PURCHASING OFFICE
P.O. BOX 3371
PH: 813-247-8034
FAX: 813-247-8015

David Gee, Sheriff

HILLSBOROUGH COUNTY SHERIFF'S OFFICE
TAMPA, FLORIDA 33601

SUBJECT: RFP No. 7-09 HCSO Landing Pad Expansion, Vandenburg Airport
DATE: March 13, 2009

ADDENDUM NUMBER 1

MESSAGE: Please note and acknowledge the following additions to be included in the referenced section(s) for RFP No. 7-09

1. Reference Page 33, Part C Technical Specifications: Include six (6) pages of construction drawings and details prepared by Hamilton Engineering & Surveying for Ranon & Partners, Architects Inc. Drawings are posted separately in pdf format sized to print on a 24" x 36" page.

Please note that this document hereby becomes a part of RFP No. 7-09 and without this complete document the Bid is considered incomplete.

Sincerely,

- SIGNATURE ON FILE -

Stephen G. Crane
Comptroller

ACKNOWLEDGEMENT OF ADDENDUM NO. 1
(Sign and include with Proposal Response)

We do hereby acknowledge the above information/changes/inclusions to RFP No. 7-09:

PLEASE PRINT - Company Name_____

By_____

Title_____

Date_____

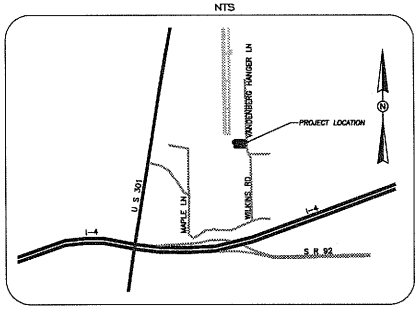
Phone_____

Signature_____

PRELIMINARY	X
RELEASED FOR CONSTRUCTION	

CONSTRUCTION PLANS
FOR:
HILLSBOROUGH COUNTY SHERIFFS OPERATION CENTER LANDING PAD EXPANSION VANDENBURG AIRPORT

VICINITY MAP
NTS

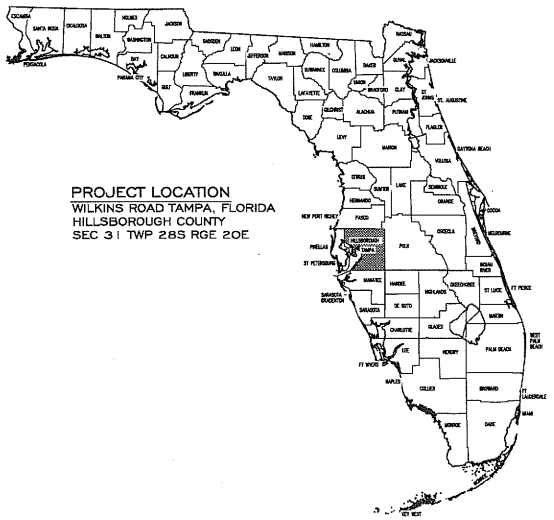


HAMILTON
ENGINEERING & SURVEYING, INC.

311 NORTH NEWPORT AVENUE, SUITE 100
TAMPA, FL 33606
LB #8474
TEL (813) 250-3535
FAX (813) 250-3636

DRAWING INDEX

1 OF 1 MAP OF BOUNDARY & TOPOGRAPHIC SURVEY
C1.0 NOTES & LEGEND
C2.0 DEMOLITION PLAN
C3.0 SITE PLAN
C4.0 GRADING & DRAINAGE PLAN
C5.0 DETAILS



PROJECT LOCATION
WILKINS ROAD TAMPA, FLORIDA
HILLSBOROUGH COUNTY
SEC 31 TWP 28S RGE 20E

ENGINEER/SURVEYOR

HAMILTON ENGINEERING & SURVEYING, INC.
311 N. NEWPORT AVENUE, SUITE 100
TAMPA, FLORIDA 33606
(813) 250-3535
(813) 250-3636 (FAX)

OWNER

HILLSBOROUGH COUNTY AVIATION AUTHORITY
P.O. BOX 22287
TAMPA, FLORIDA 33622
(813) 870-8709

ARCHITECT

RANON & PARTNERS, INC.
515 BAY STREET
TAMPA, FLORIDA 33606
(813) 253-3465

REQUIRED PERMITS	SUBMITTED	PERMIT GRANTED	PERMIT NUMBER	EXPIRATION
S.W.F.W.M.D ENVIRONMENTAL RESOURCE PERMIT	07/07/2008		49-001071.029	
HILLSBOROUGH COUNTY CONSTRUCTION PLAN APPROVAL	07/07/2008		62632.0000	

SHERIFF'S HANGAR
JOB # 20-080032

EROSION CONTROL NOTES

THE EROSION AND TURBIDITY CONTROL MEASURES SHOWN HEREON ARE THE MINIMUM REQUIRED FOR REGULATORY AGENCY PLANS APPROVAL. ADDITIONAL CONTROL AND MEASURES MAY BE REQUIRED DUE TO REGULATORY AGENCY RULES, CONSTRUCTION SEQUENCING AND/OR WEATHER CONDITIONS. ANY ADDITIONAL MEASURES DEEMED NECESSARY BY THE REGULATORY AGENCIES OR BY THE SITE CONTRACTOR BEFORE OR DURING CONSTRUCTION SHALL BE IMPLEMENTED AND MAINTAINED.

THE APPROPRIATE TURBIDITY AND EROSION CONTROL METHODOLOGIES SELECTED BY THE SITE CONTRACTOR FOR THIS PROJECT SHOULD BE MADE FOLLOWING REVIEW OF THE PLANS AND PROJECT SITE SPECIFIC FACTORS AND AFTER CONSULTATIONS AS NEEDED WITH THE PROJECT ENGINEER AND REGULATORY AGENCIES. SEVERAL FACTORS TO CONSIDER ARE DURATION OF CONSTRUCTION ACTIVITIES; DEPTH OF CUT AND SEPARATION DISTANCE FOR PONDS, TRENCHES, AND UTILITY LINES; CLAY CONTENT IN EXCAVATED MATERIALS; FILL HEIGHT RELATIVE TO NATURAL GRADE AND LENGTH AND STEEPNESS OF THE PROPOSED SLOPES; GROUND WATER LEVELS; TIME OF YEAR RELATIVE TO THE RAINY SEASON; PROXIMITY TO WETLANDS, WATER BODIES OR OFFSITE PROPERTIES; EXISTING TOPOGRAPHY AND DIRECTIONS OF SURFACE FLOW.

THE TYPE OF EROSION CONTROL BARRIERS USED SHALL BE GOVERNED BY THE NATURE OF THE CONSTRUCTION OPERATION AND SOIL TYPE THAT WILL BE EXPOSED. SILTY AND CLAYEY MATERIAL MAY REQUIRE SOLID SEDIMENT BARRIERS TO PREVENT TURBID WATER DISCHARGE, WHILE SANDY MATERIAL MAY NEED ONLY SILT SCREENS OR HAY BALES TO PREVENT EROSION. FLOATING TURBIDITY CURTAINS SHOULD GENERALLY BE USED IN OPEN WATER SITUATIONS. DIVERSION DITCHES OR SWALES MAY BE REQUIRED TO PREVENT TURBID STORMWATER RUNOFF FROM BEING DISCHARGED TO WETLANDS OR OTHER WATER BODIES. IT MAY BE NECESSARY TO EMPLOY A COMBINATION OF BARRIERS, DITCHES, AND OTHER EROSION/TURBIDITY CONTROL MEASURES IF CONDITIONS WARRANT.

THE SITE CONTRACTOR IS RESPONSIBLE FOR HAVING THEIR DEWATERING PLAN AND TURBIDITY CONTROL PLAN APPROVED BY THE APPLICABLE REGULATORY AGENCIES, PRIOR TO CONSTRUCTION, AS NECESSARY. REFER TO THE SITE PERMIT CONDITIONS FOR AGENCIES REQUIRING SUCH REVIEW, APPROVAL AND/OR SEPARATE PERMITS. WHERE PUMPS ARE TO BE USED TO REMOVE WATER FROM CONSTRUCTION AREAS, THE WATER SHALL BE TREATED PRIOR TO DISCHARGE TO WETLANDS. TREATMENT METHODS INCLUDE, FOR EXAMPLE, TURBID WATER BEING PUMPED INTO GRASSED SWALES OR APPROPRIATE UPLAND VEGETATED AREAS (OTHER THAN UPLAND PRESERVATION AREAS AND WETLAND BUFFERS), SEDIMENT BASINS, OR CONFINED BY AN APPROPRIATE ENCLOSURE SUCH AS TURBIDITY BARRIERS OR LOW BERMS, AND KEPT CONFINED UNTIL TURBIDITY LEVELS MEET STATE WATER QUALITY STANDARDS.

HAY BALES OR SILT SCREENS SHALL BE INSTALLED PRIOR TO LAND CLEARING TO PROTECT WATER QUALITY AND TO IDENTIFY AREAS TO BE PROTECTED FROM CLEARING ACTIVITIES AND MAINTAINED FOR THE DURATION OF THE PROJECT UNTIL ALL SOIL IS STABILIZED. FLOATING TURBIDITY BARRIERS SHALL BE IN PLACE IN OPEN WATER SYSTEMS PRIOR TO INITIATION OF EARTHWORK AND MAINTAINED FOR THE DURATION OF THE PROJECT UNTIL ALL SOIL IS STABILIZED. THE INSTALLATION OF TEMPORARY EROSION CONTROL BARRIERS SHALL BE COORDINATED WITH THE CONSTRUCTION OF THE PERMANENT EROSION CONTROL FEATURES TO THE EXTENT NECESSARY TO ASSURE EFFECTIVE AND CONTINUOUS CONTROL OF EROSION AND WATER QUALITY THROUGHOUT THE DURATION OF THE PROJECT.

THE SITE CONTRACTOR SHALL SCHEDULE THEIR OPERATIONS SUCH THAT THE AREA OF UNPROTECTED ERODIBLE EARTH EXPOSED AT ANY ONE TIME IS NOT LARGER THAN THE MINIMUM AREA NECESSARY FOR EFFICIENT CONSTRUCTION OPERATION, AND THE DURATION OF EXPOSED, UNCOMPLETED CONSTRUCTION TO THE ELEMENTS SHALL BE AS SHORT AS PRACTICABLE. CLEARING AND GRUBBING SHALL BE SO SCHEDULED AND PERFORMED SUCH THAT GRADING OPERATIONS CAN FOLLOW IMMEDIATELY THEREAFTER. GRADING OPERATIONS SHALL BE SO SCHEDULED AND PERFORMED THAT PERMANENT EROSION CONTROL FEATURES CAN FOLLOW IMMEDIATELY THEREAFTER IF CONDITIONS ON THE PROJECT PERMIT. EXPOSED SOILS SHOULD BE STABILIZED AS SOON AS POSSIBLE, ESPECIALLY SLOPES LEADING TO WETLANDS. STABILIZATION METHODS INCLUDE SOLID SOD, SEEDING AND MULCHING OR HYDROMULCHING TO PROVIDE A TEMPORARY OR PERMANENT GRASS COVER MULCH BLANKETS, FILTER FABRICS, ETC., CAN BE EMPLOYED TO PROVIDE VEGETATIVE COVER. SHEET FLOW OF NEWLY FILLED OR SCRAPED AREAS MAY BE CONTROLLED OR CONTAINED BY THE USE OF BRUSH BARRIERS, DIVERSION SWALES, INTERCEPTOR DITCHES OR LOW BERMS. FLOW SHOULD BE DIRECTED TOWARD AREAS WHERE SEDIMENTS CAN SUFFICIENTLY SETTLE OUT. SPREADER SWALES MAY HELP DISSIPATE CLOUDY WATER PRIOR TO CONTACT WITH WETLANDS.

WATER DERIVED FROM VARIOUS DEWATERING METHODS SHOULD BE PASSED THROUGH SUFFICIENTLY WIDE AREAS OF EXISTING UPLAND VEGETATION TO FILTER OUT EXCESS TURBIDITY. IF THIS IS NOT SUFFICIENT, THE WATER SHALL BE RETAINED IN PREVIOUSLY CONSTRUCTED PERMANENT STORMWATER PONDS OR ELSE RETAINED IN TEMPORARY SEDIMENTATION BASINS UNTIL THE CLARITY IS SUITABLE TO ALLOW FOR ITS DISCHARGE. PLUGGING THE OUTFALLS FROM COMPLETED STORMWATER PONDS MAY BE NEEDED TO AVOID DISCHARGE. HOWEVER, SUCH SITUATIONS SHOULD BE MONITORED CLOSELY TO PRECLUDE BERM FAILURE IF WATER LEVELS RISE TOO HIGH.

IF THE ABOVE CONTROLS REMAIN INEFFECTIVE IN PRECLUDING RELEASE OF TURBID WATER, ESPECIALLY DURING POND OR UTILITY LINE DEWATERING, THEN THE CONTRACTOR MAY BE COMPELLED TO USE A VERTICAL DEWATERING SYSTEM SUCH AS WELL POINTS OR SOCK DRAINS TO WITHDRAW GROUNDWATER WHICH MAY ALREADY BE CLEAR ENOUGH TO ALLOW FOR DIRECT DISCHARGE TO WETLANDS.

ENERGY DISSIPATERS (SUCH AS RIP RAP, A GRAVEL BED, HAY BALES, ETC.) SHALL BE INSTALLED AT THE DISCHARGE POINT OF PIPES OR SWALES IF SCOURING IS OBSERVED. ATTEMPT TO INSTALL ROADWAY CURB AND GUTTERS AS SOON AS POSSIBLE TO REDUCE THE SURFACE AREA FOR EROSION TO OCCUR. IMPLEMENT STORM DRAIN INLET PROTECTION (HAY BALES OR GRAVEL) TO LIMIT SEDIMENTATION WITHIN THE STORMWATER SYSTEM. PERFORM INSPECTIONS AND PERIODIC CLEANING OF SEDIMENTS WHICH WASH OUT INTO THE STREETS UNTIL ALL SOIL IS STABILIZED. VEHICLE OR EQUIPMENT WASHDOWN AREAS WILL BE SUFFICIENTLY REMOVED FROM WETLANDS OR OFFSITE AREAS. FUGITIVE DUST CONTROLS (PRIMARILY BY USING WATER SPRAY TRUCKS) SHALL BE EMPLOYED AS NEEDED TO CONTROL WINDBORN EMISSIONS.

NO CLAY MATERIAL SHALL BE LEFT EXPOSED IN ANY STORMWATER STORAGE FACILITY. IF CLAY OR SANDY-CLAYS ARE ENCOUNTERED DURING STORMWATER STORAGE EXCAVATION, THE SITE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY BEFORE PROCEEDING WITH FURTHER EXCAVATION. IF THE ENGINEER HAS DETERMINED THAT SUCH SOILS ARE NON-CONFORMING AND MUST BE EXCAVATED TO MEET PERMIT AND DESIGN CONDITIONS, EXCAVATION MAY PROCEED AFTER OBTAINING WRITTEN AUTHORIZATION FROM THE APPROPRIATE LOCAL REGULATORY AGENCY. IF SAID SOILS ARE LEFT EXPOSED AT THE PERMITTED AND DESIGNED DEPTH, THE SITE CONTRACTOR SHALL OVER-EXCAVATE THE POND'S BOTTOM AND SIDE SLOPES BY A MINIMUM OF TWELVE (12") INCHES AND BACKFILL WITH CLEAN SANDS TO HELP PREVENT SUSPENSION OF FINE PARTICLES IN THE WATER COLUMN.

DISCHARGES WHICH EXCEED 29 N.T.U.'S OVER THE BACKGROUND LEVELS ARE IN VIOLATION OF STATE WATER QUALITY STANDARDS. DISCHARGES OF WATER QUANTITIES WHICH AFFECT OFFSITE PROPERTIES OR MAY DAMAGE WETLANDS ARE ALSO PROHIBITED BY REGULATING AGENCIES. WATER DISCHARGE VELOCITIES FROM IMPOUNDED AREAS AND TEMPORARY SEDIMENTATION BASINS SHALL BE RESTRICTED TO AVOID SCOURING IN RECEIVING AREAS. IF WATER CLARITY DOES NOT REDUCE TO STATE STANDARDS RAPIDLY ENOUGH IN HOLDING PONDS, IT MAY BE POSSIBLE TO USE CHEMICAL AGENTS SUCH AS ALUM TO FLOCCULATE OR COAGULATE THE SEDIMENT PARTICLES.

ONGOING INSPECTIONS AND PERIODIC MAINTENANCE BY THE SITE CONTRACTOR SHALL OCCUR THROUGHOUT CONSTRUCTION AS NECESSARY TO INSURE THE ABOVE METHODS ARE WORKING SUITABLY. THIS MAY BE NEEDED DAILY, IF CONDITIONS SO WARRANT. SITE CONTRACTORS ARE ENCOURAGED TO OBTAIN AND THOROUGHLY REVIEW THE FLORIDA DEVELOPMENT MANUAL. A GUIDE TO SOUND LAND AND WATER MANAGEMENT, WHICH WAS DEVELOPED BY THE STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION IN 1988. THIS PROVIDES FAIRLY IN DEPTH DISCUSSIONS OF RECOMMENDED TECHNIQUES AND ALSO PROVIDES SPECIFIC DESIGN AND TECHNICAL STANDARDS.

LEGEND OF SYMBOLS

DESCRIPTION	EXISTING	NEW
PROPERTY LINE	— — —	
TEMPORARY EROSION CONTROL		—o—o—o—
FENCE	—x—x—	
SPOT ELEVATION	x 00.0	XX.XX x XX.XX
GRADE CONTOUR		——00.0——
CONCRETE		

DEMOLITION NOTES

DEMOLITION WORK SHALL NOT BE LIMITED TO THESE DOCUMENTS. CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS AND EXTENT OF REMOVAL OF ITEMS SHOWN PRIOR TO USING THIS INFORMATION FOR BID PURPOSES.

ANY STRUCTURE NOT SHOWN TO BE REMOVED IS TO REMAIN UNLESS OTHERWISE INSTRUCTED BY THE OWNER OR ARCHITECT, OR REQUIRED BY FIELD CONDITIONS.

CONTRACTOR TO COMPLETELY REMOVE EXISTING ITEMS ON SITE INCLUDING BUILDINGS, CURBS, ASPHALT, BASE COURSE, CONCRETE AND EXISTING UTILITIES AS SHOWN AND NECESSARY TO ALLOW FOR NEW CONSTRUCTION.

LOCAL CODES APPLY FOR ANY DEMOLITION SHOWN HEREON.

A SEPARATE PERMIT FOR THE DEMOLITION OF THE EXISTING BUILDINGS SHALL BE OBTAINED BY THE CONTRACTOR PRIOR TO STARTING WORK.

CONTRACTOR TO COORDINATE WITH LOCAL UTILITY COMPANIES, FOR ANY UTILITIES SHOWN TO BE REMOVED OR RELOCATED HEREON, EARLY IN CONSTRUCTION PROCESS, AS TO AVOID ANY DELAYS.

CONTRACTOR TO FIELD COORDINATE PHASING OF ALL DEMOLITION AND CONSTRUCTION TO LIMIT INTERRUPTION OF TRAFFIC FLOW AND DAILY OPERATIONS.

CONTACT ENGINEER IMMEDIATELY IF ANY UNDERGROUND STRUCTURES, FOUND DURING EXCAVATION, IMPEDE THE COMPLETION OF CONSTRUCTION AS SHOWN.

CONTRACTOR SHALL ASSUME UTILIZATION OF THE EXISTING BASE COURSE UNDER NEW ASPHALT WHERE GRADE ALLOWS FOR BID PURPOSES.

IN AREAS WHERE ASPHALT IS SHOWN TO BE REMOVED, BASE MAY REMAIN IF AREA IS PROPOSED TO BE COVERED WITH CONCRETE (WALKS, PAVEMENT, ETC.)

ADDITIONAL ASPHALT AREAS, NOT SHOWN HEREON, MAY REQUIRE REMOVAL IF REGRADING NEEDS TO OCCUR FOR PROPER DRAINAGE. SEE PROPOSED GRADING PLAN FOR DETAILS.

SOME ITEMS SHOWN TO BE REMOVED MAY NEED TO BE RELOCATED TO OTHER AREAS ON SITE AT THE REQUEST OF THE OWNER. CONTRACTOR TO FIELD COORDINATE.

THERE MAY BE EXISTING IRRIGATION LINES IN THE AREA OF WORK THAT NEED TO BE REMOVED AND/OR RELOCATED, THAT ARE NOT SHOWN HEREON. CONTRACTOR TO FIELD VERIFY THE EXTENT OF IRRIGATION WORK TO BE PERFORMED PRIOR TO BID OR PROVIDE A REASONABLE ALLOWANCE AS NECESSARY. CONTRACTOR TO COORDINATE RELOCATION WITH OWNER OR LANDSCAPE ARCHITECT PRIOR TO CONSTRUCTION.

SITE DATA

TOTAL SITE AREA	108381	SF/	2.49	ACRES
PROJECT SITE AREA	27958	SF/	0.64	ACRES
EXISTING IMPERVIOUS AREA	1047	SF/	0.02	ACRES
PROPOSED IMPERVIOUS AREA	5975	SF/	0.14	ACRES
EXISTING "GREEN" AREA	11327	SF/	0.26	ACRES
PROPOSED "GREEN" AREA	5430	SF/	0.12	ACRES
POND AREA	16553	SF/	0.38	ACRES
CURRENT ZONING	AC			
LAND USE	CMU-12			
FOLIO NUMBER	052632.0000			

BENCHMARK — DATUM

BENCHMARK	DATUM
VB-590B EL.=27.71	NGVD29
VB-590A EL.=28.84	NGVD29

CONVERSION: NAVD 1988 = NGVD 1929 -0.85'

FLOOD ZONE X

PANEL # 120112 0238 H DATED AUG 28, 2008

GENERAL NOTES

THESE DRAWINGS ARE NOT FOR CONSTRUCTION UNTIL ALL PERMIT APPROVALS ARE CONFIRMED RECEIVED BY THE ENGINEER OF RECORD (EOR).

WHENEVER A CONFLICT OCCURS BETWEEN ANY SPECIFICATION AND/OR REGULATORY REQUIREMENT, THE MORE STRINGENT REQUIREMENT SHALL APPLY.

THESE DRAWINGS ARE CURRENTLY UNDER REVIEW BY THE SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT AND OTHER REGULATORY AGENCIES. THE FINAL APPROVED PLANS MAY DEVIATE CONSIDERABLY FROM THESE DRAWINGS. THE CONTRACTOR MUST ASSURE CONSTRUCTION IS IN ACCORDANCE WITH THE APPROVED DRAWINGS. PRIOR TO CONSTRUCTION, CONTRACTOR SHALL CONTACT HAMILTON ENGINEERING & SURVEYING TO VERIFY APPROPRIATE PLANS ARE BEING UTILIZED.

IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ASSURE THE STAKEOUT SURVEYOR HAS THE MOST CURRENT SET OF PLANS, INCLUDING ALL RECENT REVISIONS MADE BY ADDENDUM OR REQUEST FOR INFORMATION (RFI), AND REGARDLESS IF STAKEOUT IS CONTRACTED THROUGH HAMILTON ENGINEERING & SURVEYING'S SURVEY DEPARTMENT.

THESE DRAWINGS SHALL NOT BE UTILIZED FOR CONSTRUCTION PRIOR TO OBTAINING REQUIRED PERMITS FROM ALL GOVERNMENTAL AGENCIES HAVING JURISDICTION OVER THE WORK. THE CONTRACTOR SHALL OBTAIN ALL PERMITS FROM WORK WITHIN PUBLIC EASEMENTS AND RIGHTS-OF-WAY AND INSURE THAT ALL OTHER REQUIRED PERMITS ARE APPROVED PRIOR TO COMMENCING THE WORK.

SOME OF THE DETAILS SHOWN INCLUDED IN THIS DRAWING SET ARE PROVIDED BY THE REVIEWING REGULATORY AGENCIES AND ARE REQUIRED BY THOSE AGENCIES TO BE SHOWN ON THE DRAWINGS FOR PERMIT APPROVAL. BY SIGNING AND SEALING THESE DRAWINGS, THE EOR IS NOT ASSUMING RESPONSIBILITY FOR ANY ERRORS OR OMISSIONS ON THESE DETAILS. CONTRACTOR SHALL VERIFY THE DETAILS ARE THE LATEST ISSUED BY THE REGULATORY AGENCY, THE DETAILS COMPLY WITH THE LATEST TECHNICAL MANUAL SPECIFICATIONS, AND THE REGULATORY AGENCY INSPECTOR DOES NOT HAVE ANY ALTERNATE REQUIREMENTS NOT SHOWN ON THE DETAILS.

CONTRACTOR SHALL NOT COMMENCE CONSTRUCTION OF POTABLE WATER AND/OR SANITARY SEWER COLLECTION SYSTEMS PRIOR TO ASSURING THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP) PERMITS HAVE BEEN ACQUIRED. CONTRACTOR SHALL REVIEW SPECIFIC CONDITIONS DEPICTED ON FDEP PERMITS, WHICH MAY NOT BE SHOWN HEREON.

UNLESS OTHERWISE NOTED, ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO FLORIDA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", LATEST EDITION.

CONTRACTOR IS TO COORDINATE ALL WORK WITH UTILITY COMPANIES IN ORDER TO PREVENT DAMAGE TO UTILITY LINES AND THE MAKING OF ADJUSTMENTS TO SAME, IF REQUIRED. THE CONTRACTOR SHALL PROVIDE AT LEAST 48 HOURS NOTICE TO THE VARIOUS UTILITY OWNERS PRIOR TO CONSTRUCTION.

SURVEY INFORMATION AND LEGAL DESCRIPTIONS SHOWN HEREON WERE OBTAINED BY OTHERS. LOCATIONS, ELEVATIONS AND DIMENSIONS OF EXISTING UTILITIES, STRUCTURES, AND OTHER FEATURES ARE SHOWN ACCORDING TO INFORMATION AVAILABLE AT THE TIME OF THE PREPARATION OF THESE PLANS BUT DO NOT PURPORT TO BE ABSOLUTELY CORRECT. THE CONTRACTOR SHALL VERIFY THIS INFORMATION AND BE FAMILIAR WITH ALL SITE CONDITIONS (INCLUDING SUB-SURFACE CONDITIONS AND UTILITIES) PRIOR TO COMMENCING THE WORK. DAMAGES TO ANY EXISTING FACILITIES (ABOVE-GROUND AND UNDERGROUND) SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR, WHETHER OR NOT SHOWN HEREON. THE CONTRACTOR SHALL NOTIFY THE UNDERGROUND UTILITY NOTIFICATION CENTER (CALL SUNSHINE STATE ONE CALL AT 1-800-432-4770) 48 HOURS PRIOR TO COMMENCING THE WORK.

DEMOLITION WORK SHALL NOT BE LIMITED TO THESE DOCUMENTS TO COMPLETE PROJECT AS SHOWN. CONTRACTOR TO REMOVE ALL ITEMS NECESSARY TO ALLOW FOR NEW CONSTRUCTION.

PRIOR TO CONSTRUCTION, CONTRACTOR SHALL VERIFY THE FEASIBILITY OF CONSTRUCTING GRAVITY SEWER SYSTEMS (IE. VERIFY EXISTING INVERTS AT POINTS OF CONNECTION, EXIT INVERTS OF BUILDING PLUMBING, GREASE TRAP CONFIGURATION, MINIMUM SLOPES, ETC.).

REFERENCED INDEX NUMBERS REFER TO DETAILS DEPICTED IN THE F.D.O.T. ROADWAY AND TRAFFIC DESIGN STANDARDS.

CONSTRUCTION SHOWN ON THESE PLANS IS PERMITTED ONLY FOR THE WORK LOCATED WITHIN THE PRIVATE PROPERTY. ALL WORK WITHIN THE RIGHT-OF-WAY AND EASEMENTS WILL REQUIRE A SEPARATE PERMIT AND MAY REQUIRE AN ALTERATION TO THE CONSTRUCTION OR MATERIALS SHOWN ON THESE PLANS.

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE MAINTENANCE OF TRAFFIC AND PEDESTRIAN CONTROL PER APPROPRIATE FDOT SPECIFICATIONS. SEE FDOT INDEX 600 THROUGH 660.

ALL WORK WITHIN THE RIGHT-OF-WAY SHALL CONFORM TO ALL APPLICABLE PROVISIONS OF F.D.O.T. STANDARD SPECIFICATIONS, LATEST EDITION AS SUPPLEMENTED.

CONTRACTOR SHALL LOCATE PROPERTY LINES AS REQUIRED TO AVOID ENCROACHMENT ONTO ADJACENT PROPERTY. CONTRACTOR SHALL INVESTIGATE FOR EXISTING UTILITIES PRIOR TO CONSTRUCTION. NOTIFY A/E IN THE EVENT OF CONFLICT.

CONTRACTOR IS TO PROVIDE EROSION CONTROL/SEDIMENTATION BARRIER (HAY BALES OR SILTATION CURTAIN) TO PREVENT SILTATION OF ADJACENT PROPERTY STREETS, STORM SEWERS, AND WATERWAYS. BARRIERS ARE TO BE BUILT BEFORE LAND ALTERATION, MAINTAINED EFFECTIVELY DURING CONSTRUCTION, AND REMOVED AFTER FINAL SOIL STABILIZATION. IN ADDITION, CONTRACTOR SHALL PLACE STRAW, MULCH OR OTHER SUITABLE MATERIAL ON GROUND IN AREAS WHERE CONSTRUCTION RELATED TRAFFIC IS TO ENTER AND EXIT SITE. IF, IN THE OPINION OF THE ENGINEER AND/OR LOCAL AUTHORITIES, EXCESSIVE QUANTITIES OF EARTH ARE TRANSPORTED OFF-SITE EITHER BY NATURAL DRAINAGE OR VEHICULAR TRAFFIC, THE CONTRACTOR IS TO REMOVE AND CLEAN SAID EARTH TO THE SATISFACTION OF THE ENGINEER AND/OR AUTHORITIES.

HILLSBOROUGH COUNTY: TO MINIMIZE SOIL EROSION, PROPOSED LAND ALTERATION ACTIVITIES SHALL NOT UNNECESSARILY REMOVE EXISTING VEGETATION AND ALTER EXISTING TOPOGRAPHY. ADEQUATE PROTECTION MEASURES (IE HAY BALES, BAFFLES, SODDING AND SANDBAGGING) SHALL BE PROVIDED, AS NECESSARY TO MINIMIZE EROSION AND DOWNSTREAM SEDIMENTATION CAUSED BY SURFACE WATER RUN-OFF ON EXPOSED LAND SURFACES.

HILLSBOROUGH COUNTY: ANY AREAS SUBJECT TO EROSION MUST BE ADEQUATELY STABILIZED WITH VEGETATIVE MATERIAL THAT WILL, IN A REASONABLE TIME FRAME, DETER SOIL DISTURBANCE. SODDING, PLUGGING, SPRIGGING OR SEEDING IS ACCEPTABLE FOR STABILIZATION, HOWEVER, SODDING MAY BE REQUIRED IN AREAS OF EROSION-PRONE SOILS OR WHERE SLOPES ARE GREATER THAN 5:1. VEGETATION OTHER THAN GRASS IS ACCEPTABLE UNLESS OTHERWISE SPECIFIED.

UPON REQUEST, ELECTRONIC DATA (IN AUTOCAD FORMAT) ASSOCIATED WITH THESE SITE PLANS WILL BE PROVIDED FOR CONSTRUCTION LAYOUT PURPOSES. HOWEVER, HAMILTON ENGINEERING & SURVEYING, INC. WILL IN NO WAY BE RESPONSIBLE FOR ANY ADVERSE RESULTS IF THE ELECTRONIC DATA IS USED BY OTHERS FOR CONSTRUCTION PURPOSES (REGARDLESS OF WHETHER OR NOT THE ELECTRONIC DATA CONTAINS ERRORS). AS AN OPTION, COORDINATE GEOMETRY INFORMATION ASSOCIATED WITH THESE SITE PLANS WILL BE PROVIDED BY HAMILTON ENGINEERING & SURVEYING, INC.

CONTRACTOR SHALL PROVIDE AND MAINTAIN ALL TEMPORARY CONSTRUCTION TRAFFIC RELATED ACCESS POINTS TO THE PROJECT SITE AND/OR SPECIFIC AREAS OF WORK ON THE PROJECT SITE AS NECESSARY.

ALL TREES TO REMAIN MUST BE PROTECTED BY TREE PROTECTION BARRICADES MEETING THE MINIMUM STANDARDS SHOWN. PROTECTIVE BARRICADES SHALL REMAIN IN PLACE UNTIL LAND ALTERATION AND CONSTRUCTION ACTIVITIES ARE COMPLETED.

ALL FILL SHALL CONSIST OF SATISFACTORY SOIL MATERIALS, DEFINED AS THOSE COMPLYING WITH ASTM D2487 SOIL CLASSIFICATION GROUPS GW, GP, GM, SW, AND SP FREE OF RUBBLE, ORGANICS, CLAY, DEBRIS AND OTHER SIMILAR UNSUITABLE MATERIALS. UNSATISFACTORY SOIL MATERIALS ARE DEFINED AS THOSE COMPLYING WITH ASTM D2487 SOIL CLASSIFICATION GROUPS GC, SM, SC, ML, MH, CL, CH, OL, OH, AND PT. UNLESS OTHERWISE NOTED, ALL FILL SHALL BE COMPACTED TO A MINIMUM OF 95% AASHTO T-180, METHOD D.

HILLSBOROUGH COUNTY: DURING LAND ALTERATION AND CONSTRUCTION ACTIVITIES, IT SHALL BE UNLAWFUL TO REMOVE VEGETATION (EXCEPT BY HAND) BY GRUBBING OR TO PLACE SOIL DEPOSITS, DEBRIS, SOLVENTS, CONSTRUCTION MATERIAL, MACHINERY OR OTHER EQUIPMENT OF ANY KIND WITHIN THE DRIPLINE OF A TREE TO REMAIN ON THE SITE UNLESS OTHERWISE APPROVED BY THE COUNTY.

TREE LIMBS SHALL BE PRUNED AS REQUIRED FOR NEW CONSTRUCTION. WHEN TREE LIMBS OVERHANG EXISTING OR NEW VEHICULAR USE AREAS, THE CONTRACTOR SHALL PRUNE SUCH TREES TO PROVIDE CLEARANCE MEETING THE STANDARDS SET FORTH BY THE FLORIDA DEPARTMENT OF TRANSPORTATION. PRUNING SHALL BE IN ACCORDANCE WITH THE AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI) A-300 PRUNING STANDARDS.

HILLSBOROUGH COUNTY: ALL TRIMMING UNDERTAKEN ON A TREE PROTECTED BY THE PROVISIONS OF THE LDC SHALL BE PRUNED IN ACCORDANCE WITH THE AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI) A-300 PRUNING STANDARDS.

ANY SIDEWALK WHICH BECOMES UNDERMINED OR DAMAGED DURING CONSTRUCTION MUST BE REMOVED AND REPLACED. PERMITS WILL BE OBTAINED BY THE CONTRACTOR FOR THE CLOSING OF SIDEWALKS IN THE RIGHT-OF-WAY. SIDEWALKS ARE TO BE RECONSTRUCTED WITHIN THREE (3) DAYS AFTER REMOVAL. WHEN EXISTING SIDEWALK IS REMOVED, IT IS TO BE REMOVED TO THE NEAREST JOINT.

WHERE ANY VEHICLE, EQUIPMENT, WORKERS OR THEIR ACTIVITIES ENCROACH ON THE SIDEWALK FOR A PERIOD OF MORE THAN ONE HOUR, CONTRACTOR SHALL PROVIDE PEDESTRIAN CONTROL FOR CLOSURE OF SIDEWALKS PER FDOT INDEX 660, UNLESS OTHERWISE NOTED.

ALL PEDESTRIAN ROUTES, SIDEWALKS AND RAMPS, AS WELL AS ALL HANDICAPPED SIGNS, SYMBOLS, PARKING SPACES, ETC. SHALL BE CONSTRUCTED IN STRICT ACCORDANCE WITH LOCAL, STATE AND FEDERAL ADA REQUIREMENTS WHETHER OR NOT SHOWN HEREON. CONTRACTOR SHALL VERIFY REQUIREMENTS WITH LOCAL INSPECTORS PRIOR TO POURING SIDEWALKS AND RAMPS.

ALL CONSTRUCTION TO BE IN ACCORDANCE WITH STATE AND LOCAL ORDINANCES AND BUILDING REGULATIONS. ALL PLUMBING SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITIONS OF THE NFPA, THE FLORIDA BUILDING CODE - PLUMBING AND LOCAL REGULATORY REQUIREMENTS.

ALL APPLICABLE ITEMS SHALL BE PROVIDED TO HAMILTON ENGINEERING & SURVEYING A MINIMUM OF 60 DAYS PRIOR TO FINAL ACCEPTANCE AND PLACEMENT INTO OPERATION.

ALL RIGHT-OF-WAY INSTALLATIONS WILL BE IN ACCORDANCE WITH PRACTICES REFERENCED IN THE STATE OF FLORIDA UTILITIES ACCOMMODATIONS MANUAL.

HILLSBOROUGH COUNTY: ALL MECHANICAL EQUIPMENT MUST BE SCREENED.

COMPACTION FOR PIPE BACKFILL SHALL COMPLY WITH AASHTO T-99 (100%).

PROVIDE PAVEMENT MARKINGS AS SHOWN PER FDOT INDEX No. 17346.

SIGNS AND BARRICADES TO BE ACCORDING TO FDOT MANUAL OF SAFE PRACTICES; REFERENCE FDOT INDEXES 600 THRU 650.

THE CONTRACTOR SHALL REPLACE ALL PAVING, STABILIZED EARTH, CURBS, DRIVEWAYS, SIDEWALKS, ETC. WITH MATERIALS OF THE SAME TYPE OR BETTER THAN THAT REMOVED DURING CONSTRUCTION.

CONTRACTOR SHALL SECURE ALL OPENINGS UNDER CONSTRUCTION AT THE END OF EACH WORKING DAY.

GRASS SOD AND SEED SHALL BE BAHIA, UNLESS OTHERWISE SHOWN ON THE LANDSCAPE PLANS. SEED AND MULCH ALL AREAS LEFT BARREN FROM CONSTRUCTION. SOD ALL SLOPES GREATER THAN 5:1, WHETHER OR NOT SHOWN HEREON. ALL RETENTION POND BANKS SHALL BE SODDED, REGARDLESS OF SLOPE, TO THE POND BOTTOM FOR DESIGNED DRY PONDS OR THE WATER LINE AT THE TIME OF INSTALLATION FOR DESIGNED WET PONDS. STEEP SLOPES TO BE SODDED AS SOON AS POSSIBLE AFTER FINE GRADING TO PREVENT EROSION.

THE CONTRACTOR SHALL PROVIDE HAMILTON ENGINEERING & SURVEYING WITH AS-BUILT SURVEYS PREPARED BY A LICENSED PROFESSIONAL LAND SURVEYOR OF ALL WATER, SANITARY SEWER AND STORMWATER MANAGEMENT SYSTEMS AS REQUIRED BY THE FDEP AND THE SWFWMD. SANITARY SEWER AS-BUILTS SHALL BE REVIEWED AND APPROVED BY THE ENGINEER OF RECORD PRIOR TO CONSTRUCTING PAVEMENT.

NOTES & LEGEND

HAMILTON
ENGINEERING & SURVEYING, INC
311 NORTH NEWPORT AVENUE, SUITE 100
TAMPA, FL 33606
LB #8474
TEL (813) 250-3535
FAX (813) 250-3636

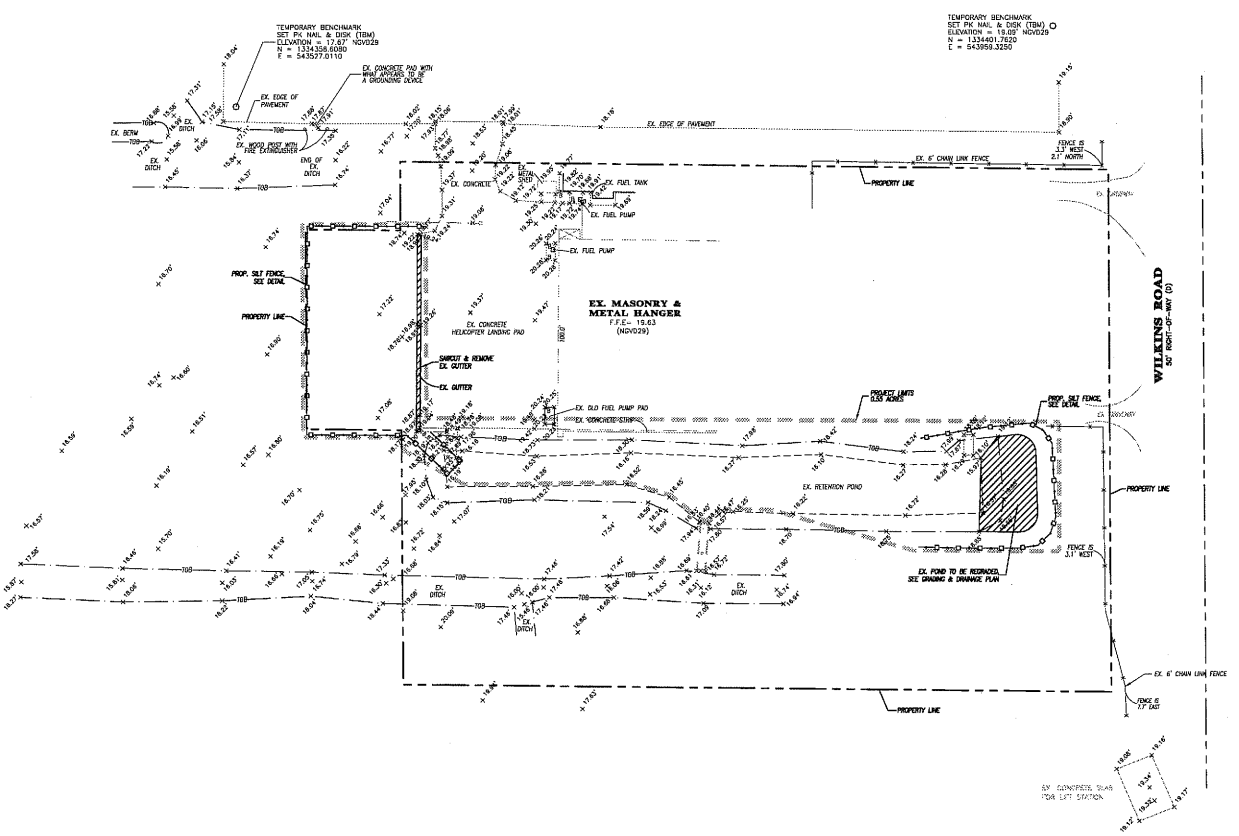
LUCAS CARLO, PE
LICENSE # 61636

DRAWN BY: JCH CHECKED BY: LC
JOB #: 20-080032
SEC TWP RNG: SEC TWP RNG
DATE: 31/28/20
REVISIONS:

HCSO
LANDING PAD EXPANSION VANDENBURG AIRPORT
5808 WILKINS ROAD, TAMPA FL 33610

Rañon & Partners, Inc.
Architects
515 Bay Street, Tampa, Florida 33606
Telephone (813) 253-3465 (AA C000531)

SHEET NUMBER
C1.0



DEMOLITION PLAN

SCALE: 1" = 30'

HAMILTON
ENGINEERING & SURVEYING, INC
311 NORTH NEWPORT AVENUE, SUITE 100
TAMPA, FL 33606
LB #8474
TEL (813) 250-3535
FAX (813) 250-3536

LUCAS CARLO, PE
LICENSE # 61636

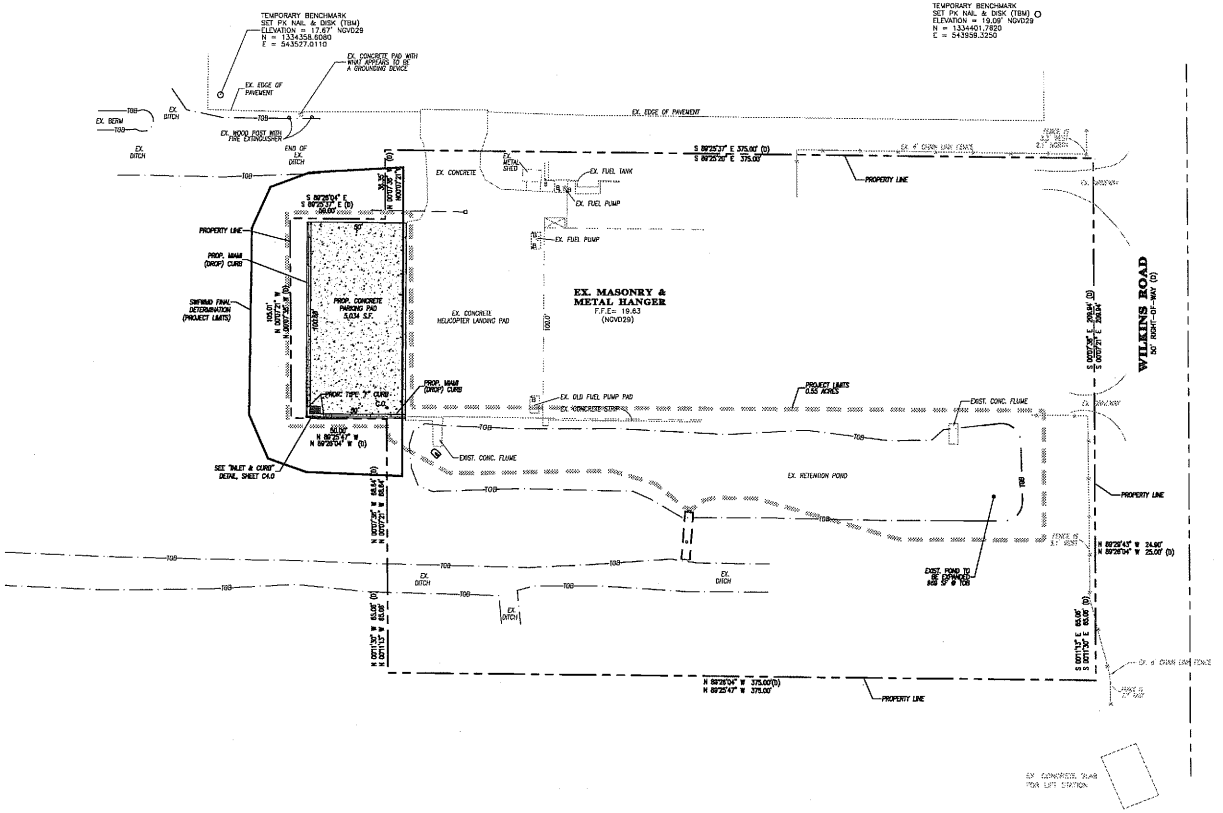
DRAWN BY: JCH	CHECKED BY: LC
JOB #: 20-080032	
SEC TWP RNG: SEC TWP RNG	
DATE: 31/28/20	
REVISIONS:	

HCSO LANDING PAD EXPANSION VANDENBURG AIRPORT

6808 WILKINS ROAD, TAMPA FL 33610

Rañon & Partners, Inc.
Architects
1515 Bay Street, Tampa, Florida 33605
Telephone (813) 253-2453 (AA 0000801)

SHEET NUMBER
C2.0



SITE PLAN

SCALE: 1" = 30'

HAMILTON
ENGINEERING & SURVEYING, INC
511 NORTH NEWPORT AVENUE, SUITE 100
TAMPA, FL 33606
CA #6474
TEL (813) 250-3535
FAX (813) 250-3536

LUCAS CARLO, PE
LICENSE # 61636

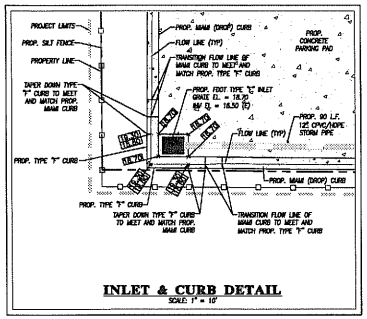
DRAWN BY: JCH
CHECKED BY: LC
JOB #: 20-080032
SEC TWP RNG: SEC TWP RNG
DATE: 3/28/20
REVISIONS:

HCSO LANDING PAD EXPANSION VANDENBURG AIRPORT

5808 WILKINS ROAD, TAMPA FL 33610

Rafon & Partners, Inc.
Architects
315 Bay Street, Tampa, Florida 33606
Telephone (813) 252-3545 (Business)

SHEET NUMBER
C3.0



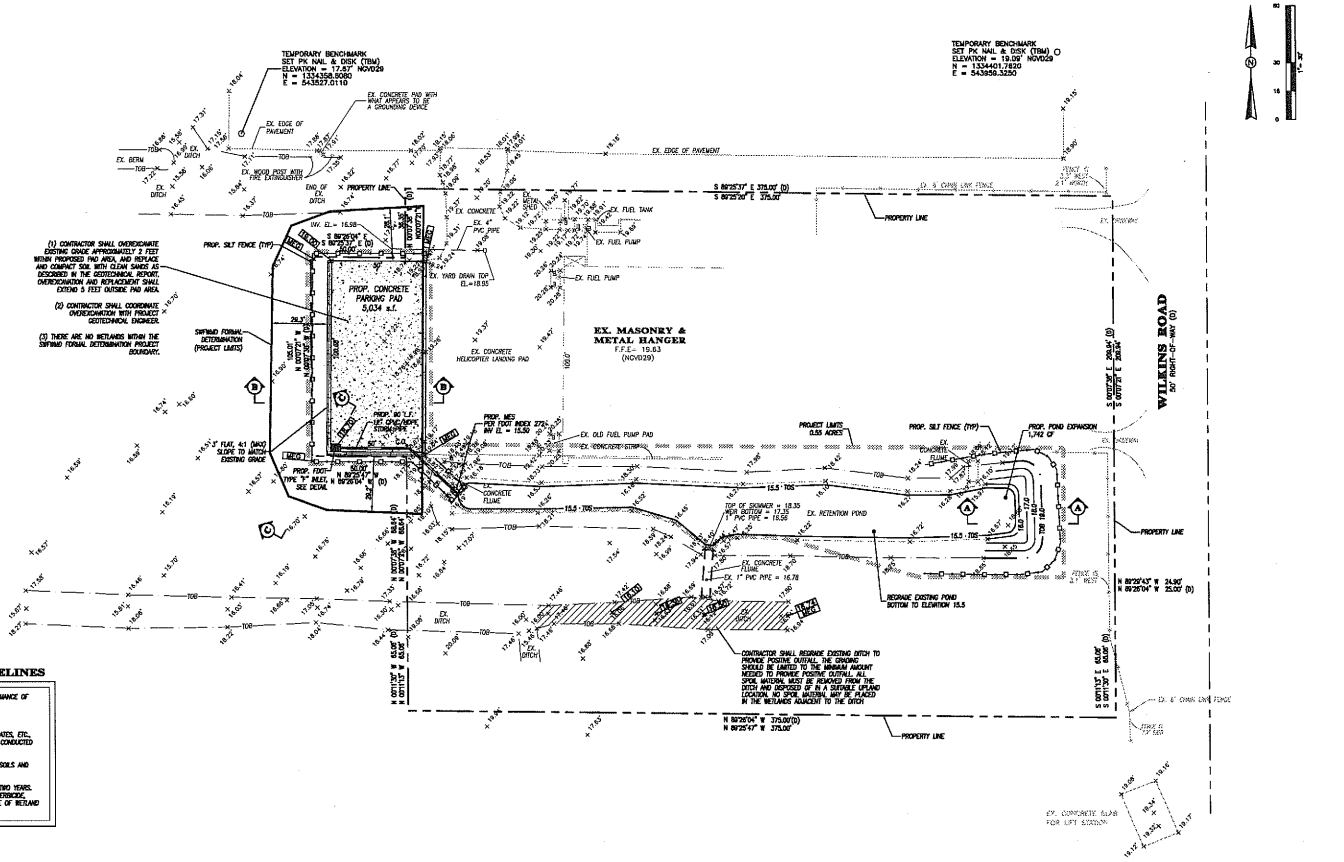
INLET & CURB DETAIL
SCALE: 1" = 10'

BENCHMARK	DATUM
VB-590B EL.=27.71	NGVD29
VB-590A EL.=28.84	NGVD29

CONVERSION: NAVD 1988 = NGVD 1929 -0.85'

FLOOD ZONE X

PANEL # 120112 0238 H DATED AUG 28, 2008



DETENTION POND OPERATION AND MAINTENANCE GUIDELINES

THE WORK SPECIFIED CONSISTS OF THE OPERATION AND MAINTENANCE ACTIVITIES REQUIRED TO INSURE CONTINUED AND PROPER PERFORMANCE OF THE STORMWATER MANAGEMENT SYSTEM.

THE OPERATION AND MAINTENANCE ENTITY SHOULD PERFORM THE FOLLOWING OPERATION AND MAINTENANCE PROCEDURES:

1. DISCHARGE STRUCTURES AND CONTROL DEVICES SHOULD BE MAINTAINED OPERATIONAL BY ELIMINATING CLOGGING OF THE BAFFLES, GRATES, ETC., CAUSED BY TRASH, DEBRIS AND SEDIMENT. THE INSPECTION FOR PROPER OPERATION AND MAINTENANCE OF THESE DEVICES SHOULD BE CONDUCTED QUARTERLY. ADDITIONAL MONITORING AND MAINTENANCE SHOULD BE CONDUCTED AFTER SEVERE RAINFALL EVENTS.

2. ANY ERODED AREAS THAT ARE OBSERVED DURING ROUTINE MAINTENANCE SHOULD BE FILLED AS SOON AS DISCOVERED WITH SIMILAR SOILS AND GRASSED BY SODDING OR SEEDING WITH MULCH CUT IN, DEPENDING ON THE SEASON.

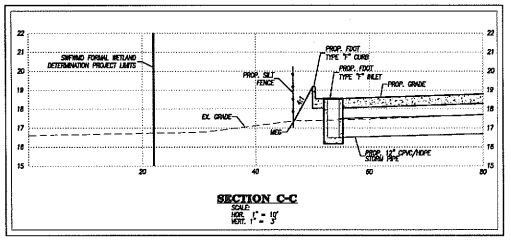
3. IN WET DETENTION AND RETENTION PONDS, THE LITTORAL SHELF AREA MAY BE ALLOWED TO VEGETATE NATURALLY FOR A PERIOD OF TWO YEARS. MOWING OR REMOVAL OF NATIVE VEGETATION, INCLUDING CATTOILS, IS PROHIBITED. REMOVAL INCLUDES DREDGING, THE APPLICATION OF HERBICIDE, INTRODUCTION OF GRASS CARP AND CUTTING. IF NOT ADEQUATELY VEGETATED AFTER THE TWO YEAR PERIOD, PLANTING AND MAINTENANCE OF WETLAND SPECIES MAY BE REQUIRED. MAINTENANCE ENTITY SHOULD CONTACT S.W.F.W.M.D. FOR A DETERMINATION.

CONSTRUCTION SURFACE WATER MANAGEMENT PLAN INFORMATION

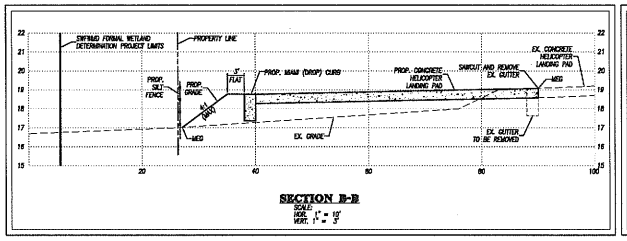
HILLSBOROUGH COUNTY AVIATION AUTHORITY
P.O. BOX 22287
TAMPA, FLORIDA 33622
(813) 870-8700

OWNER SIGNATURE
LOUIS P. RUSSO

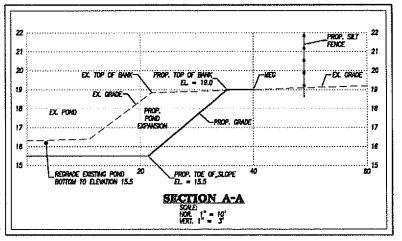
ENGINEER:
HAMILTON ENGINEERING & SURVEYING, INC.
(813) 250-3535



SECTION C-C
SCALE:
HOR. 1" = 10'
VERT. 1" = 3'



SECTION B-B
SCALE:
HOR. 1" = 10'
VERT. 1" = 3'



SECTION A-A
SCALE:
HOR. 1" = 10'
VERT. 1" = 3'

GRADING & DRAINAGE PLAN
SCALE: 1" = 30'

HAMILTON
ENGINEERING & SURVEYING, INC
31 NORTH NEWPORT AVENUE, SUITE 600
TAMPA, FL 33609
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LB #6474

LUCAS CARLO, PE
LICENSE # 61636

DRAWN BY: JCH
CHECKED BY: LC
JOB #: 20-080032
SEC TWP RNG: SEC TWP RNG
DATE: 3/28/20
REVISIONS:

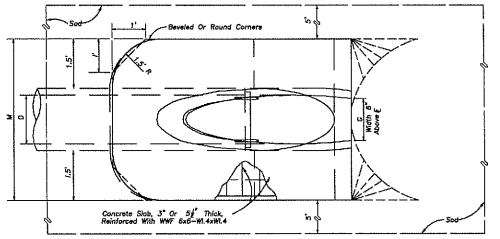
HCSO LANDING PAD EXPANSION VANDENBURG AIRPORT
5808 WILKINS ROAD, TAMPA FL 33610

Rarion & Partners, Inc.
Architects
115 Bay Street, Tampa, Florida 33606
Telephone (813) 253-5465 (fax-same)

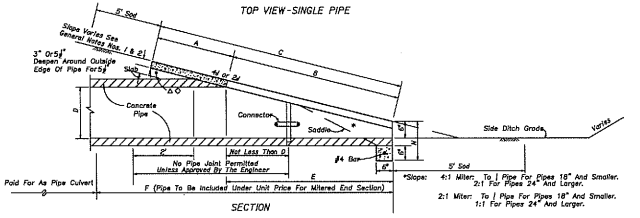
SHEET NUMBER
C4.0

DIMENSIONS AND QUANTITIES

	D	X	A	B	C	E	F	G	M Single Pipe	M Double Pipe	M Triple Pipe	M Quad. Pipe	N	5½" CONCRETE SLAB (CY) Single Pipe	5½" CONCRETE SLAB (CY) Double Pipe	5½" CONCRETE SLAB (CY) Triple Pipe	5½" CONCRETE SLAB (CY) Quad. Pipe	SODDING (SQ. YDS.) Single Pipe	SODDING (SQ. YDS.) Double Pipe	SODDING (SQ. YDS.) Triple Pipe	SODDING (SQ. YDS.) Quad. Pipe
2:1 Slope	15"	2'-7"	1.30'	2.90'	4.60'	2.00'	5'	1.00'	4.63'	7.81'	9.79'	12.37'	1.95'	0.30	0.58	0.71	0.96	21	24	27	30
	18"	2'-10"	1.39'	2.72'	4.77'	2.50'	5'	1.42'	4.92'	7.75'	10.58'	13.42'	1.97'	0.44	0.55	0.89	1.09	22	25	29	31
	24"	3'-5"	2.00'	3.85'	5.94'	3.50'	7'	1.73'	5.50'	8.92'	12.33'	15.75'	1.99'	0.54	0.83	1.12	1.42	24	29	32	35
	30"	3'-9"	2.13'	4.95'	7.24'	4.50'	9'	2.50'	6.08'	10.33'	14.58'	18.83'	1.99'	0.58	1.09	1.54	1.98	26	31	35	40
	36"	4'-3"	2.60'	6.00'	8.51'	5.50'	9'	2.84'	6.67'	11.42'	16.83'	21.92'	1.51'	0.81	1.30	1.90	2.51	28	34	39	45
	42"	4'-9"	2.74'	6.93'	9.93'	6.50'	11'	3.24'	7.92'	13.58'	20.00'	26.42'	1.58'	0.89	1.70	2.50	3.30	30	37	43	50
	48"	5'-3"	2.93'	8.33'	10.93'	7.50'	11'	3.63'	7.83'	13.92'	20.33'	26.58'	1.42'	1.13	2.04	2.93	3.84	32	39	47	54
	54"	5'-9"	3.05'	9.44'	11.96'	8.50'	12'	3.83'	8.42'	15.00'	23.75'	32.42'	1.46'	1.31	2.44	3.58	4.72	34	42	51	59
	60"	6'-3"	3.60'	10.58'	13.67'	9.50'	14'	4.00'	9.00'	17.33'	25.67'	34.00'	1.50'	1.50	2.93	4.42	5.88	36	45	55	64
	66"	6'-9"	3.71'	12.00'	14.39'	10.50'	15'	3.96'	9.50'	18.92'	27.33'	37.08'	1.54'	1.68	3.35	4.95	6.43	38	48	58	68
	72"	7'-3"	3.80'	12.80'	15.60'	11.50'	16'	3.70'	10.16'	20.06'	30.42'	40.16'	1.58'	1.89	3.74	5.58	7.45	40	51	62	73
4:1 Slope	15"	2'-7"	2.27'	4.09'	5.36'	4.03'	9'	1.02'	4.63'	7.81'	9.79'	12.37'	1.95'	0.57	0.87	1.15	1.44	23	26	29	32
	18"	2'-10"	2.36'	5.12	7.40'	5.03'	9'	1.41'	4.92'	7.75'	10.58'	13.42'	1.97'	0.66	0.99	1.31	1.65	25	28	31	35
	24"	3'-5"	2.53'	7.18' Δ	9.71'	7.03' Δ	11'	1.73'	5.50'	8.92'	12.33'	15.75'	1.99'	0.85	1.30	1.75	2.20	28	32	36	40
	30"	3'-9"	2.70'	8.89	11.66'	9.03'	11'	2.00'	6.08'	10.33'	14.58'	18.83'	1.99'	1.40	1.74	2.49	3.00	31	36	41	46
	36"	4'-3"	2.87'	11.70' Δ	14.49'	11.03' Δ	12'	2.24'	6.67'	11.42'	16.83'	21.92'	1.51'	1.98	2.32	3.08	3.98	34	40	45	52
	42"	4'-9"	3.09'	13.37'	16.16'	13.03'	13'	2.45'	7.92'	13.58'	20.00'	26.42'	1.58'	1.98	2.76	3.58	5.09	37	44	51	58
	48"	5'-3"	3.22'	15.42'	18.05'	15.03'	15'	2.63'	7.83'	13.92'	20.33'	26.58'	1.42'	1.85	3.20	4.73	6.12	40	48	56	63
	54"	5'-9"	3.32'	17.46'	19.88'	17.03'	16'	2.83'	8.42'	15.00'	23.75'	32.42'	1.46'	2.14	3.58	5.77	7.38	44	52	61	69
	60"	6'-3"	3.96'	19.53'	21.71'	19.03'	23'	3.00'	9.00'	17.33'	25.67'	34.00'	1.50'	2.43	4.66	6.87	9.07	47	56	65	75
	66"	6'-9"	4.11'	21.60'	23.15'	21.03'	25'	3.18'	9.50'	18.92'	27.33'	37.08'	1.54'	2.88	5.54	8.25	10.94	49	59	69	80
	72"	7'-3"	3.54'	22.50'	24.59'	23.03'	27'	3.30'	10.16'	20.06'	30.42'	40.16'	1.58'	3.54	6.61	9.69'	12.73	52	63	74	85



TOP VIEW-SINGLE PIPE



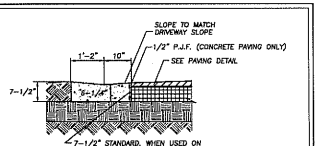
SECTION

F.D.O.T. INDEX NO. 272

MITERED END SECTION

SINGLE ROUND CONCRETE PIPE

N.T.S.



7-1/2" STANDARD. WHEN USED ON THE HIGH SIDE OF ROADWAYS THE CROSS SLOPE OF THE GUTTER SHALL MATCH THE CROSS SLOPE OF THE PVMNT AND THE LIP SHALL BE 6".

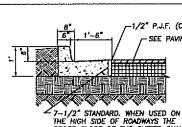
NOTES:

1. PROVIDE 1/8"-1/4" (SAW CUT) CONTRACTION JOINTS AT 10' CENTERS (MAXIMUM). MATCH PAVEMENT JOINTS FOR CONCRETE PAVEMENT.
2. PROVIDE END TRANSITIONS PER F.D.O.T. INDEX NO. 300.

F.D.O.T. INDEX NO. 300

DROP "MIAMI" CURB

N.T.S.



7-1/2" STANDARD. WHEN USED ON THE HIGH SIDE OF ROADWAYS THE CROSS SLOPE OF THE GUTTER SHALL MATCH THE CROSS SLOPE OF THE PVMNT AND THE LIP SHALL BE 6".

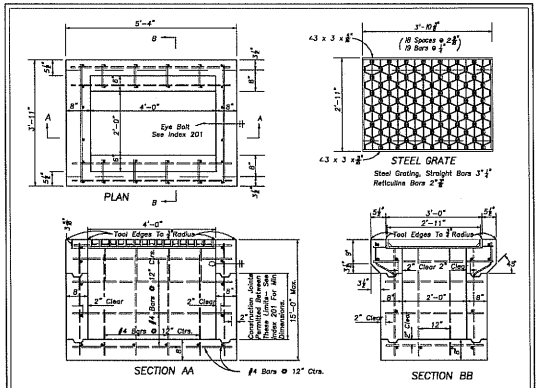
NOTES:

1. PROVIDE 1/8"-1/4" (SAW CUT) CONTRACTION JOINTS AT 10' CENTERS (MAXIMUM). MATCH PAVEMENT JOINTS FOR CONCRETE PAVEMENT.
2. PROVIDE END TRANSITIONS PER F.D.O.T. INDEX NO. 300.
3. PROVIDE 4" MINIMUM BASE COURSE UNDER TYPE "F" CURB.

F.D.O.T. INDEX NO. 300

TYPE "F" CURB AND GUTTER

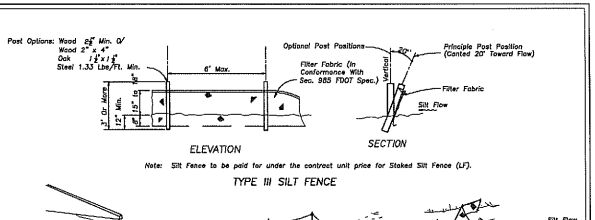
N.T.S.



F.D.O.T. INDEX NO. 233

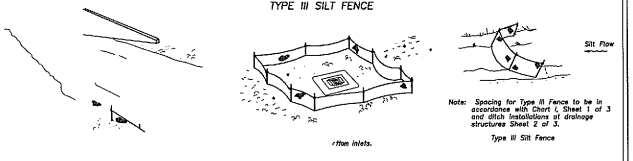
TYPE "F" GRATE INLET

N.T.S.



Note: Silt Fence to be paid for under the contract unit price for Staked Silt Fence (LF).

TYPE III SILT FENCE



*Non inlets.

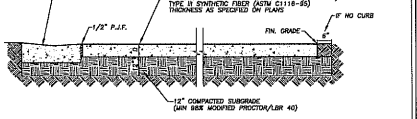
Note: Spacing for Type III Fence to be in accordance with Chart 1, Sheet 1 of 3 and ditch installations at drainage structures Sheet 2 of 3.

Type III Silt Fence

Do not deploy in a manner that silt fences will act as a dam across permanent flowing watercourses. Silt fences are to be used at upland locations and turbidity barriers

SILT FENCE APPLICATIONS

TEMPORARY EROSION CONTROL



NO STEEL REINFORCEMENT IS REQUIRED FOR PAVEMENT AREAS
PROVIDE FIBER REINFORCEMENT AT 1.5 LBS PER CUBIC YARD

TYP. CONCRETE PAVEMENT DETAIL

N.T.S.

DETAILS

HAMILTON ENGINEERING & SURVEYING, INC
311 NORTH NEWPORT AVENUE, SUITE 100
TAMPA, FL 33606
TEL (813) 250-3535
FAX (813) 250-3535
CA #8474
LUCAS CARLO, PE
LICENSE # 61635

DRAWN BY: JCH	CHECKED BY: LC
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HCSO
LANDING PAD EXPANSION VANDENBURG AIRPORT
5808 WILKINS ROAD, TAMPA FL 33610

Raion & Partners, Inc. Architects
515 Bay Street Tampa, Florida 33606
Telephone (813) 252-3465 (w/ Voicemail)

SHEET NUMBER
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