Attachment J-7

GRC Lewis Field Maps

Map1:	Map of Lewis Field Buildings and Structures
Map 2:	Perimeter Security Fencing and Remotely Operated Security Gates
Map 3:	Paved Surface Maintenance and Snow Plowing Requirements
Map 4:	Grounds Maintenance Requirements Lawn mowing and Landscape Maintenance
Map 5:	Grounds Maintenance Requirements Tree Trimming and Treatment
Map 6:	Surface Storm Water Control Features
Map 7:	Oil/Water Separators, Underground Holding Tank and Water Quality Units

GLENN MAPPING SYSTEM

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
JOHN H. GLENN RESEARCH CENTER
LEWIS FIELD & PLUM BROOK STATION, OHIO

FORM II CONTRACT MAP - RFP NNC13ZFD017J

List of Maps

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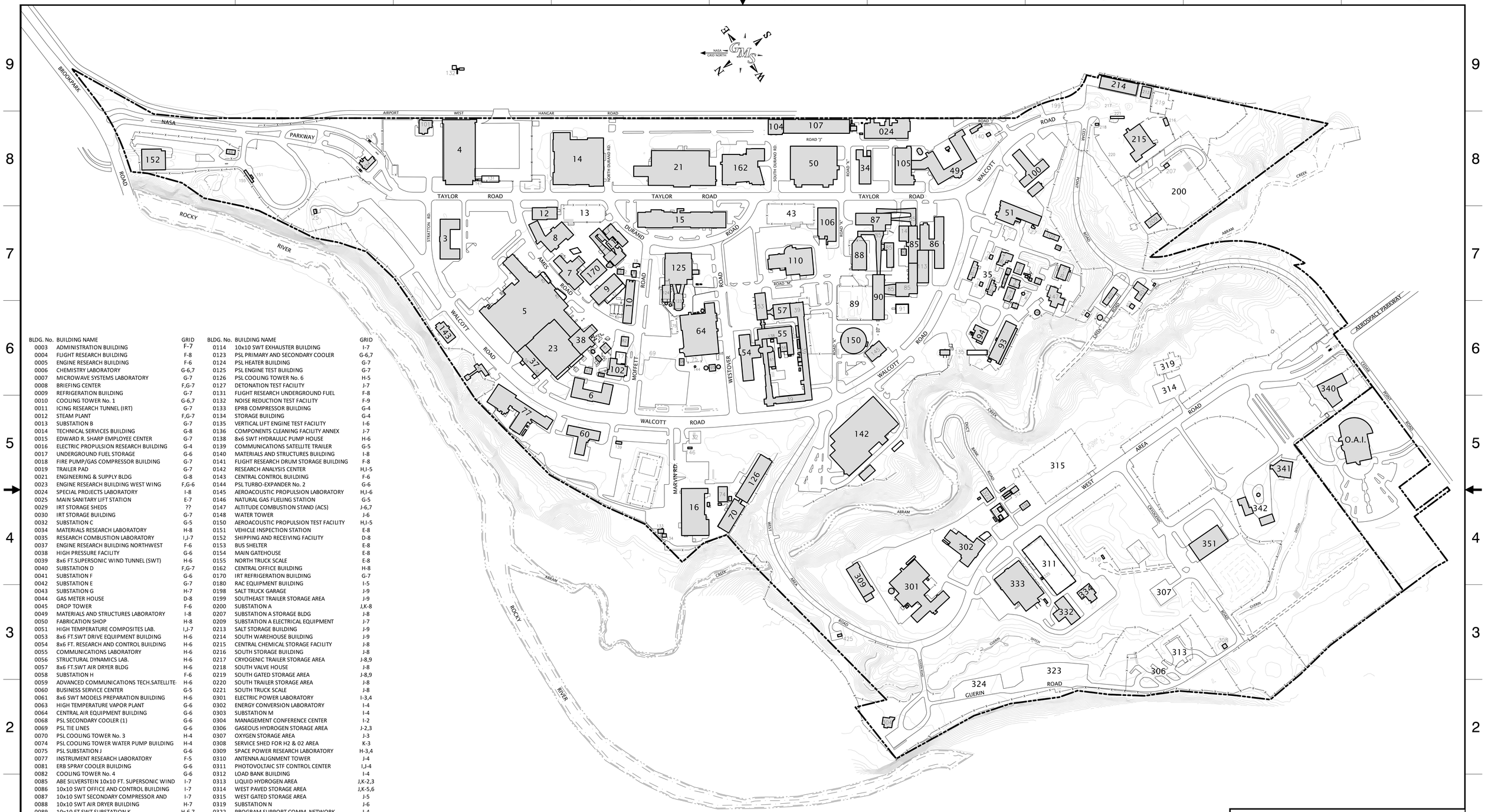

BLDG. No.	BUILDING NAME	GRID
0003	ADMINISTRATION BUILDING	F-7
0004	FLIGHT RESEARCH BUILDING	F-8
0005	ENGINE RESEARCH BUILDING	F-6
0006	CHEMISTRY LABORATORY	G-6,7
0007	MICROWAVE SYSTEMS LABORATORY	G-7
0008	BRIEFING CENTER	F,G-7
0009	REFRIGERATION BUILDING	G-7
0010	COOLING TOWER No. 1	G-6,7
0011	ICING RESEARCH TUNNEL (IRT)	G-7
0012	STEAM PLANT	F,G-7
0013	SUBSTATION B	G-7
0014	TECHNICAL SERVICES BUILDING	G-8
0015	EDWARD R. SHARP EMPLOYEE CENTER	G-7
0016	ELECTRIC PROPULSION RESEARCH BUILDING	G-4
0017	UNDERGROUND FUEL STORAGE	G-6
0018	FIRE PUMP/GAS COMPRESSOR BUILDING	G-7
0019	TRAILER PAD	G-7
0021	ENGINEERING & SUPPLY BLDG	G-8
0023	ENGINE RESEARCH BUILDING WEST WING	F,G-6
0024	SPECIAL PROJECTS LABORATORY	I-8
0025	MAIN SANITARY LIFT STATION	E-7
0029	IRT STORAGE SHEDS	??
0030	IRT STORAGE BUILDING	G-7
0032	SUBSTATION C	G-5
0034	MATERIALS RESEARCH LABORATORY	H-8
0035	RESEARCH COMBUSTION LABORATORY	I,J-7
0037	ENGINE RESEARCH BUILDING NORTHWEST	F-6
0038	HIGH PRESSURE FACILITY	G-6
0039	8x6 FT.SUPERSONIC WIND TUNNEL (SWT)	H-6
0040	SUBSTATION D	F,G-7
0041	SUBSTATION F	G-6
0042	SUBSTATION E	G-7
0043	SUBSTATION G	H-7
0044	GAS METER HOUSE	D-8
0045	DROP TOWER	F-6
0049	MATERIALS AND STRUCTURES LABORATORY	I-8
0050	FABRICATION SHOP	H-8
0051	HIGH TEMPERATURE COMPOSITES LAB.	I,J-7
0053	8x6 FT.SWT DRIVE EQUIPMENT BUILDING	H-6
0054	8x6 FT. RESEARCH AND CONTROL BUILDING	H-6
0055	COMMUNICATIONS LABORATORY	H-6
0056	STRUCTURAL DYNAMICS LAB.	H-6
0057	8x6 FT.SWT AIR DRYER BLDG	H-6
0058	SUBSTATION H	F-6
0059	ADVANCED COMMUNICATIONS TECH.SATELLITE	H-6
0060	BUSINESS SERVICE CENTER	G-5
0061	8x6 SWT MODELS PREPARATION BUILDING	H-6
0063	HIGH TEMPERATURE VAPOR PLANT	G-6
0064	CENTRAL AIR EQUIPMENT BUILDING	G-6
0068	PSL SECONDARY COOLER (1)	G-6
0069	PSL TIE LINES	G-6
0070	PSL COOLING TOWER No. 3	H-4
0074	PSL COOLING TOWER WATER PUMP BUILDING	H-4
0075	PSL SUBSTATION J	G-6
0077	INSTRUMENT RESEARCH LABORATORY	F-5
0081	ERB SPRAY COOLER BUILDING	G-6
0082	COOLING TOWER No. 4	G-6
0085	ABE SILVERSTEIN 10x10 FT. SUPERSONIC WIND	I-7
0086	10x10 SWT OFFICE AND CONTROL BUILDING	I-7
0087	10x10 SWT SECONDARY COMPRESSOR AND	I-7
0088	10x10 SWT AIR DRYER BUILDING	H-7
0089	10x10 FT.SWT SUBSTATION K	H-6,7
0090	10x10 SWT MAIN COMPRESSOR AND DRIVE	I-6,7
0091	10x10 SWT LOW PRESSURE FUEL PUMP	I-6
0092	10x10 SWT HIGH PRESSURE FUEL PUMP	I-7
0093	10x10 FT.SWT COOLING TOWER No. 5	I-6
0094	10x10 SWT COOLING TOWER WATER PUMP	I-6
0095	PSL DESICCANT AIR DRYER	G-6
0098	ENGINE COMPONENTS RESEARCH LABORATORY	G-6
0099	ERB COMBUSTION AIR HEATER	G-6
0100	ROCKET OPERATIONS BUILDING	J-8
0101	OPERATIONS/INTEGRATION BUILDING	F-8
0102	ENGINE COMPONENTS RESEARCH LABORATORY	G-6
0104	GARAGE	H-8
0105	MATERIALS PROCESSING LABORATORY	I-8
0106	BASIC MATERIALS LABORATORY	H-7
0107	MAINTENANCE AND REPAIR BUILDING	H-8
0108	GATEHOUSE, MAIN AND GUARD STATION	E-8
0109	HEATED TUBE FACILITY	J-7
0110	SPACE EXPERIMENTS LABORATORY	H-7
0113	10x10 SWT SHOP BUILDING	I-7

BLDG. No.	BUILDING NAME	GRID
0114	10x10 SWT EXHAUSTER BUILDING	I-7
0123	PSL PRIMARY AND SECONDARY COOLER	G-6,7
0124	PSL HEATER BUILDING	G-7
0125	PSL ENGINE TEST BUILDING	G-7
0126	PSL COOLING TOWER No. 6	H-5
0127	DETONATION TEST FACILITY	J-7
0131	FLIGHT RESEARCH UNDERGROUND FUEL	F-8
0132	NOISE REDUCTION TEST FACILITY	F-9
0133	EPRB COMPRESSOR BUILDING	G-4
0134	STORAGE BUILDING	G-4
0135	VERTICAL LIFT ENGINE TEST FACILITY	I-6
0136	COMPONENTS CLEANING FACILITY ANNEX	J-7
0138	8x6 SWT HYDRAULIC PUMP HOUSE	H-6
0139	COMMUNICATIONS SATELLITE TRAILER	G-5
0140	MATERIALS AND STRUCTURES BUILDING	I-8
0141	FLIGHT RESEARCH DRUM STORAGE BUILDING	F-8
0142	RESEARCH ANALYSIS CENTER	H,I-5
0143	CENTRAL CONTROL BUILDING	F-6
0144	PSL TURBO-EXPANDER No. 2	G-6
0145	AEROACOUSTIC PROPULSION LABORATORY	H,I-6
0146	NATURAL GAS FUELING STATION	G-5
0147	ALTITUDE COMBUSTION STAND (ACS)	J-6,7
0148	WATER TOWER	J-6
0150	AEROACOUSTIC PROPULSION TEST FACILITY	H,I-5
0151	VEHICLE INSPECTION STATION	E-8
0152	SHIPPING AND RECEIVING FACILITY	D-8
0153	BUS SHELTER	E-8
0154	MAIN GATEHOUSE	E-8
0155	NORTH TRUCK SCALE	E-8
0162	CENTRAL OFFICE BUILDING	H-8
0170	IRT REFRIGERATION BUILDING	G-7
0180	RAC EQUIPMENT BUILDING	I-5
0198	SALT TRUCK GARAGE	J-9
0199	SOUTHEAST TRAILER STORAGE AREA	J-9
0200	SUBSTATION A	J,K-8
0207	SUBSTATION A STORAGE BLDG	J-8
0209	SUBSTATION A ELECTRICAL EQUIPMENT	J-7
0213	SALT STORAGE BUILDING	J-9
0214	SOUTH WAREHOUSE BUILDING	J-9
0215	CENTRAL CHEMICAL STORAGE FACILITY	J-8
0216	SOUTH STORAGE BUILDING	J-8
0217	CRYOGENIC TRAILER STORAGE AREA	J-8,9
0218	SOUTH VALVE HOUSE	J-8
0219	SOUTH GATED STORAGE AREA	J-8,9
0220	SOUTH TRAILER STORAGE AREA	J-8
0221	SOUTH TRUCK SCALE	J-8
0301	ELECTRIC POWER LABORATORY	I-3,4
0302	ENERGY CONVERSION LABORATORY	I-4
0303	SUBSTATION M	I-4
0304	MANAGEMENT CONFERENCE CENTER	I-2
0306	GASEOUS HYDROGEN STORAGE AREA	J-2,3
0307	OXYGEN STORAGE AREA	J-3
0308	SERVICE SHED FOR H2 & 02 AREA	K-3
0309	SPACE POWER RESEARCH LABORATORY	H-3,4
0310	ANTENNA ALIGNMENT TOWER	J-4
0311	PHOTOVOLTAIC STF CONTROL CENTER	I,J-4
0312	LOAD BANK BUILDING	I-4
0313	LIQUID HYDROGEN AREA	J,K-2,3
0314	WEST PAVED STORAGE AREA	J,K-5,6
0315	WEST GATED STORAGE AREA	J-5
0319	SUBSTATION N	J-6
0322	PROGRAM SUPPORT COMM. NETWORK	I-4
0323	GUERIN TRAILER STORAGE AREA	I,J-2
0324	GUERIN PAVED STORAGE AREA	J-2
0332	STRUCTURAL ASSEMBLY BUILDING	J-3
0333	POWER SYSTEMS FACILITY	I,J-3,4
0334	FUEL CELL TESTING FACILITY	J-3,4
0335	REMOTE USER SOURCE SIMULATOR POWER	J-4
0336	GREENLAB RESEARCH FACILITY	I,J-4
0337	SOLAR CONCENTRATORS	I-4
0340	CHILD DEVELOPMENT CENTER	K,L-5,6
0341	FITNESS CENTER	K-5
0342	PICNIC PAVILION	K-4
0351	LOGISTICS AND MAINTENANCE BUILDING	K-4
0399	GATEHOUSE (WEST)	K-6
0401	SHOP BUILDING	J-6
0402	SMALL-SCALE MULTI-PURPOSE RESEARCH	J-6
0403	TEST CELL 7	J-6
0404	CHEMICAL STORAGE SHED	J-7
0414	ACS BOTTLE FARM ELECTRICAL BUILDING	J-6
0425	WEST AREA SANITARY LIFT STATION	H-3

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Map of Lewis Field
Buildings and Structures

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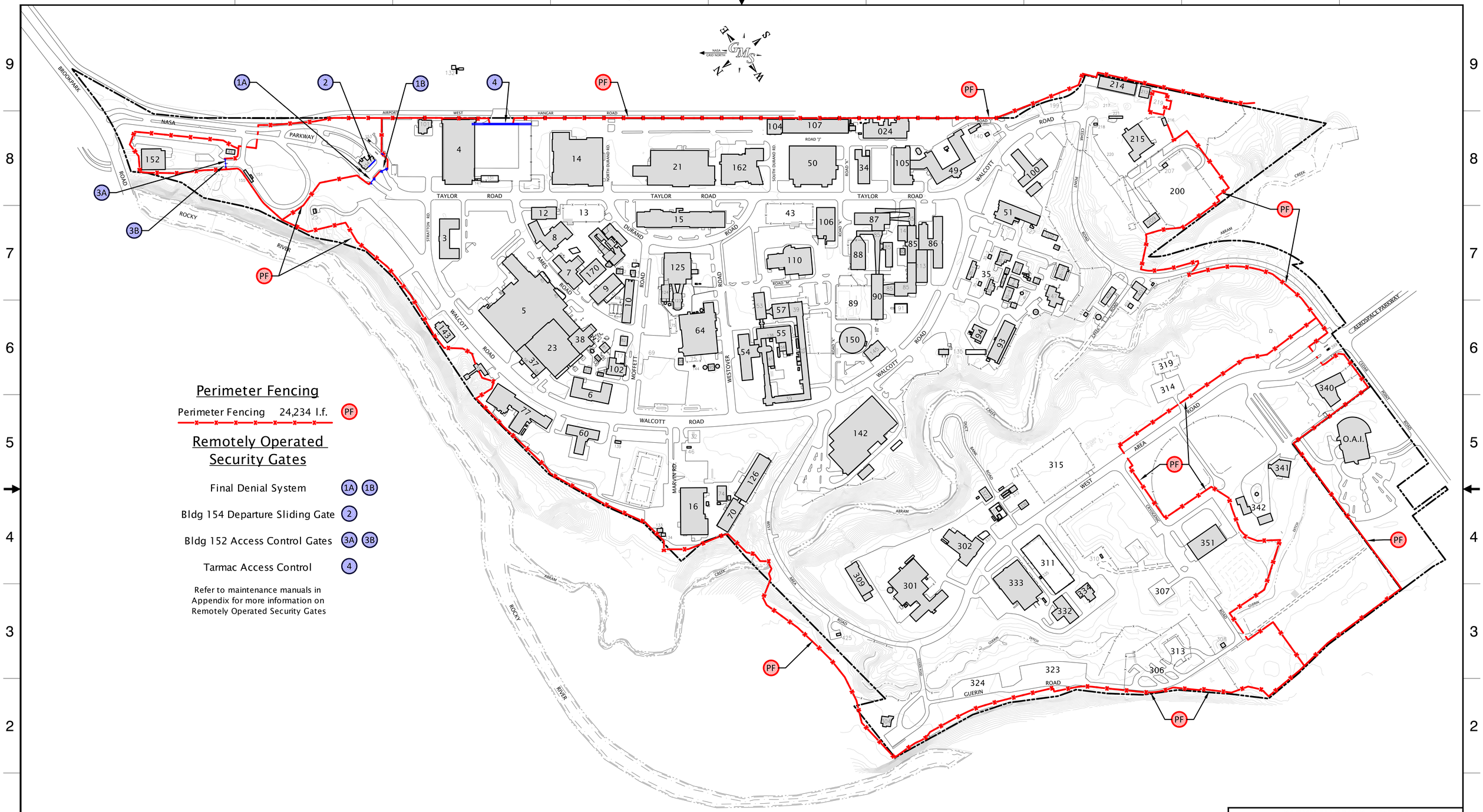

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Map of Lewis Feld
Perimeter Security Fencing and
Remotely Operated Security Gates

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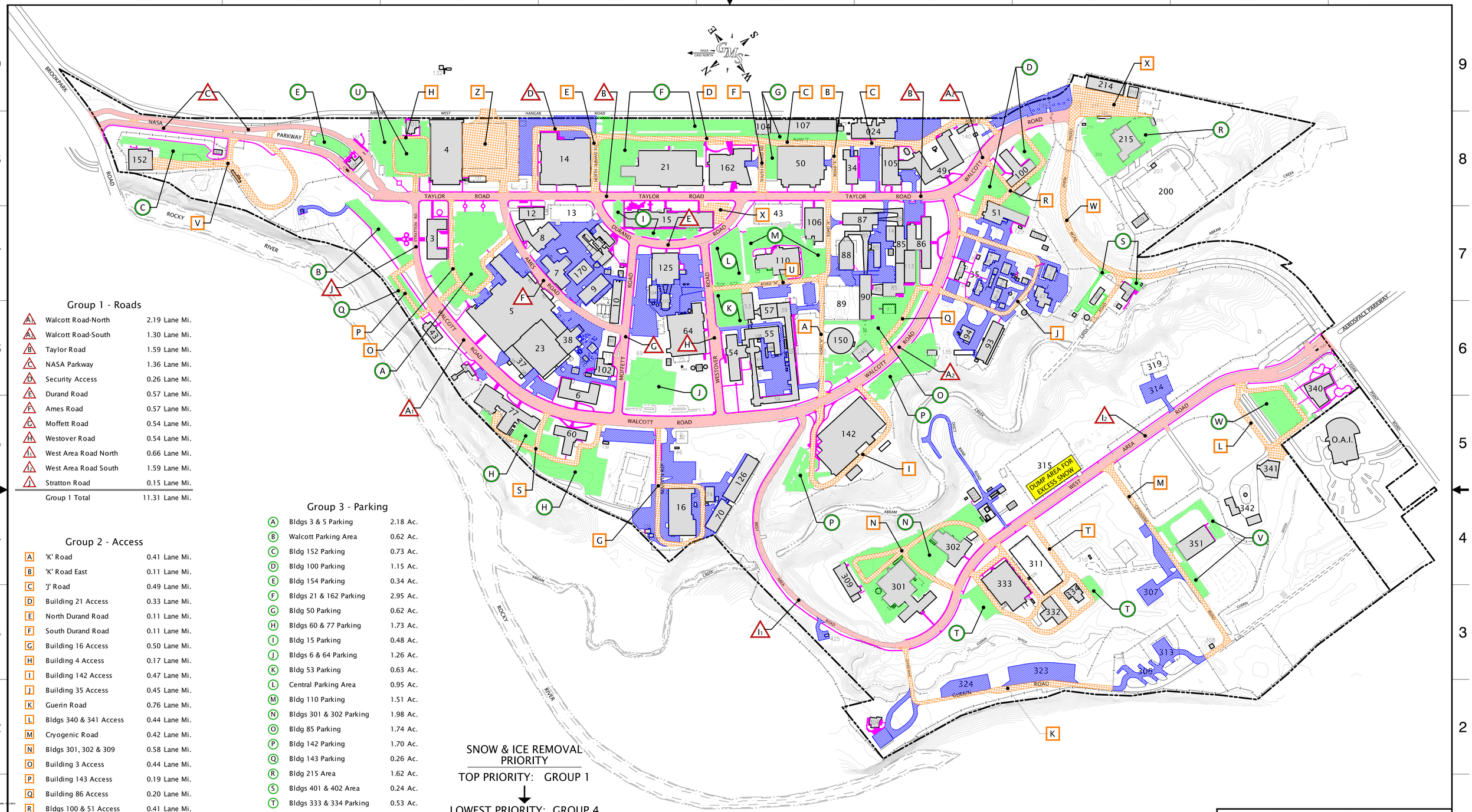

Group 1 - Roads

A1	Walcott Road-North	2.19 Lane Mi.
A2	Walcott Road-South	1.30 Lane Mi.
B	Taylor Road	1.59 Lane Mi.
C	NASA Parkway	1.36 Lane Mi.
D	Security Access	0.26 Lane Mi.
E	Durand Road	0.57 Lane Mi.
F	Ames Road	0.57 Lane Mi.
G	Moffett Road	0.54 Lane Mi.
H	Westover Road	0.54 Lane Mi.
I1	West Area Road North	0.66 Lane Mi.
I2	West Area Road South	1.59 Lane Mi.
J	Stratton Road	0.15 Lane Mi.
	Group 1 Total	11.31 Lane Mi.

Group 2 - Access

A	'K' Road	0.41 Lane Mi.	
B	'K' Road East	0.11 Lane Mi.	
C	'J' Road	0.49 Lane Mi.	
D	Building 21 Access	0.33 Lane Mi.	
E	North Durand Road	0.11 Lane Mi.	
F	South Durand Road	0.11 Lane Mi.	
G	Building 16 Access	0.50 Lane Mi.	
H	Building 4 Access	0.17 Lane Mi.	
I	Building 142 Access	0.47 Lane Mi.	
J	Building 35 Access	0.45 Lane Mi.	
K	Guerin Road	0.76 Lane Mi.	
L	Bldgs 340 & 341 Access	0.44 Lane Mi.	
M	Cryogenic Road	0.42 Lane Mi.	
N	Bldgs 301, 302 & 309	0.58 Lane Mi.	
O	Building 3 Access	0.44 Lane Mi.	
P	Building 143 Access	0.19 Lane Mi.	
Q	Building 86 Access	0.20 Lane Mi.	
R	Bldgs 100 & 51 Access	0.41 Lane Mi.	
S	Bldgs 60 & 77 Access	0.41 Lane Mi.	
T	Bldgs 333 & 334 Access	0.95 Lane Mi.	
U	'M' Road	0.23 Lane Mi.	
V	Bldg 152 Loop & Dock	0.51 Lane Mi.	
W	Cedar Point Road	0.48 Lane Mi.	
X	Medical Services		0.23 Ac.
Y	Maintenance Access		0.93 Ac.
Z	Hangar Apron		2.22 Ac.
	Group 2 Totals	9.14 Lane Mi.	3.37 Ac.

Note: All Handicap Parking Stalls in Group 2 Areas Are Included

Group 3 - Parking

A	Bldgs 3 & 5 Parking	2.18 Ac.
B	Walcott Parking Area	0.62 Ac.
C	Bldg 152 Parking	0.73 Ac.
D	Bldg 100 Parking	1.15 Ac.
E	Bldg 154 Parking	0.34 Ac.
F	Bldgs 21 & 162 Parking	2.95 Ac.
G	Bldg 50 Parking	0.62 Ac.
H	Bldgs 60 & 77 Parking	1.73 Ac.
I	Bldg 15 Parking	0.48 Ac.
J	Bldgs 6 & 64 Parking	1.26 Ac.
K	Bldg 53 Parking	0.63 Ac.
L	Central Parking Area	0.95 Ac.
M	Bldg 110 Parking	1.51 Ac.
N	Bldgs 301 & 302 Parking	1.98 Ac.
O	Bldg 85 Parking	1.74 Ac.
P	Bldg 142 Parking	1.70 Ac.
Q	Bldg 143 Parking	0.26 Ac.
R	Bldg 215 Area	1.62 Ac.
S	Bldgs 401 & 402 Area	0.24 Ac.
T	Bldgs 333 & 334 Parking	0.53 Ac.
U	Bldg 4 Parking	1.58 Ac.
V	Bldg 351 Area	0.72 Ac.
W	Bldgs 340 & 341 Parking	0.90 Ac.
	Group 3 Total	26.41 Ac.

Group 4 - Other

All Remaining Walks, Parking Areas and Drives	
5' Wide Pedestrian Walks	41,025 Lin. Ft.
Remaining Parking Areas and Drives	20.54 Ac.

SNOW & ICE REMOVAL PRIORITY

TOP PRIORITY: GROUP 1

↓

LOWEST PRIORITY: GROUP 4

LEGEND

- GROUP 1 - ROADS
- GROUP 2 - ACCESS
- GROUP 3 - PARKING
- GROUP 4 - OTHER
- PEDESTRIAN WALK
- DUMP AREA FOR EXCESS SNOW

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Map of Lewis Feld
Paved Surface Maintenance and
Snow Plowing Requirements

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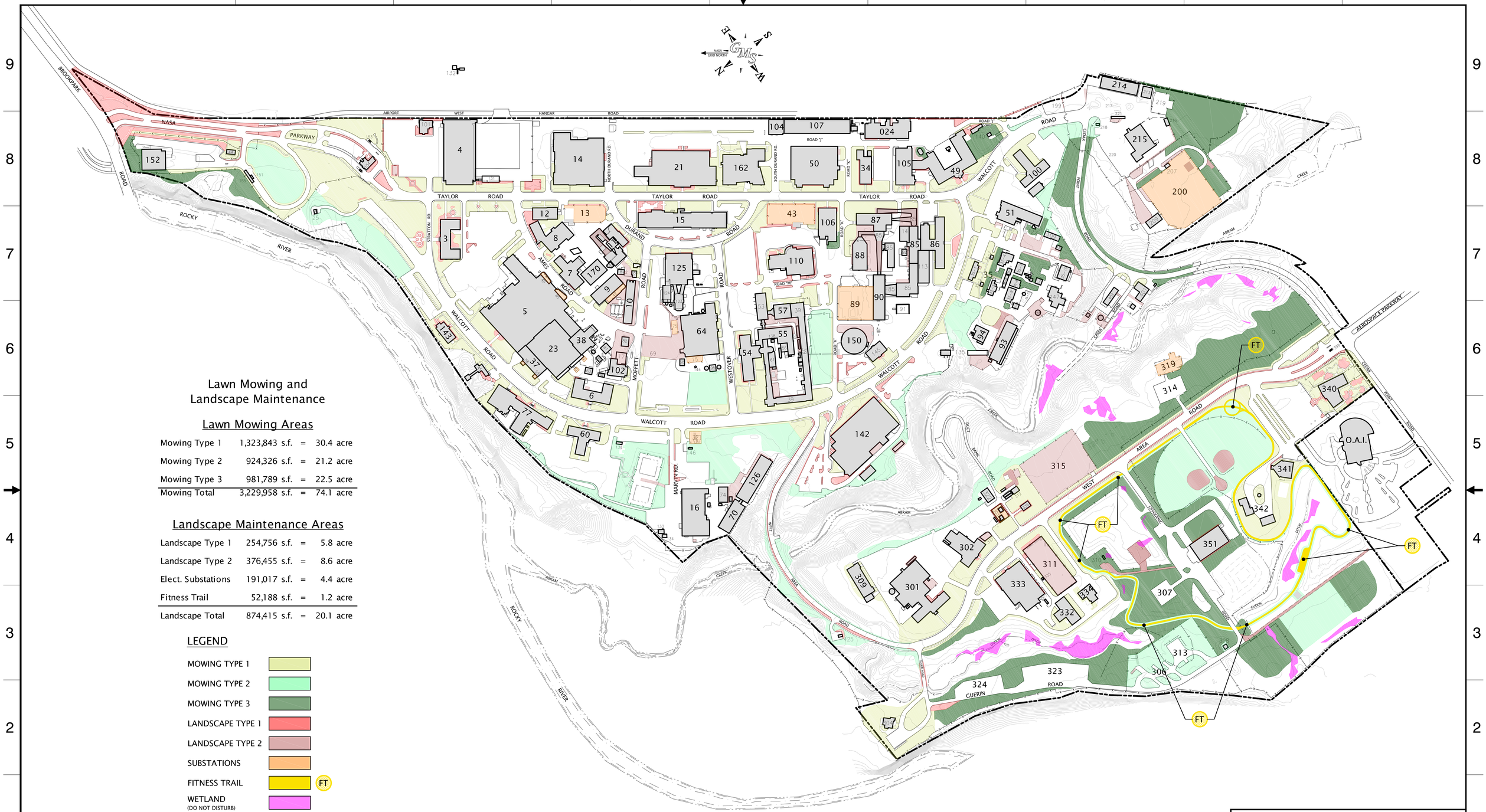

Lawn Mowing and Landscape Maintenance

Lawn Mowing Areas

Mowing Type 1	1,323,843 s.f.	=	30.4 acre
Mowing Type 2	924,326 s.f.	=	21.2 acre
Mowing Type 3	981,789 s.f.	=	22.5 acre
Mowing Total	3,229,958 s.f.	=	74.1 acre

Landscape Maintenance Areas

Landscape Type 1	254,756 s.f.	=	5.8 acre
Landscape Type 2	376,455 s.f.	=	8.6 acre
Elect. Substations	191,017 s.f.	=	4.4 acre
Fitness Trail	52,188 s.f.	=	1.2 acre
Landscape Total	874,415 s.f.	=	20.1 acre

LEGEND

- MOWING TYPE 1
- MOWING TYPE 2
- MOWING TYPE 3
- LANDSCAPE TYPE 1
- LANDSCAPE TYPE 2
- SUBSTATIONS
- FITNESS TRAIL (FT)
- WETLAND (DO NOT DISTURB)

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GRAPHIC SCALE (FEET)

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Map of Lewis Field
Grounds Maintenance Requirements
Lawn Mowing and Landscape Maintenance

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Tree Trimming and Treatment

Trim Trees

(Count Includes Trees to be Treated)

Trim Trees Type 1	196 ea.
Trim Trees Type 2	218 ea.
Trim Trees Type 3	147 ea.
Trim Trees Total	561 ea.

Treat Trees

Treat Oak Trees	22 ea.
Treat Crab Apple	114 ea.
Landscape Total	136 ea.

LEGEND

- AREA OF TYPE 1 TREES
- AREA OF TYPE 2 TREES
- AREA OF TYPE 3 TREES
- TREE - TRIM ONLY
- OAK TREE - TREAT & TRIM
- CRAB APPLE-TREAT & TRIM

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GRAPHIC SCALE (FEET)

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Map of Lewis Field
Grounds Maintenance Requirements
Tree Trimming and Treatment

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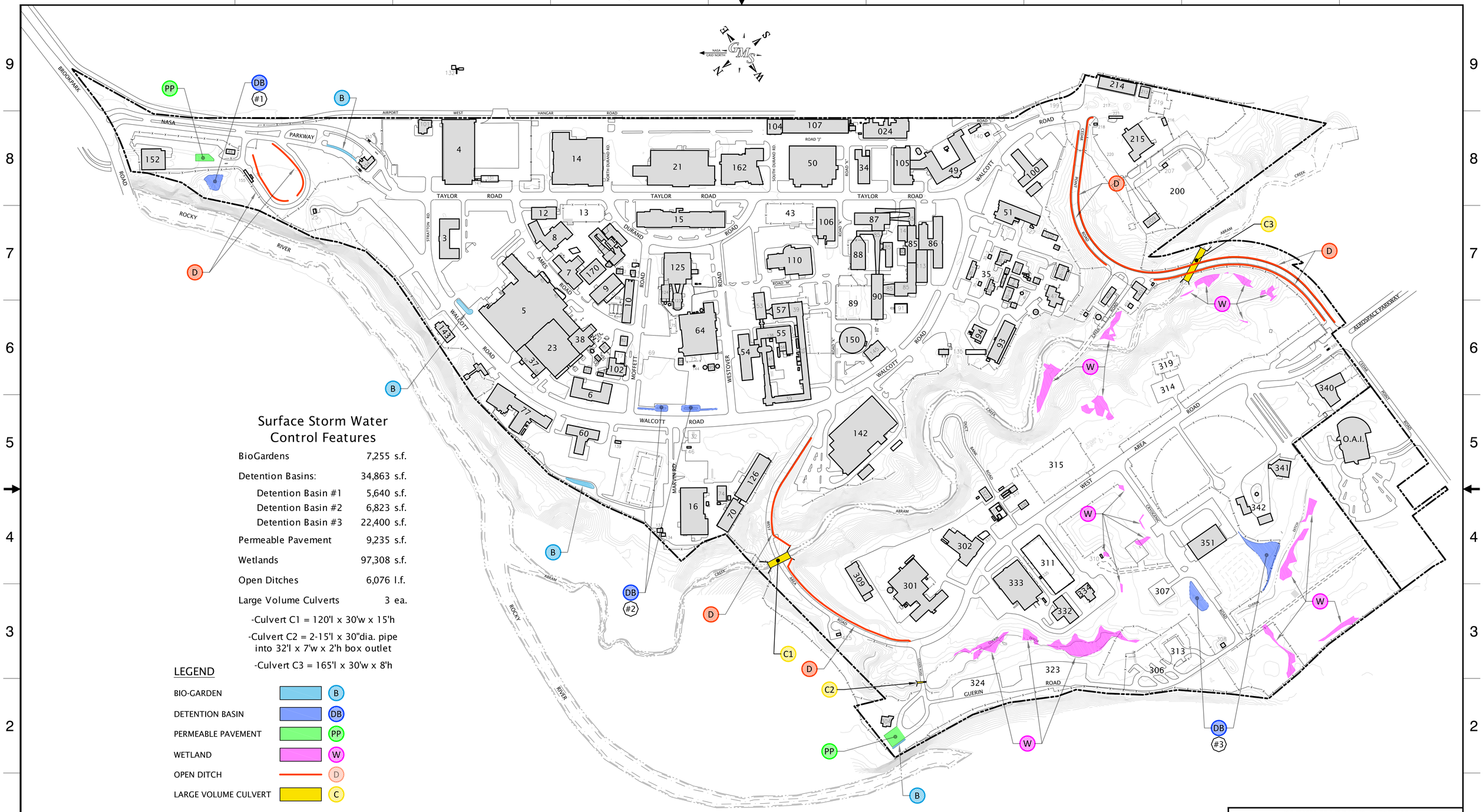

Surface Storm Water Control Features

BioGardens	7,255 s.f.
Detention Basins:	34,863 s.f.
Detention Basin #1	5,640 s.f.
Detention Basin #2	6,823 s.f.
Detention Basin #3	22,400 s.f.
Permeable Pavement	9,235 s.f.
Wetlands	97,308 s.f.
Open Ditches	6,076 l.f.
Large Volume Culverts	3 ea.

-Culvert C1 = 120'l x 30'w x 15'h

-Culvert C2 = 2-15'l x 30"dia. pipe into 32'l x 7'w x 2'h box outlet

-Culvert C3 = 165'l x 30'w x 8'h

LEGEND

BIO-GARDEN	B
DETENTION BASIN	DB
PERMEABLE PAVEMENT	PP
WETLAND	W
OPEN DITCH	D
LARGE VOLUME CULVERT	C

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Map of Lewis Field
Surface Storm Water
Control Features

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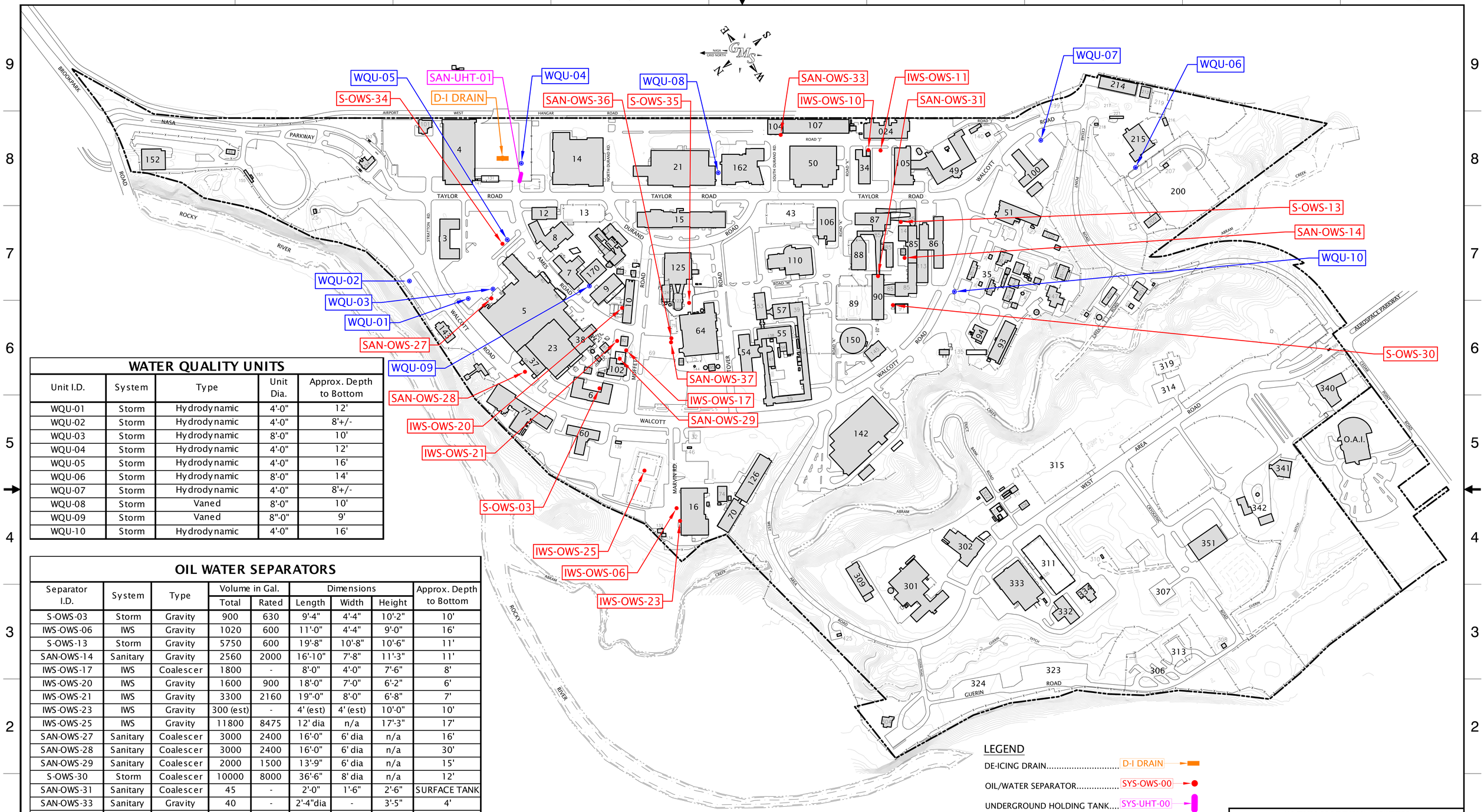

WATER QUALITY UNITS

Unit I.D.	System	Type	Unit Dia.	Approx. Depth to Bottom
WQU-01	Storm	Hydrodynamic	4'-0"	12'
WQU-02	Storm	Hydrodynamic	4'-0"	8'+/-
WQU-03	Storm	Hydrodynamic	8'-0"	10'
WQU-04	Storm	Hydrodynamic	4'-0"	12'
WQU-05	Storm	Hydrodynamic	4'-0"	16'
WQU-06	Storm	Hydrodynamic	8'-0"	14'
WQU-07	Storm	Hydrodynamic	4'-0"	8'+/-
WQU-08	Storm	Vaned	8'-0"	10'
WQU-09	Storm	Vaned	8"-0"	9'
WQU-10	Storm	Hydrodynamic	4'-0"	16'

OIL WATER SEPARATORS

Separator I.D.	System	Type	Volume in Gal.		Dimensions			Approx. Depth to Bottom
			Total	Rated	Length	Width	Height	
S-OWS-03	Storm	Gravity	900	630	9'-4"	4'-4"	10'-2"	10'
IWS-OWS-06	IWS	Gravity	1020	600	11'-0"	4'-4"	9'-0"	16'
S-OWS-13	Storm	Gravity	5750	600	19'-8"	10'-8"	10'-6"	11'
SAN-OWS-14	Sanitary	Gravity	2560	2000	16'-10"	7'-8"	11'-3"	11'
IWS-OWS-17	IWS	Coalescer	1800	-	8'-0"	4'-0"	7'-6"	8'
IWS-OWS-20	IWS	Gravity	1600	900	18'-0"	7'-0"	6'-2"	6'
IWS-OWS-21	IWS	Gravity	3300	2160	19"-0"	8'-0"	6'-8"	7'
IWS-OWS-23	IWS	Gravity	300 (est)	-	4' (est)	4' (est)	10'-0"	10'
IWS-OWS-25	IWS	Gravity	11800	8475	12' dia	n/a	17'-3"	17'
SAN-OWS-27	Sanitary	Coalescer	3000	2400	16'-0"	6' dia	n/a	16'
SAN-OWS-28	Sanitary	Coalescer	3000	2400	16'-0"	6' dia	n/a	30'
SAN-OWS-29	Sanitary	Coalescer	2000	1500	13'-9"	6' dia	n/a	15'
S-OWS-30	Storm	Coalescer	10000	8000	36'-6"	8' dia	n/a	12'
SAN-OWS-31	Sanitary	Coalescer	45	-	2'-0"	1'-6"	2'-6"	SURFACE TANK
SAN-OWS-33	Sanitary	Gravity	40	-	2'-4"dia	-	3'-5"	4'
S-OWS-34	Storm	Coalescer	20000	12000	37'-9"	10' dia	n/a	26'
S-OWS-35	Storm	Gravity	2500	-	12'-0"	6'-0"	5'-11"	15'
SAN-OWS-36	Sanitary	Coalescer	5700	-	16'-0"	8'-4"	6'-0"	10'
SAN-OWS-37	Sanitary	Coalescer	5700	-	16'-0"	8'-4"	6'-0"	10'

UNDERGROUND HOLDING TANKS

Tank I.D.	System	Type	Volume in Gal.		Dimensions			Approx. Depth to Bottom
			Total	Rated	Length	Width	Height	
SAN-UHT-01	Sanitary	Storage Tank	12000	-	37'-0"	8' dia	n/a	12'

LEGEND

DE-ICING DRAIN..... D-I DRAIN

OIL/WATER SEPARATOR..... SYS-OWS-00

UNDERGROUND HOLDING TANK.... SYS-UHT-00

WATER QUALITY UNIT**..... WQU-00

FIXTURE SYSTEM ('SYS') PREFIX:
STORM SYSTEM.....S-
SANITARY SYSTEM .....SAN-
INDUSTRIAL WASTE SYSTEM.....IWS-
**ALL WATER QUALITY UNITS ('WQU') ARE ON THE STORM SYSTEM

0 200 400 600 800 1000
GRAPHIC SCALE (FEET)

GLENN MAPPING SYSTEM

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
JOHN H. GLENN RESEARCH CENTER
LEWIS FIELD & PLUM BROOK STATION, OHIO

FORM II CONTRACT MAP - RFP NNC13ZFD017J

Map of Lewis Feld
Oil/Water Separators, Underground Holding Tank and Water Quality Units

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THIS DRAWING IS FORMATTED TO BE PRINTED IN COLOR

FULL SIZE PRINT DIMENSIONS (INCHES): 72 x 48
UNITS: IMPERIAL | SOFTWARE: CIVIL3D 2012
SCALE: SEE GRAPHIC | PLOT DATE: 04/19/2013

MAP 7

TITLE BLOCK DATE: 10/1/2012