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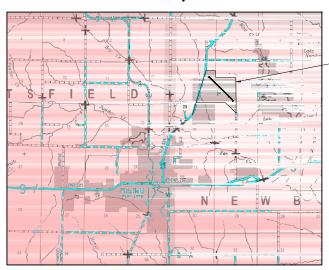
LOCATION OF AIRPORT INDICATED THUS: -

CONSTRUCTION PLANS FOR PITTSFIELD PENSTONE MUNICIPAL AIRPORT PITTSFIELD, PIKE COUNTY, ILLINOIS

REHABILITATE ALL 3 TAXIWAYS, NORTH PORTION OF MAIN & FBO APRON

ILLINOIS PROJECT NO. PPQ-4252 SBG PROJECT NO. 3-17-SBGP-80/88/91/95/97/99

MAY 12, 2017



VICINITY MAP

PITTSFIELD PENSTONE **MUNICIPAL AIRPORT**





ENGINEER'S SEAL

CITY OF PITTSFIELD, ILLINOIS

Hutchison Engineering, Inc.

LICS. EXP. DATE _____/1 - 30 - 17

JCW 03/13/1

AYS, NORTH PORTION FBO APRON

REHABILITATE ALL 3 TAXI MAIN APRON,

ILL PROJ. NO. PPQ-4252 SBG PROJ. NO. 3-17-SBGP-80/88/91/95/97/99



SHEET 1 OF 13

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| APPROVED | JMO | 05/15/17 |
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GENERAL NOTES

- 1. OPEN PAVING JOINTS AND/OR CRACKS IN THE EXISTING SURFACE OF THE PAVEMENT OVER %" IN WIDTH SHALL BE DESIGNATED BY THE PROJECT ENGINEER IN THE FIELD TO BE REPAIRED PRIOR TO PLACING THE BITUMINOUS SURFACE COURSE. THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE SPECIAL PROVISIONS FOR BITUMINOUS CRACK SEALING OR SURFACE COURSE CRACK REPAIR AT THE LOCATIONS SHOWN IN THESE PLANS.
- 2. THE AS BID QUANTITIES FOR CRACK SEALING HAVE BEEN ESTIMATED BY MEASURING CRACK SEALING IN SELECTED REPRESENTATIVE LOCATIONS ON THE PAVEMENT. THESE QUANTITIES MAY BE INCREASED OR REDUCED AT THE TIME OF CONSTRUCTION BASED UPON THE CRACK WORK THAT IS MARKED OUT BY THE RESIDENT ENGINEER AFTER FIELD INSPECTION OF THE PAVEMENT CRACKS.
- 3. ANY SOD WHICH HAS ENCROACHED UPON THE PAVEMENT EDGE SHALL BE REMOVED PRIOR TO THE PROPOSED BITUMINOUS SURFACE COURSE APPLICATION. THE ENTIRE PAVEMENT SURFACE SHALL BE SWEPT TO REMOVE ALL LOOSE MATERIALS BEFORE THE APPLICATION OF BITUMINOUS TACK COAT. THE COST OF THIS WORK SHALL BE INCLUDED IN THE PRICE BID FOR BITUMINOUS
- 4. A BITUMINOUS TACK COAT SHALL BE APPLIED TO THE EXISTING PAVEMENT PRIOR TO PLACING THE BITUMINOUS SURFACE COURSE. THE APPLICATION RATE SHOWN ON THE TYPICAL SECTION WAS USED TO CALCULATE THE PLAN QUANTITY. THE EXACT AMOUNT OF BITUMINOUS TACK COAT TO BE USED SHALL BE DETERMINED BY THE PROJECT ENGINEER AT THE TIME OF CONSTRUCTION.
- 5. THE BITUMINOUS SURFACE COURSE SHALL BE ABUTTED TO THE EXISTING PAVEMENT AT INTERSECTING PAVEMENTS AS SHOWN ON THE BITUMINOUS BUTT JOINT DETAIL. THE EXISTING PAVEMENT CONFINED WITHIN THE BITUMINOUS PAVEMENT MILLING AREA WILL BE REMOVED IN ACCORDANCE WITH THE DETAIL FROM 0 TO 11/2" DEPTH AT THE BUTT JOINT LOCATION. FILLING OF THE MILLED AREA WILL BE MADE USING BITUMINOUS SURFACE COURSE MIX AND WILL BE PAID FOR PER TON FOR BITUMINOUS SURFACE COURSE - METHOD I, SUPERPAVE.
- 6. AT LOCATIONS WHERE THE EDGE DROP FROM THE FINISHED SURFACE TO THE EXISTING TURF SHOULDER EXCEEDS 11/2", THE SHOULDER SHALL BE ADJUSTED AS SHOWN IN THE TYPICAL SECTION USING SOIL OBTAINED OFF SITE THAT IS FREE OF HEAVY SOD, DECAYED VEGETATIVE MATTER, RUBBISH, AGGREGATE AND OTHER UNSUITABLE MATERIAL. THE SHOULDER ADJUSTMENT AREAS SHALL BE FERTILIZED AND SEEDED AND THE COST OF THIS WORK SHALL BE INCLUDED IN THE PRICE BID FOR SHOULDER
- 7. ALL AREAS DISTURBED BY THE CONTRACTOR INCLUDING THE CONTRACTOR'S PARKING AREA, HAUL ROADS, ETC. SHALL BE REGRADED AND RESEEDED AND/OR RESTORED TO THEIR ORIGINAL CONDITION. THIS RESTORATION SHALL BE ACCOMPLISHED BY THE CONTRACTOR AT HIS OWN EXPENSE UPON COMPLETION OF THIS IMPROVEMENT PROJECT.

| | INDEX OF SHEETS | | |
|-------|---|--|--|
| NO. | DESCRIPTION | | |
| 1 | COVER SHEET | | |
| 2 | INDEX OF SHEETS, GENERAL NOTES, SUMMARY OF QUANTITIES | | |
| 3 | CONSTRUCTION SAFETY & PHASING PLAN | | |
| 4 | TAXIWAY TYPICAL SECTIONS | | |
| 5 | APRON TYPICAL SECTIONS | | |
| 6-8 | PAVEMENT LAYOUT AND ELEVATIONS | | |
| 9 | FUELING PAD LAYOUT PLAN | | |
| 10-12 | PAVEMENT MARKING LAYOUT | | |
| 13 | SPECIAL DETAILS | | |

| | SUMMARY OF QUANTITIES | | | |
|----------|-----------------------------------|----------|--------------------|----------------------|
| ITEM NO. | DESCRIPTION | UNIT | AS BID QUANTITY | AS BUILT QUANTITY |
| AR150530 | TRAFFIC MAINTENANCE | L. SUM | 1 | |
| AR152480 | SHOULDER ADJUSTMENT | SQ. YD. | 906 | |
| AR401613 | BIT. SURF. CSEMETHOD I, SUPERPAVE | TON | 1,935 | |
| AR401650 | BITUMINOUS PAVEMENT MILLING | SQ. YD. | 7,113 | |
| AR401655 | BUTT JOINT CONSTRUCTION | SQ. YD. | 1,338 | |
| AR401661 | BITUMINOUS CRACK SEALING | LIN. FT. | 2,260 | |
| AR401662 | SURFACE COURSE CRACK REPAIR | SQ. YD. | 185 | |
| AR501506 | 6" PCC PAVEMENT | SQ. YD. | 225 | |
| AR510510 | TIE DOWN | EACH | 26 | |
| AR603510 | BITUMINOUS TACK COAT | GAL. | 1,481 | |
| AR620520 | PAVEMENT MARKING - WATERBORNE | SQ. FT. | 1,068 | |
| AR620525 | PAVEMENT MARKING - BLACK BORDER | SQ. FT. | 150 | |

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GENERAL NOTES, OF QUANTITIES PORTION PITTSFIELD PENSTONE MUNICIPAL AIRPORT CITY OF PITTSFIELD, ILLINOIS REHABILITATE ALL 3 TAXIWAYS, NORTH PORTIO MAIN APRON, & FBO APRON OF SHEETS, SUMMARY

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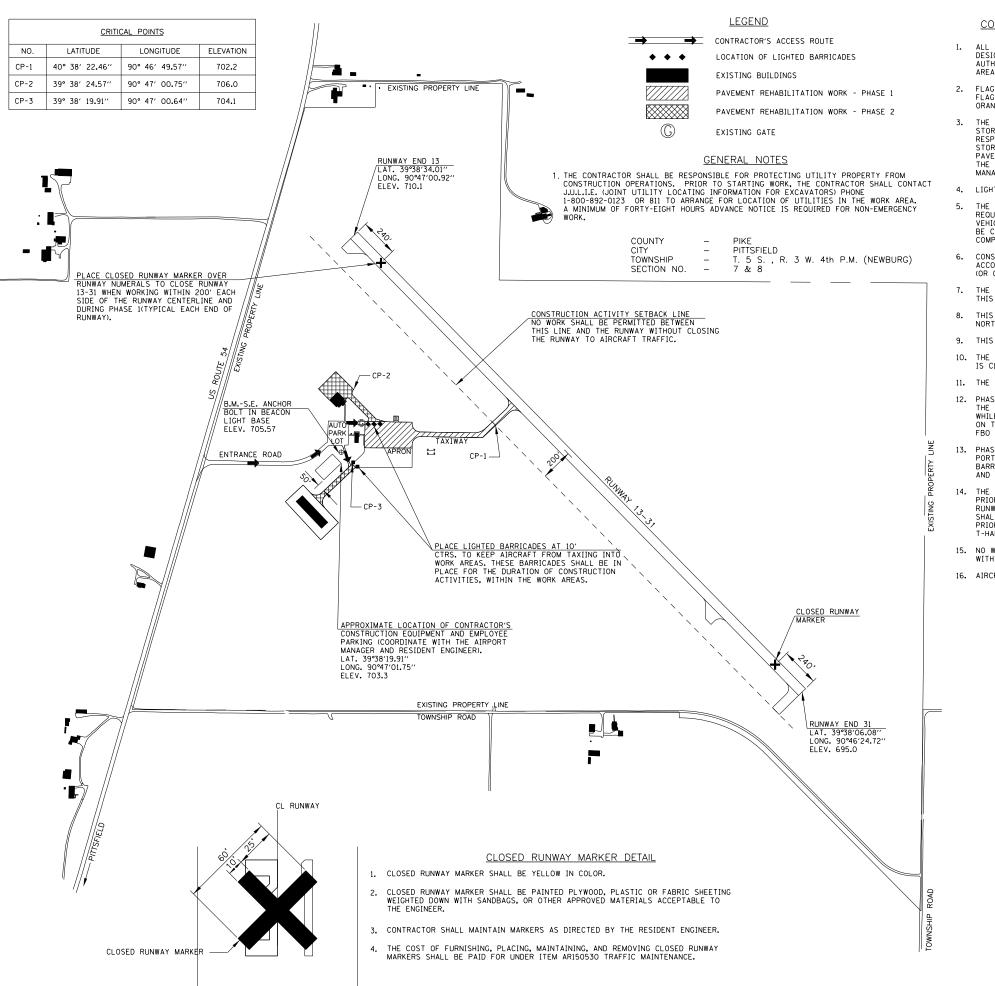
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SHEET 2 OF 13

| SUMMARY OF QUANTITIES | | | | |
|-----------------------|-----------------------------------|----------|--------------------|----------------------|
| ITEM NO. | DESCRIPTION | UNIT | AS BID QUANTITY | AS BUILT QUANTITY |
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| AR401662 | SURFACE COURSE CRACK REPAIR | SQ. YD. | 185 | |
| AR501506 | 6" PCC PAVEMENT | SQ. YD. | 225 | |
| AR510510 | TIE DOWN | EACH | 26 | |
| AR603510 | BITUMINOUS TACK COAT | GAL. | 1,481 | |
| AR620520 | PAVEMENT MARKING - WATERBORNE | SQ. FT. | 1,068 | |
| | | | | |



CONSTRUCTION PROCEDURE NOTES

 ALL CONTRACTOR EMPLOYEES WILL PARK THEIR PERSONAL VEHICLES IN THE AREA DESIGNATED IN THESE PLANS FOR USE AS A VEHICLE PARKING AREA. ONLY AUTHORIZED CONTRACTOR VEHICLES WILL BE ALLOWED ON THE AIR OPERATIONS AREA OF THE AIRPORT AND ON THE CONSTRUCTION SITE.

PLACS WILL BE REQUIRED ON ALL CONTRACTOR'S VEHICLES AND EQUIPMENT. THE FLAGS SHALL BE THREE (3) FOOT SQUARE CHECKERED FLAGS (INTERNATIONAL ORANGE AND WHITE) DISPLAYED IN FULL VIEW ABOVE THE VEHICLE.

THE CONTRACTOR WILL USE THE DESIGNATED ACCESS ROUTE AND EQUIPMENT STORAGE AREA SHOWN ON THIS SHEET. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN THE DESIGNATED ACCESS ROUTE AND EQUIPMENT STORAGE AREA FOR THE DURATION OF THE PROJECT. ANY DAMAGE TO EXISTING PAVEMENTS USED FOR ACCESS TO THE CONSTRUCTION SITE WILL BE REPAIRED BY THE CONTRACTOR AT HIS OWN EXPENSE TO THE SATISFACTION OF THE AIRPORT MANAGER AND RESIDENT ENGINEER.

- 4. LIGHTED BARRICADES WILL BE EQUIPPED WITH RED FLASHING LIGHTS.
- 5. THE CONTRACTOR SHALL FURNISH, MAINTAIN, AND REMOVE ALL BARRICADES REQUIRED TO DELINEATE THE WORK AREA AND KEEP AIRCRAFT OR GROUND VEHICLES FROM ENCROACHING INTO SAID WORK AREA. THIS REQUIREMENT SHALL BE CONSIDERED INCIDENTAL TO TRAFFIC MAINTENANCE AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- CONSTRUCTION ACTIVITY CONTROL AND OPERATION AREA PROTECTION SHALL BE ACCOMPLISHED IN ACCORDANCE WITH FAA ADVISORY CIRCULAR NO. 150/5370-2F (OR CURRENT).
- 7. THE MAXIMUM CONSTRUCTION EQUIPMENT HEIGHT UTILIZED ON THE AIRPORT FOR THIS PROJECT SHALL BE 25'.
- 8. THIS PROJECT CONSISTS OF WORK TO REHABILITATE ALL 3 TAXIWAYS, THE NORTHERN PORTION OF THE MAIN APRON, AND THE FBO APRON.
- . THIS PROJECT WILL NOT DISTURB MORE THAN 1 ACRE OF TURFED LAND.
- 10. THE PROPOSED APRON TAXILANE STRIPE SHALL BE MARKED WHILE RUNWAY 13-31 IS CLOSED.
- 11. THE EXISTING RUNWAY DESIGN CODE IS B-II FOR RUNWAY 13-31.
- 12. PHASE 1 RUNWAY 13-31, THE MAIN CONNECTING TAXIWAY FROM THE APRON, AND THE NORTH PORTION OF THE MAIN APRON SHALL BE CLOSED TO AIRCRAFT TRAFFIC WHILE WORK IS ACCOMPLISHED ON THE NORTH PORTION OF THE MAIN APRON AND ON THE MAIN TAXIWAY, PLACE BARRICADES AT THE ENTRANCE TO THE NORTHERN FBO TAXIWAY AND AT THE ENTRANCE TO THE T-HANGAR TAXIWAY.
- 13. PHASE 2 OPEN RUNWAY 13-31, THE MAIN CONNECTING TAXIWAY, AND THE NORTH PORTION OF THE MAIN APRON TO AIRCRAFT TRAFFIC AND FUELING OPERATIONS. BARRICADES TO REMAIN IN PLACE TO DENY ACCESS TO THE NORTHERN FBO TAXIWAY AND T-HANGAR TAXIWAY WHILE WORK IS ACCOMPLISHED IN THESE AREAS.
- 14. THE CONTRACTOR SHALL GIVE THE AIRPORT MANAGEMENT THREE DAYS NOTICE PRIOR TO STARTING ANY CONSTRUCTION WHICH WOULD NECESSITATE CLOSURE OF RUNWAYS, TAXIWAYS, AND T-HANGAR ACCESS PAVEMENTS. AIRPORT MANAGEMENT SHALL GIVE PROPER NOTICE (NOTAMS) TO THE NEAREST FAA FLIGHT SERVICE STATION PRIOR TO THE START OF CONSTRUCTION AND CLOSURE OF RUNWAYS, TAXIWAYS, AND T-HANGAR ACCESS PAVEMENTS.
- 15. NO WORK SHALL BE PERFORMED WITHIN 66' OF AN ACTIVE TAXIWAY CENTERLINE, OR WITHIN 58' OF AN ACTIVE TAXILANE/ APRON TAXILANE.
- 16. AIRCRAFT WILL NOT BE ALLOWED ON ANY PART OF THE APRON DURING PHASE 1.

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PITTSFIELD PENSTONE MUNICIPAL AIRPORT
CITY OF PITTSFIELD, ILLINOIS
REHABILITATE ALL 3 TAXIWAYS, NORTH PORTION
MAIN APRON, & FBO APRON
CONSTRUCTION SAFETY &
PHASING PLAN

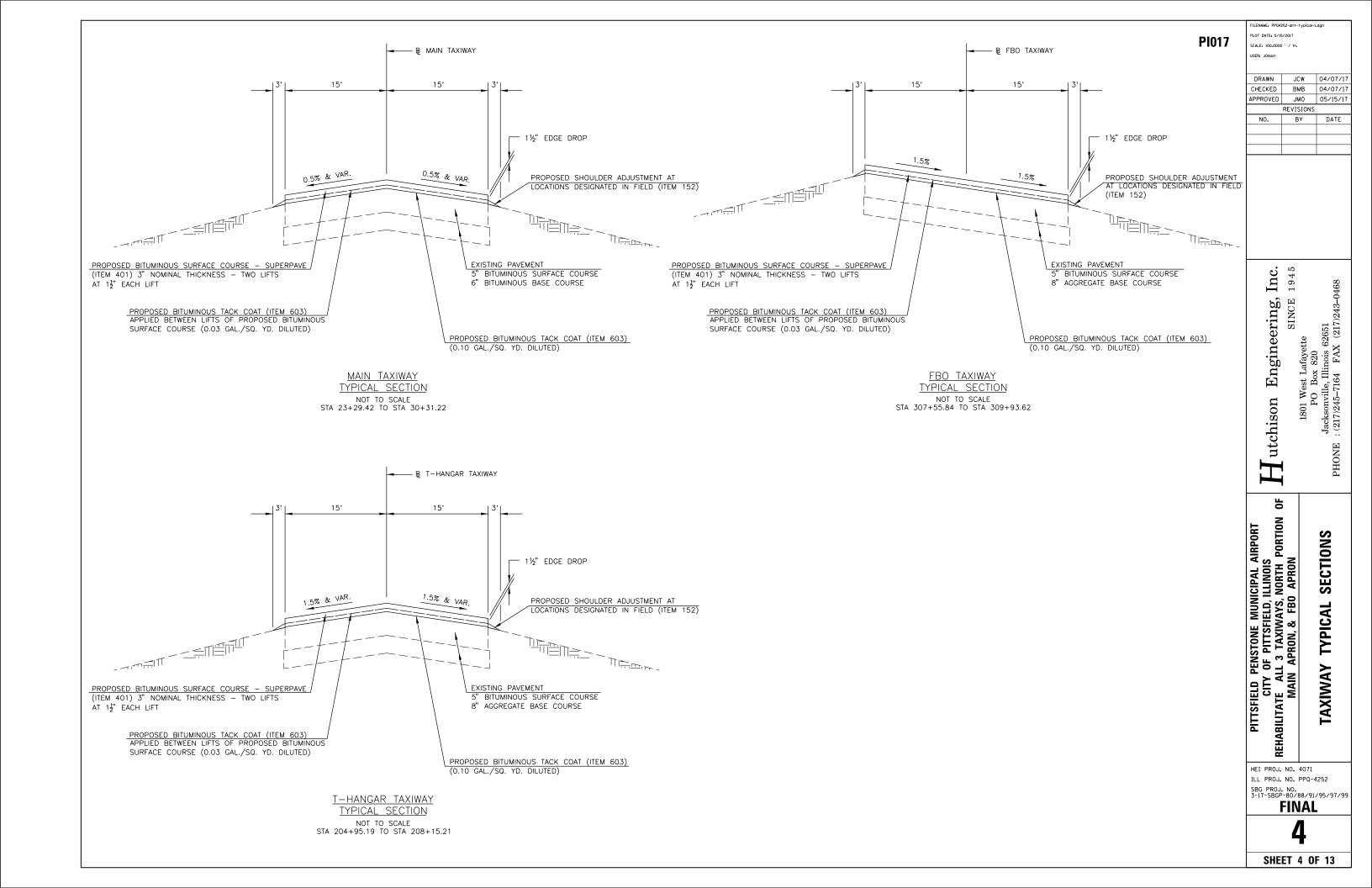
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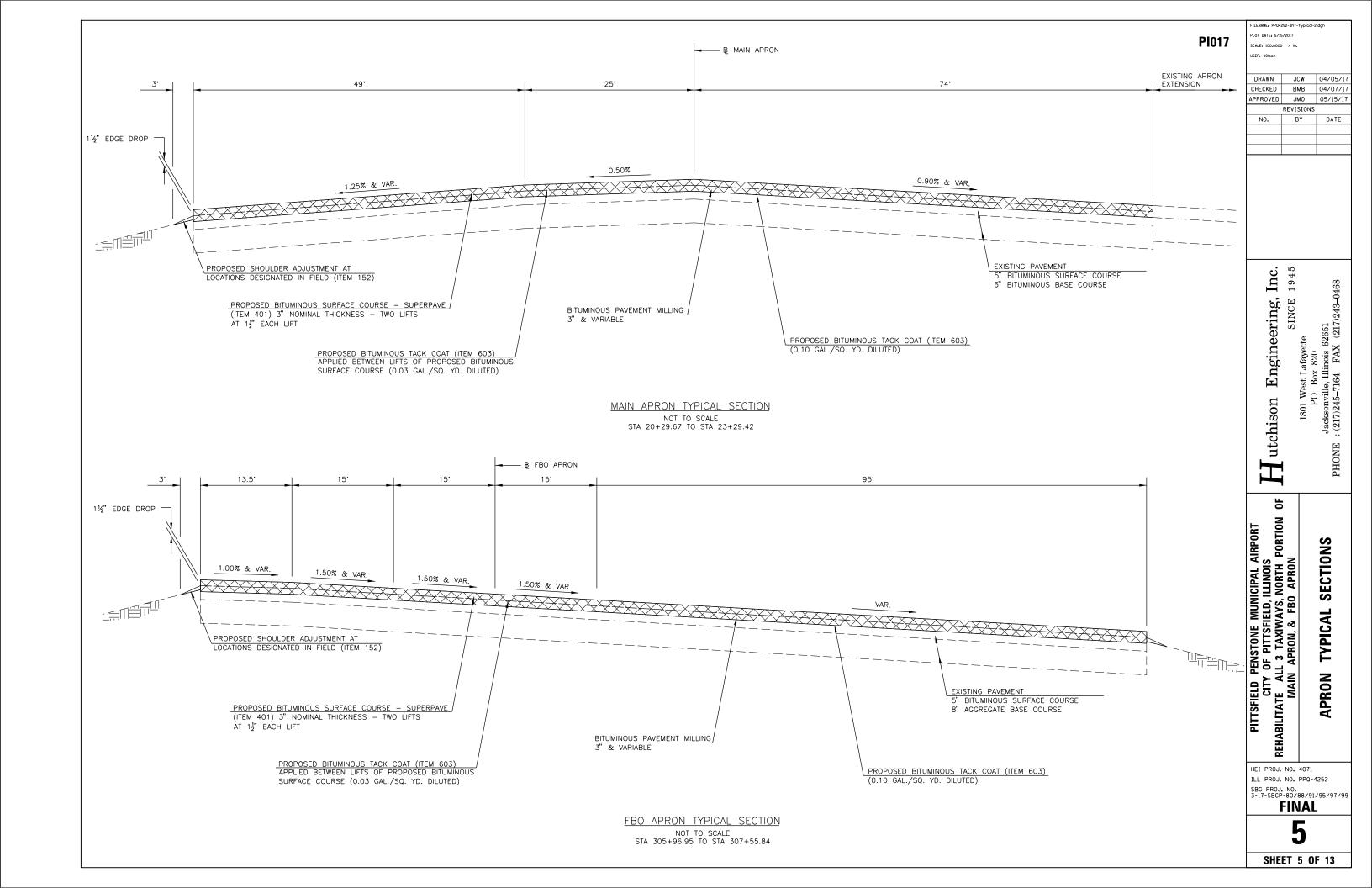
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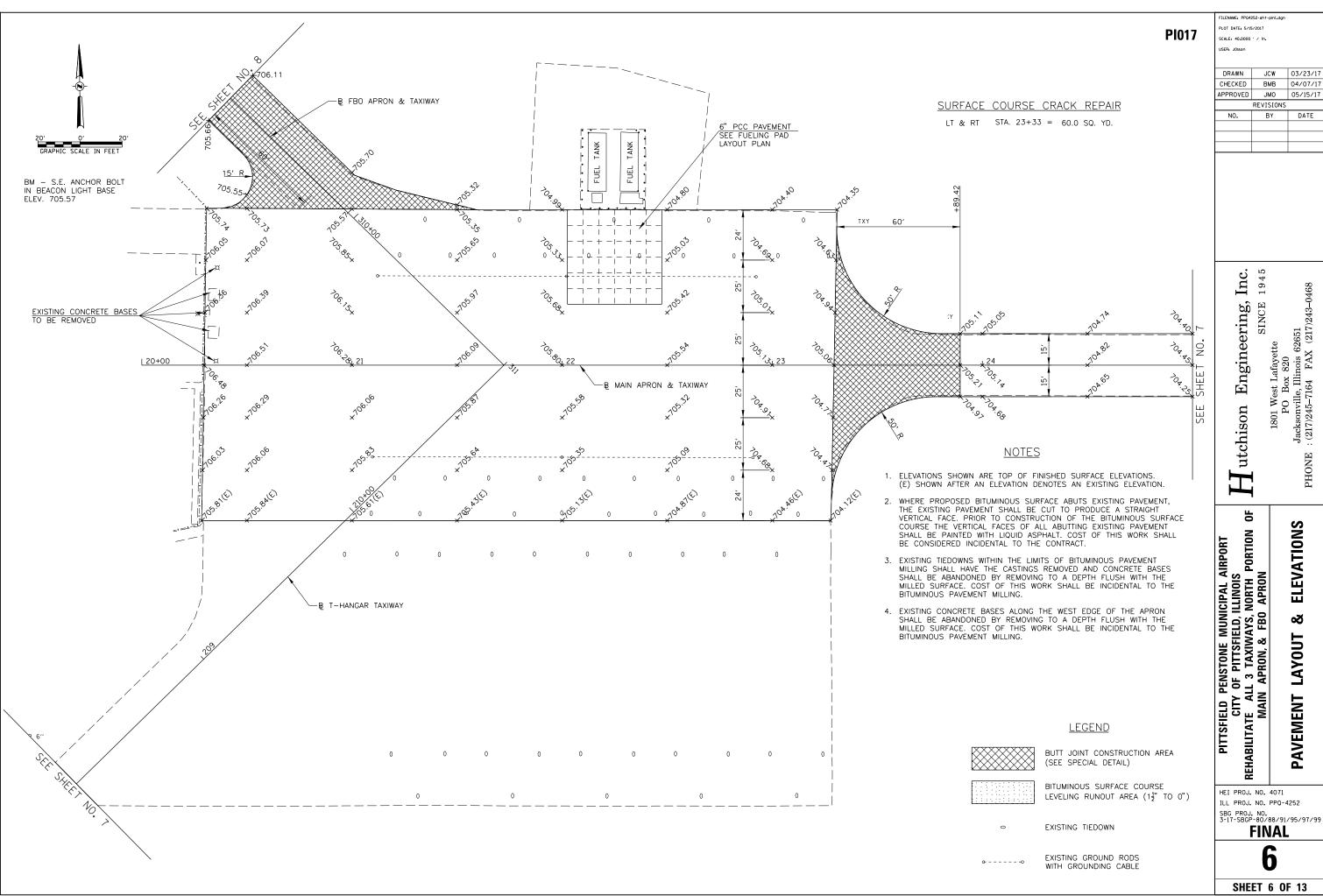
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SHEET 3 OF 13

GRAPHIC SCALE IN FEET

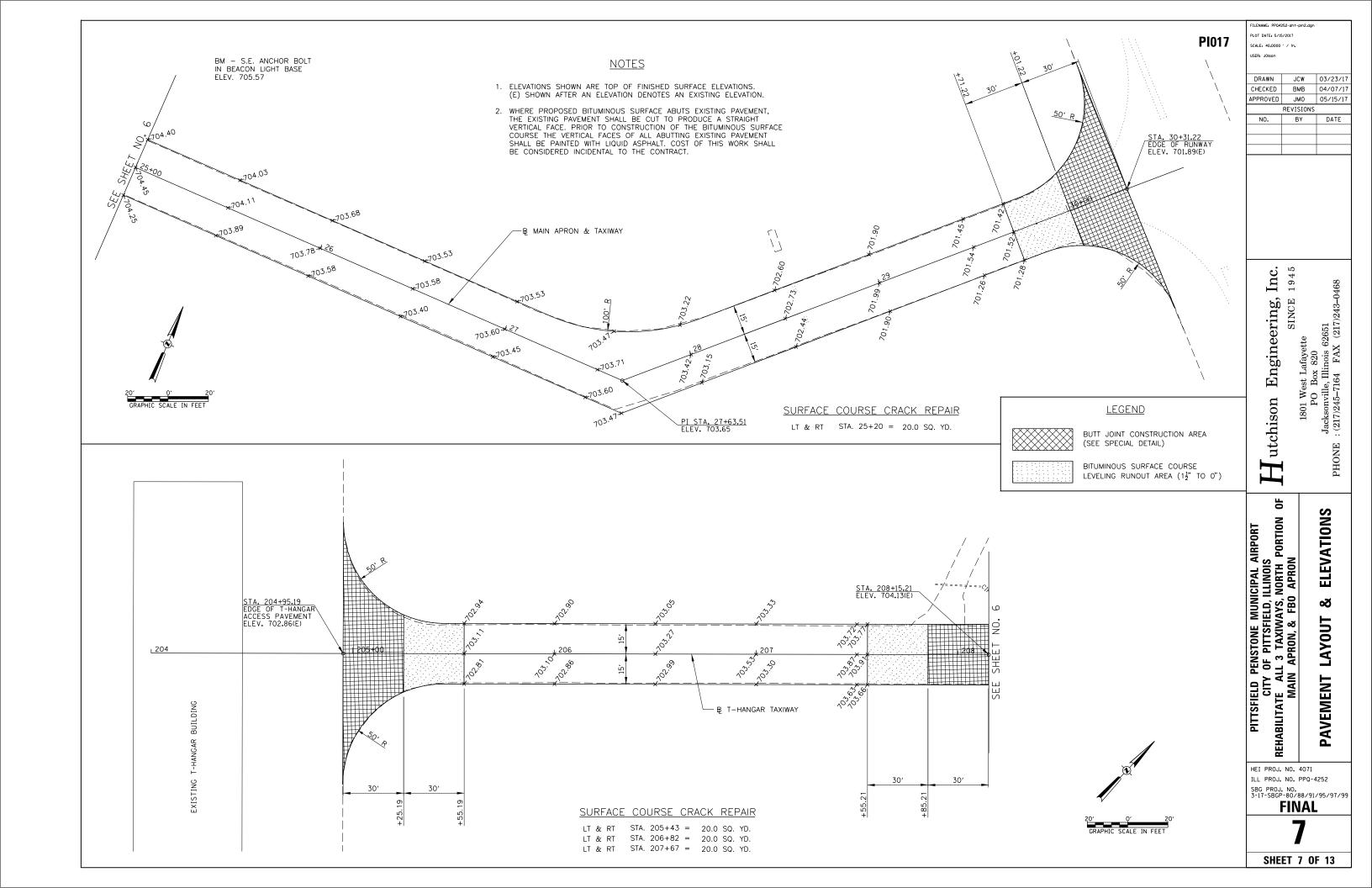






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ELEVATIONS ∞ **LAYOUT**



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ELEVATIONS PITTSFIELD PENSTONE MUNICIPAL AIRPORT CITY OF PITTSFIELD, ILLINOIS REHABILITATE ALL 3 TAXIWAYS, NORTH PORTION MAIN APRON, & FBO APRON ∞ **LAYOUT PAVEMENT**

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LEGEND

(SEE SPECIAL DETAIL)

EXISTING TIEDOWN

EXISTING GROUND RODS WITH GROUNDING CABLE

BUTT JOINT CONSTRUCTION AREA

BITUMINOUS SURFACE COURSE LEVELING RUNOUT AREA (11 TO 0")

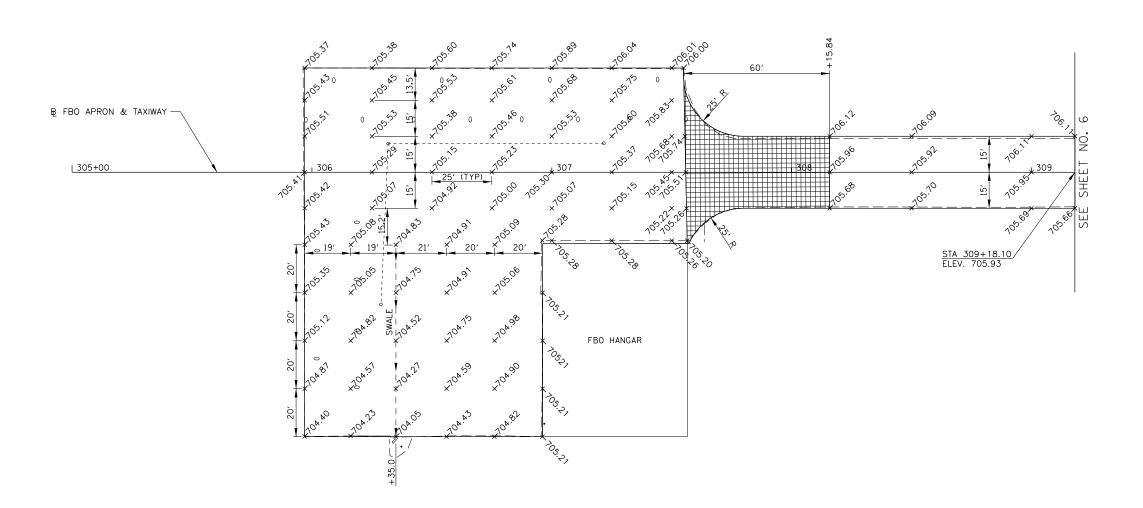
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SHEET 8 OF 13

ELEVATIONS SHOWN ARE TOP OF FINISHED SURFACE ELEVATIONS.
 (E) SHOWN AFTER AN ELEVATION DENOTES AN EXISTING ELEVATION.

2. WHERE PROPOSED BITUMINOUS SURFACE ABUTS EXISTING PAVEMENT, THE EXISTING PAVEMENT SHALL BE CUT TO PRODUCE A STRAIGHT VERTICAL FACE. PRIOR TO CONSTRUCTION OF THE BITUMINOUS SURFACE COURSE THE VERTICAL FACES OF ALL ABUTTING EXISTING PAVEMENT SHALL BE PAINTED WITH LIQUID ASPHALT. COST OF THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.

3. EXISTING TIEDOWNS WITHIN THE LIMITS OF BITUMINOUS PAVEMENT MILLING SHALL HAVE THE CASTINGS REMOVED AND CONCRETE BASES SHALL BE ABANDONED BY REMOVING TO A DEPTH FLUSH WITH THE MILLED SURFACE. COST OF THIS WORK SHALL BE INCIDENTAL TO THE BITUMINOUS PAVEMENT MILLING.

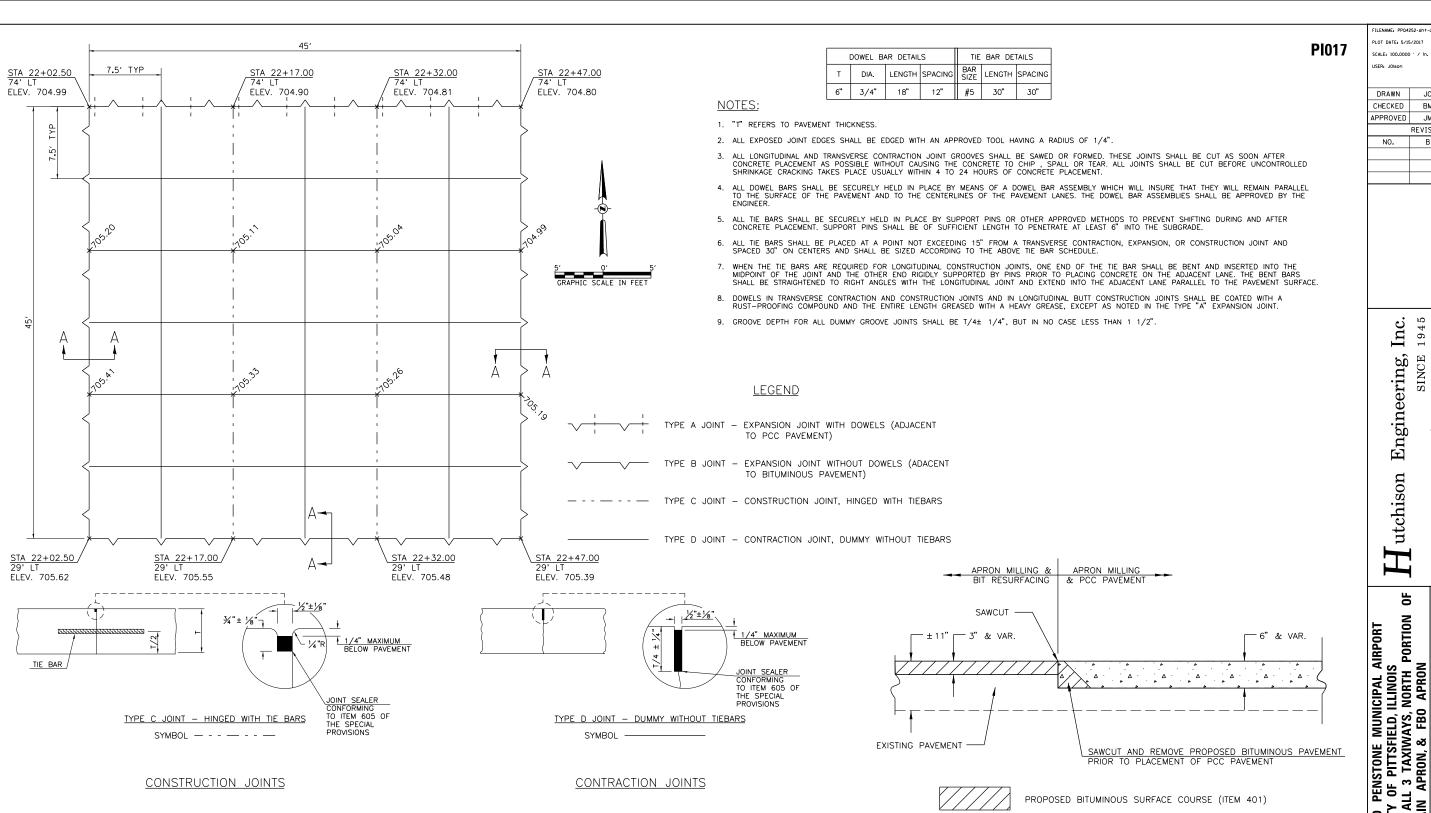


SURFACE COURSE CRACK REPAIR

STA. 307+60 = 14.4 SQ. YD.LT & RT STA. 308+21 = 20.0 SQ. YD. STA. 308+36 = 10.0 SQ. YD.

BM - S.E. ANCHOR BOLT IN BEACON LIGHT BASE

ELEV. 705.57



TYPE D JOINT - DUMMY WITHOUT TIEBARS

CONTRACTION JOINTS

BOND BREAKER

NON-EXTRUDING PREMOLDED COMPRESSIBLE MATERIAL

¾"± ½"¬

TO ITEM 605 OF THE SPECIAL

TYPE B JOINT - WITHOUT DOWELS

(ADJACENT TO BITUMINOUS PAVEMENT)

EXPANSION JOINTS

SYMBOL ~

TYPE C JOINT - HINGED WITH TIE BARS

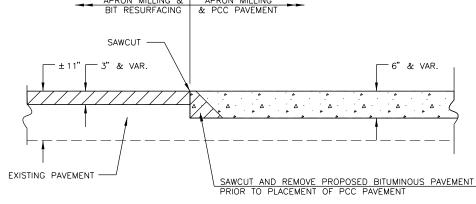
CONSTRUCTION JOINTS

EXPANSION CAP,
SLIP FIT

TYPE A JOINT - DOWELED

(ADJACENT TO PCC PAVEMENT)

PAINT AND GREASE
THIS END OF DOWEL



PROPOSED BITUMINOUS SURFACE COURSE (ITEM 401)

PROPOSED 6" PCC PAVEMENT (ITEM 501)

SECTION A-A

TO ITEM 605 OF THE SPECIAL

1/4" MAXIMUM BELOW PAVEMENT

JOINT SEALER
CONFORMING

PROVISIONS

TO ITEM 605 OF THE SPECIAL

- 1. INCREASE BITUMINOUS PAVEMENT MILLING DEPTH FROM 3" AND VARIABLE TO 6" AND VARIABLE IN AREA OF PCC PAVEMENT.
- 2. PLACE PROPOSED BITUMINOUS SURFACE COURSE PRIOR TO CONSTRUCTION OF PCC PAVEMENT.
- 3. TO ACHIEVE REQUIRED DENSITY IMMEDIATELY ADJACENT TO THE CONSTRUCTION JOINT, PROPOSED BITUMINOUS SURFACE COURSE SHALL EXTEND BEYOND THE FINAL CONSTRUCTION JOINT LOCATION TO ALLOW FOR COMPACTION AGAINST AN UNCONFINED EDGE.
- 4. AFTER THE FINAL LIFT OF BITUMINOUS SURFACE COURSE IS PLACED. THE SURFACE COURSE IN THE AREA OF THE PCC PAVEMENT SHALL BE SAWCUT AND REMOVED PRIOR TO PLACING THE PCC PAVEMENT IN SUCH A MANNER THAT THE PCC PAVEMENT CAN BE PLACED AGAINST THE SAWCUT FACE.
- 5. THIS WORK SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED INCLUDED IN THE COST OF THE APPLICABLE PAY ITEMS.

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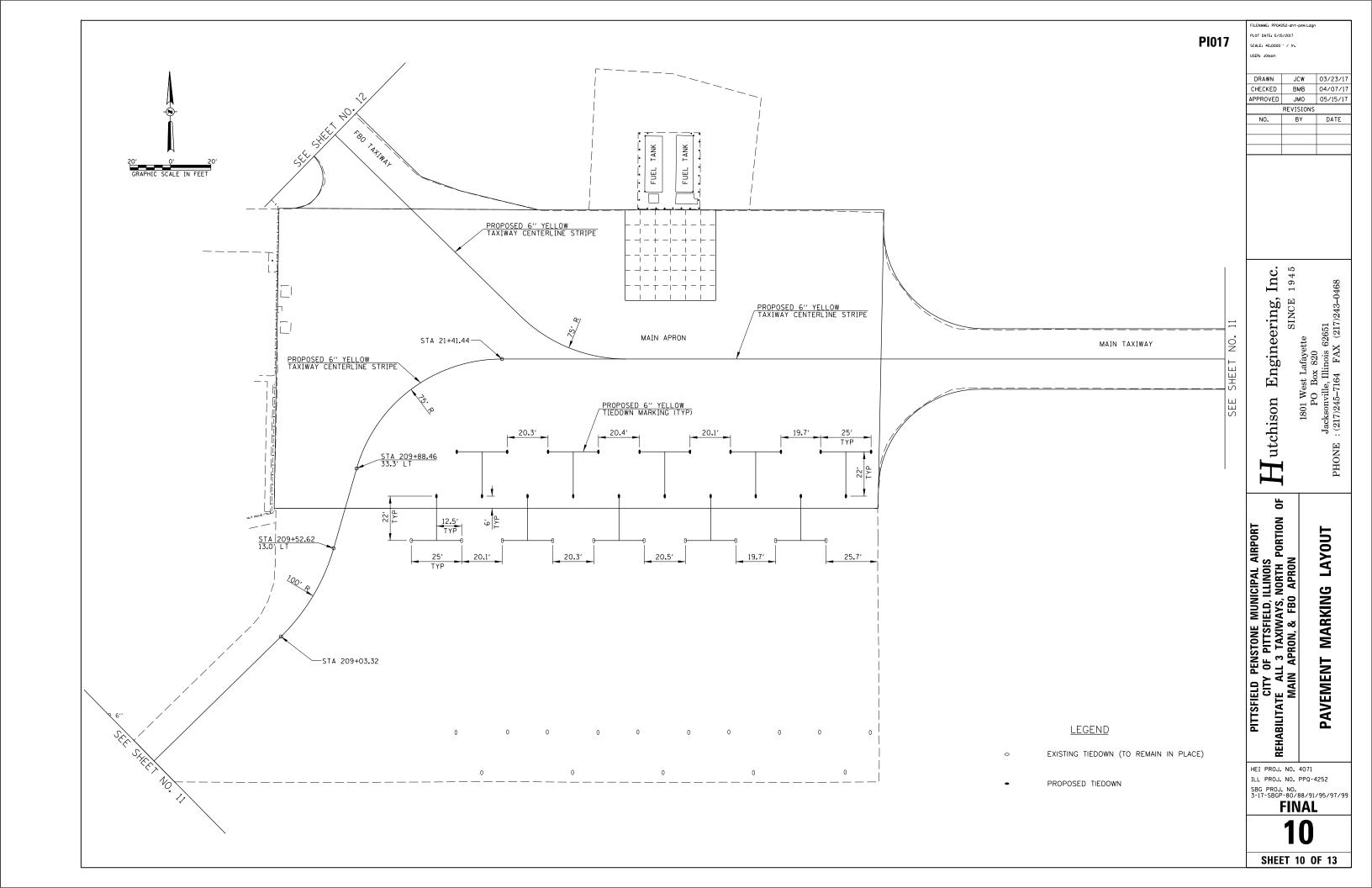
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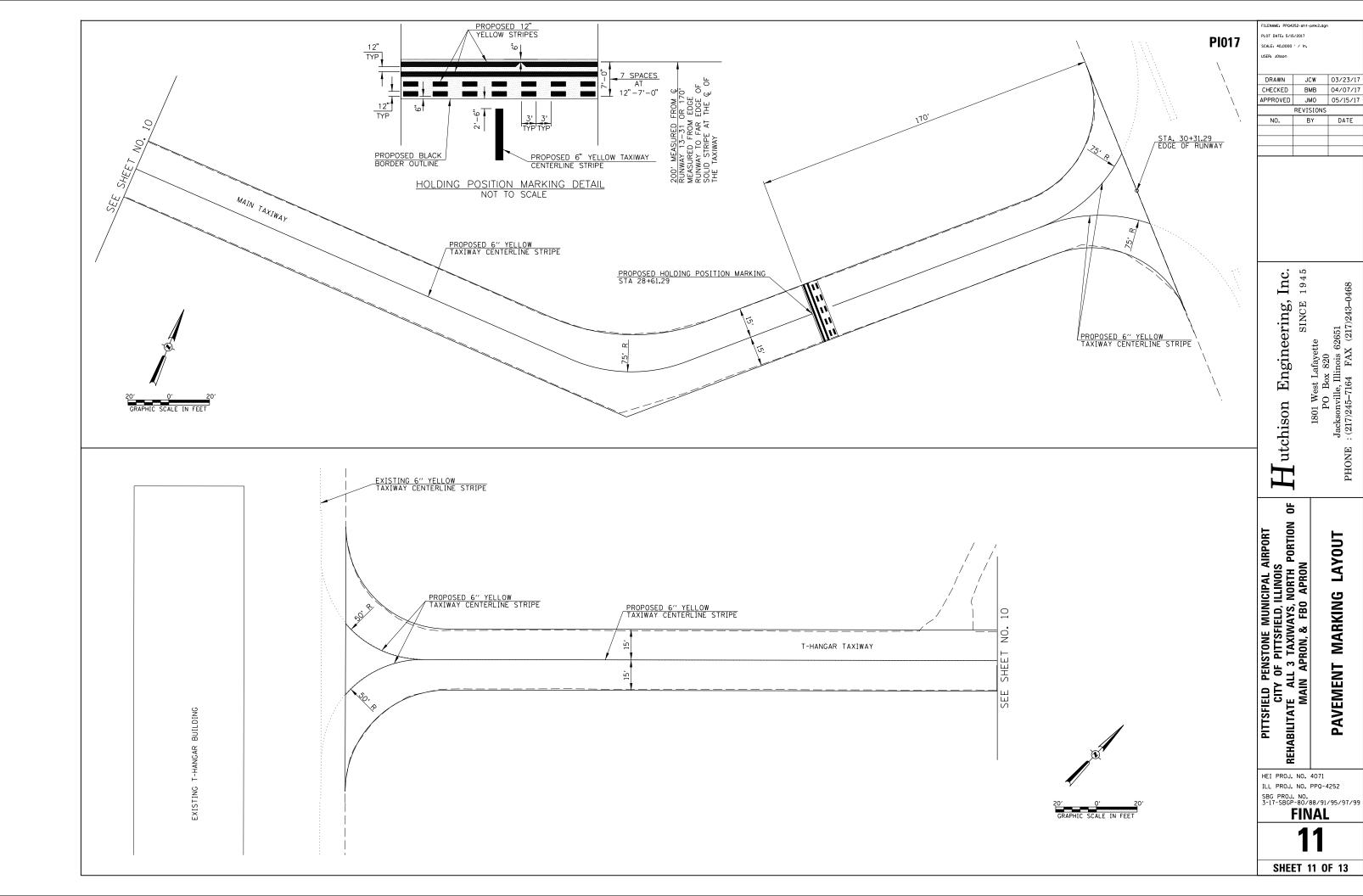
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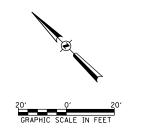
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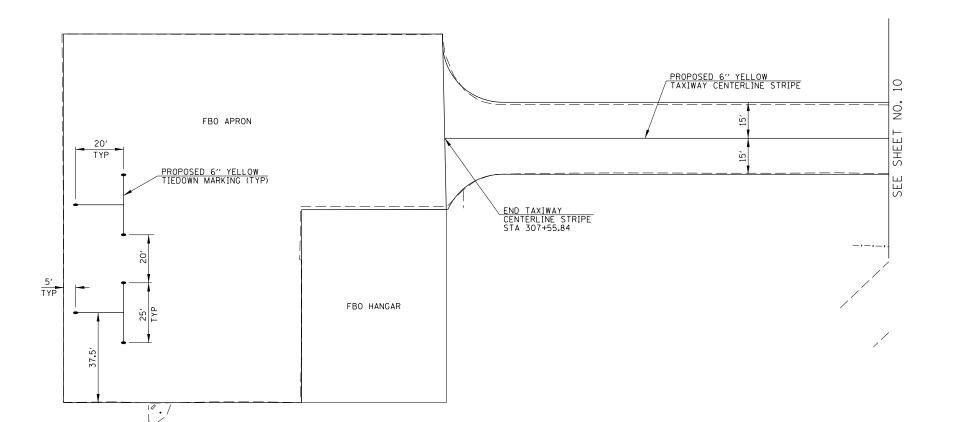
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SHEET 9 OF 13









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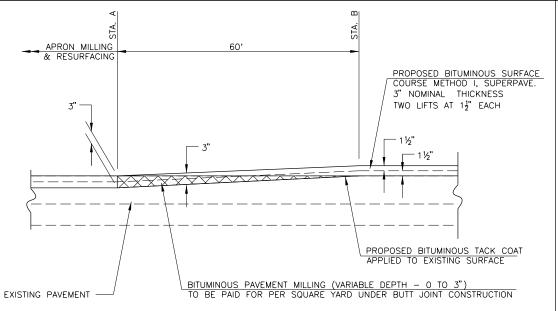
PAVEMENT MARKING LAYOUT

PITTSFIELD PENSTONE MUNICIPAL AIRPORT CITY OF PITTSFIELD, ILLINOIS REHABILITATE ALL 3 TAXIWAYS, NORTH PORTION MAIN APRON, & FBO APRON

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SBG PROJ. NO.
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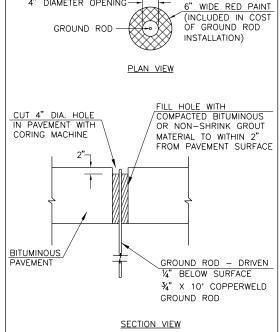
SHEET 12 OF 13

LEGEND PROPOSED TIEDOWN



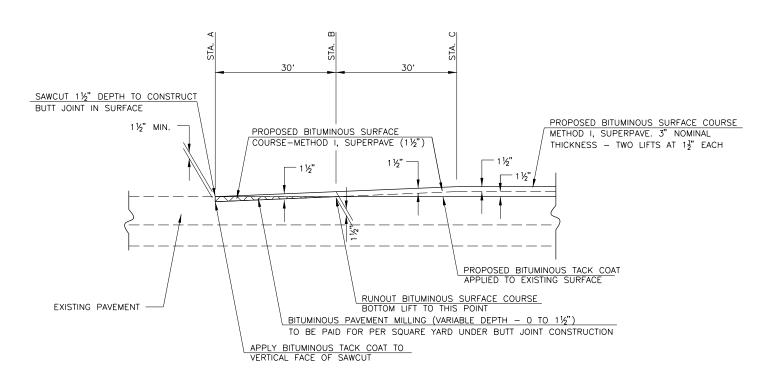
| TAXIWAY | STA A | STA B |
|---------|-----------|-----------|
| FB0 | 307+55.84 | 308+15.84 |
| FB0 | 309+40.99 | 308+80.99 |
| MAIN | 23+29.42 | 23+89.42 |

BITUMINOUS BUTT JOINT CONSTRUCTION DETAIL



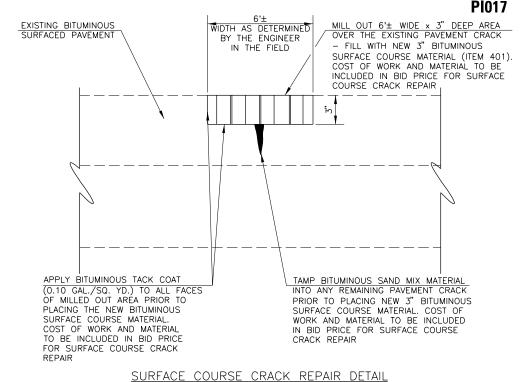
GROUND ROD DETAIL

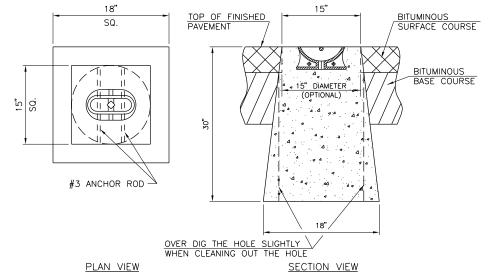
4" DIAMETER OPENING-



BITUMINOUS BUTT JOINT CONSTRUCTION DETAIL

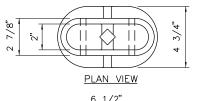
| STA A | STA B | STA B |
|-----------|-----------------------|--|
| 30+31.22 | 30+01.22 | 29+71.22 |
| 204+95.19 | 204+25.19 | 204+55.19 |
| 207+55.21 | 207+85.21 | 208+15.21 |
| | 30+31.22 204+95.19 | 30+31.22 30+01.22 204+95.19 204+25.19 |

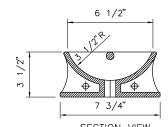




SECTION VIEW

CONCRETE BASE DETAILS





SECTION VIEW

MOORING EYE DETAILS

NOTES

- CONCRETE BASE TO BE STRUCTURAL P.C. CONCRETE.
- 2. MOORING CASTING TO BE NEENAH SEMI-STEEL AIRPORT MOORING EYE-CATALOG NO. R-3490 OR EQUIVALENT.
- ANCHOR RODS TO BE NO. 3 DEFORMED REINFORCING STEEL 15" LONG AND BENT DOWNWARD AT 45°.
- 4. INSTALLATION SHALL BE DONE AFTER COMPLETION OF BITUMINOUS SURFACE COURSE.
- 5. AFTER BITUMINOUS SURFACE COURSE HAS BEEN WAS COMPLETED, OPENING SHALL BE CUT WITH A SAW OR CORED.
- 6. THE CONTRACTOR SHALL HAVE HAD THE OPTION OF CONSTRUCTING THE CONCRETE BASE IN THE RECTANGULAR SHAPE SHOWN ABOVE OR IN A 15" MINIMUM DIAMETER CYLINDRICAL SHAPE AS SHOWN WITH DASHED LINES IN THE DETAILS ABOVE.

DETAIL OF TIEDOWN INSTALLATION

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DETAIL

PENSTONE MUNICIPAL AIRPORT Y OF PITTSFIELD, ILLINOIS ALL 3 TAXIWAYS, NORTH PORTION IN APRON, & FBO APRON PECIAL PITTSFIELD PEN CITY OF REHABILITATE ALL 3 MAIN A

HEI PROJ. NO. 4071 ILL PROJ. NO. PPQ-4252 SBG PROJ. NO. 3-17-SBGP-80/88/91/95/97/99

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SHEET 13 OF 13