

LEGEND

	RIGHT OF WAY LINE
	EXISTING PROPERTY LINE
	AIRPORT PROPERTY LINE EXISTING/FUTURE
	CENTERLINE PROPOSED RUNWAY/TAXIWAY
	EXISTING LIGHT UNIT (TO BE REMOVED)
	EXISTING LIGHT UNIT
	PROPOSED LIGHT UNIT 1
	PROPOSED LIGHT UNIT 2
	EXISTING WATERWAY
	EXISTING CENTERLINE SWALE
	PROPOSED CENTERLINE SWALE W/FLOW DIRECTION
	EXISTING CONTOUR
	PROPOSED CONTOUR
	CLEARING & GRUBBING
	CLEARING & GRUBBING ALTERNATE AREA
	EXISTING SPOT ELEVATION
	PROPOSED SPOT ELEVATION
	PROPOSED DUCT BANK
	EXISTING EDGE OF TREES / BRUSH
	EXISTING BUILDING
	PROPOSED BUILDING
	PROPOSED STORM DRAINAGE PIPE W/ END SECTIONS
	PAVEMENT CORE
	SOIL BORING W/ IDENTIFICATION NUMBER
	TEST PIT W/ IDENTIFICATION NUMBER
	LIGHT STONE FILL
	RUNWAY OBJECT FREE AREA (ROFA)
	RUNWAY SAFETY AREA (RSA)/ TAXIWAY SAFETY AREA (TSA)
	PROPOSED OBSTRUCTION LIGHT
	PROPOSED NEW LIGHT POLE W/ OBSTRUCTION LIGHT
	STAKED STRAW BALES
	STAKED STRAW BALES
	SEDIMENT FENCE
	NORTH AMERICAN GREEN LINED SWALE
	EXISTING RETROREFLECTIVE MARKER
	PROPOSED RETROREFLECTIVE MARKER
	SURVEY CONTROL POINT AND SITE BENCH MARK
	EXISTING CHAIN LINK FENCE
	EXISTING POWER POLE
	EXISTING POWER POLE W/LIGHT
	ELECTRIC CABLE MARKER
	ELECTRIC DUCT MARKER
	ASPHALT/CONCRETE DEMOLITION AND REMOVAL

ABBREVIATIONS

&	AND
ABND	ABANDONED
ADJ	ADJUST
AOBE	AS ORDERED BY THE ENGINEER
ASPH	ASPHALT
BIT	BITUMINOUS
B	BASELINE
BM	BENCH MARK
BVCE	BEGIN VERTICAL CURVE ELEVATION
BVCS	BEGIN VERTICAL CURVE STATION
CB	CATCH BASIN
C	CENTERLINE
CMP	CORRUGATED METAL PIPE
CMPA	CORRUGATED METAL PIPE (ARCH)
CP	CONTROL POINT
Δ	DELTA
D	DEGREE OF CURVATURE
DI	DROP INLET
DIA	DIAMETER
DIP	DUCTILE IRON PIPE
DR	DRIVEWAY / DRAINAGE STRUCTURE WITH No. e.g.
e	CENTER OF CORRECTION
E	EXTERNAL DISTANCE
EL / ELEV	ELEVATION
EP	EDGE OF PAVEMENT
ES	END SECTION
EVCE	END VERTICAL CURVE ELEVATION
EVCS	END VERTICAL CURVE STATION
EXIST / EX	EXISTING
FBO	FIXED BASED OPERATOR
FI	FIELD INLET
G	GAS LINE
GR	GRAVEL
GV	GAS VALVE
GVGI	GENERIC VISUAL GLIDESLOPE INDICATOR
HCL	HORIZONTAL CONTROL LINE
HORIZ	HORIZONTAL
HP	HIGH POINT
HYD	HYDRANT
INV	INVERT
IP	IRON PIPE
LF	LINEAR FEET
LP / L POLE	LIGHT POLE
LP	LOW POINT
MH	MANHOLE
MAX	MAXIMUM
MIRL	MEDIUM INTENSITY RUNWAY LIGHT
MON	MONUMENT
M	MONUMENT LINE
N/F	NOW OR FORMERLY
N.I.C.	NOT IN CONTRACT
OHE	OVERHEAD ELECTRIC
P	PARCEL
PAPI	PRECISION APPROACH PATH INDICATOR
PAV'T	PAVEMENT
PB	PULL BOX
PC	POINT OF CURVATURE
PCC	PORTLAND CONCRETE CEMENT / POINT OF COMPOUND CURVE
PI	POINT OF INTERSECTION
PK	PK NAIL (SURVEY MARKER)
PK	PROPERTY LINE
P	POWER POLE
PP	PROPOSED
PROP	POINT OF TANGENCY
PT	POINT OF VERTICAL CURVE
PVC	POINT OF VERTICAL INTERSECTION
PVI	RADIUS OF CURVE
R	REINFORCED CONCRETE PIPE
RCP	RESIDENT ENGINEER
RE	RECORD
(REC)	RUNWAY END IDENTIFICATION LIGHTS
REIL	RUNWAY OBJECT FREE AREA
ROFA	RIGHT-OF-WAY
ROW	RUNWAY PROTECTION ZONE
RPZ	RAILROAD
RR	RUNWAY SAFETY AREA
RSA	RETAINING WALL
RW	RUNWAY
R/W	SIGN
S	SANITARY
SAN	SMOOTH FLOW CORRUGATED METAL PIPE (ARCH)
SCMPA	SPECIAL
SP	STATION
STA	STANDARD
STD	STORY
STY	SIDEWALK
SW	TELEPHONE LINE
T	TOP OF GRATE
TG	THEORETICAL GRADE LINE
TGL	TANGENT LENGTH
TL	TAXIWAY SAFETY AREA
TSA	TRANSITION
TRANS	TYPICAL
TYP	TAXIWAY
T/W	UNITED STATES COASTAL AND GEODETIC SURVEY
USC&GS	VALVE
V	VERTICAL CURVE
VC	VITRIFIED CLAY PIPE
VCP	VERTICAL
VERT	VITRIFIED TILE
VT	VITRIFIED TILE PIPE
VTP	WATER LINE
W	WATER VALVE
WV	EXTRA STRENGTH VITRIFIED CLAY PIPE
XVCP	

INDEX TO SHEETS

DRAWING NO.	TITLE
1	COVER SHEET
2	INDEX, LEGEND, ABBREVIATIONS AND QUANTITIES FOR CANVAS OF BID
3	GENERAL PLAN
4	EXISTING CONDITIONS AND DEMOLITION PLAN
5-6	SITE PLANS
7-8	GRADING AND DRAINAGE PLANS
9-12	DETAIL SHEETS

BID DESCRIPTIONS

BASE BID

- BASE BID WORK INCLUDES:
- REMOVE AND DISPOSE OF EXISTING PAVEMENT, CONCRETE, AND UNDERGROUND UTILITIES
 - INSTALL STORMWATER MANAGEMENT FEATURES
 - INSTALL PROPOSED STORMWATER UTILITIES
 - INSTALL CONCRETE PAVEMENT AND FOUNDATION PIERS
 - INSTALL ASPHALT PAVEMENT
 - REINSTALL ALUMINUM FENCE
 - FINAL PAVEMENT MARKINGS
 - INSTALL CONCRETE PAVEMENT AND PIERS
 - RE-INSTALL ALUMINUM FENCE

BID ADD ALTERNATE NO. 1

- ADD ALTERNATE NO. 1 WORK INCLUDES:
- REMOVE AND DISPOSE OF EXISTING PAVEMENT
 - FINE GRADE AND COMPACT EXISTING SUBBASE
 - INSTALL 2" ASPHALT PAVEMENT

BID ADD ALTERNATE NO. 2

- ADD ALTERNATE NO. 2 WORK INCLUDES:
- INSTALL NEW ASPHALT PAVEMENT SECTION

BID ADD ALTERNATE NO. 3

- ADD ALTERNATE NO. 3 WORK INCLUDES:
- RECONSTRUCTING EXISTING AIRPORT AND CONSTRUCTION ACCESS ROAD

QUANTITIES FOR CANVAS OF BIDS

BASE BID

BASE BID			
SPEC ITEM NO.	DESCRIPTION	QUANTITY/ UNIT	FINAL QTY.
A-300-1.2	REINFORCED CONCRETE PIER FOUNDATIONS FOR FUTURE SHADE HANGAR	13 EA	
D-701-2.1	8" DIA. CORRUGATED POLYETHYLENE PIPE, SMOOTH INTERIOR	555 LF	
D-701-2.2	8" DIA. REINFORCED CONCRETE PIPE	85 LF	
D-701-2.3	12" DIA. CORRUGATED POLYETHYLENE PIPE, SMOOTH INTERIOR	50 LF	
D-701.2.4	15" DIA. GALVANIZED METAL END SECTION	1 EA	
D-705-6.1	6" PERFORATED CORRUGATED POLYETHYLENE UNDERDRAIN TUBING, FITTINGS, CLEANOUTS & CONNECTIONS	570 LF	
D-751-6.1	4" MANHOLE, COMPLETE	1 EA	
D-751-6.2	CATCH BASIN, COMPLETE	8 EA	
D-751-6.3	STORMWATER CONTROL STRUCTURE	1 EA	
D-751-6.4	CONNECT PROPOSED STORM PIPES TO EXISTING CATCH BASIN	2 EA	
L-110	3" GALVANIZED STEEL CONDUIT	200 LF	
P-152-2.1	EXCAVATE AND STABILIZE STORMWATER	1 LS	
P-156	SOIL EROSION AND SILTATION CONTROL	1 LS	
P-409-5.1	ASPHALT PAVEMENT	44,900 SF	
P-501-2.1	CONCRETE SLAB (FUTURE SHADE HANGAR)	11,280 SF	
P-501-2.2	CONCRETE SLAB (HELIPAD)	260 SF	
P-501-2.3	CONCRETE SLABS (FUEL FARM)	680 SF	
P-612.1	ENGINEER'S FIELD OFFICE	1 FIXED	
P-620	PAVEMENT MARKINGS	375 SF	
S-126-5.1	PROJECT SURVEY AND STAKEOUT	1 LS	
M-200	MOBILIZATION (% SUB. MAX)	1 LS	

ADD ALTERNATE #1

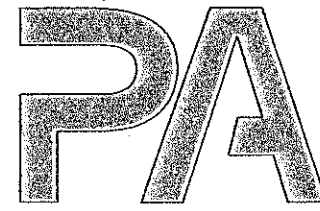
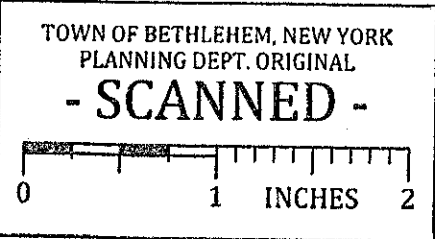
P-152-2.2	EXCAVATE AND REMOVE EXISTING DETERIORATED PAVEMENT	1	LS	
P-155-5.3	FINE GRADE EXISTING SUBBASE MATERIAL	1,300	SY	
P-409-5.2	2" ASPHALT PAVEMENT, COMPLETE IN-PLACE	11,500	SF	
S-126-5.1	PROJECT SURVEY AND STAKEOUT	1	LS	

ADD ALTERNATE #2

P-409-5.3	ASPHALT PAVEMENT, COMPLETE IN-PLACE	10,000	SF	
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ADD ALTERNATE #3

P-409-5.4	ASPHALT PAVEMENT, COMPLETE IN-PLACE	8,000	SF	
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PASSERO ASSOCIATES

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Town of Bethlehem
Planning Board Approval

PLANNING BOARD
TOWN OF BETHLEHEM
ALBANY COUNTY, NEW YORK
By direction of the Chairman.
These drawings are hereby approved.
See sheet(s) 5 and 6
for date and signature.

Stamp:



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Principal-in-Charge Wayne F.Wegman, P.E.
Project Manager Shawn R. Bray, P.E.
Designed by Matt Nissen, E.I.T.

Revisions

No.	Date	By	Description
1	5/16/14	M.N.	REVISIONS PER TOWN COMMENTS AND SWPPP DEVELOPMENT
2	7/1/14	M.N.	SWPPP REVISIONS
3	9/9/14	M.N.	REVISED PER DOT COMMENTS

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Index Sheet

Relocate/Improve Fuel Farm
Establish Heliport/Pave Apron

**South Albany
Airport**

Town/City: Town of Bethlehem
County: Albany State: New York

Project No.
25000247.0010

Drawing No.
2

Date
January, 2015