

CONTRACT DRAWINGS FOR:

# RELOCATE/IMPROVE FUEL FARM; ESTABLISH HELIPAD & PAVE APRON

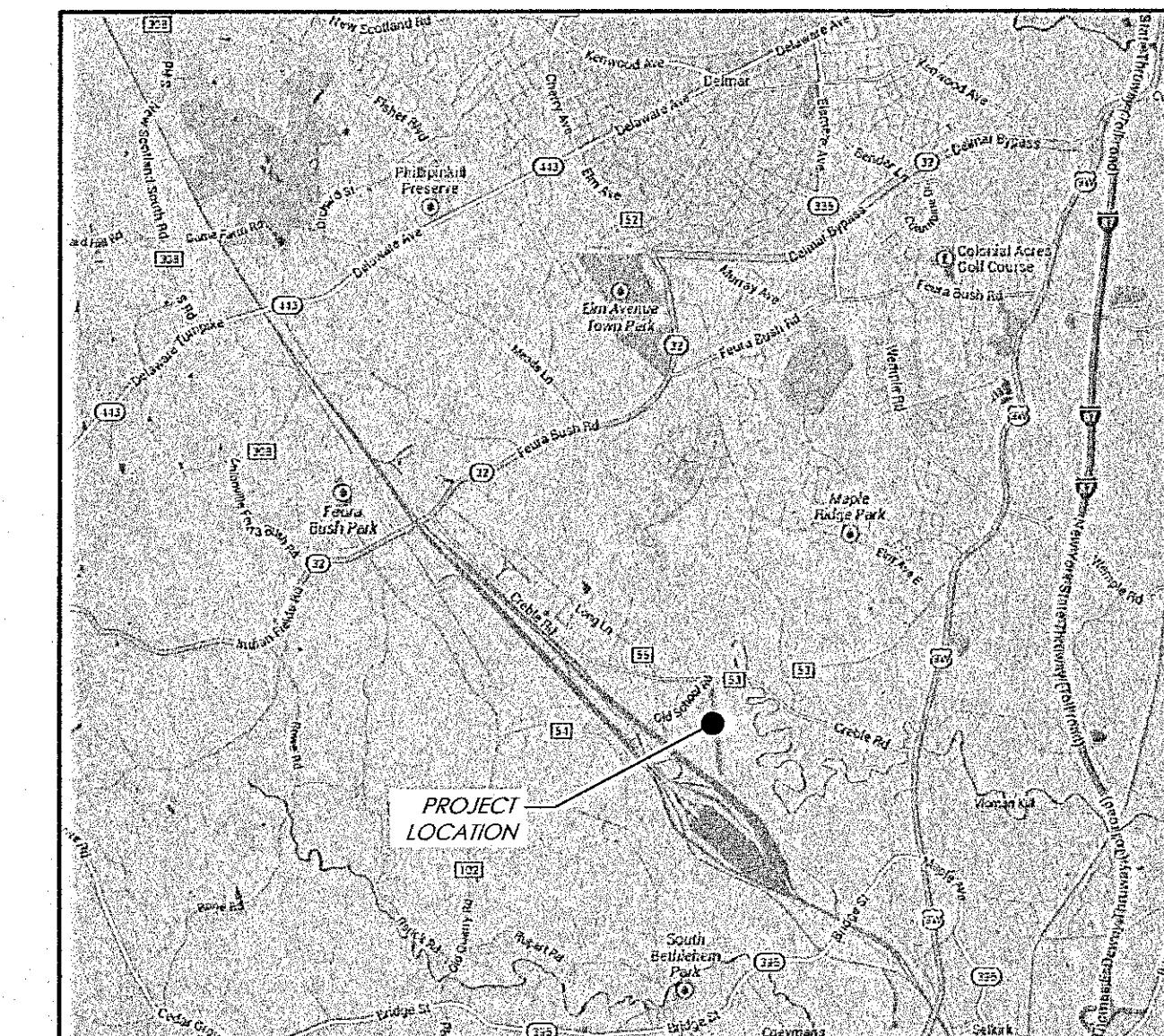
- **SOUTH ALBANY AIRPORT (4B0)  
SELKIRK, NY**

**SOUTH ALBANY AIRPORT CORPORATION  
SELKIRK, NEW YORK  
JANUARY, 2015**

OWNER/APPLICANT:  
SOUTH ALBANY AIRPORT CORPORATION

NEW YORK STATE DEPARTMENT OF TRANSPORTATION

PROJECT NO. 1915.55



LOCATION MAP  
NOT TO SCALE

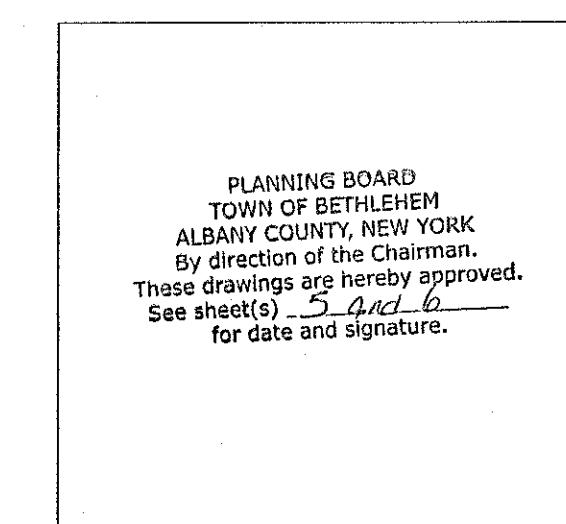
**PA** PASSERO ASSOCIATES  
engineering architecture

SUBMITTED BY: SHAWN R. BRAY, P.E. DATE: \_\_\_\_\_  
LICENSE NUMBER 071383

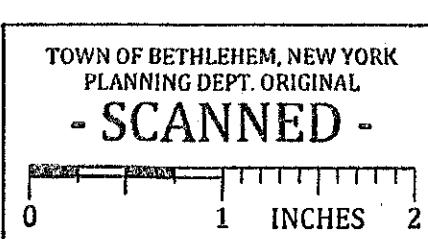
SOUTH ALBANY AIRPORT

APPROVED BY: PRESIDENT DATE: \_\_\_\_\_

TOWN OF BETHLEHEM  
PLANNING BOARD APPROVAL



**BID SET**

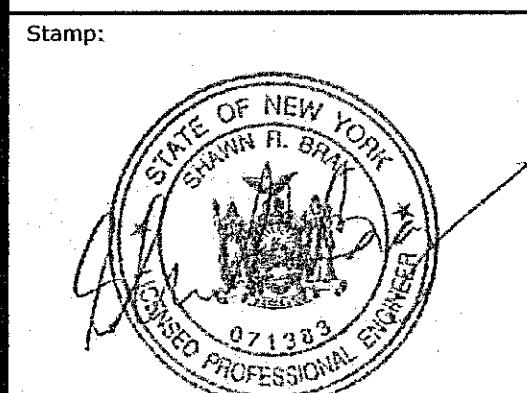


SUP 10C / SPA 155C

08/05/2014

**PA**  
PASSERO ASSOCIATES  
Engineering • Architecture  
www.pasero.com

Town of Bethlehem  
Planning Board Approval



Client:  
**South Albany  
Airport Corporation**  
6 Old School Road  
Selkirk, NY 12158  
(518) 767-9189

**Passero Associates**

112 State Street, Suite 1000  
Albany, NY 12207  
(518) 934-8804  
Fax: (518) 934-8803

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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**Cover Sheet**

Relocate/Improve Fuel Farm  
Establish Heliport/Pave Apron

**South Albany  
Airport**

Town/City: Town of Bethlehem

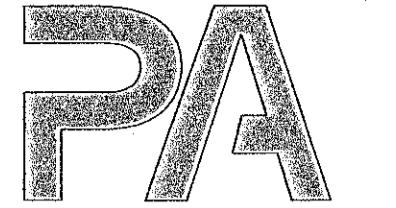
County: Albany State: New York

Project No. 250000247.0010

Drawing No. 1

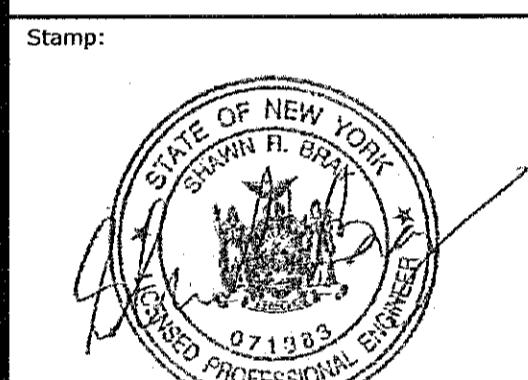
Date January, 2015

LEGEND		ABBREVIATIONS		INDEX TO SHEETS		QUANTITIES FOR CANVAS OF BIDS																																																																																																													
		<b>ABBREVIATIONS</b> <ul style="list-style-type: none"> <li>R.O.W. RIGHT OF WAY LINE</li> <li>EAPL/FAPL EXISTING PROPERTY LINE</li> <li>BIT CENTERLINE PROPOSED RUNWAY/TAXIWAY</li> <li>EXISTING LIGHT UNIT (TO BE REMOVED)</li> <li>EXISTING LIGHT UNIT</li> <li>PROPOSED LIGHT UNIT 1</li> <li>PROPOSED LIGHT UNIT 2</li> <li>EXISTING WATERWAY</li> <li>EXISTING CENTERLINE SWALE</li> <li>PROPOSED CENTERLINE SWALE W/FLOW DIRECTION</li> <li>EXISTING CONTOUR</li> <li>PROPOSED CONTOUR</li> <li>CLEARING &amp; GRUBBING</li> <li>CLEARING &amp; GRUBBING ALTERNATE AREA</li> <li>EXISTING SPOT ELEVATION</li> <li>PROPOSED SPOT ELEVATION</li> <li>PROPOSED DUCT BANK</li> <li>EXISTING EDGE OF TREES / BRUSH</li> <li>EXISTING BUILDING</li> <li>PROPOSED BUILDING</li> <li>PROPOSED STORM DRAINAGE PIPE W/ END SECTIONS</li> <li>PAVEMENT CORE</li> <li>SOIL BORING W/ IDENTIFICATION NUMBER</li> <li>TEST PIT W/ IDENTIFICATION NUMBER</li> <li>LIGHT STONE FILL</li> <li>RUNWAY OBJECT FREE AREA (ROFA)</li> <li>RUNWAY SAFETY AREA (RSA)/ TAXIWAY SAFETY AREA (TSA)</li> <li>PROPOSED OBSTRUCTION LIGHT</li> <li>PROPOSED NEW LIGHT POLE W/ OBSTRUCTION LIGHT</li> <li>STAKED STRAW BALES</li> <li>STAKED STRAW BALES</li> <li>SEDIMENT FENCE</li> <li>NORTH AMERICAN GREEN LINED SWALE</li> <li>EXISTING RETROREFLECTIVE MARKER</li> <li>PROPOSED RETROREFLECTIVE MARKER</li> <li>SURVEY CONTROL POINT AND SITE BENCH MARK</li> <li>EXISTING CHAIN LINK FENCE</li> <li>EXISTING POWER POLE</li> <li>EXISTING POWER POLE W/LIGHT</li> <li>ELECTRIC CABLE MARKER</li> <li>ELECTRIC DUCT MARKER</li> <li>ASPHALT/CONCRETE DEMOLITION AND REMOVAL</li> <li>&amp; AND</li> <li>ABND ABANDONED</li> <li>ADJ. ADJUST</li> <li>A0BE AS ORDERED BY THE ENGINEER</li> <li>ASPH. ASPHALT</li> <li>BIT BITUMINOUS</li> <li>BM. BASELINE</li> <li>BVCE BENCH MARK</li> <li>BVCS BEGIN VERTICAL CURVE ELEVATION</li> <li>CB CATCH BASIN</li> <li>C. CENTERLINE</li> <li>CMP CORRUGATED METAL PIPE</li> <li>CMPA CORRUGATED METAL PIPE (ARCH)</li> <li>CP CONTROL POINT</li> <li>△ DEGREE OF CURVATURE</li> <li>DI DROP INLET</li> <li>DIA DIAMETER</li> <li>DIP DUCTILE IRON PIPE</li> <li>DR DRIVEWAY / DRAINAGE STRUCTURE WITH NO. e.g. DR 6</li> <li>e CENTER OF CORRECTION</li> <li>E EXTERNAL DISTANCE</li> <li>EL / ELEV ELEVATION</li> <li>EP EDGE OF PAVEMENT</li> <li>ES END SECTION</li> <li>EVCE END VERTICAL CURVE ELEVATION</li> <li>EVCS END VERTICAL CURVE STATION</li> <li>EXIST EXISTING</li> <li>FBO FIXED BASED OPERATOR</li> <li>FI FIELD INLET</li> <li>G GAS LINE</li> <li>GR GRAVEL</li> <li>GV GAS VALVE</li> <li>GVGI GENERIC VISUAL GLIDESLOPE INDICATOR</li> <li>HCL HORIZONTAL CONTROL LINE</li> <li>HORIZ HORIZONTAL</li> <li>HP HIGH POINT</li> <li>HYD HYDRANT</li> <li>INV INVERT</li> <li>IP IRON PIPE</li> <li>LF LINEAR FEET</li> <li>LP LIGHT POLE</li> <li>LP LOW POINT</li> <li>MH MANHOLE</li> <li>MAX MAXIMUM</li> <li>MIRL MEDIUM INTENSITY RUNWAY LIGHT</li> <li>MON MONUMENT</li> <li>MONL MONUMENT LINE</li> <li>N/F NOW OR FORMERLY</li> <li>N.I.C. NOT IN CONTRACT</li> <li>OHE OVERHEAD ELECTRIC</li> <li>P PARCEL</li> <li>PAPI PRECISION APPROACH PATH INDICATOR</li> <li>PAVEMENT PAVEMENT</li> <li>PB PULL BOX</li> <li>PC POINT OF CURVATURE</li> <li>PCC PORTLAND CONCRETE CEMENT / POINT OF COMPOUND CURVE</li> <li>PI POINT OF INTERSECTION</li> <li>PK NAIL ( SURVEY MARKER )</li> <li>PP PROPERTY LINE</li> <li>PP POWER POLE</li> <li>PROP PROPOSED</li> <li>PT POINT OF TANGENCY</li> <li>PVC POINT OF VERTICAL CURVE</li> <li>PVI POINT OF VERTICAL INTERSECTION</li> <li>R RADIUS OF CURVE</li> <li>RCP REINFORCED CONCRETE PIPE</li> <li>RE RESIDENT ENGINEER</li> <li>(REC) RECORD</li> <li>REIL RUNWAY END IDENTIFICATION LIGHTS</li> <li>ROFA RUNWAY OBJECT FREE AREA</li> <li>ROW RIGHT-OF-WAY</li> <li>RPZ RUNWAY PROTECTION ZONE</li> <li>RR RAILROAD</li> <li>RSA RUNWAY SAFETY AREA</li> <li>RW RETAINING WALL</li> <li>R/W RUNWAY</li> <li>S SIGN</li> <li>SAN SANITARY</li> <li>SFCMPA SMOOTH FLOW CORRUGATED METAL PIPE (ARCH)</li> <li>SP SPECIAL</li> <li>STA STATION</li> <li>STD STANDARD</li> <li>STY STORY</li> <li>SW SIDEWALK</li> <li>T TELEPHONE LINE</li> <li>TG TOP OF CRATE</li> <li>TGL THEORETICAL GRADE LINE</li> <li>TL TANGENT LENGTH</li> <li>TSA TAXIWAY SAFETY AREA</li> <li>TRANS TRANSITION</li> <li>TYP TYPICAL</li> <li>T/W TAXIWAY</li> <li>USC&amp;GS UNITED STATES COASTAL AND GEODETIC SURVEY</li> <li>V VALVE</li> <li>VC VERTICAL CURVE</li> <li>VCP VITRIFIED CLAY PIPE</li> <li>VERT VERTICAL</li> <li>VT VITRIFIED TILE</li> <li>VTP VITRIFIED TILE PIPE</li> <li>W WATER LINE</li> <li>WV WATER VALVE</li> <li>XVCP EXTRA STRENGTH VITRIFIED CLAY PIPE</li> </ul>		<b>INDEX TO SHEETS</b> <table border="1"> <thead> <tr> <th>DRAWING NO.</th> <th>TITLE</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>COVER SHEET</td> </tr> <tr> <td>2</td> <td>INDEX, LEGEND, ABBREVIATIONS AND QUANTITIES FOR CANVAS OF BID</td> </tr> <tr> <td>3</td> <td>GENERAL PLAN</td> </tr> <tr> <td>4</td> <td>EXISTING CONDITIONS AND DEMOLITION PLAN</td> </tr> <tr> <td>5-6</td> <td>SITE PLANS</td> </tr> <tr> <td>7-8</td> <td>GRADING AND DRAINAGE PLANS</td> </tr> <tr> <td>9-12</td> <td>DETAIL SHEETS</td> </tr> </tbody> </table>		DRAWING NO.	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Engineering • Architecture  
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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) SA-1 for date and signature.



Client:  
**South Albany Airport Corporation**  
6 Old School Road  
Selkirk, NY 12158  
(518) 767-9189

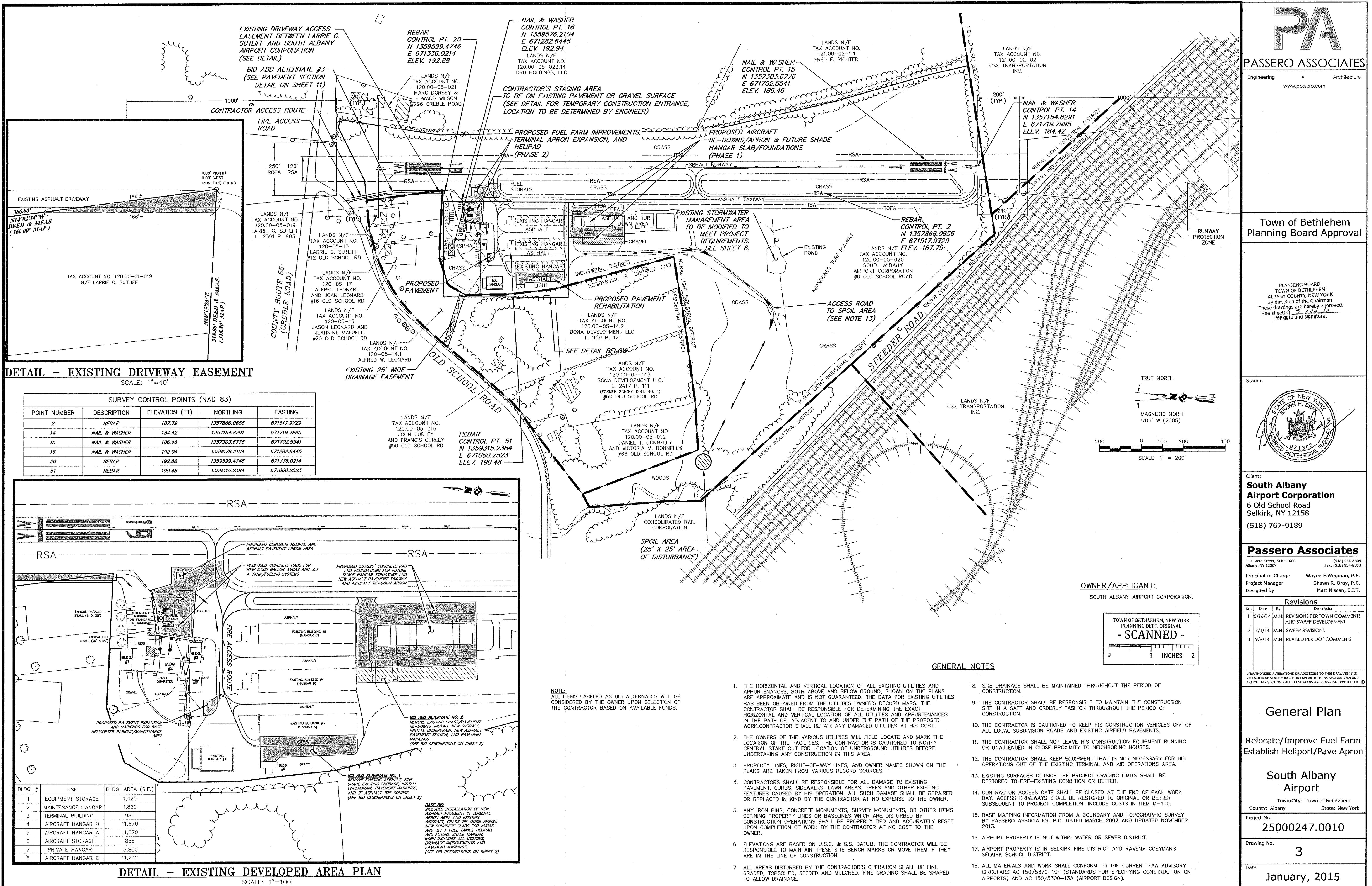
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Project Manager Shawn R. Bray, P.E.  
Designed by Matt Nissen, E.I.T.

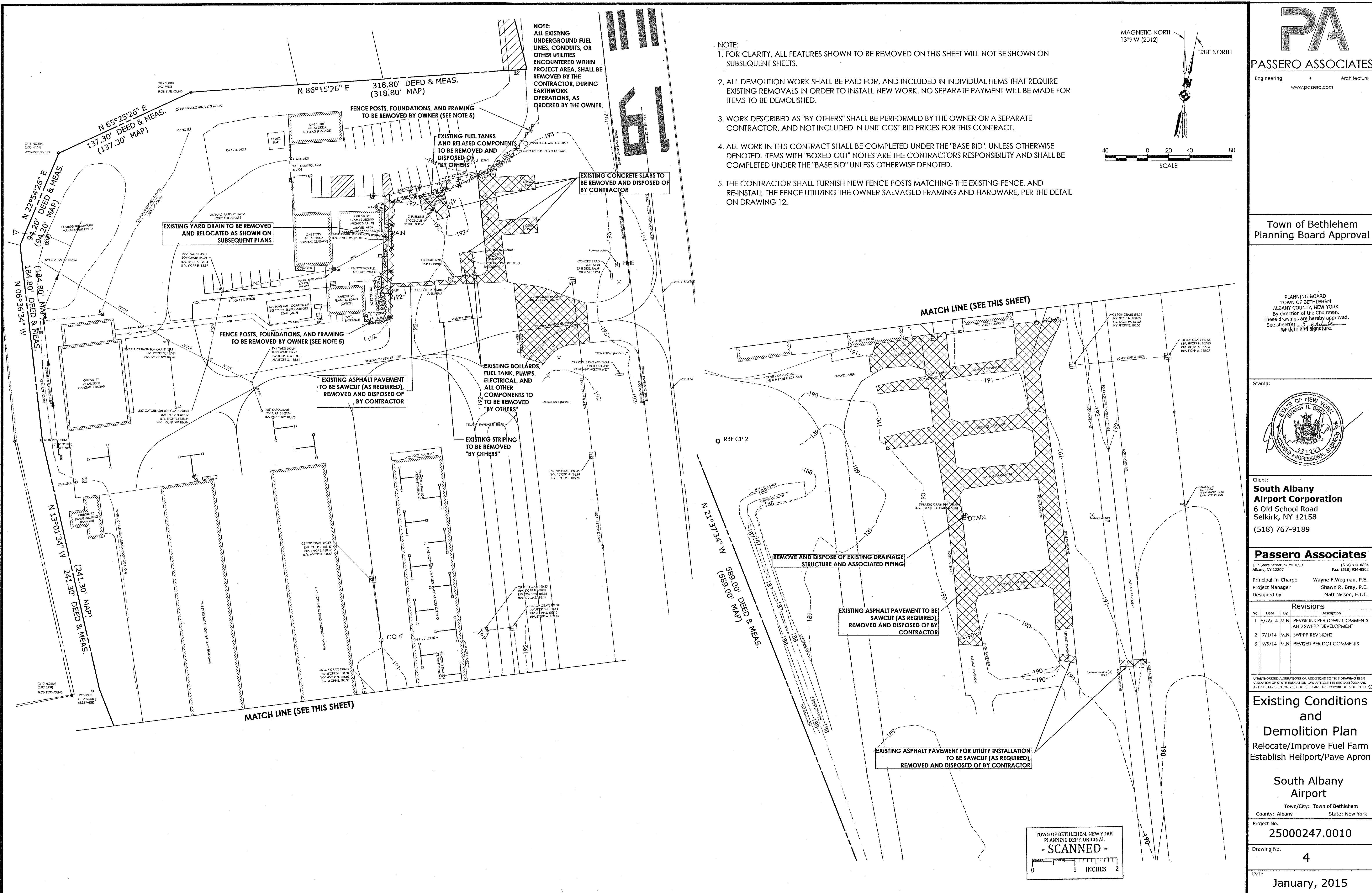
No.	Date	By	Description
1	5/16/14	M.N.	REVISIONS PER TOWN COMMENTS AND SWPPP
2	7/1/14	M.N.	SWPPP REVISIONS
3	9/9/14	M.N.	REVISED PER DOT COMMENTS

TOWN OF BETHLEHEM, NEW YORK  
PLANNING DEPT. ORIGINAL  
- SCANNED -  
0 1 INCHES 2

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January, 2015



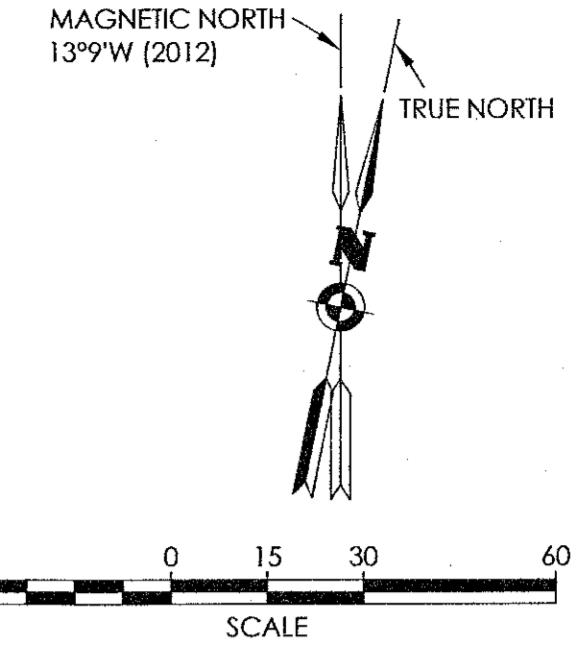
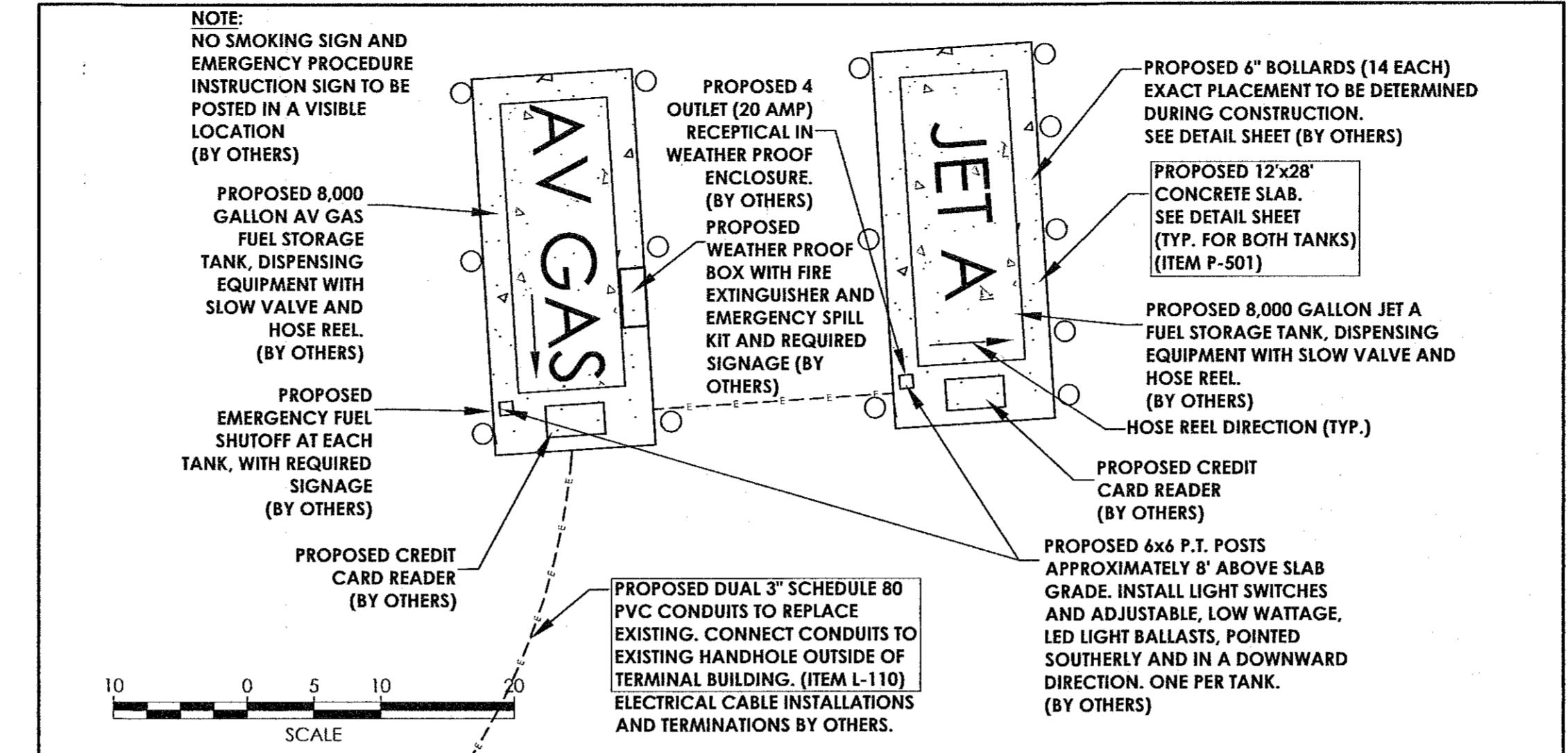


**SITE DATA:**

1. TAX ACCT. NUMBER: 120.00-05-020
2. PARCEL ADDRESS: 6 OLD SCHOOL ROAD, SELKIRK, NY 12158
3. TOTAL PARCEL AREA: 66.30 ACRES
4. PROPOSED DISTURBANCE AREA: 110,935 S.F. OR 2.55 ACRES
5. EXISTING ZONING: RURAL LIGHT INDUSTRIAL DISTRICT
6. PROPOSED USE: NO CHANGE IN USE (AIRCRAFT PARKING/TIE-DOWNS & FUELING FACILITY)
7. CURRENT USE: SAME AS PROPOSED
8. SETBACK REQUIREMENTS FOR PARKING AREAS/STORAGE TANKS      REQUIRED      PROVIDED

8.1. FRONT	50' + 100'	122'
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9. PARKING REQUIREMENTS: NO PROPOSED CHANGES TO EXISTING PARKING
  - 9.1.1 EXISTING: 28 STANDARD; 6 HANDICAP
10. THERE ARE NO FEDERALLY REGULATED WETLANDS ON THIS PARCEL ACCORDING TO U.S. FISH AND WILDLIFE SERVICE NATIONAL WETLAND INVENTORY.
11. THERE ARE NO STATE REGULATED WETLANDS ON THIS PARCEL ACCORDING TO NYSDEC WETLAND INVENTORY.
12. THERE ARE NO FLOOD PLAINS ON THIS PARCEL PER FIRM MAP COMMUNITY PANEL 3615400017B DATED 7/15/1983.
13. PUBLIC WATER IS CURRENTLY PROVIDED BY AN EXISTING ON-SITE WELL.
14. SANITARY COLLECTION IS CURRENTLY PROVIDED TO THE SITE BY AN EXISTING PRIVATE SEPTIC SYSTEM.
15. STORM SEWER AND DRAINAGE FACILITIES ARE PRIVATE AND MAINTAINED BY THE OWNER OF THE PROPERTY.
16. ALL IMPROVEMENTS SHALL BE MADE IN ACCORDANCE WITH THE CURRENT DEVELOPMENT STANDARDS AND SPECIFICATIONS OF THE TOWN OF BETHLEHEM.
17. IMPERVIOUS COVER WITHIN DISTURBED AREA
  - 17.1. EXISTING: 36,155 S.F. OR 0.83 ACRES; 43% OF THE DISTURBED AREA
  - 17.2. PROPOSED: 83,560 S.F. OR 1.92 ACRES; 99.5% OF THE DISTURBED AREA
18. HELIPAD: TLOF (TOUCHDOWN AND LIFTOFF AREA); FATO (FINAL APPROACH AND TAKEOFF AREA)

## FUEL FARM BLOW-UP DETAILED



# PASSERO ASSOCIATES

[www.passero.com](http://www.passero.com)

10.1007/s00339-007-0322-2

## Town of Bethlehem Planning Board Approval

PLANNING BOARD  
TOWN OF BETHLEHEM  
ALBANY COUNTY, NEW YORK

SUP 10C / SPA 155C

**Client:**  
**South Albany  
Airport Corporation**  
6 Old School Road  
Selkirk, NY 12158  
(518) 767-9189

**Passero Associates**  
112 State Street, Suite 1000 (518) 934-8804  
Albany, NY 12207 Fax: (518) 934-8803

Principal-in-Charge Wayne F. Wegman, P.E.  
Project Manager Shawn R. Bray, P.E.

Revisions			
No.	Date	By	Description
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2	7/1/14	M.N.	SWPPP REVISIONS
3	9/9/14	M.N.	REVISED PER DOT COMMENTS

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO THIS DRAWING IS IN VIOLATION OF STATE EDUCATION LAW ARTICLE 145 SECTION 7209 AND

Relocate/Improve Fuel Farm  
Establish Helipad/Pave Apron

# South Albany Airport

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

Project No.

Drawing No.

5

Date

1. *What is the name of the author of the book?*

## **CONSTRUCTION "PHASE 2"**



CONSTRUCTION SEQUENCE FOR  
GRADING AND EROSION CONTROL FOR ALL  
DISTURBED AREAS:

1. INSTALL SILT FENCES, STABILIZED CONSTRUCTION ENTRANCE AND OTHER EROSION CONTROL MEASURES AS SHOWN ON THE PLANS
2. PROTECT VEGETATION TO REMAIN
3. CONSTRUCT STORMWATER MANAGEMENT AREA AS SHOWN ON THE PLANS
4. CLEAR AND GRUB SITE, STRIP AND STOCKPILE TOPSOIL AS NECESSARY
5. IMPORT NECESSARY FILL MATERIAL AND CONDUCT MASS EARTH MOVING ACTIVITIES
6. INSTALL UTILITIES INCLUDING STORM SEWERS AND STORMWATER MANAGEMENT AREA
7. BOX OUT PAVEMENT AREAS AND PREPARE FOR MATERIAL INSTALLATION
8. INSTALL SUBBASE AND CONTINUE MONITORING OF EROSION CONTROL
9. STABILIZE DISTURBED AREAS AND STOCKPILES WITHIN 14 DAYS OF LAST CONSTRUCTION ACTIVITY IN ALL AREAS
10. FINAL GRADING, SEEDING, AND MULCHING OF ALL DISTURBED AREAS. SLOPES SHALL NOT EXCEED 1' VERTICAL TO 3' HORIZONTAL
11. WHEN ALL WORK AREAS ARE COMPLETE AND THE ENTIRE AREAS ARE STABILIZED, REMOVE THE EROSION CONTROL MEASURES AFTER APPROVED BY A QUALIFIED PROFESSIONAL

ALL AREAS OF THE PROJECT SITE THAT INVOLVE SOIL DISTURBING ACTIVITIES ARE REQUIRED TO PROVIDE THE FOLLOWING SEED MIXTURES DURING CONSTRUCTION:

ADD 6" TOPSOIL & TEMPORARY SEEDING: RYEGRASS (ANNUAL OR PERENNIAL) @ 30LBS. PER ACRE OR 0.7 LBS. PER 1000 SQUARE FEET.

ADD 6" TOPSOIL & PERMANENT SEEDING:

65% KENTUCKY BLUEGRASS BLEND @ 85LBS. PER ACRES OR 2.0-2.6 LBS. PER 1000 SQUARE FEET 20% PERENNIAL RYEGRASS @ 26-35 LBS. PER ACRE OR 0.6-0.8 LBS. PER 1000 SQUARE FEET 15% FINE FESCUE @ 19-26 LBS. PER ACRE OR 0.4-0.6 LBS. PER 1000 SQUARE FEET

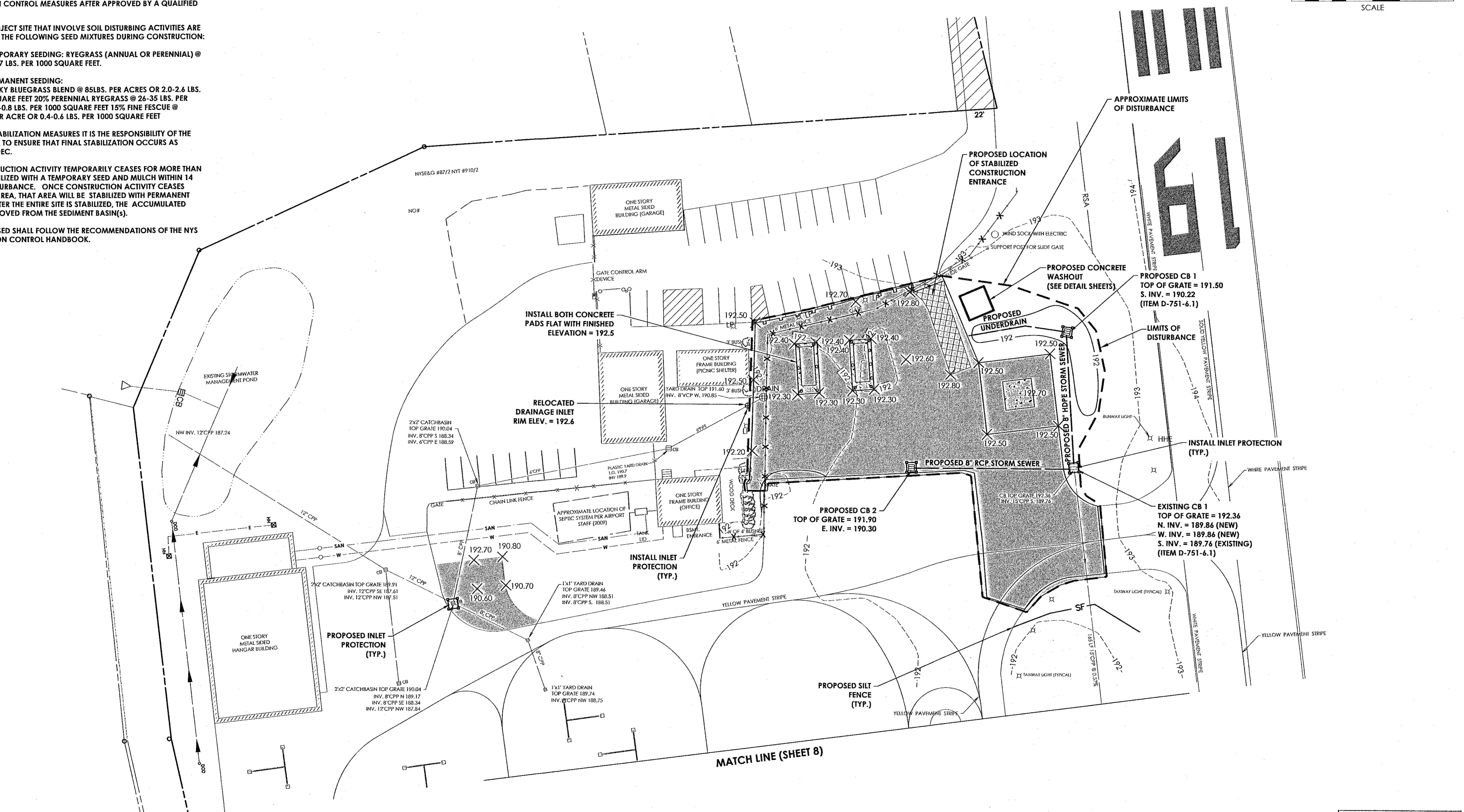
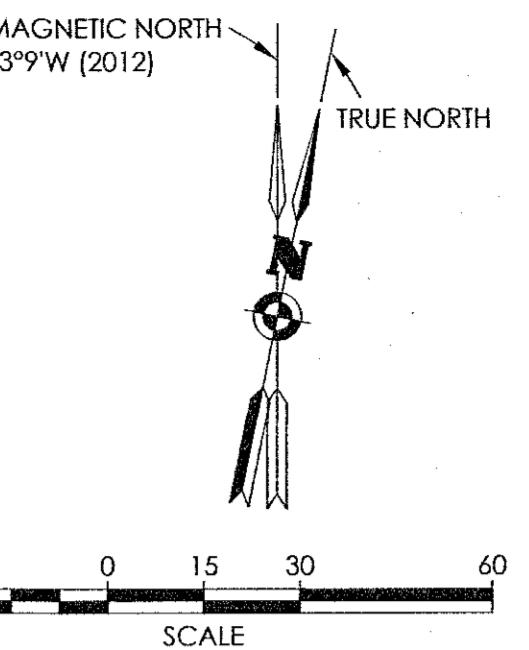
FOR ALL SEEDING & STABILIZATION MEASURES IT IS THE RESPONSIBILITY OF THE OWNER & DEVELOPER TO ENSURE THAT FINAL STABILIZATION OCCURS AS REQUIRED BY THE NYSDEC.

AREAS WHERE CONSTRUCTION ACTIVITY TEMPORARILY CEASES FOR MORE THAN 21 DAYS WILL BE STABILIZED WITH A TEMPORARY SEED AND MULCH WITHIN 14 DAYS OF THE LAST DISTURBANCE. ONCE CONSTRUCTION ACTIVITY CEASES PERMANENTLY IN AN AREA, THAT AREA WILL BE STABILIZED WITH PERMANENT SEED AND MULCH. AFTER THE ENTIRE SITE IS STABILIZED, THE ACCUMULATED SEDIMENT WILL BE REMOVED FROM THE SEDIMENT BASIN(S).

\*ALL SEED MIXTURES USED SHALL FOLLOW THE RECOMMENDATIONS OF THE NYS SEDIMENT AND EROSION CONTROL HANDBOOK.

## GRADING NOTES FOR ALL DISTURBED AREAS:

1. THE CONTRACTOR SHALL STRIP THE TOPSOIL AND REMOVE ANY UNSUITABLE SOILS, WITHIN THE PROPOSED GRADING LIMITS PRIOR TO PLACEMENT OF FILL MATERIAL
2. ALL FILL AREAS SHALL BE COMPACTED TO A MINIMUM OF 95% OF MAXIMUM DENSITY OF STANDARD PROCTOR TEST AT OPTIMUM MOISTURE CONTENT.



## CONSTRUCTION "PHASE 2"



PASSERO ASSOCIATES

Engineering • Architecture

www.pasero.com

Town of Bethlehem  
Planning Board Approval

PLANNING BOARD  
TOWN OF BETHLEHEM  
ALBANY COUNTY, NEW YORK  
By direction of the Chairman.  
These plans are hereby approved.  
Signed \_\_\_\_\_  
for date and signature.

Stamp:



Client:  
**South Albany  
Airport Corporation**  
6 Old School Road  
Selkirk, NY 12158  
(518) 767-9189

**Passero Associates**

112 State Street, Suite 1000  
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Principal-in-Charge Wayne F. Wegman, P.E.  
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Designed by Matt Nissen, E.I.T.

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UNAUTHORIZED ALTERATIONS OR ADDITIONS TO THIS DRAWING IS IN VIOLATION OF STATE EDUCATION LAW ARTICLE 145 SECTION 2209 AND ARTICLE 147 SECTION 7307. THESE PLANS ARE COPYRIGHT PROTECTED ©

Grading and  
Drainage PlanRelocate/Improve Fuel Farm  
Establish Heliport/Pave ApronSouth Albany  
Airport

Town/City: Town of Bethlehem

County: Albany State: New York

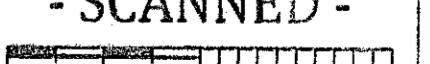
Project No. 25000247.0010

Drawing No. 7

Date January, 2015

TOWN OF BETHLEHEM, NEW YORK  
PLANNING DEPT. ORIGINAL

- SCANNED -



# **CONSTRUCTION "PHASE 1"**

**NOTE: ALL WORK AS SHOWN ON THIS SHEET SHALL BE  
THE RESPONSIBILITY OF THE SELECTED SITE  
CONTRACTOR AND ALL COSTS SHALL BE  
INCLUDED IN RESPECTIVE BASE BID ITEMS**

**MATCH LINE (SHEET 7)**

**NOTE: ALL WORK AS SHOWN ON THIS SHEET SHALL BE THE RESPONSIBILITY OF THE SELECTED SITE CONTRACTOR AND ALL COSTS SHALL BE INCLUDED IN RESPECTIVE BASE BID ITEMS**

**MATCH LINE (SHEET 7)**

**SECTION A-A**

SEE SECTION A-A ON DETAIL SHEET

ONE STORY FRAME BUILDING (HANGER)

ONE STORY METAL-SIDED BUILDING (HANGER)

ONE STORY OPEN-WALLED SIDE HANGER BUILDING

CONCRETE PAD FOR AIRCRAFT PARKING

ROOF CANOPY

CB TOP GRATE 190.57  
INV. 8'CPP S. 188.47  
INV. 8'VCP S. 188.57  
INV. 6'VCP N. 188.47

CB TOP GRATE 190.60  
INV. 8'CPP N. 188.50  
INV. 6'VCP N. 188.60  
INV. 8'CPP E. 188.50

FF ELEV 191.03

CO 6"

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**TRUE NORTH**

**MAGNETIC NORTH**  
13°9'W (2012)

**SCALE**

**EXISTING 12" CPP**

**PROPOSED SEDIMENT BASIN (HATCHED AREA)**  
OVER-EXCAVATE THE 182 CONTOUR AS SHOWN FOR TEMPORARY SEDIMENT CONTROL. AFTER FINAL SITE STABILIZATION REMOVE/DISPOSE OF SEDIMENT, FILL/COMPACT WITH APPROVED FILL.

**EXISTING BURN TO BE REMOVED AND DISPOSED OF AS DIRECTED BY OWNER (ITEM P-152)**

**EXISTING STOCKPILE BURN**

**SEDIMENTATION BASIN CALCULATIONS:**  
AREA = 9,300 S.F.  
DEPTH = 1'  
BASIN VOLUME = 9,300 C.F.

**DRAINAGE AREA = 2.54 ACRES**  
REQ. BASIN VOLUME/ACRE = 3,600 C.F.  
REQ. BASIN VOLUME = 9,144 C.F.

**REINSTALL EXISTING END SECTION AND INSTALL NEW RIP RAP STONE**  
INV. = 184.56

**PROPOSED MEDIUM RIPRAP STONE AT FOREBAY SPILLWAY. TOP OF STONE ELEVATION = 184'**

**PROPOSED GRADING AND MODIFICATIONS TO EXISTING POND**

**PROPOSED POND**  
200'

**EXISTING POND**  
124'

**PROPOSED OUTLET CONTROL STRUCTURE**  
TOP OF GRATE = 184.75  
W. (3") INV. = 183.00  
E. (12") INV. = 183.00  
SEE DETAIL SHEET 9

**PROPOSED OVERFLOW WEIR WITH MEDIUM RIP RAP STONE**  
INV. = 185.75

**PROPOSED END SECTION WITH RIP RAP STONE**  
INV. = 182.75

**INSTALL STAKED HAY BALES AND TEMPORARY CHECK DAMS AS REQUIRED TO CONTROL EROSION UNTIL FINAL SITE STABILIZATION**

**STORMWATER MANAGEMENT AREA EXPANSION & OUTLET STRUCTURE REPLACEMENT (SEE GENERAL PLAN FOR LOCATION ON SITE)**

**SCANNED**

**1 INCHES**

## 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:



**Client:**  
**South Albany  
Airport Corporation**  
6 Old School Road  
Selkirk, NY 12158  
(518) 767-9189

# Passero Associates

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

---

**Revisions**

---

Ref.	Date	By	Description
1	5/16/14	M.N.	REVISIONS PER TOWN COMMENTS AND SWPPP DEVELOPMENT
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## Grading and Drainage Plan

Relocate/Improve Fuel Farm  
Establish Heliport/Pave Apron

# South Albany Airport

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

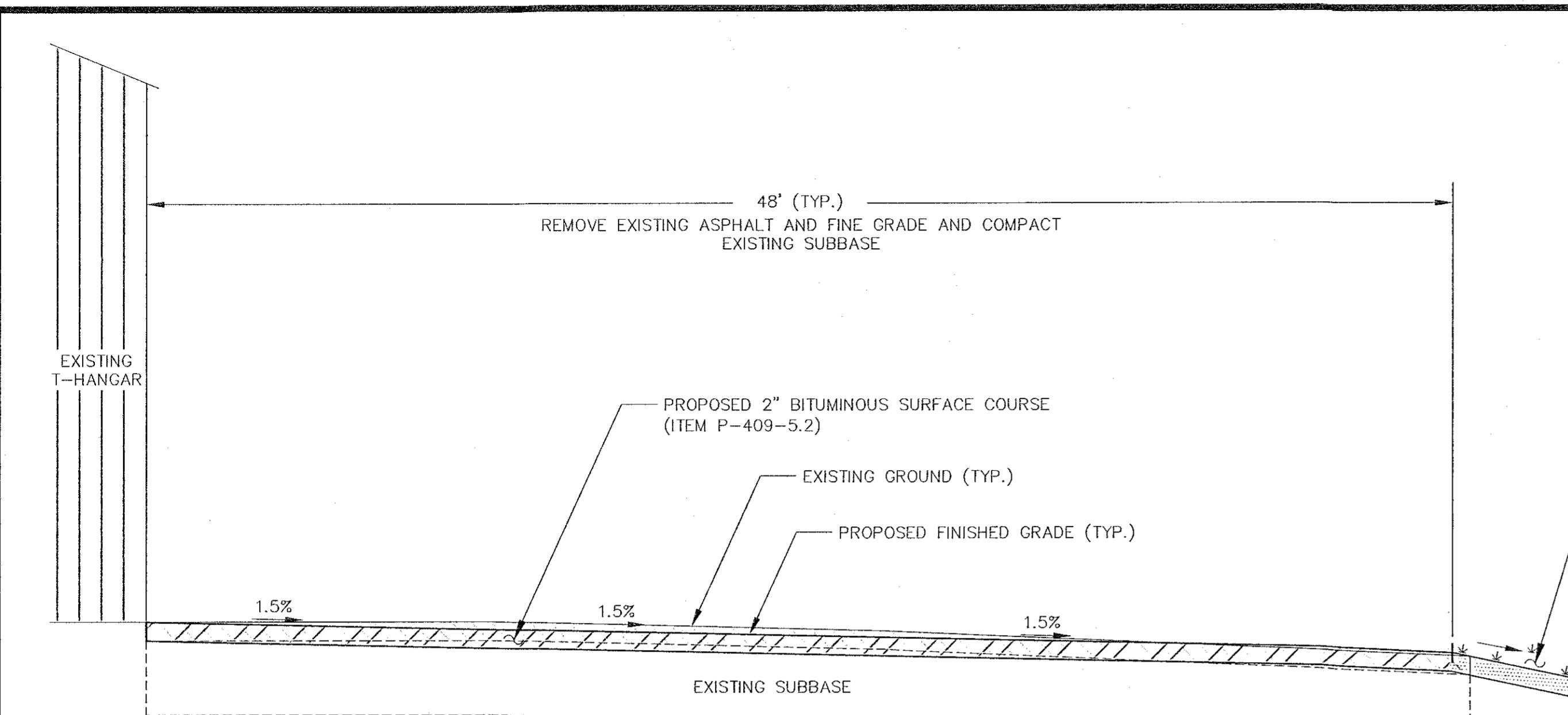
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Drawing No. 8

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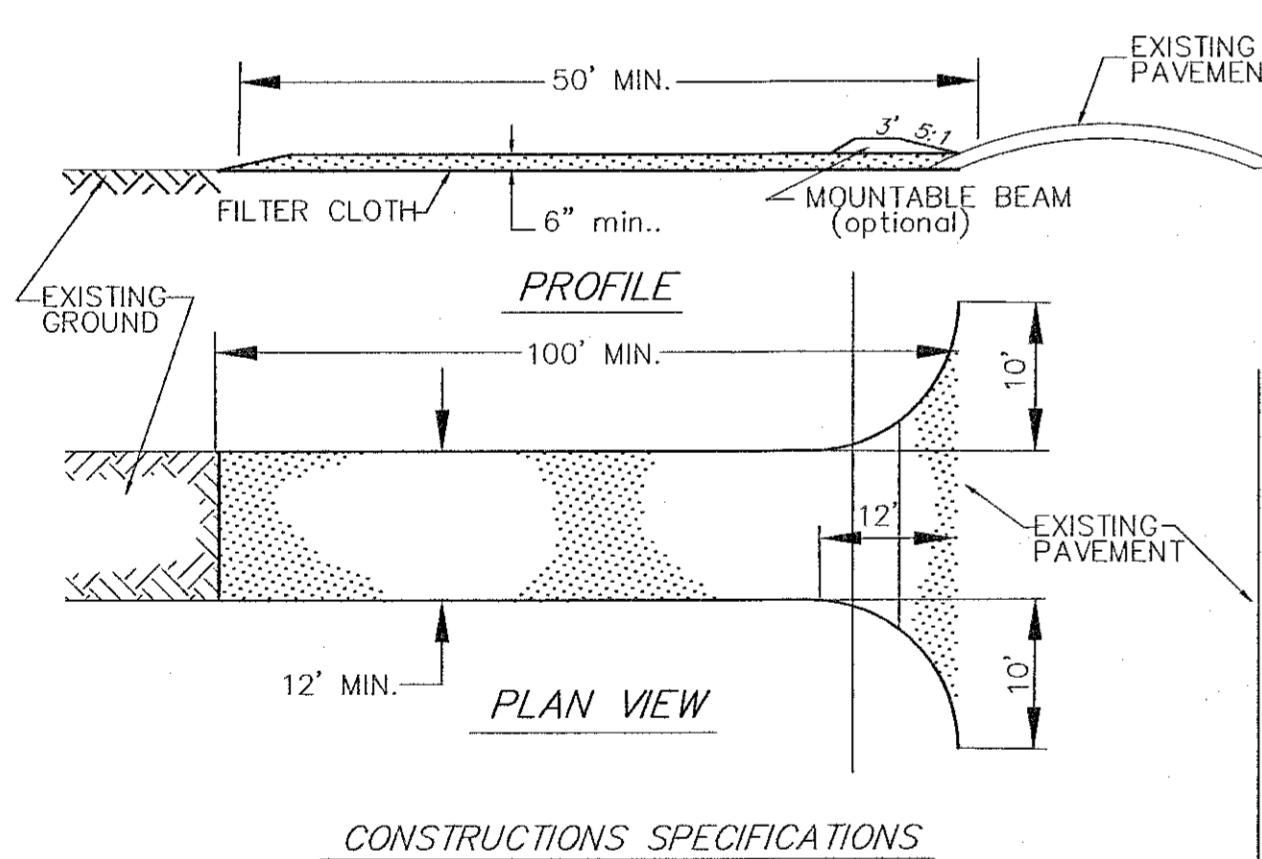
Date: January, 2015

11. *What is the name of the author of the book you are reading?*



ADD ALTERNATE NO. 1  
PAVEMENT SECTION A-A

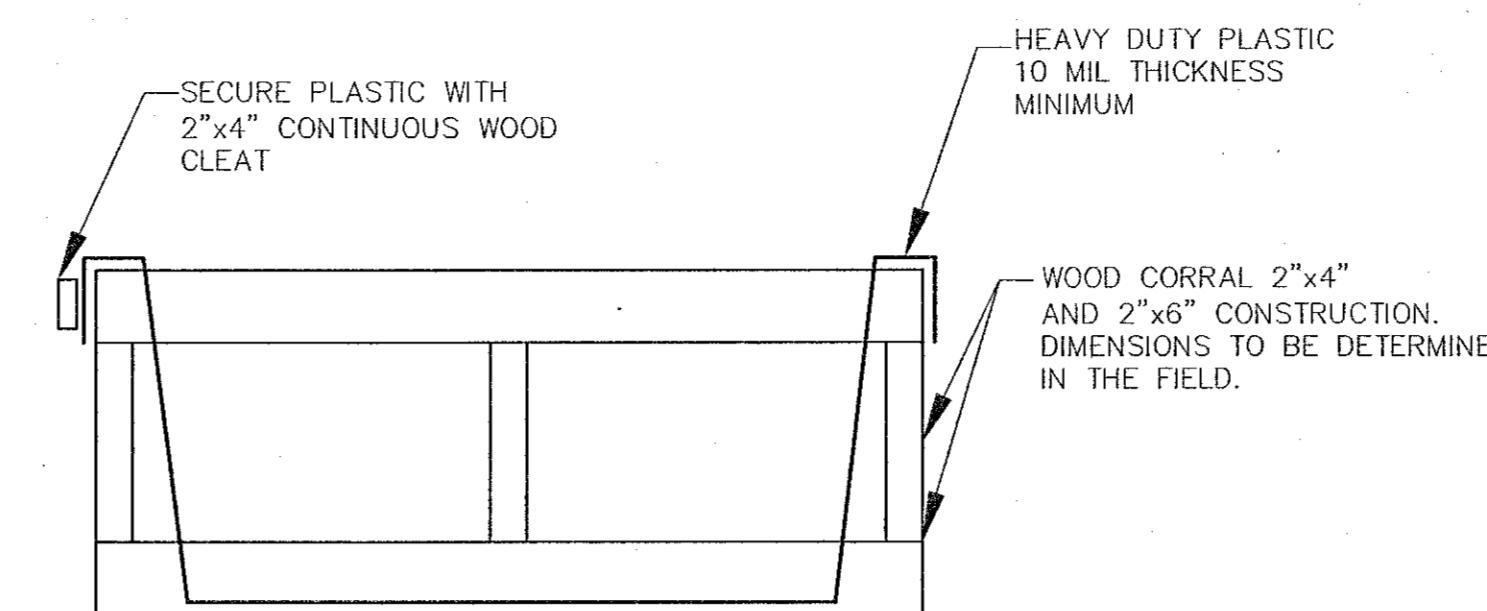
N.T.S.



- STONE SIZE--USE 2" STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT
- LENGTH--AS REQUIRED, BUT NOT LESS THAN 50 FEET (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY)
- THICKNESS--NOT LESS THAN SIX (6) INCHES
- SURFACE WATER--ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IMPRACTICAL, A MOUNTABLE BERM WITH 3:1 SLOPES WILL BE PERMITTED.
- MAINTENANCE--THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ON TO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
- WASHING--WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHTS-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
- PERIODIC INSPECTION AS NEEDED TO ENSURE NO TRACKING ONTO THE STATE HIGHWAY.

STABILIZED CONSTRUCTION ENTRANCE DETAIL

N.T.S.  
(ITEM P-156)



CONCRETE WASHOUT STATION

N.T.S.  
(ITEM P-156)

PROPOSED 3" TOPSOIL (ITEM T-905), SEEDING AND MULCHING (BY OTHERS)

GRADING NOTES:

- THE CONTRACTOR SHALL STRIP THE TOPSOIL AND REMOVE ANY UNSUITABLE SOILS, WITHIN THE PROPOSED GRADING LIMITS PRIOR TO PLACEMENT OF FILL MATERIAL.
- ALL CUT & FILL AREAS SHALL BE COMPACTION TO A MINIMUM OF 95% OF MAXIMUM DENSITY OF STANDARD PROCTOR TEST AT OPTIMUM MOISTURE CONTENT.
- THE COMPACTION TESTS WILL BE CONDUCTED BY A LICENSED TESTING LABORATORY AND RESULTS SUBMITTED TO DESIGN ENGINEER.
- SLOPES SHALL NOT EXCEED 1' VERTICAL TO 3' HORIZONTAL.

CONSTRUCTION SEQUENCE FOR GRADING AND EROSION CONTROL:

- INSTALL SILT FENCES, STABILIZED CONSTRUCTION ENTRANCE AND OTHER EROSION CONTROL MEASURES AS SHOWN ON THE PLANS
- PROTECT VEGETATION TO REMAIN
- CONSTRUCT STORMWATER MANAGEMENT AREA AS SHOWN ON THE PLANS
- CLEAR AND GRUB SITE, STRIP AND STOCKPILE TOPSOIL AS NECESSARY.
- IMPORT NECESSARY FILL MATERIAL AND CONDUCT MASS EARTH MOVING ACTIVITIES
- INSTALL UTILITIES INCLUDING STORM SEWERS AND STORMWATER MANAGEMENT AREA.
- BOX OUT PARKING LOT AND ROADWAY AREAS AND PREPARE FOR MATERIAL INSTALLATION.
- INSTALL ROAD SUBBASE AND CONTINUE MONITORING OF EROSION CONTROL
- STABILIZE DISTURBED AREAS AND STOCKPILES WITHIN 14 DAYS OF LAST CONSTRUCTION ACTIVITY IN ALL AREAS.
- FINAL GRADING, SEEDING, AND MULCHING OF ALL DISTURBED AREAS. SLOPES SHALL NOT EXCEED 1' VERTICAL TO 3' HORIZONTAL.
- WHEN ALL WORK AREAS ARE COMPLETE AND THE ENTIRE AREAS ARE STABILIZED, REMOVE THE EROSION CONTROL MEASURES AFTER APPROVED BY A QUALIFIED PROFESSIONAL.

SEEDING NOTE:

ALL AREAS OF THE PROJECT SITE THAT INVOLVE SOIL DISTURBING ACTIVITIES ARE REQUIRED TO PROVIDE THE FOLLOWING SEED MIXTURES DURING CONSTRUCTION:

ADD 6" TOPSOIL & TEMPORARY SEEDING: RYEGRASS (ANNUAL OR PERENNIAL) @ 30LBS. PER ACRE OR 0.7 LBS. PER 1000 SQUARE FEET.

ADD 6" TOPSOIL & PERMANENT SEEDING:  
65% KENTUCKY BLUEGRASS BLEND @ 85LBS. PER ACRES OR  
2.0-2.6 LBS. PER 1000 SQUARE FEET  
20% PERENNIAL RYEGRASS @ 26-35 LBS. PER ACRE OR  
0.6-0.8 LBS. PER 1000 SQUARE FEET  
15% FINE FESCUE @ 19-26 LBS. PER ACRE OR  
0.4-0.6 LBS. PER 1000 SQUARE FEET

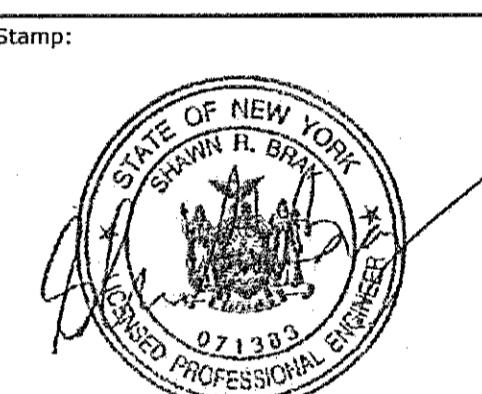
FOR ALL SEEDING & STABILIZATION MEASURES IT IS THE RESPONSIBILITY OF THE OWNER & DEVELOPER TO ENSURE THAT FINAL STABILIZATION OCCURS AS REQUIRED BY THE NYSDEC.

AREAS WHERE CONSTRUCTION ACTIVITY TEMPORARILY CEASES FOR MORE THAN 21 DAYS WILL BE STABILIZED WITH A TEMPORARY SEED AND MULCH WITHIN 14 DAYS OF THE LAST DISTURBANCE. ONCE CONSTRUCTION ACTIVITY CEASES PERMANENTLY IN AN AREA, THAT AREA WILL BE STABILIZED WITH PERMANENT SEED AND MULCH. AFTER THE ENTIRE SITE IS STABILIZED, THE ACCUMULATED SEDIMENT WILL BE REMOVED FROM THE SEDIMENT BASIN(S).

\*ALL SEED MIXTURES USED SHALL FOLLOW THE RECOMMENDATIONS OF THE NYS SEDIMENT AND EROSION CONTROL HANDBOOK.

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) 5-2-A-1 for date and signature.



Client:  
**South Albany**  
**Airport Corporation**  
6 Old School Road  
Selkirk, NY 12158  
(518) 767-9198

**Passero Associates**  
112 State Street, Suite 1000  
Albany, NY 12207  
(518) 934-8804  
Fax: (518) 934-8803

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 FOR TOWN COMMENTS AND SWPPP DEVELOPMENT
2	7/1/14	M.N.	SWPPP REVISIONS
3	9/9/14	M.N.	REVISED PER DOC COMMENTS

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO THIS DRAWING ARE IN VIOLATION OF STATE EDUCATION LAW ARTICLE 14 SECTION 209 AND ARTICLE 14-7 SECTION 730. THESE PLANS ARE COPYRIGHT PROTECTED ©

Detail Sheet

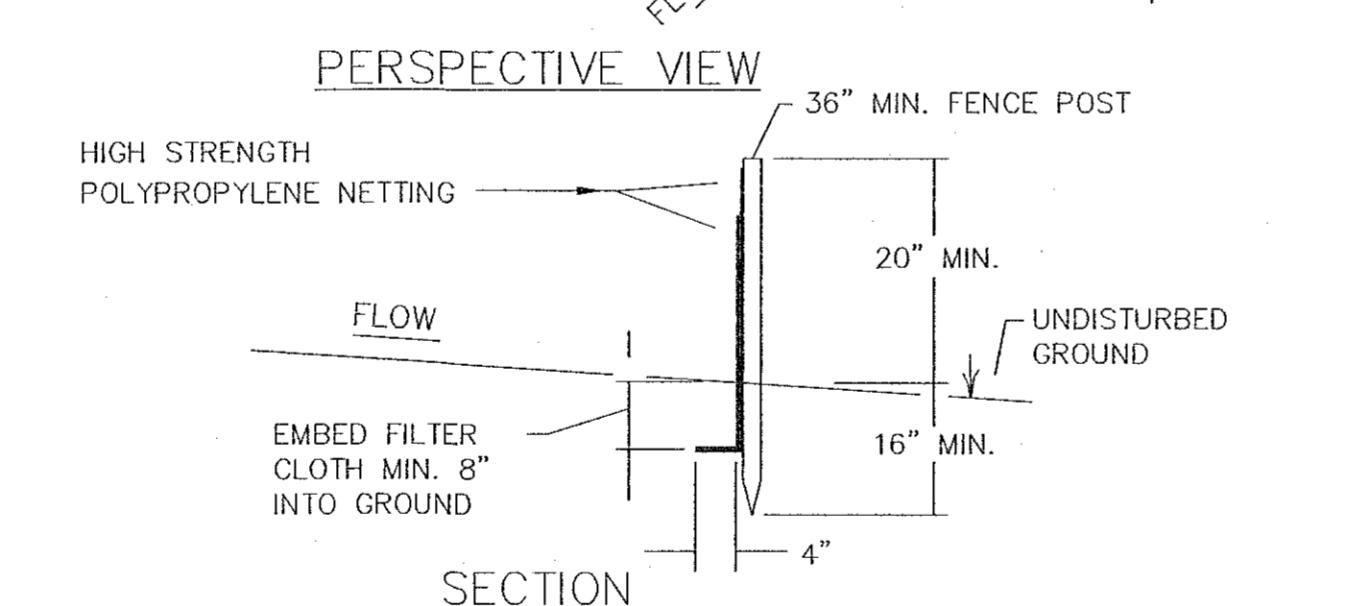
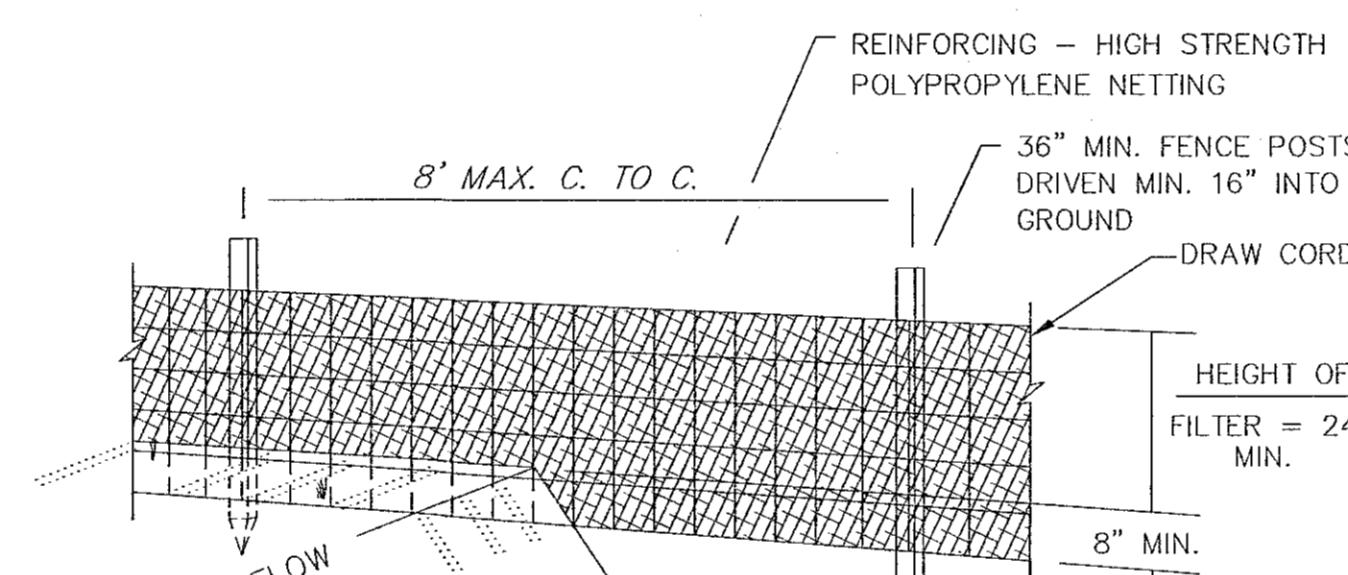
Relocate/Improve Fuel Farm  
Establish Heliport/Pave Apron

**South Albany**  
**Airport**

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

Project No. 25000247.0010  
Drawing No. 9

Date	January, 2015
Drawing No.	9



CONSTRUCTION NOTES FOR FABRICATED SILT FENCE

- SILT FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH TIES OR STAPLES.
- FILTER CLOTH TO BE FASTENED SECURELY TO POLYPROPYLENE NETTING WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION. NETTING MADE BE INCORPORATED INTO FILTER CLOTH.
- WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY SIX INCHES AND FOLDED.
- MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.

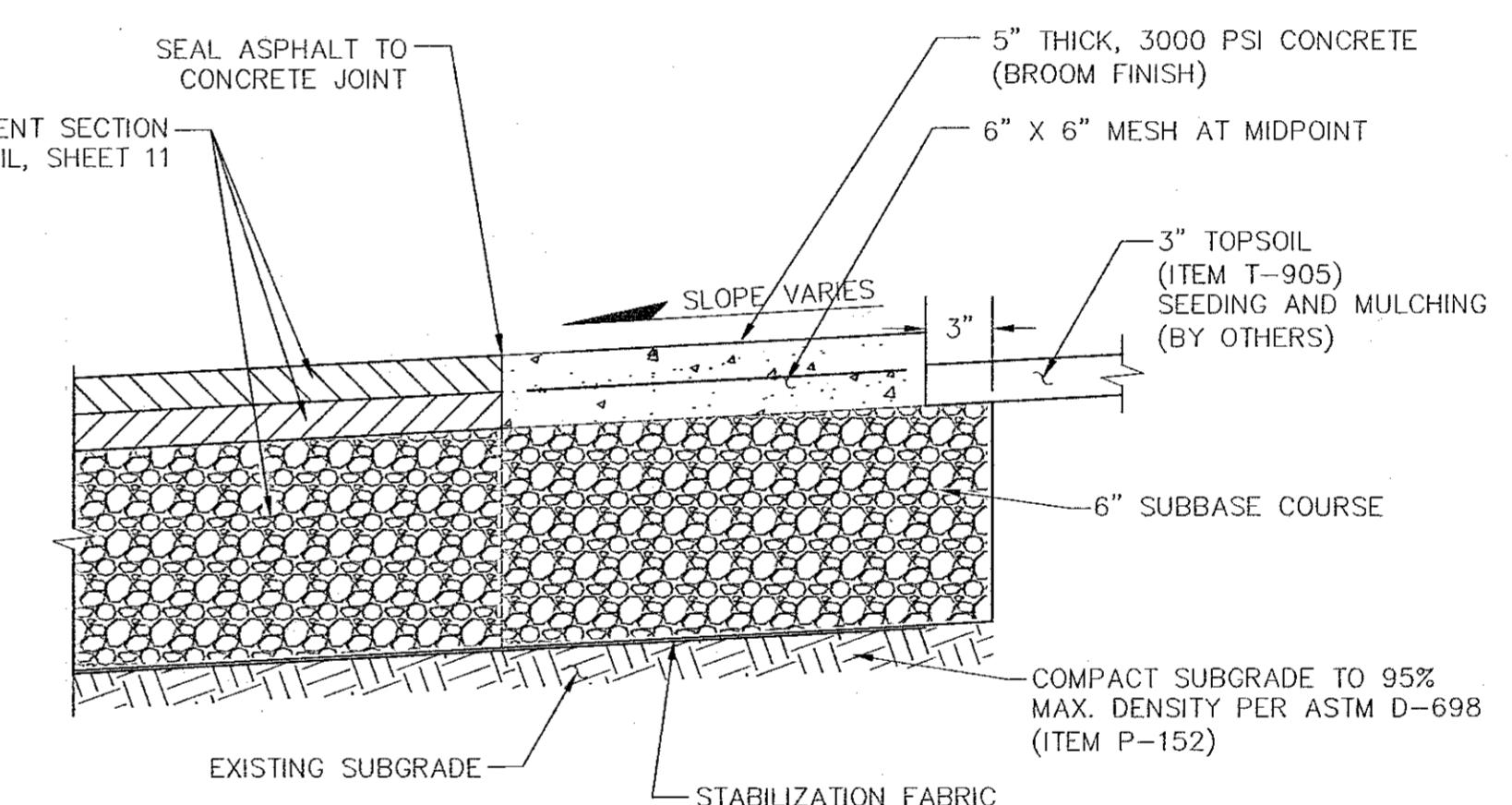
POSTS: STEEL EITHER T OR U TYPE OR 2" HARDWOOD.

FENCE: HIGH STRENGTH POLYPROPYLENE NETTING

FILTER CLOTH: MIRAFI 100X, STABILINKA T140N OR APPROVED EQUAL.

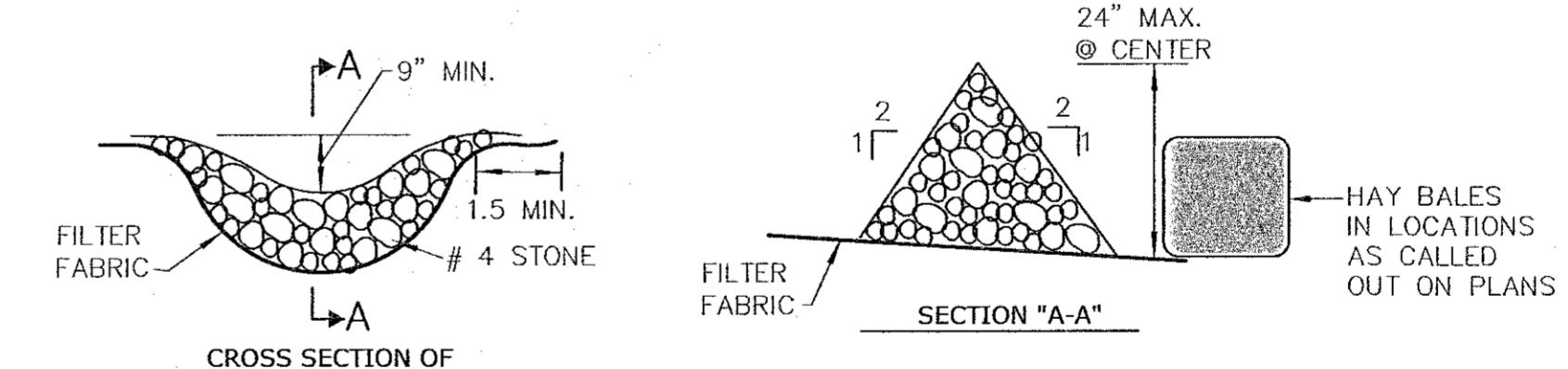
PREFABRICATED UNIT: GEOFAB, ENVIROFENCE, OR APPROVED EQUAL.

PROPOSED PAVEMENT SECTION  
SEE DETAIL, SHEET 11



CONCRETE PAD DETAIL

N.T.S.  
(ITEMS P-501)



NOTES:

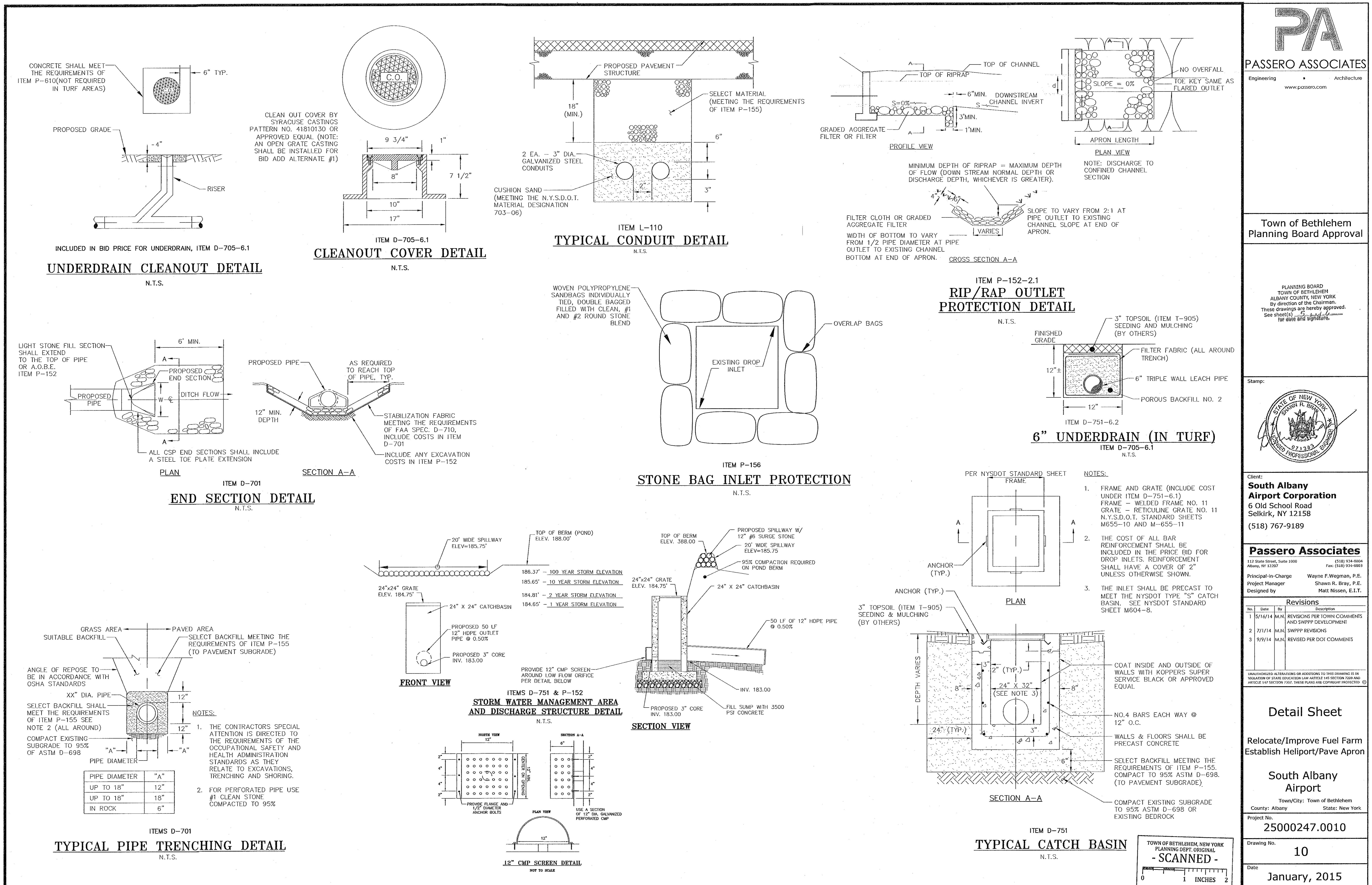
- STONE WILL BE PLACED ON A FILTER FABRIC FOUNDATION AT THE LOCATIONS SHOWN IN THE PLAN.
- EXTEND THE STONE A MIN. OF 1.5 FEET BEYOND THE CHANNEL BANKS TO PREVENT CUTTING AROUND THE DAM.
- REMOVE DAM OR WASTE STONE IN BOTTOM OF CHANNEL WHEN IS COMPLETE
- STRAW BALE SHALL BE EMBEDDED IN SOIL 4" MIN. AND SO THE BINDINGS ARE HORIZONTAL.
- BALES SHALL BE SECURELY ANCHORED IN PLACE BY EITHER TWO STAKES DRIVEN THROUGH THE BALES. FIRST STAKE IN EACH BALE SHALL BE DRIVEN TOWARD THE PREVIOUSLY LAID BALE AT AN ANGLE TO FORCE THE BALES TOGETHER. DRIVE STAKES FLUSH WITH BALE.

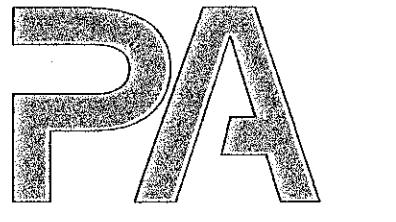
TEMPORARY CHECK DAM DETAIL

N.T.S.  
(ITEM P-156)

TOWN OF BETHLEHEM, NEW YORK
PLANNING DEPT. ORIGINAL
- SCANNED -

0 1 INCHES 2



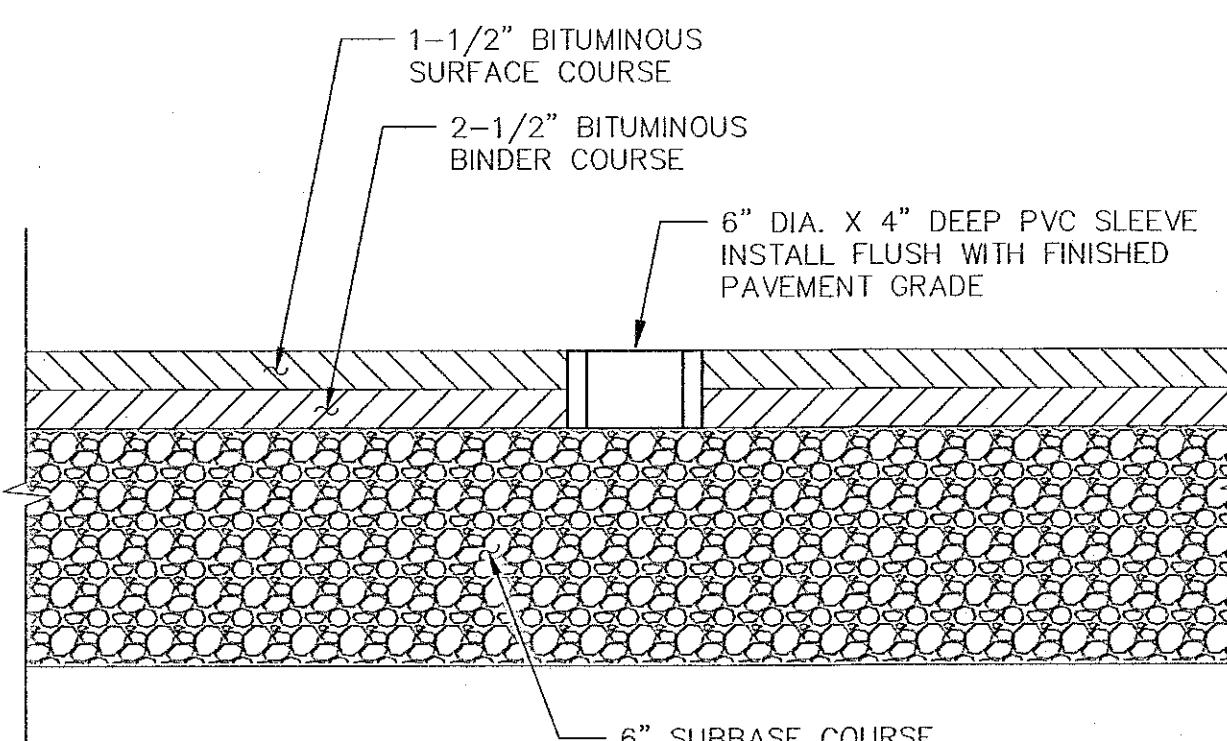


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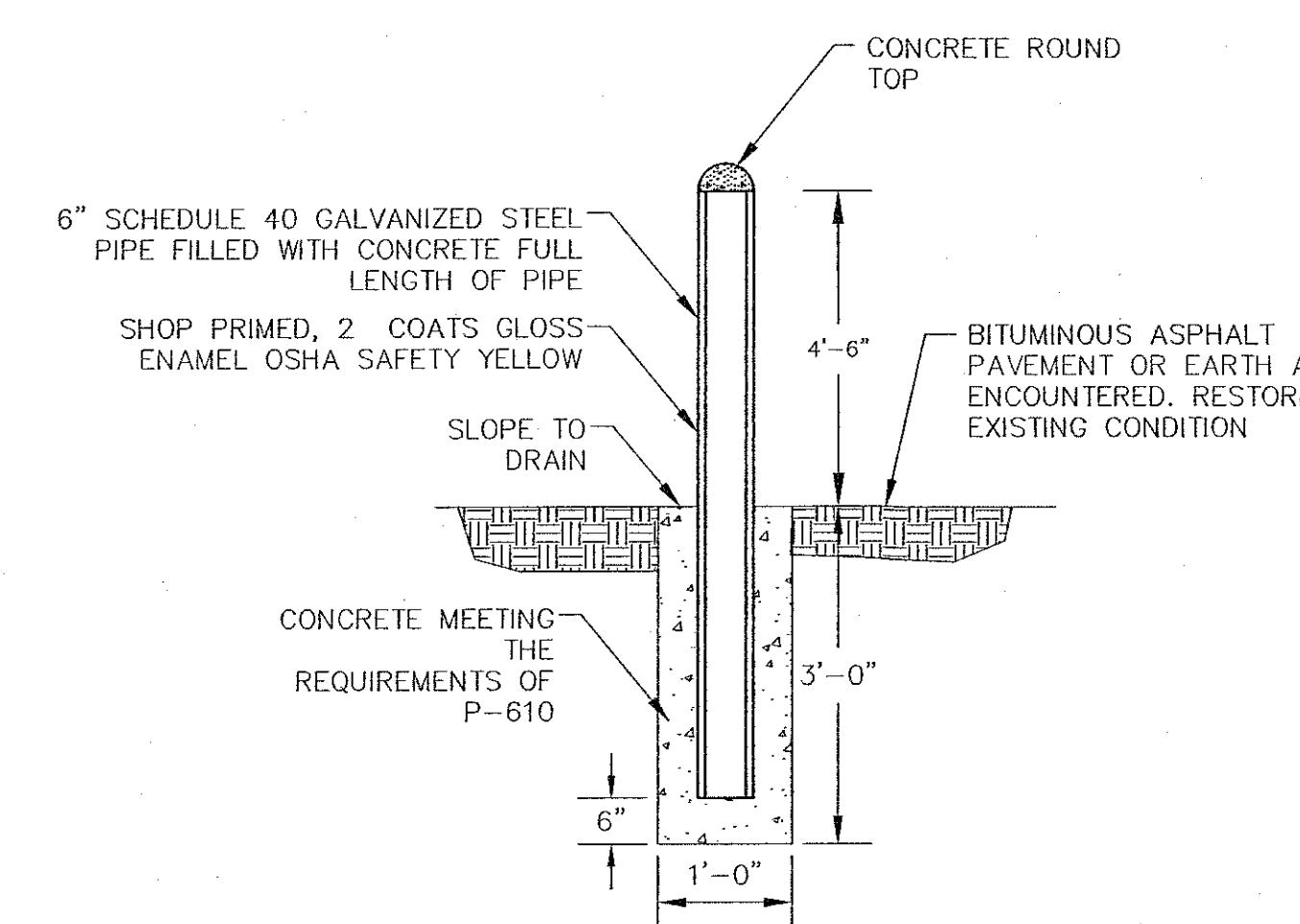
NOTE:

1. THE OWNER WILL INSTALL THE FUTURE TIE-DOWN ANCHOR.



**TIE-DOWN SLEEVE DETAIL**

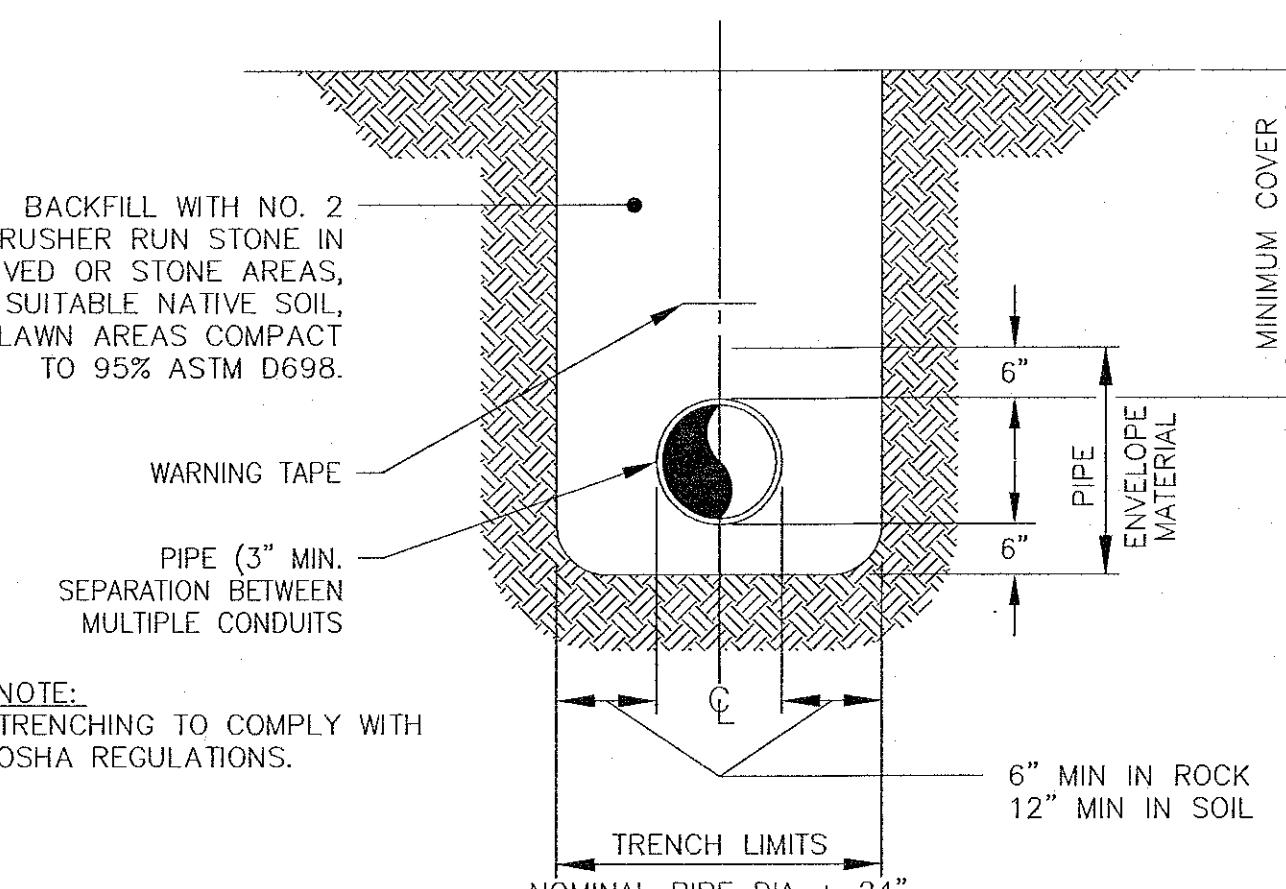
N.T.S.



**BOLLARD**

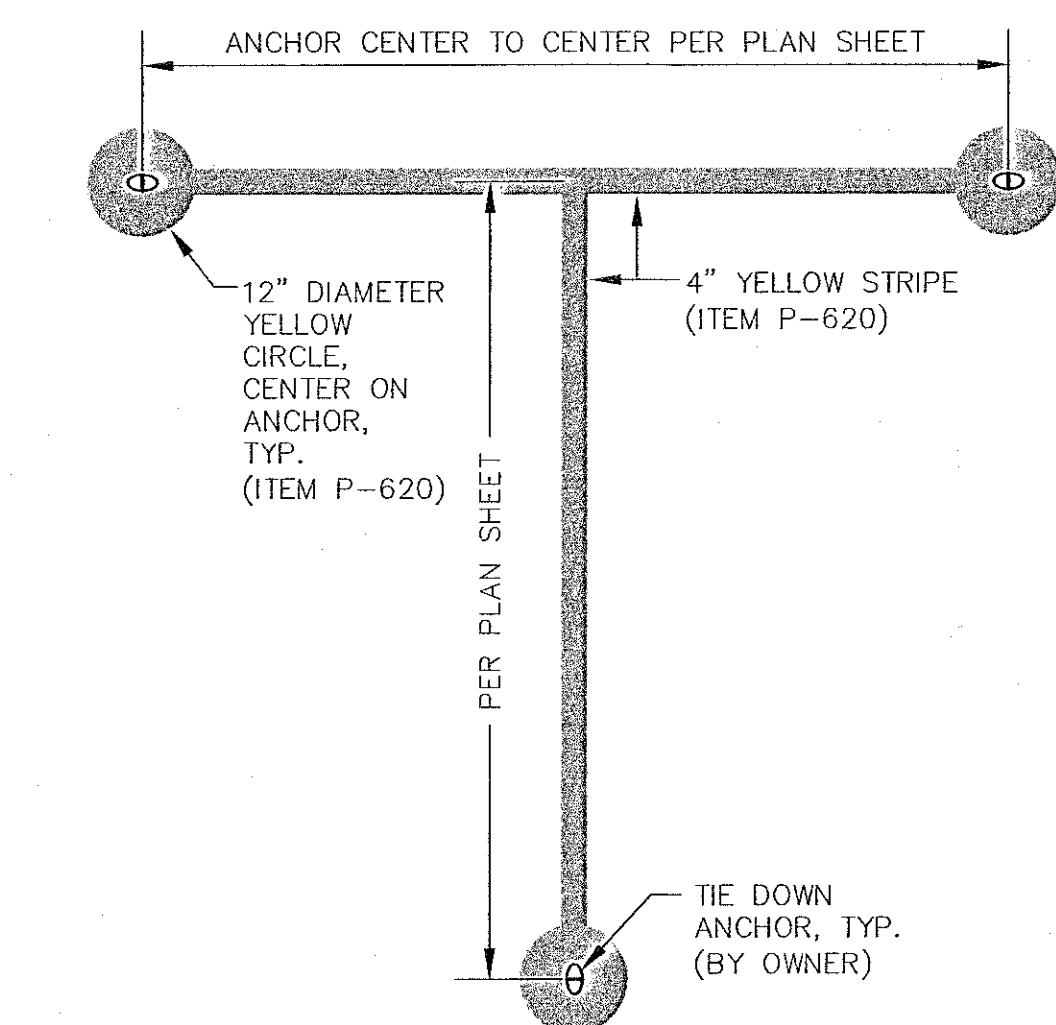
N.T.S.

UTILITY	PIPE MATERIAL	PIPE ENVELOPE MATERIAL	MINIMUM COVER
ELECTRIC	4" PVC SCHEDULE 40	CLEAN EARTH, NO ROCKS OVER 2"	2' LAWN 3-6" PAVEMENT
WATER	1" PEX	SAND	4'-6"
SANITARY	4" PVC, SDR35	#1 STONE	4'-0"



**UTILITY TRENCH**

N.T.S.

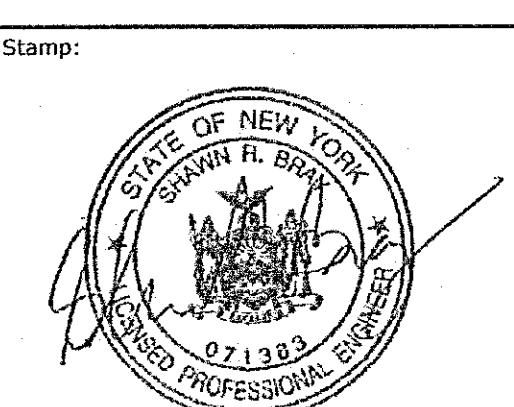


**TIE DOWN MARKING**

N.T.S.

**Town of Bethlehem  
Planning Board Approval**

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



Client:  
**South Albany  
Airport Corporation**  
6 Old School Road  
Selkirk, NY 12158  
(518) 767-9189

**Passero Associates**

112 State Street, Suite 1000  
(518) 934-8804  
Albany, NY 12207  
Fax: (518) 934-8803

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

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 FOR DOT COMMENTS

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**Detail Sheet**

Relocate/Improve Fuel Farm  
Establish Heliport/Pave Apron

**South Albany  
Airport**

Town/City: Town of Bethlehem

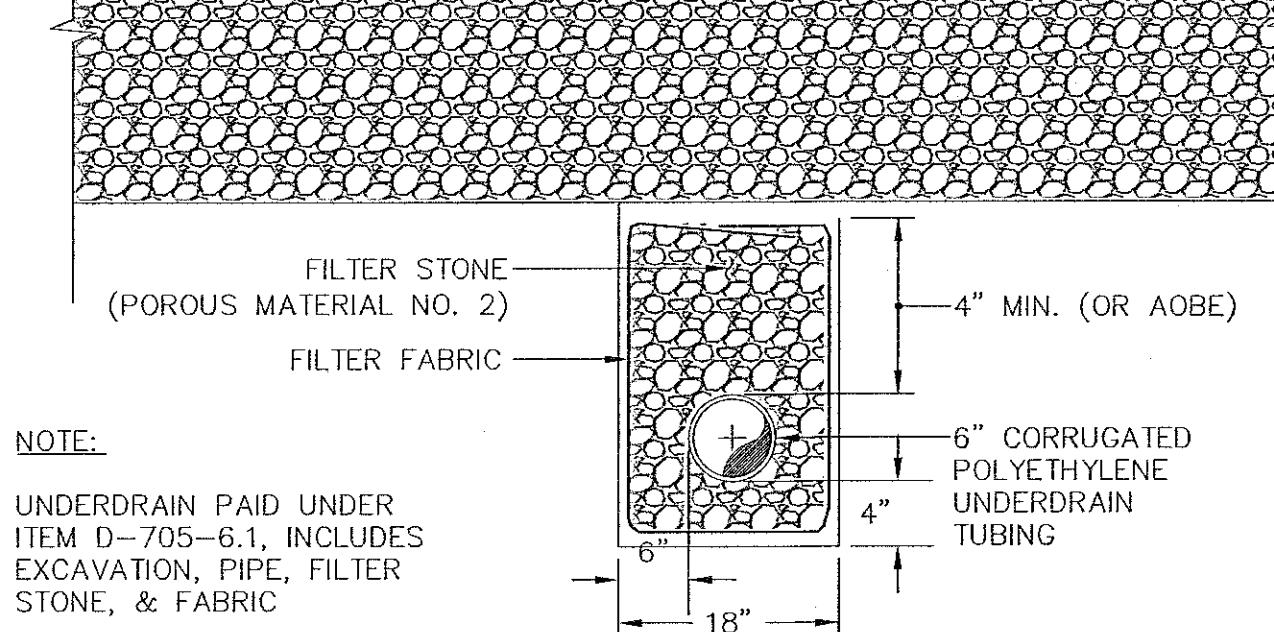
County: Albany

State: New York

Project No. 25000247.0010

Drawing No. 11

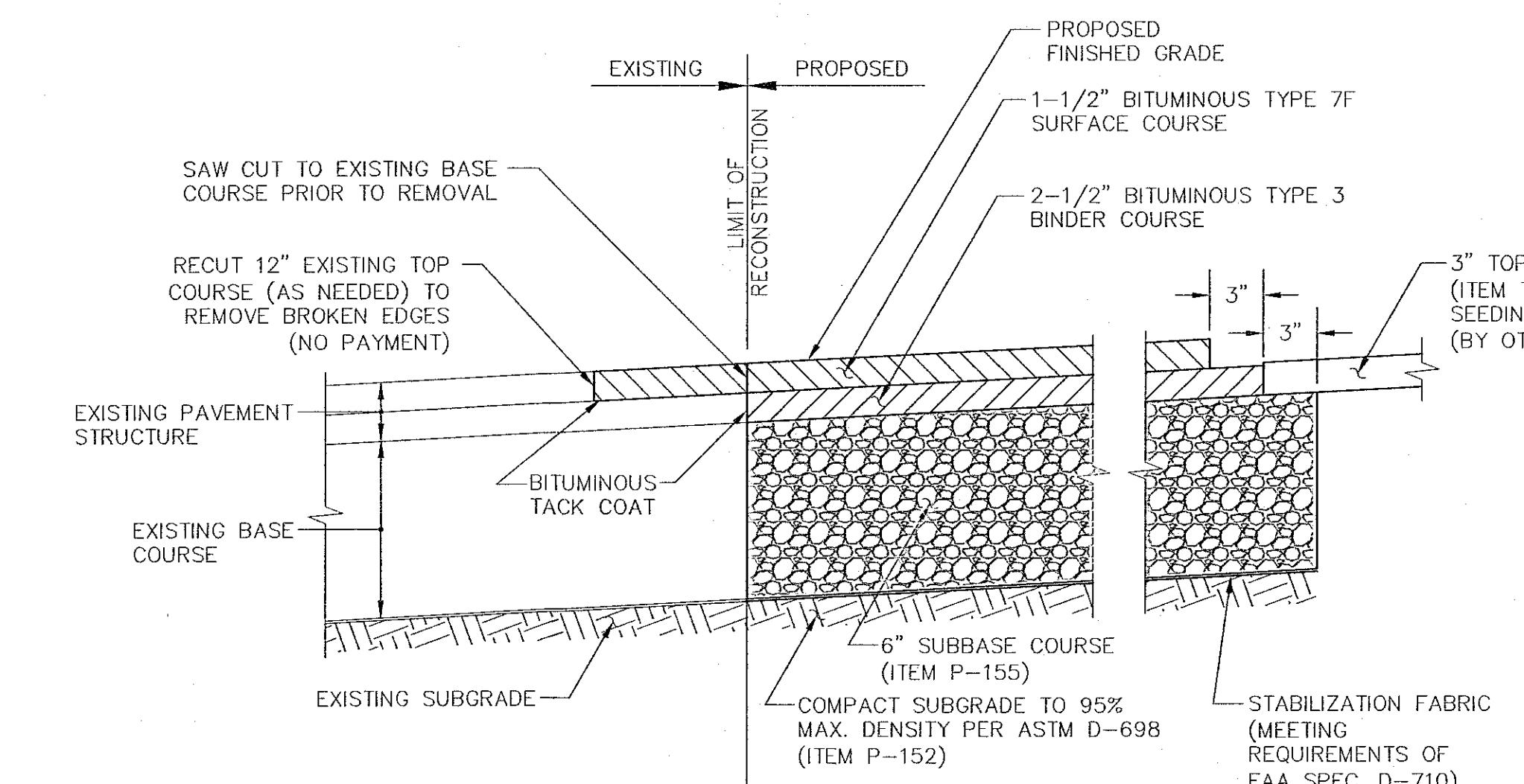
Date January, 2015



ITEM D-705

**TYPICAL UNDERDRAIN DETAIL  
(UNDER PAVEMENT)**

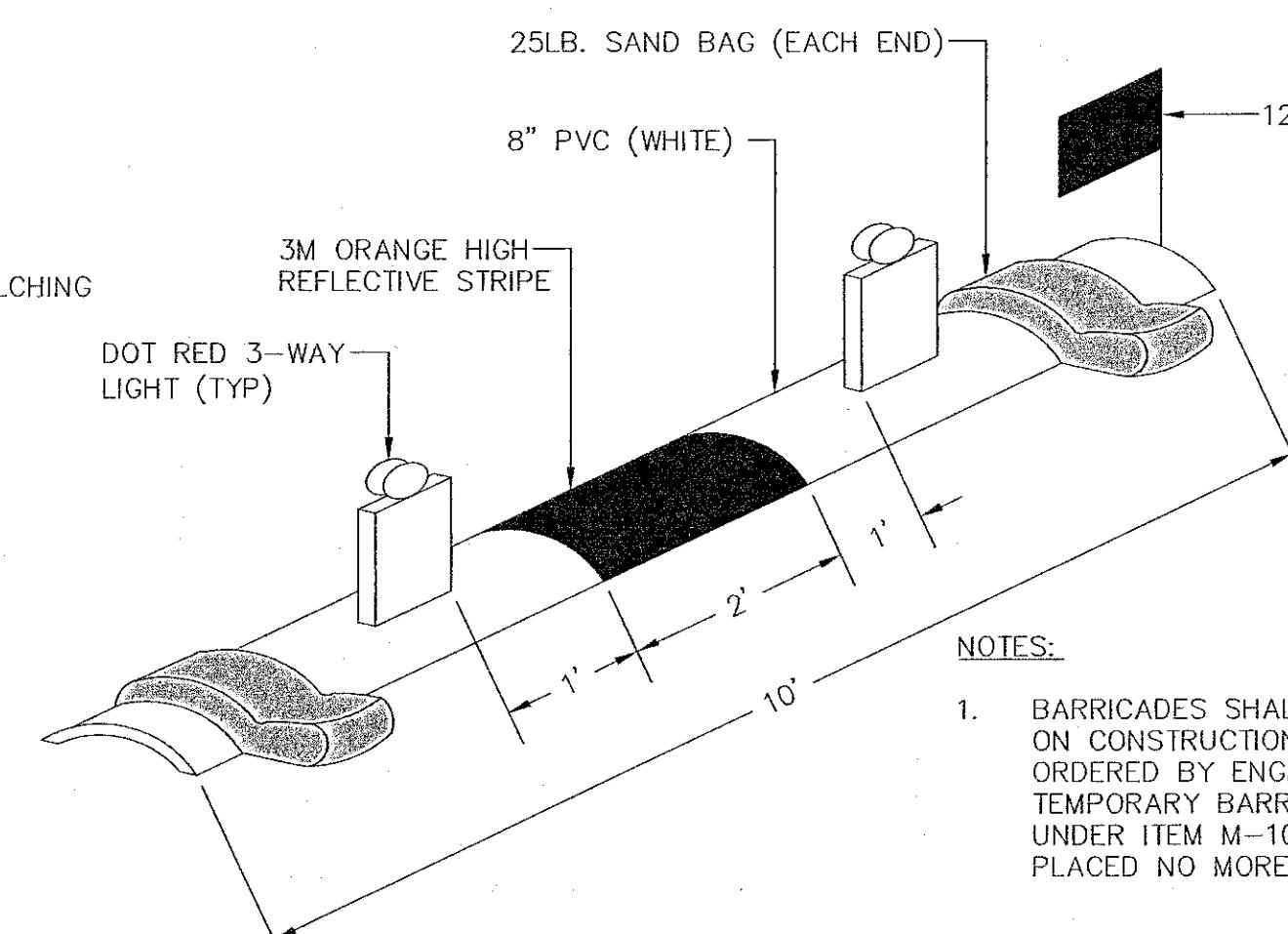
N.T.S.



ITEM P-409

**PAVEMENT SECTION DETAIL**

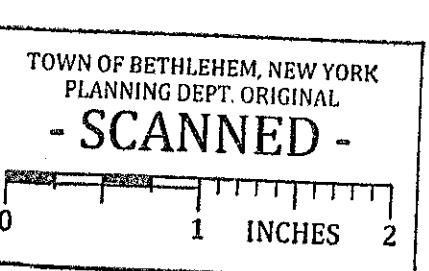
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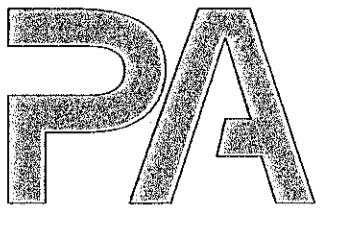
ITEM M-100

**AIRPORT LOW-PROFILE BARRICADE**

N.T.S.



0 1 INCHES 2



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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) 5-163-6.1  
for date and signature.

Stamp:



Client:  
**South Albany  
Airport Corporation**  
6 Old School Road  
Selkirk, NY 12158  
(518) 767-9189

**Passero Associates**  
112 State Street, Suite 1000  
Albany, NY 12207  
(518) 934-8804  
Fax: (518) 934-8803

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

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 DOI COMMENTS

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### Detail Sheet

Relocate/Improve Fuel Farm  
Establish Heliport/Pave Apron

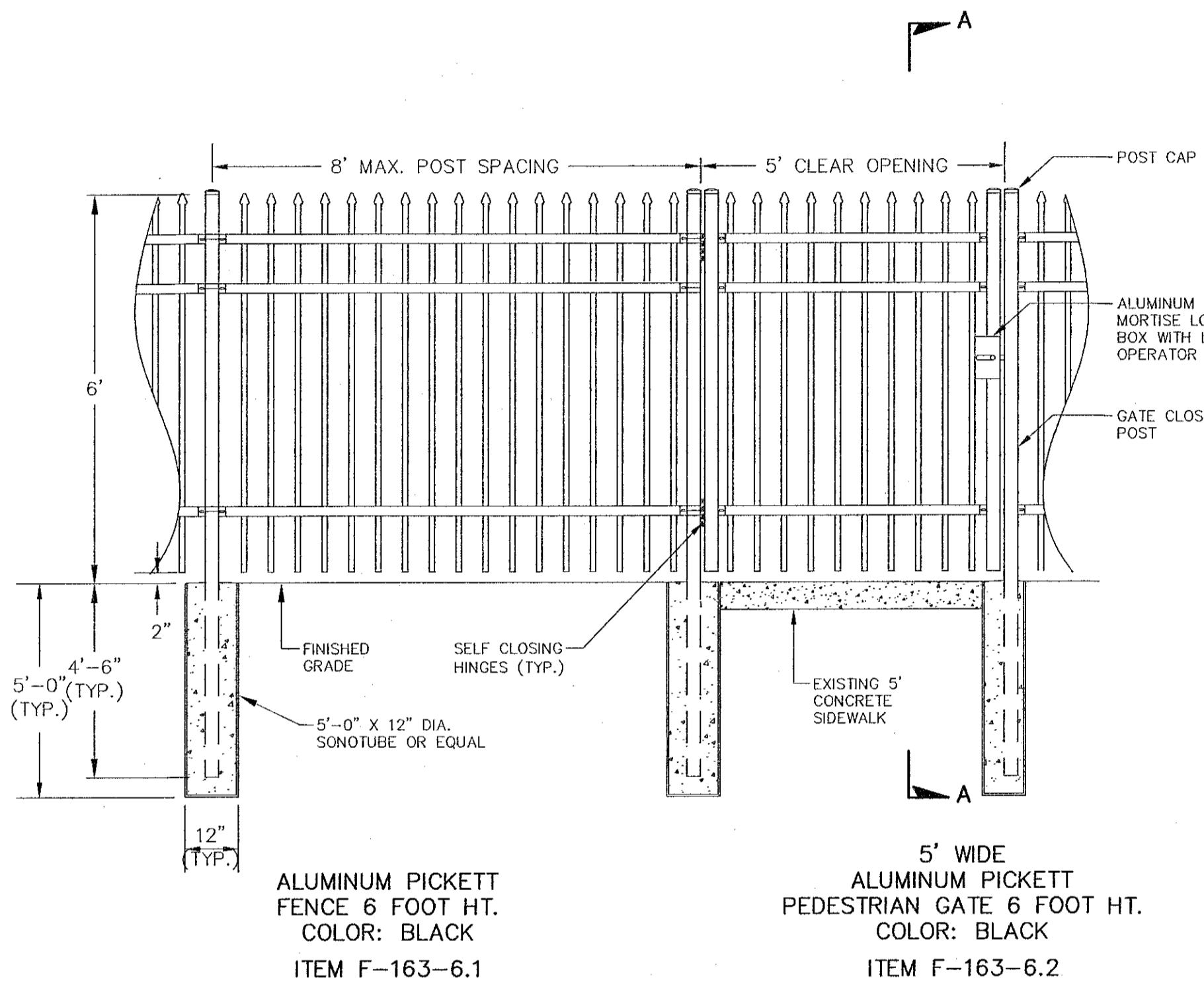
**South Albany  
Airport**

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

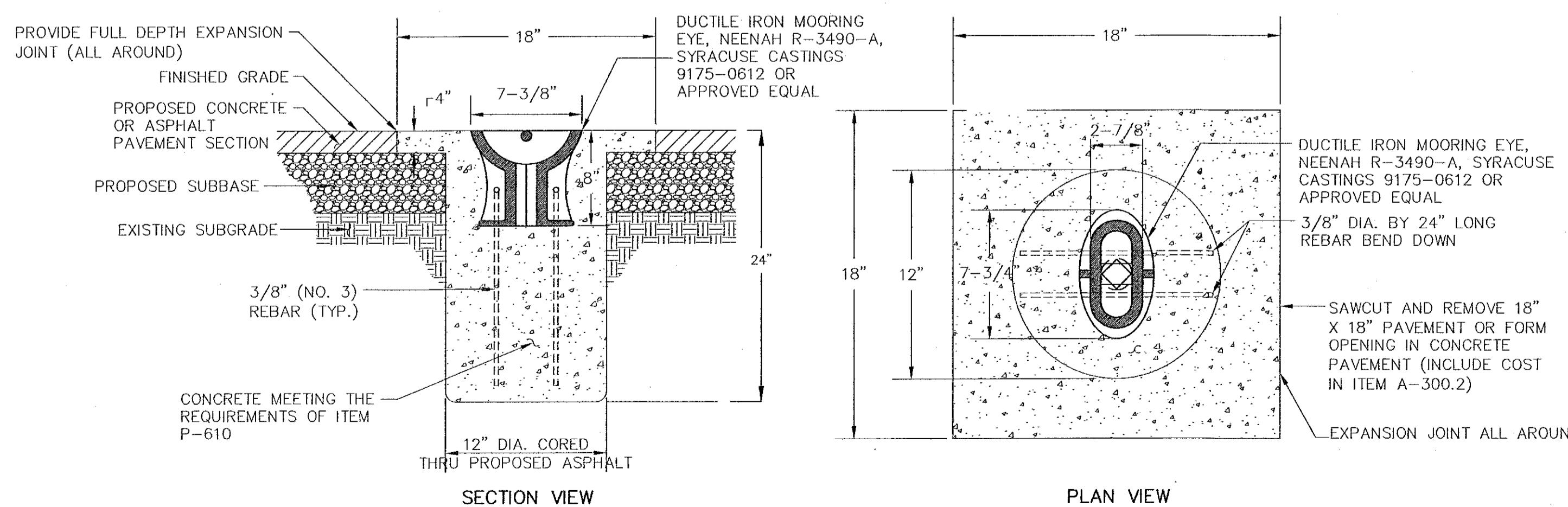
Project No. 25000247.0010

Drawing No. 12

Date January, 2015

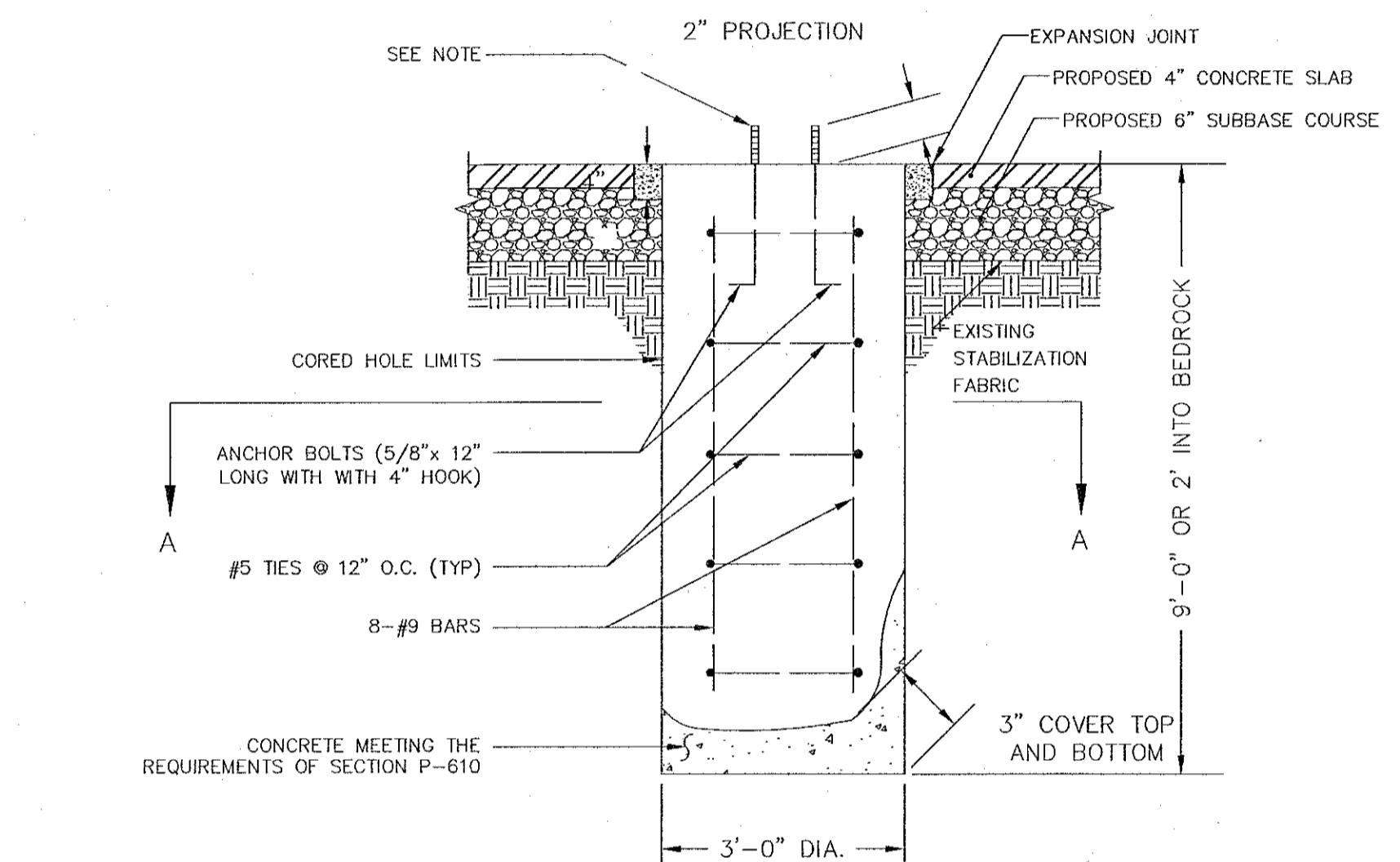


**TERMINAL AREA FENCE**



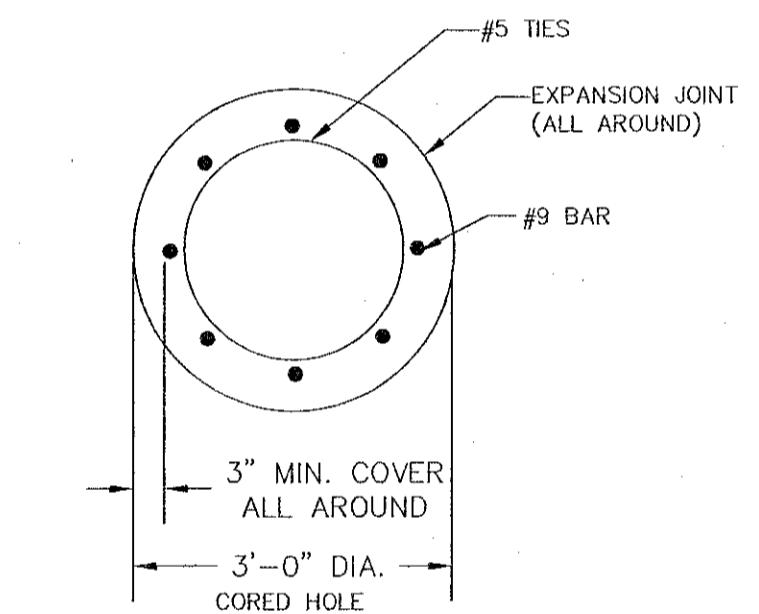
**TIE-DOWN ANCHOR DETAIL**

N.T.S.



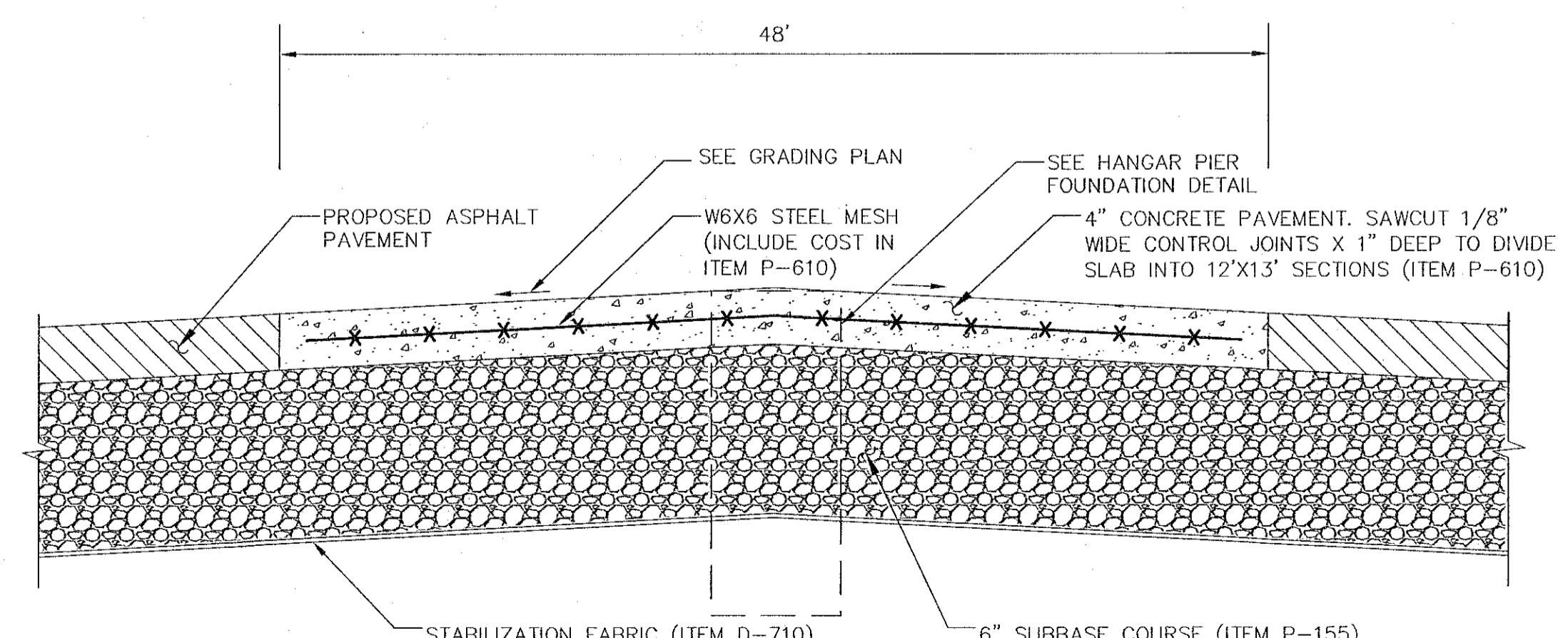
**TYPICAL HANGAR PIER FOUNDATION**

N.T.S.



**SECTION A-A**

N.T.S.



**CONCRETE PAVEMENT DETAIL**

N.T.S.

