SR094 TOTAL SHEETS = 12

CONSTRUCTION PLANS - ISSUED FEBRUARY 26, 2021

RECONSTRUCT BITUMINOUS T-HANGAR TAXILANES (WEST)

ST. LOUIS REGIONAL AIRPORT AUTHORITY ST. LOUIS REGIONAL AIRPORT (ALN) EAST ALTON, MADISON COUNTY, ILLINOIS

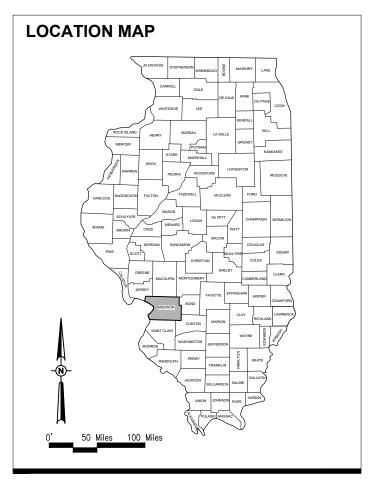
IDA PROJECT NO. : ALN-4840

SBG PROJECT NO.: 3-17-SBGP-162

SCOPE OF WORK:

THE PROJECT SCOPE ITEMS ARE TO INCLUDE RECONSTRUCTING THE BITUMINOUS T-HANGAR TAXILANE PAVEMENTS NEAR THE NORTHWEST AREA OF THE MAIN RAMP.

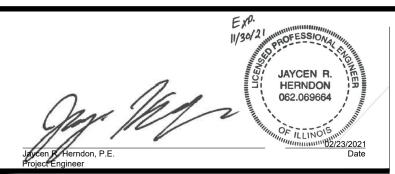
VICINITY MAP PROJECT LOCATION | Self-tell | Fosterburg | Beltrees | Beltree



NOTICE TO CONTRACTORS AND BIDDERS

THESE CONSTRUCTION PLANS RELY UPON THE SPECIAL PROVISIONS AND THE SPECIFICATIONS TO PROVIDE FOR A COMPLETE DESCRIPTION OF THE WORK AND CONSTRUCTION REQUIREMENTS. THE PLANS SHALL ONLY BE USED IN COMBINATION WITH ALL CONTRACT DOCUMENTS.

| | | | | | i |
|-----|-------------------|----------------|------|----|---|
| | | | | | |
| | | | | | İ |
| | | | | | İ |
| | | | | | İ |
| | | | | | |
| | | | | | |
| No. | Issue/Description | Sheets Changed | Date | Ву | l |





| St.Louis Regional | |
|---|------------|
| TAIRPORT | |
| ST. LOUIS REGIONAL AIRPORT AUTHORITY | |
| 8 Terminal Drive | |
| East Alton, Illinois 62024 | |
| Telephone: 618.259.2531 | |
| Fax: 618:259.7669 | |
| /) | |
| () () u / 00 | |
| | |
| Jan Jan Jan Jan Jan Jan Jan Jan Jan Jan | 02/23/2021 |
| David C. Miller | 02/23/2021 |

n 02/23/2021 (02/23/2021 Date

| | SUMMARY OF QUANTITIES | - BASE BID | | |
|----------|-----------------------------------|------------|-------------------|----------------------|
| ITEM NO. | DESCRIPTION | UNIT | TOTAL QUANTITY | AS-BUILT QUANTITY |
| AR150510 | ENGINEER'S FIELD OFFICE | L.S. | 1 | |
| AR150520 | MOBILIZATION | L.S. | 1 | |
| AR150540 | HAUL ROUTE | L.S. | 1 | |
| AR152410 | UNCLASSIFIED EXCAVATION | C.Y. | 35 | |
| AR152480 | SHOULDER ADJUSTMENT | S.Y. | 649 | |
| AR156500 | TEMPORARY EROSION CONTROL | L.S. | 1 | |
| AR156530 | TEMPORARY SEEDING | ACRE | 0.29 | |
| AR156531 | EROSION CONTROL BLANKET | S.Y. | 1,395 | |
| AR208540 | OVERSIZE AGGREGATE | TON | 1,203 | |
| AR209510 | CRUSHED AGGREGATE BASE COURSE | TON | 1,203 | |
| AR401613 | BIT. SURF. CSEMETHOD I, SUPERPAVE | TON | 863 | |
| AR401620 | BIT. SURFACE COURSE, LEVELING | TON | 863 | |
| AR401900 | REMOVE BITUMINOUS PAVEMENT | S.Y. | 3,435 | |
| AR401901 | REMOVE BITUMINOUS SURFACE COURSE | S.Y. | 6,566 | |
| AR602510 | BITUMINOUS PRIME COAT | GAL. | 1,203 | |
| AR603510 | BITUMINOUS TACK COAT | GAL. | 2,485 | |
| AR620520 | PAVEMENT MARKING-WATERBORNE | S.F. | 1,291 | |
| AR620525 | PAVEMENT MARKING-BLACK BORDER | S.F. | 2,567 | |
| AR701512 | 12" RCP, CLASS IV | L.F. | 314 | |
| AR701524 | 24" RCP, CLASS IV | L.F. | 24 | |
| AR701530 | 30" RCP, CLASS IV | L.F. | 24 | |
| AR701900 | REMOVE PIPE | L.F. | 48 | |
| AR751411 | INLET-TYPE A | EA. | 7 | |
| AR751900 | REMOVE INLET | EA. | 1 | |
| AR901510 | SEEDING | ACRE | 0.29 | |

| | SUMMARY OF QUANTITIES - ADD. ALT. BID | | | | | |
|----------|---------------------------------------|------|-------------------|----------------------|--|--|
| ITEM NO. | DESCRIPTION | UNIT | TOTAL QUANTITY | AS-BUILT QUANTITY | | |
| AS152480 | SHOULDER ADJUSTMENT | S.Y. | 380 | | | |
| AS156500 | TEMPORARY EROSION CONTROL | L.S. | 1 | | | |
| AS156530 | TEMPORARY SEEDING | ACRE | 0.08 | | | |
| AS156531 | EROSION CONTROL BLANKET | S.Y. | 380 | | | |
| AS208540 | OVERSIZE AGGREGATE | TON | 304 | | | |
| AS209510 | CRUSHED AGGREGATE BASE COURSE | TON | 304 | | | |
| AS401613 | BIT. SURF. CSEMETHOD I, SUPERPAVE | TON | 541 | | | |
| AS401620 | BIT. SURFACE COURSE, LEVELING | TON | 541 | | | |
| AS401900 | REMOVE BITUMINOUS PAVEMENT | S.Y. | 869 | | | |
| AS401901 | REMOVE BITUMINOUS SURFACE COURSE | S.Y. | 5,400 | | | |
| AS602510 | BITUMINOUS PRIME COAT | GAL. | 304 | | | |
| AS603510 | BITUMINOUS TACK COAT | GAL. | 1,751 | | | |
| AS901510 | SEEDING | ACRE | 0.08 | | | |

| | INDEX TO SHEETS | | | |
|-----------------|---|--|--|--|
| SHEET NUMBER | SHEET TITLE | | | |
| 1 | COVER SHEET | | | |
| 2 | SUMMARY OF QUANTITIES AND INDEX TO SHEETS | | | |
| 3 | SCOPE OF WORK | | | |
| 4 | PROPOSED SAFETY AND PHASING PLAN - PHASE 1 | | | |
| 5 | PROPOSED SAFETY AND PHASING PLAN - PHASE 2 | | | |
| 6 | CONSTRUCTION SAFETY AND PHASING DETAILS AND NOTES | | | |
| 7 | TYPICAL SECTIONS AND DETAILS | | | |
| 8 | PROPOSED DEMOLITION PLAN | | | |
| 9 | PROPOSED VARIABLE MILLING PLAN | | | |
| 10 | PROPOSED CONSTRUCTION PLAN | | | |
| 11 | PROPOSED STAKING PLAN | | | |
| 12 | PROPOSED MARKING PLAN | | | |
| 13 | STORM WATER POLLUTION PREVENTION PLAN | | | |

| EARTHWORK QUANTITY SUMMARY | | | | | |
|----------------------------|-------------|--------------|--------------------|-------------|--|
| WORK AREA | CUT (CY) | FILL (CY) | FILL + 20% (CY) | NET (CY) | |
| BASE BID | 8 | 29 | 35 | 27 (BORROW) | |
| ALTERNATE BID | 0 | 0 | 0 | 0 | |

^{**} USED TO CALCULATE AR152410 PAY ITEM QUANTITIES

EARTHWORK NOTES:

- EARTHWORK QUANTITIES (CUT/FILL VOLUMES) SHOWN ABOVE WERE CALCULATED UTILIZING AUTODESK CIVIL3D 2019 SOFTWARE THROUGH AUTOCAD. THE CALCULATION METHOD WAS BY A COMPARISON OF SURFACE MODELS CREATED WITH EXISTING SURVEY DATA AND PROPOSED DESIGN GRADES. THE VOLUMES WERE CALCULATED IN TWO PARTS: THE CUT/FILL VOLUME REQUIRED TO CORE OUT AND FILL FOR THE PROPOSED PAVEMENT SECTION AS COMPARED TO THE EXISTING SUBGRADE DATUM, AND THE CUT/FILL VOLUMES REQUIRED FOR PROPOSED GRADING WORK OUTSIDE OF THE PROPOSED PAVEMENT LIMITS AS COMPARED TO THE EXISTING GROUND SURFACE. THE NUMBERS IN THE SUMMARY TABLES ABOVE REPRESENT A TOTAL OF THESE TWO PARTS ADDED TOGETHER FOR CLARITY.
- 2. FOLLOWING THE PROJECT AWARD, THE ENGINEER CAN PROVIDE THE RELEVANT AUTOCAD AND CIVIL 3D SURFACE MODEL FILES TO THE AWARDED CONTRACTOR UPON REQUEST TO ASSIST WITH CONSTRUCTION LAYOUT.

GENERAL NOTES:

QUANTITIES
PAYMENT WILL BE MADE UNDER THE ITEM NUMBERS, DESCRIPTIONS AND UNITS NOTED IN THE ABOVE TABLE IN ACCORDANCE WITH THE BASIS OF PAYMENT FOR EACH RESPECTIVE WORK ITEM COMPLETED AND ACCEPTED BY

CERITIFIED PAYROLLS
THE RESIDENT ENGINEER/TECHNICIAN CANNOT FORWARD CONSTRUCTION REPORTS TO THE ILLINOIS DIVISION OF AERONAUTICS FOR PROCESSING UNTIL ALL CERTIFIED PAYROLLS FOR THE PERIOD HAVE BEEN RECEIVED.

MATERIALS TO BE INCORPORATED INTO THE PROJECT CANNOT BE USED WITHOUT PRIOR APPROVAL. ALL MATERIALS TO BE USED IN THE PROJECT MUST BE SUBMITTED TO THE RESIDENT ENGINEER/TECHNICIAN FOR APPROVAL. USE OF MATERIALS WITHOUT PRIOR APPROVAL AND ULTIMATELY DETERMINED TO BE UNACCEPTABLE BY THE ILLINOIS DIVISION OF AERONAUTICS ARE SUBJECT TO REMOVAL AND/OR NON-PAYMENT.



www.hanson-inc.com

Hanson Professional Services Inc. 1525 S. 6th Street Springfield, IL 62703 phone: 217-788-2450 fax: 217-788-2503

Professional Service Corporation #184-001084



ST. LOUIS REGIONAL AIRPORT AUTHORITY

ST. LOUIS REGIONAL AIRPORT 8 TERMINAL DRIVE EAST ALTON, ILLINOIS 62024



RECONSTRUCT **BITUMINOUS** T-HANGAR TAXILANES (WEST)

SBG No: 3-17-SBGP-162 IDA No: ALN-4840

Contract No. SR094

| NO. | DATE | DES | CRIPT | ION |
|---------------------------|----------|--------|---------|-----|
| NO. | DATE | DES | DWN | REV |
| ISSUE: | FEBRU/ | ARY 26 | 5, 2021 | |
| PROJEC | CT NO: 2 | 0A005 | 2 | |
| CAD FIL | E: G-00 | 2-FLF | DWG | i |
| DESIGN BY: JRH 10/12/2020 | | | | |
| DRAWN | BY: JR | H 10/ | 12/202 | 20 |

SHEET TITLE

SUMMARY OF **QUANTITIES AND INDEX TO SHEETS**

REVIEWED BY: BSS 11/09/2020

UTILITY NOTE

THE LOCATION, SIZE, AND TYPE OF MATERIAL OF EXISTING UNDERGROUND AND/OR ABOVEGROUND UTILITIES INDICATED ON THE PLANS ARE NOT REPRESENTED AS BEING ACCURATE, SUFFICIENT OR COMPLETE. NEITHER THE OWNER NOR THE ENGINEER ASSUMES ANY RESPONSIBILITY WHATSOEVER IN RESPECT TO THE ACCURACY, COMPLETENESS, OR SUFFICIENCY OF THE INFORMATION. THERE IS NO GUARANTEE, EITHER EXPRESSED OR IMPLIED, THAT THE LOCATIONS, SIZE AND TYPE OF MATERIAL OF EXISTING UNDERGROUND UTILITIES INDICATED ARE REPRESENTATIVE OF THOSE TO BE ENCOUNTERED IN THE CONSTRUCTION. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE ACTUAL LOCATION OF ALL SUCH FACILITIES, INCLUDING SERVICE CONNECTIONS TO UNDERGROUND UTILITIES.

PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANIES OF ITS OPERATIONAL PLANS AND SHALL OBTAIN FROM THE RESPECTIVE UTILITY COMPANIES DETAILED INFORMATION AND ASSISTANCE RELATIVE TO THE LOCATION OF THEIR FACILITIES AND THE WORKING SCHEDULE OF THE COMPANIES FOR REMOVAL OR ADJUSTMENT WHERE REQUIRED. IN THE EVENT AN UNEXPECTED UTILITY INTERFERENCE IS ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE UTILITY COMPANY OF JURISDICTION. THE OWNER'S REPRESENTATIVE AND THE RESIDENT ENGINEER/TECHNICIAN SHALL ALSO BE IMMEDIATELY NOTIFIED. ANY DAMAGE TO SUCH MAINS AND SERVICES SHALL BE RESTORED TO SERVICE AT ONCE AND PAID FOR BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE CONTRACT. ALL UTILITY CABLES AND LINES SHALL BE LOCATED BY THE RESPECTIVE UTILITY. CONTACT JULIE (JOINT UTILITY LOCATION INFORMATION FOR EXCAVATORS) FOR UTILITY INFORMATION, PHONE: 1-800-892-0123. CONTACT THE FAA (FEDERAL AVIATION ADMINISTRATION) FOR ASSISTANCE IN LOCATING FAA CABLES AND UTILITIES. LOCATION OF FAA POWER, CONTROL, AND COMMUNICATION CABLES SHALL BE COORDINATED WITH AND LOCATED BY THE FAA. ALSO CONTACT AIRPORT MANAGER AND AIRPORT PERSONNEL FOR ASSISTANCE IN LOCATING UNDERGROUND AIRPORT CABLES AND UTILITIES. ALSO COORDINATE WORK WITH ALL ABOVEGROUND UTILITIES.

J.U.L.I.E. INFORMATION

COUNTY_____MADISON
CITY_____BETHALTO
TOWNSHIP___ALTON - WOODRIVER
SECTION NO.___12 & 13
ADDRESS____ST. LOUIS REGIONAL AIRPO

__12 & 13 _ST. LOUIS REGIONAL AIRPORT 8 TERMINAL DRIVE EAST ALTON, ILLINOIS 62024



BORROW DIRT

AVAILARLE IN

STOCKPILES

700

| | CONTROL POINT DATA | | | | | |
|-----|--------------------|-------------|--------------|--------|--|--|
| NO. | DESCRIPTION | NORHTING | EASTING | ELEV. | | |
| Α | NGS PID: DE9194 | 807957.7682 | 2327467.5892 | 538.56 | | |
| В | NGS PID: DE9195 | 806986.8378 | 2327683.0281 | 534.78 | | |
| С | NAIL | 810873.4520 | 2327659.2330 | 538.20 | | |
| D | NAIL | 810348.2990 | 2327236.8680 | 536.53 | | |
| E | NAIL | 810432.4890 | 2327974.7950 | 538.70 | | |

<u>SURVEY NOTES</u>

I. ALL COORDINATE VALUES SHOWN IN TABLE ARE BASED ON ILLINOIS STATE PLANE – WEST ZONE NAD-83 (2007).

2. REFER TO IDOT STANDARD SPECIFICATIONS 50-06, CONSTRUCTION LAYOUT STAKES, FOR ADDITIONAL INFORMATION.

GENERAL NOTES

RECONSTRUCT BITUMINOUS

(ADDITIVE ALTERNATE BID)

A YWT

TWY B1

TWY B3

@ 0 @

T-HANGAR TAXILANES (WEST)

- RECONSTRUCT BITUMINOUS

(RASE RID)

T-HANGAR TAXILANES (WEST)

~;_;_;;_;;

HALF SIZE SCALE: 1"= 1000' FULL SIZE SCALE: 1"= 500'

BUCHTA ROAD

- THE SCOPE OF WORK SHEET IS INTENDED ONLY AS A GENERAL DESCRIPTION OF WORK ITEMS AND THEIR APPROXIMATE LOCATIONS AND LIMITS, FOR THE PURPOSE OF UNDERSTANDING THE SCOPE OF THE PROJECT. THIS SHEET SHALL NOT BE USED AS A CONSTRUCTION PLAN. REFER TO THE FOLLOWING PLAN SHEETS FOR DETAILED CONSTRUCTION REQUIREMENTS, LOCATIONS, AND ITEMS OF WORK.
- THIS PROJECT CONSISTS OF RECONSTRUCTING THE BITUMINOUS T-HANGAR
 TAXILANE PAVEMENTS NEAR THE NORTHWEST AREA OF THE MAIN RAMP. THIS
 PROJECT WILL INCLUDE EARTHWORK, PAVEMENT MILLING, PAVEMENT REMOVAL AND
 PLACEMENT. DRAINAGE AND PAVEMENT MARKING.
- THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIAL, EQUIPMENT, AND TRANSPORTATION NECESSARY TO CONSTRUCT ALL ELEMENTS OF THE PROJECT AS DESCRIBED IN THE CONSTRUCTION PLANS AND SPECIFICATIONS.
- 4. THE RULES, REGULATIONS, AND SPECIFICATIONS ENUMERATED HEREIN SHALL BE CONSIDERED AS MINIMUM REQUIREMENTS. THEY SHALL NOT PROHIBIT THE CONTRACTOR FROM FURNISHING AND INSTALLING HIGHER GRADES OF MATERIAL THAN ARE SPECIFIED HEREIN.
- 5. THE CONTRACTOR IS NOT PERMITTED TO USE THE AIRPORT ENTRANCE DRIVE AND AUTO PARKING LOT FOR MATERIAL AND EQUIPMENT HAULING OR STORAGE. THE CONSTRUCTION ENTRANCE AS SHOWN ON THE PROPOSED SAFETY AND PHASING PLAN WILL BE THE PRIMARY ACCESS TO THE PROPOSED CONSTRUCTION SITE. ALL HAULING OF MATERIALS AND EQUIPMENT SHALL BE RESTRICTED TO THE DESIGNATED CONSTRUCTION ENTRANCE.
- 6. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT, PRESERVE AND REPAIR THE EXISTING AIRFIELD AND ROADWAY PAVEMENTS AT ALL TIMES. THE CONTRACTOR SHALL REPAIR ANY DAMAGE TO EXISTING ELECTRICAL, DRAINAGE, AND PAVEMENT STRUCTURES AT NO ADDITIONAL COST TO THE CONTRACT. ANY DAMAGE TO FAA CABLES, ACCESS ROADS OR TO FAA FACILITIES DURING CONSTRUCTION WILL REQUIRE THE CONTRACTOR TO REPLACE THE DAMAGED CABLES, ACCESS ROAD OR FAA FACILITIES TO FAA REQUIREMENTS AT THE CONTRACTOR'S EXPENSE. SPLICING OF CABLES IS NOT AN ACCEPTABLE FORM OF REPAIR.
- NO EQUIPMENT SHALL BE PERMITTED TO CROSS OR USE ANY EXISTING PAVEMENT OUTSIDE THE CONSTRUCTION LIMITS, GENERAL PROJECT AREA OR HAUL ROUTE.
- CONTRACTOR IS REQUIRED TO PROVIDE THEIR OWN RESTROOM FACILITIES.
- UNLESS OTHERWISE NOTED, ALL DISTURBED AREAS OUTSIDE OF THE PROPOSED CONSTRUCTION LIMITS SHALL BE GRADED, SEEDED AND/OR HYDROMULCH SEEDED AT NO ADDITIONAL COST TO THE CONTRACT
- 10. ALL WASTE MATERIAL SHALL BE HAULED FROM THE AIRPORT AND PROPERLY DISPOSED OF UNLESS OTHERWISE SPECIFIED HEREIN.
- 11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING PERMITS FOR HAULING ON PUBLIC ROADS, AS APPLICABLE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECTING ANY DAMAGES TO ANY PAVEMENTS (PUBLIC OR PRIVATE) CAUSED BY HIS/HER CONSTRUCTION EQUIPMENT OR PERSONNEL.
- THE OWNER SHALL HAVE THE RIGHT OF FIRST REFUSAL FOR ALL SALVAGEABLE MATERIAL REMOVED ON THE PROJECT.
- THE CONTRACTOR SHALL COORDINATE WITH THE RESIDENT ENGINEER/TECHNICIAN SO THEY MAY DEVELOP ONE SET OF REDLINED AS—BUILT DRAWINGS AT THE COMPLETION OF THE PROJECT.
- 14. CONTRACTOR SHALL NOTE THAT ALL AREAS WITHIN THE AIRPORT PROPERTY LINE AND OUTSIDE THE CONSTRUCTION LIMITS MAY BE USED FOR AGRICULTURAL PURPOSES. THE CONSTRUCTION LIMITS SHALL BE RESTRICTED TO AREAS THAT ARE ABSOLUTELY NECESSARY TO DISTURB TO COMPLETE THE REQUIRED WORK ITEMS. LIMITS SHALL BE COORDINATED WITH THE RESIDENT ENGINEER/TECHNICIAN PRIOR TO BEGINNING ANY WORK. ALL AREAS WHICH HAVE BEEN FARMED AND OR DESIGNATED TO BE FARMED AFTER THE PROJECT COMPLETION, AND HAVE BEEN DISTURBED BY CONSTRUCTION ACTIVITY, SHALL BE CHISEL PLOWED (36" MAX.) OR OTHERWISE SCARIFIED TO RETURN THE AREA TO A REASONABLE TILLABLE CONDITION (IF SO PERMITTED BY THE AIRPORT MANAGER.)
- 15. CONTRACTOR SHALL RESTORE TO ORIGINAL CONDITION ALL GRASS, STONE, OR PAVEMENT DISTURBED BY CONTRACTOR'S CONSTRUCTION OPERATIONS, STACING, AND CONSTRUCTION ACCESS ROUTES. DISTURBED AREAS TO BE REPAIRED, GRADED, AND SEEDED AND MULCHED UNLESS OTHERWISE NOTED. STAGING AREA AND SITE ACCESS RESTORATION SHALL BE INCLUDED IN THE COST OF THE HAUL ROUTE.
- 16. THE PROJECT PAY ITEMS ARE INTENDED TO BE INCLUSIVE OF ALL WORK TO BE PERFORMED AS SHOWN IN THESE PLANS. ALL INCIDENTAL WORK REQUIRED TO COMPLETE THE PROJECT TO THE SATISFACTION OF THE RESIDENT ENGINEER/TECHNICIAN IS TO BE INCLUDED IN THE COSTS OF PERFORMING THESE ITEMS.
- 17. APPROXIMATE LOCATIONS OF UNDERGROUND UTILITIES ARE SHOWN THROUGHOUT THESE PLANS. THE CONTRACTOR SHALL DETERMINE EXACT LOCATIONS AND PROTECT THESE UTILITIES DURING CONSTRUCTION. ANY UTILITIES DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE. CONTRACTOR SHALL COORDINATE WITH THE PROPER PERSONS FOR THE PURPOSE OF LOCATING AND PROTECTING EXISTING UNDERGROUND UTILITIES.
- THE CONTRACTOR MUST AT ALL TIMES MAINTAIN PROPER DRAINAGE FOR ALL AREAS AFFECTED BY HIS WORK.



Offices Nationwide www.hanson-inc.com

Hanson Professional Services Inc. 1525 S. 6th Street Springfield, IL 62703 phone: 217-788-2450 fax: 217-788-2503

Illinois Licensed Professional Service Corporation #184-001084



ST. LOUIS REGIONAL AIRPORT AUTHORITY

ST. LOUIS REGIONAL AIRPORT 8 TERMINAL DRIVE EAST ALTON. ILLINOIS 62024



RECONSTRUCT BITUMINOUS T-HANGAR TAXILANES (WEST)

SBG No: 3-17-SBGP-162 IDA No: ALN-4840

Contract No. SR094

| NO. | DATE | DESCRIPTION | | |
|---------|----------|-------------|---------|-----|
| INO. | DATE | DES | DWN | REV |
| ISSUE: | FEBRUA | ARY 26 | 3, 2021 | |
| PROJEC | CT NO: 2 | 0A005 | 2 | |
| CAD FIL | E: G-00 |)3-SO | W.DW | G |
| DESIGN | BY: JF | RH 09 | /30/202 | 20 |
| DRAWN | BY: JR | H 09/ | 30/202 | 20 |
| REVIEW | /ED BY: | BSS 1 | 1/09/20 | 020 |

SCOPE OF WORK

SHEET TITLE

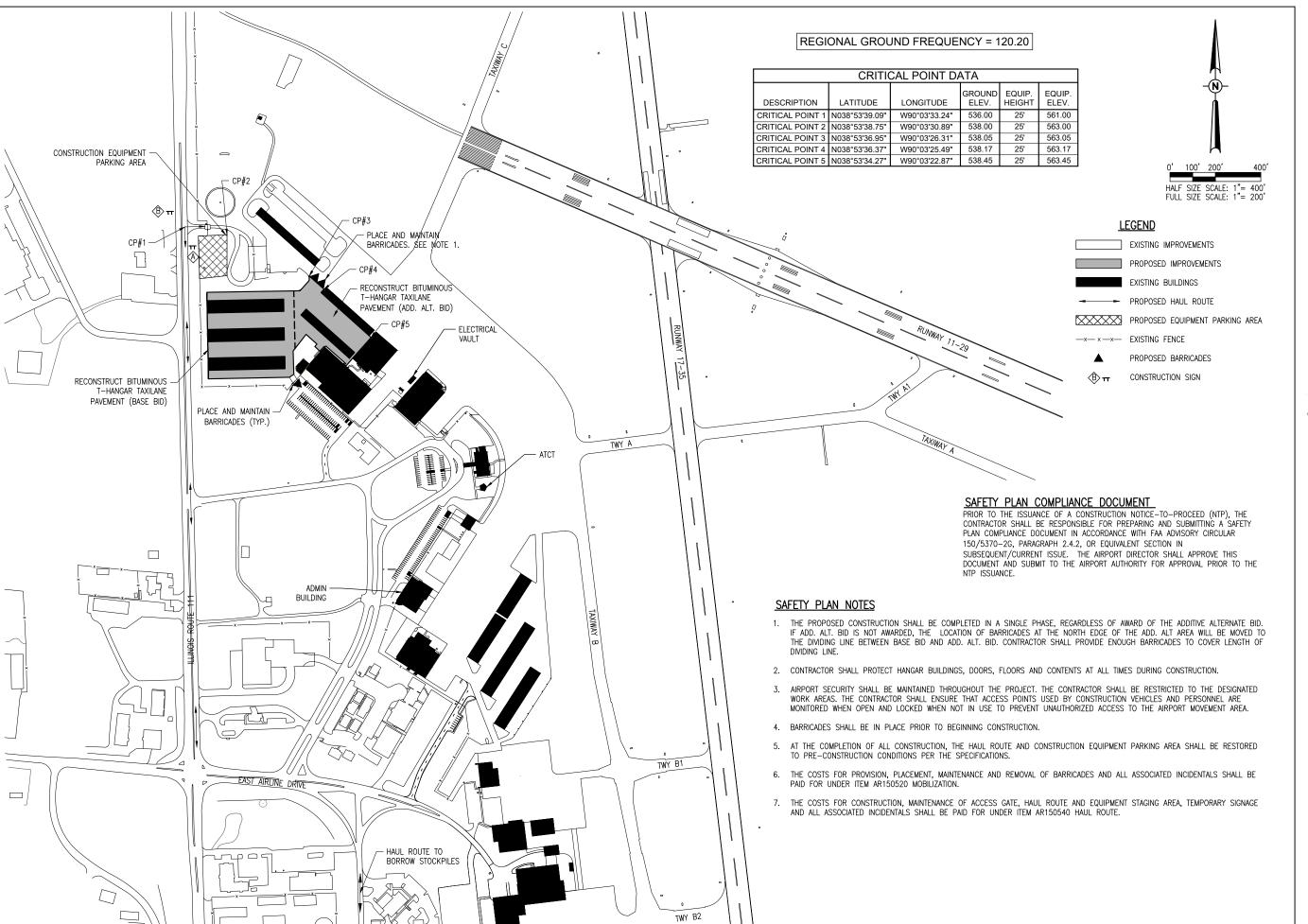
<u>LEGEND</u>

EXISTING IMPROVEMENTS

EXISTING BUILDINGS

PROPOSED IMPROVEMENTS

3



HANSON Engineering | Planning | Aillied Service

> Offices Nationwide www.hanson-inc.com

Hanson Professional Services Inc. 1525 S. 6th Street Springfield, IL 62703 phone: 217-788-2450 fax: 217-788-2503

Illinois Licensed
Professional Service Corporation
#184-001084



ST. LOUIS REGIONAL AIRPORT AUTHORITY

ST. LOUIS REGIONAL AIRPORT 8 TERMINAL DRIVE EAST ALTON, ILLINOIS 62024



RECONSTRUCT BITUMINOUS T-HANGAR TAXILANES (WEST)

SBG No: 3-17-SBGP-162 IDA No: ALN-4840

Contract No. SR094

| NO. | DATE | DES | CRIPT | ION |
|---------|----------|--------|---------|-----|
| INO. | DAIL | DES | DWN | REV |
| ISSUE: | FEBRU/ | ARY 26 | 5, 2021 | |
| PROJEC | CT NO: 2 | 0A005 | 2 | |
| CAD FIL | E: G-00 |)4-SF\ | /.DWG | - |
| DESIGN | BY: JF | RH 09 | /30/20: | 20 |
| DRAWN | BY: JR | H 09/ | 30/202 | 20 |
| REVIEW | /ED BY: | BSS 1 | 1/09/20 | 020 |

PROPOSED SAFETY PLAN

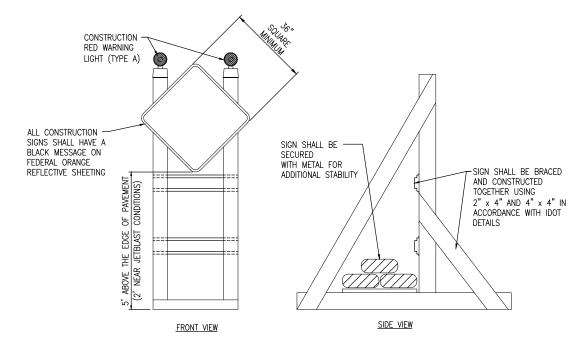




CONSTRUCTION SIGNS NOT TO SCALE

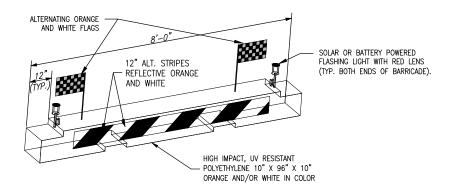
BARRICADE NOTES

- 1. ALL CONSTRUCTION SIGNS AND TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES INCLUDING THE ILLINOIS SUPPLEMENT (LATEST EDITION) AND THE FAA ADVISORY CIRCULARS (LATEST EDITION) UNLESS NOTED OTHERWISE. THE FAA OR MORE STRINGENT
- 2. BARRICADES SHALL BE "LOW-PROFILE" WITH A MAXIMUM HEIGHT OF 18" ABOVE GROUND, EXCLUSIVE OF ASSOCIATED WARNING LIGHTS AND FLAGS
- BARRICADES SHALL BE SPACED END TO END THE WIDTH OF THE PAVEMENT, WITH GAPS BETWEEN BARRICADES NOT TO EXCEED 4' WIDE. BARRICADES ARE TO BE PLACED AS SHOWN ON THE PLANS.
- 4. CONSTRUCTION RED WARNING LIGHT: THESE ARE PORTABLE, LENS DIRECTED, ENCLOSED LIGHTS. THE COLOR OF THE LIGHT EMITTED SHALL BE RED. THEY MAY BE USED IN EITHER A STEADY BURN (TYPE C) OR LOW INTENSITY FLASHING MODE (TYPE A) UNLESS NOTED OTHERWISE
- 5. THE LIGHTING SHALL BE MAINTAINED IN OPERATION DURING THE HOURS OF DARKNESS BETWEEN 1/2 HOUR BEFORE SUNSET AND 1/2 HOUR AFTER SUNRISE AND WHEN CONDITIONS EXIST WHICH TEND TO OBSCURE VISION
- BARRICADES SHALL BE SECURED TO THE GROUND BY APPROVED METHODS TO PREVENT MOVEMENT BY PROP WASH, JET BLAST OR OTHER WIND CURRENTS.
- THE ONLY COLOR COMBINATION ON BARRICADES IS ORANGE AND WHITE. THE ORANGE STRIPES SHALL BE ENCAPSULATED LENS REFLECTIVE SHEETING. THE WHITE STRIPES SHALL BE EITHER ENCAPSULATED OR ENCLOSED LENS REFLECTIVE SHEETING AND MUST BE IN ACCEPTABLE CONDITION.
- 8. COST FOR PROVIDING, PLACING, MAINTAINING, AND REMOVING BARRICADES SHALL BE INCLUDED IN THE COST OF THE OTHER CONTRACT ITEMS.



SIGNAGE NOTES

- ALL CONSTRUCTION SIGNS AND TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES INCLUDING THE ILLINOIS SUPPLEMENT (LATEST EDITION) AND THE FAA ADVISORY CIRCULARS (LATEST EDITION) UNLESS NOTED OTHERWISE. THE FAA OR MORE STRINGENT
- UNLESS OTHERWISE SPECIFIED. CONSTRUCTION SIGNS SHALL BE MOUNTED ON PORTABLE OR NON-PORTABLE SUPPORTS. A PORTABLE SUPPORT IS DEFINED AS A TYPICAL SIGN STANDARD AS SHOWN ON THIS SHEET, OR A SMALL LIGHT WEIGHT TRAILER. A NON-PORTABLE SUPPORT IS DEFINED AS DRIVEN METAL OR WOOD POST. ALL SIGNS, REGARDLESS OF THE TYPE OF SUPPORTS USED, SHALL BE MOUNTED SUCH THAT THE MESSAGE ON THE SIGN IS LEVEL IN THE HORIZONTAL PLANE AFTER PLACEMENT. THE COST OF CONSTRUCTION WARNING LIGHTS SHALL BE INCLUDED IN THE COST OF THE CONSTRUCTION
- CONSTRUCTION RED WARNING LIGHT: THESE ARE PORTABLE, LENS DIRECTED, ENCLOSED LIGHTS. THE COLOR OF THE LIGHT EMITTED SHALL BE RED. THEY ARE TO BE USED IN A LOW INTENSITY FLASHING
- THE LIGHTING SHALL BE MAINTAINED IN OPERATION DURING THE HOURS OF DARKNESS BETWEEN 1/2 HOUR AFTER SUNSET AND 1/2 HOUR BEFORE SUNRISE AND WHEN CONDITIONS EXIST WHICH TEND TO
- COST FOR PROVIDING, PLACING, MAINTAINING, AND REMOVING SIGNS SHALL BE INCLUDED IN ITEM AR150540 HAUL ROUTE.



LOW-PROFILE BARRICADE DETAIL

DETAIL ABOVE REPRESENTS ONE OPTION FOR LOW-PROFILE BARRICADES. OTHER OPTIONS MAY BE UTILIZED AS LONG AS THEY MEET THE REQUIREMENTS OF THE PROJECT, INCLUDING BARRICADE NOTE 1.

SAFETY NOTES

- FOLLOWING ARE THE CONSTRUCTION SAFETY PROCEDURES THAT THE CONTRACTOR SHALL FOLLOW THROUGHOUT THIS PROJECT. ADDITIONAL REQUIREMENTS ARE SHOWN ON THE CONSTRUCTION SAFETY AND PHASING PLAN SHEET AND THIS SHEET.
- 2. ALL PROVISIONS OF THE LATEST EDITION OF FAA ADVISORY CIRCULAR AC 150/5370-2 (CURRENT EDITION), "OPERATIONAL SAFETY ON AIRPORTS DURING CONSTRUCTION", APPLY TO THIS CONTRACT, EXCEPT AS MODIFIED BY THIS SAFETY PLAN, OR AS MODIFIED BY THE OWNER THROUGH THE RESIDENT ENGINEER/TECHNICIAN AT THE PRECONSTRUCTION CONFERENCE, OR DURING THE COURSE OF THE CONTRACT
- 3. THE CONTRACTORS SHALL MINIMIZE DISRUPTION OF STANDARD OPERATING PROCEDURES FOR AERONAUTICAL ACTIVITY BY REMAINING WITHIN THE PRESCRIBED STAGING, CONSTRUCTION, AND PHASING AREAS PRESENTED ON THE CONSTRUCTION
- 4. NO UNAUTHORIZED PERSONNEL SHALL ENTER ANY AREA OF THE AIRPORT THAT COULD POTENTIALLY BE HAZARDOUS. THE AIRPORT MANAGER RESERVES THE RIGHT TO SUSPEND OPERATIONS IN ORDER TO MAINTAIN SAFETY AT THE AIRPORT.
- CONTRACTOR EQUIPMENT, VEHICLES, AND PROJECT MATERIALS SHALL BE STORED IN THE EQUIPMENT PARKING/STAGING AREA SHOWN ON THE PLAN VIEW, EXCEPT AS OTHERWISE PROVIDED FOR AT THE PRECONSTRUCTION CONFERENCE.
- 6. ALL CONSTRUCTION EQUIPMENT OPERATING IN THE PRESCRIBED CONSTRUCTION AREA IS REQUIRED TO DISPLAY A CHECKERBOARD FLAG PROPERLY LOCATED OR A ROTATING BEACON (STROBE) AS SPECIFIED IN AC 150/5210-5, "PAINTING, MARKING, AND LIGHTING OF VEHICLES USED ON AN AIRPORT" LATEST EDITION.
- 7. NO CONSTRUCTION MATERIAL STOCKPILES SHALL BE LOCATED WITHIN 250' OF ANY ACTIVE RUNWAY, WITHIN 93' OF ANY OTHER ACTIVE AIRPORT OPERATIONS AREA, OR PENETRATE A PART 77 IMAGINARY SURFACE (PROVIDED BY THE RESIDENT ENGINEER/TECHNICIAN) EXTENDING OUT AND UPWARDS FROM ALL SIDES OF AN ACTIVE RUNWAY
- 8. CLOSED AIRFIELD PHASING AREAS, OPEN TRENCHES, AND STOCKPILED MATERIALS AT THE CONSTRUCTION SITE SHALL BE PROMINENTLY MARKED WITH LIGHTED BARRICADES WITH STEADY BURNING OR FLASHING RED LIGHTS AS SPECIFIED IN 150/5370-2, "OPERATIONAL SAFETY ON AIRPORT DURING CONSTRUCTION, LATEST EDITION. LIGHTED BARRICADES MUST BE NO TALLER THAN 18" (EXCLUSIVE OF SUPPLEMENTARY LIGHTS AND FLAGS) ON THE TAXIWAYS AND COMPLY WITH ADVISORY CIRCULAR 150/5370-2. LATEST EDITION. CONTRACTOR SHALL NIGHT CHECK BARRICADES DAILY FOR PROPER OPERATION.
- NO OPEN TRENCHES WITHIN 250' OF AN ACTIVE RUNWAY CENTERLINE OR WITHIN 93' OF ANY AIRPORT OPERATIONS AREA WILL BE PERMITTED UNLESS PROPERLY MARKED. OTHER TRENCHES SHALL BE MAINTAINED SAFE, I.E., BARRICADED OR COVERED WITH STEEL PLATES IN ALL OTHER AREAS.
- 10. OPEN TRENCHES, EXCAVATIONS, AND STOCKPILED MATERIALS AT THE CONSTRUCTION SITE SHOULD BE PROMINENTLY MARKED WITH ORANGE FLAGS AND LIGHTED WITH FLASHING RED LIGHTS DURING HOURS OF RESTRICTED VISIBILITY AND/OR
- 11. NO CONSTRUCTION EQUIPMENT GREATER THAN 25' TALL WILL BE PERMITTED ON THE AIRPORT, HOWEVER OTHER EQUIPMENT TALLER THAN 25' MAY BE PERMITTED WITH THE APPROVAL OF THE AIRPORT MANAGER AND AIRSPACE APPROVAL BY THE
- 12. NO OPEN FLAME WELDING OR TORCH CUTTING OPERATION IS PERMITTED UNLESS ADEQUATE FIRE AND SAFETY PRECAUTIONS ARE PROVIDED AND HAVE BEEN APPROVED BY THE AIRPORT MANAGER NO FLARE POTS ARE ALLOWED ON THE PROJECT.
- 13. SOIL, DEBRIS, AND LOOSE MATERIAL DROPPED OR TRUCKED ONTO AIRPORT ROADS, TAXIWAYS, AND SOD SURFACES, OR WHICH CAN BE BLOWN ONTO SUCH SURFACES, SHALL BE IMMEDIATELY SWEPT, PICKED UP AND REMOVED, OR PLACED INTO CLOSED CONTAINERS. ANY DAMAGE TO AIRPORT PROPERTY SHALL BE REPAIRED IMMEDIATELY AT NO COST TO THE OWNER.
- 14. EACH CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND MAINTAINING AIRPORT LIGHTING AND NAVIGATIONAL ELECTRICAL SYSTEMS DURING CONSTRUCTION. A CONTACT PERSON AND TELEPHONE NUMBER FOR 24 HOUR EMERGENCY IMMEDIATE REPAIR SHALL BE SUBMITTED TO THE AIRPORT MANAGER AND RESIDENT ENGINEER/TECHNICIAN HAUL ROLLTES CROSSING PAVEMENT, DRAINAGE, MISCELLANEOUS. STRUCTURES AND/OR AIRFIELD CABLES SHALL BE PROTECTED FROM
- 15. ALL AIRCRAFT AND AIRPORT OPERATIONS HAVE THE RIGHT-OF-WAY. CONTRACTOR TO YIELD TO VEHICLES AND REMAIN CLEAR AT ALL TIMES.
- 16. CONTRACTOR SHALL PLACE, SECURE, AND MAINTAIN LIGHTED BARRICADES AND CLOSURE CROSSES WHEN A RUNWAY/TAXIWAY/APRON IS CLOSED OR AS REQUIRED BY THE PLANS AND DESIGNATED BY THE RESIDENT
- 17. CONTRACTOR SHALL MARK HAZARDOUS AREA WITH STEADY-BURNING OR FLASHING RED LIGHTS DURING PERIODS OF LOW
- 18. THE CONTRACTOR SHALL PERIODICALLY PERFORM ONSITE INSPECTIONS THROUGHOUT THE DURATION OF THE PROJECT WITH THE IMMEDIATE REMEDY OF ANY DIFFERENCES, WHETHER CAUSED BY NEGLIGENCE, OVERSIGHT, OR PROJECT SCOPE
- 19. CONTRACTOR SHALL MOVE MAINTENANCE OF TRAFFIC COMPONENTS AT THE WRITTEN DIRECTION OF THE RESIDENT ENGINEER/TECHNICIAN AT NO ADDITIONAL COST.
- 20. CONTRACTOR SHALL NOT REMOVE THE BARRICADES WITHOUT THE APPROVAL BY THE RESIDENT ENGINEER/TECHNICIAN
- 21. CONTRACTOR SHALL MAINTAIN FLASHERS, SIGNS AND/OR BARRICADES AS REQUIRED BY THE PLANS, CITY OR COUNTY REGULATIONS OR CONTRACTOR ACTIVITIES. CONTRACTOR SHALL OBTAIN ANY AND ALL REQUIRED LOCAL PERMITS UNLESS SPECIFIED OTHERWISE.
- 22. THE CONTRACTOR SHALL UTILIZE WATER AND/OR CHEMICALS APPROVED BY THE RESIDENT ENGINEER/TECHNICIAN AS
- 23. NO CONSTRUCTION VEHICLES SHALL BE DRIVEN ACROSS ANY ACTIVE RUNWAY, INCLUDING TURF RUNWAYS. CONSTRUCTION EQUIPMENT OR CONSTRUCTION ACTIVITY WILL NOT BE PERMITTED WITHIN 250' OF ANY ACTIVE RUNWAY CENTERLINE OR WITHIN 93' OF ANY OTHER ACTIVE AIRPORT TAXIWAY OR APRON. HOWEVER, CONSTRUCTION MAY BE PERMITTED IN THESE AREAS IF THE CONTRACTOR HAS GAINED APPROVAL FROM THE AIRPORT MANAGER AT LEAST 7 DAYS IN ADVANCE OF THE SCHEDULED CONSTRUCTION PERIOD AND THE OPERATIONAL AREA IS CLOSED TO TRAFFIC AND PROPER NOTAMS ARE ISSUED BY THE AIRPORT MANAGER TO THE APPROPRIATE FLIGHT SERVICE STATION.
- 24. UNLESS SPECIFIED OTHERWISE, COST FOR THE ABOVE IS TO BE CONSIDERED INCIDENTAL TO THE PROJECT, SEPARATE PAYMENT SHALL NOT BE MADE.

www.hanson-inc.com

Hanson Professional Services Inc. 1525 S. 6th Street Springfield, IL 62703 phone: 217-788-2450 fax: 217-788-2503

Professional Service Corporation #184-001084



ST. LOUIS REGIONAL AIRPORT AUTHORITY

ST. LOUIS REGIONAL AIRPORT 8 TERMINAL DRIVE EAST ALTON, ILLINOIS 62024



RECONSTRUCT **BITUMINOUS** T-HANGAR TAXILANES (WEST)

SBG No: 3-17-SBGP-162 IDA No: ALN-4840

Contract No. SR094

DESCRIPTION NO. DATE DES DWN REV ISSUE: FEBRUARY 26, 2021 PROJECT NO: 20A0052

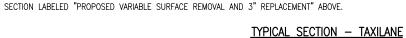
CAD FILE: G-501-SFY.DWG

DESIGN BY: JRH 10/16/2020 DRAWN BY: JRH 10/16/2020 REVIEWED BY: BSS 11/09/2020

SHEET TITLE

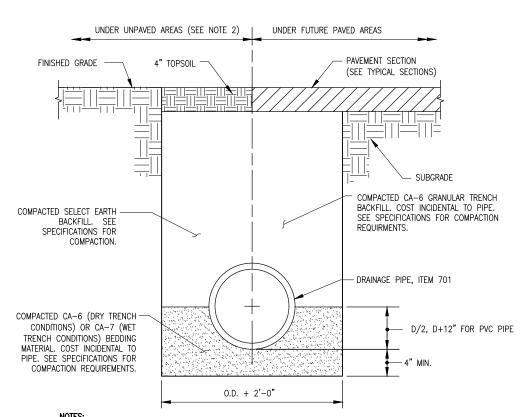
CONSTRUCTION SAFETY AND PHASING DETAILS AND NOTES

NOT TO SCALE



MATCH THE SECTION LABELED "FULL DEPTH RECONSTRUCTION" ABOVE.

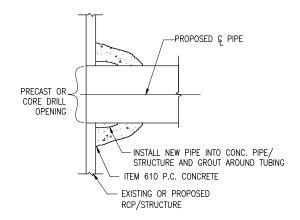
3. ALL AREAS ON THE DEMOLITION PLAN LABELED "PROPOSED VARIABLE MILLING" SHALL MATCH THE



- HUILS.
- 1. UNSUITABLE MATERIAL ENCOUNTERED DURING PLACEMENT OF BEDDING SHALL BE REMOVED AND REPLACED.
- 2. WITHIN 3 FEET OF PAVED AREA, GRANULAR BACKFILL IS TO BE USED INSTEAD OF EARTH BACKFILL
- 3. AT CONTRACTOR'S OPTION IDOT CONTROLLED LOW STRENGTH MATERIAL WITH A HIGH EARLY STRENGTH, "FLASH FILL", MAY BE USED INSTEAD OF GRANULAR TRENCH BACKFILL UNDER PAVEMENTS AT NO ADDITIONAL COST TO THE CONTRACT.

<u>PIPE TRENCH DETAIL</u>

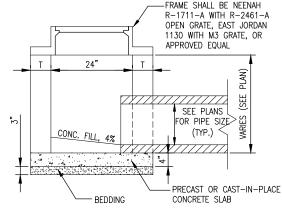
NOT TO SCALE



CONCRETE COLLAR AND GROUT CONNECTION

NOT TO SCALE

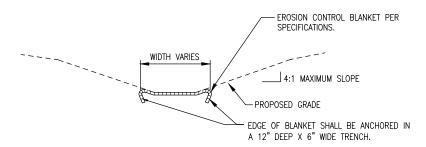
NOTE: CONNECTION IS INCIDENTAL TO PIPE.



INLET TYPE A

(IDOT STANDARD 602301) NOT TO SCALE

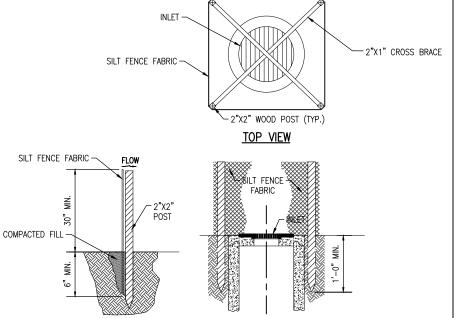
- SEE DRAINAGE AND UNDERDRAIN SCHEDULE FOR LOCATION, SIZE AND NUMBER OF PIPE CONNECTIONS.
- 2. INLETS TO BE PRECAST REINFORCED CONCRETE SECTIONS (T = 3").



NOTE: ALL EROSION CONTROL BLANKETS SHALL BE INSTALLED PER
MANUFACTURER'S RECOMMENDATIONS BASED ON THE PROPOSED TYPE
AND LIFE

TYPICAL EROSION CONTROL BLANKET

NOT TO SCALE



SUPPORT FRAME

FABRIC DROP INLET PROTECTION

NOT TO SCALE

SECTION VIEW

HANSON Engineering | Planning | Allied Service

> Offices Nationwide www.hanson-inc.com

Hanson Professional Services Inc. 1525 S. 6th Street Springfield, IL 62703 phone: 217-788-2450 fax: 217-788-2503

Illinois Licensed Professional Service Corporation #184-001084



ST. LOUIS REGIONAL AIRPORT AUTHORITY

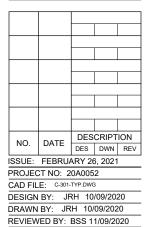
ST. LOUIS REGIONAL AIRPORT 8 TERMINAL DRIVE EAST ALTON, ILLINOIS 62024



RECONSTRUCT BITUMINOUS T-HANGAR TAXILANES (WEST)

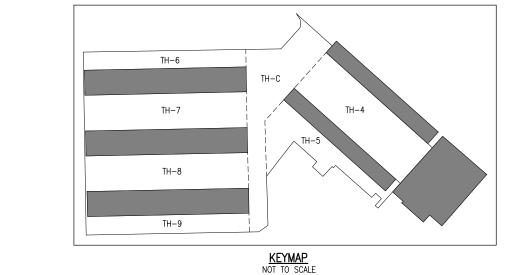
SBG No: 3-17-SBGP-162 IDA No: ALN-4840

Contract No. SR094



TYPICAL SECTIONS AND DETAILS

NOTES 1. EXISTING TAXILANE PAVEMENTS LABELED TH-6, TH-7, TH-8, TH-9 AND TH-C TO BE REMOVED/VARIABLE MILLED ARE APPROXIMATELY ±3" ASPHALT ON 6"-9" CRUSHED AGGREGATE. 2. EXISTING TAXILANE PAVEMENTS LABELED TH-4 AND TH-5 TO BE REMOVED/VARIABLE MILLED ARE APPROXIMATELY ±5"-6" ASPHALT ON 6" CRUSHED AGGREGATE. 3. ALL SAWCUTS SHALL BE MADE 1' OFFSET FROM ADJACENT HANGARS. ALL SAWCUTTING SHALL BE INCIDENTAL TO THE PROJECT. 4. MILLING EQUIPMENT SHALL BE CAPABLE OF ACCURATELY ESTABLISHING GRADES BY REFERENCING FROM EITHER THE EXISTING PAVEMENT OR FROM INDEPENDENT GRADE CONTROL. 5. ALL PROPOSED MILLINGS ARE TO BE TURNED OVER TO THE AIRPORT. LOCATION FOR THE PLACEMENT OF MILLINGS SHALL BE COORDINATED WITH THE AIRPORT MANAGER AND RESIDENT PROJECT REPRESENTATIVE. 6. UNLESS SPECIFIED OTHERWISE, ALL PAVEMENT OUTSIDE OF OF MILLING/RECONSTRUCTION LIMITS IS TO REMAIN IN PLACE. 7. CONTRACTOR SHALL PROTECT EXISTING HANGARS AND UTILITIES AT ALL TIMES DURING CONSTRUCTION ACTIVITIES. ANY EXCESS DIRT CAN BE WASTED ON AIRPORT PROPERTY AT A LOCATION TO BE COORDINATED WITH THE OWNER. 9. EXPOSE 30" RCP TO INVESTIGATE POSSIBLE DAMAGE. COORDINATE WITH THE RESIDENT ENGINEER/TECHNICIAN TO REMOVE & REPLACE UP TO 24 LF OF 30" RCP. 10. EXPOSE 24" RCP TO INVESTIGATE POSSIBLE DAMAGE. COORDINATE WITH THE RESIDENT ENGINEER/TECHNICIAN TO REMOVE & REPLACE UP TO 24 LF OF 24" RCP. PROTECT EXISTING WATERLINE DURING CONSTRUCTION. APPROXIMATE LOCATION OF SINKHOLE DUE TO POSSIBLE DAMAGED 30" RCP. (SEE NOTE 9 THIS SHEET)



DIVIDING LINE BETWEEN BASE BID AND ADD. ALT. BID. IF ONLY THE BASE BID IS AWARDED, A 10' BITUMINOUS TRANSITION

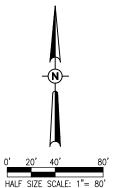
EXISTING PAVEMENT IN THE ADD. ALT. BID AREA AND PAID FOR

WEDGE WILL BE ADDED TO ACCOMMODATE GRADES TO THE

UNDER THE APPROPRIATE PAY ITEMS.

SAWCUT (INCIDENTAL)

(TYP.)



EXISTING BUILDINGS PROPOSED PAVEMENT RECONSTRUCTION PROPOSED VARIABLE MILLING

— PROPOSED STORM SEWER

LEGEND

EXISTING IMPROVEMENTS

— PROPOSED SAWCUT

St.Louis Regional ST. LOUIS REGIONAL AIRPORT AUTHORITY ST. LOUIS REGIONAL AIRPORT FULL SIZE SCALE: 1"= 40' EAST ALTON, ILLINOIS 62024 RECONSTRUCT **BITUMINOUS** T-HANGAR TAXILANES (WEST) SBG No: 3-17-SBGP-162 IDA No: ALN-4840

www.hanson-inc.com

1525 S. 6th Street Springfield, IL 62703

#184-001084

phone: 217-788-2450 fax: 217-788-2503

Hanson Professional Services Inc.

Professional Service Corporation

JAYCEN R.

HERNDON

062.069664

OF ILLINOIS

DESCRIPTION NO. DATE DES DWN REV ISSUE: FEBRUARY 26, 2021

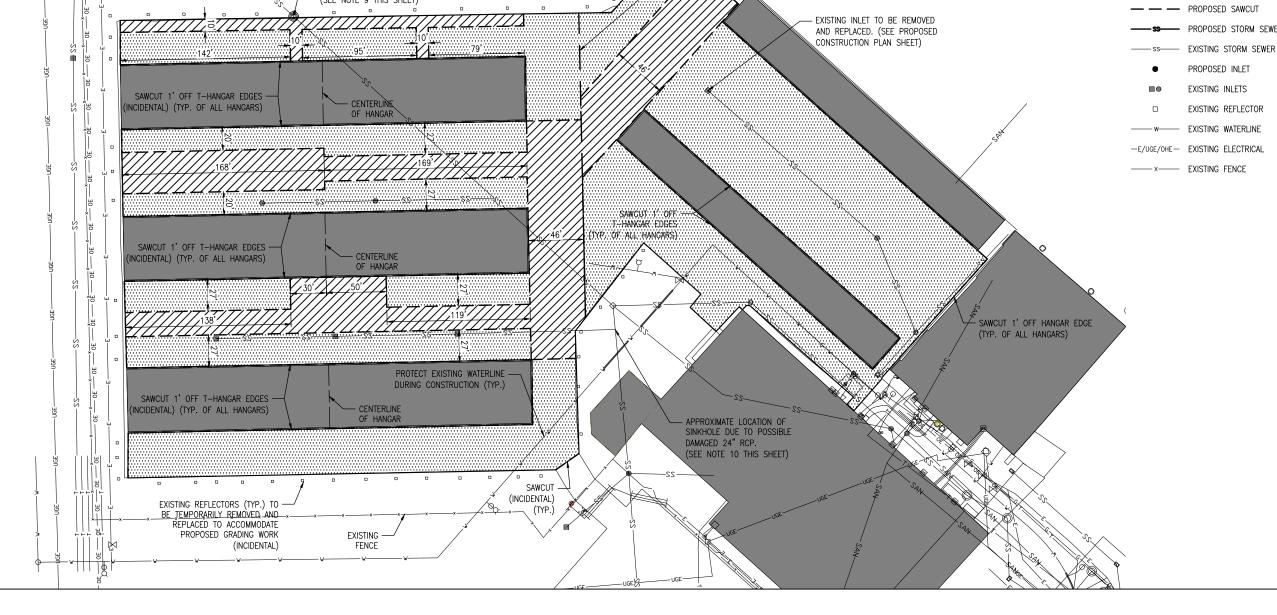
Contract No. SR094

PROJECT NO: 20A0052 CAD FILE: C-122-DEM.D

DESIGN BY: JRH 09/30/2020 DRAWN BY: JRH 09/30/2020 REVIEWED BY: BSS 11/09/2020

SHEET TITLE

PROPOSED DEMOLITION PLAN



EXISTING REFLECTOR

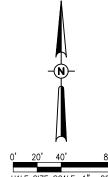
(TYP.)

| VARIABLE MILLING TABLE | | | | | |
|------------------------|---------------|---------------|-------|--|--|
| NUMBER | MAXIMUM DEPTH | MINIMUM DEPTH | COLOR | | |
| 1 | -7.00" | -6.00" | | | |
| 2 | -6.00" | -5.00" | | | |
| 3 | -5.00" | -4.00" | | | |
| 4 | -4.00" | -3.00" | | | |
| 5 | -3.00" | -2.00" | | | |
| 6 | -2.00" | -1.00" | | | |
| 7 | -1.00" | 0.00" | | | |

NOTE: THIS PLAN SHEET IS INTENDED TO BE PRINTED IN COLOR FOR BEST VISIBILITY.

NOTES:

- FOLLOWING THE PROJECT AWARD, THE ENGINEER CAN PROVIDE THE RELEVANT AUTOCAD AND CIVIL 3D SURFACE MODEL FILES TO THE AWARDED CONTRACTOR UPON REQUEST TO ASSIST WITH CONSTRUCTION LAYOUT.
- 2. AREAS WHERE THE PROPOSED MILLING DEPTH EXCEEDS THE THICKNESS OF THE EXISTING BITUMINOUS MATERIAL WILL REQUIRE REMOVAL/REGRADING OF THE EXISTING AGGREGATE BASE TO OBTAIN THE PROPOSED FINISHED PAVEMENT GRADES PER THE PLANS. ADDITIONAL REMOVAL/REGRADING OF THE AGGREGATE BASE IS INCIDENTAL TO PAY ITEM AR401901 — REMOVE BITUMINOUS SURFACE SURFACE COURSE.



HALF SIZE SCALE: 1"= 80' FULL SIZE SCALE: 1"= 40'

EXISTING IMPROVEMENTS EXISTING BUILDINGS

PROPOSED PAVEMENT RECONSTRUCTION

RECONSTRUCT BITUMINOUS T-HANGAR TAXILANES (WEST)

www.hanson-inc.com

1525 S. 6th Street Springfield, IL 62703 phone: 217-788-2450 fax: 217-788-2503

Hanson Professional Services Inc.

Professional Service Corporation #184-001084

St.Louis Regional

ST. LOUIS REGIONAL AIRPORT 8 TERMINAL DRIVE EAST ALTON, ILLINOIS 62024

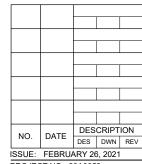
JAYCEN R.

HERNDON 062.069664

ST. LOUIS REGIONAL AIRPORT AUTHORITY

SBG No: 3-17-SBGP-162 IDA No: ALN-4840

Contract No. SR094

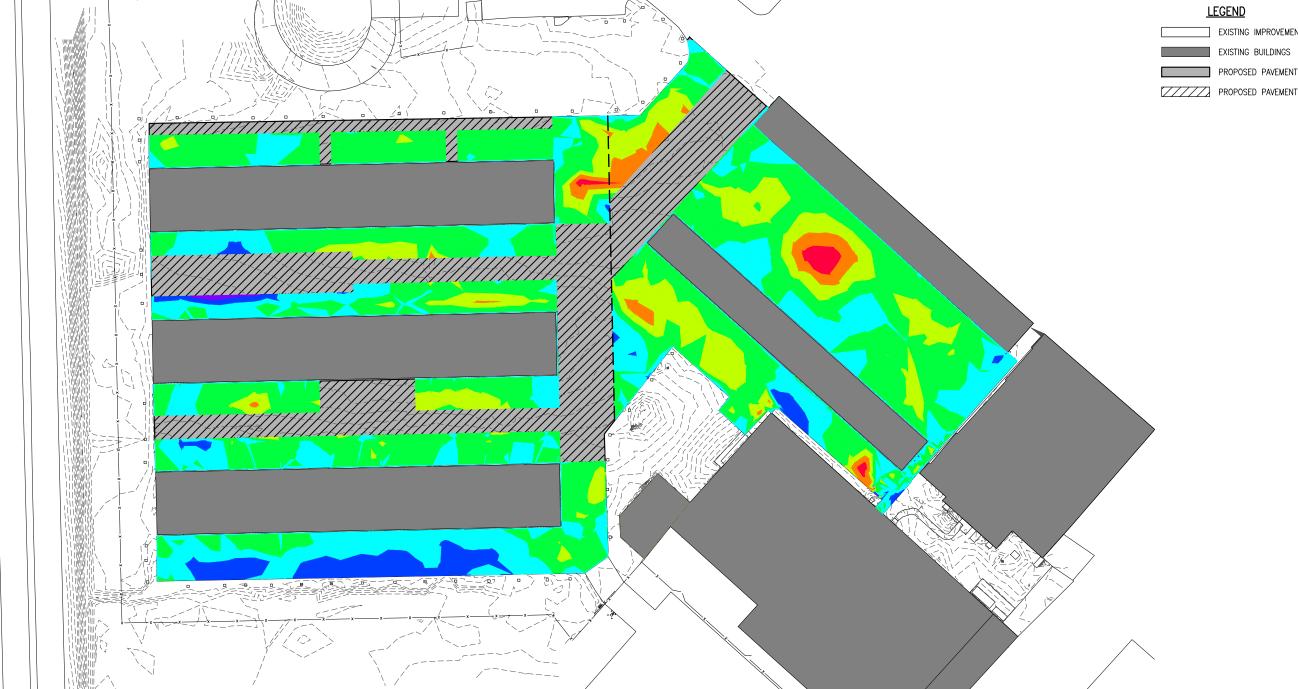


PROJECT NO: 20A0052

CAD FILE: C-192-STK.DWG DESIGN BY: JRH 09/30/2020 DRAWN BY: JRH 09/30/2020 REVIEWED BY: BSS 11/09/2020

SHEET TITLE

PROPOSED VARIABLE MILLING PLAN



| PAVEMENT GEOMETRY KEYNOTE TABLE | | | | |
|---------------------------------|-------------|--------------|-----------|--|
| POINT # | NORTHING | EASTING | ELEVATION | |
| 1 | 810901.6053 | 2327708.0787 | 538.05 | |
| 2 | 810899.3714 | 2327706.0763 | 538.05 | |
| 3 | 810880.2510 | 2327706.5780 | 538.24 | |
| 4 | 810836.3779 | 2327667.2000 | 538.41 | |
| 5 | 810829.7450 | 2327257.8230 | 536.32 | |
| 6 | 810792.8082 | 2327257.9320 | 536.68 | |
| 7 | 810799.8939 | 2327595.4952 | 538.19 | |
| 8 | 810745.9728 | 2327596.3343 | 538.06 | |
| 9 | 810738.6402 | 2327258.8487 | 536.48 | |
| 10 | 810666.2858 | 2327260.2023 | 536.33 | |
| 11 | 810673.3808 | 2327597.5278 | 537.08 | |
| 12 | 810619.2117 | 2327598.6087 | 536.90 | |
| 13 | 810612.3034 | 2327261.2264 | 536.35 | |

| PAVEMENT GEOMETRY KEYNOTE TABLE | | | | |
|---------------------------------|---------------------|--------------|-----------|--|
| POINT # | NORTHING | EASTING | ELEVATION | |
| 14 | 810540.1648 | 2327263.2085 | 536.44 | |
| 15 | 810547.1045 | 2327600.8576 | 536.43 | |
| 16 | 810493.0710 | 2327601.5170 | 536.47 | |
| 17 | 810486.0102 | 2327264.4119 | 536.48 | |
| 18 | 810448.6081 | 2327264.2812 | 535.77 | |
| 19 | 810455.3270 | 2327620.7780 | 536.82 | |
| 20 | 810468.9260 | 2327640.1280 | 536.92 | |
| 21 | 810570.9950 | 2327637.0650 | 536.06 | |
| 22 | 810644.4150 | 2327694.0240 | 537.40 | |
| 23 | 810601.7580 | 2327741.7130 | 537.41 | |
| 24 | 810590.6790 | 2327732.7000 | 537.10 | |
| 25 | 25 810570.6920 2327 | | 538.60 | |
| 26 810591.2562 | | 2327773.6103 | 538.10 | |

TYPE A TYPE A PROP TOC-535.70

PROP INV-532.79.

PROP INV-532.46-

TYPE A

PROP TOC-535.40

PROP INV-533.12

TYPE-A

INTERFACE 12"/RCP/

-INTO-EXISTING INLET EXIST TOC>535.85 PROP INV-NW-531.59 EXIST INV NE-531.42

PROP TOC-535.75

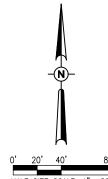
PROP INV-532:13

| | PAVEMENT GEOMETRY KEYNOTE TABLE | | | | | |
|---|---------------------------------|-------------|--------------|-----------|--|--|
| | POINT # | NORTHING | EASTING | ELEVATION | | |
|] | 27 | 810588.7950 | 2327776.2390 | 538.08 | | |
|] | 28 | 810592.3480 | 2327779.7960 | 537.89 | | |
| | 29 | 810592.0670 | 2327782.4960 | 537.92 | | |
|] | 30 | 810515.9414 | 2327868.8448 | 538.48 | | |
|] | 31 | 810509.8970 | 2327863.3620 | 538.79 | | |
| | 32 | 810504.5450 | 2327869.2070 | 538.82 | | |
|] | 33 | 810630.9499 | 2327980.3806 | 538.45 | | |
|] | 34 | 810828.5083 | 2327759.8390 | 538.27 | | |
|] | 35 | 810843.3210 | 2327773.1044 | 538.17 | | |
| | 36 | 810755.6518 | 2327694.4674 | 537.84 | | |
| | 37 | 810730.1229 | 2327671.4922 | 537.63 | | |
| | 38 | 810539.0209 | 2327884.8171 | 537.71 | | |
| | 39 | 810564.9584 | 2327907.7723 | 537.94 | | |

DIVIDING LINE BETWEEN BASE BID AND ADD. ALT. BID. IF ONLY

THE BASE IS AWARDED, A 10' BITUMINOUS TRANSITION WEDGE

WILL BE ADDED TO ACCOMMODATE GRADES TO THE EXISTING



HALF SIZE SCALE: 1"= 80' FULL SIZE SCALE: 1"= 40'

LEGEND

EXISTING BUILDINGS PROPOSED PAVEMENT

EXISTING STORM SEWER

EXISTING REFLECTOR

-E/UGE/OHE - EXISTING ELECTRICAL

EXISTING IMPROVEMENTS

- PROPOSED STORM SEWER

PROPOSED INLET

EXISTING INLETS

PROPOSED KEYNOTE

PAVEMENT IN THE ADD. ALT. BID AREA AND PAID FOR UNDER THE APPROPRIATE PAY ITEMS. REMOVE AND REPLACE EXISTING INLET PROP TOC-537.46 PROP INV-535.56 INSTALL PROPOSED INLET, TYPE A INTO EXISTING 12" RCP PROP TOC-537.44 PROP INV-535.23 — EXIST TOC-537.44 EXIST INV-534.90 EXIST TOC-536.59 EXIST INV 533.68 XIST TOC-535.72 EXIST INV-531-94 MATCH ELEVATIONS OF ALL | u 14|-15-EXISTING UTILITIES/STRUCTURES IN THIS AREA (SEE INSET ON INSTALL PROPOSED INLET, TYPE A NEXT SHEET) AND 8 LF OF 12" RCP TO 16 INTERFACE WITH EXISTING 24" RCP.
PROP TOC-537.35
PROP INV-535.23 INSTALL 66 LF OF INSTALL 66 LF OF INSTALL 66 LF OF INSTALL 66 LF OF INSTALL 108 LF O 12" RCP @ 0.5% 12"_RCP_@ 0.5% 19 PROPOSED_INLET, PROPOSED INLET, * PROPOSED INLET, * PROPOSED INLET, *

www.hanson-inc.com

Hanson Professional Services Inc. 1525 S. 6th Street Springfield, IL 62703 phone: 217-788-2450 fax: 217-788-2503

Professional Service Corporation #184-001084



ST. LOUIS REGIONAL AIRPORT AUTHORITY

ST. LOUIS REGIONAL AIRPORT 8 TERMINAL DRIVE EAST ALTON, ILLINOIS 62024



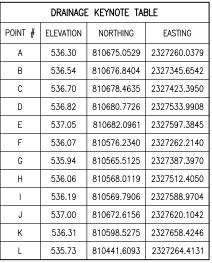
RECONSTRUCT **BITUMINOUS** T-HANGAR TAXILANES (WEST)

SBG No: 3-17-SBGP-162 IDA No: ALN-4840

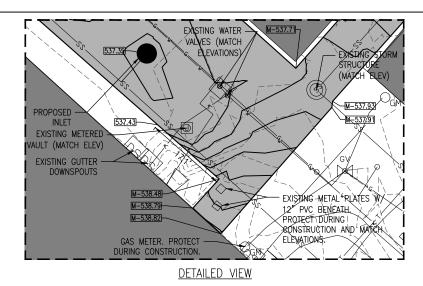
Contract No. SR094

| NO. | DATE | DESCRIPTION | | ION | | |
|-----------------------------|--------------------------|-------------|-----|-----|--|--|
| INO. | | DES | DWN | REV | | |
| ISSUE: | ISSUE: FEBRUARY 26, 2021 | | | | | |
| PROJEC | PROJECT NO: 20A0052 | | | | | |
| CAD FILE: C-121-CON.DWG | | | | | | |
| DESIGN BY: JRH 09/30/2020 | | | | | | |
| DRAWN BY: JRH 09/30/2020 | | | | | | |
| REVIEWED BY: BSS 11/09/2020 | | | | | | |

PROPOSED CONSTRUCTION PLAN

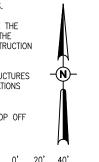


| | DRAINAGE KEYNOTE TABLE | | | | |
|---|------------------------|-----------|-------------|--------------|--|
| | POINT # | ELEVATION | NORTHING | EASTING | |
| İ | М | 535.40 | 810442.8530 | 2327330.4014 | |
| Ī | N | 535.81 | 810443.4749 | 2327363.3955 | |
| | 0 | 535.65 | 810444.0967 | 2327396.3897 | |
| | Р | 535.86 | 810444.7185 | 2327429.3838 | |
| | Q | 535.70 | 810445.3404 | 2327462.3780 | |
| | R | 535.92 | 810445.9622 | 2327495.3721 | |
| | S | 535.75 | 810446.5841 | 2327528.3662 | |
| | T | 536.04 | 810447.8278 | 2327594.3545 | |
| | U | 537.70 | 810739.9045 | 2327783.5892 | |
| | ٧ | 537.43 | 810709.8120 | 2327818.0705 | |
| | W | 537.68 | 810679.7195 | 2327852.5518 | |
| | Х | 537.35 | 810542.0821 | 2327853.7856 | |



<u>NOTES</u>

- THE LABELED ELEVATIONS ARE INTENDED TO REFLECT THE MAJOR GEOMETRIC/DRAINAGE POINTS TO OBTAIN THE PROPER GRADES.
- FOLLOWING THE PROJECT AWARD, THE ENGINEER CAN PROVIDE THE RELEVANT AUTOCAD AND CIVIL 3D SURFACE MODEL FILES TO THE AWARDED CONTRACTOR UPON REQUEST TO ASSIST WITH CONSTRUCTION LAYOUT.
- 3. UNLESS SPECIFIED OTHERWISE, ALL IN-PAVEMENT UTILITY STRUCTURES WITHIN PROJECT LIMITS WILL REMAIN AT THEIR EXISTING ELEVATIONS AND PROTECTED DURING PAVING OPERATIONS.
- 4. PROPOSED SHOULDER ADJUSTMENT SHALL ESTABLISH 1.5" DROP OFF EDGE OF PAVEMENTS. INCIDENTAL TO PAY ITEM AR152480 SHOULDER ADJUSTMENT.



HALF SIZE SCALE: 1"= 80' FULL SIZE SCALE: 1"= 40'

Contract No. SR094

IDA No: ALN-4840

T-HANGAR TAXILANES

SBG No: 3-17-SBGP-162

RECONSTRUCT

BITUMINOUS

(WEST)

www.hanson-inc.com

1525 S. 6th Street

fax: 217-788-2503

#184-001084

Springfield, IL 62703 phone: 217-788-2450

Hanson Professional Services Inc.

Professional Service Corporation

St.Louis Regional

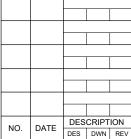
ST. LOUIS REGIONAL AIRPORT 8 TERMINAL DRIVE EAST ALTON, ILLINOIS 62024

JAYCEN R.

HERNDON

062.069664

ST. LOUIS REGIONAL AIRPORT AUTHORITY



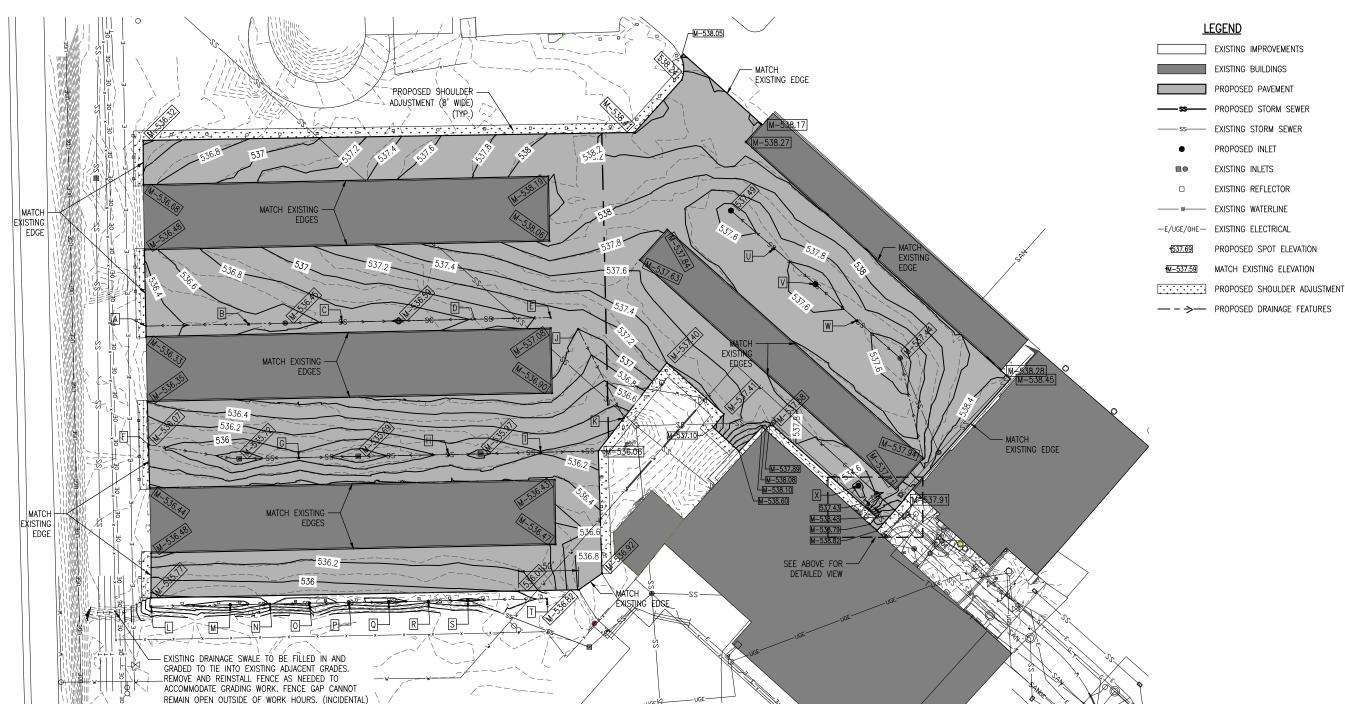
ISSUE: FEBRUARY 26, 2021 PROJECT NO: 20A0052

CAD FILE: C-191-STK.DWG
DESIGN BY: JRH 09/30/2020

DRAWN BY: JRH 09/30/2020 REVIEWED BY: BSS 11/09/2020

SHEET TITLE

PROPOSED STAKING PLAN



6" BLACK BORDER TAXILANE CENTERLINE STRIPE (YELLOW IN COLOR) TAXILANE CENTERLINE DETAIL NOT TO SCALE

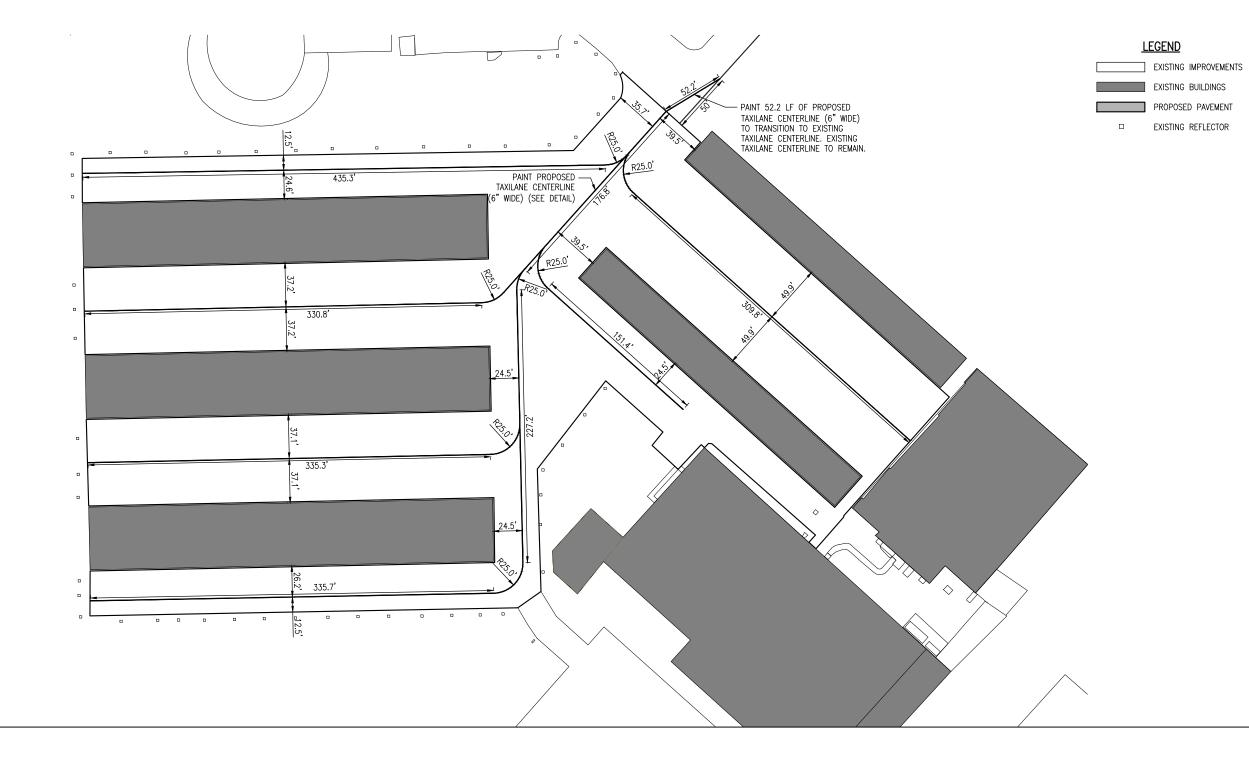
PAVEMENT MARKING NOTES

- TYPE B GLASS BEADS SHALL BE REQUIRED FOR ALL YELLOW PERMANENT PAINT MARKINGS. GLASS BEADS ARE NOT REQUIRED FOR TEMPORARY MARKINGS OR BLACK PAINT. REFER TO SPECIFICATION ITEM 620 FOR ADDITIONAL INFORMATION.
- 2. PAINT SHALL MEET REQUIREMENTS OF TECHNICAL SPECIFICATION 620, WATERBORNE PAINT.
- 3. IMMEDIATELY PRIOR TO THE APPLICATION OF PAINT, ALL SURFACES SHALL BE DRY AND FREE FROM DIRT, GREASE, OIL, LAITANCE, OR OTHER FOREIGN MATERIAL WHICH WOULD REDUCE THE BOND BETWEEN THE PAINT AND THE PAYEMENT. THIS SHALL INCLUDE PAINTED AREAS ON THE EXISTING PAYEMENTS. REFER TO SPECIFICATION ITEM 620—3.3 FOR ADDITIONAL INFORMATION.
- 4. EXISTING PAVEMENT MARKINGS OUTSIDE THE LIMITS OF THE MARKINGS SHOWN ON THE MARKING PLAN WHICH ARE REMOVED OR WORN DUE TO CONSTRUCTION ACTIVITY SHALL BE REPAINTED. NO ADDITIONAL COMPENSATION SHALL BE MADE FOR THIS WORK.
- IF THE CONTRACTOR ELECTS TO "BLOCK PAINT" THE BLACK PAINT AND THEN PAINT YELLOW OVER THE BLACK PAINT; ONLY THE VISIBLE BLACK PAINT WILL BE ELIGIBLE FOR PAYMENT.

| MARKING QUANTITIE | ES |
|----------------------|-------------------|
| YELLOW MARKING | TOTAL AREA (S.F.) |
| TAXILANE CENTERLINES | 1,291 |
| | |
| TOTAL YELLOW: | 1,291 |
| BLACK MARKING | TOTAL AREA (S.F.) |
| TAXILANE CENTERLINES | 2,567 |
| | |
| TOTAL BLACK: | 2,567 |
| TOTAL MARKING | 3,858 |



HALF SIZE SCALE: 1"= 80' FULL SIZE SCALE: 1"= 40'



HANSON Engineering | Planning | Allied Services

Offices Nationwide www.hanson-inc.com

Hanson Professional Services Inc. 1525 S. 6th Street Springfield, IL 62703 phone: 217-788-2450 fax: 217-788-2503

Illinois Licensed
Professional Service Corporation
#184-001084



ST. LOUIS REGIONAL AIRPORT AUTHORITY

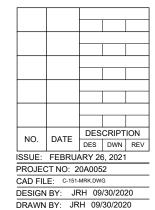
ST. LOUIS REGIONAL AIRPORT 8 TERMINAL DRIVE EAST ALTON, ILLINOIS 62024



RECONSTRUCT BITUMINOUS T-HANGAR TAXILANES (WEST)

SBG No: 3-17-SBGP-162 IDA No: ALN-4840

Contract No. SR094



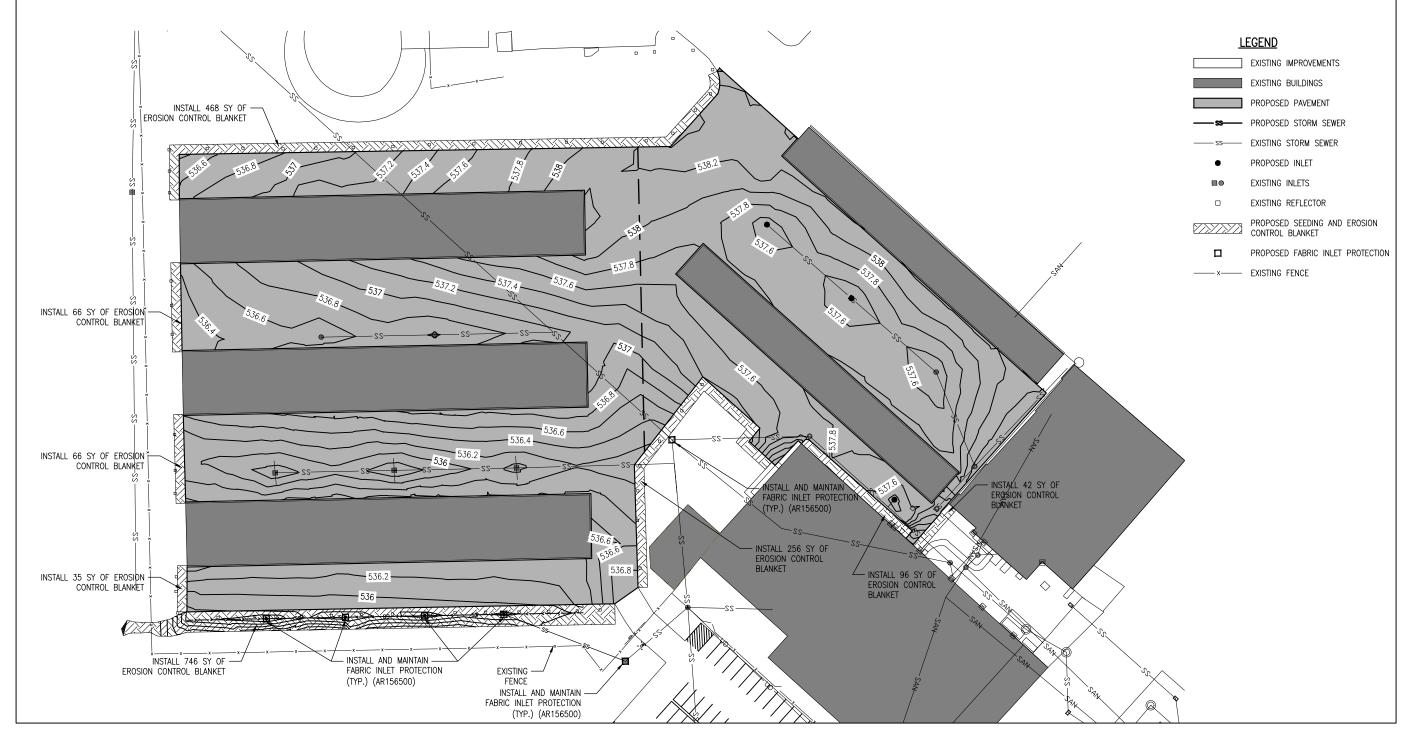
SHEET TITLE

PROPOSED MARKING PLAN

REVIEWED BY: BSS 11/09/2020

STORM WATER POLLUTION PREVENTION NOTES

- 1. THE CONTRACTOR SHALL IMPLEMENT ALL PROVISIONS OF THE CONTRACT DOCUMENTS TO ASSURE THAT STORM WATER POLLUTION PREVENTION ITEMS ARE CONSTRUCTED AND MAINTAINED IN A TIMELY MANNER. SEDIMENTATION MUST NOT BE TRANSPORTED OF
- 2. THE CONTRACTOR SHALL BE REQUIRED TO IMPLEMENT AND MAINTAIN STORM WATER POLLUTION PREVENTION PRACTICES AND MEASURES PRIOR TO THE STRIPPING OF EXISTING VEGETATION WHERE EVER POSSIBLE AND AS SOON AS CONSTRUCTION PERMITS IN OTHER AREAS. POLLUTION CONTROL MEASURES SHALL BE IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, INCLUDING THESE CONSTRUCTION PLANS, AND WITH STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, ILLINOIS ENVIRONMENTAL PROTECTION AGENCY, CURRENT ISSUE. THE CONTRACTOR SHALL ADJUST HIS OPERATIONS AND IMPLEMENT POLLUTION CONTROL MEASURES SO THAT NO RUNOFF FROM STRIPPED AREAS WILL LEAVE THE CONSTRUCTION SITE OTHER THAN THROUGH SEDIMENT TRAPS OR OTHER SUITABLE CONTROL MEASURES
- 3. POLLUTION CONTROL ITEMS SHALL BE PROVIDED AS NOTED ON THE STORM WATER POLLUTION PREVENTION PLAN AND IN THE STORM WATER POLLUTION PREVENTION DETAILS AND AS DIRECTED BY THE ENGINEER. THE LIMITS OF SUCH MEASURES SHALL BE STAKED BY THE CONTRACTOR PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. SUCH LIMITS MAY BE ADJUSTED BY THE ENGINEER TO ACCOUNT FOR ACTUAL SITE CONDITIONS EXPERIENCED DURING CONSTRUCTION. ADDITIONAL COMPENSATION FOR MEASURES EXCEEDING THE PLAN QUANTITIES WILL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR EACH ITEM.
- 4. THE CONTRACTOR IS TO MAINTAIN AND ADJUST, REPAIR OR REPLACE ALL POLLUTION PREVENTION MEASURES AS REQUIRED OR AS DIRECTED BY THE ENGINEER UNTIL PERMANENT VEGETATION HAS BEEN ESTABLISHED. MAINTENANCE OF POLLUTION CONTROL MEASURES IS TO BE PROVIDED AT NO ADDITIONAL COST TO THE CONTRACT.
- 5. A NPDES PERMIT WILL NOT BE REQUIRED ON THE PROJECT.





Offices Nationwide www.hanson-inc.com

Hanson Professional Services Inc. 1525 S. 6th Street Springfield, IL 62703 phone: 217-788-2450 fax: 217-788-2503

Illinois Licensed
Professional Service Corporation
#184-001084



ST. LOUIS REGIONAL AIRPORT AUTHORITY

HALF SIZE SCALE: 1"= 80"

FULL SIZE SCALE: 1"= 40'

ST. LOUIS REGIONAL AIRPORT 8 TERMINAL DRIVE EAST ALTON, ILLINOIS 62024



RECONSTRUCT BITUMINOUS T-HANGAR TAXILANES (WEST)

SBG No: 3-17-SBGP-162 IDA No: ALN-4840

Contract No. SR094

| NO. | DATE | DESCRIPTION | | | |
|-----------------------------|--------|-------------|---------|-----|--|
| INO. | DATE | DES | DWN | REV | |
| ISSUE: | FEBRUA | ARY 26 | 5, 2021 | | |
| PROJECT NO: 20A0052 | | | | | |
| CAD FILE: C-181-SWP.DWG | | | | | |
| DESIGN BY: JRH 09/30/2020 | | | | | |
| DRAWN BY: JRH 09/30/2020 | | | | | |
| REVIEWED BY: BSS 11/09/2020 | | | | | |

STORM WATER
POLLUTION
PREVENTION PLAN