCM-3"C
3#500 MCM-3"C
3#8 & 2#10-1½"C

10'-6"(±) ABOVE GRADE

EXISTING BUILDING M7-1061

SECTION (C) NTS

3#500 MCM-3"C
3#500 MCM-3"C
3#8 & 2#10-1½"C

A B C1 C2 C3 C4

NOTE 2
NOTE 3
NOTE 4

10'-6" ABOVE GRADE

SECTION (F) NTS

EXISTING MCC FT-E02-00B

3#500 MCM-3"C
3#500 MCM-3"C
3#8 & 2#10-1½"C

A B C

(F)

DETAIL (D) NTS

TRENCH ELEVATION TO MATCH PAVEMENT

PRE-CAST CONCRETE TRENCH WITH H-20 WHEEL LOAD COVER TRENWA OR EQUAL

PAVEMENT

P-5353 UNISTRUT

19 1/2"

40"

54"

6"

6" STABILIZATIO (3" LIMEROCK MIXED IN 6" DEPTH) SEE SPECS

SECTION (A) NTS

CABLE TRENCH

TO OVERLAND CABLE TRAY

DETAIL (H) NTS

SYM.	ZONE	DESCRIPTION	DATE	APPROVED
		REVISIONS		

SIGNATURES	DATE
DRAWN FELDHAUSER	8-21-85
CHECKED D. MILL...	9-9-85
ENGINEER [illegible]	9-9-85
SUBMITTED [illegible]	9/10/85
APPROVED [illegible]	DATE 10/16/85
TITLE	

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

INDUSTRIAL AREA

ADDITION TO BUILDING M7-1061 FOR PAYLOAD CONTROL ROOMS SITE PLAN & TRAY DETAILS

BRISC BURNS AND ROE INDUSTRIAL SERVICES CORP. 1900 NORTH ATLANTIS AVENUE, SUITE 300 COCOA BEACH, FLORIDA 32931

E-6

SIZE F | DWG. NO. 79K29002 | REV

PROJ. NO. PCN90709 | SHEET 16

KSC FORM 1-11 (REV. 3/76)

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SYM	ZONE	DESCRIPTION	DATE	APPROVED
		REVISIONS		

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3910 S WASHINGTON AVE, SUITE 210, TITUSVILLE, FLORIDA 32780 / (321) 269-2950

SIGNATURES	DATE
DRAWN C. COFFEY	06/10/13
CHECKED K. RIVERA	06/10/13
SUBMITTED J. BELL	06/10/13
ST of LICENSURE: FL LICENSE NO: 69033	06/10/13
APPROVED D. TOTH	6/10/13
J. OTERO	JOA 11/13

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

CLOSE/DEMOLISH FACILITIES AND STRUCTURES, VARIOUS LOCATIONS, PACKAGE 1

BUILDING M7-1061 AS-BUILTS

FILE NO. | SIZE F | DWG. NO. 79K39389 | REV

PROJ. NO. 97963.9 | SHEET 51

D44

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

FILE: \\Vbumd01\prettley\14000 Nasa\212-01_Design-Close-Demo-Var-Face-FY13&14\Contract Drawings\Package 1\Civil\14000212P1-D44.dwg PRINTED: 6/10/2013 2:18 PM, BY USER: Kristian Perez LAST MODIFIED: 4/15/2013 8:23 AM, BY USER: COoffey

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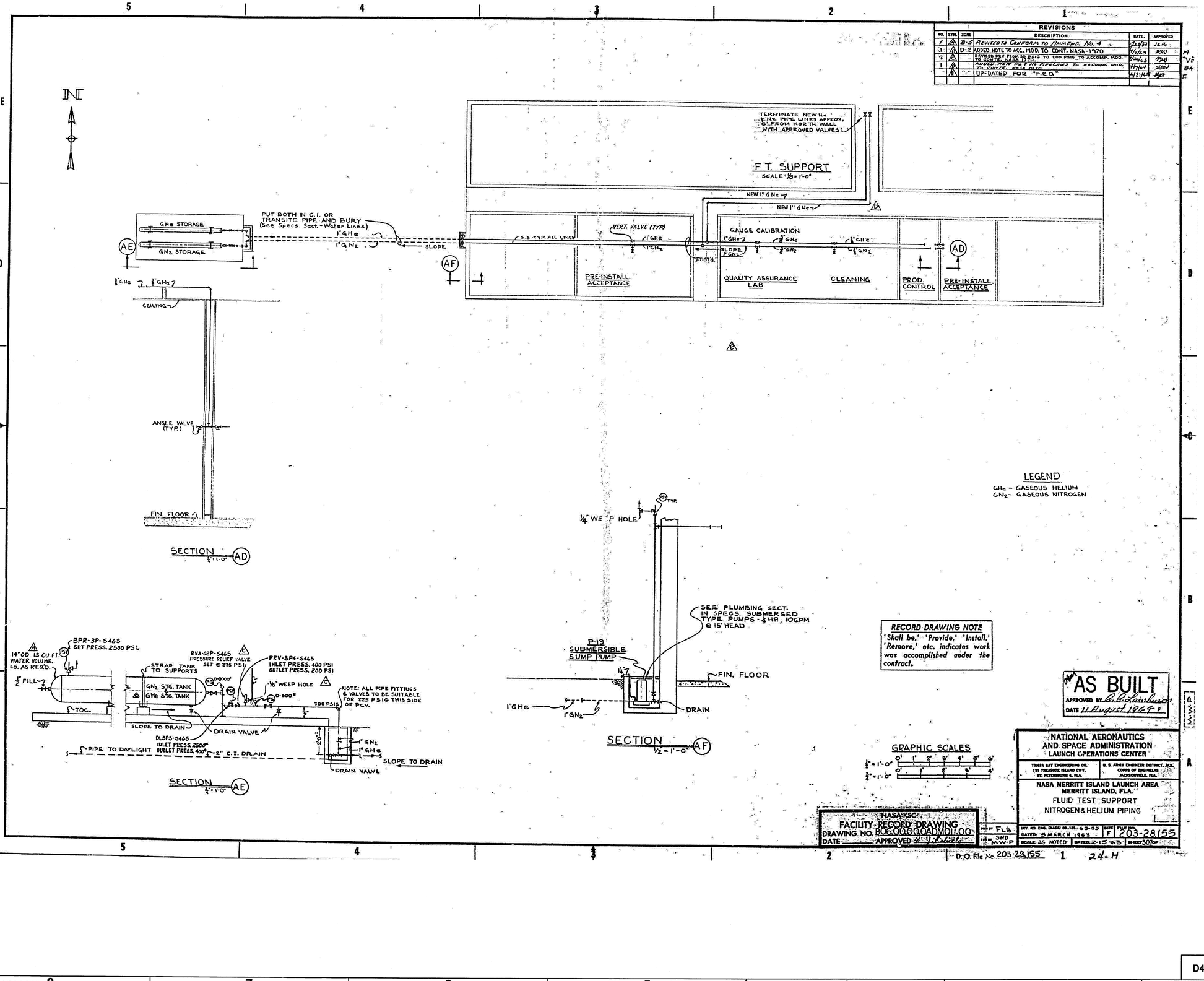
REVISIONS					
NO.	SYM.	ZONE	DESCRIPTION	DATE.	APPROVED
1	3	B-5	REVISED TO CONFORM TO AMEND. No. 4	5/1/63	JCH
3	3	D-2	ADDED NOTE TO ACC. MOD. TO CONT. NAS8-1970	11/16/63	JCH
2	2		REVISED PRV FROM 50 PSIG TO 100 PSIG TO ACCOMP. MOD. TO CONTR. NAS8-1970.	7/24/63	JCH
1	1		ADDED NEW He & N2 PIPELINES TO ACCOMP. MOD. TO CONTR. NAS8-1970	4/17/64	JCH
-	-		UP-DATED FOR "F.R.D."	4/21/64	JCH



RECORD DRAWING NOTE
'Shall be,' 'Provide,' 'Install,' 'Remove,' etc. indicates work was accomplished under the contract.

AS BUILT
APPROVED BY C. R. Lambert
DATE 11 August 1964 F

GRAPHIC SCALES
1/2" = 1'-0"
3/4" = 1'-0"

NASA-KSC
FACILITY RECORD DRAWING
DRAWING NO. B06.000.000ADM01.00
DATE APPROVED 4-21-64

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
LAUNCH OPERATIONS CENTER

TAMPA BAY ENGINEERING CO. 134 TREASURE ISLAND CWY. ST. PETERSBURG 6, FLA.	U.S. ARMY ENGINEER DISTRICT, JAX CORPS OF ENGINEERS JACKSONVILLE, FLA.

NASA MERRITT ISLAND LAUNCH AREA
MERRITT ISLAND, FLA.
FLUID TEST SUPPORT
NITROGEN & HELIUM PIPING

DES. BY FLB
DRN. BY SND
CHK. BY M-W-P
SYS. ENG. DWG(S) 08-123-63-35
DATED: 15 MARCH 1963
SCALE: AS NOTED
DATED: 2-15-63
SIZE F
FILE NO. 203-28155
SHEET 30 OF

D.O. File No. 205-28.155

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SYM	ZONE	DESCRIPTION	DATE	APPROVED

REVISIONS

THIS DRAWING CREATED IN AUTOCAD 2007 FILE FORMAT AND WILL BE REVISED ONLY ON AN AUTOCAD SYSTEM. FILE: 14000212P1-D45.DWG

JONES EDMUNDS
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3910 S WASHINGTON AVE, SUITE 210, TITUSVILLE, FLORIDA 32780 / (321) 269-2950

SIGNATURES	DATE
DRAWN C. COFFEY	06/10/13
CHECKED K. RIVERA	06/10/13
SUBMITTED J. BELL	06/10/13
ST of LICENSURE: FL LICENSE NO: 69033	06/10/13
APPROVED D. TOTH	6/10/13
T. OTERO	13

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

CLOSE/DEMOLISH FACILITIES AND STRUCTURES, VARIOUS LOCATIONS, PACKAGE 1

M7-1061A AS-BUILTS

FILE NO.	SIZE	DWG. NO.	REV
	F	79K39389	
PROJ. NO. 97963.9		SHEET 52	

D45

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

FILE: \\tlsumd01\drafting\14000 Nasa\212-01_Design-Close-Demo-Var-Fcns-FY13&14\Contract Drawings\Package 1\Cvt\14000212P1-D45.dwg PRINTED: 6/10/2013 2:18 PM, BY USER: Kristian Perez LAST MODIFIED: 4/15/2013 8:23 AM, BY USER: CCoffey

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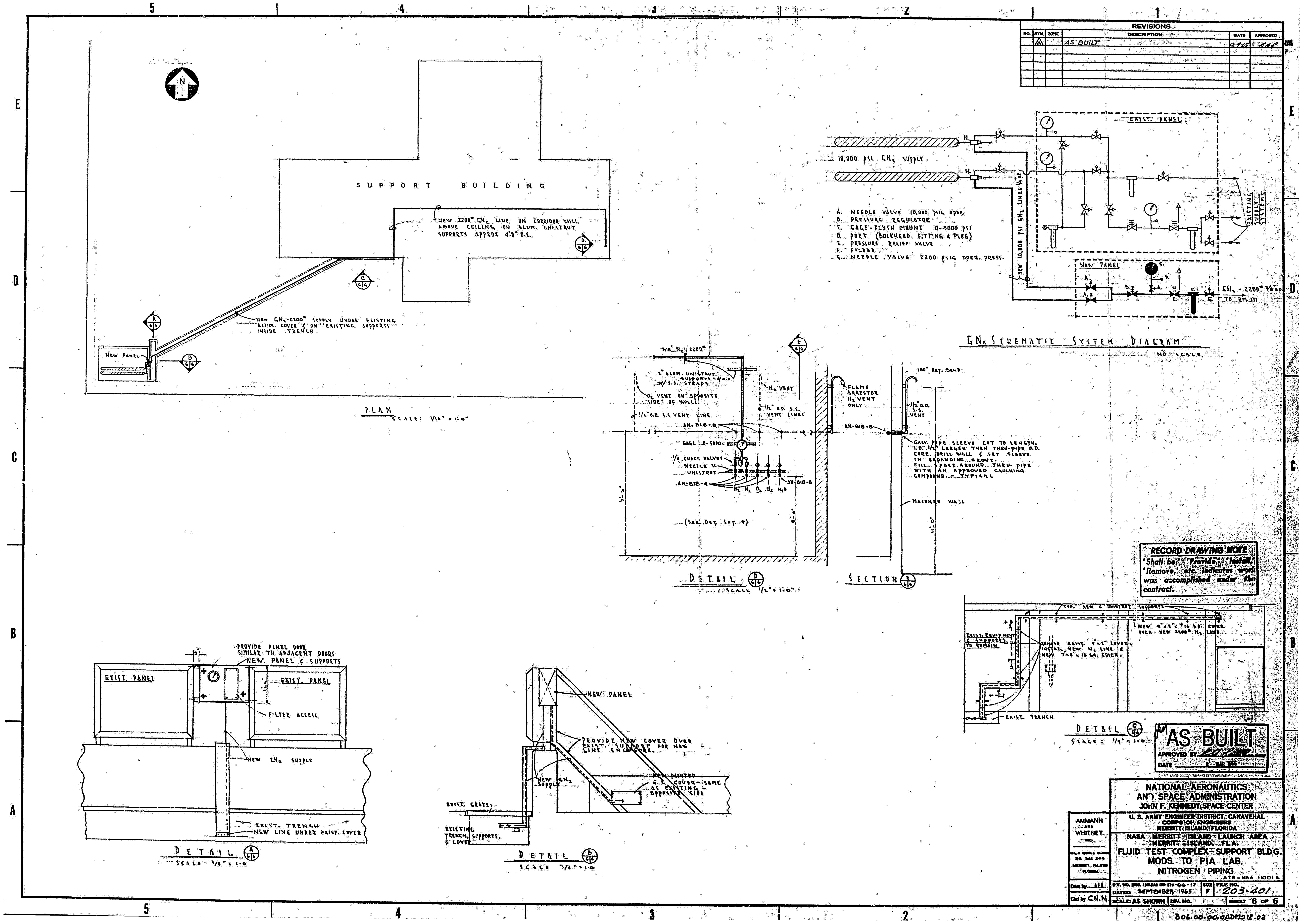

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ST of LICENSURE: FL LICENSE NO: 69033	06/10/13
APPROVED D. TOTH	6/10/13
I. OTERO	JUN 12/13

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CLOSE/DEMOLISH FACILITIES AND STRUCTURES, VARIOUS LOCATIONS, PACKAGE 1

M7-1061A AS-BUILTS

FILE NO.	SIZE	DWG. NO.	REV
	F	79K39389	

PROJ. NO. 97963.9 — SHEET 53

D46

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

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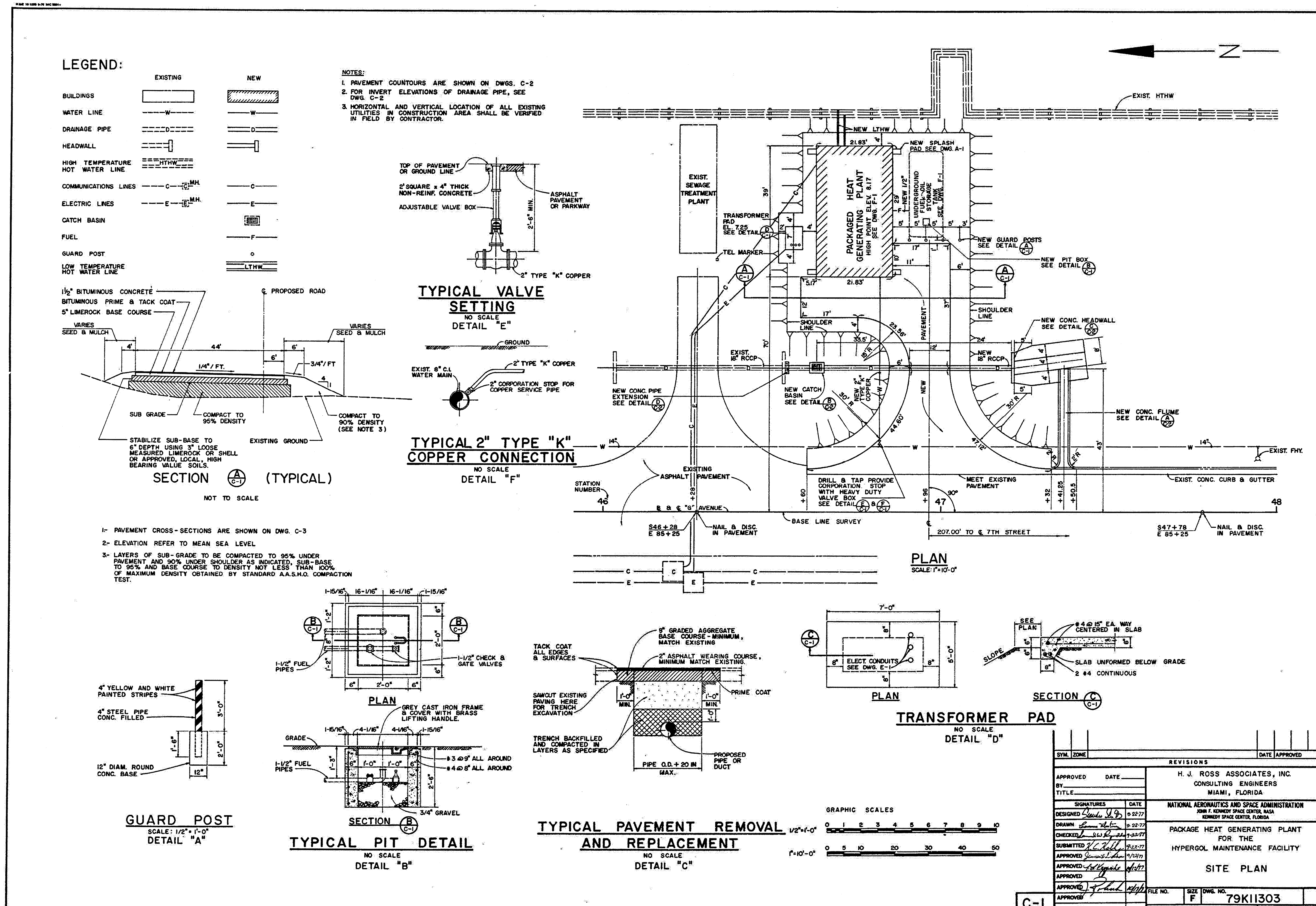
2. THE 15,000 GALLON UNDERGROUND FUEL STORAGE TANK HAS BEEN ABANDONED IN PLACE AND IS TO REMAIN. REFER TO THE "TANK CLOSURE ASSESSMENT REPORT FOR BUILDING NO. M7-1112" DATED AUGUST 1996 FOR ADDITIONAL DETAILS.



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SYM	ZONE	DESCRIPTION	DATE	APPROVED
		REVISIONS		

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SIGNATURES	DATE
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SUBMITTED J. BELL	06/10/13
ST of LICENSURE: FL LICENSE NO: 69033	06/10/13
APPROVED D. TOTH	6/10/13
I. OTERO	2013/12/13

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CLOSE/DEMOLISH FACILITIES AND STRUCTURES, VARIOUS LOCATIONS, PACKAGE 1

BUILDING M7-1112 AS-BUILTS

FILE NO.	SIZE	DWG. NO.	REV
	F	79K39389	

PROJ. NO. 97963.9 — SHEET 54

D47

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

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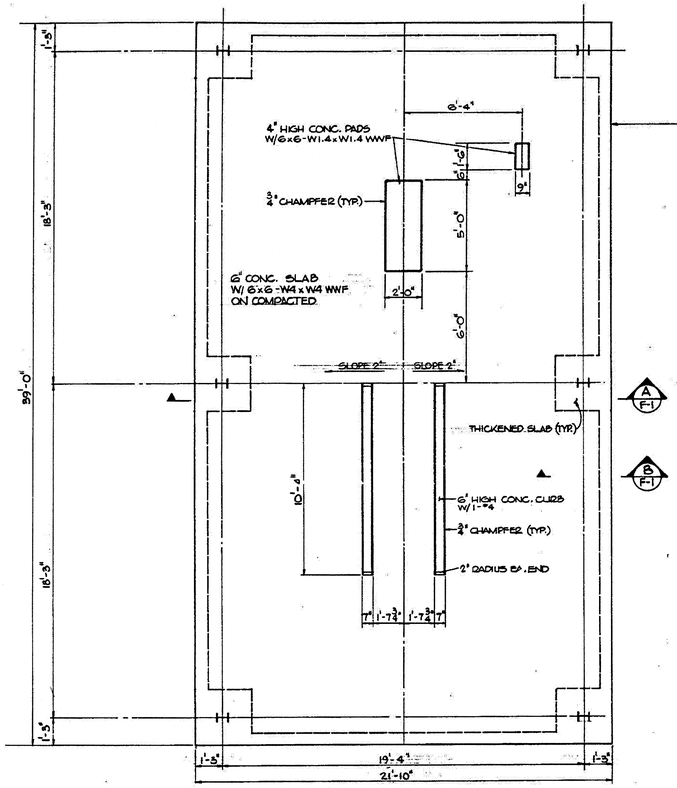
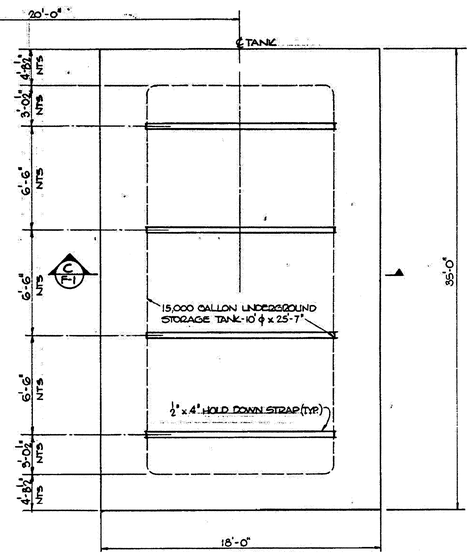
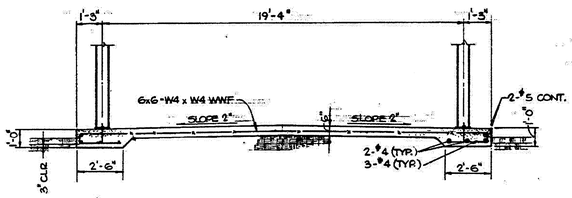


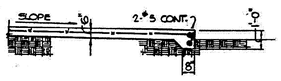
FOUNDATION PLAN
SCALE: 3/8"=1'-0"



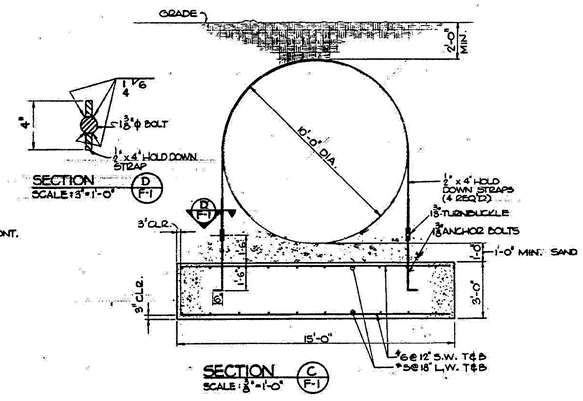
FOUNDATION PLAN
SCALE: 3/8"=1'-0"



SECTION (A/F-1)
SCALE: 3/8"=1'-0"

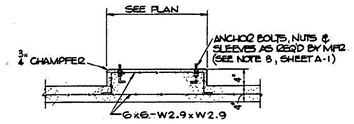


SECTION (B/F-1)
SCALE: 3/8"=1'-0"



SECTION (D/F-1)
SCALE: 3/8"=1'-0"

SECTION (C/F-1)
SCALE: 3/8"=1'-0"



TYPICAL CONCRETE PAD SECTION
NO SCALE

NOTES:
1. FOR GENERAL NOTES SEE DWG. A-1.
2. COORDINATE THIS DWG. WITH MECHANICAL DWG. NO. M-4.
3. CONTRACTOR SHALL MAKE ANY REQUIRED ADJUSTMENTS TO FOUNDATION TO SUIT EQUIPMENT FURNISHED AND SHALL SUBMIT ADJUSTED FOUNDATION DWGS. TO THE CONTRACTING OFFICER FOR APPROVAL PRIOR TO FABRICATION OF ANY MATERIAL.
4. ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI AT 28 DAYS AND DESIGNED IN ACCORDANCE WITH A.C.I. BLDG. CODE A.C.I. 318-71.
5. REINFORCING SHALL BE NEW BILLET STEEL BARS ASTM A-615, GRADE 60.
6. THE BLDG. MFR. SHALL PROVIDE ANCHOR BOLTS AND ANCHOR BOLT TEMPLATES TO THE CONTRACTOR.
7. FUEL TANK HOLD-DOWN STRAPS TO RECEIVE (2) TWO COATS OF BITUMINOUS PAINT.

SYM	ZONE	REVISIONS	DATE	APPROVED

SIGNATURES	DATE
DESIGNED	9/21/77
DRAWN	9/21/77
CHECKED	9/21/77
SUBMITTED	9-21-77
APPROVED	9/21/77
APPROVED	9/21/77
APPROVED	
APPROVED	10/3/77
APPROVED	
APPROVED	

H.J. ROSS ASSOCIATES, INC.
CONSULTING ENGINEERS
MIAMI, FLORIDA

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

PACKAGED HEAT GENERATING PLANT FOR THE HYPERGOL MAINTENANCE FACILITY

FOUNDATION PLANS & SECTIONS

F-1

FILE NO. | SIZE F | DWG. NO. 79K11303

PROJ. NO. PCN 79806 | SHEET 6 OF 20

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SIGNATURES	DATE
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CHECKED K. RIVERA	06/10/13
SUBMITTED J. BELL	06/10/13
ST of LICENSURE: FL LICENSE NO: 69033	06/10/13
APPROVED D. TOTH	6/10/13
I. OTERO	6/10/13

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CLOSE/DEMOLISH FACILITIES AND STRUCTURES, VARIOUS LOCATIONS, PACKAGE 1

BUILDING M7-1112 AS-BUILTS

FILE NO. | SIZE F | DWG. NO. 79K39389 | REV

PROJ. NO. 97963.9 | SHEET 55

D48

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

FILE: \\Hsumd01\drafting\14000 Nasa\212-01_Design-Close-Demo-Var-Fscs-FY13&14\Contract Drawings\Package 1\Cat\14000212P1-D48.dwg PRINTED: 6/10/2013 2:18 PM, BY USER: Kristian Perez LAST MODIFIED: 4/15/2013 8:24 AM, BY USER: Coffey

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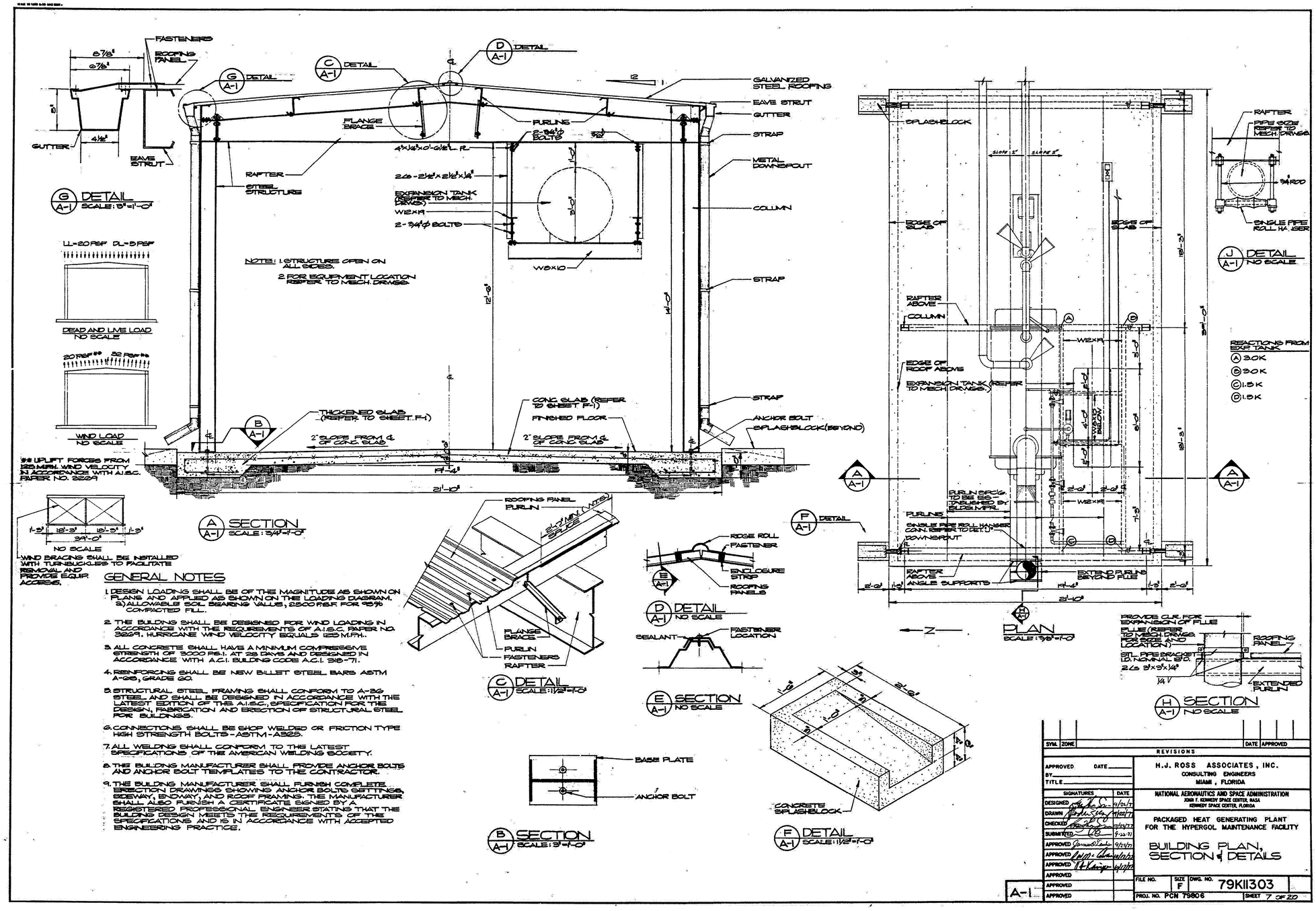

GENERAL NOTES

1. DESIGN LOADING SHALL BE OF THE MAGNITUDE AS SHOWN ON PLANS AND APPLIED AS SHOWN ON THE LOADING DIAGRAM.
   a) ALLOWABLE SOIL BEARING VALUE, 2500 PSF FOR 95% COMPACTED FILL.
2. THE BUILDING SHALL BE DESIGNED FOR WIND LOADING IN ACCORDANCE WITH THE REQUIREMENTS OF A.I.S.C. PAPER NO. 3229, HURRICANE WIND VELOCITY EQUALS 120 M.P.H..
3. ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 P.S.I. AT 28 DAYS AND DESIGNED IN ACCORDANCE WITH A.C.I. BUILDING CODE A.C.I. 318-71.
4. REINFORCING SHALL BE NEW BILLET STEEL BARS ASTM A-615, GRADE 60.
5. STRUCTURAL STEEL FRAMING SHALL CONFORM TO A-36 STEEL AND SHALL BE DESIGNED IN ACCORDANCE WITH THE LATEST EDITION OF THE A.I.S.C., SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS.
6. CONNECTIONS SHALL BE SHOP WELDED OR FRICTION TYPE HIGH STRENGTH BOLTS - ASTM-A325.
7. ALL WELDING SHALL CONFORM TO THE LATEST SPECIFICATIONS OF THE AMERICAN WELDING SOCIETY.
8. THE BUILDING MANUFACTURER SHALL PROVIDE ANCHOR BOLTS AND ANCHOR BOLT TEMPLATES TO THE CONTRACTOR.
9. THE BUILDING MANUFACTURER SHALL FURNISH COMPLETE ERECTION DRAWINGS SHOWING ANCHOR BOLTS SETTINGS, SIDEWAY, ENDWAY, AND ROOF FRAMING. THE MANUFACTURER SHALL ALSO FURNISH A CERTIFICATE SIGNED BY A REGISTERED PROFESSIONAL ENGINEER STATING THAT THE BUILDING DESIGN MEETS THE REQUIREMENTS OF THE SPECIFICATIONS AND IS IN ACCORDANCE WITH ACCEPTED ENGINEERING PRACTICE.

SYM	ZONE	REVISIONS	DATE	APPROVED

APPROVED ____ DATE ____
BY ____
TITLE ____

SIGNATURES	DATE
DESIGNED	9/24/71
DRAWN	9/24/71
CHECKED	9/24/71
SUBMITTED	9-22-71
APPROVED	9/24/71
APPROVED	10/8/71
APPROVED	10/8/71
APPROVED	
APPROVED	

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CONSULTING ENGINEERS
MIAMI, FLORIDA

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PACKAGED HEAT GENERATING PLANT FOR THE HYPERGOL MAINTENANCE FACILITY

BUILDING PLAN, SECTION & DETAILS

FILE NO. | SIZE F | DWG. NO. 79K11303
PROJ. NO. PCN 79806 | SHEET 7 OF 20

A-1

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CLOSE/DEMOLISH FACILITIES AND STRUCTURES, VARIOUS LOCATIONS, PACKAGE 1

BUILDING M7-1112 AS-BUILTS

FILE NO. | SIZE F | DWG. NO. 79K39389 | REV
PROJ. NO. 97963.9 | SHEET 56

D49

FILE: \\titusmd01\drafting\14000 Notes\212-01_Design-Close-Demo-Ver-Fcns-FY13&14\Contract Drawings\Package 1\Cvt\14000212P1-D49.dwg PRINTED: 6/10/2013 2:19 PM, BY USER: Kristian Perez LAST MODIFIED: 4/15/2013 8:24 AM, BY USER: CCoffey

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WATER PUMP SCHEDULE

UNIT DESIGNATION	H.W.P.-1
LOCATION	BOILER SHED
OPERATING WEIGHT, LBS	700
PUMP SERVICE	HOT WATER SYSTEM
PUMP TYPE	FRAME MOUNTED END SUCTION
WATER FLOW, GPM	171
TOTAL DYNAMIC HEAD, FT. OF H_2O	168
DESIGN EFFICIENCY	73%
SHUT OFF HEAD, FT. OF H_2O	180
CUT OFF CAPACITY	320 @ 118 FT
MAXIMUM PUMP SPEED, RPM	3500
APPROX. PRESSURE AT PUMP DISCHARGE	69 PSI
PUMP ASSEMBLY	NON OVERLOADING IMPELLER CHARACTERISTIC
MOTOR SIZE, HP NOM./BHP DESIGN	15/21
TOTAL UNIT AMPS., F.L.	—
ELECTRICAL SERVICE AVAILABLE	480/3/60
PUMP MOTOR TYPE	* T.E.F.C.
BASE	STEEL
COUPLING GUARD	YES
SHAFT SEAL	MECHANICAL
SUCTION AND DISCHARGE GAGE TAPPING	YES
FITTINGS	BRONZE

* TOTALLY ENCLOSED, FAN COOLED

PACKAGED BOILER SCHEDULE

USE	HOT WATER
LOCATION	BOILER SHED
OPERATING WEIGHT, LBS.	11,500
SERVICE	HEATING SYSTEM
PRESSURE, PSIG DESIGN/WORKING	ATMOSPHERIC
MIN. WATER SIDE HEATING SURFACE, SQ. FT.	—
TOTAL CAPACITY: GROSS OUTPUT, MBH	4,184
TYPE OF FUEL	#2 OIL
CONTROL FIRING	MODULATING
MAXIMUM POWER REQUIREMENTS	*SEE BELOW
ELECTRICAL SERVICE AVAILABLE	480/3/60 : 120/1/60
SPECIAL TRIM REQUIRED	LOW WATER CUT OFF
BLOWER MOTOR	*5 H.P.

NOTE:
1. BOILER SHALL BE CAPABLE TO OPERATE WITH #6 OIL IN THE FUTURE REFER TO SPECIFICATIONS

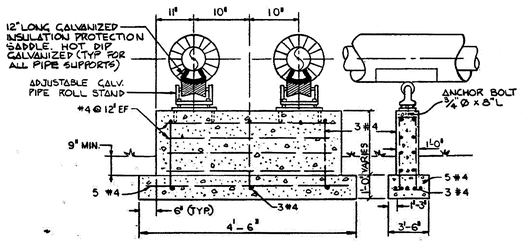
HYDRONIC SPECIALTY SCHEDULE

UNIT DESIGNATION	H.W.T.-1
SYSTEM	HOT WATER HEATING
SERVICE	EXPANSION TANK
TANK LOCATION	ABOVE BOILER
ASME COMPR. TANK-CAPACITY GALS.	390
APPROX. DIM. INS. DIAM. X LENGTH	36 X 96
MAX. WGT. LBS.	880
TANK FITTINGS	ATFL-1"
STRAINER-AIR SEPARATOR	R-4
PRESS. RELIEF & REDUCING VALVE-DUAL	D-250
PRESS. RELIEF VALVE SETTING, PSIG	75

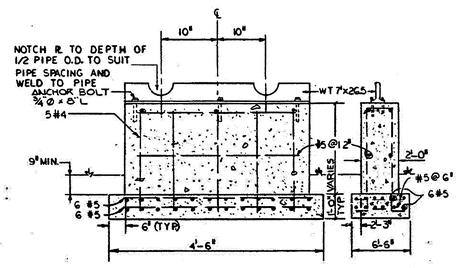
FUEL OIL PUMP SCHEDULE

	UNIT DESIGNATION	FOP-1
	LOCATION	BOILER SHED
	OPERATING WEIGHT, LBS	80
	PUMP SERVICE	HEATING SYSTEM
	PUMP TYPE (POSITIVE DISPLACEMENT)	VARIABLE CAPACITY GEAR TYPE V-BELT DRIVE
	PUMP PIPE TAP SIZE	1"
	MOTOR H.P.	½
	ELECTRICAL CHARACTERISTICS	120/1/60
	DELIVERY, GPH	#2 OIL: 138/#6 OIL: 174
	PUMP RPM	1450
	PUMP OPER. DISCH. PRESS. (PSIG)	100
	PUMP SUCTION, MAX. INS. OF Hg	12
	PUMP MOTOR TYPE	* T.E.F.C.
AUXILIARIES	SUCTION STRAINER	YES
AUXILIARIES	MAGNETIC STARTER	YES
AUXILIARIES	H.O. AUTO. SWITCH	YES

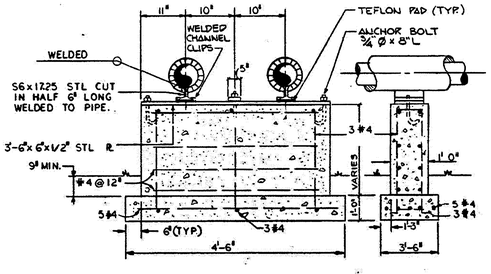
* TOTALLY ENCLOSED, FAN COOLED



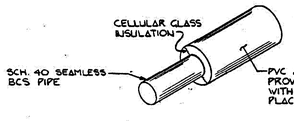
PIPE SUPPORT TYPE "X"
NOT TO SCALE



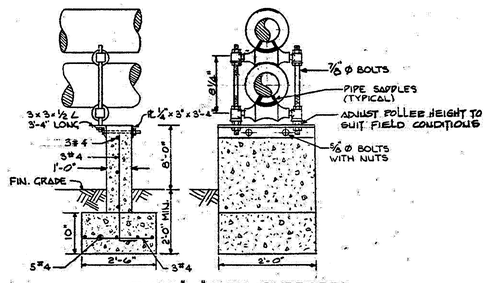
LINE ANCHOR TYPE "Y"
NOT TO SCALE



PIPE SUPPORT TYPE "Z"
NOT TO SCALE



TYPICAL ABOVE GROUND PIPING SYSTEM
NOT TO SCALE



TYPE "W" PIPE SUPPORTS
NOT TO SCALE

NOTES:
1. ALL ANCHOR BOLTS 3/4" DIA. x 8" LONG
2. SEE SHEET M-5 FOR SUPPORT AND ANCHOR LOCATION & HEIGHTS

SYM	ZONE	REVISIONS	DATE	APPROVED

APPROVED DATE
BY
TITLE

SIGNATURES	DATE
DESIGNED	9/22/77
DRAWN	9/22/77
CHECKED	9/22/77
SUBMITTED	9-22-77
APPROVED	9/22/77
APPROVED	10-6-77
APPROVED	10-17-77
APPROVED	10/27/77
APPROVED	
APPROVED	

H. J. ROSS ASSOCIATES, INC.
CONSULTING ENGINEERS
MIAMI, FLORIDA

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

PACKAGED HEAT GENERATING PLANT FOR THE HYPERGOLIC MAINTENANCE FACILITY
EQUIPMENT SCHEDULES & DETAILS

FILE NO. | SIZE F | DWG. NO. 79K11303
PROJ. NO: PCN 79806 | SHEET 8 OF 20

M-1

THIS SPACE RESERVED

SYM	ZONE	DESCRIPTION	DATE	APPROVED
		REVISIONS		

THIS DRAWING CREATED IN AUTOCAD 2007 FILE FORMAT AND WILL BE REVISED ONLY ON AN AUTOCAD SYSTEM. FILE: 14000212P1-D50.DWG

JONES EDMUNDS
730 NE WALDO ROAD, GAINESVILLE, FLORIDA 32641 / (352) 377-5821
3910 S WASHINGTON AVE, SUITE 210, TITUSVILLE, FLORIDA 32780 / (321) 269-2950

SIGNATURES	DATE
DRAWN C. COFFEY	06/10/13
CHECKED K. RIVERA	06/10/13
SUBMITTED J. BELL	06/10/13
ST of LICENSURE: FL LICENSE NO: 69033	06/10/13
APPROVED D. TOSH	6/10/13
I. OTERO	12/9/13

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
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KENNEDY SPACE CENTER, FLORIDA

CLOSE/DEMOLISH FACILITIES AND STRUCTURES, VARIOUS LOCATIONS, PACKAGE 1

BUILDING M7-1112 AS-BUILTS

FILE NO. | SIZE F | DWG. NO. 79K39389 | REV
PROJ. NO. 97963.9 | SHEET 57

D50

FILE: \\titusmd01\drafting\14000 Nasa\212-01_Design-Close-Demo-Vac-Faca-FY13&14\Contract Drawings\Package 1\Cad\14000212P1-D50.dwg PRINTED: 6/10/2013 2:19 PM, BY USER: Kristian Perez LAST MODIFIED: 4/15/2013 8:24 AM, BY USER: CCoffey

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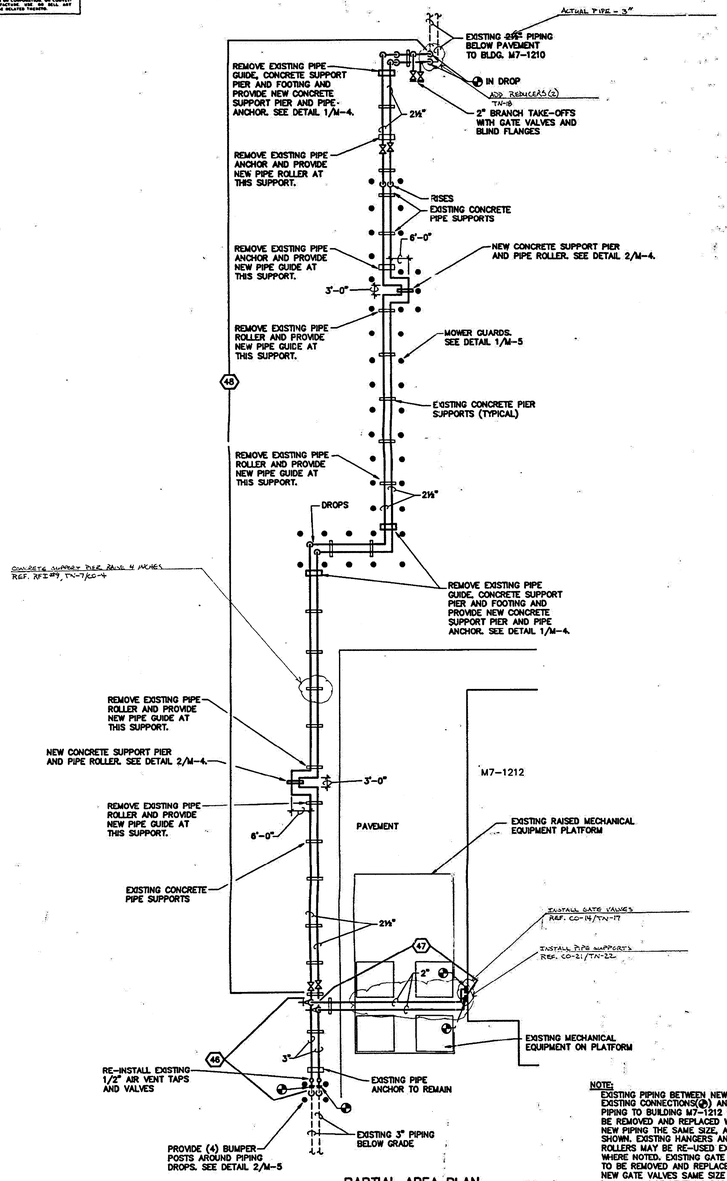
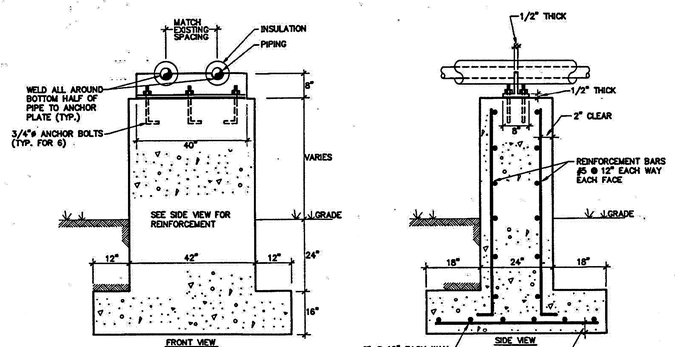
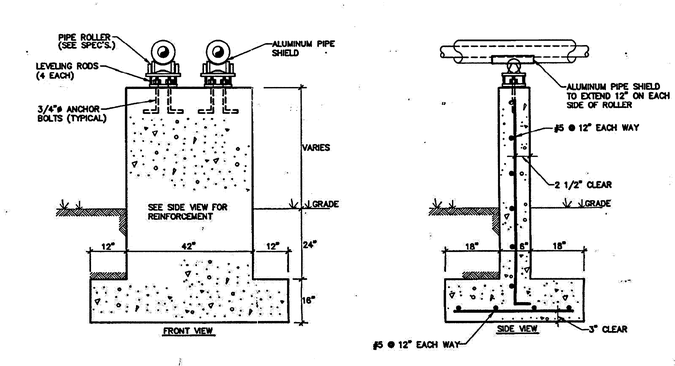


PARTIAL AREA PLAN
SCALE: 1/16" = 1' - 0"



NEW PIPE ANCHOR AND CONCRETE SUPPORT PIER DETAIL (1 / M-4)
SCALE: 3/4" = 1' - 0"



NEW CONCRETE SUPPORT PIER DETAIL FOR ROLLER OR GUIDE (2 / M-4)
SCALE: 3/4" = 1' - 0"

NOTE:
EXISTING PIPING BETWEEN NEW TO EXISTING CONNECTIONS(ⓟ) AND PIPING TO BUILDING M7-1212 TO BE REMOVED AND REPLACED WITH NEW PIPING THE SAME SIZE, AS SHOWN. EXISTING HANGERS AND ROLLERS MAY BE RE-USED EXCEPT WHERE NOTED. EXISTING GATE VALVES TO BE REMOVED AND REPLACED WITH NEW GATE VALVES SAME SIZE AND LOCATION. USE LEVELING RODS ON ROLLERS AND/OR SHIMS TO PROVIDE A LEVEL PIPING SYSTEM.

SYM.	ZONE	DESCRIPTION	DATE	APPROVED
A		RECORD DRAWING FOR CONTRACT NAS10- 11919	7/10/94	R. C. PINE A. SZUCS

REVISIONS

SIGNATURES	DATE
DRAWN T. FEAGANS	
CHECKED T. FEAGANS	
ENGINEER KNOEDLER	
SUBMITTED W. Walker	9/18/91
APPROVED Stephen Bell	9/13/91
TITLE	

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

INDUSTRIAL AREA
REFURBISH HTHW & LTHW DISTRIBUTION PIPING
PARTIAL AREA PLAN & DETAILS

SIZE	DWG. NO.	REV
F	79K33388	A
PROJ NO. PCN 94C81	SHEET 6 OF 7	

Ralph Hahn and Associates, Inc.
CONSULTING AND DESIGN ENGINEERS
933 north courtenay parkway—suite 720 (32954-2048)
post office box 540665 (32954-0665) (407)453-2000

M-4

THIS SPACE RESERVED

SYM	ZONE	DESCRIPTION	DATE	APPROVED

REVISIONS

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3910 S WASHINGTON AVE, SUITE 210, TITUSVILLE, FLORIDA 32780 / (321) 269-2950

SIGNATURES	DATE
DRAWN C. COFFEY	06/10/13
CHECKED K. RIVERA	06/10/13
SUBMITTED J. ECKE	06/10/13
SI of LICENSURE: FL LICENSE NO: 69033	06/10/13
APPROVED D. TOTH	6/14/13
J. OTERO	6/13/13

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JOHN F. KENNEDY SPACE CENTER, NASA
KENNEDY SPACE CENTER, FLORIDA

CLOSE/DEMOLISH FACILITIES AND STRUCTURES, VARIOUS LOCATIONS, PACKAGE 1

BUILDING M7-1112 AS-BUILTS

FILE NO.	SIZE	DWG. NO.	REV
	F	79K39389	
PROJ. NO. 97963.9		SHEET 58	

D51

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

FILE: \\Vitumdc01\Letitley\14000 Nasa\212-01_Design-Close-Demo-Var-Facs-FY13&14\Contract Drawings\Package 1\Cad\14000212P1-D51.dwg PRINTED: 6/10/2013 2:19 PM, BY USER: Kristian Perez LAST MODIFIED: 4/15/2013 8:24 AM, BY USER: CCoffey

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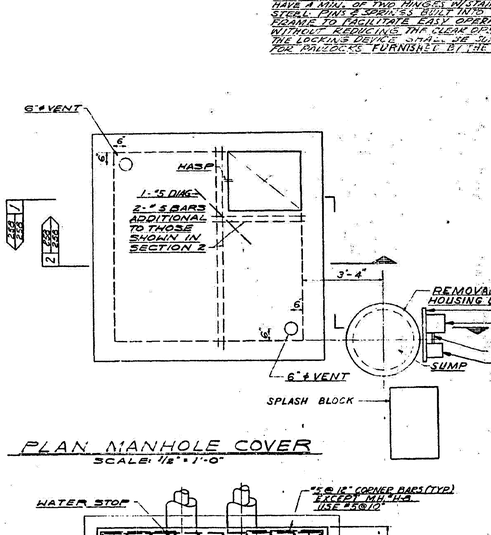
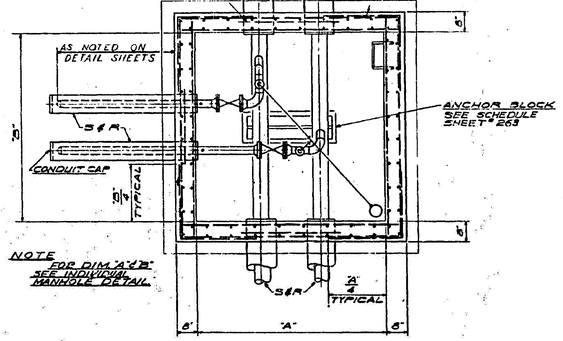
NOTE:
2'-6"x3'-1" M.H. COVER SHALL BE 1"THK'D W & REINF. FOR 300# LIVE LOAD. FRAME OF STRUCTRAL STEEL ANGLES 1/4"x1 1/2" L. REINF. & ANCHERS FOR COVER & FRAME SHALL HAVE A MIN. OF TWO TRUSSED WITHOUTS STEEL PINS & SPRING BUILT INTO THE FRAME TO FACILITATE EASY OPERATION WITHOUT REMOVING THE LIGHT OPENING. THE LOCKING DEVICE SHALL BE SUITABLE FOR PADLOCKS "FURNISHED BY THE GOV'T."

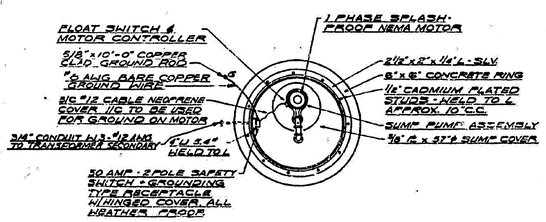


PLAN MANHOLE COVER
SCALE: 1/2" = 1'-0"

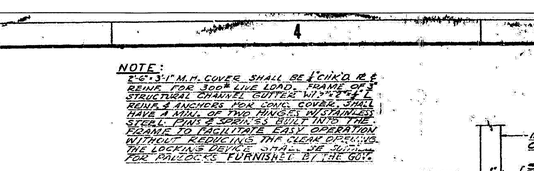


NOTE
FOR DIM. "A" SEE INDIVIDUAL MANHOLE DETAIL

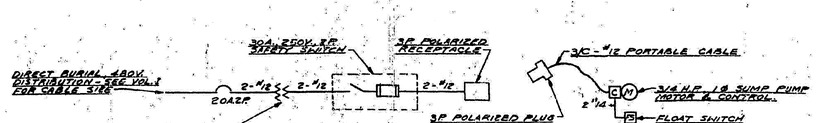
PLAN BELOW MANHOLE COVER
SCALE: 1/2" = 1'-0"



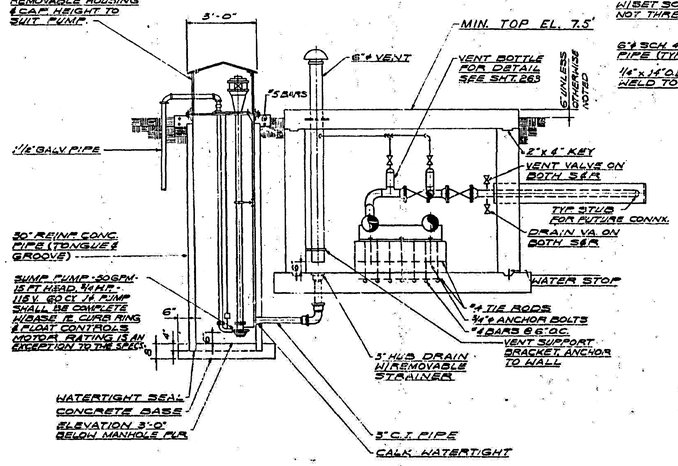
PLAN BELOW SUMP HOUSING
SCALE: 3/4" = 1'-0"



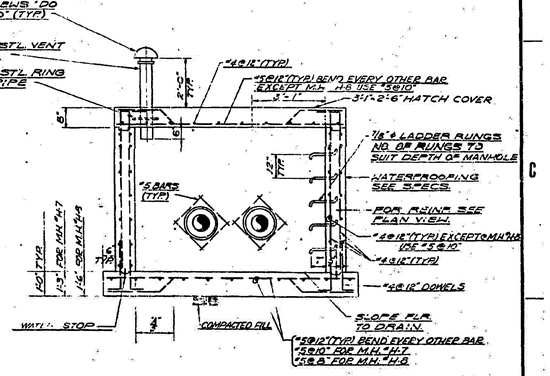
TYPICAL SECTION
CONDUIT ENTERING M.H.
SCALE: 1/2" = 1'-0"



TYPICAL HEATING MANHOLE WIRING DIAGRAM



SECTION 7
SCALE: 1/2" = 1'-0"



SECTION 2
SCALE: 1/2" = 1'-0"

AS BUILT
APPROVED BY: [signature]
DATE: 9/3/65

GENERAL NOTES

1. ALL H.T.W. PIPING INCL. VALVES & SYSTEM BY-PASSES ARE TO BE INSULATED.
2. VENTS & DRAINS FROM H.T.W. LINES SHALL BE INSULATED UP TO THEIR RESPECTIVE VALVES.
3. ALL GATE VALVE STEMS SHALL BE VERTICAL UNLESS OTHERWISE NOTED.

RECORD DRAWING NOTE
'Shall be,' 'Provide,' 'Install,' 'Remove,' etc. indicates work was accomplished under the contract.

GRAPHIC SCALE
1/2"=1'-0" 0 1' 2' 3' 4' 5' 10'
3/4"=1'-0" 0 1' 2' 3' 4' 5'

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
LAUNCH OPERATIONS CENTER

SMITH AND GILLESPIE, & ADAMS ASSOCIATES, INC. ENGINEERS, JACKSONVILLE, FLORIDA — CLEVELAND, OHIO
U.S. ARMY ENGINEER DISTRICT, JAX. CORPS OF ENGINEERS JACKSONVILLE, FLA.

NASA MERRITT ISLAND LAUNCH AREA
MERRITT ISLAND, FLA.
M.I.L.A. UTILITIES DEVELOPMENT
HEAT DISTRIBUTION
TYPICAL MANHOLE DETAIL

SPEC. NO. ENG. (NASA) 68-122-63 29 | SIZE F | FILE NO. 00203-28, 094
DATED 1/21/63 | SCALE AS NOTED | SAVED JAN. 1963 | SHEET 258 OF
Drawn by VC | Ck'd by WDN

H02.00.00-0A0014.00

REVISIONS

NO.	SYM.	ZONE	DESCRIPTION	DATE	APPROVED
	A		REVISED FOR F.R.D. INDEX.	2/11/67	JEC

NOTE:
PROVIDED REMOVAL PANEL & DRAIN PIPE. REROUTED DRAIN LINE DUE TO INACCESIBILITY. SPLASH BLOCK AT LOWER ELEV. DUE TO SLOPE OF BANK.

THIS SPACE RESERVED

SYM	ZONE	DESCRIPTION	DATE	APPROVED

REVISIONS

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3910 S WASHINGTON AVE, SUITE 210, TITUSVILLE, FLORIDA 32780 / (321) 269-2950

SIGNATURES	DATE
DRAWN C. COFFEY	06/10/13
CHECKED K. RIVERA	06/10/13
SUBMITTED J. BELL	06/10/13
ST of LICENSURE: FL LICENSE NO: 69033	06/10/13
APPROVED D. TOTH	6/10/13
I. OTERO	6/10/13

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
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CLOSE/DEMOLISH FACILITIES AND STRUCTURES, VARIOUS LOCATIONS, PACKAGE 1

BUILDING M7-1112 AS-BUILTS

FILE NO.	SIZE	DWG. NO.	REV
	F	79K39389	

PROJ. NO. 97963.9 | SHEET 59

D52

FILE: \\Husmdir\dfs\fileg\14000 Nasa\212-01_Design-Close-Demo-Var-Facs-FY13&14\Control Drawings\Package 1\Cad\14000212P1-D52.dwg PRINTED: 6/10/2013 2:19 PM, BY USER: Kristian Perez LAST MODIFIED: 4/15/2013 8:24 AM, BY USER: CCoffey

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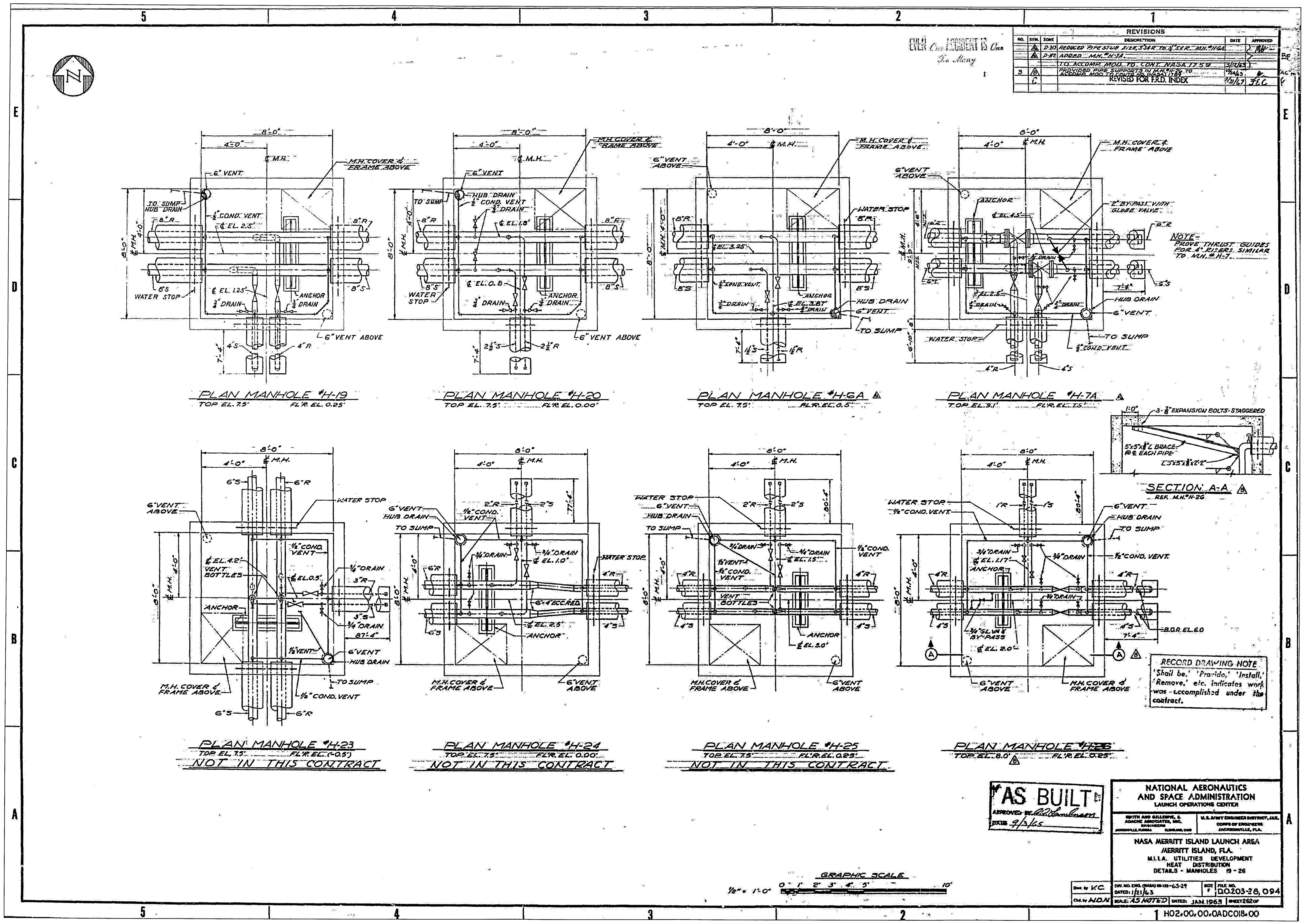

THIS SPACE RESERVED

SYM	ZONE	DESCRIPTION	DATE	APPROVED
		REVISIONS		

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JONES EDMUNDS

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3910 S WASHINGTON AVE, SUITE 210, TITUSVILLE, FLORIDA 32780 / (321) 269-2950

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JOHN F. KENNEDY SPACE CENTER, NASA
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CLOSE/DEMOLISH FACILITIES AND STRUCTURES, VARIOUS LOCATIONS, PACKAGE 1

BUILDING M7-1112 AS-BUILTS

FILE NO.	SIZE	DWG. NO.	REV
	F	79K39389	

PROJ. NO. 97963.9 SHEET 60

D53

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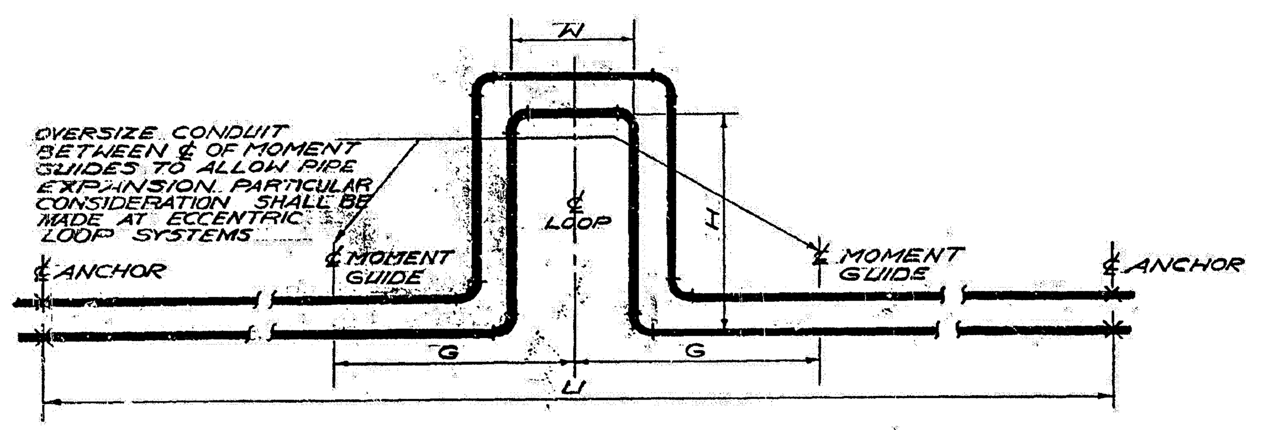
REVISIONS

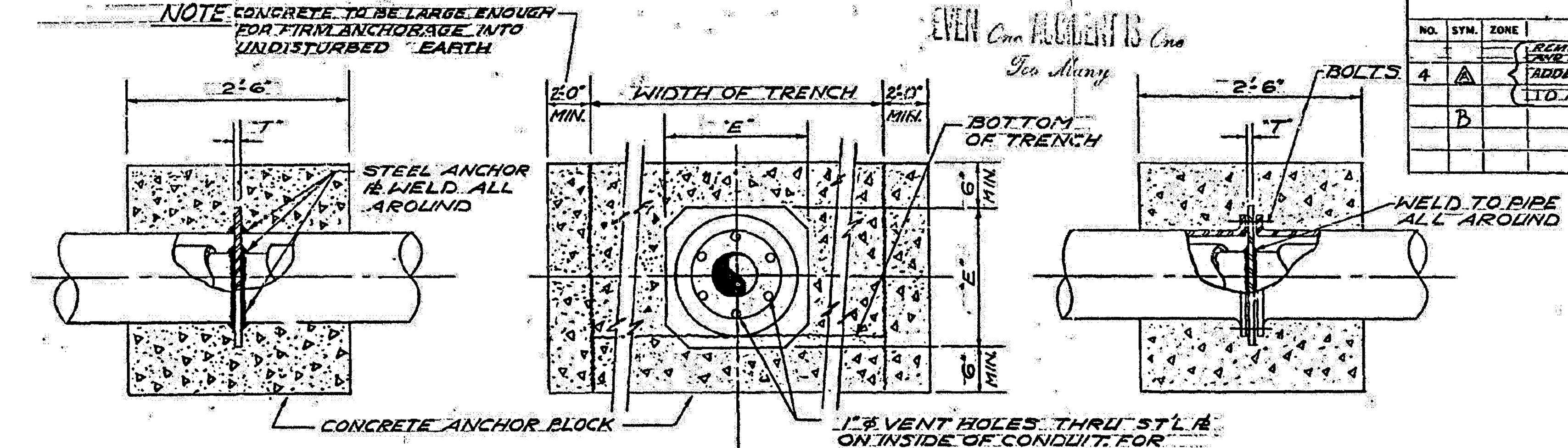
NO.	SYM.	ZONE	DESCRIPTION	DATE	APPROVED
4	A		REMOVED VENT HANDHOLES No. 3 & 4, DRAIN PIT No. 3 AND ADDED DRAIN PITS No. 5 & 6. ADDED EXPANSION LOOP # 45. TO ACCOMP. MOD. TO CONT. NASA 17.5.9	3/12/63	
	B		REVISED FOR F.R.D. INDEX	3/31/67	FEC



NOTE: ALL LOOPS TO BE COLD SPRUNG 50% OF TOTAL EXPANSION.

LOOP SCHEDULE

LOOP No.	S&R	U	H	W	G	TOTAL EXPANSION	LOOP No.	S&R	U	H	W	G	TOTAL EXPANSION
1	8"	300'	28'	14'	27'	7.92"	27	4"	150'	13'	5'	12'	3.96"
2	8"	275'	27'	13'	25'	7.26"	28	3"	300'	16'	8'	15'	7.92"
2-A	8"	275'	27'	13'	27'	7.26"	29	3"	280'	16'	8'	15'	7.39"
3	8"	267'-6"	27'	13'	25'	7.07"	30	3"	275'	15'	8'	14'	7.26"
4	8"	260'	27'	13'	25'	6.86"	31	3"	255'	15'	8'	14'	6.73"
5	8"	250'	24'	11'	23'	6.60"	32	3"	250'	14'	7'	13'	6.60"
6	8"	200'	21'	10'	20'	5.28"	33	3"	240'	14'	7'	13'	6.34"
6-A	8"	200'	21'	10'	22'	5.28"	34	3"	200'	14'	5'	13'	5.28"
7	8"	180'	21'	10'	20'	4.75"	35	3"	150'	11'	5'	10'	3.96"
8	8"	175'	20'	8'	19'	4.62"	36	2½"	175'	11'	5'	10'	4.62"
9	8"	150'	17'	8'	16'	3.96"	37	2½"	160'	11'	5'	10'	4.22"
10	8"	138'	17'	8'	16'	3.64"	38	2"	300'	11'	6'	12'	7.92"
11	6"	300'	24'	12'	23'	7.92"	39	2"	170'	10'	5'	10'	4.49"
12	6"	275'	23'	11'	22'	7.26"	40	1½"	300'	11'	6'	12'	7.92"
12-A	6"	275'	27'	21'	27'	7.26"	41	1½"	295'	11'	6'	12'	7.79"
13	6"	250'	22'	10'	21'	6.60"	42	1½"	278'	11'	6'	12'	7.34"
14	6"	240'	22'	10'	21'	6.34"	43	1¼"	250'	11'	5'	11'	6.60"
15	6"	225'	20'	10'	19'	5.94"	44	1¼"	175'	10'	5'	10'	4.62"
16	6"	220'	20'	10'	19'	5.81"	45	8"	150'	17'	8'	16'	3.96" (A)
17	6"	200'	21'	18'	22'	5.28"							
18	6"	160'	17'	8'	16'	4.22"							
19	4"	300'	19'	9'	18'	7.92"							
20	4"	290'	19'	9'	18'	7.66"							
21	4"	275'	18'	8'	17'	7.26"							
22	4"	250'	17'	8'	16'	6.60"							
23	4"	230'	17'	8'	16'	6.07"							
24	4"	225'	16'	8'	15'	5.94"							
25	4"	200'	15'	8'	14'	5.28"							
26	4"	175'	14'	6'	13'	4.62"							

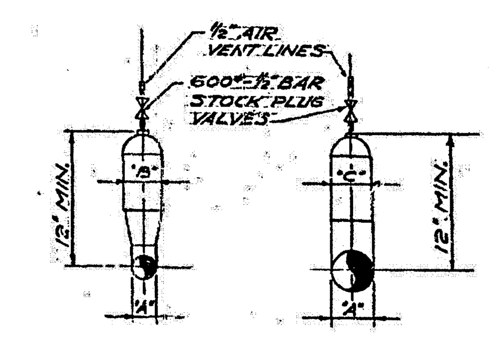


EVEN One ACCIDENT IS One Too Many

ANCHOR PLATE SIZE SCHEDULE

CONDUIT SIZE	12"	15"	18"
DIMENSION "T"	½"	½"	½"
DIMENSION "E"	24"	26"	28"
NUMBER OF HOLES	6	8	10

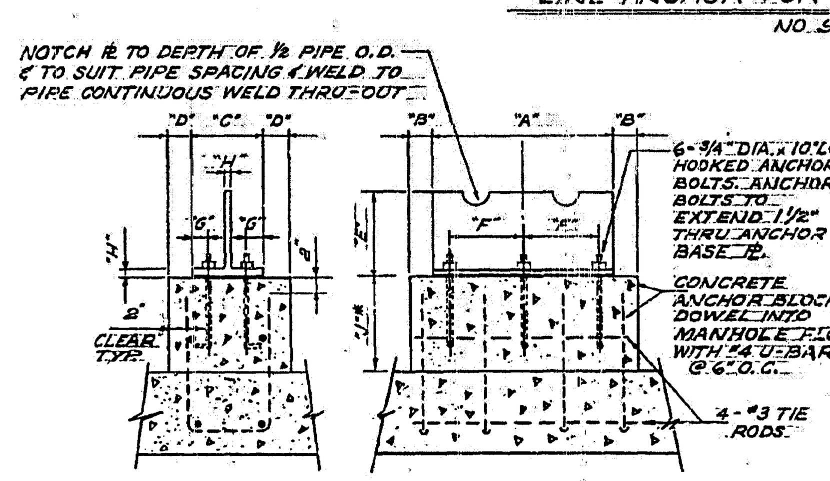
LINE ANCHOR FOR UNIT TYPE "A" CONDUIT
NO SCALE



SIZE SCHEDULE

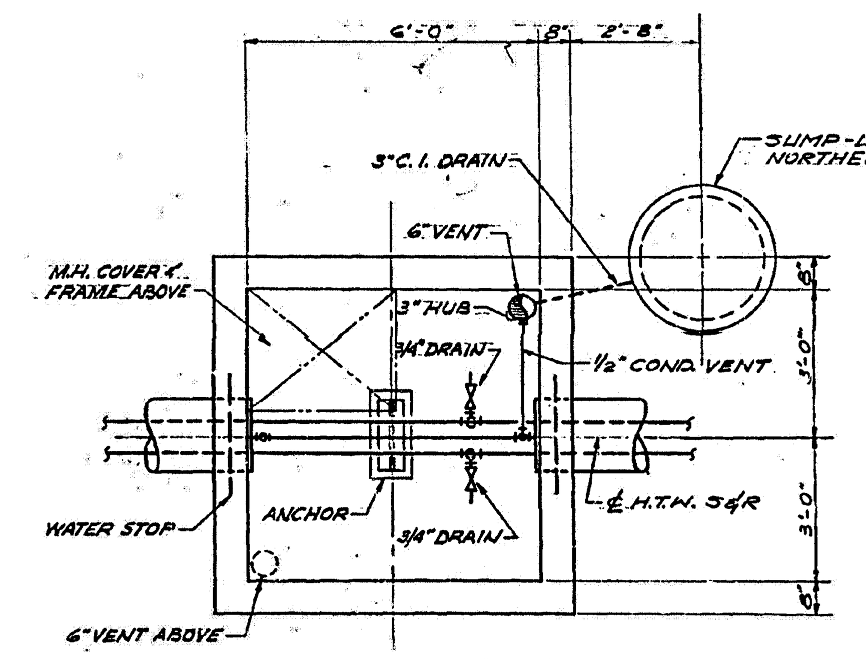
PIPE SIZE "A"	1¼"	1½"	2"	2½"	3"	4"	6"	8"
"B"	2"	2"	3"	3"	—	—	—	—
"C"	—	—	—	—	3"	4"	4"	6"

VENT BOTTLE DETAILS
NO SCALE



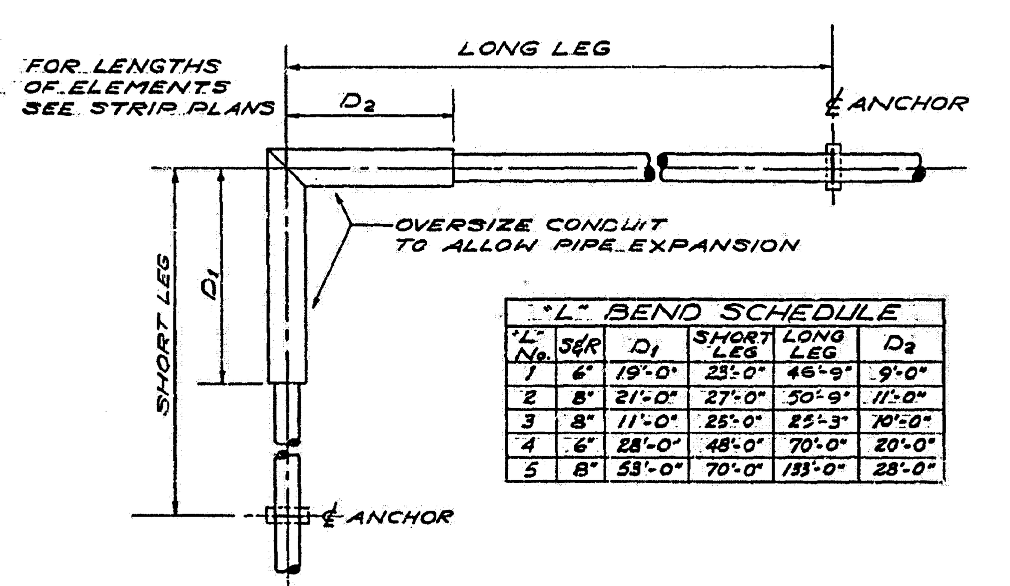
MANHOLE ANCHOR SCHEDULE

PIPE SIZE	DIMENSIONS "A"	"B"	"C"	"D"	"E"	"F"	"G"	"H"	"J"*
8"	4'-3"	2"	7"	2"	12"	1'-10"	7½"	¾"	*TO SUIT MANHOLE FLOOR ELEVATION
6"	3'-10"	2"	7"	2"	9"	1'-8½"	7½"	¾"	
4"	3'-0"	2"	7"	2"	9"	1'-4"	7½"	5/8"	
3"	1'-6"	2"	6"	2"	9"	7½"	1¼"	½"	
2½"	1'-6"	2"	6"	2"	9"	7½"	1¼"	½"	
2"	1'-3"	2"	6"	2"	7"	6"	1¼"	½"	
1½"	1'-0"	2"	6"	2"	7"	4½"	1¼"	3/8"	
1¼"	1'-0"	2"	6"	2"	7"	4½"	1¼"	3/8"	



DRAIN PIT DETAIL
PLAN
TYPICAL - NO SCALE

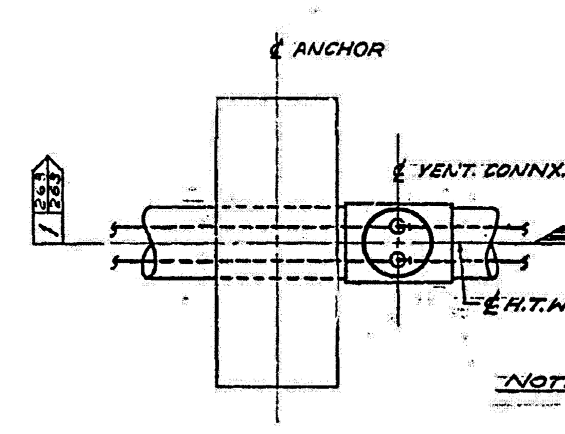
DRAIN PIT NO.	TOP EL.	FL'R. EL.	S&R SIZE	℄ EL.
1	9.25'	1.75'	1½"	3.0'
2	8.5'	1.25'	8"	2.5'
3	8.25'	1.0'	4"	2.0'
4	7.5'	0.25'	3"	1.5'
5	9.8'	1.80'	8"	3.0'
6	7.5'	1.0'	8"	0.25'

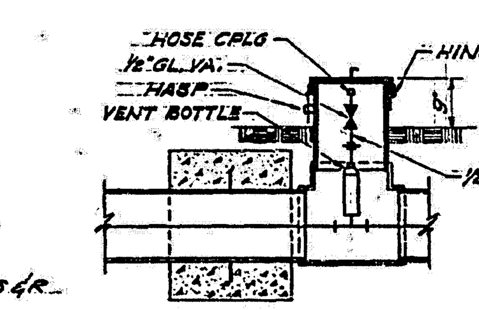


"L" BEND SCHEDULE

"L" No.	S&R	D_1	SHORT LEG	LONG LEG	D_2
1	6"	19'-0"	23'-0"	46'-9"	9'-0"
2	8"	21'-0"	27'-0"	50'-9"	11'-0"
3	8"	11'-0"	25'-0"	25'-3"	10'-0"
4	6"	28'-0"	48'-0"	70'-0"	20'-0"
5	8"	53'-0"	70'-0"	133'-0"	28'-0"

TYPICAL "L" BENDS
NO SCALE





NOTE: SINGLE-PIPE CONDUIT SIMILAR; USE ONE HANDHOLE FOR EACH SEPARATE CONDUIT.

PLAN SECTION

VENT HANDHOLE DETAIL
TYPICAL - NO SCALE

VENT HANDHOLE SCHEDULE

No.	S&R	℄ EL.
1	6"	7.0'
2	1½"	4.0'
3	8"	5.25'
4	4"	7.0'
5	3"	6.0'
6	8"	5.25'
7	8"	3.75'
8	8"	3.75'

AS BUILT
APPROVED BY [signature]
DATE 9/3/65

RECORD DRAWING NOTE
"Shall be," "Provide," "Install," "Remove," etc. indicates work was accomplished under the contract.

SHEET ON WHICH DETAIL APPEARS
SECTION OR DETAIL NO.
SHEET ON WHICH DETAIL IS CUT
SECTION SYMBOL

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
LAUNCH OPERATIONS CENTER
SMITH AND GILLESPIE, & ADACHE ASSOCIATES, INC. ENGINEERS
U.S. ARMY ENGINEER DISTRICT, JAX. CORPS OF ENGINEERS JACKSONVILLE, FLA.
NASA MERRITT ISLAND LAUNCH AREA
MERRITT ISLAND, FLA.
M11A UTILITIES DEVELOPMENT HEAT DISTRIBUTION EXPANSION LOOP SCHEDULE AND MISC. DETAILS
Dwn. by VC Ck. by WDN
INV. NO. ENG. (NASA) 66-123-63-29 DATED: 1/21/63 SIZE F FILE NO. DO.203-28, 094
SCALE: AS NOTED DATED: JAN 1963 SHEET 263 OF
H02.00.00.0ADC019.00

THIS SPACE RESERVED

SYM	ZONE	DESCRIPTION	DATE	APPROVED

REVISIONS

THIS DRAWING CREATED IN AUTOCAD 2007 FILE FORMAT AND WILL BE REVISED ONLY ON AN AUTOCAD SYSTEM. FILE: 14000212P1–D54.DWG

JONES EDMUNDS
730 NE WALDO ROAD, GAINESVILLE, FLORIDA 32641 / (352) 377-5821
3910 S WASHINGTON AVE, SUITE 210, TITUSVILLE, FLORIDA 32780 / (321) 269-2950

SIGNATURES	DATE
DRAWN C. COFFEY	06/10/13
CHECKED K. RIVERA	06/10/13
SUBMITTED [signature] J. BELL	06/10/13
ST of LICENSURE: FL LICENSE NO: 69033	06/10/13
APPROVED [signature] D. TOTH	6/10/13
[signature] I. OTERO	JUN 12/13

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

CLOSE/DEMOLISH FACILITIES AND STRUCTURES, VARIOUS LOCATIONS, PACKAGE 1

BUILDING M7-1112 AS-BUILTS

FILE NO. | SIZE F | DWG. NO. 79K39389 | REV
PROJ. NO. 97963.9 | SHEET 61

D54

FILE: \\titusmdl01\drafting\14000 Nasa\212-01_Design-Close-Demo-Var-Facs-FY13&14\Contract Drawings\Package 1\Civil\14000212P1-D54.dwg PRINTED: 6/10/2013 2:19 PM, BY USER: Kristian Perez LAST MODIFIED: 4/15/2013 8:24 AM, BY USER: CCoffey

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GENERAL NOTE

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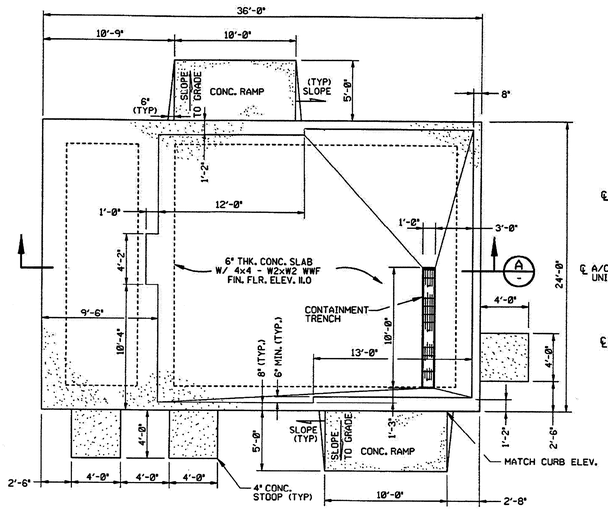
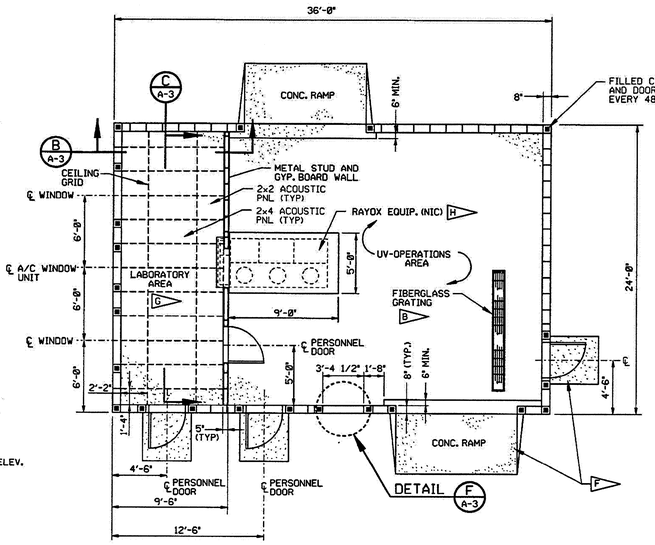
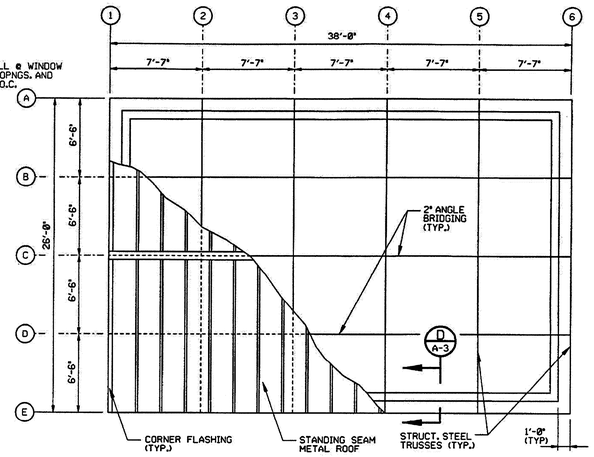


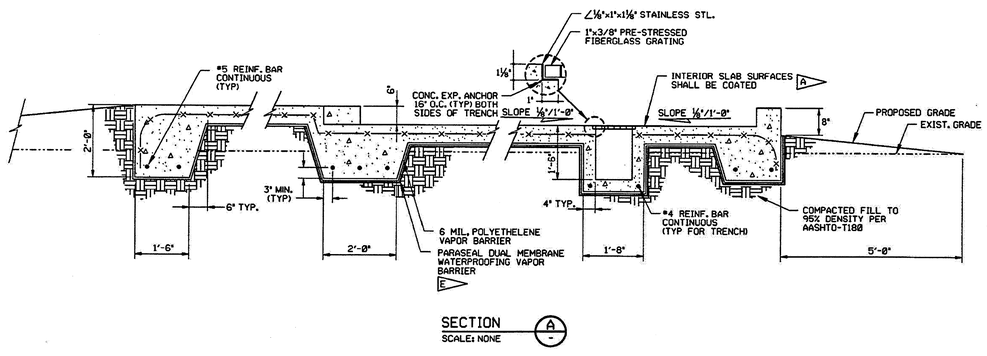
FOUNDATION PLAN
SCALE: ¼" = 1'-0"



FLOOR PLAN
SCALE: ¼" = 1'-0"



ROOF FRAMING PLAN
SCALE: ¼" = 1'-0"



SECTION
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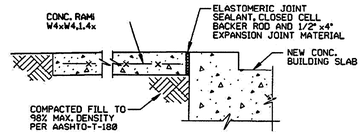
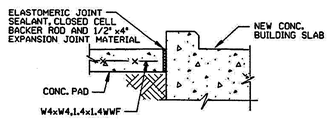


TYPICAL SECTION @ RAMP
SCALE: NONE



TYPICAL SECTION @ PERSONNEL DOOR
SCALE: NONE

SPECIFIC NOTES:

A. INTERIOR SURFACES OF THE CONCRETE FLOOR SLAB AND CONTAINMENT CURB OF THE OPERATIONS AREA SHALL BE COATED WITH EUCOTHANE HIGH PERFORMANCE URETHANE COATING AS DISTRIBUTED BY COASTAL CONST. PRODUCTS 4210-101 L.B. McLEOD RD., ORLANDO, FL. OR APPROVED EQUAL. COATING SHALL BE APPLIED IN STRICT ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS. APPLICATION SHALL BE AS A NON-SLIP SURFACE AND IN THE CONCRETE GRAY.

B. FIBERGLASS GRATING SHALL BE CHEMGRATE MOLDED ONE-PIECE REINFORCED POLYESTER (FRP) GRATING (CHEMGRATE CORP.) AS DISTRIBUTED BY ACR PROCESS EQUIPMENT, LAKE MARY, FLORIDA (407) 321-5115, OR APPROVED EQUAL.

C. ALL PERSONNEL DOORS SHALL BE 3o X 7o HOLLOW CORE ALUMINUM WITH MATCHING ALUMINUM FRAMES. DOORS SHALL BE STANDARD THICKNESS WITH 10" x 10" VISION PANELS LOCATED AS INDICATED. DOOR CLOSERS SHALL BE INSTALLED ON EACH PERSONNEL DOOR AND SHALL BE YALE TJ3100 OR APPROVED EQUAL. DOOR LOCKING MECHANISMS SHALL BE BY BEST CO., SUBCONTRACTOR SHALL PROVIDE BEST CO. LOCK AND CYLINDER SYSTEMS OR A HARDWARE SYSTEM COMPATIBLE WITH BEST CO.

D. STANDING SEAM METAL ROOF SYSTEM SHALL BE COATED WITH INSULATING COATINGS CORP. ASTEC #100 CERAMIC INSULATING COATING. ON ALL EXPOSED EXTERIOR SURFACES THE COATING SHALL BE APPLIED IN STRICT ACCORDANCE WITH THE MANUFACTURERS INSTRUCTIONS FOR HANDLING, PREPARATION AND INSTALLATION AND SHALL BE AS DISTRIBUTED BY ENERGYMAX COATING CORP., MELBOURNE, FLORIDA (407) 951-7511 OR APPROVED EQUAL. ALL EXTERIOR EXPOSED TO VIEW SURFACES SHALL BE COATED WITH THE COLOR TO MATCH FEDERAL STANDARD 595B#10091.

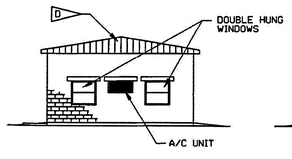
E. PARASEAL DUAL MEMBRANE WATERPROOFING VAPOR BARRIER BY PARAMOUNT TECHNICAL PRODUCTS INC. DIST. BY COSPEC MATERIALS ORLANDO, FL. (407) 849-1717 OR APPROVED EQUAL. INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS OR APPROVED EQUAL. (407-433-2038 W. PALM BEACH, FL.)

F. CONCRETE RAMPS AND EXTERIOR DOOR SLABS SHALL BE SEALED WITH SIL-ACT MULTIGARD WATER DISPERSABLE SILANE MANUFACTURED BY ADVANCED CHEMICAL TECHNOLOGIES AND SHALL BE APPLIED IN STRICT ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS, OR APPROVED EQUAL. DISTRIBUTED BY CONSPEC MATERIALS ORLANDO, FL. (407)849-1717

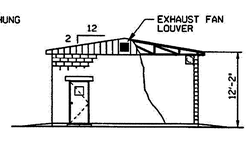
G. RESILIENT FLOOR TREATMENT FOR THE LABORATORY AERA SHALL BE ARMSTRONG COMMERCIAL VINYL COMPOSITION TILE, IMPERIAL TEXTURE TILE, #51903 BLUE/GRAY OR APPROVED EQUAL, INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS.

H. A 5'-0" x 9'-0" AREA OF THE OPERATIONS AREA FLOOR CENTERED UNDER THE LOCATION OF THE RAYOX PHOTOREACTOR SHALL BE PAINTED WITH BLACK POLYESTER-POLYURETHANE PAINT, MIL-C-8328-6 (595B #37038 BLACK)

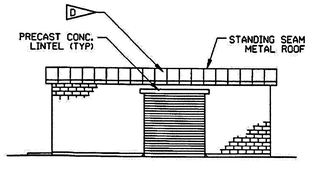
J. STANDING SEAM METAL ROOF SYSTEM SHALL MEET THE REQUIREMENTS FOR WINDLOAD AS SET FORTH IN ANSI-A58.1, AND SHALL HAVE A LIVELOAD/ DEADLOAD CAPABILITY OF 45 LBS. PSF.



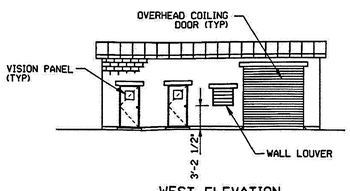
NORTH ELEVATION
SCALE: 1/8" = 1'-0"



SOUTH ELEVATION
SCALE: 1/8 " = 1'-0"



EAST ELEVATION
SCALE: 1/8 " = 1'-0"



WEST ELEVATION
SCALE: 1/8 " = 1'-0"

GRAPHIC SCALES:

⅛" = 1'-0" (0' 2' 4' 6' 8' 16' 24')

¼" = 1'-0" (0' 1' 2' 3' 4' 8' 12')

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON FRACTIONS ± DECIMALS ± ANGLES
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C0476300.003
COMPUTER DESIGN FILE NAME
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EBSI FLORIDA

SYM	ZONE	DESCRIPTION	DATE	APPROVED

REVISIONS

SIGNATURES	DATE
DRAWN C.MURPHY	11/13/97
CHECKED A.QUALLEN	11/13/97
ENGINEER J.MINER	11/13/97
SUBMITTED J.MINER	11/13/97
APPROVED C. MALLOY	DATE
TITLE BRANCH MANAGER	

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

KSC INDUSTRIAL AREA

UV-FUEL WASTEWATER TREATMENT PROCESS ENCLOSURE

FOUNDATION PLAN, FLOOR PLAN, ROOF FRAMING PLAN, ELEVATIONS AND DETAILS

SIZE	DWG. NO.	REV
F	81K04763	
PROJ. NO.	WPCN 136782	SHEET 3

A-2

THIS SPACE RESERVED

SYM	ZONE	DESCRIPTION	DATE	APPROVED

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JONES EDMUNDS
730 NE WALDO ROAD, GAINESVILLE, FLORIDA 32641 / (352) 377-5821
3910 S WASHINGTON AVE, SUITE 210, TITUSVILLE, FLORIDA 32780 / (321) 269-2950

SIGNATURES	DATE
DRAWN C. COFFEY	06/10/13
CHECKED K. RIVERA	06/10/13
SUBMITTED J. BELL	06/10/13
ST of LICENSURE: FL LICENSE NO: 69033	06/10/13
APPROVED D. TOTH	6/10/13
I. OTERO	2013/11/3

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

CLOSE/DEMOLISH FACILITIES AND STRUCTURES, VARIOUS LOCATIONS, PACKAGE 1

BUILDING M6-0897 AS-BUILTS

FILE NO.	SIZE	DWG. NO.	REV
	F	79K39389	
PROJ. NO. 97963.9		SHEET 62	

D55

FILE: \\Itsumd01\Vertfrg\14000 Road\12-01_Design-Close-Demo-Vac-Face-FY13&14\Contract Drawings\Package 1\Cad\14000212P1-D55.dwg PRINTED: 6/10/2013 2:19 PM, BY USER: Kristian Perez LAST MODIFIED: 4/15/2013 8:24 AM, BY USER: CCoffey

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

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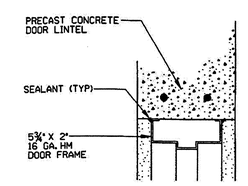

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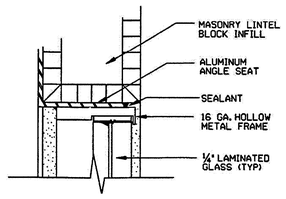

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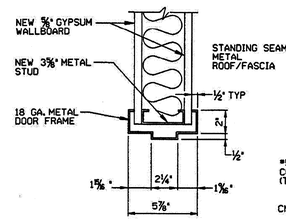

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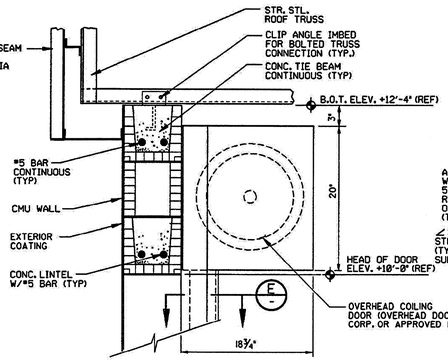
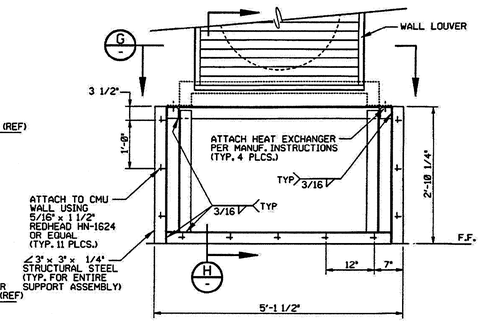
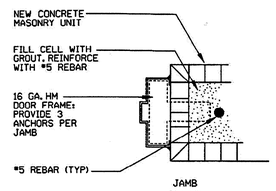


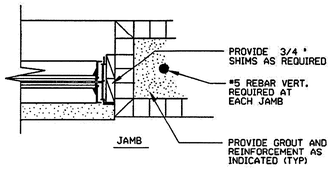
SECTION D
SCALE: NONE A-2



DETAIL F
SCALE: 1" = 1'-0" A-2



JAMB



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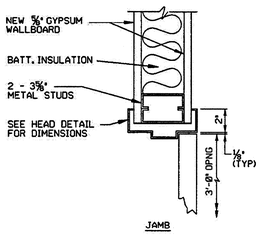

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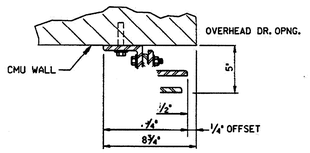

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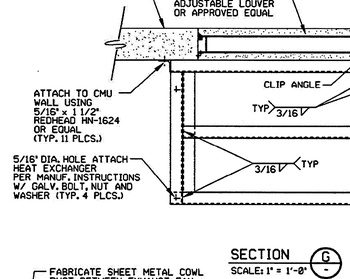

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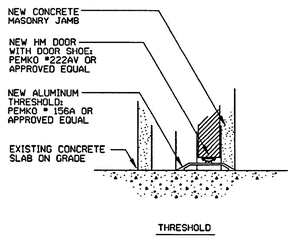
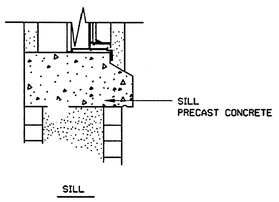
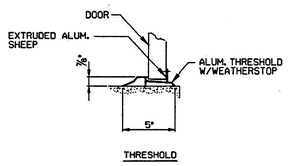


THRESHOLD

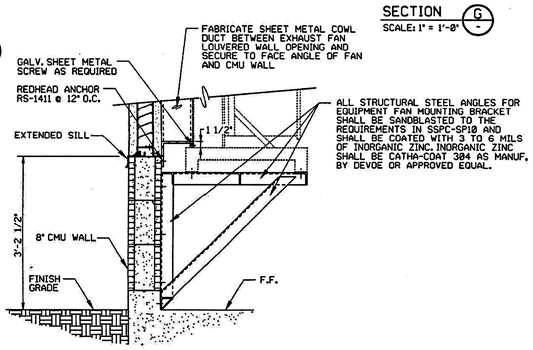


SILL



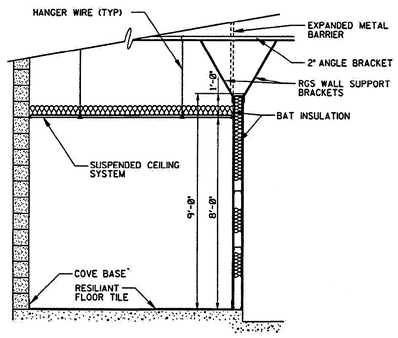
THRESHOLD

SECTION E
SCALE: NONE -



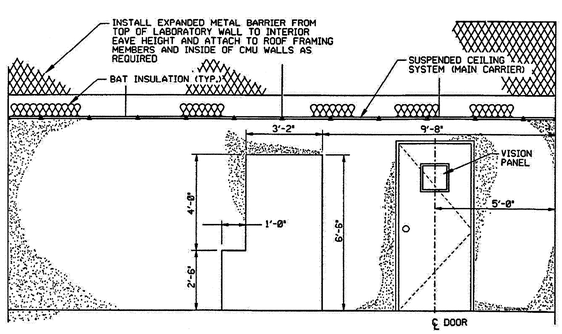
SECTION H
SCALE: 1" = 1'-0" -

EXTERIOR DOOR DETAILS
SCALE: 3" = 1'-0"



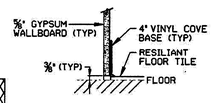
SECTION B
SCALE: 1/2" = 1'-0" A-2

WINDOW DETAILS
SCALE: 3" = 1'-0"



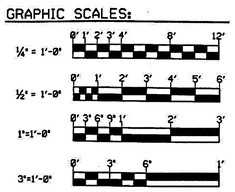
INTERIOR WALL SECTION C
SCALE: 1/2" = 1'-0" A-2

INTERIOR DOOR DETAILS
SCALE: NONE



TYPICAL COVE BASE DETAIL
SCALE: NONE
NOTE: COVE BASE TO BE IN LABORATORY ONLY.

GRAPHIC SCALES:



SYM	ZONE	DESCRIPTION	DATE	APPROVED
		REVISIONS		

SIGNATURES		DATE
DRAWN	C. MURPHY	1/15/97
CHECKED	D. ALLEN	1/19/94
ENGINEER		1/19/97

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C0476300.004
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SUBMITTED A. MINER 1/23/97
APPROVED DATE
C. MALLOY
TITLE BRANCH MANAGER

UV-FUEL WASTEWATER TREATMENT PROCESS ENCLOSURE
STRUCTURAL PLAN AND DETAILS

SIZE F | DWG. NO. 81K04763 | REV
PROJ. NO. WPCN 136782 | SHEET 4

A-3 | EG&G FLORIDA

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JONES EDMUNDS
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3910 S WASHINGTON AVENUE, SUITE 210, TITUSVILLE, FLORIDA 32780 / (321) 269-2950

SIGNATURES	DATE
DRAWN C. COFFEY	06/10/13
CHECKED K. RIVERA	06/10/13
SUBMITTED J. BELL	06/10/13
ST of LICENSURE: FL LICENSE NO: 69033	06/10/13
APPROVED D. TOTH	6/10/13
L. OTERO	6/10/13

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KENNEDY SPACE CENTER, FLORIDA

CLOSE/DEMOLISH FACILITIES AND STRUCTURES, VARIOUS LOCATIONS, PACKAGE 1

BUILDING M6-0897 AS-BUILTS

FILE NO. | SIZE F | DWG. NO. 79K39389 | REV

PROJ. NO. 97963.9 | SHEET 63

D56

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

FILE: \\Vllusmed01\draftfwy\14000 Nasa\212-01_Design-Close-Demo-Var-Facs-FY13&14\Contract Drawings\Package 1\Civil\14000212P1-D56.dwg PRINTED: 6/10/2013 2:19 PM, BY USER: Kristin Perez LAST MODIFIED: 4/15/2013 8:24 AM, BY USER: CCoffey

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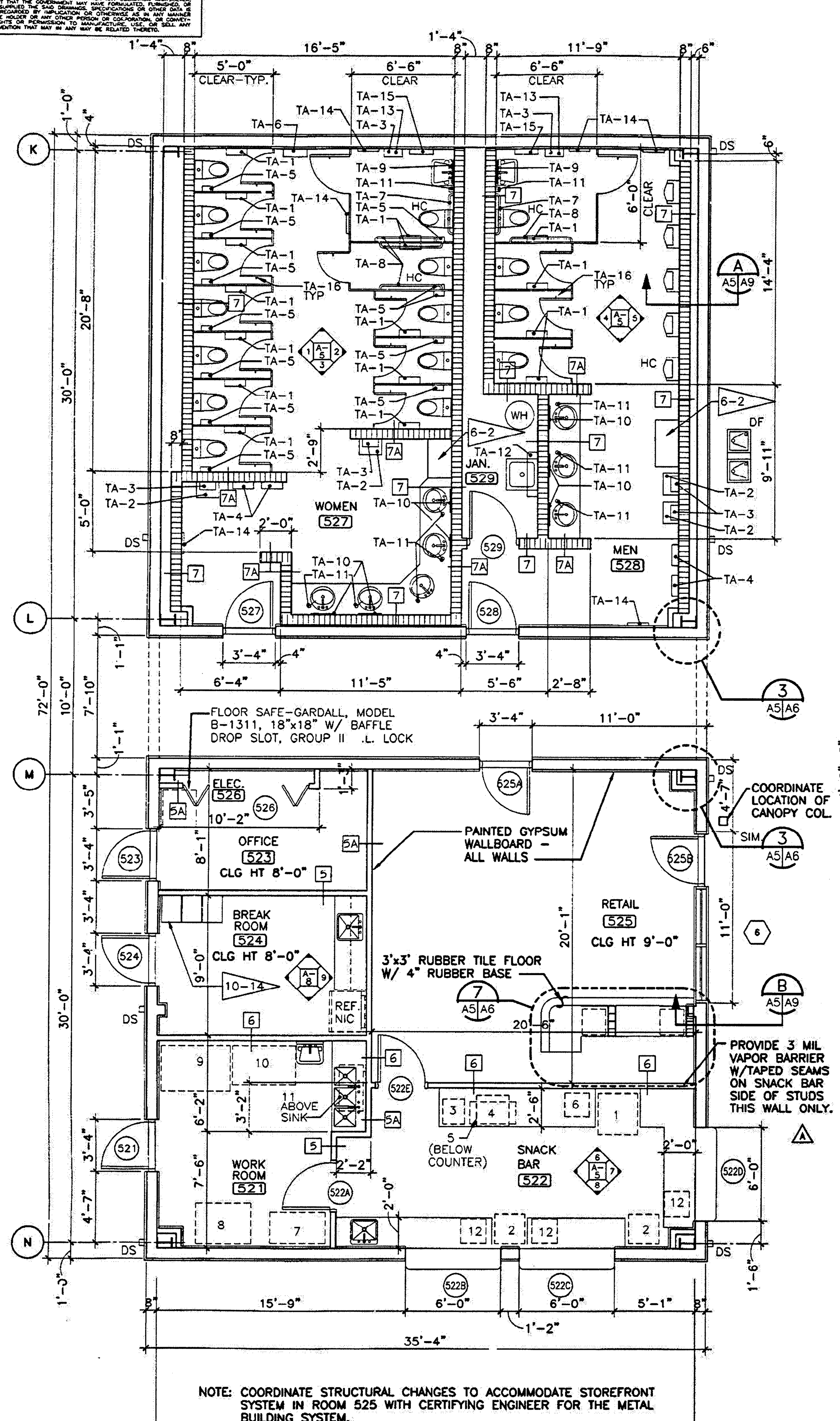


NOTE: COORDINATE STRUCTURAL CHANGES TO ACCOMMODATE STOREFRONT SYSTEM IN ROOM 525 WITH CERTIFYING ENGINEER FOR THE METAL BUILDING SYSTEM.

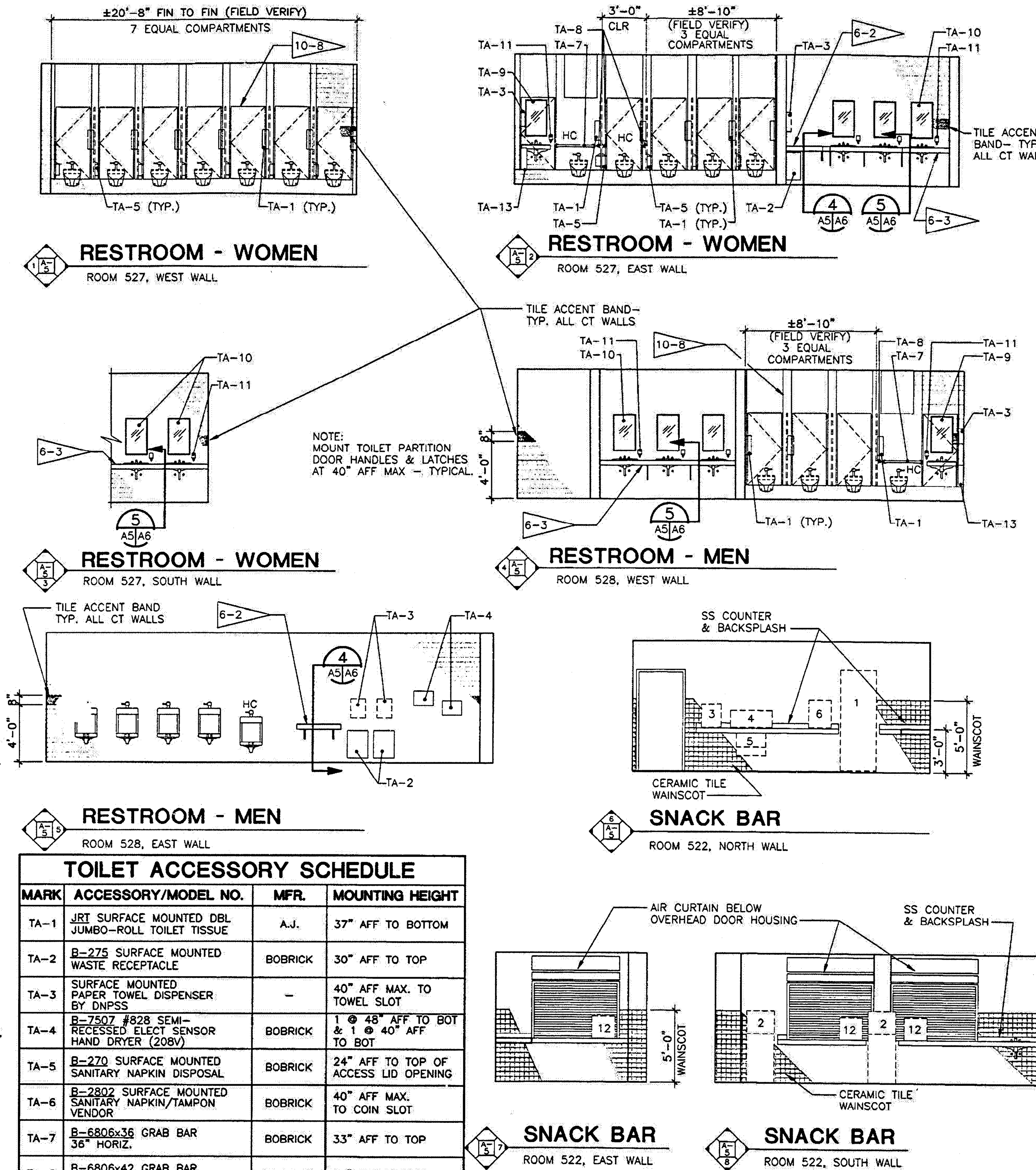
CONCESSION BUILDING FLOOR PLAN

1/4" = 1'-0"

EQUIPMENT LIST

[X] EQUIPMENT (SHOWN DASHED) N.I.C. CONTRACTOR SHALL COORDINATE WITH DNPSS ON INSTALLATION OF EQUIPMENT.

1. GLASS DOOR REACH IN REFRIGERATOR
2. FREESTANDING SODA DISPENSER (2)
3. COFFEE BREWER
4. ROLLER GRILL
5. 2-DRAWER WARMER
6. PRETZEL WARMER MERCHANDISER
7. BAG-IN-BOX SYSTEM
8. ICE MACHINE
9. WALK IN FREEZER
10. WORK TABLE
11. WALL SHELVES
12. POINT OF SALE TERMINALS (3)



INTERIOR ELEVATIONS

1/4" = 1'-0"

TOILET ACCESSORY SCHEDULE

MARK	ACCESSORY/MODEL NO.	MFR.	MOUNTING HEIGHT
TA-1	JRT SURFACE MOUNTED DBL JUMBO-ROLL TOILET TISSUE	A.J.	37" AFF TO BOTTOM
TA-2	B-275 SURFACE MOUNTED WASTE RECEPTACLE	BOBRICK	30" AFF TO TOP
TA-3	SURFACE MOUNTED PAPER TOWEL DISPENSER BY DNPSS	–	40" AFF MAX. TO TOWEL SLOT
TA-4	B-7507 #828 SEMI-RECESSED ELECT SENSOR HAND DRYER (208V)	BOBRICK	1 @ 48" AFF TO BOT & 1 @ 40" AFF TO BOT
TA-5	B-270 SURFACE MOUNTED SANITARY NAPKIN DISPOSAL	BOBRICK	24" AFF TO TOP OF ACCESS LID OPENING
TA-6	B-2802 SURFACE MOUNTED SANITARY NAPKIN/TAMPON VENDOR	BOBRICK	40" AFF MAX. TO COIN SLOT
TA-7	B-6806x36 GRAB BAR 36" HORIZ.	BOBRICK	33" AFF TO TOP
TA-8	B-6806x42 GRAB BAR 42" HORIZ.	BOBRICK	33" AFF TO TOP
TA-9	B-293 1830 FRAMED TILT MIRROR 18" X 30"	BOBRICK	40" AFF TO BOTTOM OF UNIT
TA-10	B-165 1836 S.S. FRAMED MIRROR 36" HIGH x 18" WIDE	BOBRICK	40" AFF TO BOTTOM OF UNIT
TA-11	SURFACE MOUNTED LIQUID SOAP DISPENSER BY DNPSS	–	40" AFF MAX TO OPERABLE MECHANISM
TA-12	B-239x34 SHELF W/ MOP, BROOM HOLDERS (3) AND HOOKS (4)	BOBRICK	6'-0" AFF TO TOP OF SHELF
TA-13	B-279 SURFACE MOUNTED WASTE RECEPTACLE	BOBRICK	27" AFF TO TOP
TA-14	B-221 SURFACE MOUNTED TOILET SEAT COVER DISPENSER	BOBRICK	40" AFF TO TOP
TA-15	B-6837X18 18" STAINLESS STEEL SHELF	BOBRICK	32" AFF TO TOP
TA-16	B-233 STAINLESS STEEL ROBE HOOK	BOBRICK	40" AFF TO TOP

NOTE: BOBRICK IS LISTED AS A BASIS OF DESIGN – OTHER MANUFACTURERS COMPLYING WITH REQUIREMENTS SHALL BE CONSIDERED BY OWNER'S REPRESENTATIVE WHEN SUBMITTED BY CONTRACTOR AS AN ALTERNATE.

NOTE:

- 6-2 SOLID PLASTIC DIAPER CHANGE COUNTER.
- 6-3 SOLID PLASTIC VANITY.
- 10-8 SOLID PLASTIC CEILING HUNG TOILET PARTITION.
- 10-14 DOUBLE TIER METAL LOCKERS, 12"x18"x72", WITH ENCLOSED BASE. EQUAL TO "PENCO" MODEL 6235V.

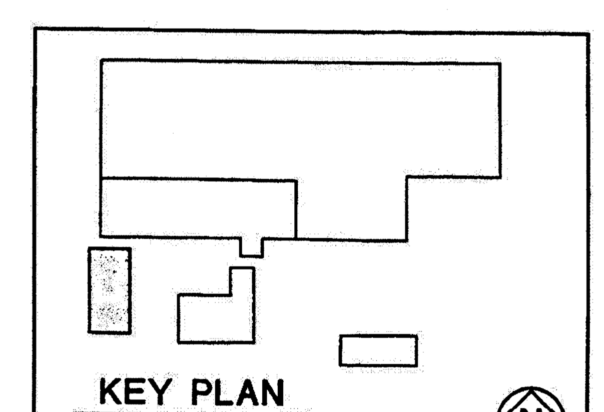
PLUMBING FIX. MOUNTING HEIGHT SCHEDULE

	FIXTURE	MOUNTING HEIGHT
STANDARD FIXTURES	URINALS	24" TO LIP
	WATER CLOSET WALL MOUNTED	15" TO LIP
	LAVATORIES	30" TO LIP
	ELECTRIC WATER COOLERS	40" TO BASE OF SPOUT
ACCESSIBLE FIXTURES	HC URINALS	17" TO LIP
	HC WATER CLOSET WALL MOUNTED	18" TO LIP
	HC LAVATORIES	29" CLEAR TO BOTTOM OF APRON
	HC ELECTRIC WATER COOLERS	36" TO SPOUT

1. ACCESSIBLE FIXTURES ARE NOTED AS "HC" ON PLAN. MOUNTING HEIGHTS GIVEN ARE IN CONFORMANCE WITH REQUIREMENTS OF THE UNIFORM FEDERAL ACCESSIBILITY STANDARDS.
2. ALL WATER CLOSETS AND URINALS HAVE SENSOR OPERATED FLUSH VALVES.

WALL TYPES

- [5] 3-5/8" METAL STUDS @ 24" O.C. WITH 5/8" GWB BOTH SIDES. EXTEND WALL UP TO 6" ABOVE HIGHEST ADJACENT CEILING AND BRACE TOP OF WALL TO STRUCTURE ABOVE.
- [5A] SAME AS [5] EXCEPT EXTEND WALL UP TO STRUCTURE ABOVE.
- [6] 3-5/8" METAL STUDS @ 24" O.C. WITH 5/8" GWB BOTH SIDES AND 3" SOUND ATTENUATION BLANKETS BETWEEN STUDS. EXTEND WALL UP TO ROOF DECK.
- [7] 8" CMU WITH CERAMIC TILE FINISH ON ONE SIDE. EXTEND WALL UP TO 9'-4" ABOVE FLOOR SLAB.
- [7A] 8" CMU WITH CERAMIC TILE FINISH ON BOTH SIDES.



KEY PLAN

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SYM	ZONE	DESCRIPTION	DATE	APPROVED
A		AS-BUILT	6/7/99	

REVISIONS

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MELBOURNE, FLORIDA 32940
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SIGNATURES		DATE
DESIGNED	SMITH	01/15/97
DRAWN	MORRIS	01/15/97
CHECKED	SMITH	01/15/97
SUBMITTED	LUMAN	01/15/97
APPROVED		6/7/99
APPROVED		
APPROVED		
APPROVED		
APPROVED		
APPROVED		

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JOHN F. KENNEDY SPACE CENTER, NASA
KENNEDY SPACE CENTER, FLORIDA

KSC PUBLIC VISITOR PROGRAM
INDUSTRIAL AREA
MODIFICATIONS TO BUILDING M7-409
SPACE STATION/FUTURE ENTERPRISES
CONCESSION BUILDING FLOOR PLAN

FILE NO. 3702.03.5 | SIZE F | DWG.NO. 79K34410 | REV A
PROJ.NO. PCN 96887.05 | SHEET 14 OF 52

A-5

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SYM	ZONE	DESCRIPTION	DATE	APPROVED

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SIGNATURES	DATE
DRAWN C. COFFEY	06/10/13
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SUBMITTED J. BELL	06/10/13
ST of LICENSURE: FL LICENSE NO: 69033	06/10/13
APPROVED D. TOTH	6/10/13
I. OTERO	JUN 12/13

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CLOSE/DEMOLISH FACILITIES AND STRUCTURES, VARIOUS LOCATIONS, PACKAGE 1

BUILDING M7-0459 AS-BUILTS

FILE NO. | SIZE F | DWG. NO. 79K39389 | REV
PROJ. NO. 97963.9 | SHEET 64

D57

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

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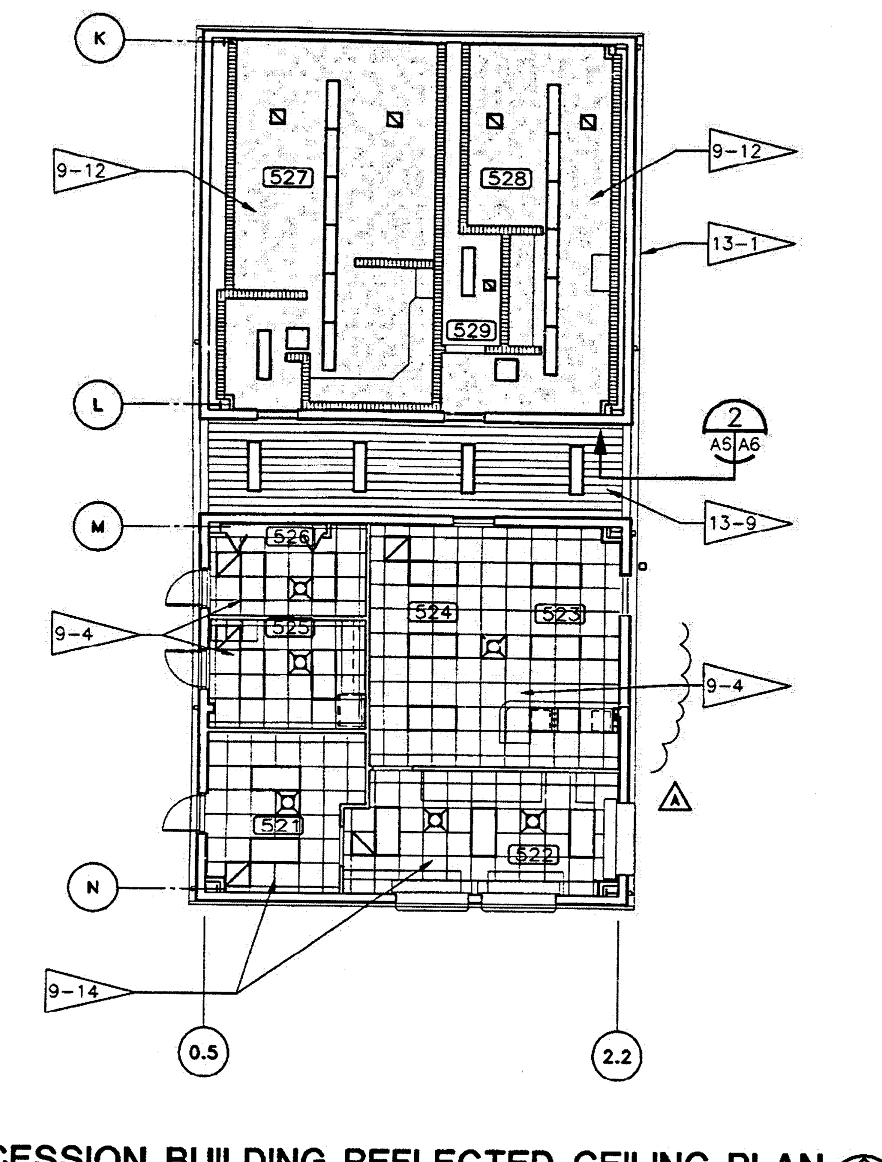
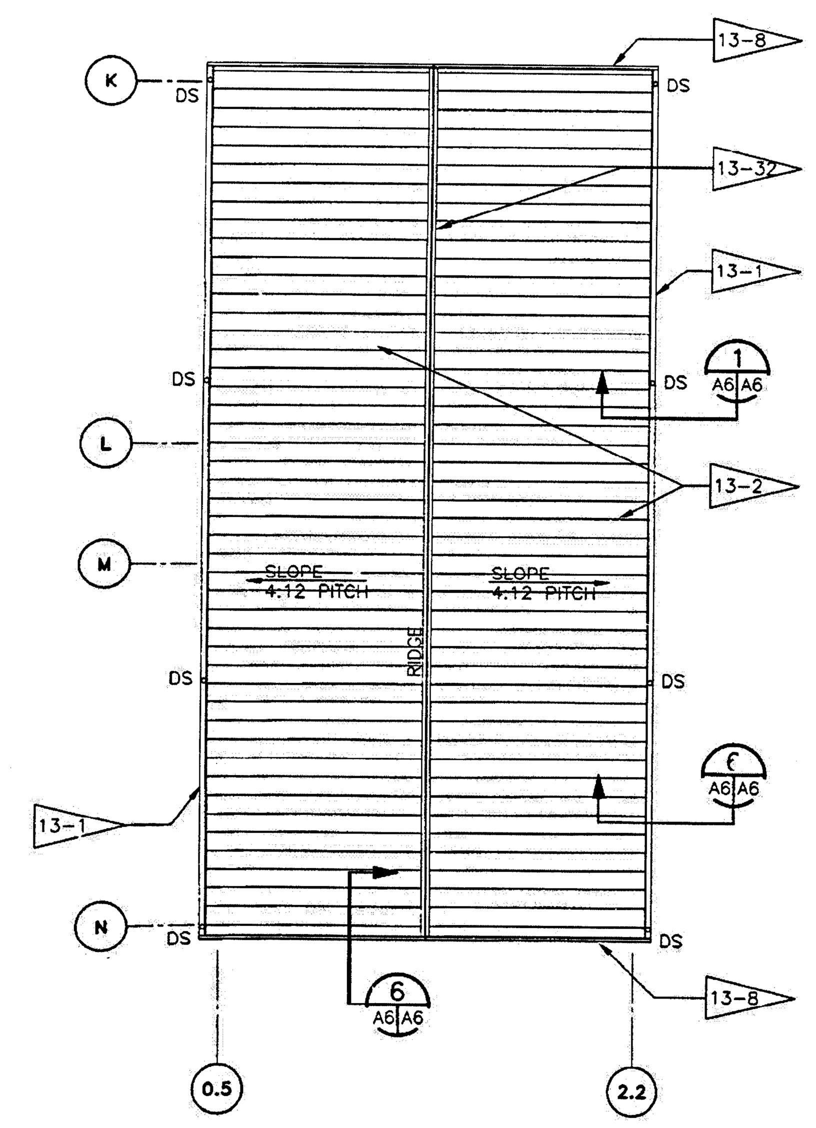
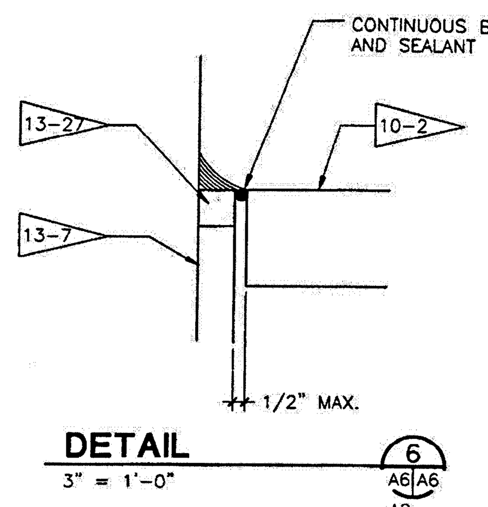


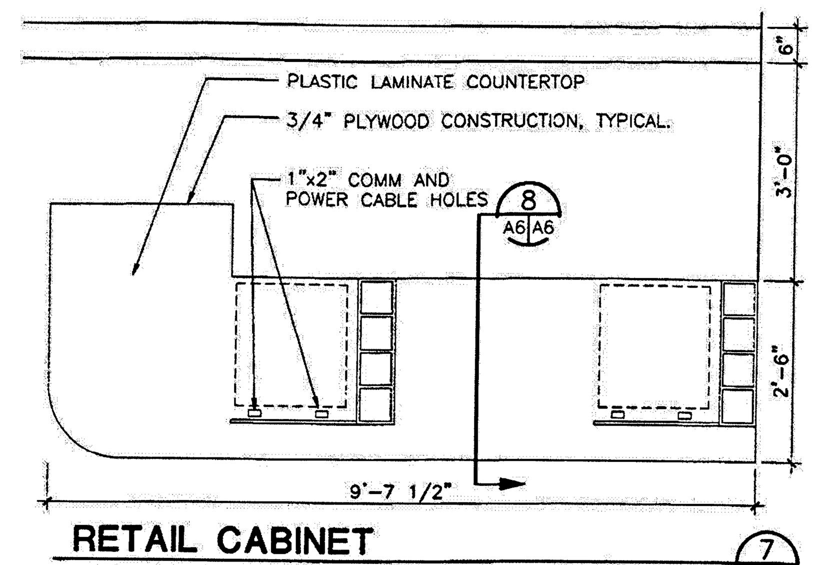
CONCESSION BUILDING REFLECTED CEILING PLAN
1/8" = 1'-0"



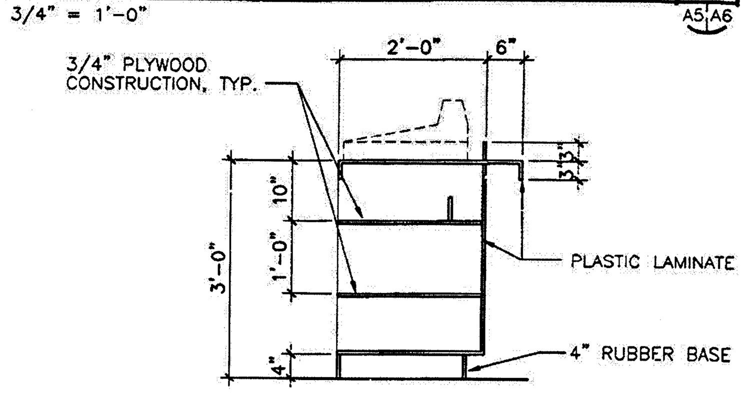
CONCESSION BUILDING ROOF PLAN
1/8" = 1'-0"



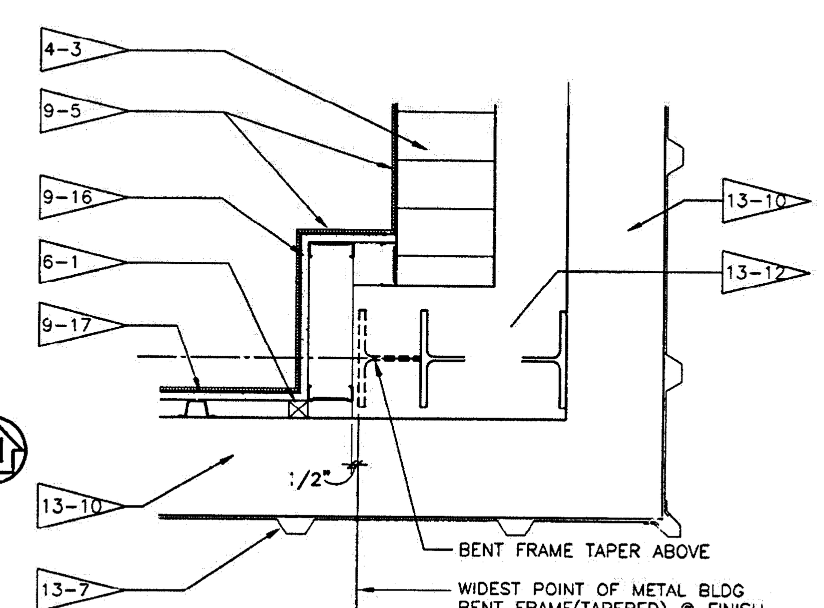
DETAIL 6 (A6/A6, A2)
3" = 1'-0"



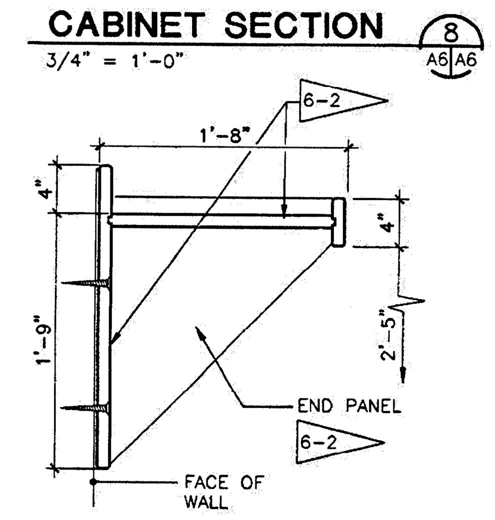
RETAIL CABINET 7 (A5/A6)
3/4" = 1'-0"



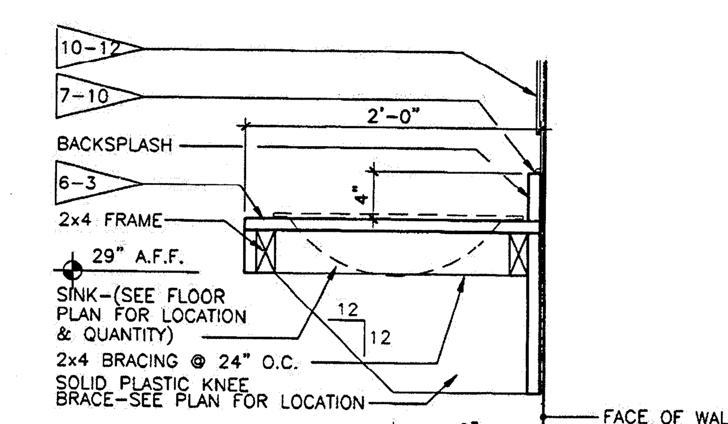
CABINET SECTION 8 (A5/A6)
3/4" = 1'-0"



DETAIL 3 (A5/A6)
1-1/2" = 1'-0"



DETAIL- DIAPER CHANGE 4 (A5/A6)
1-1/2" = 1'-0"



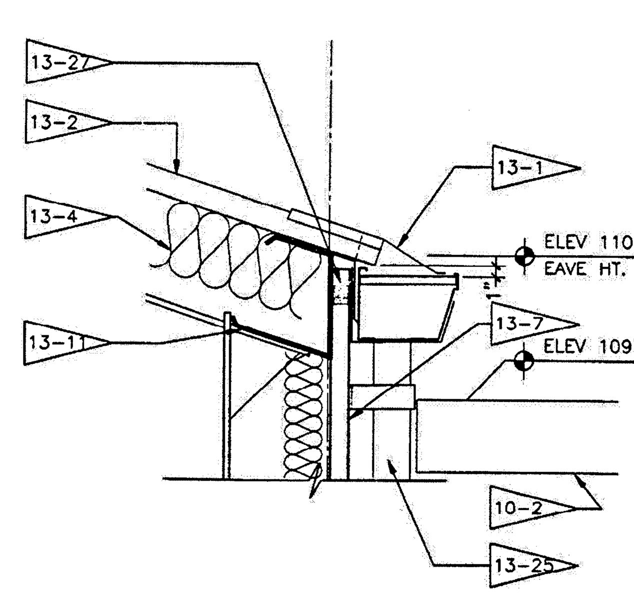
DETAIL 5 (A5/A6)
1-1/2" = 1'-0"

CEILING LEGEND

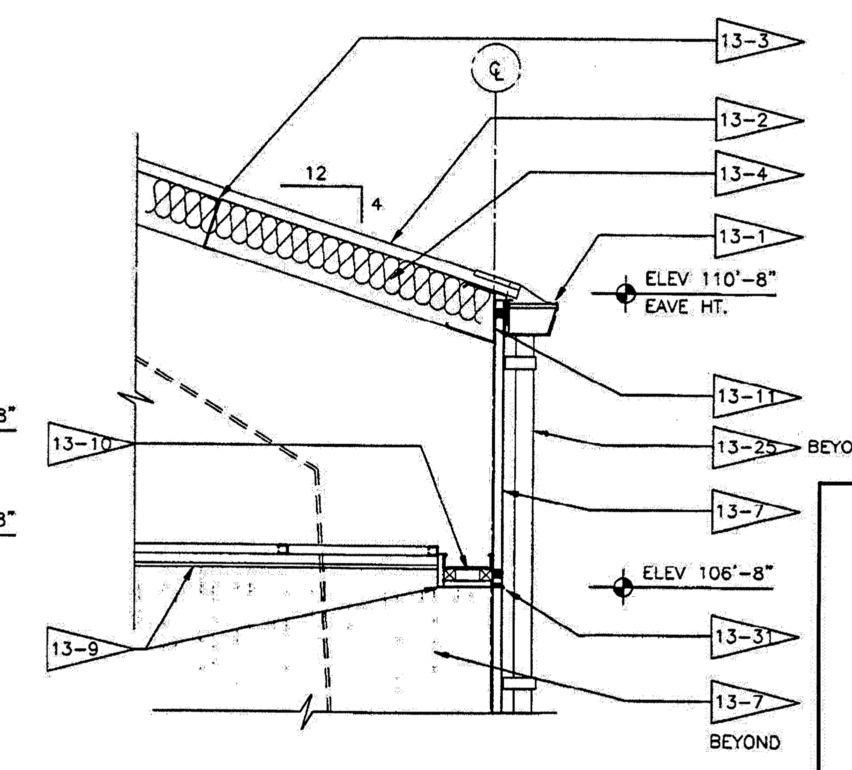
SYMBOL	DESCRIPTION
	GYPSUM WALLBOARD OR CEMENT PLASTER WHERE SCHEDULED
	2'-0" X 2'-0" CEILING GRID
	4'-0" x 2'-0" FLUORESCENT FIXTURE
	4'-0" x 1'-0" FLUORESCENT FIXTURE
	4'-0" STRIP LIGHT
	RECESSED LIGHT FIXTURES
	EXIT LIGHT
	SUPPLY DIFFUSER
	EXHAUST/GRILLE
	CEILING GRILLE/RETURN AIR

NOTES:

4-3	8" CMU WALL WITH CONTINUOUS HORIZONTAL JOINT REINFORCING AT 16" O.C. VERTICALLY.
6-1	PRESSURE TREATED WOOD BLOCKING.
6-2	SOLID PLASTIC DIAPER CHANGE COUNTER.
6-3	SOLID PLASTIC VANITY.
7-10	ELASTOMERIC SEALANT CONTINUOUS.
9-4	SUSPENDED ACOUSTICAL TILE CEILING.
9-5	CERAMIC TILE.
9-12	5/8" EXTERIOR GYPSUM CEILINGBOARD ON SUSPENDED METAL FURRING CHANNELS.
9-14	SUSPENDED ACOUSTICAL TILE CEILING WITH CERAMIC COATED TILES.
9-16	5/8" BACKERBOARD ONE SIDE OF 3-5/8" METAL STUDS AT 24" O.C.
9-17	5/8" BACKERBOARD OVER 1-1/2" DEEP FURRING CHANNELS AT 24" O.C. OVER WALL GIRTS.
10-2	ALUMINUM WALKWAY CANOPY, 11' HIGH
10-12	MIRROR
13-1	CONTINUOUS 6"x6" METAL GUTTER WITH BRACKETS AND SPACERS @ 36" O.C., ALTERNATING.
13-2	STANDING SEAM METAL ROOF.
13-3	ROOF PURLINS.
13-4	ROOF INSULATION (R-20).
13-7	EXTERIOR WALL PANELS.
13-8	CONTINUOUS METAL EAVE TRIM.
13-9	METAL SOFFIT PANELS.
13-10	STEEL WALL GIRT.
13-11	STEEL EAVE STRUT.
13-12	STEEL BENT FRAME.
13-25	3"x4" METAL DOWNSPOUT WITH BRACKETS AT 5'-0" O.C. MAX.
13-27	PREMOLDED CLOSURE CONTINUOUS.
13-31	CONTINUOUS SILL TRIM.
13-32	RIDGE CAP BY ROOF PANEL MANUFACTURER.



DETAIL 1 (A6/A6, A9)
3/4" = 1'-0"



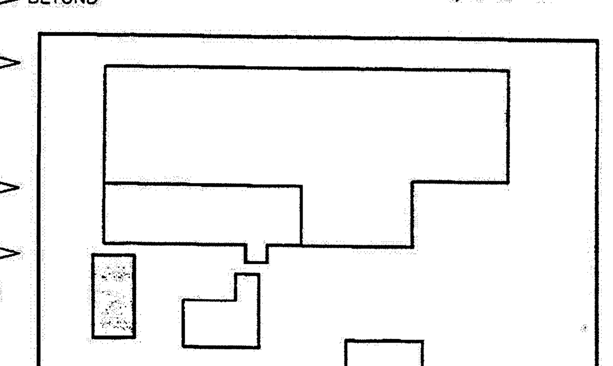
DETAIL 2 (A6/A6)
3/4" = 1'-0"

0 2" 4" 8" 1' — 3"=1'-0"

0 6" 12" 18" 24" — 1-1/2"=1'-0"

0 6" 1' 2' 3' 4' — 3/4"=1'-0"

0 4' 8' 16' 24' — 1/8"=1'-0"



KEY PLAN

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BRPH ARCHITECTS • ENGINEERS, INC. 3275 SUNTREE BOULEVARD MELBOURNE, FLORIDA 32940

Delaware North Parks Services of Spaceport, Inc.

SIGNATURES		DATE
DESIGNED	SMITH	01/15/97
DRAWN	MORRIS	01/15/97
CHECKED	SMITH	01/15/97
SUBMITTED	LUMAN	01/15/97

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

KSC PUBLIC VISITOR PROGRAM INDUSTRIAL AREA
MODIFICATIONS TO BUILDING M7-409
SPACE STATION/FUTURE ENTERPRISES
CONCESSION BUILDING REFLECTED CEILING & ROOF PLANS

FILE NO. 3702.03.5 | SIZE F | DWG.NO. 79K34410 | REV A
PROJ.NO. PCN 96887.05 | SHEET 15 OF 52

A-6

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3910 S WASHINGTON AVE, SUITE 210, TITUSVILLE, FLORIDA 32780 / (321) 269-2950

SIGNATURES	DATE
DRAWN C. COFFEY	06/10/13
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SUBMITTED J. BELL	06/10/13
ST of LICENSURE: FL LICENSE NO: 69033	06/10/13
APPROVED D. TOTH	6/10/13
I. OTERO	

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JOHN F. KENNEDY SPACE CENTER, NASA
KENNEDY SPACE CENTER, FLORIDA

CLOSE/DEMOLISH FACILITIES AND STRUCTURES, VARIOUS LOCATIONS, PACKAGE 1

BUILDING M7-0459 AS-BUILTS

FILE NO. | SIZE F | DWG. NO. 79K39389 | REV
PROJ. NO. 97963.9 | SHEET 65

D58

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

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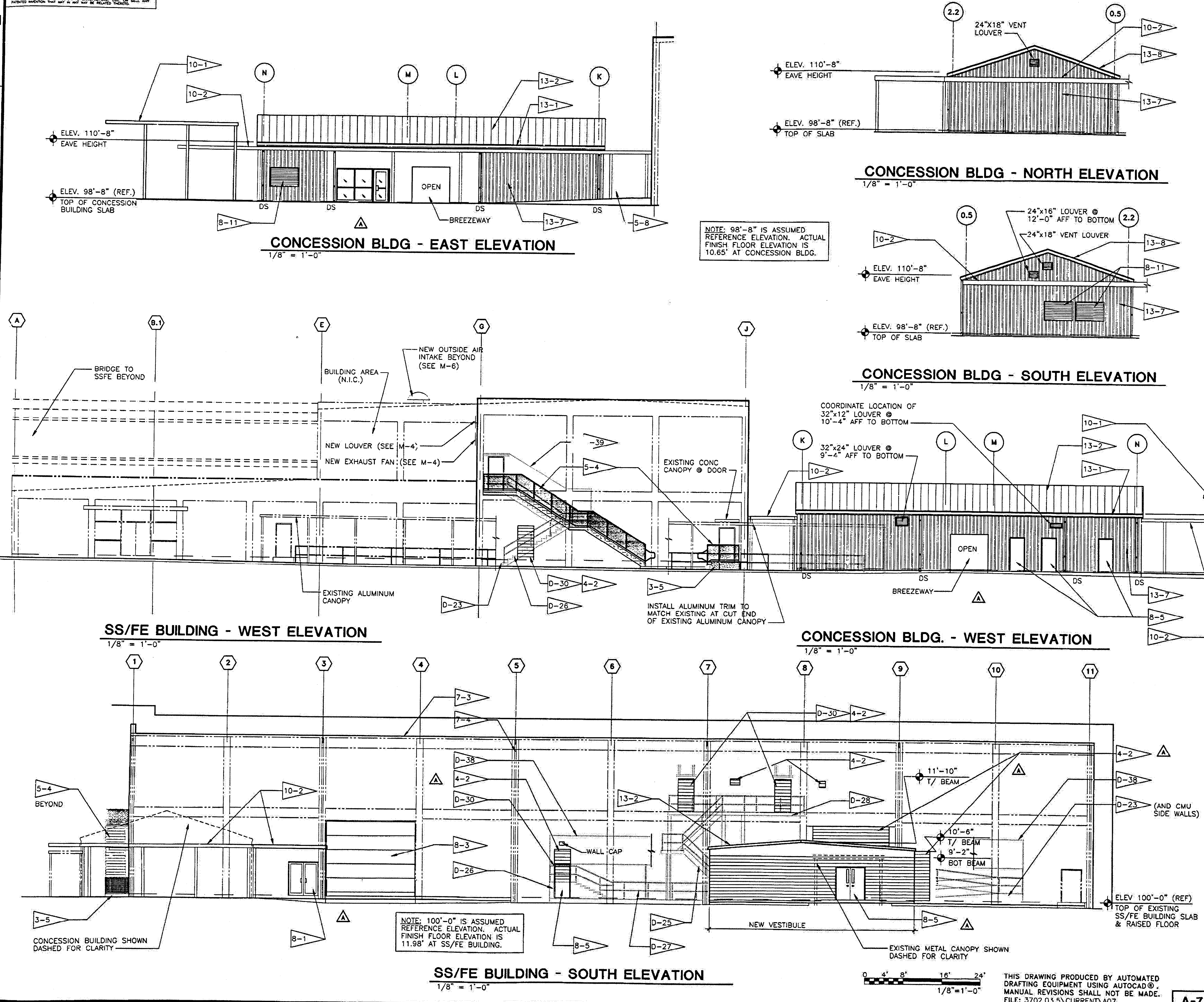
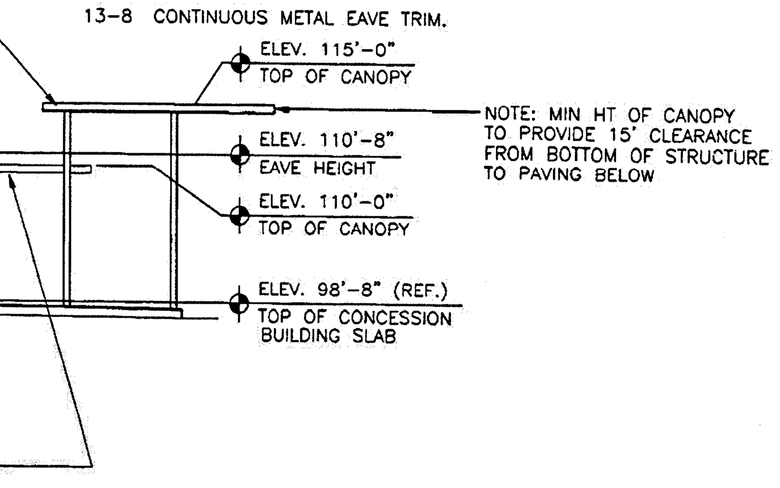


NOTES:

- D-23 REMOVE EXISTING RAMP: CONCRETE SLAB RAMP AND METAL HANDRAILS.
- D-25 REMOVE EXISTING METAL STAIR AND SUPPORTING METAL COLUMNS. NOTE: BOTTOM PORTION OF STAIR IS CONCRETE. (5 RISERS, 4 TREADS AND LANDING).
- D-26 REMOVE EXISTING CONCRETE STAIR WITH METAL HANDRAILS.
- D-27 REMOVE EXISTING 42" HIGH METAL GUARDRAIL.
- D-28 REMOVE EXISTING METAL PLATFORM AND SUPPORTING COLUMNS.
- D-30 REMOVE EXISTING METAL DOOR AND FRAME.
- D-38 REMOVE EXISTING CANOPY: CANVASS AWNING WITH ALUMINUM FRAME AND COLUMNS. (EXISTING CANOPY IS ±100' IN LEGNTH).
- D-39 REMOVE EXISTING STAIR ENCLOSURE: FIBERGLASS WALL PANELS AND METAL ROOF PANELS.
- 3-5 CONCRETE STAIR WITH HOT-DIP GALVANIZED METAL GUARDRAIL.
- 4-2 INFILL OPENING IN EXISTING CMU WALL WITH 8" CMU FLUSH WITH EXISTING ADJACENT CMU. PAINT EXTERIOR OF CMU INFILL TO MATCH EXISTING.
- 5-4 PREFABRICATED STEEL STAIR. NOTE: EXTERIOR STAIR & RAILS ARE HOT-DIP GALVANIZED STEEL, UNPAINTED & INTERIOR STAIR & GUARDRAILS ARE PAINTED STEEL, WITH RUBBER FLOORING ON TREADS AND RISERS.
- 5-8 HOT DIPPED GALVANIZED METAL HANDRAIL – 1-1/2" O.D.
- 7-3 EXISTING METAL GUTTER TO REMAIN.
- 7-4 EXISTING METAL DOWNSPOUT TO REMAIN.
- 8-1 ALUMINUM DOOR AND FRAME WITH TEMPERED GLASS.
- 8-2 ALUMINUM WINDOW AND FRAME WITH TEMPERED GLASS.
- 8-3 RENOVATED EXISTING SLIDING DOOR.
- 8-5 HOLLOW METAL DOOR(S) IN HOLLOW METAL FRAME.
- 8-11 OVERHEAD INSULATED COILING COUNTER SHUTTER.
- 10-1 ALUMINUM WALKWAY CANOPY, 16' HIGH.
- 10-2 ALUMINUM WALKWAY CANOPY, 11' HIGH.
- 13-1 CONTINUOUS 6"x6" METAL GUTTER WITH BRACKETS AND SPACERS @ 36" O.C., ALTERNATING.
- 13-2 STANDING SEAM METAL ROOF.
- 13-7 EXTERIOR METAL WALL PANELS.
- 13-8 CONTINUOUS METAL EAVE TRIM.



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KSC PUBLIC VISITOR PROGRAM
INDUSTRIAL AREA
MODIFICATIONS TO BUILDING M7-409
SPACE STATION/FUTURE ENTERPRISES
BUILDING ELEVATIONS

A-7

FILE NO. 3702.03.5 | SIZE F | DWG.NO. 79K34410 | REV A
PROJ.NO. PCN 96887.05 | SHEET 16 OF 52

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ST of LICENSURE: FL LICENSE NO: 69033	06/10/13
APPROVED D. TOTH	6/10/13
I. OTERO	JUN 12/13

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CLOSE/DEMOLISH FACILITIES AND STRUCTURES, VARIOUS LOCATIONS, PACKAGE 1

BUILDING M7-0459 AS-BUILTS

D59

FILE NO. | SIZE F | DWG. NO. 79K39389 | REV
PROJ. NO. 97963.9 | SHEET 66

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

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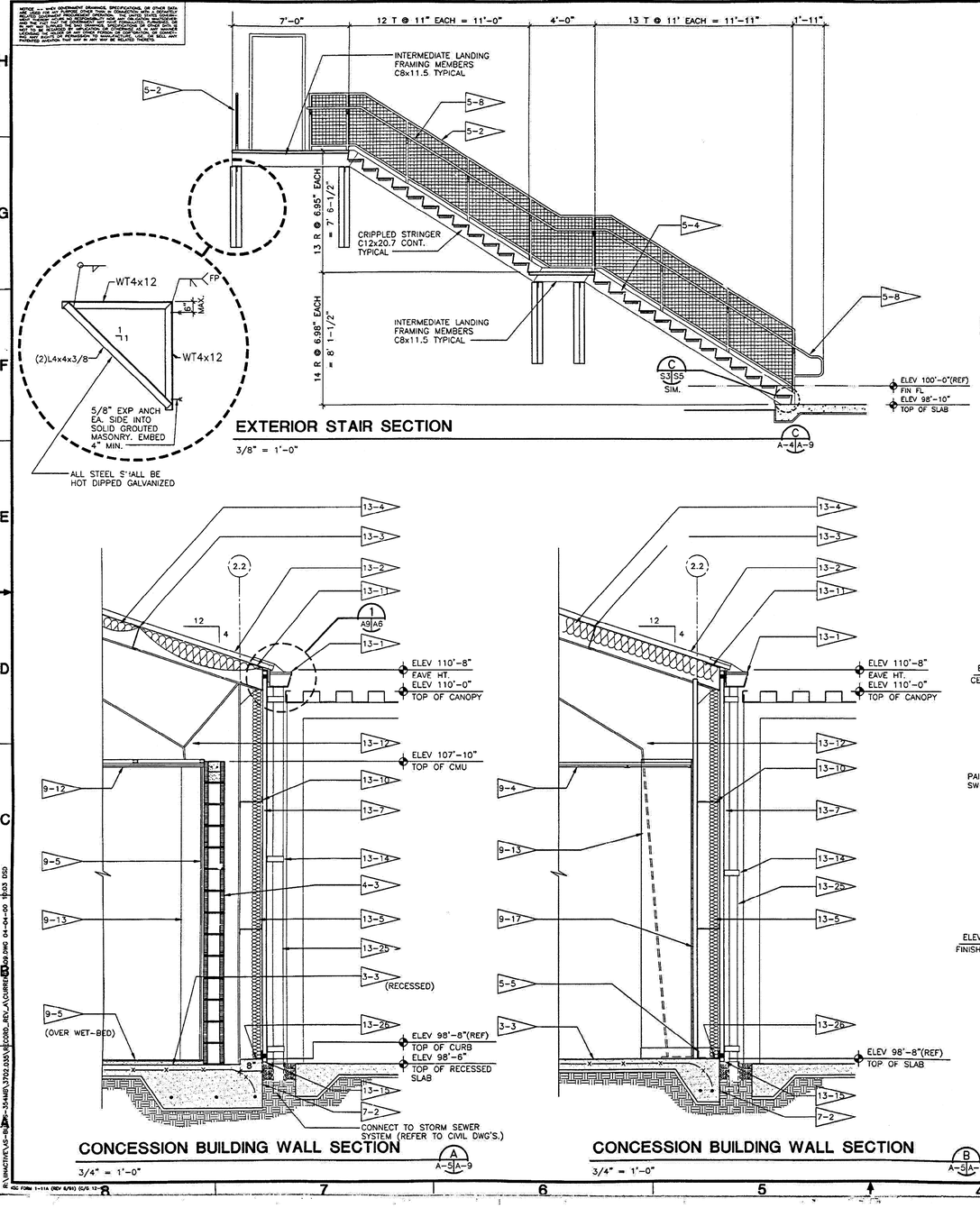
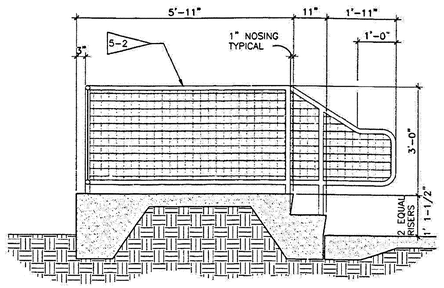


EXTERIOR STAIR SECTION

3/8" = 1'-0"



EXTERIOR STAIR SECTION

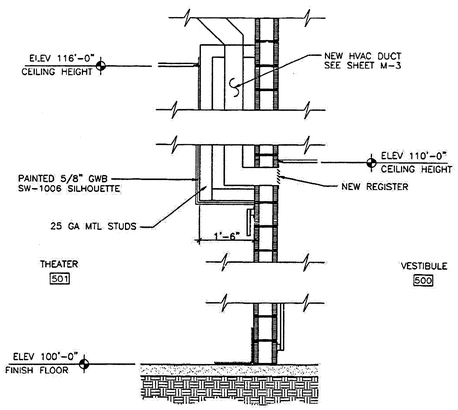
3/4" = 1'-0"

CONCESSION BUILDING WALL SECTION

3/4" = 1'-0"

CONCESSION BUILDING WALL SECTION

3/4" = 1'-0"



WALL SECTION

3/4" = 1'-0"

0 1" 2" 3" 4" 5" 6" 7" 8"
3/8"=1'-0"
0 6" 1' 2' 3' 4'
3/4"=1'-0"

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NOTES:

3-3	CONCRETE SLAB ON GRADE OVER VAPOR RETARDER.
4-3	8" CMU WALL WITH CONTINUOUS HORIZONTAL JOINT REINFORCING @ 16" O.C., VERT.
5-2	STEEL PIPE GUARDRAIL WITH WELDED WIRE MESH. GRIND ALL WELDS SMOOTH AND PAINT INTERIOR GUARDRAILS. EXTERIOR GUARDRAILS SHALL BE HOT DIPPED GALVANIZED AFTER FABRICATION.
5-4	PREFABRICATED STEEL STAIR. NOTE: EXTERIOR STAIR & RAILS ARE HOT-DIP GALVANIZED STEEL, UNPAINTED & INTERIOR STAIR & GUARDRAILS ARE PAINTED STEEL, WITH RUBBER FLOORING ON TREADS AND RISERS.
5-5	CONTINUOUS BASE ANGLE, 3x3x1/4
5-8	HOT DIPPED GALVANIZED METAL HANDRAIL - 1-1/2" O.D.
7-2	BITUMINOUS DAMP-PROOF, TYPICAL.
9-4	SUSPENDED ACOUSTICAL TILE CEILING.
9-5	CERAMIC TILE
9-12	5/8" EXTERIOR GYPSUM CEILING BOARD ON SUSPENDED METAL FURRING CHANNELS.
9-13	COLUMN FURRED-OUT BEYOND.
9-17	5/8" GWB OVER 1-1/2" DEEP FURRING CHANNELS AT 24" O.C. OVER WALL GIRTS.
13-1	CONTIUOUS 6"x6" METAL GUTTER WITH BRACKETS AND SPACERS AT 36" O.C., ALTERNATING.
13-2	STANDING SEAM METAL ROOF.
13-3	ROOF PURLINS.
13-4	ROOF INSULATION (R-20).
13-5	WALL INSULATION (R-13).
13-7	EXTERIOR METAL WALL PANELS.
13-10	STEEL WALL GIRT.
13-11	STEEL EAVE STRUT.
13-12	STEEL BENT FRAME.
13-14	METAL DOWNSPOUT BRACKET, 3 PER DOWNSPOUT.
13-15	CONTINUOUS TRIM FLASHING.
13-25	3"x4" METAL DOWNSPOUT WITH BRACKETS AT 5'-0" O.C. MAX.
13-26	CONTINUOUS BASE GIRT.

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CHECKED	SMITH	01/15/97
SUBMITTED	HUMAN	01/15/97
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KSC PUBLIC VISITOR PROGRAM
INDUSTRIAL AREA
MODIFICATIONS TO BUILDING M7-409
SPACE STATION/FUTURE ENTERPRISES
WALL SECTIONS AND DETAILS

FILE NO. 3702.03.5 | SIZE F | DWG.NO. 79K34410 | REV A
PROJ.NO. PCN 96887.05 | SHEET 18 OF

A-9

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CLOSE/DEMOLISH FACILITIES AND STRUCTURES, VARIOUS LOCATIONS, PACKAGE 1

BUILDING M7-0459 AS-BUILTS

FILE NO. | SIZE F | DWG. NO. 79K39389 | REV
PROJ. NO. 97963.9 | SHEET 67

D60

FILE: \\Titusmd01\Vault\y\14000 Nasa\212-01_Design-Close-Demo-Var-Facs-FY13&14\Contract Drawings\Package 1\Civil\14000212P1-D60.dwg PRINTED: 6/10/2013 2:20 PM, BY USER: Kristian Perez LAST MODIFIED: 4/15/2013 8:25 AM, BY USER: CCoffey
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KSC FORM 1-11A (REV 8/93) (C/G 12)
KSC FORM 1-11 (3/76)(C/G 3/94)

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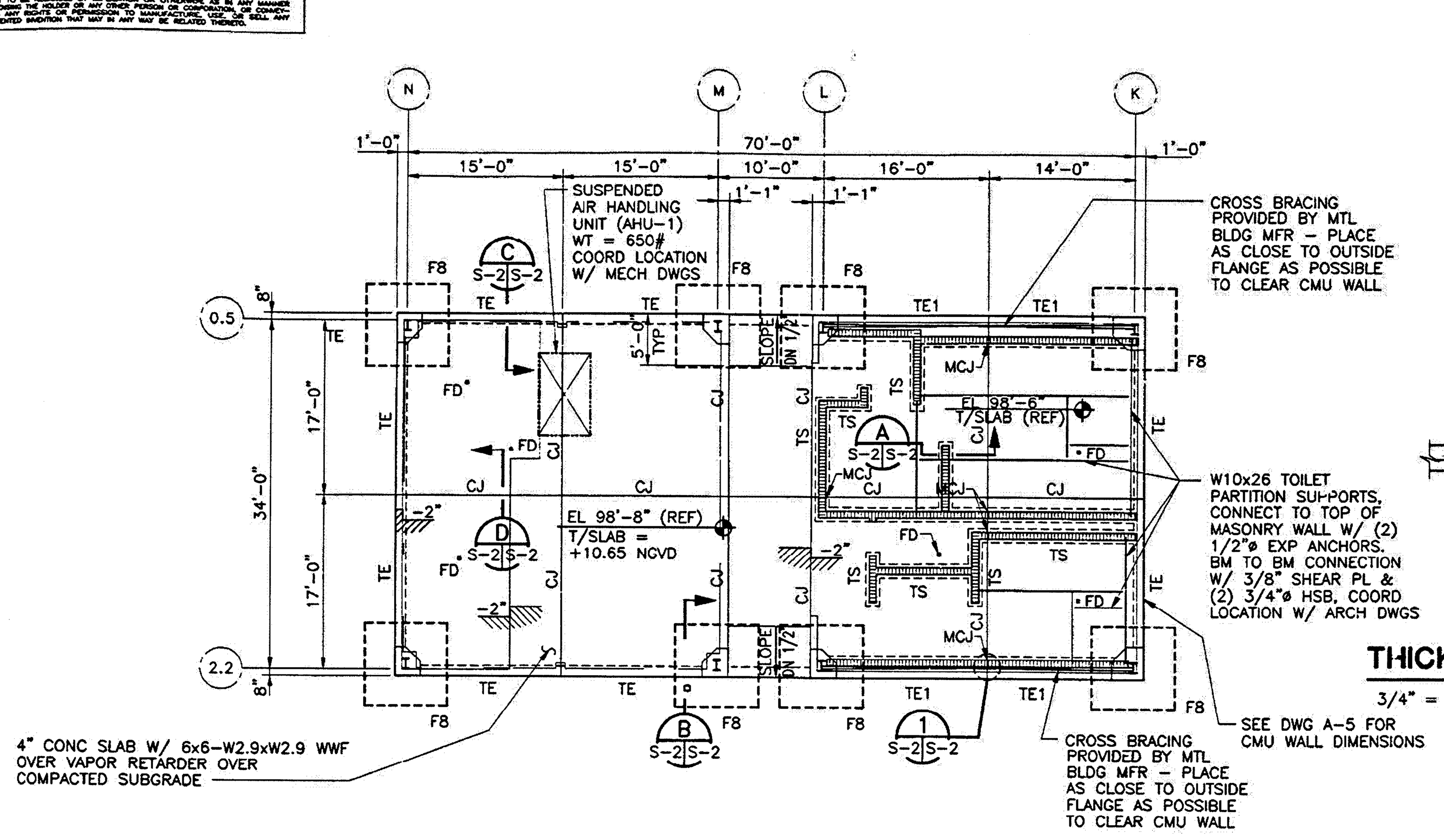
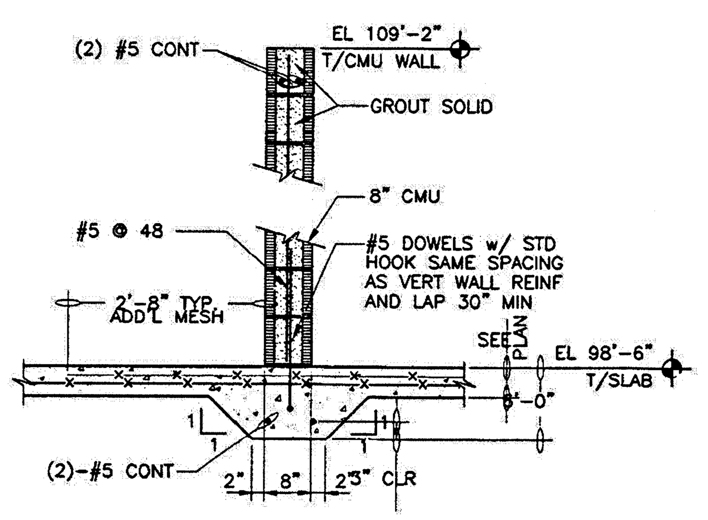
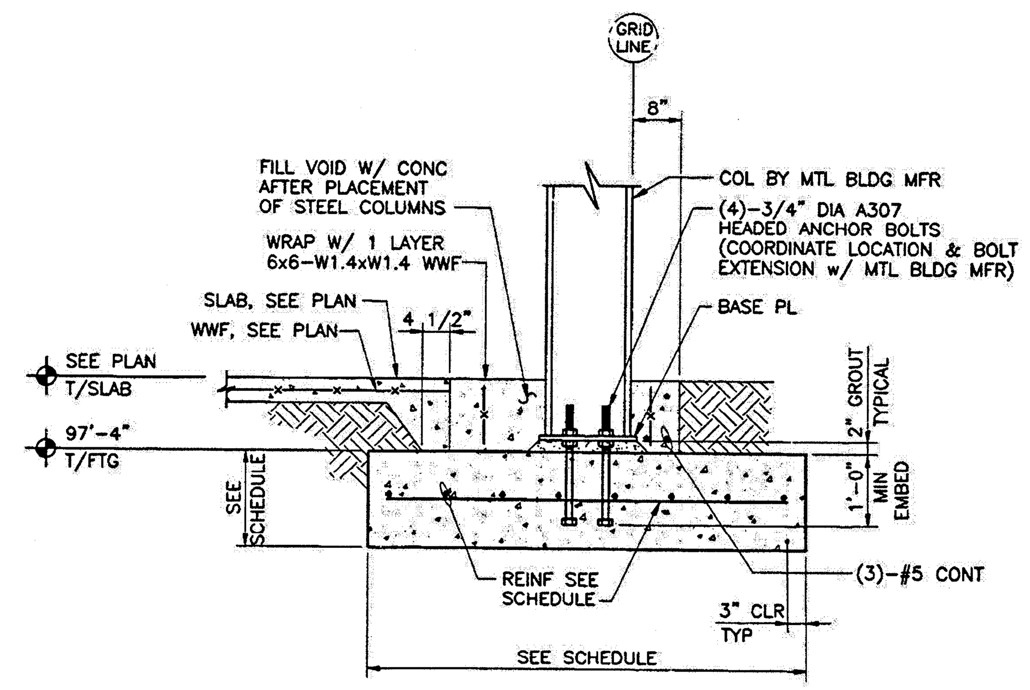


CONCESSION BUILDING FOUNDATION & SLAB PLAN
1/8" = 1'-0" COORDINATE THICKENED SLAB (TS) LOCATIONS WITH ARCH DWG'S



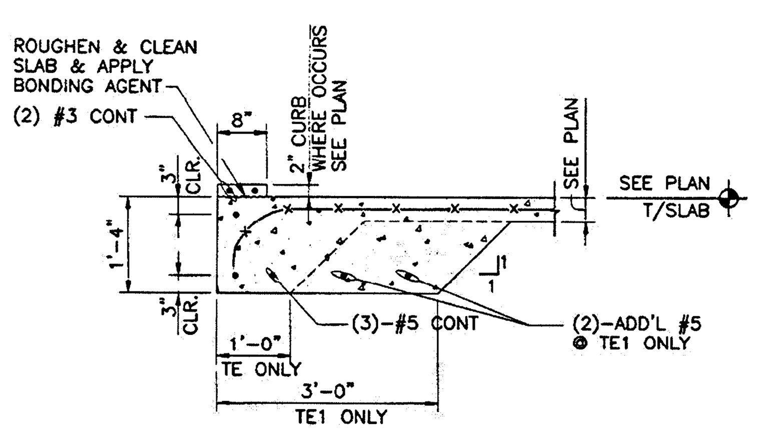
THICKENED SLAB (TS) AND 8" CMU WALL
3/4" = 1'-0" (A, S-2|S-2)



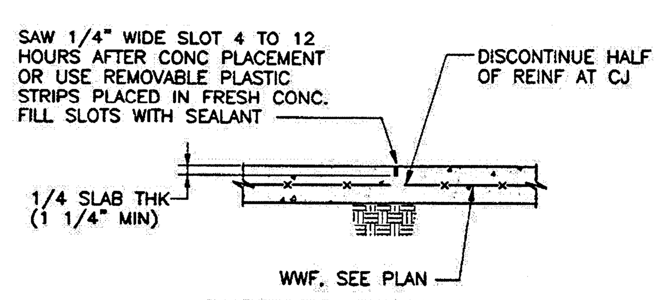
COLUMN FOOTING (FX)
3/4" = 1'-0" (B, S-2|S-2)

CONCESSION BLDG FOOTING SCHEDULE

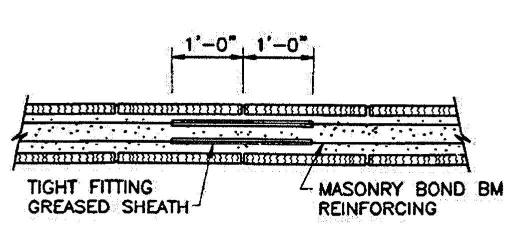
MARK	WIDTH x LENGTH	DEPTH "T"	REINFORCING	ELEV T/FTG(UON)	DESIGN REACTIONS (KIPS) DL + WL HORIZ	DL + WL VERT	DL + LL HORIZ	DL + LL VERT	REMARKS
F8	8'-0" x 8'-0"	1'-6"	(9)-#6 EW M	97'-4"	8	20	7	-20	EW = EACH WAY M = MID-DEPTH



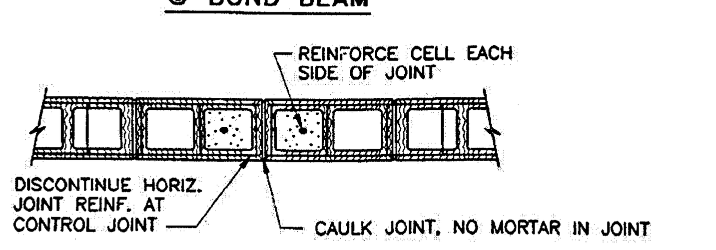
TYP THICKENED SLAB EDGE (TE)
3/4" = 1'-0" (C, S-2|S-2)



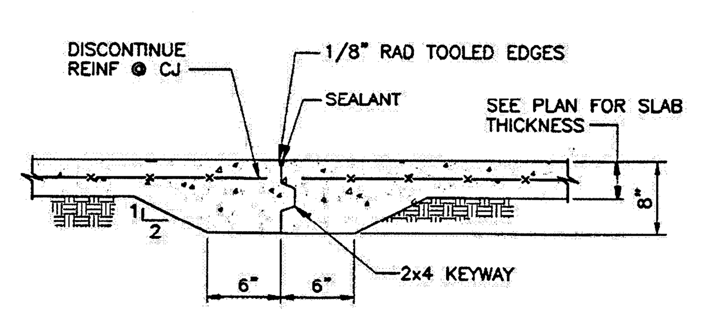
CONTROL JOINT (CJ)



@ BOND BEAM



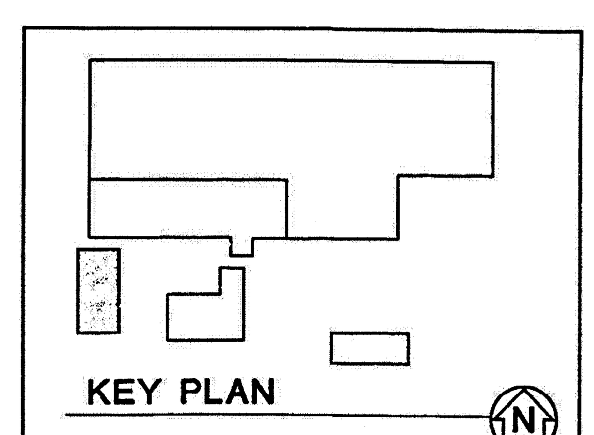
MASONRY CONTROL JOINT DETAIL (MCJ)
NTS (1, S-2|S-2)



KEYED CONSTRUCTION / CONTROL JOINT (CJ)

CONTRACTORS' OPTION UNLESS OTHERWISE NOTED ON PLAN

SLAB CONTROL JOINT DETAIL (CJ)
3/4" = 1'-0" (D, S-2|S-2)



KEY PLAN

NOTES:

1. COORDINATE ALL WALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS. (INCLUDING NOM WALL THICKNESS)
2. FIN GROUND FLOOR EL = 100'-0" (TYPICAL UNLESS NOTED OTHERWISE)
3. ELEVATIONS T/ FOOTING SEE SCHEDULE.

0 6" 1' 2' 3' 4' — 3/4"=1'-0"

0 4' 8' 16' 24' — 1/8" = 1'-0"

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S-2

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CONCESSION BLDG FOUNDATION PLAN
SECTIONS AND DETAILS

FILE NO. 3702.03.5 | SIZE F | DWG.NO. 79K34410 | REV A
PROJ.NO. PCN 96837.05 | SHEET 25 OF 32

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CLOSE/DEMOLISH FACILITIES AND STRUCTURES, VARIOUS LOCATIONS, PACKAGE 1

BUILDING M7-0459 AS-BUILTS

D61

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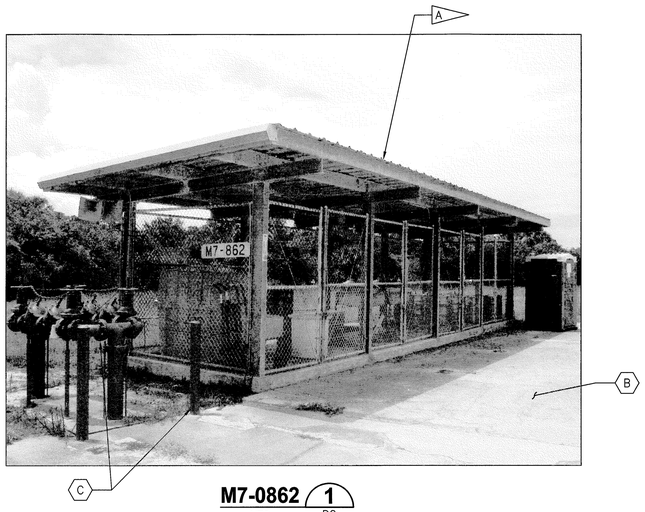
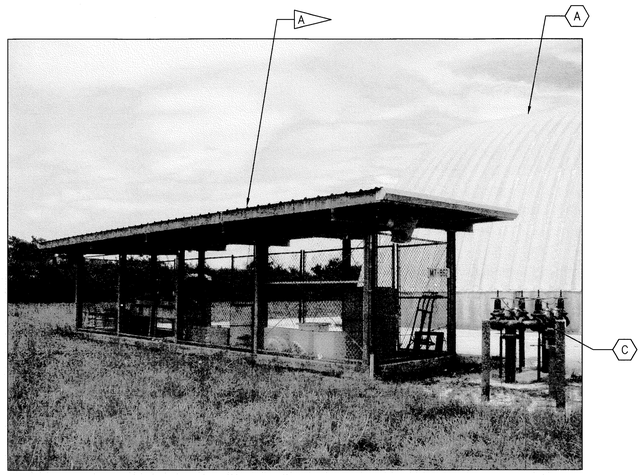


M7-0862 (1) D2
NTS



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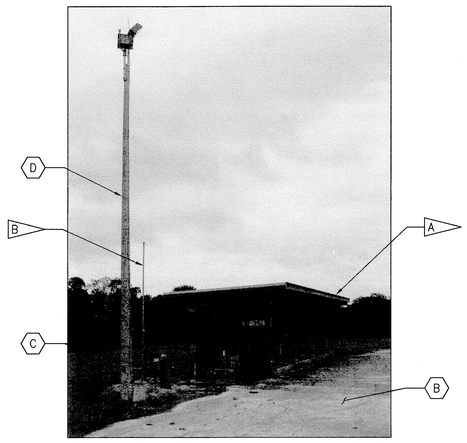

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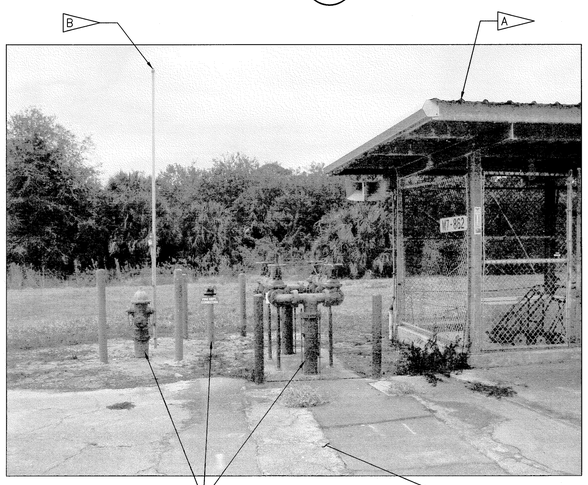
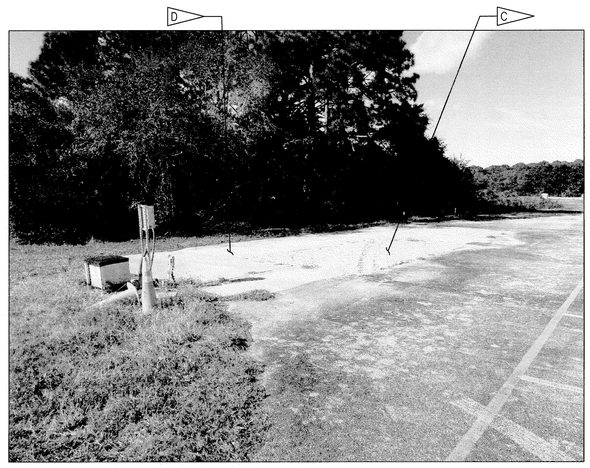
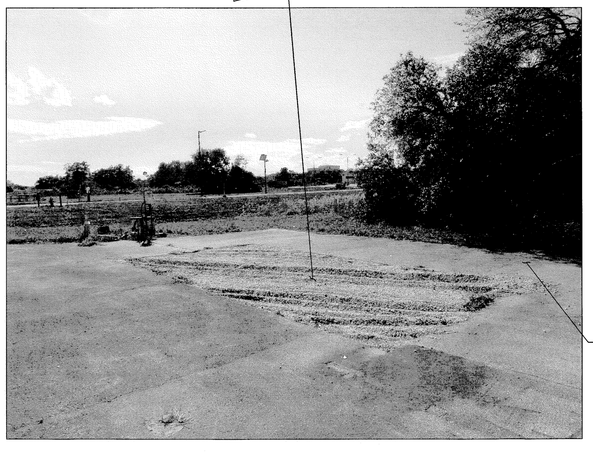


M7-0862 (4) D2
NTS

FIRE SERVICE PIPING NEAR M7-0862 (5) D2
NTS



M7-1012 (6) D6
NTS



M7-1012 (7) D6
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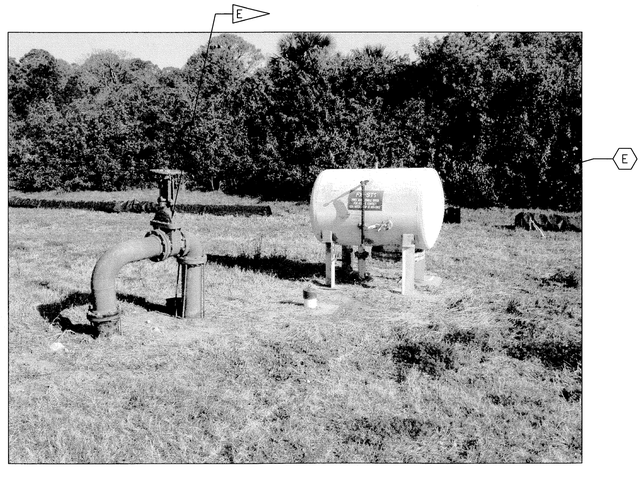

SURGE TANK AND VALVES NORTH OF M7-0961 (8) D5
NTS

FLAG NOTES

- (A) DEMOLISH HAZARDOUS WASTE STAGING SHELTER (M7-0862), FOUNDATION, AND ASSOCIATED APPURTENANCES
- (B) DEMOLISH METAL POLE AND ASSOCIATED APPURTENANCES
- (C) DEMOLISH HMF MIX CRIB (M7-1012) FOUNDATION, GRAVEL LANDSCAPING, AND ASSOCIATED APPURTENANCES
- (D) DEMOLISH ASPHALT AND CONCRETE PAVEMENT. SAWCUT EDGES OF PAVEMENT TO REMAIN.
- (E) DEMOLISH ABOVE GRADE FIRE SERVICE VALVE, PIPING, AND ASSOCIATED APPURTENANCES

TO REMAIN

- (A) BUILDING M7-0912
- (B) ASPHALT/CONCRETE PAVEMENT
- (C) FIRE DEPARTMENT CONNECTION, HYDRANT, BOLLARDS, VALVES, BACKFLOW PREVENTERS, FIRE MAIN PIPING, AND ASSOCIATED APPURTENANCES
- (D) CONCRETE LIGHT POLE
- (E) WATER SURGE TANK ON CONCRETE PAD

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CHECKED K. RIVERA	06/10/13
SUBMITTED L. BELL	06/10/13
ST of LICENSURE: FL LICENSE NO: 69033	06/10/13
APPROVED D. TOTH	6/13/13
L. OTERO	6/13/13

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CLOSE/DEMOLISH FACILITIES AND STRUCTURES, VARIOUS LOCATIONS, PACKAGE 1

M7-0862, M7-0961 & M7-1012 PHOTOS

FILE NO.	SIZE	DWG. NO.	REV
	F	79K39389	
PROJ. NO. 97963.9		SHEET 69	

D62

FILE: \\Titusmd01\prothrg\14000 Nasa\212-01_Design-Close-Demo-Var-Facs-FY13&14\Contract Drawings\Package 1\Dwgs\14000212P1-D62.dwg PRINTED: 6/10/2013 2:20 PM, BY USER: Kristian Perez LAST MODIFIED: 5/9/2013 3:01 PM, BY USER: Coffey

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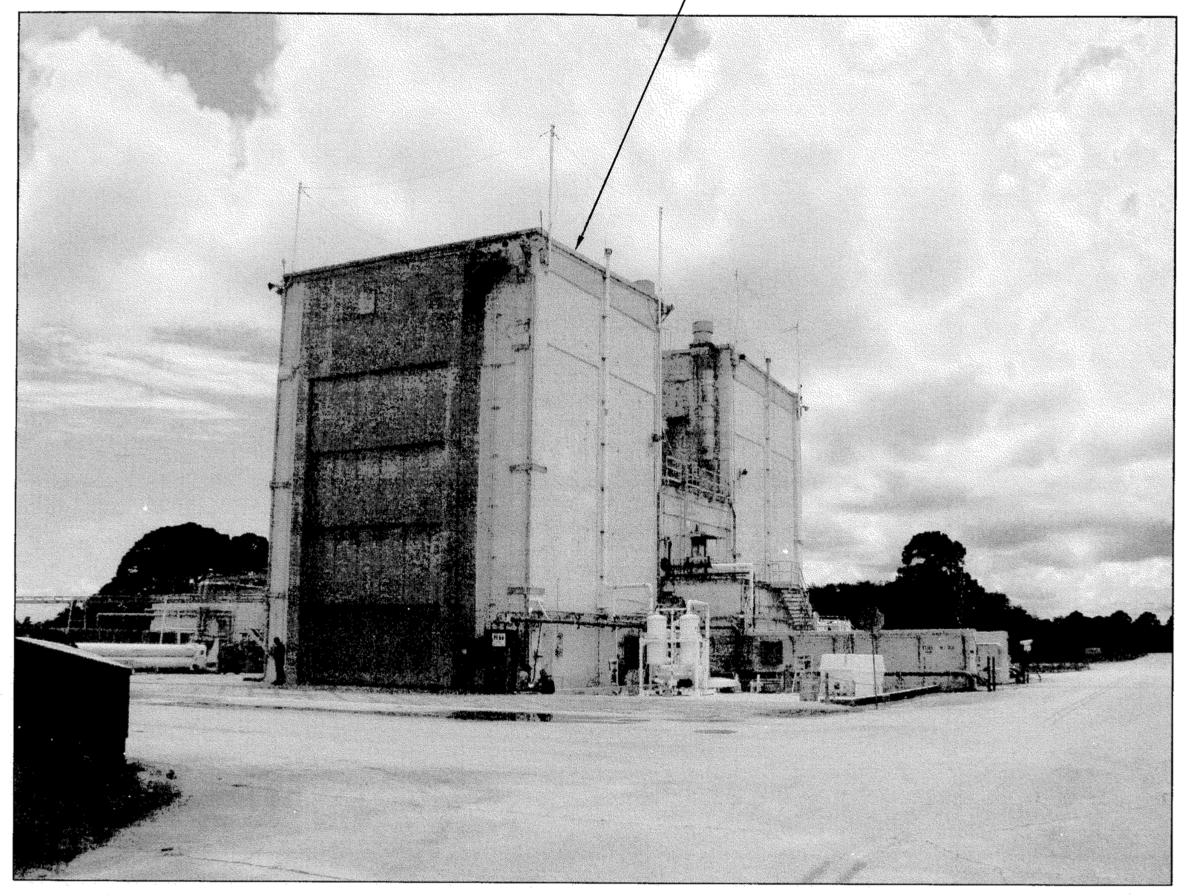
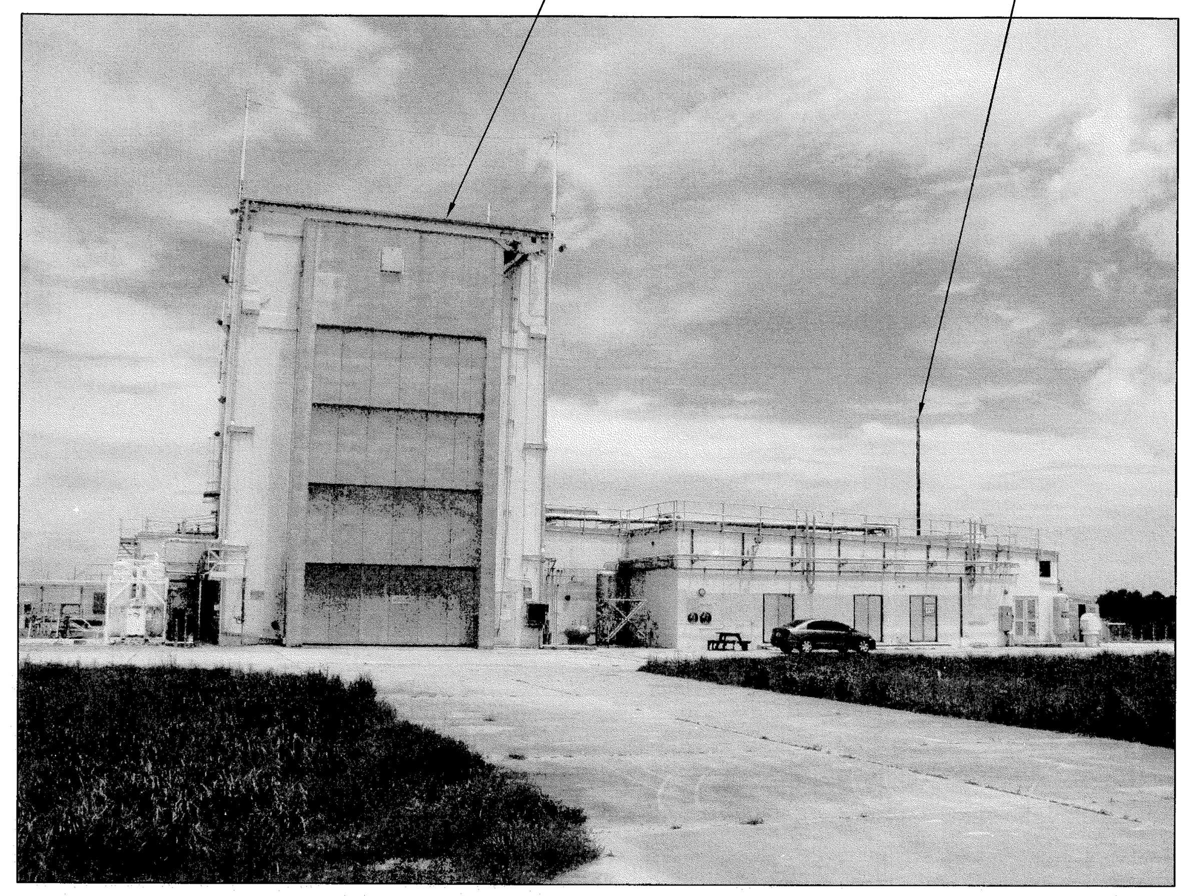


M7-0961 (1) D3
NTS



M7-0961 (2) D3
NTS

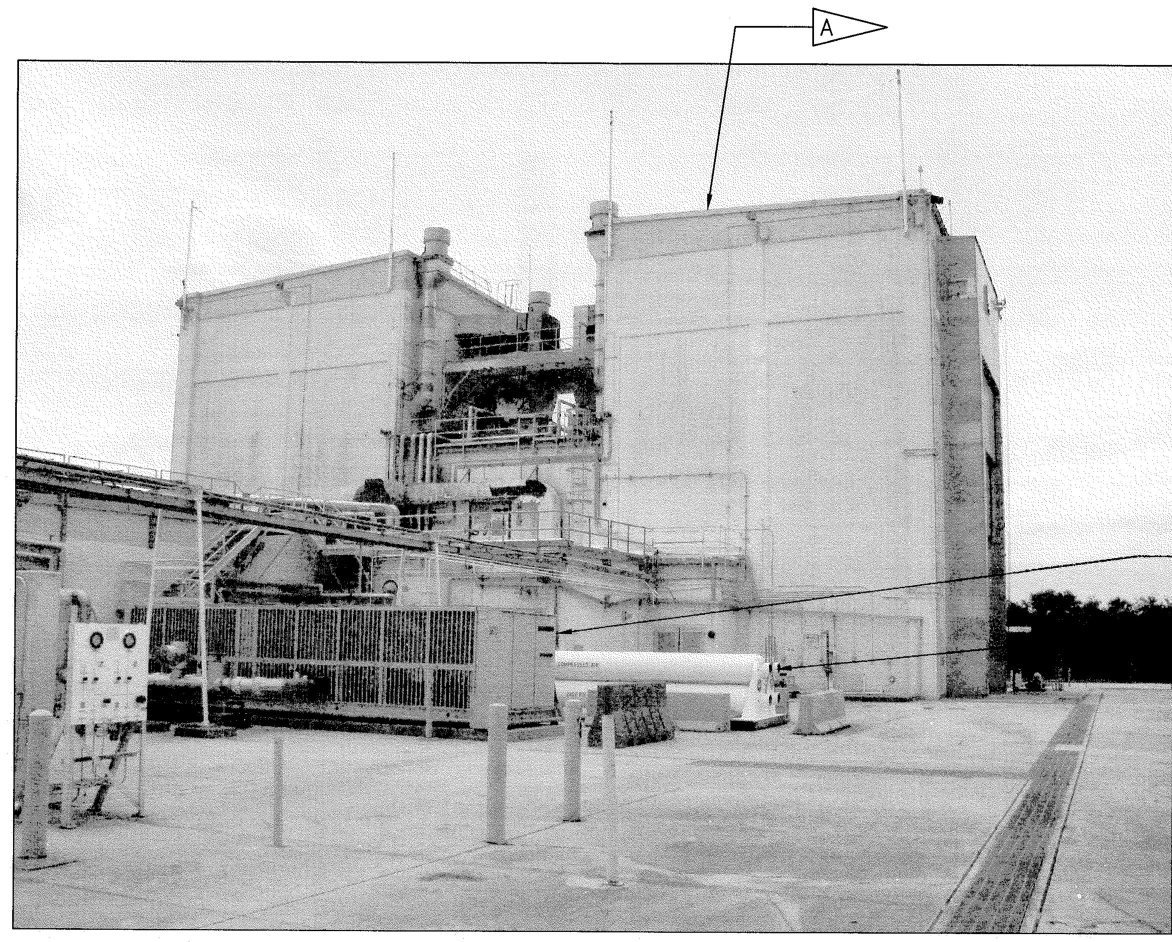
M7-0961 (3) D3
NTS

FLAG NOTES

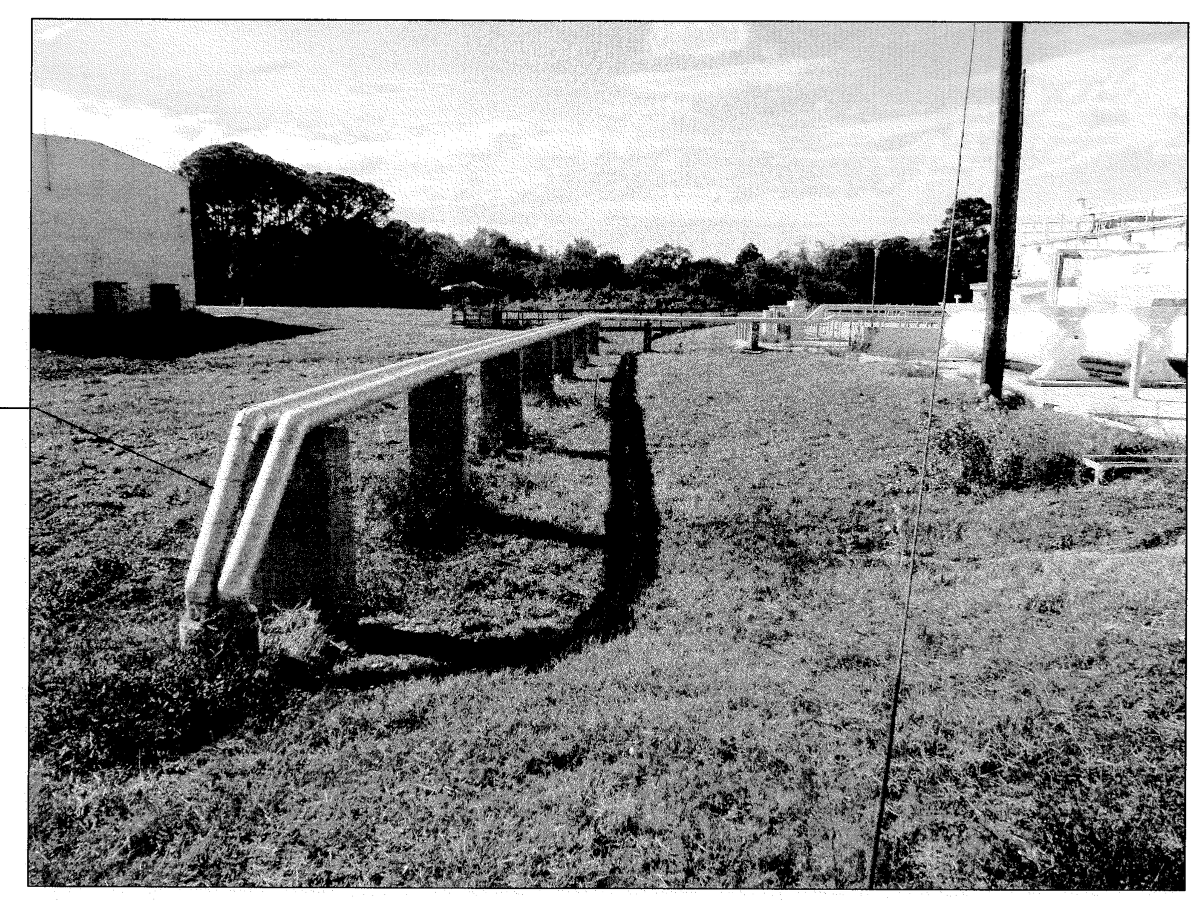
- A — DEMOLISH HYPERGOL MODULE PROCESSING BUILDING, NORTH (M7-0961), FOUNDATION, CONCRETE SLABS, AND ASSOCIATED APPURTENANCES
- B — DEMOLISH COMPRESSED AIR TANKS, CONCRETE PADS, AND ASSOCIATED APPURTENANCES
- C — DEMOLISH GAS TANKS, CONCRETE WALL, CABLE TRAY, AND ASSOCIATED APPURTENANCES
- D — DEMOLISH WOOD BRIDGE
- E — DEMOLISH HVAC EQUIPMENT, PIPING, AND CONCRETE PADS
- F — DEMOLISH BOLLARDS AND ASSOCIATED APPURTENANCES
- G — DEMOLISH LIGHTNING PROTECTION TOWERS AND ASSOCIATED APPURTENANCES
- H — DEMOLISH WINDSOCK, GROUND SPOT LIGHT, AND ASSOCIATED APPURTENANCES
- J — DEMOLISH HIGH TEMPERATURE HOT WATER LINES, HIGH TEMPERATURE HOT WATER MANHOLES, CONCRETE PIPE SUPPORTS, ANCHORS, AND ASSOCIATED APPURTENANCES.
- K — DEMOLISH ASPHALT PAVEMENT, CURBING, CONCRETE FLUMES, AND CONCRETE PAVEMENT. SAWCUT EDGES OF PAVEMENT TO REMAIN.

TO REMAIN

- (A) CONCRETE SIDEWALK
- (B) GAZEBO



M7-0961 (4) D3
NTS



HIGH TEMPERATURE HOT WATER LINES (5) D5
NTS

PAVEMENT (6) D4
NTS

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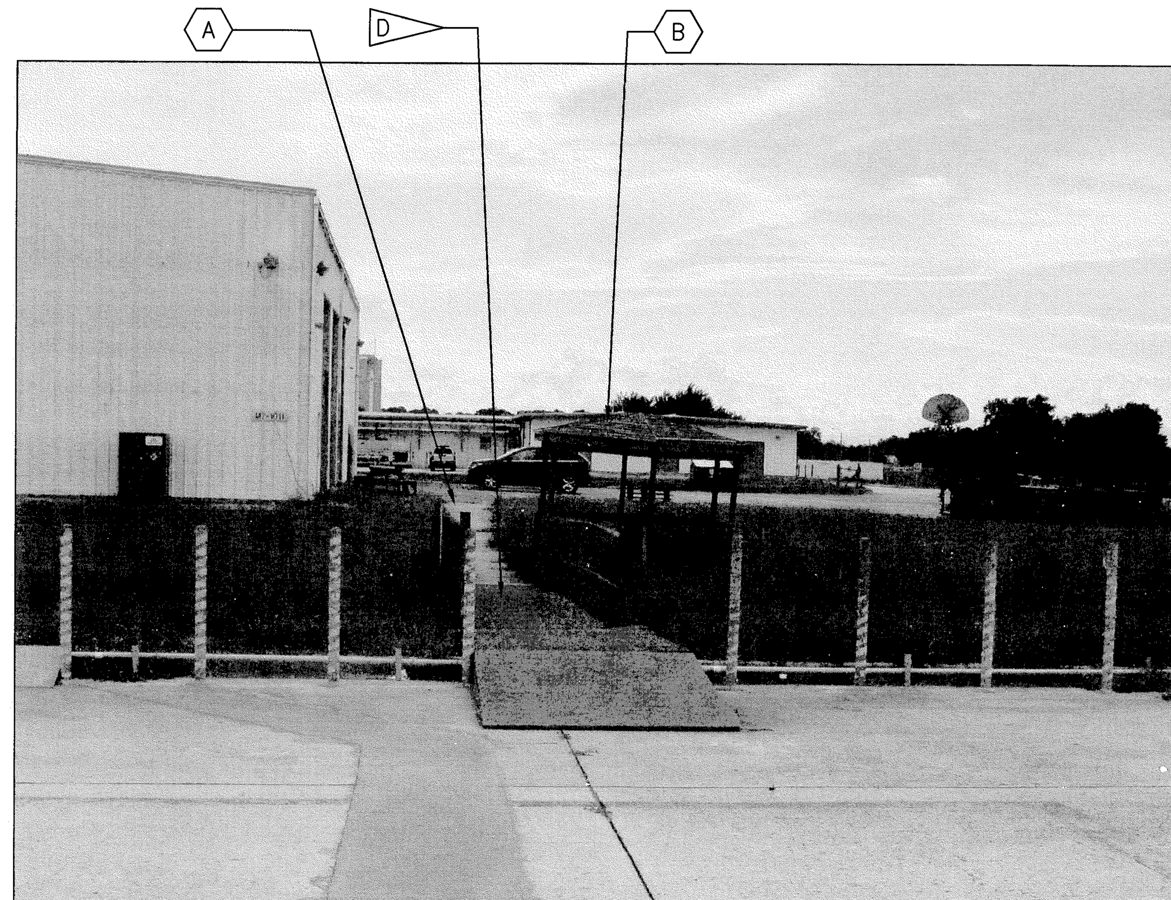
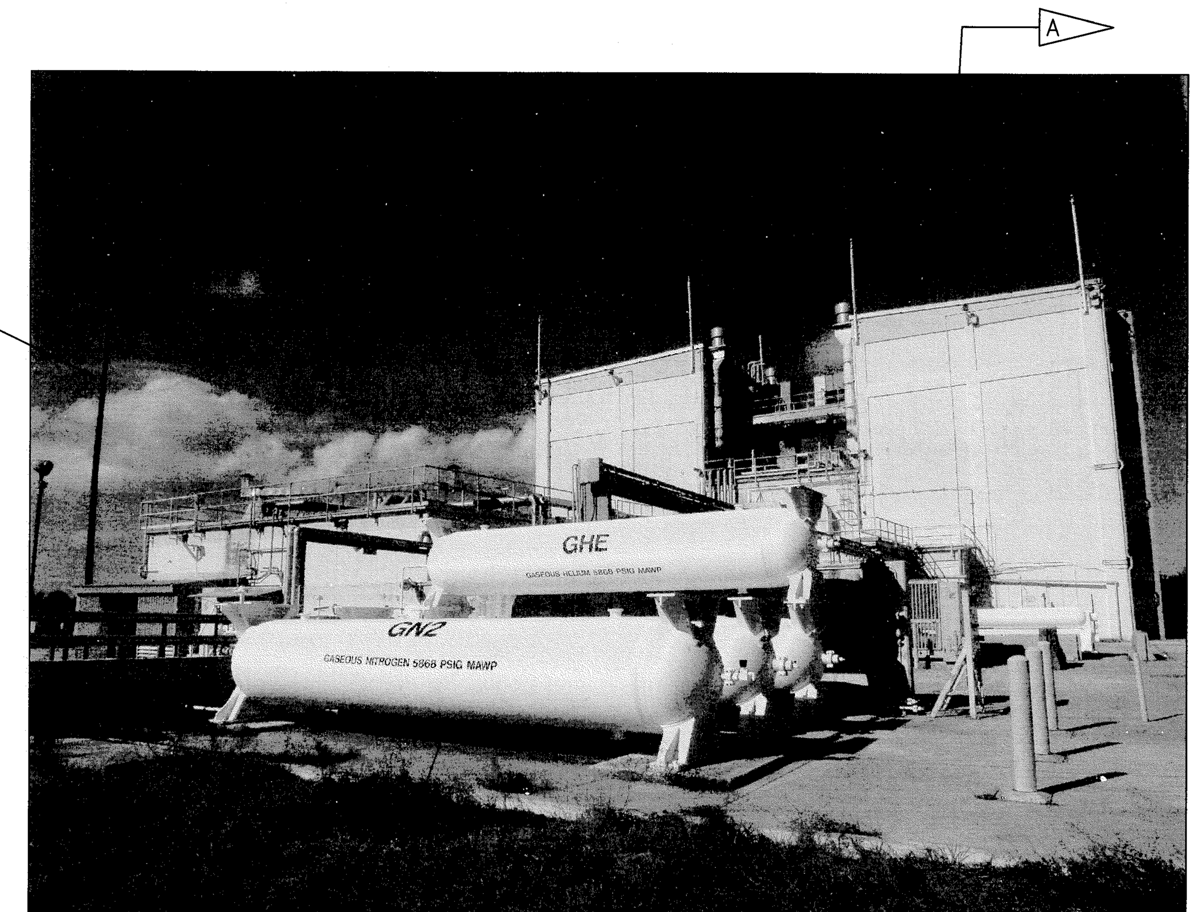
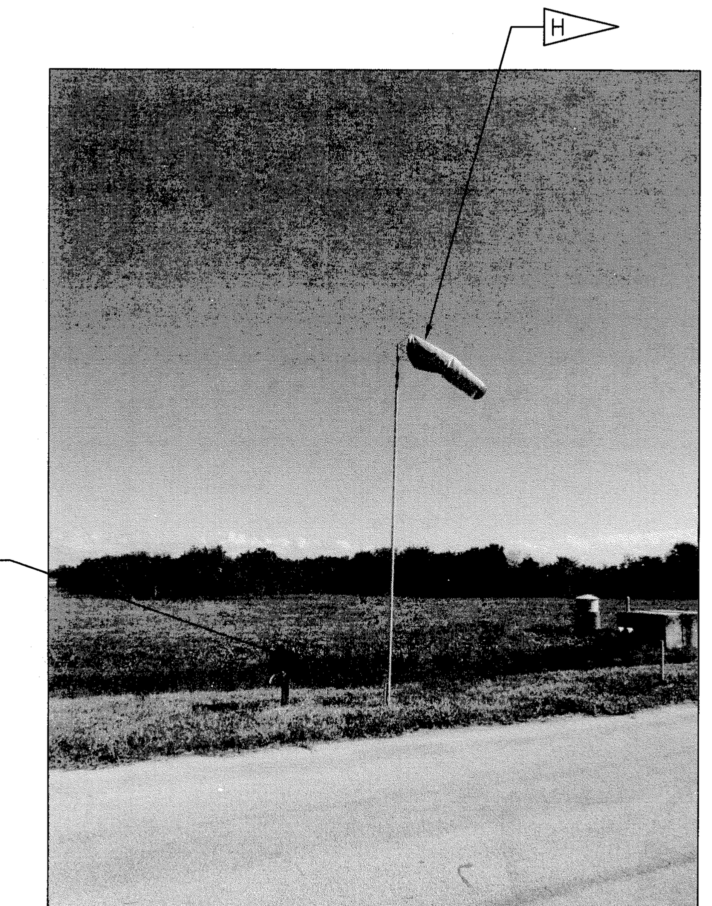


BRIDGE, GAZEBO, AND SIDEWALK (7) D3
NTS



GAS TANKS (8) D3
NTS



WINDSOCK AND SPOTLIGHT (9) D3
NTS

SYM	ZONE	DESCRIPTION	DATE	APPROVED

REVISIONS

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APPROVED D. TOTH	6/10/13
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CLOSE/DEMOLISH FACILITIES AND STRUCTURES, VARIOUS LOCATIONS, PACKAGE 1

BUILDING M7-0961 PHOTOS

FILE NO.	SIZE	DWG. NO.	REV
	F	79K39389	

PROJ. NO. 97963.9 — SHEET 70

D63

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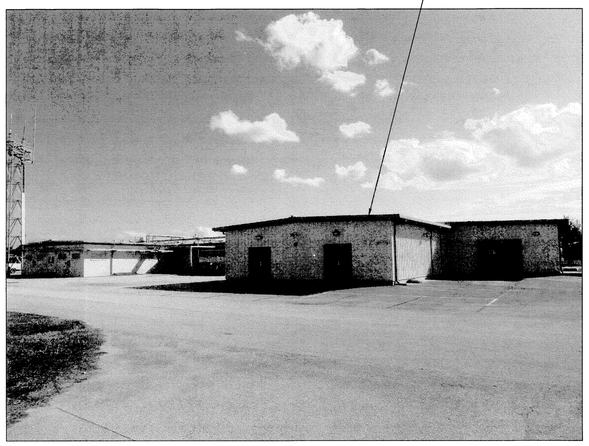
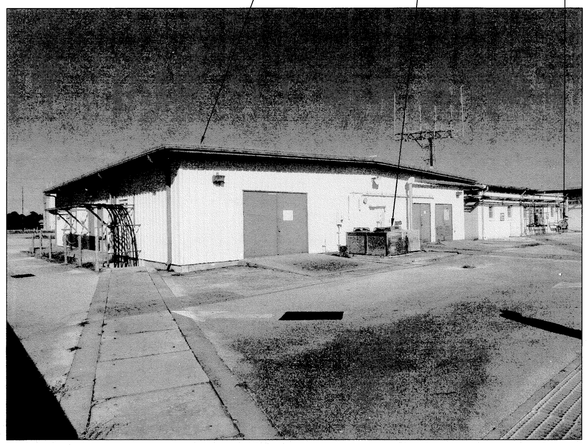
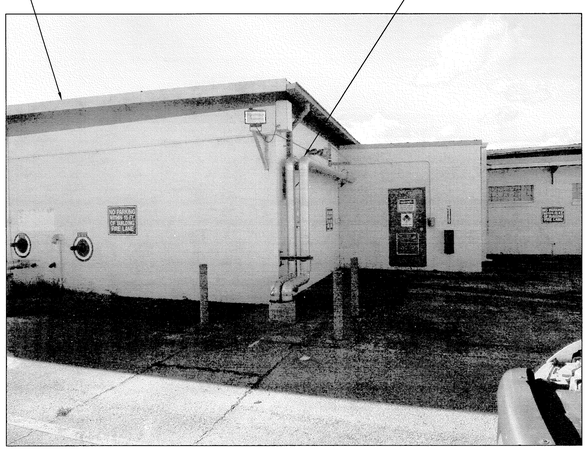


M7-1061 1 NTS D8

M7-1061 2 NTS D8



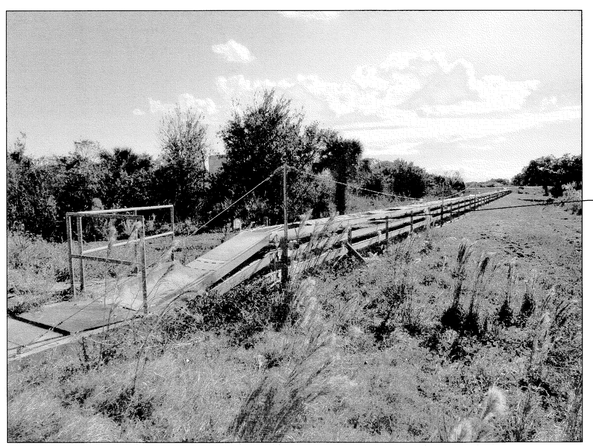
M7-1061 3 NTS D8



HIGH TEMPERATURE HOT WATER LINES 4 NTS D8,D10

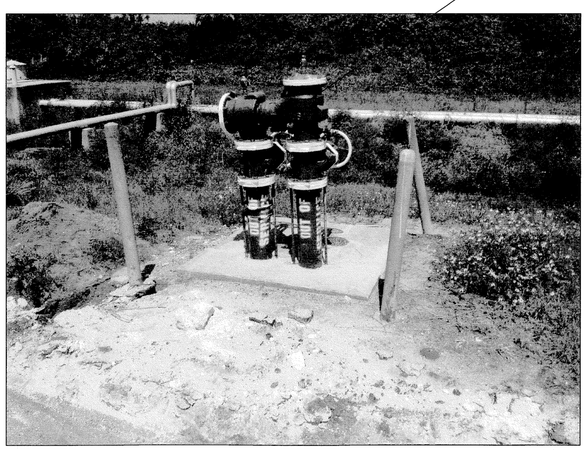
WOOD BRIDGE 5 NTS D8

CABLE TRAY 6 NTS D8,D11,D12



CABLE TRAY 7 NTS D8,D11

CABLE TRAY 8 NTS D8,D11,D13



FIRE SERVICE PIPING 9 NTS D10

FLAG NOTES

- A — DEMOLISH HYPERGOL SUPPORT BUILDING (M7-1061), FOUNDATION, CONCRETE SLABS, AND ASSOCIATED APPURTENANCES
- B — DEMOLISH HVAC EQUIPMENT, PIPING, CONCRETE PADS, AND ASSOCIATED APPURTENANCES
- C — DEMOLISH MOTOR, CONCRETE PAD, PIPING, AND ASSOCIATED APPURTENANCES
- D — DEMOLISH ABOVE GROUND CABLE TRAY AND ASSOCIATED APPURTENANCES
- E — DEMOLISH WOOD BRIDGE AND ASSOCIATED APPURTENANCES
- F — DEMOLISH HIGH TEMPERATURE HOT WATER LINES AND ASSOCIATED APPURTENANCES
- G — DEMOLISH CONCRETE PAD
- H — DEMOLISH FIRE SERVICE PIPING, VALVES, CONCRETE PAD, BOLLARDS, AND ASSOCIATED APPURTENANCES

TO REMAIN

- (A) — COMMUNICATIONS MANHOLE AND CONRETE STRUCTURE

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APPROVED D. TOTH	6/10/13
I. OTERO	6/10/13

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CLOSE/DEMOLISH FACILITIES AND STRUCTURES, VARIOUS LOCATIONS, PACKAGE 1

BUILDING M7-1061 PHOTOS

FILE NO.	SIZE	DWG. NO.	REV
	F	79K39389	

PROJ. NO. 97963.9 SHEET 71

D64

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

FILE: \\Iltsunmd01\grafting\14000 Nasa\212-01_Design-Close-Demo-Vol-Focus-FY13&14\Contract Drawings\Package 1\Civil\14000212P1-D64.dwg PRINTED: 6/10/2013 2:21 PM, BY USER: Kristian Perez LAST MODIFIED: 5/14/2013 2:52 PM, BY USER: Coffey

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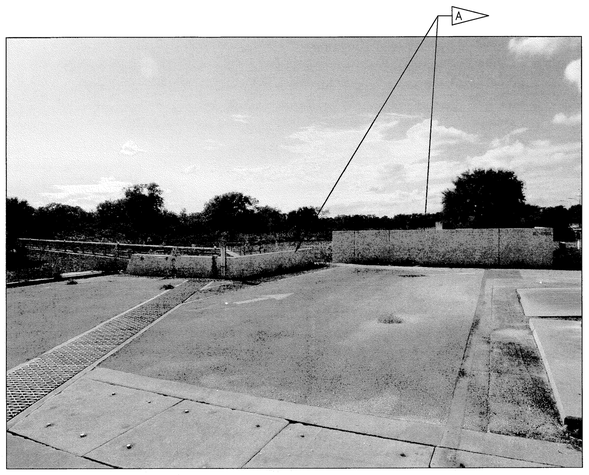
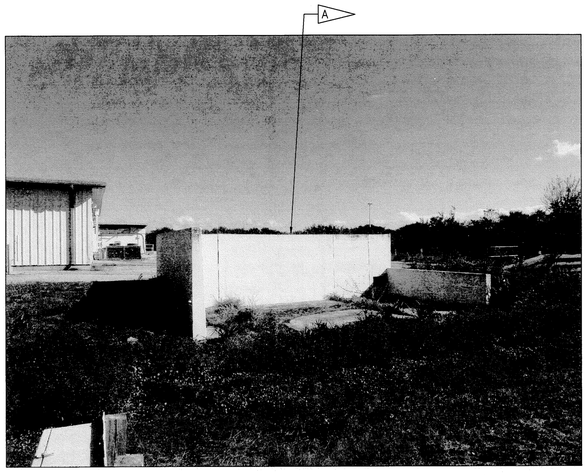
FLAG NOTES

A — DEMOLISH GHE AND GN2 STORAGE (M7-1061A), CONCRETE WALLS, CONCRETE SLABS, AND ASSOCIATED APPURTENANCES

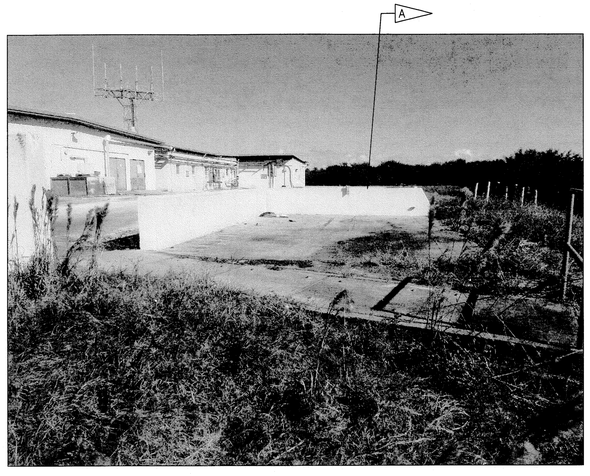
B — DEMOLISH ANTENNA TOWER (M7-1061B), FOUNDATION, CONCRETE SLABS, AND ASSOCIATED APPURTENANCES



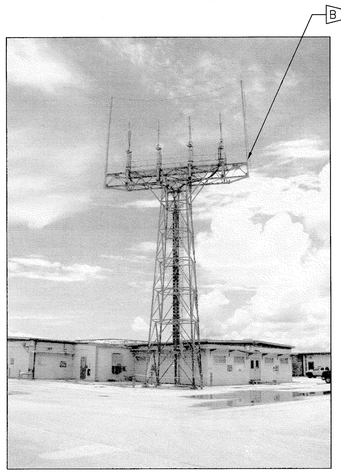
M7-1061A 1 D8
NTS



M7-1061A 2 D8
NTS



M7-1061A 3 D8
NTS



M7-1061B 4 D8
NTS

M7-1061B 5 D8
NTS

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CLOSE/DEMOLISH FACILITIES AND STRUCTURES, VARIOUS LOCATIONS, PACKAGE 1

M7-1061A & M7-1061B PHOTOS

FILE NO.	SIZE	DWG. NO.	REV
	F	79K39389	
PROJ. NO. 97963.9		SHEET 72	

D65

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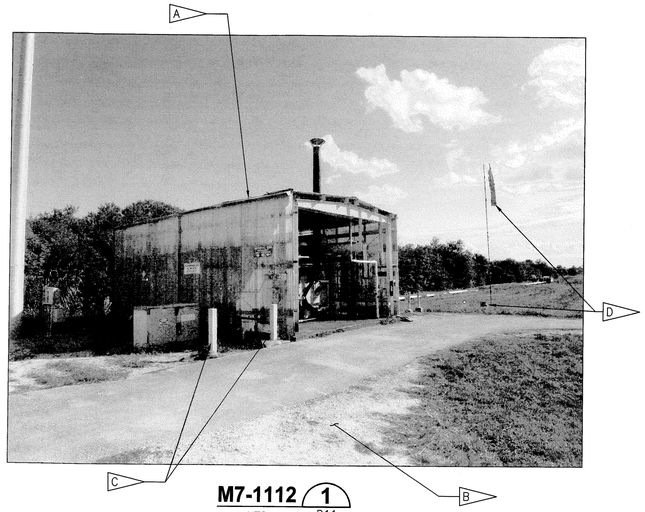
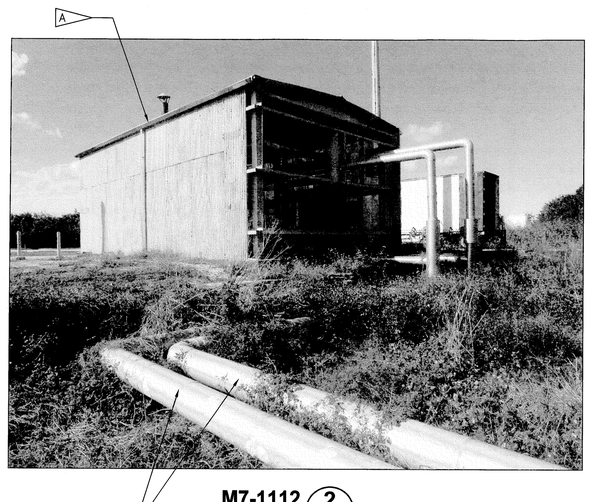
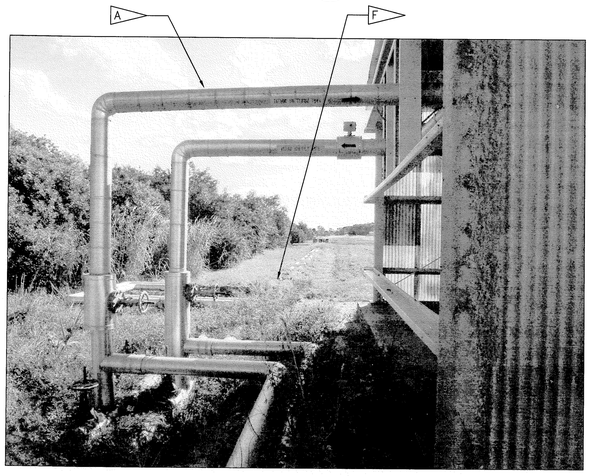


M7-1112 1
NTS D11

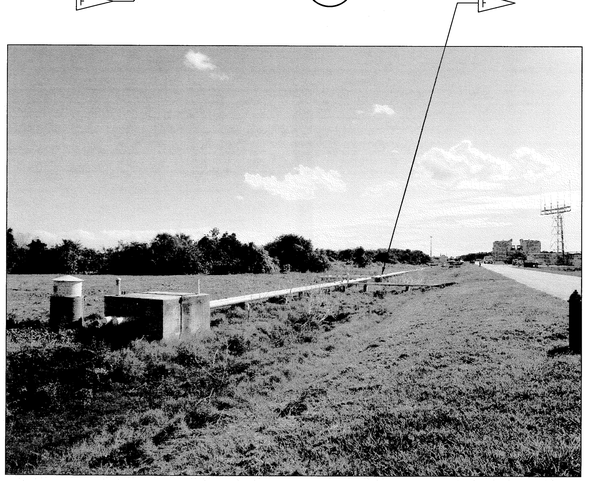


M7-1112 2
NTS D11,D13

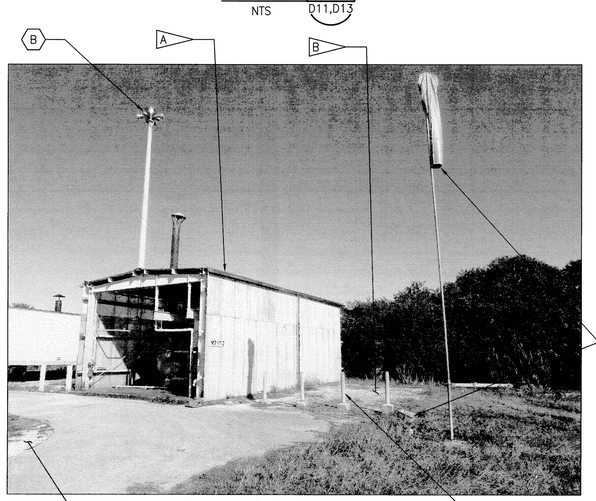
M7-1112 3
NTS D11,D13



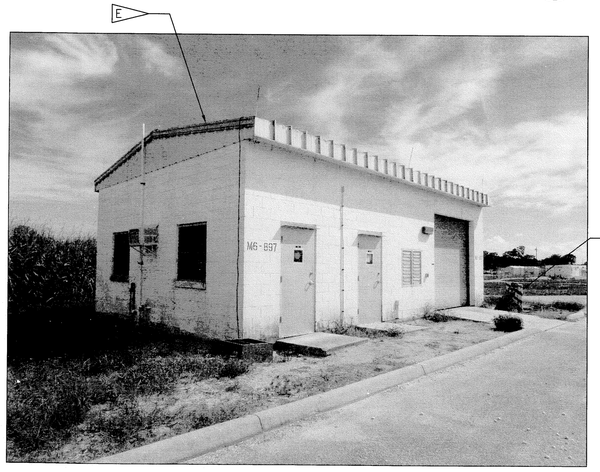
HIGH TEMPERATURE HOT WARER LINES AT M7-1112 4
NTS D11,D13



HIGH TEMPERATURE HOT WATER LINES EAST OF HMF AREA 5
NTS D5,D7,D10,D13



M7-1112 6
NTS D11



M6-0897 7
NTS D14

M6-0897 8
NTS D14

M6-0897 9
NTS D14

FLAG NOTES

- A — DEMOLISH HEATING PLANT (M7-1112), FOUNDATION, CONCRETE SLABS, AND ASSOCIATED APPURTENANCES
- B — DEMOLISH GRAVEL LANDSCAPING
- C — DEMOLISH BOLLARDS AND ASSOCIATED APPURTENANCES
- D — DEMOLISH WINDSOCK, GROUND SPOT LIGHT, AND ASSOCIATED APPURTENANCES
- E — DEMOLISH WASTE WATER TREATMENT FACILITY (M6-0897), FOUNDATION, AND ASSOCIATED APPURTENANCES
- F — DEMOLISH HIGH TEMPERATURE HOT WATER LINES, HIGH TEMPERATURE HOT WATER MANHOLES, CONCRETE PIPE SUPPORTS, ANCHORS, AND ASSOCIATED APPURTENANCES.

TO REMAIN

- A — LIFT STATION
- B — CONCRETE POLE AND SIREN
- C — TRAILER MOUNTED BOILER AND FUEL TANK (TO BE REMOVED BY OTHERS)

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SYM	ZONE	DESCRIPTION	DATE	APPROVED

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CLOSE/DEMOLISH FACILITIES AND STRUCTURES, VARIOUS LOCATIONS, PACKAGE 1

BUILDINGS M7-1112 & M6-0897 PHOTOS

FILE NO.	SIZE	DWG. NO.	REV
	F	79K39389	

PROJ. NO. 97963.9 SHEET 73

D66

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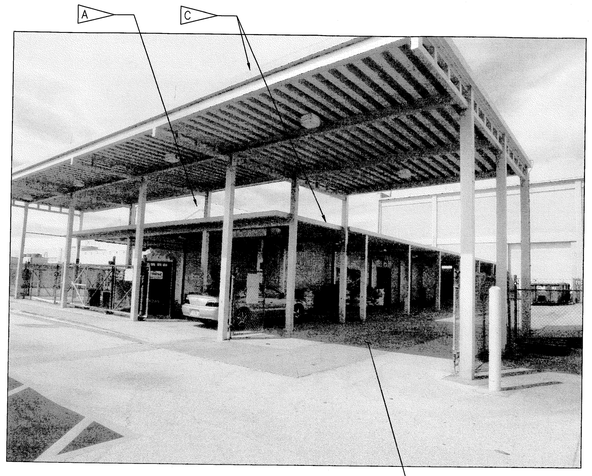
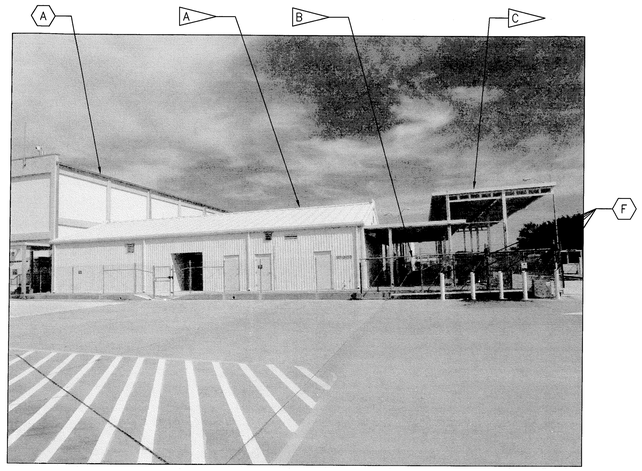


M7-0459 1 NTS D16



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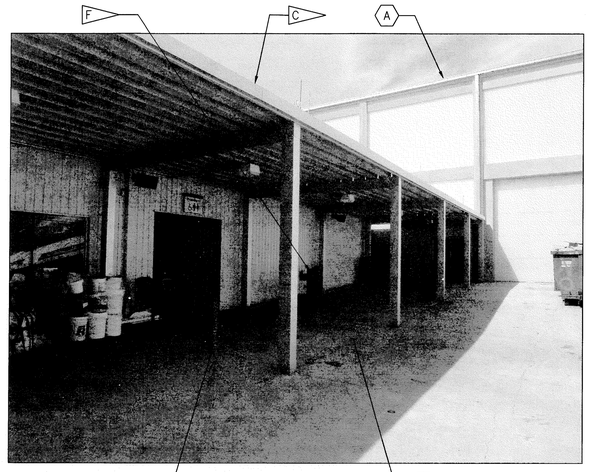

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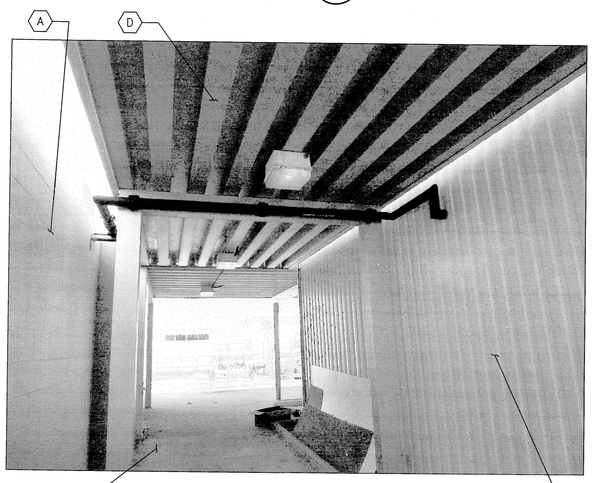
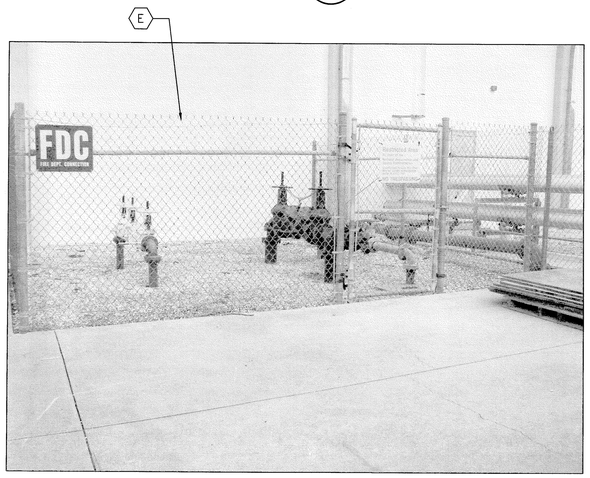
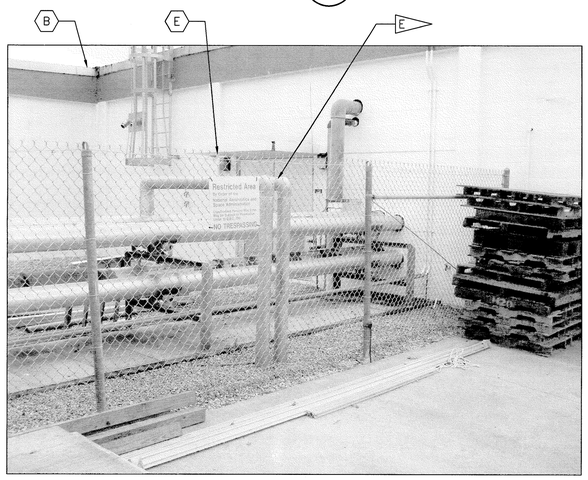


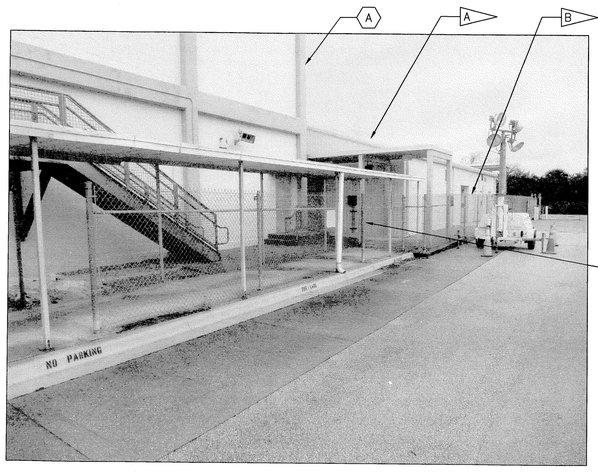
WATER SUPPLY TO M7-0409 4 NTS D16



POTABLE WATER AND FIRE SERVICE PIPING 5 NTS D16



CHILLED WATER LINES 6 NTS D16,D17



FENCING 7 NTS D16

FLAG NOTES

- A — DEMOLISH ISSC CONCESSION BUILDING (M7-0459), FOUNDATION, CONCRETE SLABS, AND ASSOCIATED APPURTENANCES
- B — DEMOLISH CHAIN LINK FENCE, POSTS, FOUNDATIONS, SECURITY GATES, AND ASSOCIATED APPURTENANCES
- C — DEMOLISH ALUMINUM CANOPY, COLUMNS, AND ASSOCIATED APPURTENANCES. DEMOLISH COLUMNS TO 2" BELOW GRADE AND GROUT TO PAVEMENT LEVEL. SEE M7-0459 CANOPY PLAN AND CANOPY COLUMN DRAIN DEMOLITION DETAIL ON SHEET D70. 4 D70, 5 D70
- D — DEMOLISH CHAIN LINK FENCE, POSTS, AND ASSOCIATED APPURTENANCES. CUT FENCE POSTS EVEN TO PAVEMENT SURFACE AND GROUT TO PAVEMENT LEVEL.
- E — DEMOLISH ABOVE GROUND CHILLED WATER SUPPLY AND RETURN LINES SERVICING BUILDING M7-0459. SEE M7-0459 CHILLED WATER LINE DEMOLITION PLAN ON SHEET D70. 2 D70
- F — DEMOLISH DRINKING FOUNTAIN, PIPING, AND ASSOCIATED APPURTENANCES.

TO REMAIN

- A — BUILDING M7-0409
- B — BUILDING M7-0409A
- C — CONCRETE PAVEMENT UNDER ALUMINUM CANOPY
- D — ALUMINUM CANOPY
- E — FENCING
- F — BOLLARDS

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SUBMITTED J. BELL	06/10/13
ST of LICENSURE: FL LICENSE NO: 69033	06/10/13
APPROVED D. TOTH	6/10/13
L. OTERO	6/10/13

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CLOSE/DEMOLISH FACILITIES AND STRUCTURES, VARIOUS LOCATIONS, PACKAGE 1

BUILDING M7-0459 PHOTOS

FILE NO.	SIZE	DWG. NO.	REV
	F	79K39389	
PROJ. NO. 97963.9		SHEET 74	

D67

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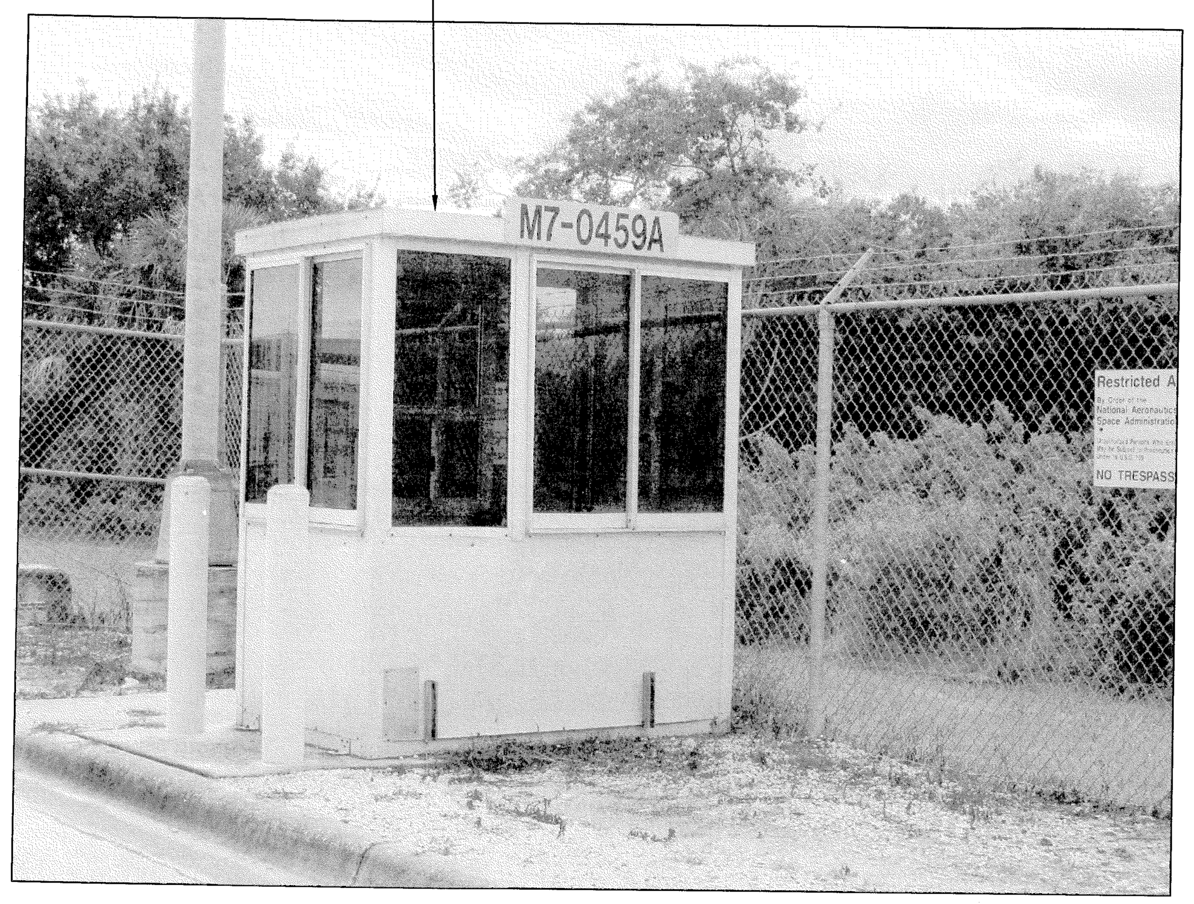
FLAG NOTE

A DEMOLISH GUARD HOUSE (M7-0459A), FOUNDATION, CONCRETE SLABS, BOLLARDS, AND ASSOCIATED APPURTENANCES



M7-0459A 1 / D16
NTS

M7-0459A 2 / D16
NTS

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I. OTERO	JUN 12/13

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CLOSE/DEMOLISH FACILITIES AND STRUCTURES, VARIOUS LOCATIONS, PACKAGE 1

BUILDING M7-0459A PHOTOS

FILE NO.	SIZE	DWG. NO.	REV
	F	79K39389	

PROJ. NO. 97963.9 SHEET 75

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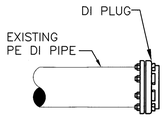
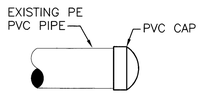


DI PIPE AIP



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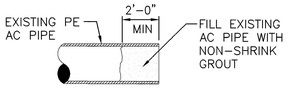

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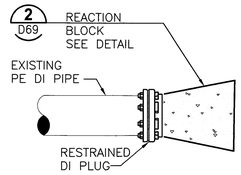

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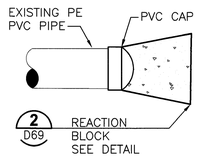

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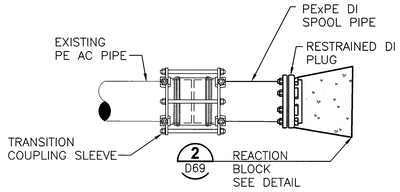
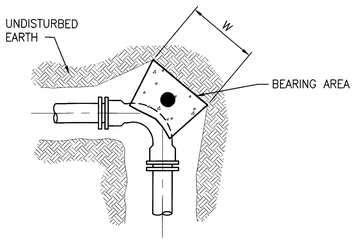
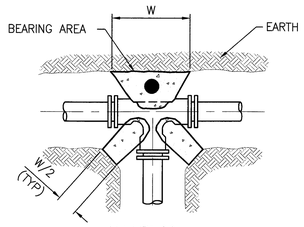


AC PIPE IN SERVICE

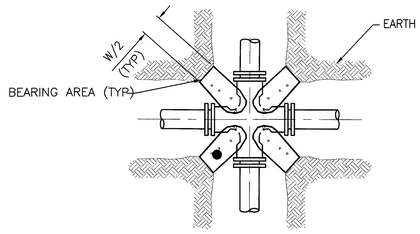
TYPICAL PIPE CAP DETAIL 1
NTS D5,D7,D10,D13,D15,D17



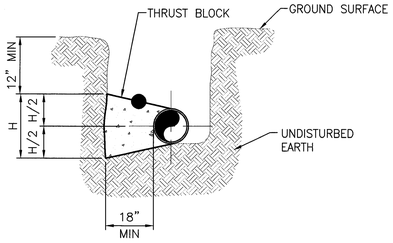
BENDS PLAN



TEE PLAN



CROSS PLAN



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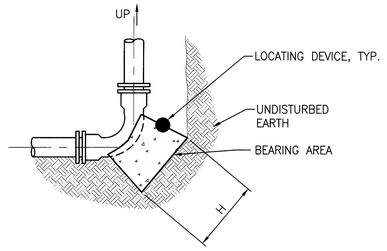

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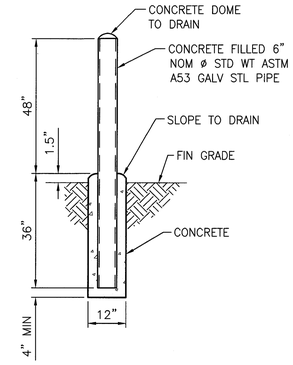


REACTION BLOCK BEARING AREA DIMENSIONS					
FITTING	11 1/4° BEND	22 1/2° BEND	45° BEND	90° BEND	TEE/CROSS/ PLUGS/CAPS
SIZE (in)	H x W (in)	H x W (in)	H x W (in)	H x W (in)	H x W (in)
4	11x11	15x15	20x20	28x28	23x23
6	15x15	21x21	29x29	40x40	33x33
8	20x20	27x27	38x38	52x52	44x44
10	24x24	33x33	47x47	63x63	53x53
12	28x28	40x40	55x55	75x75	63x63
14	33x33	46x46	64x64	87x87	73x73
16	37x37	52x52	73x73	99x99	83x83
18	42x42	58x58	82x82	111x111	93x93
24	55x55	77x77	108x108	146x146	123x123

REACTION BLOCK NOTES

A. BASED ON 150 PSI PRESSURE & 1500 PSF SOIL BEARING VALUE, 2.0 SAFETY FACTOR, WATER TABLE BELOW THE THRUST BLOCK, VERTICAL BLOCK FACE, AND A MINIMUM THICKNESS OF 18 INCHES.

B. BEARING AREAS FOR PLUGS SHALL BE THE SAME AS FOR TEES.

C. FORM REACTION BLOCKS TO KEEP CONCRETE CLEAR OF JOINTS AND BOLTS.

D. REQUIRED REACTION BLOCK BEARING AREA SHALL BE PLACED AGAINST UNDISTURBED MATERIAL. WHERE TRENCH WALL HAS BEEN DISTURBED, EXCAVATE ALL LOOSE MATERIAL AND EXTEND REACTION BLOCK TO UNDISTURBED MATERIAL.

E. PLACE PRESSURE TREATED WOOD BOARDS IN FRONT OF PLUG, AT TEE, CROSS OR END OF PIPE BEFORE POURING CONCRETE REACTION BLOCK.

F. BACKFILL SHALL CONSIST ENTIRELY OF CLEAN SAND AND ROCK FRAGMENTS. ANY MUCK ENCOUNTERED SHALL BE REPLACED WITH BACKFILL COMPACTED TO 95% MODIFIED PROCTOR MAXIMUM DRY DENSITY, ASTM D1557.

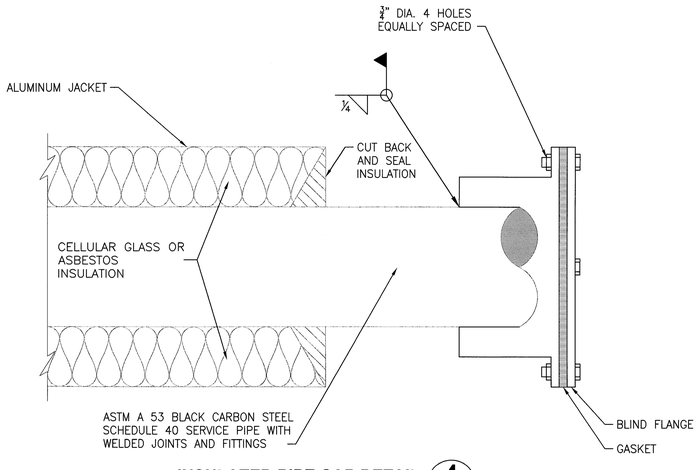
G. CONTRACTOR TO OBTAIN LOCATING DEVICES AND TO EMBED THE DEVICE INTO THE TOP SURFACE ON THE THRUST BLOCK SUCH THAT HALF THE DEVICE IS EXPOSED AND THE LOCATION IS AT THE CENTROID OF THE THRUST BLOCK TOP SURFACE AREA. THE LOCATING DEVICES SHALL BE OMNI MARKER MODEL 161 WATER MARKER OR APPROVED EQUAL.

NOTES:

1. PAINT ALL GALVANIZED PIPING MATERIALS AS FOLLOWS:
2. 2.1 MILS DFT OF GALVANIZING METAL PRIMER, PORTER PAINTS 290 (1 COAT) OR ENGINEER APPROVED EQUIVALENT.
3. 2.8 MILS DFT OF ACRYLIC GLOSS, PORTER PAINTS 619 SERIES (2 COATS) OR ENGINEER APPROVED EQUIVALENT. EACH COAT SHALL HAVE A MINIMUM OF 1.4 MILS DFT. COLOR SHALL BE SAFETY YELLOW.

BOLLARD DETAIL 3
NTS D3

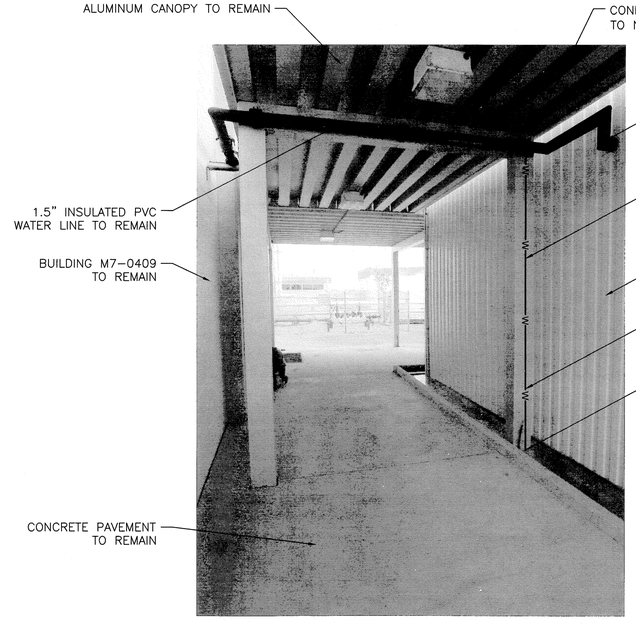
TYPICAL REACTION BLOCK (THRUST BLOCK) DETAILS 2
NTS D69



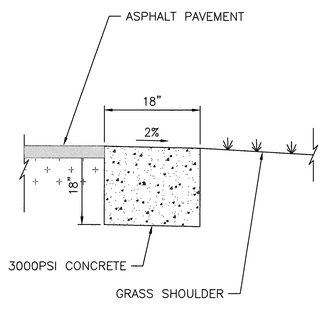
INSULATED PIPE CAP DETAIL 4
NTS D5,D17,D70

NOTES:

1. IN SOME AREAS THE ALUMINUM JACKET CONTAINS A PVC JACKET UNDERNEATH, REFER TO THE AS-BUILT DETAILS FOR MORE INFORMATION.



M7-0459 ENLARGED WATER SERVICE PLAN 5
NTS D17



RIBBON CURB DETAIL 6
NTS D4,D9

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CLOSE/DEMOLISH FACILITIES AND STRUCTURES, VARIOUS LOCATIONS, PACKAGE 1

DETAILS

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PROJ. NO. 97963.9		SHEET 76	

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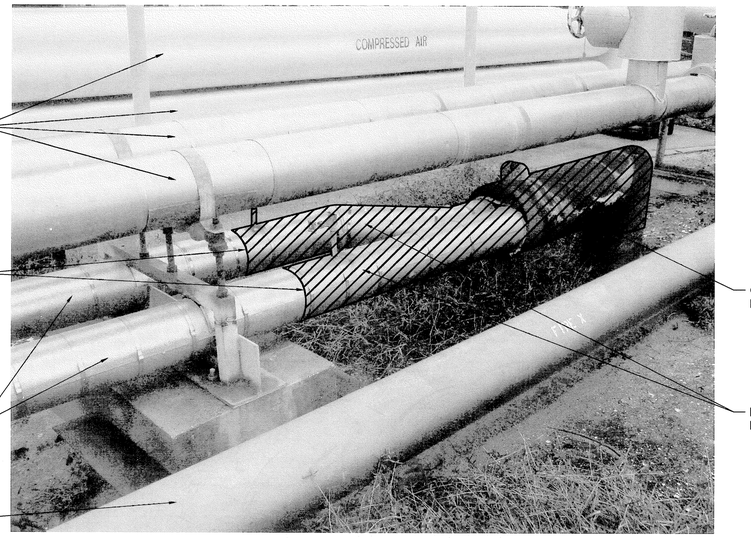
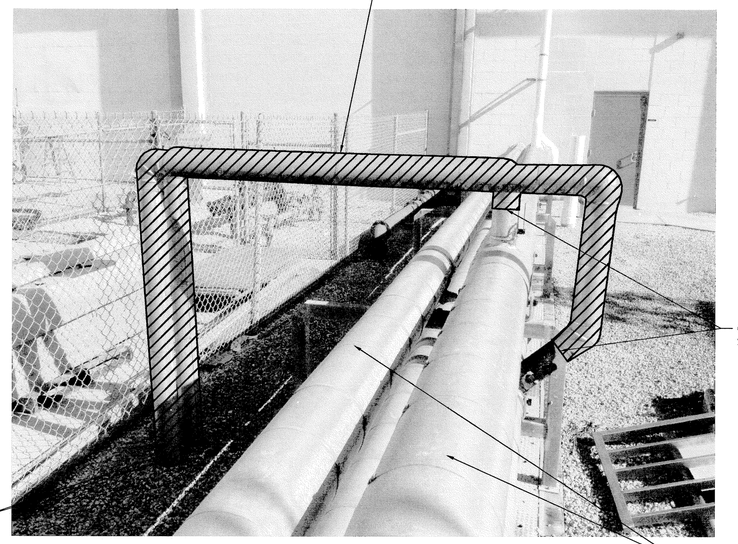
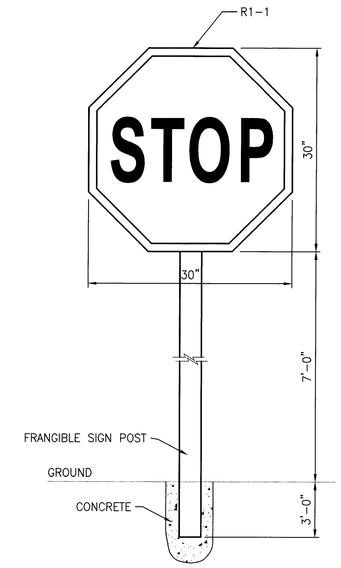


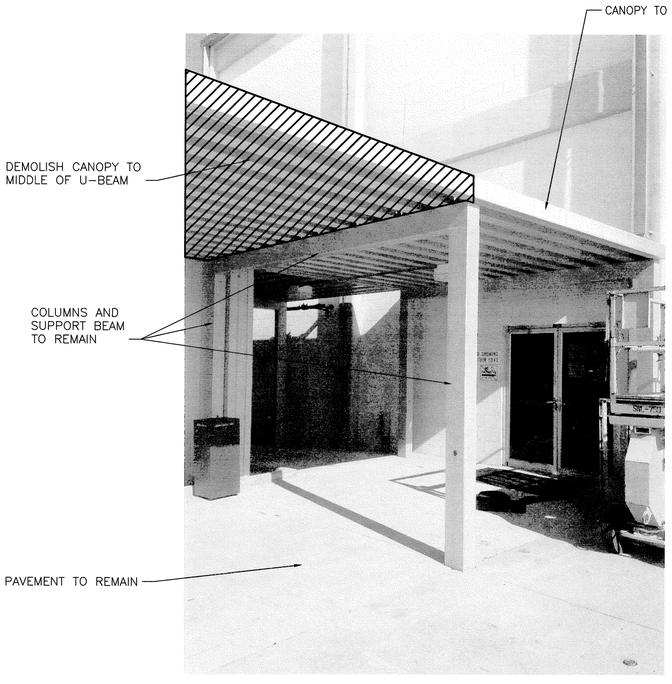
M7-1212 HIGH TEMPERATURE HOT WATER LINE DEMOLITION PLAN 1 D13
NTS

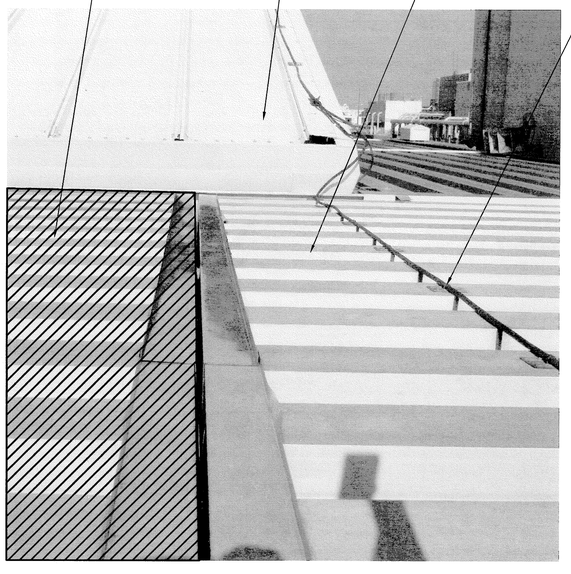


M7-0459 CHILLED WATER LINE DEMOLITION PLAN 2 D17,D67
NTS

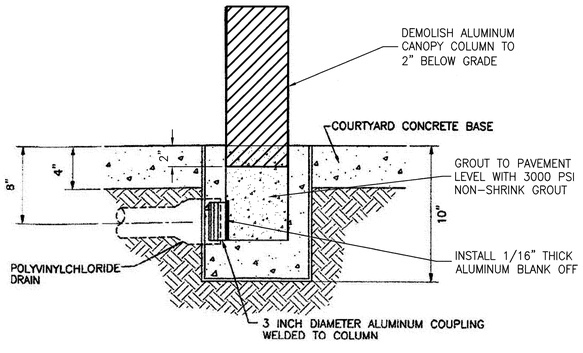


FDOT STOP SIGN DETAIL 3 D4,D9
NTS





M7-0459 CANOPY PLAN 4 D16,D17,D67
NTS



CANOPY COLUMN DRAIN DEMOLITION DETAIL 5 D16,D17,D67
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CLOSE/DEMOLISH FACILITIES AND STRUCTURES, VARIOUS LOCATIONS, PACKAGE 1

DETAILS

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D70

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ELECTRICAL NOTES

1. UTILITY LOCATIONS ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY PHYSICAL LOCATIONS OF ALL EQUIPMENT TO BE DEMOLISHED.
2. THE CONTRACTOR SHALL COORDINATE ALL DEMOLITION ACTIVITIES AND UTILITY DISCONNECTS AND OUTAGES WITH THE CONTRACTING OFFICER PRIOR TO COMMENCING DEMOLITION.
3. CONTRACTOR SHALL LOCK-OUT/TAG-OUT ALL ELECTRICAL EQUIPMENT AND SYSTEMS PRIOR TO DEMOLITION ACTIVITIES, INCLUDING HVAC CONTROLS AND EQUIPMENT.
4. ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH THE LATEST ADOPTED EDITION OF THE NATIONAL ELECTRIC CODE, NEC.
5. UNLESS OTHERWISE NOTED, ALL DEMOLISHED UNDERGROUND CONDUIT SHALL BE CUT AND CAPPED 18" BELOW FINISHED GRADE. CONDUCTORS SHALL BE REMOVED TO THEIR SOURCE. DIRECT BURY CONDUCTORS AND ALL COMMUNICATION CABLING SHALL BE CUT 18" BELOW FINISHED GRADE AND ABANDONED. IF FOUNDATION IS TO REMAIN, DEMOLISH CONDUIT AND CONDUCTORS TO A DISTANCE OF 5' MIN BEYOND THE LIMITS OF THE FOUNDATION. NO DUCT BANKS OR POWER/COMM MANHOLES SHALL BE DEMOLISHED.
6. NOTE THAT IDENTIFIED CIRCUITS, FEEDER LOCATIONS AND SOURCE PANEL INFORMATION IS BASED UPON THE BEST AVAILABLE INFORMATION AT THE TIME OF DESIGN. THE CONTRACTOR SHALL FIELD CONFIRM INFORMATION SHOWN AND NOTIFY THE COR OF ANY CHANGED CONDITIONS.
7. WHEN LOAD SIDE FEEDERS ARE DEMOLISHED FROM SOURCE, CREATE AND PROVIDE UPDATED IDENTIFYING LABLING AS REQUIRED BY THE NEC SHOWING REMAINING AND SPARE CIRCUITS.
8. SITE PHOTOGRAPHS SHOWN DEPICT FIELD CONDITIONS AT THE TIME OF DESIGN. CONTRACTOR TO VERIFY FIELD CONDITIONS PRIOR TO START OF WORK AND NOTIFY THE COR OF ANY CHANGED CONDITIONS.

ABBREVIATIONS

A	AMPERE, AUTOMATIC
AC	ALTERNATING CURRENT
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AMP	AMPERE
ATS	AUTOMATIC TRANSFER SWITCH
AUTO	AUTOMATIC AUX AUXILIARY
AWG	AMERICAN WIRE GAGE
BC	BARE COPPER
BFG	BELOW FINISHED GRADE
BKR	BREAKER
BLDG	BUILDING
C	CONDUIT, CONTACTOR, CONDUCTOR, CLOSE
CB	CIRCUIT BREAKER
CFWE	CABLE FURNISHED WITH EQUIPMENT
CKT	CIRCUIT
CO	CONTRACTING OFFICER
CPT	CONTROL POWER TRANSFORMER
CRE	CORROSION RESISTANT
CT	CURRENT TRANSFORMER, CABLE TRAY
DC	DIRECT CURRENT
DIV	DIVISION
DS	DISCONNECT SWITCH
EP	EXPLOSION-PROOF
FDR	FEEDER
F,FU	FUSE
FLEX	FLEXIBLE CONDUIT
FO	FIBER OPTIC
FREQ	FREQUENCY
FVNR	FULL VOLTAGE NON-REVERSING
FVR	FULL VOLTAGE REVERSING
G	GROUND
GALV	GALVANIZED
GEN	GENERATOR
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GND	GROUND
HP	HORSEPOWER
HPS	HIGH PRESSURE SODIUM
HOA	HAND OFF AUTOMATIC
HW	HARDWIRED
IC	INTERRUPTING CAPACITY
IEEE	INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS
I&C	INSTRUMENTATION AND CONTROL
J,JB	JUNCTION BOX
K	KEY INTERLOCK
KA	KILOAMPERES
KCCS	KENNEDY COMPLEX CONTROL SYSTEM
KCMIL	THOUSAND CIRCULAR MILS
KV	KILOVOLT
KVA	KILOVOLT AMPERES
KW	KILOWATTS
KWH	KILOWATT HOUR
L	LIGHTING CONTACTOR, LOW SPEED, LOWER
LB	POUND
LT	LIQUID-TIGHT
FLEX	FLEX CONDUIT
M	MAGNETIC CONTACTOR COIL, MOTOR, MANUAL
MCC	MOTOR CONTROL CENTER
MH	MANHOLE, METAL HALIDE, MOUNTING HEIGHT
MO	MOTOR OPERATOR
MS	MOTOR STARTER
MSC	MISCELLANEOUS
MT,MTD	MOUNT, MOUNTED
MV	MEDIUM VOLTAGE
N	NEUTRAL, NORMAL
NA	NON-AUTOMATIC
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NEUT	NEUTRAL
NO	NORMALLY OPEN
NTS	NOT TO SCALE
O-O	ON-OFF
OOR	ON OFF REMOTE
PB	PULL BOX
PF	POWER FACTOR
PH	PHASE
PNL	PANEL
PT	POTENTIAL TRANSFORMER
PVC	POLYVINYL CHLORIDE CONDUIT
PWR	POWER
RCPT	RECEPTACLE
RF	RADIO FREQUENCY
RGS	RIGID GALVANIZED STEEL
RMS	ROOT MEAN SQUARE
RTU	REMOTE TERMINAL UNIT
RVAT	REDUCED VOLTAGE AUTOTRANSFORMER
RVNR	REDUCED VOLTAGE NON REVERSING
RVR	REDUCED VOLTAGE REVERSING
SA	SURGE ARRESTER
SPD	SURGE PROTECTIVE DEVICE
SS	STAINLESS STEEL
SSRV	SOLID STATE REDUCED VOLTAGE
ST	SHUNT TRIP
SV	SOLENOID VALVE
SW	SWITCH
TEL	TELEPHONE
TEMP	TEMPERATURE
TJB	TERMINAL JUNCTION BOX
TSP	TWISTED SHIELDED PAIR
UGE	UNDERGROUND ELECTRIC
UGT	UNDERGROUND TELEPHONE
UNO	UNLESS NOTED OTHERWISE
UPS	UNINTERRUPTIBLE POWER SUPPLY
V	VOLTAGE, VOLTS
VFD	VARIABLE FREQUENCY DRIVE
V-B	VFD BYPASS
W	WATT
WP	WEATHERPROOF
WWF	WELDED WIRE FABRIC
W/	WITH
XFMR	TRANSFORMER
∅	PHASE

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CLOSE/DEMOLISH FACILITIES AND STRUCTURES, VARIOUS LOCATIONS, PACKAGE 1

GENERAL ELECTRICAL NOTES

FILE NO.	SIZE	DWG. NO.	REV
	F	79K39389	
PROJ. NO. 97963.9		SHEET 78	

E1

FILE: \\TITUSWD01\drafting\14000 Nasa\212-01_Design-Close-Demo-Var-Face-FY13&14\Contract Drawings\Package 1\Electrical\14000212P1-E01.dwg PRINTED: 6/10/2013 2:23 PM, BY USER: Kristen Perez LAST MODIFIED: 6/7/2013 7:22 AM, BY USER: LMiller

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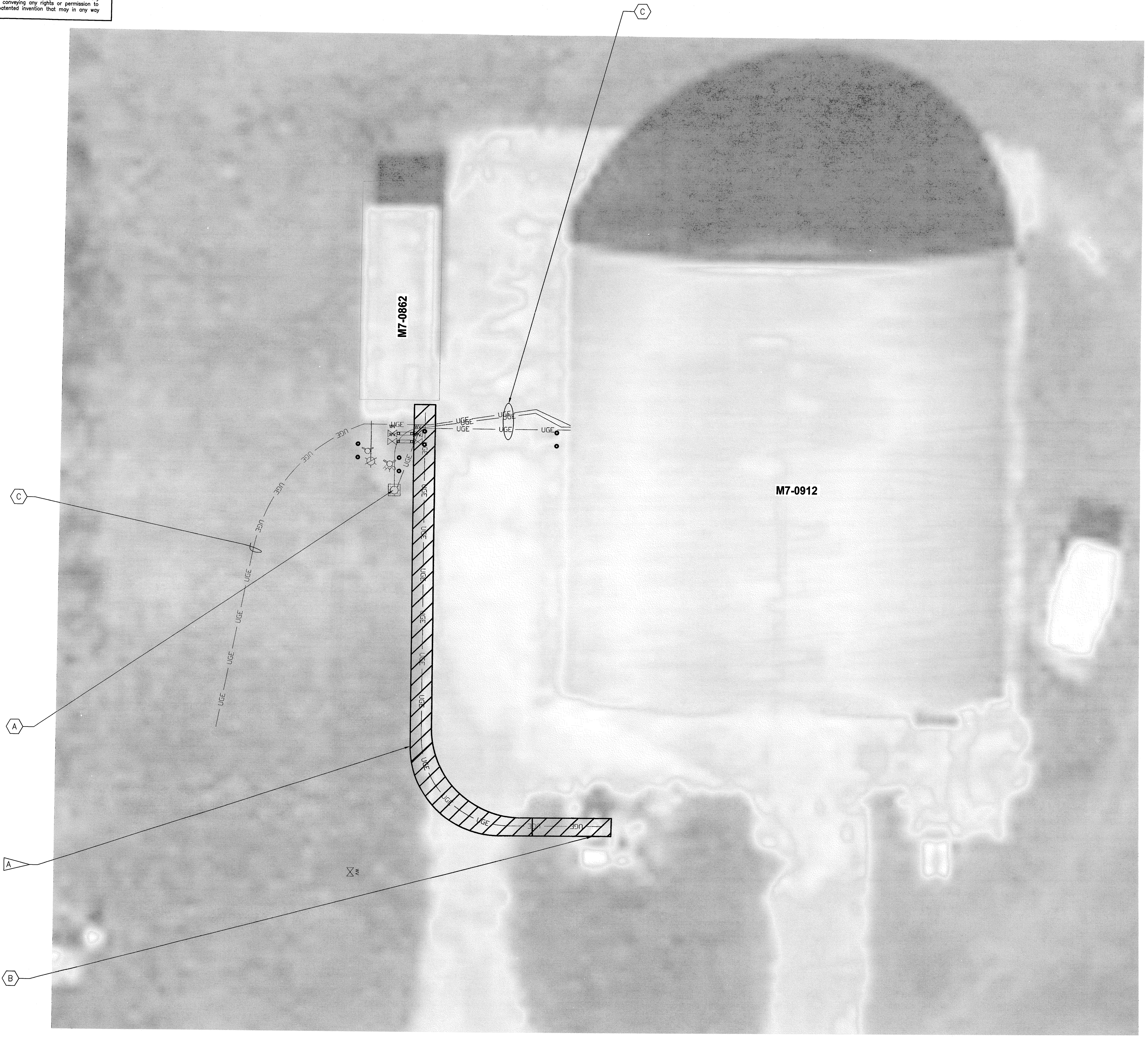

ELECTRICAL SITE PLAN BUILDING M7-0862

1"=10'

FLAG NOTE

A — DEMOLISH ALL ELECTRICAL EQUIPMENT AT HAZARDOUS WASTE STAGING SHELTER (M7-0862) INCLUDING BUT NOT LIMITED TO ALL CONDUCTORS AND CONDUIT. DEMOLISH EXISTING CIRCUIT 14 FROM PANEL D TO M7-0862.

TO REMAIN

- (A) CONCRETE LIGHT POLE 1/E16
- (B) PANEL D 2/E16 3/E16
- (C) UNDERGROUND ELECTRIC LINES

GRAPHIC SCALE

0 5 10 20

SCALE IN FEET
1"=10'

-N-

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CLOSE/DEMOLISH FACILITIES AND STRUCTURES, VARIOUS LOCATIONS, PACKAGE 1

ELECTRICAL SITE PLAN BUILDING M7-0862

FILE NO.	SIZE	DWG. NO.	REV
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E2

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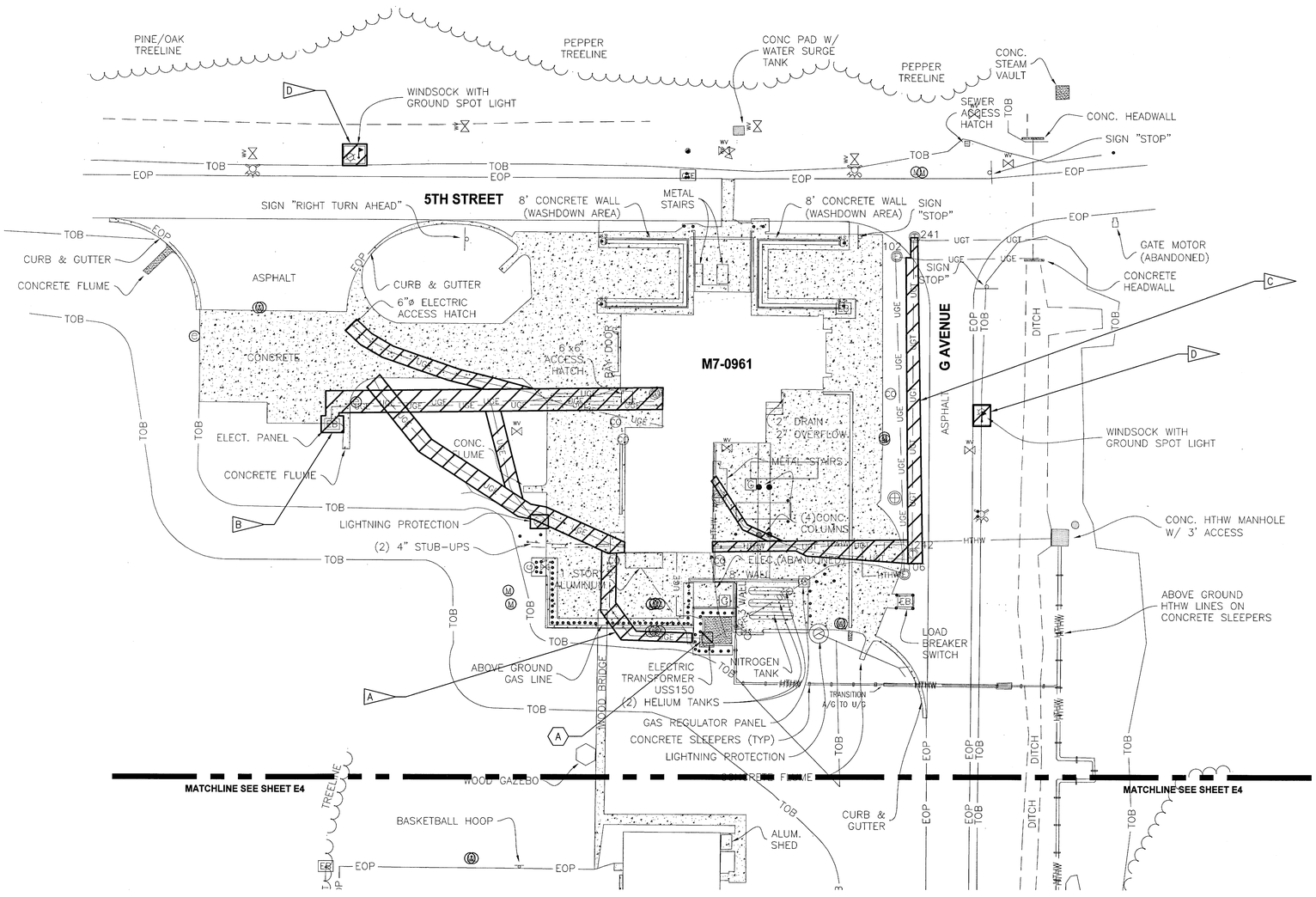

ELECTRICAL SITE PLAN BUILDING M7-0961

1"=30'

GRAPHIC SCALE
0 15 30 60
SCALE IN FEET
1"=30'

NOTES

A. DEMOLISH ALL ELECTRICAL EQUIPMENT AT HYPERGOL MODULE PROCESSING BUILDING, NORTH (M7-0961), INCLUDING BUT NOT LIMITED TO ALL CONDUCTORS AND CONDUIT. DEMOLISH EXISTING CONDUCTORS TO USS 150. ALL OF THE SECONDARY CONNECTIONS AT THIS SUBSTATION TO M7-0961 HAVE BEEN DISCONNECTED. CONTRACTOR SHALL VERIFY IN FIELD. (3/E17)

B. DEMOLISH PANEL, FEEDER, AND ALL ASSOCIATED EQUIPMENT AND APPURTENANCES.

C. DEMOLISH ALL COMMUNICATION CIRCUITS. DISCONNECTION TO BE PERFORMED BY OTHERS.

D. DEMOLISH GROUND SPOT LIGHT FOR WINDSOCK, FEEDER, HARDWARE, AND ALL ASSOCIATED APPURTENANCES. (2/E17)

TO REMAIN

A. USS 150 (1/E17)

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CLOSE/DEMOLISH FACILITIES AND STRUCTURES, VARIOUS LOCATIONS, PACKAGE 1

ELECTRICAL SITE PLAN BUILDING M7-0961

FILE NO.	SIZE	DWG. NO.	REV
	F	79K39389	

PROJ. NO. 97963.9 SHEET 80

E3

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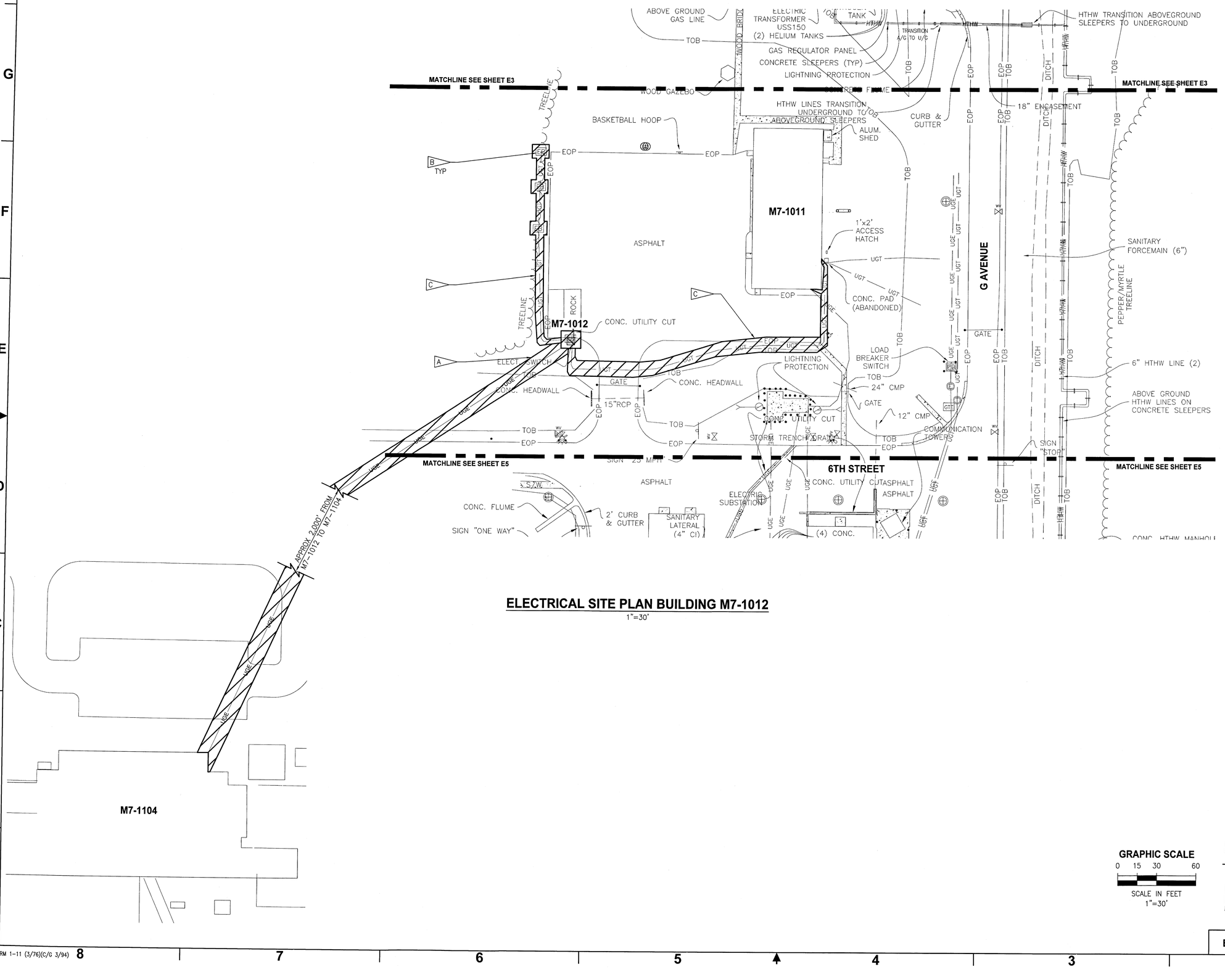
FLAG NOTES

A. DEMOLISH ALL ELECTRICAL EQUIPMENT AT HMF MIX CRIB (M7-1012) INCLUDING BUT NOT LIMITED TO ALL CONDUCTORS AND CONDUIT. DEMOLISH EXISTING CONDUCTORS FROM 45A DISCONNECT SWITCH TO M7-1104. THE SECONDARY CONNECTION AT TRANSFORMER T2 HAS BEEN DISCONNECTED. SEE E9 FOR ELECTRICAL ONE-LINE. (1/E18) (2/E18)

B. DEMOLISH JUNCTION BOXES (3/E18)

C. DEMOLISH ALL COMMUNICATION CIRCUITS. DISCONNECTION TO BE PERFORMED BY OTHERS.



ELECTRICAL SITE PLAN BUILDING M7-1012

1"=30'

GRAPHIC SCALE
0 15 30 60
SCALE IN FEET
1"=30'

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CLOSE/DEMOLISH FACILITIES AND STRUCTURES, VARIOUS LOCATIONS, PACKAGE 1

ELECTRICAL SITE PLAN BUILDING M7-1012

FILE NO.	SIZE	DWG. NO.	REV
	F	79K39389	

PROJ. NO. 97963.9 SHEET 81

E4

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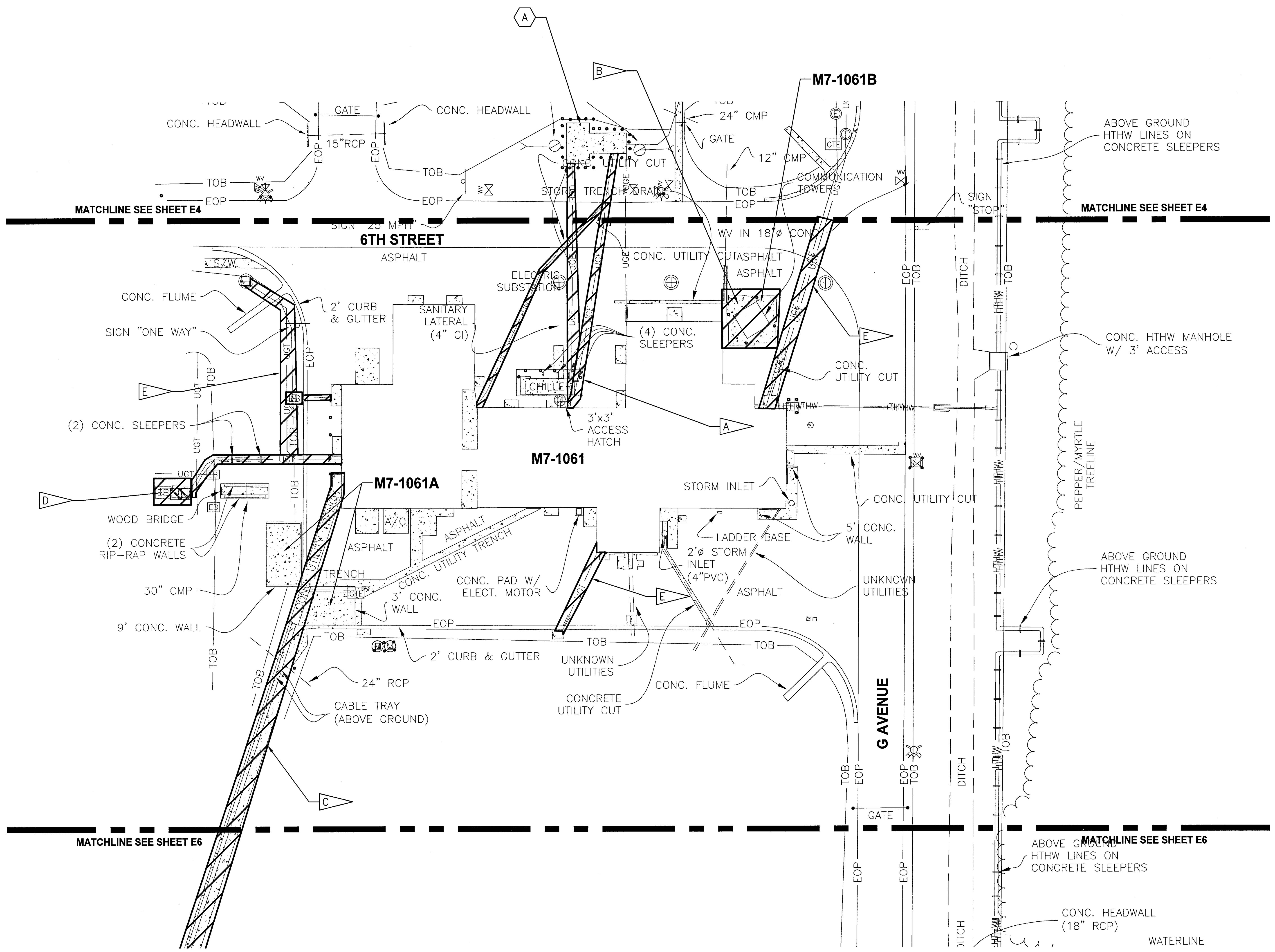

FLAG NOTES

A — DEMOLISH ALL ELECTRICAL EQUIPMENT AT THE HYPERGOL SUPPORT BUILDING (M7-1061) INCLUDING BUT NOT LIMITED TO ALL CONDUCTORS AND CONDUIT. DEMOLISH EXISTING CONDUCTORS TO SS 109. ALL OF THE SECONDARY CONNECTIONS AT THIS SUBSTATION HAVE BEEN DISCONNECTED EXCEPT FOR THE FEEDER TO FACILITY M7-1011 WHICH IS ENERGIZED AND TO REMAIN. SEE SHEETS E9,E10,E11,E12,E13,E14 FOR ELECTRICAL ONE-LINES.

B — DEMOLISH ANTENNA TOWER (M7-1061B) AND ASSOCIATED ELECTRICAL AND COMMUNICATION EQUIPMENT, INCLUDING BUT NOT LIMITED TO ALL CONDUCTORS AND CONDUIT WHICH FEED THE STRUCTURE FROM M7-1061.

C — DEMOLISH ABOVE GROUND CABLE TRAY, CONDUCTORS, AND ASSOCIATED APPURTENANCES. CONDUCTORS SHALL BE DEMOLISHED TO THEIR CONNECTION POINT IN M7-1212, SEE SHEET E6.

D — DEMOLISH TRANSFORMERS, PANELS, MOUNTING RACK, AND ASSOCIATED APPURTENANCES INCLUDING BUT NOT LIMITED TO CONDUCTORS AND CONDUIT WEST OF WOOD BRIDGE.

E — DEMOLISH ALL COMMUNICATION CIRCUITS. DISCONNECTION TO BE PERFORMED BY OTHERS.

TO REMAIN

A — SS 109

ELECTRICAL SITE PLAN M7-1061, M7-1061A & M7-1061B

1"=30'

GRAPHIC SCALE

0 15 30 60

SCALE IN FEET
1"=30'

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CLOSE/DEMOLISH FACILITIES AND STRUCTURES, VARIOUS LOCATIONS, PACKAGE 1

ELECTRICAL SITE PLAN
M7-1061, M7-1061A & M7-1061B

FILE NO. | SIZE F | DWG. NO. 79K39389 | REV

PROJ. NO. 97963.9 | SHEET 82

E5

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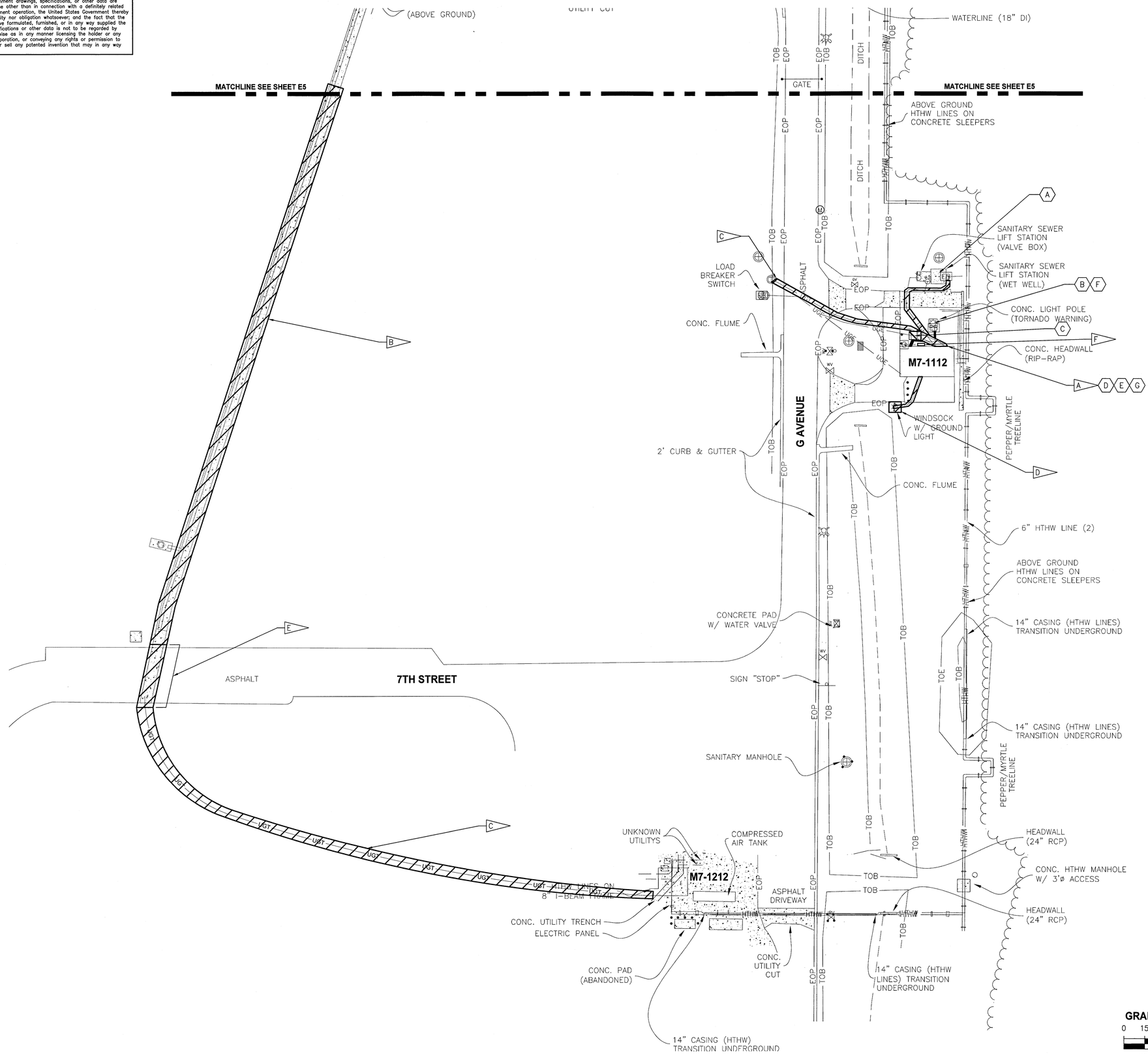

ELECTRICAL SITE PLAN BUILDING M7-1112

1"=30'

FLAG NOTES

A. DEMOLISH ALL ELECTRICAL EQUIPMENT AT HEATING PLANT (M7-1112) INCLUDING BUT NOT LIMITED TO ALL CONDUCTORS AND CONDUIT UNLESS OTHERWISE NOTED. SEE E10 FOR ELECTRICAL ONE-LINE. COMMUNICATION EQUIPMENT AND CIRCUITS, LOCAL TRANSFORMER, AND PANEL A ARE TO REMAIN AND BE REMOUNTED ON CONCRETE POSTS. ASSOCIATED CIRCUITS TO LIFT STATION AND POLE MOUNTED SIREN TO BE INTERCEPTED AT JUNCTION BOX TO BE MOUNTED ON EXISTING ELECTRICAL EQUIPMENT RACK AND RE-FED TO PANEL A. SEE DETAILS 3/E19, 4/E19, 5/E19, 6/E19, 3/E20, 5/E20, 6/E20

B. DEMOLISH ABOVE GROUND CABLE TRAY, CONDUCTORS, SUPPORTS, AND ASSOCIATED APPURTENANCES. CONDUCTORS SHALL BE DEMOLISHED FROM M7-1062 TO THEIR CONNECTION IN M7-1212.

C. DEMOLISH COMMUNICATION CIRCUIT. DISCONNECTION TO BE PERFORMED BY OTHERS.

D. DEMOLISH GROUND SPOT LIGHT FOR WINDSOCK, FEEDER, HARDWARE, AND ALL ASSOCIATED APPURTENANCES. 1/E19

E. EXISTING TRANSITION TO UNDERGROUND SYSTEM. CUT AND ABANDON DUCT, REMOVE CONDUCTORS.

F. APPROXIMATE LOCATION OF RELOCATED ELECTRICAL AND COMMUNICATION EQUIPMENT. FOR MOUNTING OF EQUIPMENT SEE DETAIL 6/E20

TO REMAIN

A. LIFT STATION

B. CONCRETE POLE AND SIREN 2/E19

C. USS SS-190 4/E20

D. TTC PANEL TTC-1 1/E20

E. COMMUNICATIONS JUNCTION BOX 2/E20

F. ELECTRICAL SERVICE RACK 5/E20

G. LOCAL TRANSFORMER AND PANEL A 5/E19, 3/E20

GRAPHIC SCALE
0 15 30 60
SCALE IN FEET
1"=30'

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APPROVED D. TOTH	6/10/13
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CLOSE/DEMOLISH FACILITIES AND STRUCTURES, VARIOUS LOCATIONS, PACKAGE 1

ELECTRICAL SITE PLAN BUILDING M7-1112

FILE NO.	SIZE	DWG. NO.	REV
	F	79K39389	

E6

PROJ. NO. 97963.9 | SHEET 83

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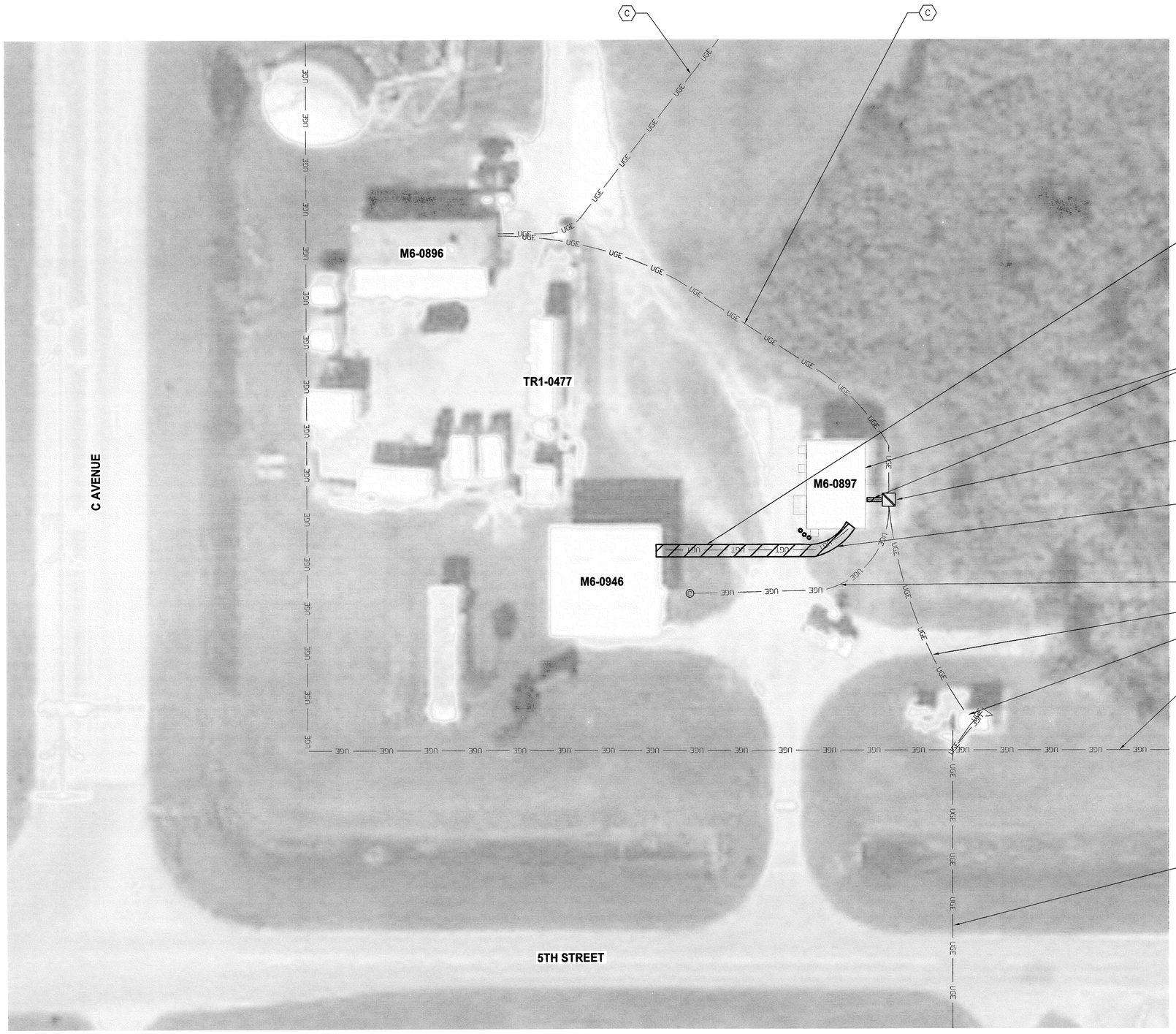

FLAG NOTE

A. DEMOLISH ALL ELECTRICAL EQUIPMENT AT EXISTING M6-0897 BUILDING INCLUDING BUT NOT LIMITED TO ALL CONDUCTORS AND CONDUIT FROM MAIN CIRCUIT BREAKER IN PANEL P AND TERMINATE TO EXISTING SS 123 LOCATED IN BLDG M6-0946. SEE E15 FOR ELECTRICAL ONE-LINE 4/E21, 5/E21, 6/E21

B. DEMOLISH DISCONNECT SWITCH INCLUDING BUT NOT LIMITED TO CONDUITS, CONDUCTORS, MOUNTING RACK, AND ASSOCIATED HARDWARE AND APPURTENANCES. 2/E21

C. DEMOLISH ALL COMMUNICATION CIRCUITS. DISCONNECTION TO BE PERFORMED BY OTHERS.

TO REMAIN

A. ELECTRICAL EQUIPMENT AND STRUCTURES

B. SS 123 1/E21, 2/E21

C. UNDERGROUND ELECTRIC LINES

D. PANEL DP 3/E21

ELECTRICAL SITE PLAN BUILDING M6-0897

1"=20'

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

THIS SPACE RESERVED

SYM	ZONE	DESCRIPTION	DATE	APPROVED

REVISIONS

THIS DRAWING CREATED IN AUTOCAD 2007 FILE FORMAT AND WILL BE REVISED ONLY ON AN AUTOCAD SYSTEM. FILE: 14000212P1-E7.DWG

JONES EDMUNDS
730 NE WALDO ROAD, GAINESVILLE, FLORIDA 32641 / (352) 377-5821
3910 S WASHINGTON AVE, SUITE 210, TITUSVILLE, FLORIDA 32780 / (321) 269-2950

SIGNATURES	DATE
DRAWN L. MILLER	06/10/13
CHECKED R. CHRUSZCZ	06/10/13
SUBMITTED M. CLARK	06/10/13
FL LICENSURE: FL LICENSE NO: 48898	06/10/13
APPROVED D. TOTH	6/10/13
I. OTERO	

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

CLOSE/DEMOLISH FACILITIES AND STRUCTURES, VARIOUS LOCATIONS, PACKAGE 1

ELECTRICAL SITE PLAN BUILDING M6-0897

FILE NO.	SIZE	DWG. NO.	REV
	F	79K39389	
PROJ. NO. 97963.9		SHEET 84	

E7

FILE: \\Rtsumm001\data\eng\4000 Nasa\212-01_Design-Close-Demo-Var-Facs-FY13&14\Contract Drawings\Package 1\Electrical\14000212P1-E7.dwg PRINTED: 6/10/2013 2:24 PM, BY USER: Kristian Perez LAST MODIFIED: 6/7/2013 9:56 AM, BY USER: LMiller

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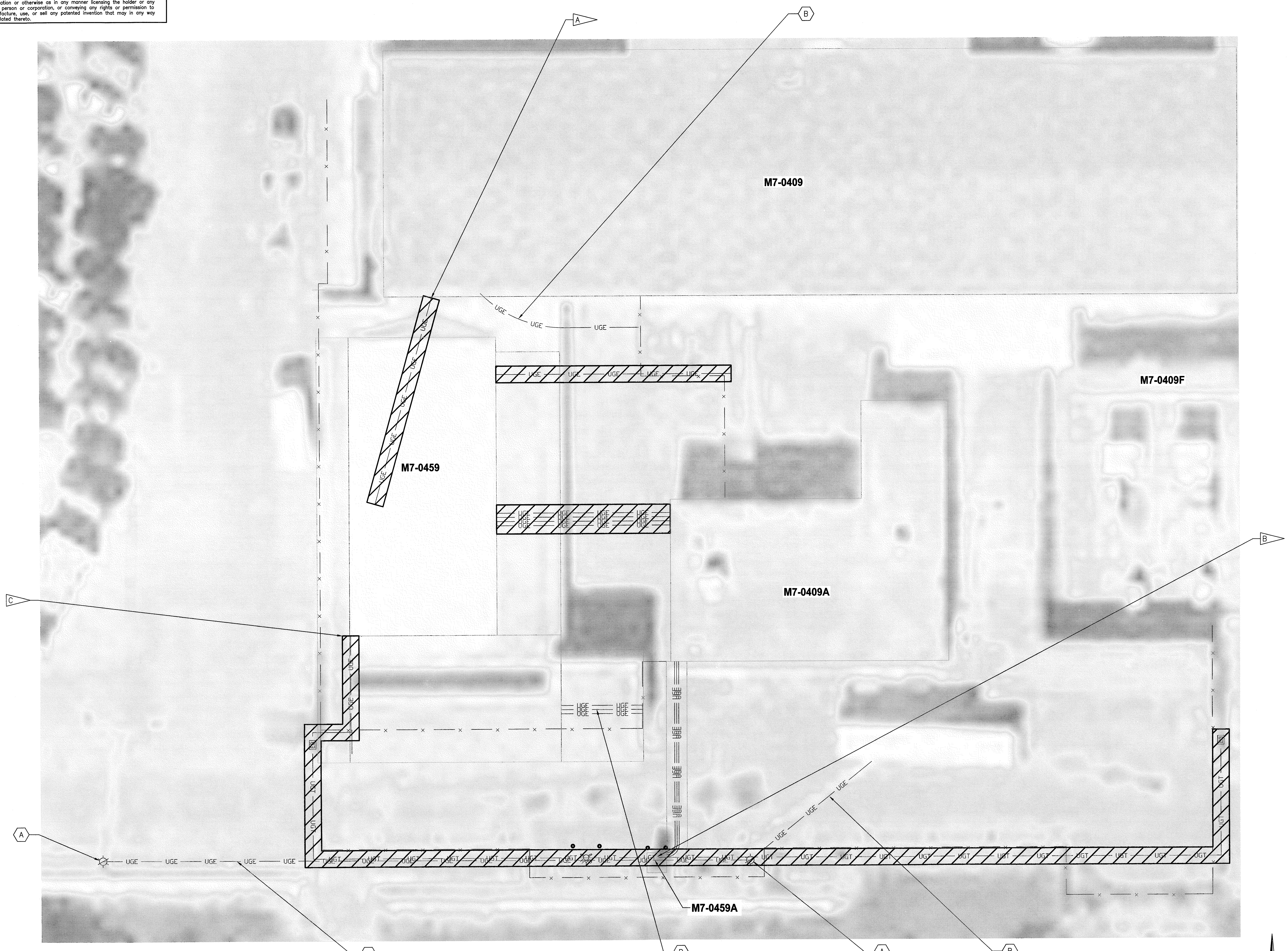

FLAG NOTES

A — DEMOLISH ALL ELECTRICAL EQUIPMENT AT ISSC CONCESSION BUILDING (M7-0459), INCLUDING BUT NOT LIMITED TO CONDUCTORS AND CONDUIT. DEMOLISH EXISTING CIRCUIT 1 FROM PANEL CL TO B9VD4 CB LOCATED IN BLDG M7-0409.

B — DEMOLISH ALL ELECTRICAL EQUIPMENT AT GUARD HOUSE (M7-0459A), INCLUDING BUT NOT LIMITED TO CONDUCTORS AND CONDUIT. DEMOLISH EXISTING CIRCUITS 1, 3, AND 5 TO PANEL DP VIA DISCONNECT SWITCH MOUNTED ON THE SIDE OF BLDG M7-0409A.

C — DEMOLISH ALL COMMUNICATION CIRCUITS. DISCONNECTION TO BE PERFORMED BY OTHERS.

TO REMAIN

A — LIGHT POLE

A — UNDERGROUND ELECTRIC LINES

ELECTRICAL SITE PLAN BUILDINGS M7-0459 & M7-0459A

1"=10'

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SIGNATURES	DATE
DRAWN L. MILLER	06/10/13
CHECKED R. CHRUSZCZ	06/10/13
SUBMITTED M. CLARK	06/10/13
ST of LICENSURE: FL LICENSE NO: 48898	06/10/13
APPROVED D. TOTH	6/10/13
I. OTERO	JUN 12 / 13

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CLOSE/DEMOLISH FACILITIES AND STRUCTURES, VARIOUS LOCATIONS, PACKAGE 1
ELECTRICAL SITE PLAN BUILDINGS M7-0459 & M7-0459A

FILE NO.	SIZE	DWG. NO.	REV
	F	79K39389	

PROJ. NO. 97963.9 — SHEET 85

E8

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

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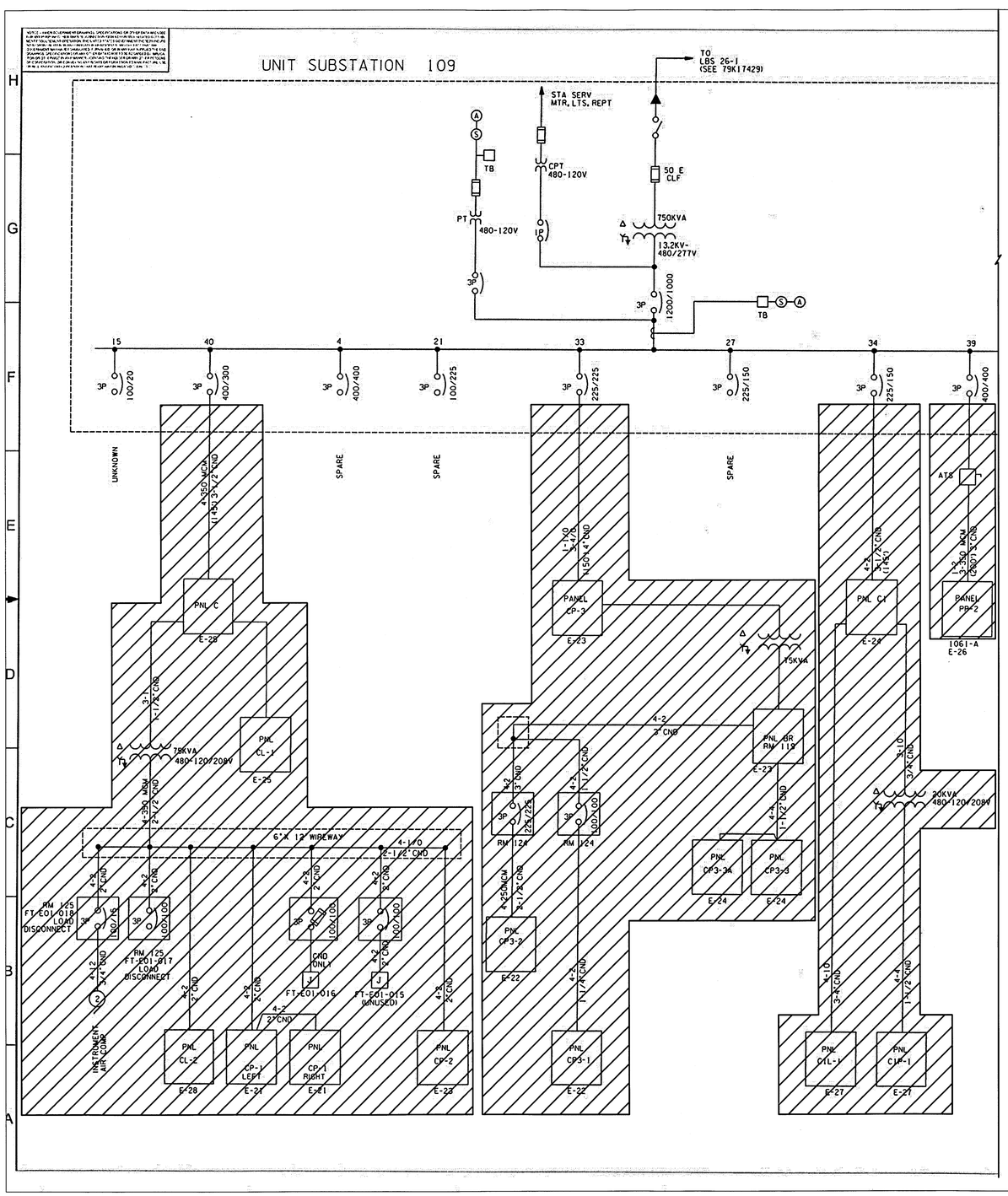

ELECTRICAL ONE-LINE M7-1012 & M7-1061A

NTS

NOTE

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3910 S WASHINGTON AVE, SUITE 210, TITUSVILLE, FLORIDA 32780 / (321) 269-2950

SIGNATURES	DATE
DRAWN L. MILLER	06/10/13
CHECKED R. CHRUSZCZ	06/10/13
SUBMITTED	06/10/13
ST of LICENSURE: FL LICENSE NO: 48898	06/10/13
APPROVED D. TOTH	6/10/13
I. OTERO	6/11/13

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CLOSE/DEMOLISH FACILITIES AND STRUCTURES, VARIOUS LOCATIONS, PACKAGE 1

ELECTRICAL ONE-LINE M7-1012 & M7-1061A

FILE NO.	SIZE	DWG. NO.	REV
	F	79K39389	
PROJ. NO. 97963.9		SHEET 86	

E9

FILE: \\Ilsamdc01\prefiles\14000 Nasa\212-01_Design-Close-Demo-Var-Facs-FY13&14\Contract Drawings\Package 1\Electrical\14000212P1-E09.dwg PRINTED: 6/10/2013 2:25 PM, BY USER: Kristen Perez LAST MODIFIED: 6/7/2013 9:46 AM, BY USER: LMiller

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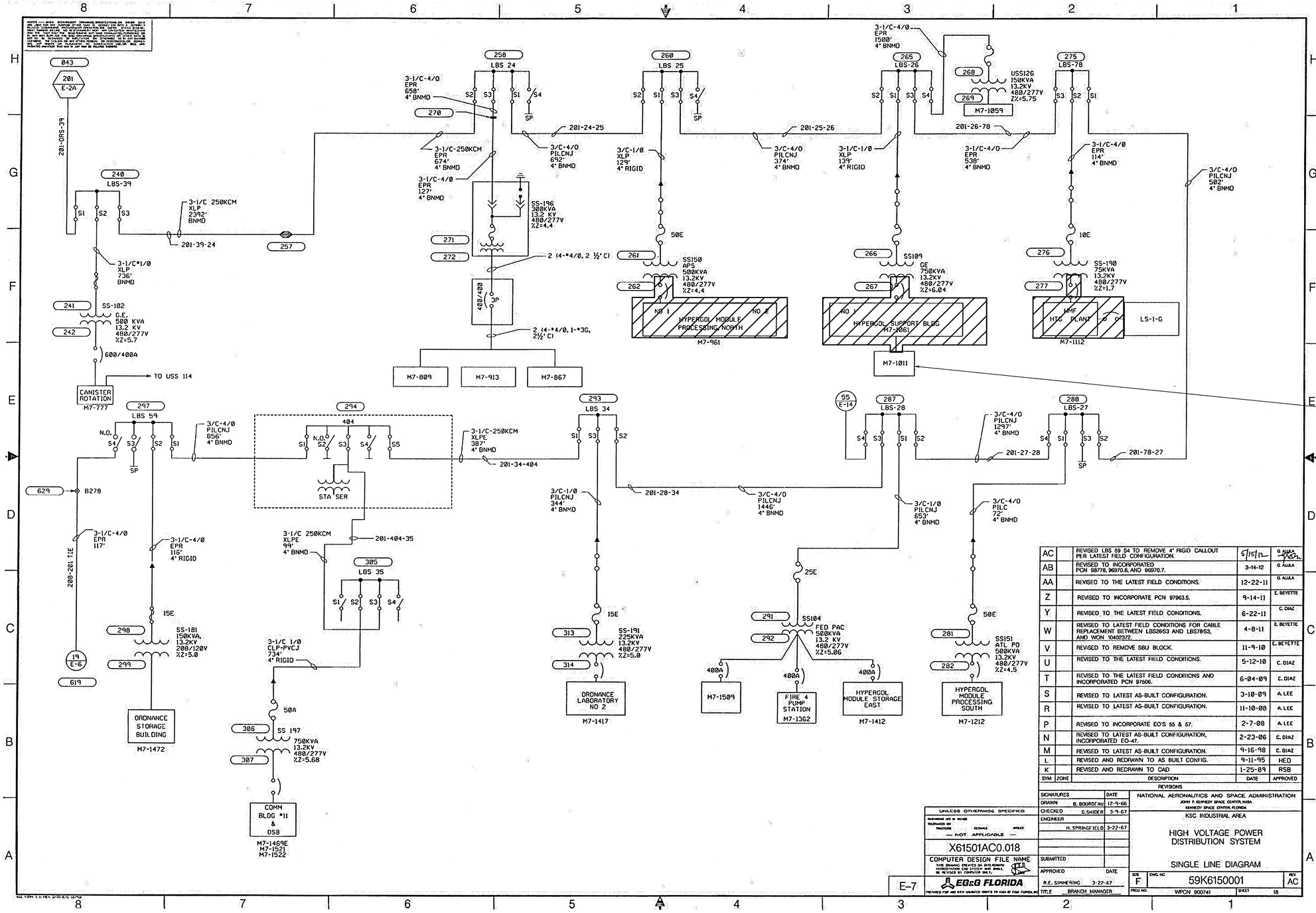
B BLDG M7-1011 FED FROM SUBSTATION SS109 TO REMAIN. SEE E14 FOR ELECTRICAL ONE-LINE.



SYM	ZONE	DESCRIPTION	DATE	APPROVED
AC		REVISED LBS 59 S4 TO REMOVE 4" RIGID CALLOUT PER LATEST FIELD CONFIGURATION.	5/15/13	G.ALMA
AB		REVISED TO INCORPORATED PCN 98778, 98370.6, AND 98370.7.	3-14-12	G.ALMA
AA		REVISED TO THE LATEST FIELD CONDITIONS.	12-22-11	G.ALMA
Z		REVISED TO INCORPORATE PCN 97963.5.	9-14-11	E. BEYETTE
Y		REVISED TO THE LATEST FIELD CONDITIONS.	6-22-11	C. DIAZ
W		REVISED TO LATEST FIELD CONDITIONS FOR CABLE REPLACEMENT BETWEEN LBS26S3 AND LBS78S3, AND WON 10402372.	4-8-11	E. BEYETTE
V		REVISED TO REMOVE SBU BLOCK.	11-9-10	E. BEYETTE
U		REVISED TO THE LATEST FIELD CONDITIONS.	5-12-10	C. DIAZ
T		REVISED TO THE LATEST FIELD CONDITIONS AND INCORPORATED PCN 97506.	6-04-09	C. DIAZ
S		REVISED TO LATEST AS-BUILT CONFIGURATION.	3-10-09	A. LEE
R		REVISED TO LATEST AS-BUILT CONFIGURATION.	11-10-08	A. LEE
P		REVISED TO INCORPORATE EO'S 55 & 57.	2-7-08	A. LEE
N		REVISED TO LATEST AS-BUILT CONFIGURATION, INCORPORATED EO-47.	2-23-06	C. DIAZ
M		REVISED TO LATEST AS-BUILT CONFIGURATION.	9-16-98	C. DIAZ
L		REVISED AND REDRAWN TO AS BUILT CONFIG.	9-11-95	HED
K		REVISED AND REDRAWN TO CAD	1-25-89	RSB

REVISIONS

SIGNATURES		DATE
DRAWN	B. BOURDEAU	12-9-66
CHECKED	G.SNIDER	3-9-67
ENGINEER		
	H. SPRINGFIELD	3-22-67
SUBMITTED		
APPROVED		DATE
R.E. SIMMERING		3-22-67
TITLE	BRANCH MANAGER	

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

HIGH VOLTAGE POWER DISTRIBUTION SYSTEM

SINGLE LINE DIAGRAM

SIZE F | DWG NO 59K6150001 | REV AC
PROJ NO WPCN 900741 | SHEET 18

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON FRACTIONS ± DECIMALS ± ANGLES ±
— NOT APPLICABLE —

X61501AC0.018
COMPUTER DESIGN FILE NAME
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EG&G FLORIDA
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E-7

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3910 S WASHINGTON AVE, SUITE 210, TITUSVILLE, FLORIDA 32780 / (321) 269-2950

SIGNATURES	DATE
DRAWN L. MILLER	06/10/13
CHECKED R. CHRUSZCZ	06/10/13
SUBMITTED	06/10/13
ST of LICENSURE: FL LICENSE NO: 48898	06/10/13
APPROVED D. TOTH	6/10/13
I. OTERO	REV 11/3

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KENNEDY SPACE CENTER, FLORIDA

CLOSE/DEMOLISH FACILITIES AND STRUCTURES, VARIOUS LOCATIONS, PACKAGE 1
ELECTRICAL ONE-LINE
M7-0961,M7-1061,M7-1061A,M7-1061B & M7-1112

FILE NO. | SIZE F | DWG. NO. 79K39389 | REV
PROJ. NO. 97963.9 | SHEET 87

E10

ELECTRICAL ONE-LINE M7-0961,M7-1061,M7-1061A,M7-1061B & M7-1112

NTS

FILE: \\TITUSMK01\grafting\14000 Nasa\212-01_Design-Close-Demo-Var-Facs-FY13&14\Contract Drawings\Package 1\Electrical\140002I2P1-E10.dwg PRINTED: 6/10/2013 2:25 PM, BY USER: Kristin Perez LAST MODIFIED: 6/7/2013 9:50 AM, BY USER: LMiller

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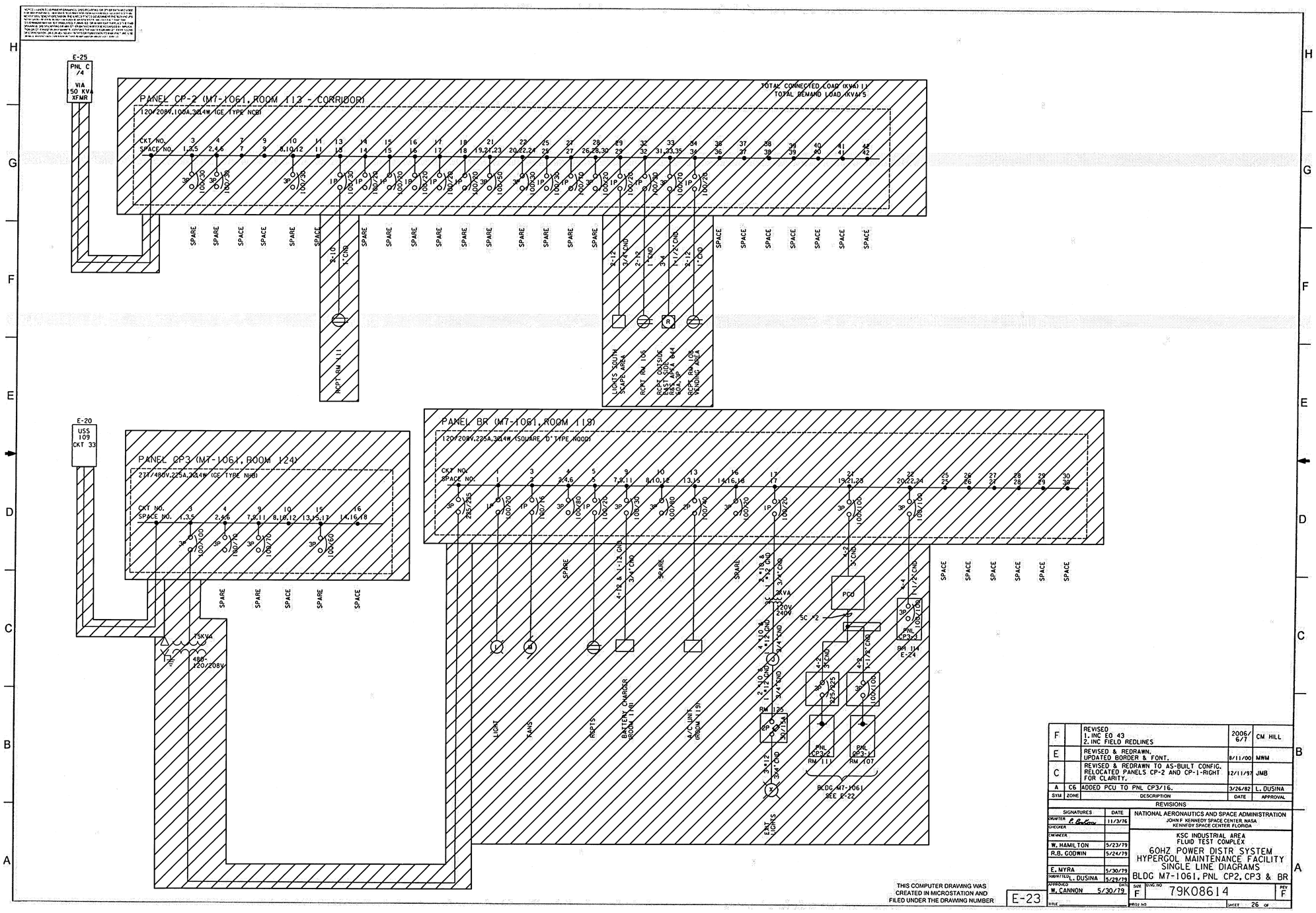

SYM	ZONE	DESCRIPTION	DATE	APPROVAL
F		REVISED 1. INC EO 43 2. INC FIELD REDLINES	2006/ 6/7	CM HILL
E		REVISED & REDRAWN. UPDATED BORDER & FONT.	8/11/00	MWM
C		REVISED & REDRAWN TO AS-BUILT CONFIG. RELOCATED PANELS CP-2 AND CP-1-RIGHT FOR CLARITY.	12/11/97	JMB
A	C6	ADDED PCU TO PNL CP3/16.	3/26/82	L. DUSINA

REVISIONS

SIGNATURES		DATE
DRAFTER	E. Barton	11/3/16
CHECKER		
ENGINEER		
W. HAMILTON		5/23/79
R.B. GODWIN		5/24/79
E. MYRA		5/30/79
SUBMITTED	L. DUSINA	5/29/79
APPROVED	W. CANNON	5/30/79

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KENNEDY SPACE CENTER FLORIDA

KSC INDUSTRIAL AREA
FLUID TEST COMPLEX
60HZ POWER DISTR SYSTEM
HYPERGOL MAINTENANCE FACILITY
SINGLE LINE DIAGRAMS
BLDG M7-1061, PNL CP2, CP3 & BR

SIZE F | DWG. NO 79K08614 | REV F
PROJ. NO | SHEET 26 OF

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3910 S WASHINGTON AVE, SUITE 210, TITUSVILLE, FLORIDA 32780 / (321) 269-2950

SIGNATURES	DATE
DRAWN L. MILLER	06/10/13
CHECKED R. CHRUSZCZ	06/10/13
SUBMITTED	06/10/13
ST of LICENSURE: FL	
LICENSE NO: 48898	06/10/13
APPROVED D. TOTH	6/10/13
I. OTERO	6/10/13

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CLOSE/DEMOLISH FACILITIES AND STRUCTURES, VARIOUS LOCATIONS, PACKAGE 1

ELECTRICAL ONE LINE B
M7-1061 M7-1061A & M7-1061B

FILE NO. | SIZE F | DWG. NO. 79K39389 | REV
PROJ. NO. 97963.9 | SHEET 88

E11

ELECTRICAL ONE LINE B M7-1061, M7-1061A & M7-1061B

NTS

FILE: \\TITUSMO01\drafting\14000 Nasa\212-01_Design-Close-Demo-Var-Facs-FY13&14\Contract Drawings\Package 1\Electrical\14000212P1-E11.dwg PRINTED: 6/10/2013 2:25 PM, BY USER: Kristin Perez LAST MODIFIED: 6/7/2013 9:51 AM, BY USER: LMiller

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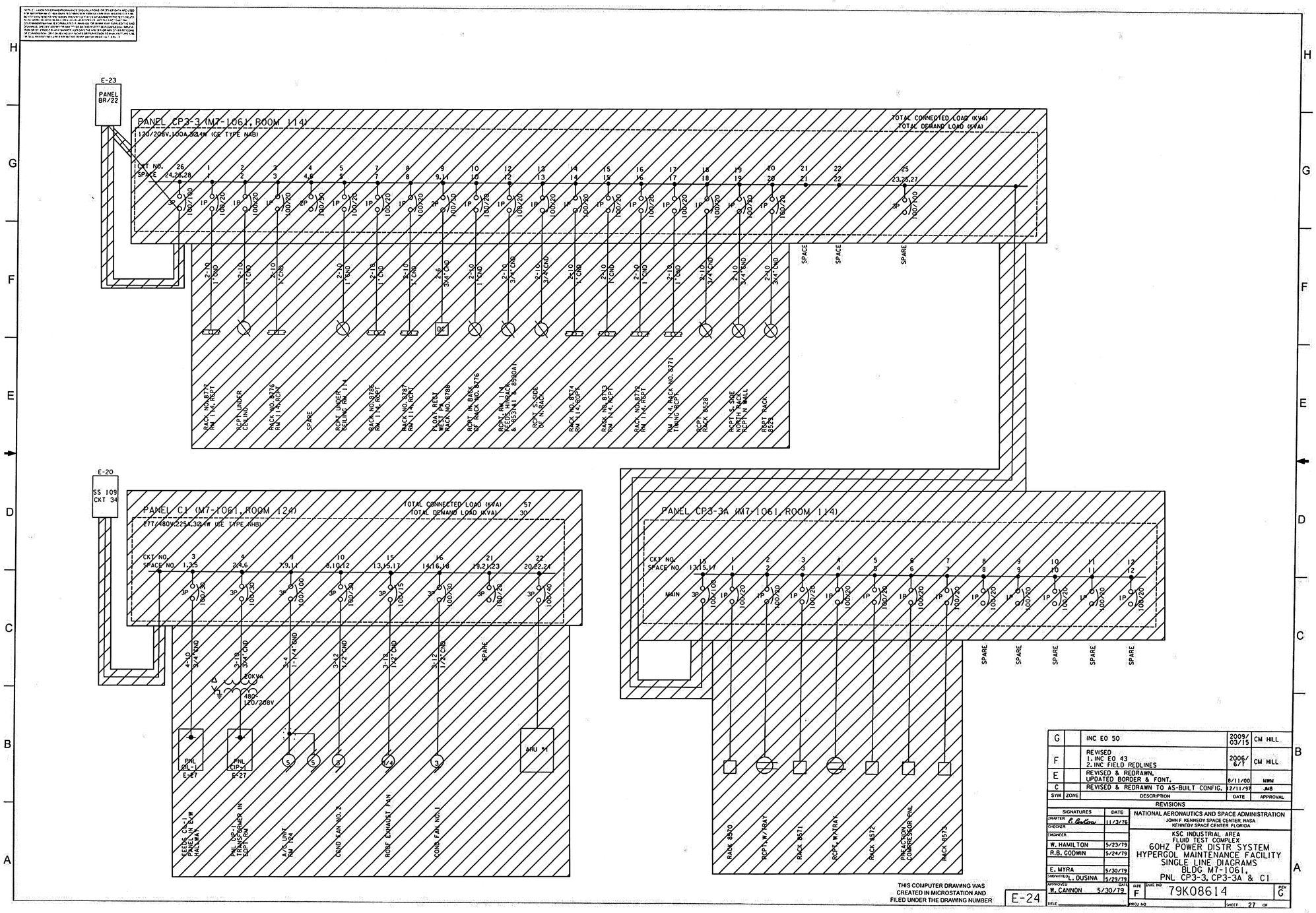

SYM	ZONE	DESCRIPTION	DATE	APPROVAL
G		INC EO 50	2009/ 03/15	CM HILL
F		REVISED 1. INC EO 43 2. INC FIELD REDLINES	2006/ 6/7	CM HILL
E		REVISED & REDRAWN, UPDATED BORDER & FONT.	8/11/00	MMM
C		REVISED & REDRAWN TO AS-BUILT CONFIG.	12/11/95	JMB

REVISIONS

SIGNATURES	DATE
DRAFTER E. Cotton	11/3/76
CHECKER	
ENGINEER	
W. HAMILTON	5/23/79
R.B. GODWIN	5/24/79
E. MYRA	5/30/79
SUBMITTED L. DUSINA	5/29/79
APPROVED W. CANNON	5/30/79

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KENNEDY SPACE CENTER FLORIDA

KSC INDUSTRIAL AREA
FLUID TEST COMPLEX
60HZ POWER DISTR SYSTEM
HYPERGOL MAINTENANCE FACILITY
SINGLE LINE DIAGRAMS
BLDG M7-1061,
PNL CP3-3, CP3-3A & C1

SIZE F | DWG NO 79K08614 | REV G
PROJ NO | SHEET 27 OF

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SIGNATURES	DATE
DRAWN L. MILLER	06/10/13
CHECKED R. CHRUSZCZ	06/10/13
SUBMITTED	06/10/13
ST of LICENSURE: FL LICENSE NO: 48898	06/10/13
APPROVED D. TOTH	6/10/13
L. OTERO	10/13

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KENNEDY SPACE CENTER, FLORIDA

CLOSE/DEMOLISH FACILITIES AND STRUCTURES, VARIOUS LOCATIONS, PACKAGE 1

ELECTRICAL ONE-LINE C M7-1061 M7-1061A & M7-1061B

FILE NO.	SIZE	DWG. NO.	REV
	F	79K39389	

PROJ. NO. 97963.9 | SHEET 89

E12

ELECTRICAL ONE-LINE C M7-1061, M7-1061A & M7-1061B

NTS

FILE: \\TITSMD01\drafting\14000 Nasa\212-01_Design-Close-Demo-Var-Facs-FY13&14\Contract Drawings\Package 1\Electrical\14000212P1-E12.dwg PRINTED: 6/10/2013 2:25 PM, BY USER: Kristian Perez LAST MODIFIED: 6/7/2013 9:52 AM, BY USER: LMiller

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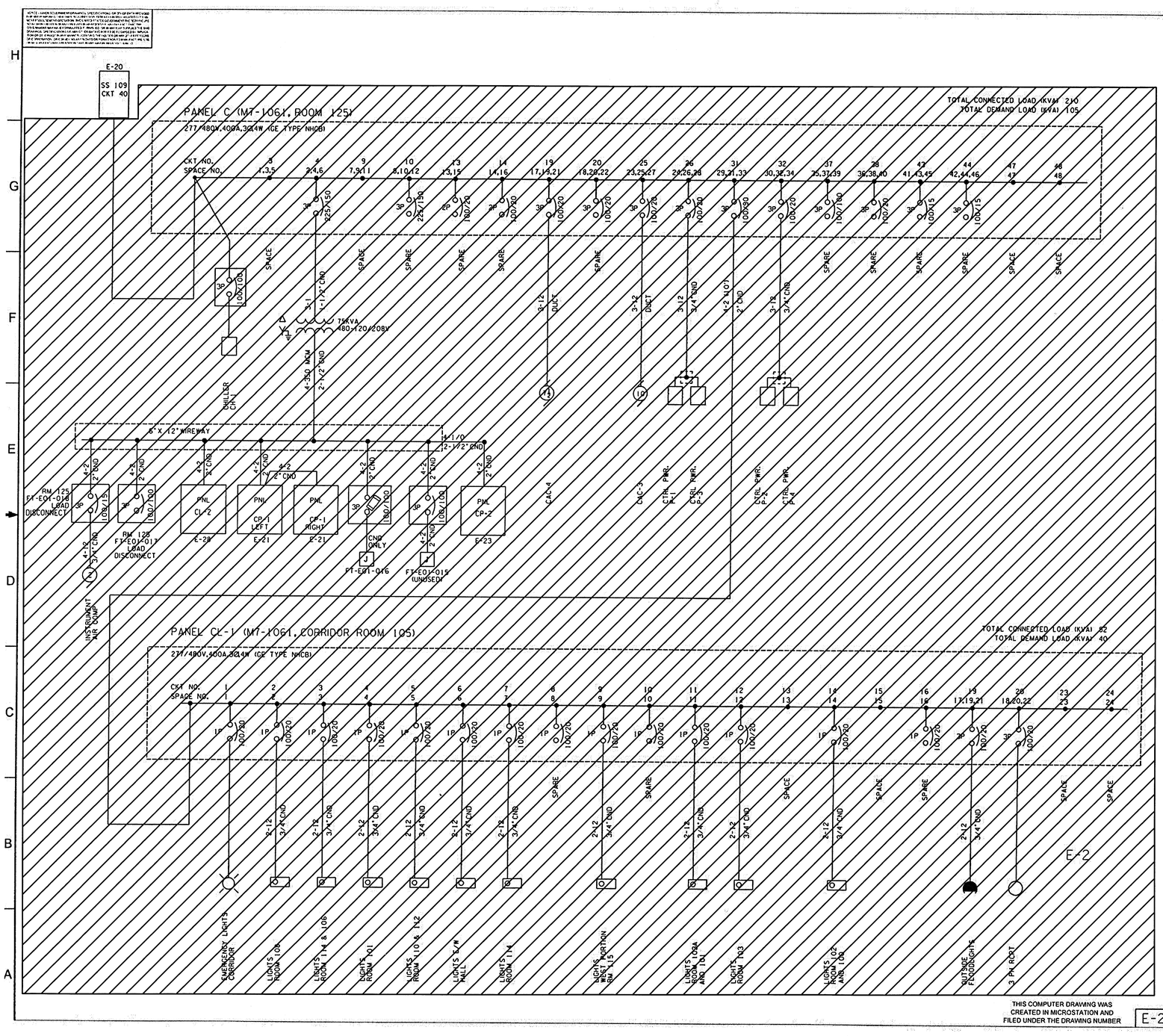

SYM	ZONE	DESCRIPTION	DATE	APPROVED
F		REVISED I. INC FIELD REDLINES.	2006/6/7	CM HILL
E		REVISED & REDRAWN, UPDATED BORDER & FONT.	8/11/00	MRM
C		REVISED & REDRAWN TO AS-BUILT CONFIG.	12/11/97	JWB

REVISIONS

SIGNATURES	DATE
DRAFTER R Bell	8-2-77
CHECKER	
ENGINEER	
W. HAMILTON	5/23/79
R.B. GODWIN	5/24/79
E. MYRA	5/30/79
SUBMITTED L. DUSINA	5/29/79
APPROVED W. CANNON	DATE 5/30/79
TITLE	

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

KSC INDUSTRIAL AREA
FLUID TEST COMPLEX
60HZ POWER DISTR SYSTEM
HYPERGOL MAINTENANCE FACILITY
SINGLE LINE DIAGRAMS
BLDG M7-1061, PNLS C & CL-1

SIZE F | DWG. NO. 79K08614 | REV F
PROJ NO | SHEET 28 OF

THIS SPACE RESERVED

SYM	ZONE	DESCRIPTION	DATE	APPROVED

REVISIONS

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JONES EDMUNDS
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3910 S WASHINGTON AVE, SUITE 210, TITUSVILLE, FLORIDA 32780 / (321) 269-2950

SIGNATURES	DATE
DRAWN L. MILLER	06/10/13
CHECKED R. CHRUSZCZ	06/10/13
SUBMITTED	06/10/13
ST of LICENSURE: FL LICENSE NO: 48898	06/10/13
APPROVED D. TOTH	6/10/13
I. OTERO	208 VE/13

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JOHN F. KENNEDY SPACE CENTER, NASA
KENNEDY SPACE CENTER, FLORIDA

CLOSE/DEMOLISH FACILITIES AND STRUCTURES, VARIOUS LOCATIONS, PACKAGE 1

ELECTRICAL ONE-LINE D M7-1061 M7-1061A & M7-1061B

FILE NO. | SIZE F | DWG. NO. 79K39389 | REV

PROJ. NO. 97963.9 | SHEET 90

E13

ELECTRICAL ONE-LINE D M7-1061, M7-1061A & M7-1061B

NTS

FILE: \\TITSM001\vdrafting\14000 Nasa\212-01_Design-Close-Demo-Vpr-Focs-FY13&14\Control Drawings\Package 1\Electrical\14000212P1-E13.dwg PRINTED: 6/10/2013 2:25 PM, BY USER: Kristian Perez LAST MODIFIED: 6/7/2013 9:52 AM, BY USER: LMiller
KSC FORM 1-11 (3/76)(C/G 3/94)

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NOTE

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SPECIFIC NOTES:

A THIS PANEL IS NOT MAINTAINED BY USA.

E-20
SS 109
CKT 28
VIA
75 KVA
XFMR

PANEL CT-1-1 (M7-1011)
120/208V,125A,3Ø4W (GE TYPE AQF)

CKT NO. / SPACE NO.	1 / 1,3	2 / 2	4 / 4	5 / 5	6 / 6	7 / 7	10 / 8,10,12	9 / 9	11 / 11
	3P 100/100	2P 100/30	IP 100/20	IP 100/20	IP 100/20	IP 100/20	3P 100/50	IP 100/20	IP 100/20
4-2 1-1/2"CND									
	3-10 3/4"CND	3-12 3/4"CND	3-12 3/4"CND	3-12 3/4"CND	SPARE	3-12 3/4"CND	3-6 3/4"CND	3-12 3/4"CND	3-12 3/4"CND
	LOGISTIC CAROUSEL	RECEPT. S. WALL	OUTSIDE QUARTZ LIGHT	CONTROL CIRCUIT CAROUSEL		OFFICE RECEPT.	FORK LIFT CHARGER	OFFICE RECEPT.	OFFICE RECEPT.

E-20
SS 109
CKT 39

GEN

ATS
400A

PANEL PP-2 (M7-1061 H)
277/480V,1600A,3Ø4W (SQUARE D TYPE B4-2826-MAT-S1)
TOTAL CONNECTED LOAD (KVA) 60
TOTAL DEMAND LOAD (KVA) 30

CKT NO. / SPACE NO.	MAIN 35	3 / 1,3,5	4 / 2,4,6	8 / 7,9,11	10 / 8,10,12	15 / 13,15,17	16 / 14,16,18	21 / 19,21,23	20 / 20	22 / 22	24 / 24	28 / 26,28,30	27 / 25,27,29
	3P 400/400	3P 150/125	3P 100/50	3P 100/100	3P 100/100	3P 100/100	3P 100/100	3P 225/225	IP 100/20	IP 100/20	IP 100/20	3P 100/100	3P 100/100
		PNL PP2A	PNL PP2A	RCP1 CONTROL RM 1, 1004	RCP1 CONTROL RM 1, 1004	RCP1 CONTROL RM 1, 1004	RCP1 CONTROL RM 2, 1004	PNL PP1	SPARE	SPARE	SPARE	PWR PEDESTAL 12 TRAILER	PWR PEDESTAL 11 TO TRAILER

PANEL CT-1 (M7-1011)
120/208V,125A,3Ø4W (GE TYPE AGF)

4-2 (1401) 1-1/2"CND

CKT NO. / SPACE NO.	1 / 1	2 / 2	3 / 3	4 / 4	5 / 5	6 / 6	7 / 7	8 / 8	10 / 10	9 / 9,11,13	12 / 12	14 / 14	15 / 15	17 / 17	18 / 16,18
	3P MAIN 100/100	IP 100/20	IP 100/20	IP 100/20	IP 100/20	IP 100/20	IP 100/20	IP 100/20	IP 100/20	3P 100/60	IP 100/20	IP 100/20	IP 100/20	IP 100/20	2P 100/20
	3-12 3/4"CND	3-12 3/4"CND	3-12 3/4"CND	3-12 3/4"CND	3-12 3/4"CND	3-12 3/4"CND	3-12 3/4"CND	3-12 3/4"CND	3-12 3/4"CND	4-4	3-12 3/4"CND	3-12 3/4"CND	SPARE		3-12 3/4"CND
	EXIT LIGHTS	OFFICE RCPT	EMERGENCY LIGHTS	WAREHOUSE RCPT WEST	OFFICE LIGHTS	WAREHOUSE RCPT EAST	LIGHTS WEST SIDE	WAREHOUSE LIGHTS	WAREHOUSE LIGHTS	A/C UNIT	OUTSIDE LIGHTS	SOUTH OUTSIDE FLOOD LIGHT		RCPT OFFICE	LIGHTS EAST SIDE

SYM	ZONE	DESCRIPTION	DATE	APPROVAL
F		REVISED 1. INC FIELD REDLINES.	2006/ 6/7	CM HILL
E		REVISED & REDRAWN, UPDATED BORDER & FONT.	8/11/00	MWM
C		REVISED & REDRAWN TO AS-BUILT CONFIG.	12/11/95	JMB
B		CHANGED TITLE INC E027.	12/7/95	F. FLYNN

REVISIONS

SIGNATURES	DATE
DRAFTER P. Gaston	11/3/76
CHECKER	
ENGINEER	
W. HAMILTON	5/23/79
R.B. GODWIN	5/24/79
E. MYRA	5/30/79
SUBMITTED L. DUSINA	5/29/79
APPROVED W. CANNON	5/30/79

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

KSC INDUSTRIAL AREA
FLUID TEST COMPLEX
60HZ POWER DISTR SYSTEM
HYPERGOL MAINTENANCE FACILITY
SINGLE LINE DIAGRAMS
BLDGS M7-1011/M7-1061,
PNLS CT-1, CT-1-1 PD-2

SIZE F | DWG. NO. 79K08614 | REV F
PROJ. NO. | SHEET 29 OF

THIS COMPUTER DRAWING WAS CREATED IN MICROSTATION AND FILED UNDER THE DRAWING NUMBER E-26

ELECTRICAL ONE-LINE E M7-1061, M7-1061A & M7-1061B

NTS

THIS SPACE RESERVED

SYM	ZONE	DESCRIPTION	DATE	APPROVED

REVISIONS

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JONES EDMUNDS
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3910 S WASHINGTON AVE, SUITE 210, TITUSVILLE, FLORIDA 32780 / (321) 269-2950

SIGNATURES	DATE
DRAWN L. MILLER	06/10/13
CHECKED R. CHRUSZCZ	06/10/13
SUBMITTED W. Edmunds	06/10/13
ST of LICENSURE: FL LICENSE NO: 48898	06/10/13
APPROVED D. TOTH	6/10/13
I. OTERO	2008 15 1/3

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JOHN F. KENNEDY SPACE CENTER, NASA
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CLOSE/DEMOLISH FACILITIES AND STRUCTURES, VARIOUS LOCATIONS, PACKAGE 1

ELECTRICAL ONE-LINE E M7-1061 M7-1061A & M7-1061B

FILE NO. | SIZE F | DWG. NO. 79K39389 | REV
PROJ. NO. 97963.9 | SHEET 91

E14

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

FILE: \\TITUSMO01\drafting\14000 Nasa\212-01_Design-Close-Demo-Var-Facs-FY13&14\Contract Drawings\Package 1\Electrical\14000212P1-E14.dwg PRINTED: 6/10/2013 2:25 PM, BY USER: Kristian Perez LAST MODIFIED: 6/7/2013 9:53 AM, BY USER: LMiller

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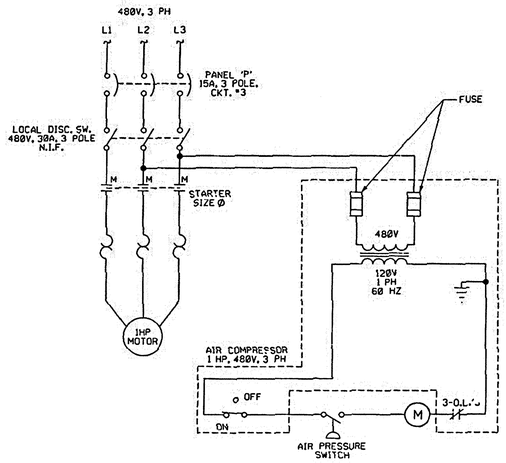
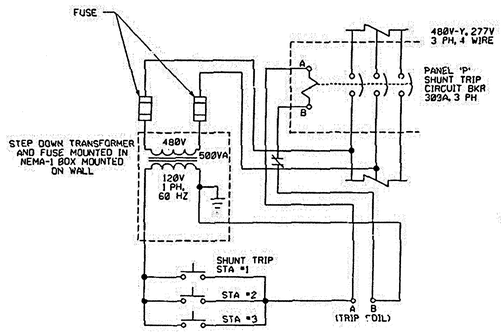
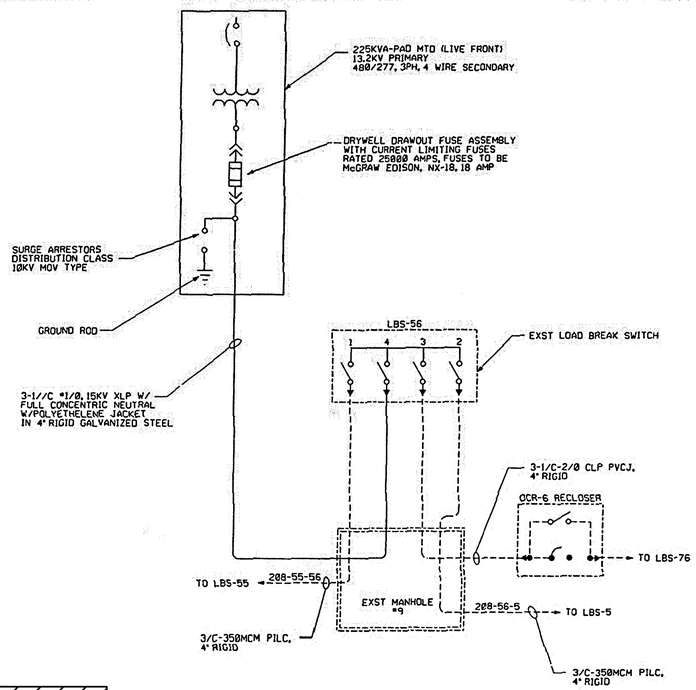


AIR COMPRESSOR CIRCUIT



EMERGENCY POWER OFF CIRCUIT
(SHUNT TRIP)

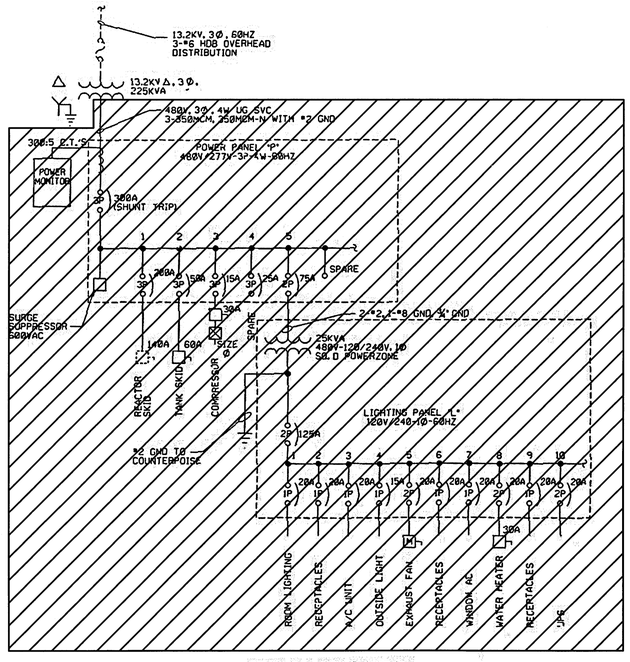


SINGLE LINE DIAGRAM

LIGHTING PANEL "L"							
CKT #	TYPE	POLE	TRIP	EQUIP. GND	WIRE	CONDUIT	REMARKS
1	—	1	20A	#12	2-#12	½"	ROOM LIGHTING
2	GFCI	1	20A	#12	2-#12	½"	RECEPTACLES
3	—	1	20A	#12	2-#12	½"	A/C RECEPTACLES
4	—	1	15A	#12	2-#12	½"	OUTSIDE LIGHT
5	—	2	20A	#12	2-#12	½"	EXHAUST FAN
6	GFCI	1	20A	#12	2-#12	½"	RECEPTACLES
7	—	1	20A	#12	2-#12	½"	WINDOW AC
8	—	2	20A	#12	2-#12	½"	WATER HEATER
9	GFCI	1	20A	#12	2-#12	½"	RECEPTACLES
10	—	2	20A	#10	2-#10	¾"	UPS

POWER PANEL "P" CIRCUIT BREAKER TYPE-480V, 3Ø, 300A							
CKT #	AMPS	POLE	TRIP	EQUIP. GND	WIRE	CONDUIT	REMARKS
1	145	3	200A	#4	3-#3/0	2"	REACTOR SKID
2	30	3	50A	#6	3-#6	¾"	TANK SKID
3	6	3	15A	#12	3-#12	¾"	COMPRESSOR
4	1	3	15A	#12	3-#12	¾"	METER PT & CPT
5	52	2	75A	#6	2-#2	1"	25KVA PWR ZONE
6 – 10	SPARE		MINIMUM OF 4 SPARE 3P POSITIONS				

PANEL SCHEDULES



SINGLE LINE DIAGRAM

SYM	ZONE	DESCRIPTION	DATE	APPROVED
		REVISIONS		

SIGNATURES		DATE
DRAWN	D. ROSS	07/21/98
CHECKED	C. GARNER	07/21/98
ENGINEER	C. GARNER	07/21/98
	C. HOOPER	07/21/98
SUBMITTED	M. DE TIERRO	07/21/98
APPROVED	C. HALLOY	9/24/98
TITLE	BRANCH MANAGER	

UNLESS OTHERWISE SPECIFIED — DRAWING NO. IS SAME — TRACING NO. — PROCESS — SERIES — ADJS — NOT APPLICABLE

C0613700.004

COMPUTER DESIGN FILE NAME

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EG&G FLORIDA

PREPARED FOR NASA UNDER NASA CONTRACT NAS10-12000

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KENNEDY SPACE CENTER, FLORIDA

KSC INDUSTRIAL AREA
RAYOX FACILITY M6-0897

PROPELLANT WASTEWATER TREATMENT SYSTEM
RAYOX PROCESS
SINGLE LINE DIAGRAMS & PANEL SCHEDULES

SIZE F | DWG. NO. 81K06137 | REV

PROJ. NO. 12871 | SHEET 4 of 5

E-1

ELECTRICAL ONE-LINE BUILDING M6-0897

NTS

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SYM	ZONE	DESCRIPTION	DATE	APPROVED
		REVISIONS		

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3910 S WASHINGTON AVE, SUITE 210, TITUSVILLE, FLORIDA 32780 / (321) 269-2950

SIGNATURES	DATE	
DRAWN L. MILLER	06/10/13	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION JOHN F. KENNEDY SPACE CENTER, NASA KENNEDY SPACE CENTER, FLORIDA
CHECKED R. CHRUSZCZ	06/10/13	CLOSE/DEMOLISH FACILITIES AND STRUCTURES, VARIOUS LOCATIONS, PACKAGE 1
SUBMITTED	06/10/13	
ST of LICENSURE: FL LICENSE NO: 48898	06/10/13	ELECTRICAL ONE-LINE BUILDING M6-0897
APPROVED D. TOTH	6/10/13	FILE NO. — SIZE F — DWG. NO. 79K39389 — REV
I. OTERO	208 11/25	PROJ. NO. 97963.9 — SHEET 92

E15

FILE: \\TITUSM001\data\Proj\14000 Noaa\212-01 Design-Close-Demo-Var-Facs-FY13&14\Control Drawings\Package 1\Electrical\14000212P1-E15.dwg PRINTED: 6/10/2013 2:23 PM, BY USER: Kristian Perez LAST MODIFIED: 6/7/2013 9:53 AM, BY USER: LMiller

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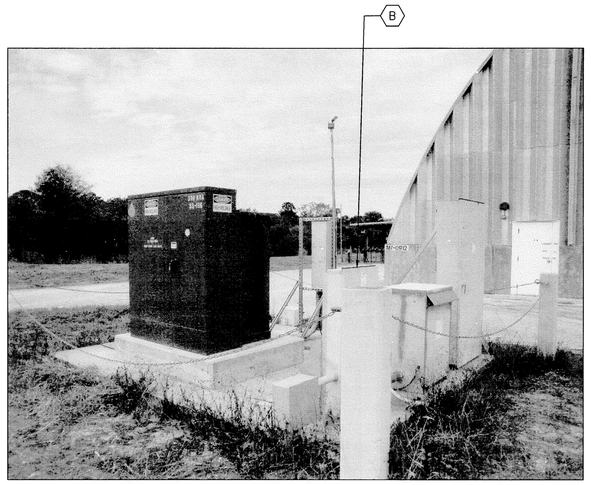
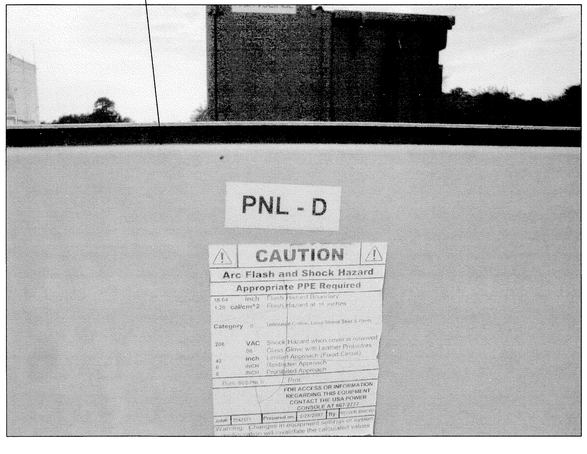
TO REMAIN

- (A) CONCRETE LIGHT POLE
- (B) PANEL D

SITE LIGHT TO REMAIN (1) E2
NTS



ELECTRICAL SERVICE PAD (2) E2
NTS



SOURCE PANEL PANEL-D (3) E2
NTS

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SYM	ZONE	DESCRIPTION	DATE	APPROVED

REVISIONS

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SIGNATURES	DATE
DRAWN L. MILLER	06/10/13
CHECKED R. CHRUSZCZ	06/10/13
SUBMITTED M. DOMBROWSKI	06/10/13
ST of LICENSURE: FL LICENSE NO: 48898	06/10/13
APPROVED D. TOTH	6/10/13
I. OTERO	2013 10/17

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KENNEDY SPACE CENTER, FLORIDA

CLOSE/DEMOLISH FACILITIES AND STRUCTURES, VARIOUS LOCATIONS, PACKAGE 1

BUILDING M7-0862 PHOTOS

FILE NO.	SIZE	DWG. NO.	REV
	F	79K39389	
PROJ. NO. 97963.9		SHEET 93	

E16

FILE: \\TITUSVR01\data\Projects\14000 Noun\212-01_Design-Close-Demo-Ver-Fscs-FY13&14\Contract Drawings\Package 1\Electrical\14000212P1-E16.dwg PRINTED: 6/10/2013 2:23 PM, BY USER: Kristian Perez LAST MODIFIED: 5/21/2013 11:12 AM, BY USER: LMiller

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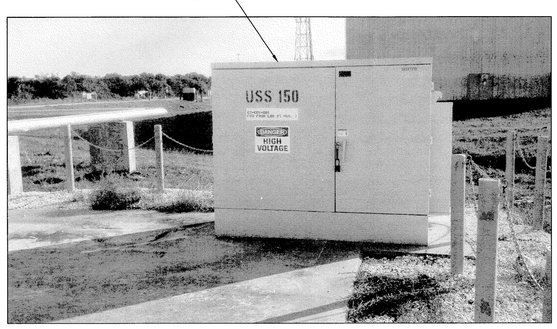
FLAG NOTES

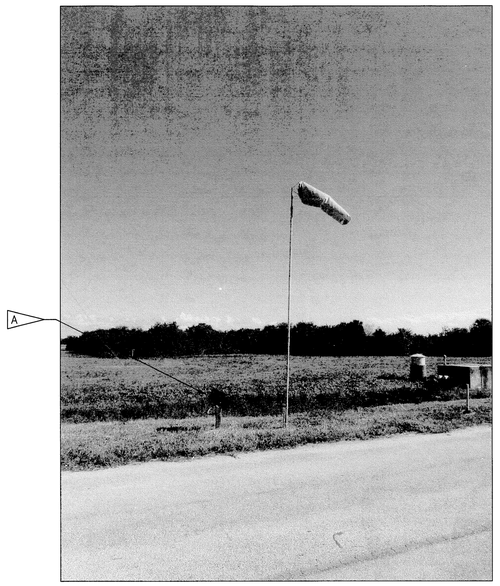
A — SPOT LIGHT TO BE DEMOLISHED.

TO REMAIN

A — USS 150



USS 150 1 E3
NTS



WINDSOCK AND GROUND LIGHT 2 E3
NTS

MAIN ELECTRICAL FEEDERS TO BLDG M7-0961 3 E3
NTS

THIS SPACE RESERVED

SYM	ZONE	DESCRIPTION	DATE	APPROVED

REVISIONS

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3910 S WASHINGTON AVE, SUITE 210, TITUSVILLE, FLORIDA 32780 / (321) 269-2950

SIGNATURES	DATE
DRAWN L. MILLER	06/10/13
CHECKED R. CHRUSZCZ	06/10/13
SUBMITTED M. COMER	06/10/13
ST of LICENSURE: FL LICENSE NO: 48898	06/10/13
APPROVED D. TOTH	6/10/13
I. OTERO	6/10/13

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CLOSE/DEMOLISH FACILITIES AND STRUCTURES, VARIOUS LOCATIONS, PACKAGE 1

BUILDING M7-0961 PHOTOS

FILE NO.	SIZE	DWG. NO.	REV
	F	79K39389	
PROJ. NO. 97963.9		SHEET 94	

E17

FILE: \\TITUSWORK\Prethey\14000 Nasa\212-01_Design-Close-Demo-Var-Facs-FY13M4\Contract Drawings\Package 1\Electrical\14000212P1-E17.dwg PRINTED: 6/10/2013 2:26 PM, BY USER: Kristen Perez LAST MODIFIED: 6/6/2013 7:40 AM, BY USER: LMiller

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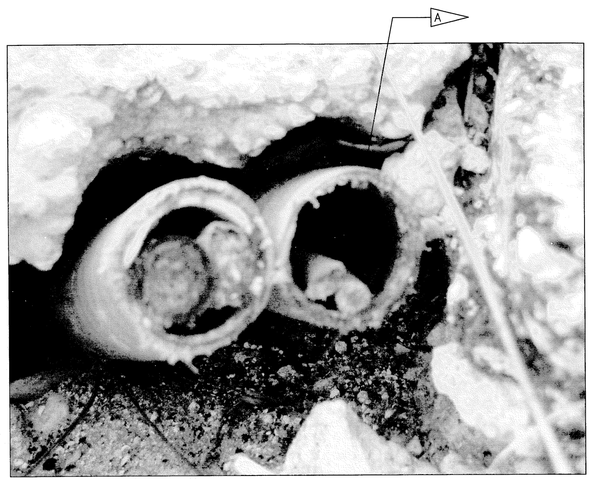
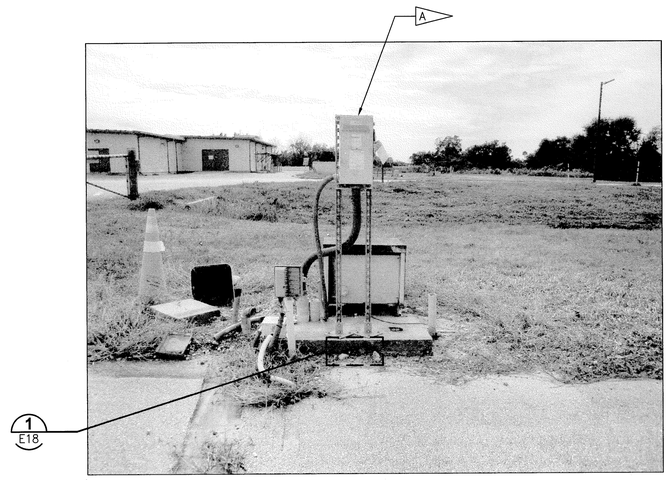
FLAG NOTES

A — DEMOLISH ALL ELECTRICAL EQUIPMENT AT HMF MIX CRIB (M7-1012) INCLUDING ALL CONDUCTORS AND CONDUIT. DEMOLISH EXISTING CONDUCTORS FROM 45A DISCONNECT SWITCH TO M7-1104. AS OF AUGUST 21, 2012, THE SECONDARY CONNECTION AT TRANSFORMER T2 HAS BEEN DISCONNECTED.

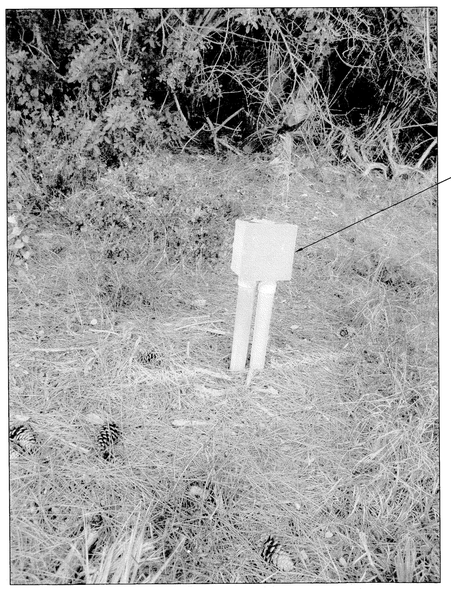
B — DEMOLISH JUNCTION BOXES



CONDUCTORS TO BE DEMOLISHED (1)
NTS
E4,E18



ELECTRICAL RACK TO BE DEMOLISHED (2)
NTS
E4



COMMUNICATION JUNCTION BOX TO BE DEMOLISHED (3)
NTS
E4

THIS SPACE RESERVED

SYM	ZONE	DESCRIPTION	DATE	APPROVED

REVISIONS

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3910 S WASHINGTON AVE, SUITE 210, TITUSVILLE, FLORIDA 32780 / (321) 289-2950

SIGNATURES	DATE
DRAWN L. MILLER	06/10/13
CHECKED R. CHRUSZCZ	06/10/13
SUBMITTED M. ADAMS	06/10/13
ST of LICENSURE: FL LICENSE NO: 48898	06/10/13
APPROVED D. TOTH	6/10/13
J. OTERO	6/10/13

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CLOSE/DEMOLISH FACILITIES AND STRUCTURES, VARIOUS LOCATIONS, PACKAGE 1

M7-1012 PHOTOS

FILE NO.	SIZE	DWG. NO.	REV
	F	79K39389	
PROJ. NO. 97963.9		SHEET 95	

E18

FILE: \\TITUSNAS01\prettyhy\14000 Nasa\212-01_Design-Close-Demo-Var-Fcns-FY13&14\Contract Drawings\Package 1\Declined\14000212P1-E18.dwg PRINTED: 6/10/2013 2:26 PM, BY USER: Kristen Perez LAST MODIFIED: 6/6/2013 7:42 AM, BY USER: L

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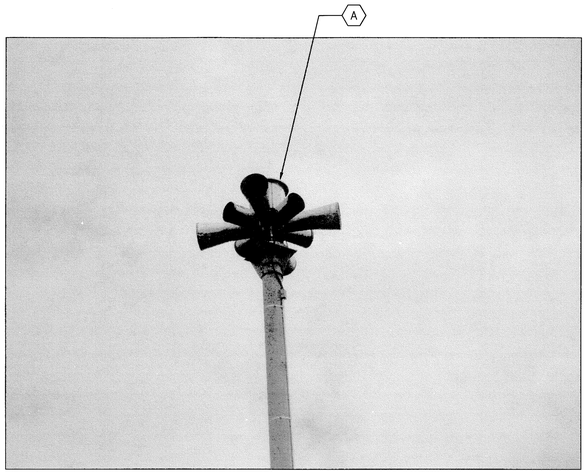
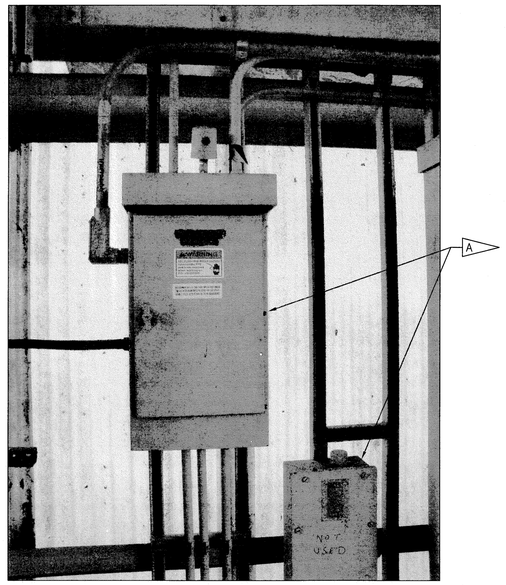
SPOT LIGHT TO BE DEMOLISHED 1 E6
NTS

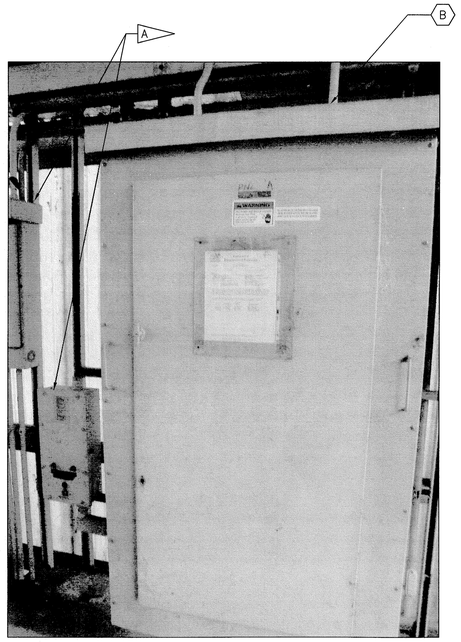


MOUNTED SPEAKER TO REMAIN 2 E6
NTS

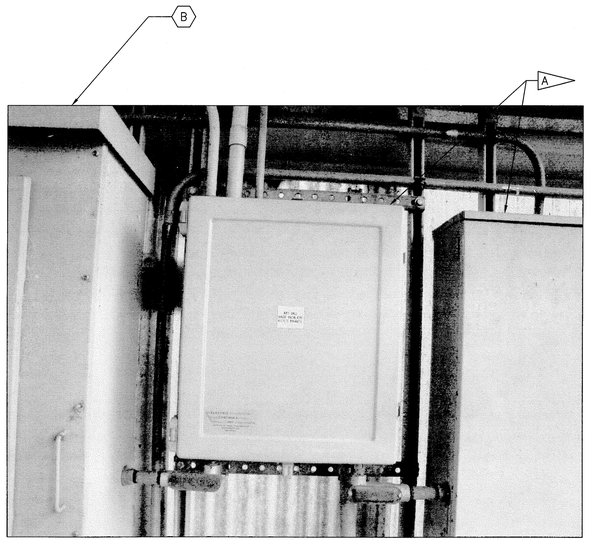


PANELS TO BE DEMOLISHED 3 E6
NTS

EXISTING PANELS 4 E6
NTS



EXISTING PANELS 5 E6
NTS



EXISTING PANELS 6 E6
NTS

FLAG NOTES

A — UNLESS OTHERWISE NOTED, DEMOLISH ALL ELECTRICAL EQUIPMENT AT HEATING PLANT (M7-1112) INCLUDING ALL CONDUCTORS AND CONDUIT. DEMOLISH EXISTING ELECTRIC EQUIPMENT INCLUDING CONDUCTORS AND CONDUIT TO PANEL A.

TO REMAIN

A — RE-FEED CONCRETE POLE AND SIREN FROM PANEL A

B — PANEL A

THIS SPACE RESERVED

SYM	ZONE	DESCRIPTION	DATE	APPROVED

REVISIONS

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SIGNATURES	DATE
DRAWN L. MILLER	06/10/13
CHECKED R. CHRUSZCZ	06/10/13
SUBMITTED	06/10/13
ST of LICENSURE: FL LICENSE NO: 48898	06/10/13
APPROVED D. TOTH	6/10/13
L. OTERO	6/10/13

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CLOSE/DEMOLISH FACILITIES AND STRUCTURES, VARIOUS LOCATIONS, PACKAGE 1

BUILDING M7-1112 PHOTOS

FILE NO.	SIZE	DWG. NO.	REV
	F	79K39389	
PROJ. NO. 97963.9		SHEET 96	

E19

FILE: \\TITUSMO01\data\Proj\14000 Noaa\212-01_Design-Close-Demo-Var-Fcns-FY13&14\Contract Drawings\Package 1\Electrical\14000212P1-E19.dwg PRINTED: 6/10/2013 2:26 PM, BY USER: Kristian Perez LAST MODIFIED: 6/7/2013 9:54 AM, BY USER: LMiller

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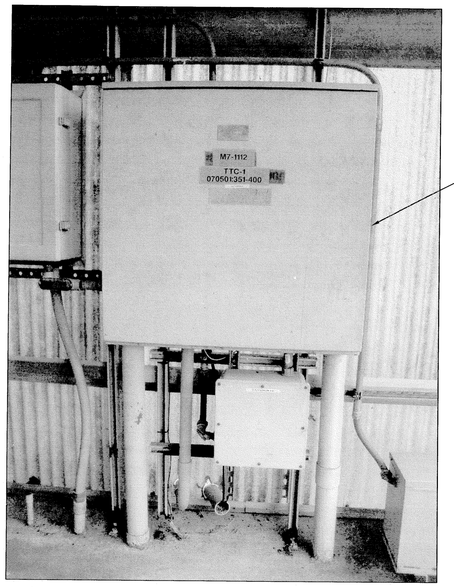
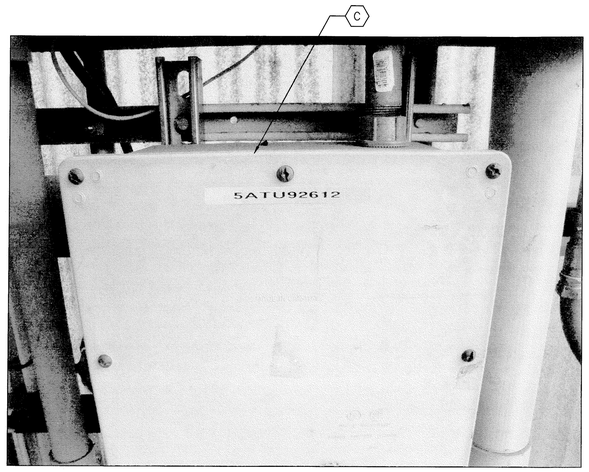
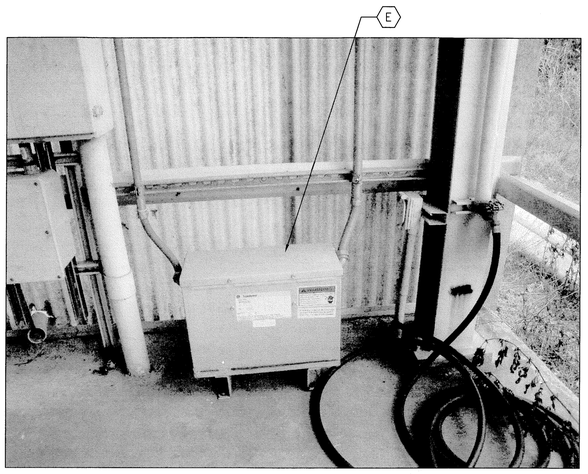


TTC PANEL TTC-1 TO REMAIN 1 E6
NTS



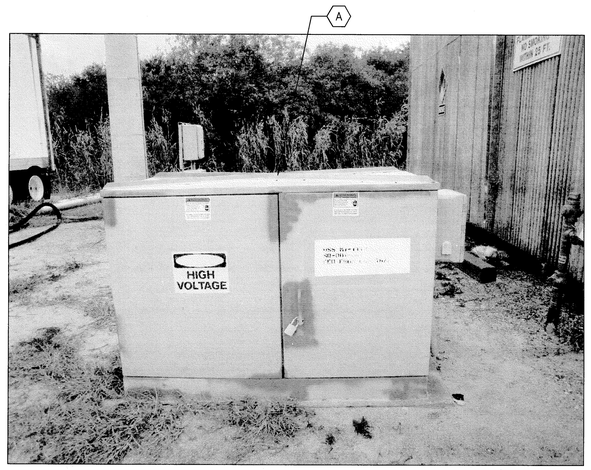
JUNCTION BOX TO REMAIN 2 E6
NTS



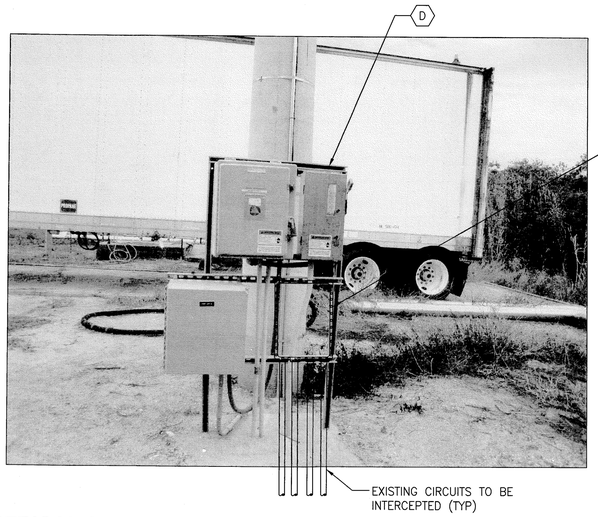
TRANSFORMER TO REMAIN 3 E6
NTS

TO REMAIN

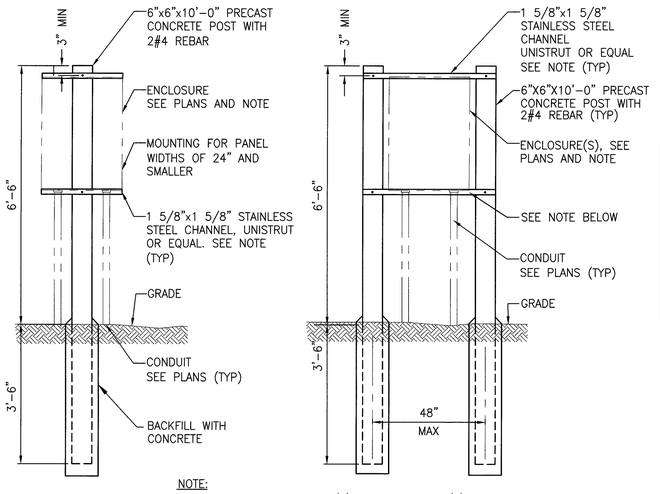
- A — USS SS-190
- B — TTC PANEL TTC-1
- C — COMMUNICATIONS JUNCTION BOX
- D — ELECTRICAL SERVICE RACK
- E — LOCAL TRANSFORMER



USS SS-190 TO REMAIN 4 E6
NTS



ELECTRICAL SERVICE RACK FOR OUTDOOR SPEAKER TO REMAIN 5 E6
NTS



NOTE:
SECURE CHANNELS TO POST(S) AND ENCLOSURE(S) TO CHANNELS WITH STAINLESS STEEL HARDWARE.

TYPICAL EQUIPMENT MOUNTING ON CONCRETE POST(S) DETAIL 6 E6
NTS

THIS SPACE RESERVED

SYM	ZONE	DESCRIPTION	DATE	APPROVED

REVISIONS

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SIGNATURES	DATE
DRAWN L. MILLER	06/10/13
CHECKED R. CHRUSZCZ	06/10/13
SUBMITTED M. [illegible]	06/10/13
ST of LICENSURE: FL LICENSE NO: 48898	06/10/13
APPROVED D. TOTH	6/10/13
I. OTERO	6/10/13

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CLOSE/DEMOLISH FACILITIES AND STRUCTURES, VARIOUS LOCATIONS, PACKAGE 1

BUILDING M7-1112 PHOTOS

FILE NO.	SIZE	DWG. NO.	REV
	F	79K39389	
PROJ. NO. 97963.9		SHEET 97	

E20

FILE: \\TITSRV01\Drafting\14000 Noun\212-01_Design-Close-Demo-Var-Facs-FY13&14\Contract Drawings\Package 1\Electrical\140002121P1-E20.dwg PRINTED: 6/10/2013 2:26 PM, BY USER: Kristian Perez LAST MODIFIED: 6/6/2013 7:48 AM, BY USER: LMiller

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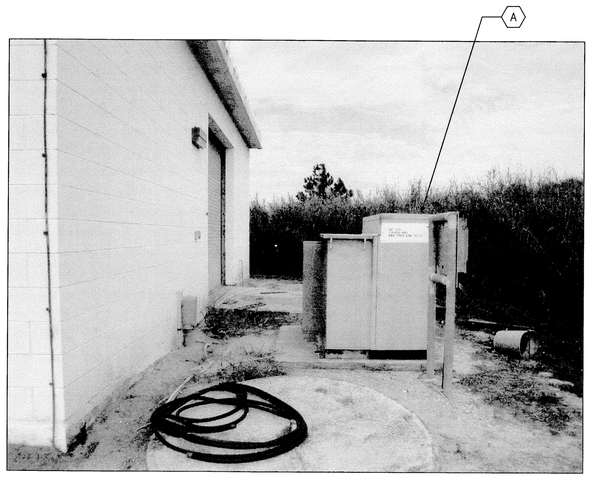
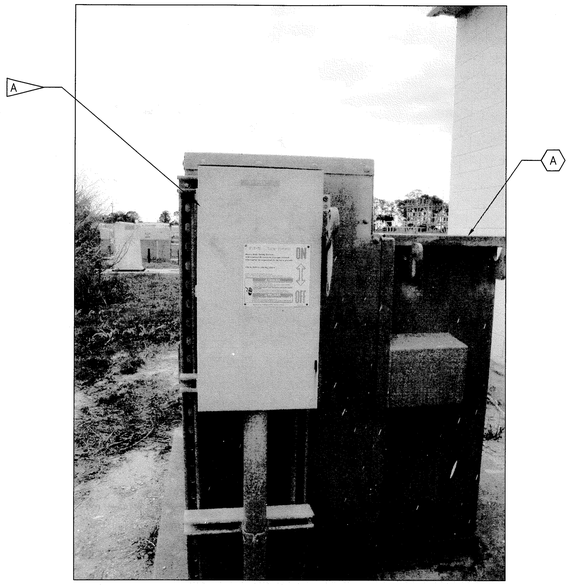
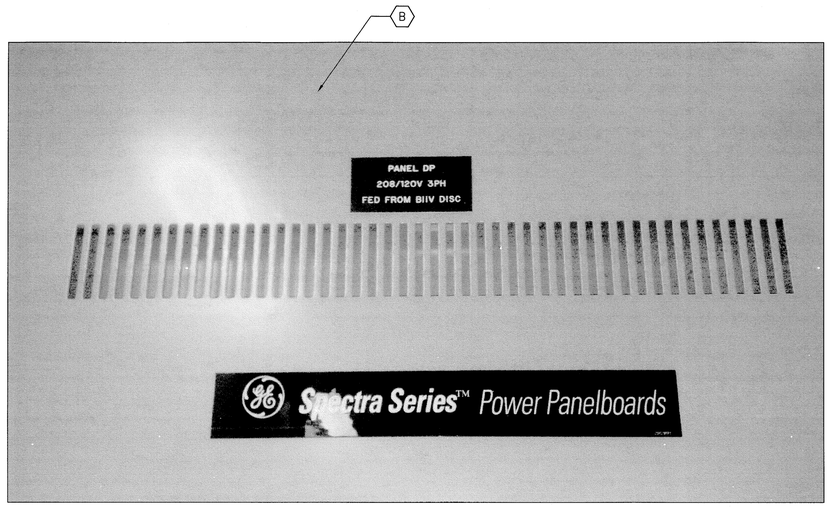


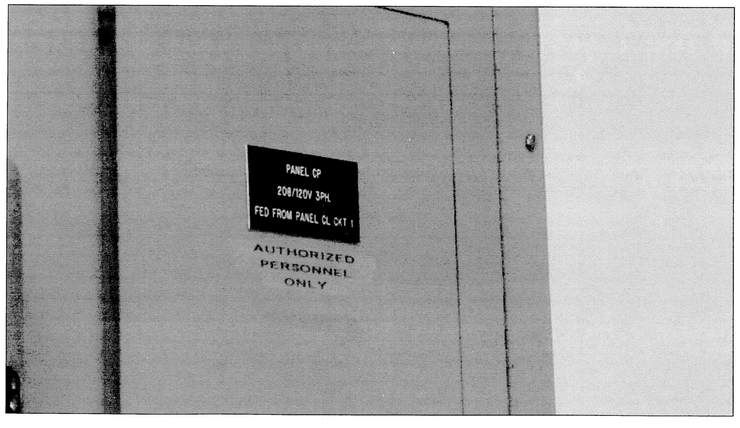
SS 123 TO REMAIN (1 / E7)
NTS



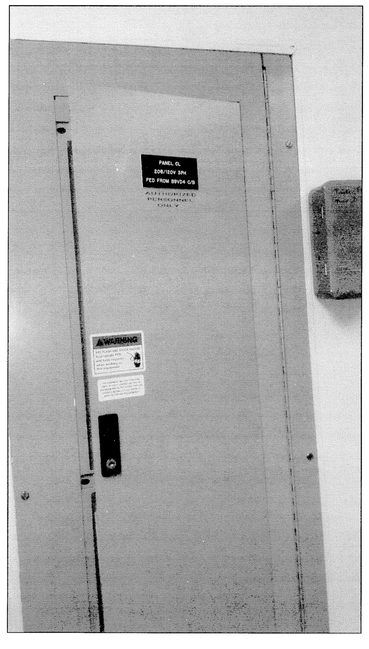
DISCONNECT SWITCH THAT FEEDS M6-0897 TO BE DEMOLISHED (2 / E7)
NTS



SOURCE PANEL DP TO REMAIN (3 / E7)
NTS



PANEL CP TO BE DEMOLISHED (4 / E7)
NTS



PANEL CL TO BE DEMOLISHED (5 / E7)
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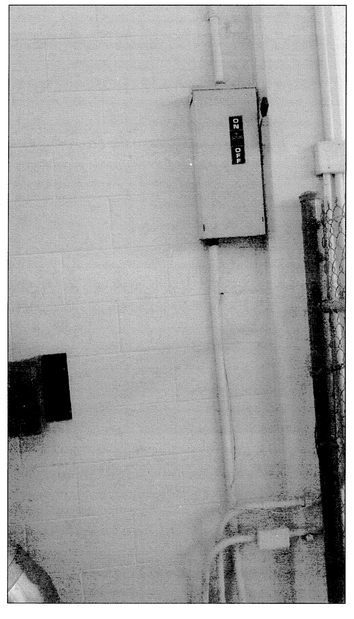

DISCONNECT SWITCH TO BE DEMOLISHED (6 / E7)
NTS

FLAG NOTE

A — DEMOLISH DISCONNECT SWITCH INCLUDING BUT NOT LIMITED TO CONDUITS, CONDUCTORS, MOUNTING RACK, AND ASSOCIATED HARDWARE AND APPURTENANCES.

TO REMAIN

A — SS 123

B — PANEL DP

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SYM	ZONE	DESCRIPTION	DATE	APPROVED

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CLOSE/DEMOLISH FACILITIES AND STRUCTURES, VARIOUS LOCATIONS, PACKAGE 1

BUILDING M6-0897 PHOTOS

E21

FILE NO.	SIZE	DWG. NO.	REV
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PROJ. NO. 97963.9		SHEET 98 OF 98	

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