

CONSTRUCTION PLANS

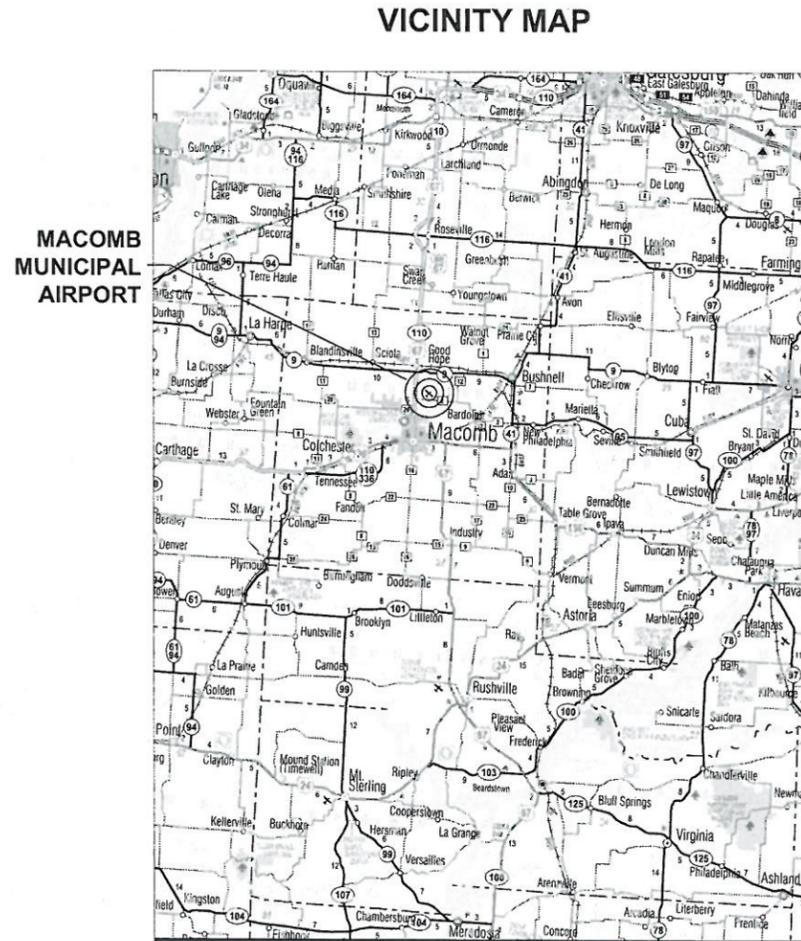
RECONSTRUCT ACCESS TAXIWAY PAVEMENTS

**MACOMB MUNICIPAL AIRPORT (MQB)
MACOMB AIRPORT AUTHORITY
MACOMB, McDONOUGH COUNTY, ILLINOIS**

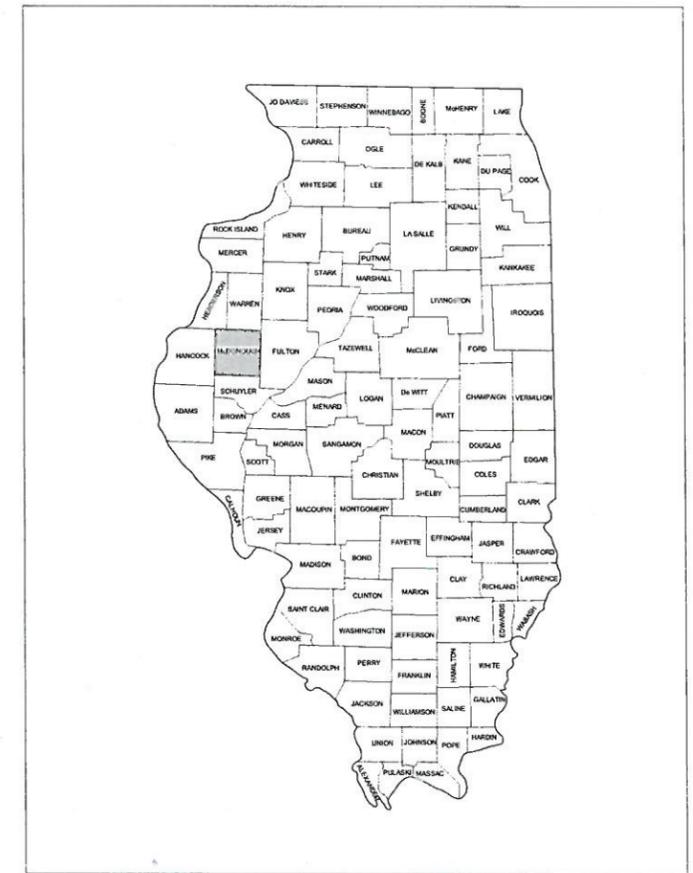
IDA PROJECT NO.: MQB-4638

NOVEMBER 16, 2018

VICINITY MAP



LOCATION MAP



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.

| No. | Issue/Description | Sheets Changed | Date | By |
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PLANS PREPARED BY:



HANSON PROFESSIONAL SERVICES INC.
1525 S. Sixth St.
Springfield, Illinois 62703
Telephone: 217.788.2450
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Lindsay D. Hausman, P.E. Lics. Exp. - 11/30/19
Project Engineer

16 NOV 2018 Date



MACOMB MUNICIPAL AIRPORT
MACOMB AIRPORT AUTHORITY
16190 East 1300th Street
Macomb, Illinois 61455
Telephone: 309.833.3324
Fax: 309.836.7721

Lee Cobb
Airport Manager

16 NOV 2018 Date



| INDEX OF SHEETS | |
|-----------------|---|
| SHEET NO. | TITLE |
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| 2 | SHEET INDEX AND SUMMARY OF QUANTITIES |
| 3 | SITE & SAFETY PLAN |
| 4 | SITE & SAFETY PLAN NOTES |
| 5 | CONSTRUCTION SAFETY NOTES AND DETAILS |
| 6 | ALIGNMENT DATA & TYPICAL SECTION |
| 7 | STORMWATER POLLUTION PREVENTION PLAN & DETAIL |
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| 12 | JOINTING DETAILS |
| 13 | STAKING PLAN |
| 14 | MARKING PLAN |
| 15 | LANDSCAPING PLAN |

| SUMMARY OF QUANTITIES | | | |
|-----------------------|---------------------------------|-------------|----------|
| ITEM NO. | DESCRIPTION | UNIT | QUANTITY |
| AR150510 | ENGINEER'S FIELD OFFICE | LUMP SUM | 1.00 |
| AR150520 | MOBILIZATION | LUMP SUM | 1.00 |
| AR150530 | TRAFFIC MAINTENANCE | LUMP SUM | 1.00 |
| AR152410 | UNCLASSIFIED EXCAVATION | CUBIC YARD | 489.00 |
| AR152480 | SHOULDER ADJUSTMENT | SQUARE YARD | 60.00 |
| AR152540 | SOIL STABILIZATION FABRIC | SQUARE YARD | 2,093.00 |
| AR154606 | GRANULAR DRAINAGE SUBBASE - 6" | SQUARE YARD | 2,093.00 |
| AR156520 | INLET PROTECTION | EACH | 4.00 |
| AR401900 | REMOVE BITUMINOUS PAVEMENT | SQUARE YARD | 1,085.00 |
| AR501506 | 6" PCC PAVEMENT | SQUARE YARD | 2,077.00 |
| AR501530 | PCC TEST BATCH | EACH | 1.00 |
| AR501900 | REMOVE PCC PAVEMENT | SQUARE YARD | 929.00 |
| AR620525 | PAVEMENT MARKING - BLACK BORDER | SQUARE FOOT | 300.00 |
| AR620530 | PAVEMENT MARKING - EPOXY | SQUARE FOOT | 300.00 |
| AR705506 | 6" PERFORATED UNDERDRAIN | LINEAR FOOT | 216.00 |
| AR705640 | UNDERDRAIN CLEANOUT | EACH | 2.00 |
| AR904510 | SODDING | SQUARE YARD | 60.00 |

**RECONSTRUCT ACCESS
TAXIWAY PAVEMENTS**

IDA No: MQB-4638

Contract No.: MB032

| NO. | DATE | DESCRIPTION | | |
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ISSUE: NOVEMBER 16, 2018

PROJECT NO: 18A0084

CAD FILE: 02-S00.DWG

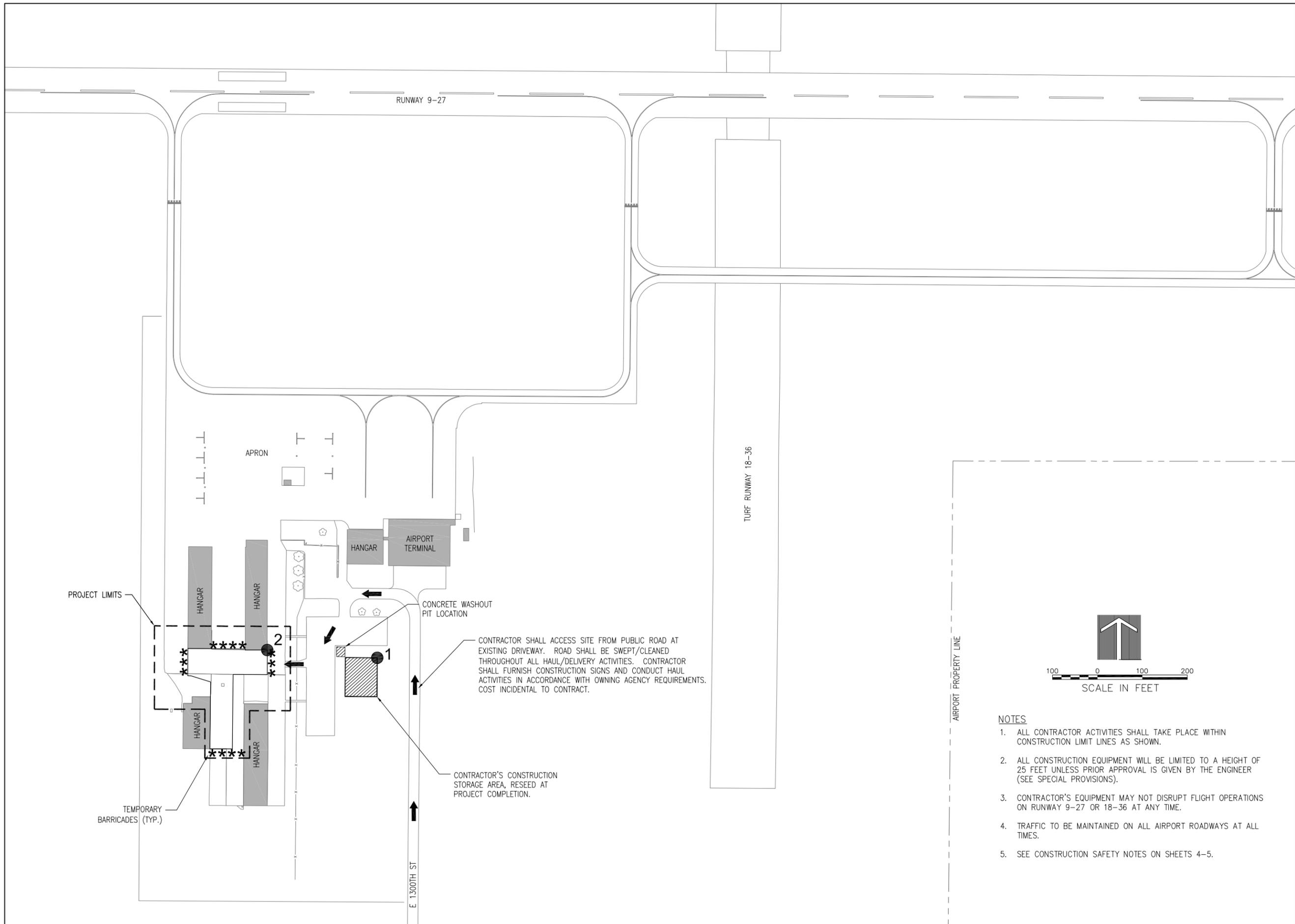
DESIGN BY: LDH 8/28/18

DRAWN BY: LDH 8/28/18

REVIEWED BY: KMS 10/16/18

SHEET TITLE

**SHEET INDEX AND
SUMMARY OF
QUANTITIES**



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RECONSTRUCT ACCESS TAXIWAY PAVEMENTS

IDA No: MQB-4638

Contract No.: MB032

| NO. | DATE | DESCRIPTION | | |
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ISSUE: NOVEMBER 16, 2018

PROJECT NO: 18A0084

CAD FILE: 03-SITE.DWG

DESIGN BY: LDH 8/23/18

DRAWN BY: LDH 8/24/18

REVIEWED BY: KMS 10/16/18

SHEET TITLE

SITE & SAFETY PLAN

NOTES

- ALL CONTRACTOR ACTIVITIES SHALL TAKE PLACE WITHIN CONSTRUCTION LIMIT LINES AS SHOWN.
- ALL CONSTRUCTION EQUIPMENT WILL BE LIMITED TO A HEIGHT OF 25 FEET UNLESS PRIOR APPROVAL IS GIVEN BY THE ENGINEER (SEE SPECIAL PROVISIONS).
- CONTRACTOR'S EQUIPMENT MAY NOT DISRUPT FLIGHT OPERATIONS ON RUNWAY 9-27 OR 18-36 AT ANY TIME.
- TRAFFIC TO BE MAINTAINED ON ALL AIRPORT ROADWAYS AT ALL TIMES.
- SEE CONSTRUCTION SAFETY NOTES ON SHEETS 4-5.

GENERAL NOTES

PROJECT DESCRIPTION

THIS PROJECT IS TO RECONSTRUCT HANGAR ACCESS TAXIWAY PAVEMENTS AT MACOMB MUNICIPAL AIRPORT INCLUDING, AMONG OTHER INCIDENTAL WORK, THE FOLLOWING ITEMS:

- PLACEMENT OF TEMPORARY SOIL EROSION CONTROL MEASURES.
- REMOVAL OF EXISTING PAVEMENTS.
- INSTALLATION OF UNDERDRAIN.
- INSTALLATION OF AGGREGATE DRAINAGE LAYER.
- PLACEMENT OF PCC PAVEMENT.
- PLACEMENT OF PAVEMENT MARKINGS.
- SHOULDER ADJUSTMENT AND SODDING ALONG NEW PAVEMENT EDGES.

PROTECTION OF EXISTING AIRPORT FACILITIES

THE CONTRACTOR IS TO BE RESPONSIBLE FOR THE PROTECTION OF EXISTING UNDERGROUND AND OVERHEAD UTILITIES AND LIGHTING EQUIPMENT; DRIVEWAY AND ROAD PAVEMENT AND SHOULDERS; RUNWAY, TAXIWAY AND APRON PAVEMENTS AND SHOULDERS; RUNWAY, TAXIWAY AND AIRPORT LIGHTING EQUIPMENT; AND SEEDED AND TURFED AREAS THAT ARE UTILIZED IN OR AFFECTED BY THE CONTRACTOR'S ACTIVITIES. ITEMS DAMAGED BY THE CONTRACTOR ARE TO BE REPAIRED AT CONTRACTOR'S EXPENSE AND TO THE SATISFACTION OF THE AIRPORT MANAGER AND THE OWNER'S REPRESENTATIVE.

IN ADDITION, WHEN CONDITIONS DICTATE OR AS DETERMINED BY THE AIRPORT MANAGER OR THE OWNER'S REPRESENTATIVE, THE CONTRACTOR SHALL BE REQUIRED TO USE A PICK-UP TYPE SWEEPER IN ALL ACTIVE CONSTRUCTION AIRFIELD PAVEMENT AREAS. THE CONTRACTOR WILL BE REQUIRED TO HAVE A SWEEPER AVAILABLE FOR USE AT ALL TIMES. THE COST OF SWEEPING SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.

CONTRACTOR'S ACCESS AND TEMPORARY FACILITIES

CONTRACTOR'S ACCESS TO THE PROJECT WHEN ON AIRPORT PROPERTY IS SHOWN ON SHEET 3. CONTRACTOR'S ACCESS TO THE AIRPORT ITSELF IS TO BE PROVIDED BY PUBLIC RIGHTS-OF-WAY. THE CONTRACTOR IS TO SECURE ALL NECESSARY PERMITS FOR THE USE OF ANY PUBLIC RIGHTS-OF-WAY AND IS TO MAINTAIN TRAFFIC ON THESE PUBLIC ROADS AT ALL TIMES, WITH THE COSTS OF PERMITTING, CLEANING AND REPAIRING OF PAVEMENT DAMAGED BY CONTRACTOR'S ACTIVITIES INCIDENTAL TO THE CONTRACT. USE OF AND REPAIRS TO ANY PUBLIC FACILITIES ARE TO BE COMPLETED TO THE SATISFACTION OF THE FACILITY'S OWNER.

THE CONTRACTOR IS TO PROVIDE TEMPORARY CONSTRUCTION ROADS WITHIN THE CONSTRUCTION LIMIT LINES AS MAY BE REQUIRED BY HIS ACTIVITIES. HEAVY VEHICLES SHALL NOT CROSS EXISTING PAVEMENT SURFACES EXCEPT AS APPROVED BY THE AIRPORT MANAGER AND THE OWNER'S REPRESENTATIVE. ANY DAMAGE TO PAVEMENTS THAT MAY OCCUR BY THE CONTRACTOR'S ACTIVITIES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE AND TO THE SATISFACTION OF THE AIRPORT MANAGER AND THE OWNER'S REPRESENTATIVE. FOR HAUL ROUTES MADE BY THE CONTRACTOR THROUGH GRASSED AREAS, CONTRACTOR SHALL GRADE, LEVEL, TOPSOIL, SEED AND MULCH AT THE END OF THE PROJECT, COST INCIDENTAL TO THE CONTRACT.

THE CONTRACTOR IS TO PROVIDE AN EQUIPMENT STORAGE AND PARKING AREA AT THE LOCATIONS SHOWN ON SHEET 3. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN THE ACCESS ROADS AND THE STORAGE AREA DURING CONSTRUCTION AND TO RESTORE THE AREAS AT PROJECT COMPLETION TO CONDITIONS SUITABLE TO THE AIRPORT MANAGER AND THE OWNER'S REPRESENTATIVE. AT THE AIRPORT MANAGER'S DISCRETION, THE TEMPORARY FACILITIES MAY REMAIN, BUT THEY MUST BE LEFT IN CONDITIONS SUITABLE TO THE AIRPORT MANAGER. THE COST OF PROVIDING, MAINTAINING AND RESTORING THE TEMPORARY FACILITIES IS INCIDENTAL TO THE CONTRACT.

RESPONSIBILITY FOR EXISTING UTILITIES

THE LOCATION, SIZE AND/OR TYPE OF MATERIAL OF EXISTING UNDERGROUND OR OVERHEAD UTILITIES AS MAY BE INDICATED ON THESE CONSTRUCTION PLANS IS NOT REPRESENTED AS BEING ACCURATE, SUFFICIENT OR COMPLETE. NEITHER THE OWNER NOR THE PROJECT ENGINEER HAVE INDEPENDENTLY VERIFIED THIS INFORMATION AND NEITHER ASSUMES ANY RESPONSIBILITY WHATSOEVER IN RESPECT TO THE ACCURACY, SUFFICIENCY OR COMPLETENESS OF THE INFORMATION AND GIVE NO EXPRESSED OR IMPLIED GUARANTEE THAT ANY CONDITIONS INDICATED ARE REPRESENTATIVE OF ACTUAL CONDITIONS TO BE ENCOUNTERED.

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 ALL UTILITY COMPANIES AND AGENCIES OF HIS CONSTRUCTION PLANS AND SHALL OBTAIN FROM EACH PARTY DETAILED INFORMATION AND ASSISTANCE RELATIVE TO THE LOCATION OF ALL UTILITIES AND THE WORKING SCHEDULE OF ANY REMOVALS OR ADJUSTMENTS REQUIRED OF THE UTILITY. THE CONTRACTOR SHALL CONTACT J.U.L.I.E. (PHONE 800-892-0123) TO ASSIST IN THE ABOVE.

THE CONTRACTOR SHALL PROTECT ANY FACILITIES TO THE SATISFACTION OF THE UTILITY OR OWNING-AGENCY WITH THE COST OF ANY REQUIRED PROTECTION TO BE INCIDENTAL TO THE CONTRACT. IN THE EVENT A UTILITY LINE OR SERVICE IS UNEXPECTEDLY ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER'S REPRESENTATIVE AND THE UTILITY COMPANY OR AGENCY OF JURISDICTION. ANY SUCH UTILITIES DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED TO SERVICE AT ONCE.

EXISTING BENCHMARKS

PROJECT BENCHMARKS ARE AS FOLLOWS:

| | |
|--------------------------------|--|
| "MACPORT" NGS MONUMENT | N 1,403,476.08 E 2,161,141.29 |
| "MACPORT AZ MK 2" NGS MONUMENT | N 1,403,420.68 E 2,164,095.73 |
| ILDOT D4 7118 | N 1,381,375.75 E 2,167,759.56 ELEV. 692.80 |



PROJECT IS LOCATED IN
SOUTHEAST 1/4 OF SECTION 7,
MACOMB TOWNSHIP,
McDONOUGH COUNTY

NOTES

1. VERTICAL COORDINATES ARE IN NGVD 29. HORIZONTAL COORDINATES ARE IN STATE PLANE NAD 83 ILLINOIS WEST.
2. STATIONS, OFFSETS AND ELEVATIONS SHOWN ARE IN FEET.
3. THE AIRPORT REFERENCE CODE FOR RUNWAY 9-27 IS C-II. BOTH RUNWAY 9 AND 27 HAVE A NON-PRECISION APPROACH WITH VISIBILITY MINIMUM OF 1 MILE.
4. THE AIRPORT REFERENCE CODE FOR RUNWAY 18-36 IS A-I (SMALL). BOTH RUNWAY 18 AND 36 HAVE A VISUAL APPROACH.

RUNWAY END COORDINATES

| DESCRIPTION | LATITUDE | LONGITUDE | RUNWAY STATION | RUNWAY ELEVATION |
|---------------|------------------|------------------|----------------|------------------|
| RUNWAY 9 END | 40°31'10.9163" N | 90°39'39.7660" W | 36+00 | 705.8 |
| RUNWAY 27 END | 40°31'10.8340" N | 90°38'33.7256" W | 87+00 | 679.2 |
| RUNWAY 18 END | 40°31'33.6546" N | 90°39'11.2089" W | 174+97 | 691.3 |
| RUNWAY 36 END | 40°30'55.8335" N | 90°39'11.2927" W | 136+69 | 681.6 |

OBJECT INFORMATION

| ITEM NO. | DESCRIPTION | MOBILITY | GROUND ELEVATION | OBJECT ELEVATION | LATITUDE | LONGITUDE | RUNWAY 9-27 STATION | RUNWAY 9-27 OFFSET | RUNWAY 9-27 EXIST EL. | RUNWAY 18-36 STATION | RUNWAY 18-36 OFFSET | RUNWAY 18-36 EXIST EL. |
|----------|------------------------|------------|------------------|------------------|--------------------|--------------------|---------------------|--------------------|-----------------------|----------------------|---------------------|------------------------|
| 1 | CONSTRUCTION EQUIPMENT | STATIONARY | 684.0 | 709.0 | 40° 30' 58.4917" N | 90° 39' 21.8903" W | 113+82.24 | 1,255.0 | 692.0 | 22+72.54 | 820.6 | 680.0 |
| 2 | CONSTRUCTION EQUIPMENT | MOVING | 687.8 | 712.8 | 40° 30' 58.6476" N | 90° 39' 25.0598" W | 111+37.43 | 1,239.6 | 692.0 | 22+87.96 | 1,065.4 | 680.0 |



Engineering | Architecture | Planning | Allied Services

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Macomb, Illinois 61455
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Fax: 309.836.7721

RECONSTRUCT ACCESS TAXIWAY PAVEMENTS

IDA No: MQB-4638

Contract No.: MB032

| NO. | DATE | DESCRIPTION | | |
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ISSUE: NOVEMBER 16, 2018

PROJECT NO: 18A0084

CAD FILE: 04-GENEALNOTES.DWG

DESIGN BY: LDH 8/24/18

DRAWN BY: LDH 8/24/18

REVIEWED BY: KMS 10/16/18

SHEET TITLE

SITE & SAFETY PLAN NOTES

CONSTRUCTION AND SAFETY NOTES

SAFETY IS REQUIRED

CONSTRUCTION OF THE PROJECT SHALL BE PERFORMED BY THE CONTRACTOR IN ACCORDANCE WITH THE GUIDELINES SPECIFIED IN FAA ADVISORY CIRCULAR 150/5370-2 (CURRENT ISSUE) AND THE AIRPORT RULES AND REGULATIONS. ANY CONTRACTOR ACTIVITIES REQUIRED FOR PROJECT SAFETY SHALL BE PROVIDED BY THE CONTRACTOR AND BE INCIDENTAL TO THE CONTRACT.

SEQUENCE OF CONSTRUCTION

THE CONTRACTOR SHALL EXPEDITE WORK AT THOSE STAGES WHERE ACTIVE TAXIWAYS, HANGAR ACCESS, APRONS, ROADWAYS OR PARKING LOTS MUST BE CLOSED, TO MINIMIZE THE LENGTH OF TIME THAT AIRPORT OPERATIONS ARE RESTRICTED.

RUNWAY CLOSURE

NO RUNWAY CLOSURES WILL BE ALLOWED AS PART OF THIS PROJECT.

TEMPORARY BARRICADES

THE CONTRACTOR SHALL FURNISH BARRICADES FOR ANY AIRFIELD OR ROADWAY PAVEMENT TO BE CLOSED BY HIS WORK. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO FURNISH, PLACE AND MAINTAIN BARRICADES AS SHOWN IN DETAIL B, THIS SHEET, AND AS DIRECTED BY THE RESIDENT ENGINEER AND AIRPORT DIRECTOR. THE COST OF THESE ITEMS, AND THEIR MAINTENANCE, IS TO BE PAID FOR UNDER AR150530 TRAFFIC MAINTENANCE. ANY WORK THAT REQUIRES PORTIONS OF AN ACTIVE TAXIWAY OR APRON TO BE CLOSED MUST BE COMPLETED EXPEDITIOUSLY TO MINIMIZE DISRUPTION TO AIRCRAFT OPERATIONS.

VEHICULAR TRAFFIC CONTROL

THE CONTRACTOR SHALL ERECT AND MAINTAIN, AT NO COST TO THE CONTRACT, DIRECTIONAL AND INFORMATIONAL SIGNS FOR THE CONTRACTOR'S ACCESS ROUTES AT THE EXISTING CONSTRUCTION ENTRANCES AND FOR THE CONTRACTOR'S ROUTE WITHIN THE AIRPORT OPERATIONS AREA, AS NOTED ON THE PLANS OR AS DIRECTED BY THE RESIDENT ENGINEER. WHERE CONTRACTOR EQUIPMENT IS OPERATING WITHIN ACTIVE AIRCRAFT OPERATIONS AREAS, RADIO-EQUIPPED FLAGGERS SHALL BE FURNISHED BY THE CONTRACTOR. CONTINUOUS PAVEMENT SWEEPING SHALL BE FURNISHED TO REMOVE DEBRIS FROM ACTIVE AIRCRAFT MOVEMENT PATHS. THE COST OF TRAFFIC CONTROL/FLAGGERS AND PAVEMENT SWEEPING SHALL BE PAID UNDER ITEM AR150530 TRAFFIC MAINTENANCE.

AIRFIELD OPERATIONAL SAFETY DURING CONSTRUCTION

THE CONTRACTOR SHALL NOT HAVE ACCESS TO ANY PART OF THE ACTIVE AIRFIELD (RUNWAYS, TAXIWAYS OR APRONS) FOR ANY EQUIPMENT OR PERSONNEL WITHOUT THE APPROVAL OF THE RESIDENT ENGINEER AND THE AIRPORT OWNER. ACTIVITIES WITHIN THE AIRPORT OPERATIONS AREA (AOA) ARE SUBJECT TO FEDERAL ACCESS CONTROL. BECAUSE OF THE HIGH REQUIREMENTS FOR AIRPORT SECURITY AND SAFETY, THE FOLLOWING REQUIREMENTS MUST BE ADHERED TO:

- ALL EMPLOYEES OF THE CONTRACTOR SHALL PARK THEIR PERSONAL VEHICLES IN THE DESIGNATED EQUIPMENT PARKING AND STORAGE AREA. EACH PERSON OR VEHICLE ENTERING THE CONTRACTOR AREA SHALL DO SO IN ACCORDANCE WITH THE POLICIES AND PROCEDURES OF THE AIRPORT OWNER. THE CONTRACTOR WILL TRANSPORT THE WORKERS FROM THE PARKING AREAS TO THE WORK AREA. ONLY CONTRACTOR VEHICLES WILL BE ALLOWED OUTSIDE OF THE PROPOSED EQUIPMENT STORAGE AND PARKING AREAS.
- SHOULD ANY CONTRACTOR PERSONNEL BE IDENTIFIED AS NONCOMPLIANT WITH ANY VEHICLE DRIVING SAFETY REQUIREMENTS IN THIS PROJECT SAFETY PLAN OR IN THE AIRPORT VEHICLE OPERATIONS REGULATIONS, SUCH DRIVERS SHALL BE PENALIZED BY RESCISSION OF THEIR ON-AIRPORT DRIVING PRIVILEGES, AND THEIR ACCESS TO THE CONSTRUCTION LIMIT AREA WHEN OPERATING VEHICLES SHALL BE REVOKED.
- THE CONTRACTOR WILL BE REQUIRED TO BE IN CONTACT WITH AIRPORT OPERATIONS. THIS WILL KEEP THE CONTRACTOR IN CONTACT WITH AIRPORT PERSONNEL AND ENABLE THE AIRPORT PERSONNEL TO IMMEDIATELY CONTACT THE CONTRACTOR IN CASE OF AN AERONAUTICAL EMERGENCY THAT WOULD REQUIRE ACTION BY THE CONTRACTOR AND/OR HIS PERSONNEL.

THE CONTRACTOR SHALL REMAIN WITHIN THE CONSTRUCTION LIMIT LINE SHOWN IN THE PLANS. WHEN OUTSIDE THESE LIMITS, ALL CONTRACTOR ACTIVITIES SHALL REMAIN MORE THAN 250 FEET FROM THE CENTERLINE AND 300 FEET FROM THE END OF ACTIVE RUNWAY 9-27, AND 125 FEET FROM THE CENTERLINE AND 240 FEET FROM THE END OF ACTIVE RUNWAY 18-36. FOR WORK NEAR TAXIWAYS AND APRONS, THE CONTRACTOR'S PERSONNEL AND EQUIPMENT MUST REMAIN AT LEAST 44.5 FEET FROM CENTERLINE OF ACTIVE CATEGORY I TAXIWAYS, 65.5 FEET FROM ACTIVE CATEGORY II TAXIWAYS, AND TEN (10) FEET FROM ACTIVE APRONS. WHEN CONSTRUCTION OPERATIONS MUST BE CONDUCTED WITHIN THESE SEPARATIONS, THE PAVEMENT MUST BE CLOSED TO AIRCRAFT ACTIVITY BY THE CONTRACTOR BY PROVIDING TEMPORARY BARRICADES AS SHOWN IN THE PLANS, AND IN THE CASE OF RUNWAY PAVEMENTS, CLOSED RUNWAY MARKERS. WHEN HAUL VEHICLES ARE PERMITTED TO CROSS ACTIVE AIRFIELD PAVEMENTS, THE CONTRACTOR WILL PROVIDE POSITIVE CONTROL OF CONSTRUCTION VEHICLES USING RADIO-EQUIPPED FLAGGERS. CONTRACTOR SHALL ESTABLISH AND MAINTAIN RADIO CONTACT WITH MACOMB AIRPORT CTAF/UNICOM (122.8 MHz). ALL CONTRACTOR'S EQUIPMENT USED IN ACTIVE AIRPORT OPERATIONS AREAS SHALL BE EQUIPPED WITH A FAA-STANDARD FLAG, AS REFERENCED IN FAA AC 150/5370-2, CURRENT ISSUE. AIRCRAFT SHALL HAVE THE RIGHT-OF-WAY.

THE CONTRACTOR SHALL KEEP ALL OF HIS EQUIPMENT AND PERSONNEL AT LEAST 15 FEET FROM THE EDGE OF ANY ACTIVE ROADWAY OR AUTO PARKING PAVEMENT. WHEN HIS ACTIVITIES REQUIRE WORKING WITHIN 15 FEET OF THE ROAD/PAVEMENT EDGE, THE CONTRACTOR SHALL PROVIDE FOR TRAFFIC CONTROL IN ACCORDANCE WITH IDOT SPECIFICATIONS (HIGHWAY STANDARDS).

OPEN TRENCHES, EXCAVATIONS AND STOCKPILED MATERIAL AT THE CONSTRUCTION SITE SHALL BE DELINEATED WITH THE USE OF BARRICADES DURING HOURS OF RESTRICTED VISIBILITY AND/OR DARKNESS. NO OPEN TRENCHES SHALL BE ALLOWED WITHIN THE RUNWAY SAFETY AREA (RSA) OR THE TAXIWAY SAFETY AREA (TSA) WHEN THE RUNWAY OR TAXIWAY IS OPEN TO AIR TRAFFIC (INCLUDING OVERNIGHT). THE RSA IS DEFINED AS 75 FEET FROM THE CENTERLINE AND 300 FEET FROM THE END OF RUNWAY 9-27, AND 60 FEET FROM THE CENTERLINE AND 240 FEET FROM THE END OF RUNWAY 18-36. THE TSA IS MEASURED AT 24.5 FEET FROM THE CATEGORY I TAXIWAY CENTERLINE AND 39.5 FEET FROM THE CATEGORY II TAXIWAY CENTERLINE. NO VERTICAL DROP OF GREATER THAN 3-INCHES IN HEIGHT FROM PAVEMENT EDGE TO EARTH GRADE OR EARTH GRADE TO EARTH GRADE WITHIN THE RSA OR TSA WILL BE PERMITTED WHEN THE RUNWAY OR TAXIWAY IS OPEN TO AIR TRAFFIC. THE CONTRACTOR WILL HAVE STEEL PLATES ON-SITE TO ALLOW FOR THE RAPID COVERING OF TRENCHES OR EARTH DROPS IN THE EVENT OF UNEXPECTED WORK STOPPAGES FOR WEATHER OR AIRPORT EMERGENCIES.

WHEN NOT IN USE AND DURING NONWORKING HOURS, CONTRACTOR'S EQUIPMENT SHALL BE PARKED WITHIN THE CONTRACTOR'S EQUIPMENT STORAGE AND PARKING AREAS. THE EQUIPMENT STORAGE AND PARKING AREAS ARE TO BE LOCATED AS SHOWN ON THE SITE PLAN. THE CONTRACTOR WILL BE RESPONSIBLE FOR MAINTAINING THE CONSTRUCTION ENTRANCES IN GOOD CONDITION. THE COST OF MAINTAINING THE CONSTRUCTION ENTRANCE AND CONTRACTOR AREAS IS TO BE INCIDENTAL TO THE CONTRACT. THE CONTRACTOR SHALL PROTECT ALL EXISTING PAVEMENT EDGES FROM DAMAGE FROM CONSTRUCTION EQUIPMENT AND HAUL VEHICLES.

AT NO TIME SHALL THE CONTRACTOR CONDUCT ANY ACTIVITIES OR OPERATE OR PARK EQUIPMENT SO AS TO OBSTRUCT ACTIVE PART 77 AIRPORT IMAGINARY SURFACES OR THE RUNWAY PROTECTION ZONES (RPZ) AS DELINEATED IN THE PLANS. CONTRACTOR'S EQUIPMENT SHALL EXTEND NO HIGHER THAN 25 FEET. CRANES SHALL NOT BE USED DURING INSTRUMENT WEATHER CONDITIONS OR AT NIGHT. CRANES SHALL BE LOWERED WHEN NOT IN USE.

BEFORE REOPENING TEMPORARILY CLOSED PAVEMENTS, THE CONTRACTOR SHALL INSPECT AND CLEAN, AS NECESSARY, THE PAVEMENT TO ASSURE THAT NO MATERIALS OR OBJECTS THAT MAY DAMAGE AIRCRAFT OR VEHICLES REMAIN. ANY REQUIRED CLEANING SHALL BE TO THE SATISFACTION OF THE RESIDENT ENGINEER AND AIRPORT OWNER AND IS INCIDENTAL TO THE CONTRACT.

ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE APPROVED PROJECT SAFETY PLAN, ISSUED BY THE ILLINOIS DIVISION OF AERONAUTICS.

FAILURE TO USE THESE PRESCRIBED PROCEDURES OR ADHERE TO THE SAFETY REQUIREMENTS WILL RESULT IN THE SUSPENSION OF WORK.

NOTIFICATIONS BY CONTRACTOR

THE CONTRACTOR MUST NOTIFY THE RESIDENT ENGINEER AND THE AIRPORT OWNER 3 DAYS IN ADVANCE OF ANY REQUIRED PARTIAL OR COMPLETE CLOSING OF ANY RUNWAY, TAXIWAY OR APRON. THE DATE, TIME AND SCHEDULED DURATION OF THE CLOSING MUST BE APPROVED BY THE RESIDENT ENGINEER AND THE AIRPORT OWNER. THE CONTRACTOR SHALL NOTIFY THE RESIDENT ENGINEER AND AIRPORT OWNER 3 DAYS IN ADVANCE OF THE CONTRACTOR'S CLOSING OF OTHER ACTIVE ROADWAYS, AIRFIELD OR ROADWAY LIGHTING CIRCUITS, OR OTHER AIRPORT FACILITIES.

CONTRACTOR'S USE OF SITE

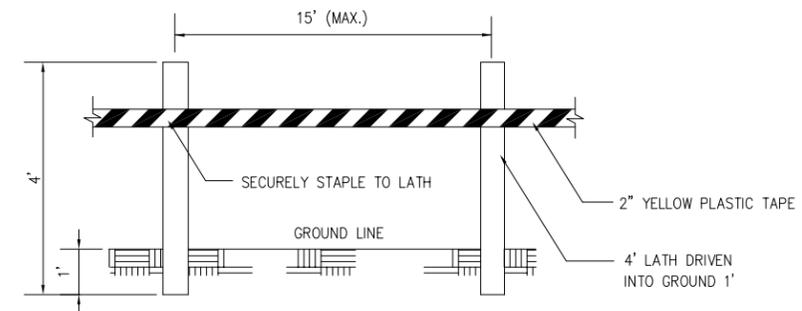
CONTRACTOR'S ACCESS TO THE PROJECT WHEN ON AIRPORT PROPERTY IS SHOWN IN THE PLANS. CONTRACTOR'S ACCESS TO THE AIRPORT ITSELF IS TO BE PROVIDED BY PUBLIC RIGHTS-OF-WAY. THE CONTRACTOR IS TO SECURE ALL NECESSARY PERMITS FOR THE USE OF ANY PUBLIC RIGHTS-OF-WAY AND IS TO MAINTAIN TRAFFIC ON THESE PUBLIC ROADS AT ALL TIMES, WITH THE COSTS OF PERMITTING, CLEANING AND REPAIRING OF PAVEMENT DAMAGED BY CONTRACTOR'S ACTIVITIES INCIDENTAL TO THE CONTRACT. USE OF AND REPAIRS TO ANY PUBLIC FACILITIES ARE TO BE COMPLETED TO THE SATISFACTION OF THE FACILITY'S OWNER.

THE CONTRACTOR IS TO PROVIDE TEMPORARY CONSTRUCTION ROADS WITHIN THE CONSTRUCTION LIMIT LINES AS MAY BE REQUIRED BY HIS ACTIVITIES. HEAVY VEHICLES SHALL NOT CROSS EXISTING PAVEMENT SURFACES EXCEPT AS APPROVED BY THE AIRPORT OWNER AND THE RESIDENT ENGINEER. ANY DAMAGE TO PAVEMENTS THAT MAY OCCUR BY THE CONTRACTOR'S ACTIVITIES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE AND TO THE SATISFACTION OF THE AIRPORT OWNER AND THE RESIDENT ENGINEER. FOR HAUL ROUTES MADE BY CONTRACTOR THROUGH GRASSED AREAS, CONTRACTOR SHALL GRADE, LEVEL, TOPSOIL, SEED AND MULCH AT THE END OF THE PROJECT, COST INCIDENTAL TO THE CONTRACT.

THE CONTRACTOR IS TO PROVIDE AN EQUIPMENT STORAGE AND PARKING AREA AT THE LOCATIONS SHOWN IN THE PLANS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN THE ACCESS ROADS AND THE STORAGE AREA DURING CONSTRUCTION AND TO RESTORE THE AREAS AT PROJECT COMPLETION TO CONDITIONS SUITABLE TO THE AIRPORT OWNER AND THE RESIDENT ENGINEER. AT THE AIRPORT OWNER'S DISCRETION, THE TEMPORARY FACILITIES MAY REMAIN, BUT THEY MUST BE LEFT IN CONDITIONS SUITABLE TO THE AIRPORT OWNER. THE COST OF PROVIDING, MAINTAINING AND RESTORING THE TEMPORARY FACILITIES IS INCIDENTAL TO THE CONTRACT.

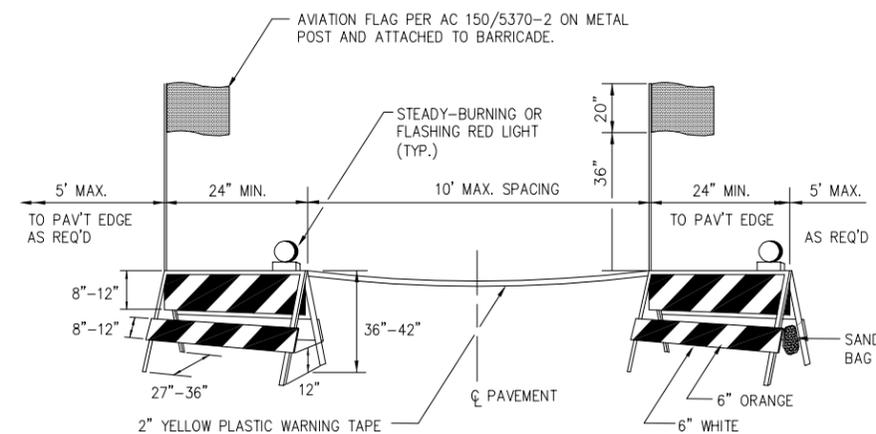
UTILITY OUTAGES AND SHUTDOWNS

THE CONTRACTOR SHALL PROVIDE 3 DAYS PRIOR NOTICE OF ANY OUTAGES OR SHUTDOWNS TO THE OWNER AND THE AGENCY OWNING THE AFFECTED UTILITY. THE CONTRACTOR SHALL PROVIDE ANY TEMPORARY CONNECTIONS OR OTHER MEASURES AS MAY BE REQUIRED TO MAINTAIN SERVICE AS MAY BE REQUIRED BY THE OWNING AGENCY AT NO COST TO THE OWNER.



MATERIALS ARE TO BE APPROVED BY ENGINEER PRIOR TO INSTALLATION. COST OF MATERIALS, INSTALLATION, RELOCATION AND MAINTENANCE OF LATHING AND WARNING TAPE IS TO BE INCIDENTAL TO THE CONTRACT.

**DETAIL A
LATHING AND WARNING TAPE**



BARRICADES ARE TO BE OF IDOT TYPE II. A STEADY-BURNING OR FLASHING RED LIGHT FACING PASSING TRAFFIC IS TO BE MOUNTED ABOVE THE TOP OF EACH BARRICADE FRAME. THE BARRICADE IS TO BE STABILIZED FROM WIND BY SANDBAGS PLACED ON THE FRAME OR OTHER METHODS APPROVED BY THE RESIDENT ENGINEER. NO PART OF THE REFLECTORIZED PORTION OF THE BARRICADE IS TO BE OBSTRUCTED IN ANY MANNER. COST OF FURNISHING, INSTALLING, RELOCATING, MAINTAINING AND REMOVING BARRICADES IS TO BE PAID FOR UNDER ITEM AR150530 TRAFFIC MAINTENANCE.

**DETAIL B
STANDARD PAVEMENT BARRICADES**

DETAILS SHOWN ARE NOT TO SCALE



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Macomb, Illinois 61455
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**RECONSTRUCT ACCESS
TAXIWAY PAVEMENTS**

IDA No: MQB-4638

Contract No.: MB032

| NO. | DATE | DESCRIPTION | | |
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ISSUE: NOVEMBER 16, 2018

PROJECT NO: 18A0084

CAD FILE: 05-SAFETYNOTES.DWG

DESIGN BY: LDH 8/23/18

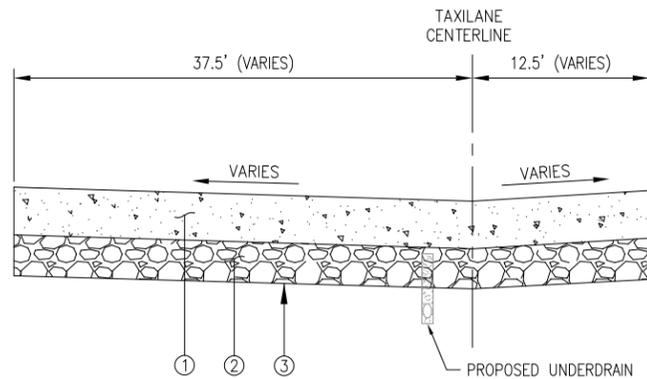
DRAWN BY: LDH 8/23/18

REVIEWED BY: KMS 10/16/18

SHEET TITLE

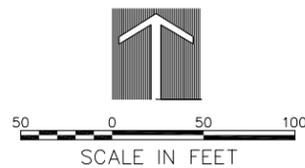
**CONSTRUCTION
SAFETY NOTES AND
DETAILS**

OCT 30, 2018 2:40 PM HANSON\00682\18\JOBS\18A0084\18A0084\CD\AIRPORT\SHEET\05-SAFETYNOTES.DWG

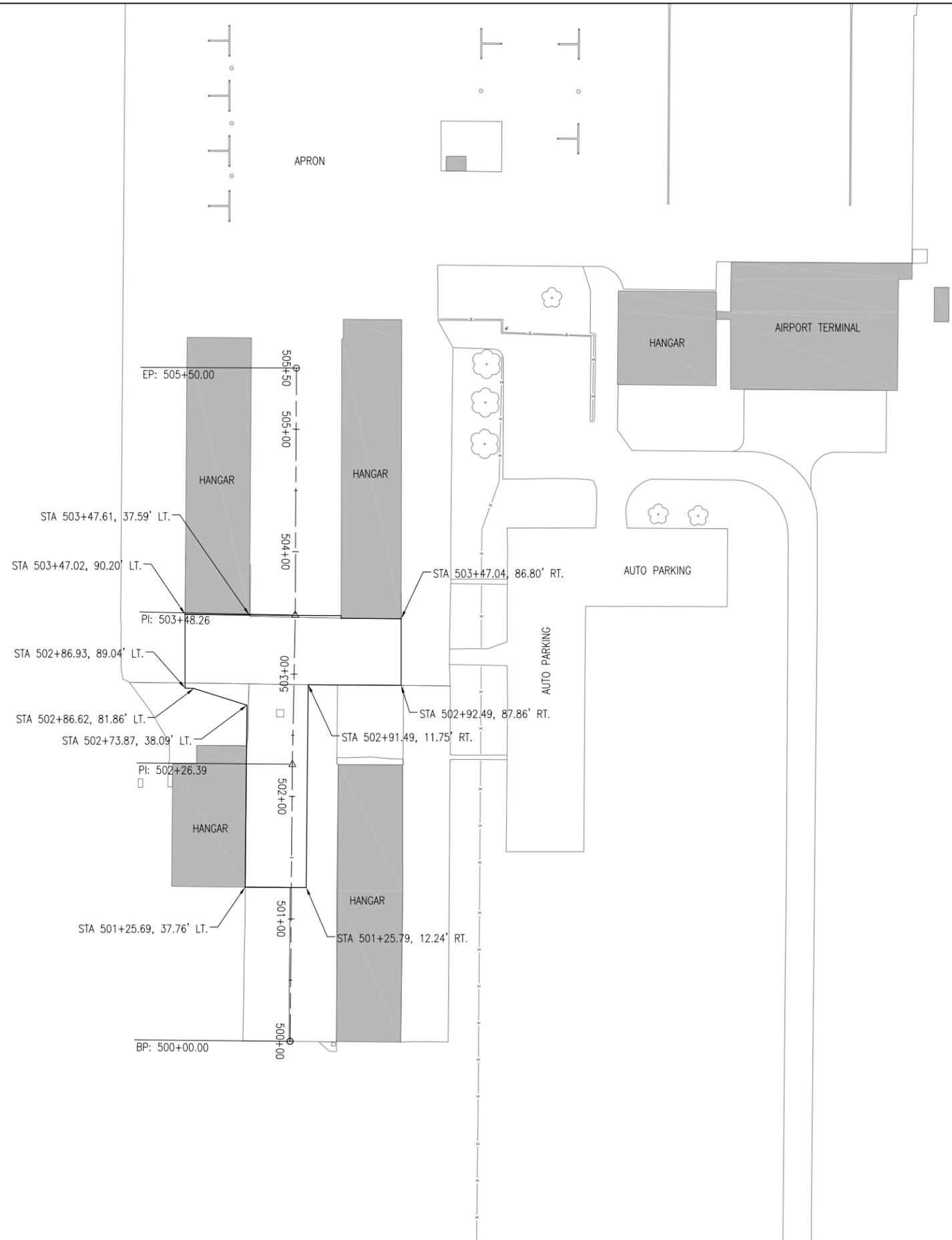


TYPICAL SECTION ACCESS TAXILANE

- ① PROPOSED 6.0 INCH PCC PAVEMENT, ITEM AR501506
- ② PROPOSED 6.0 INCH GRANULAR DRAINAGE SUBBASE, ITEM AR154606
- ③ PROPOSED SOIL STABILIZATION FABRIC, ITEM AR152540



| Alignment | Description | Station | Project Coordinates | |
|-----------------|------------------------|-----------|---------------------|--------------|
| | | | Northing | Easting |
| Access Taxilane | Beginning of Alignment | 500+00.00 | 1401976.8938 | 2160177.8287 |
| | PI | 502+26.39 | 1402203.2733 | 2160179.7062 |
| | PI | 503+48.26 | 1402325.1237 | 2160182.0837 |
| | End of Alignment | 505+50.00 | 1402526.8605 | 2160183.0569 |



RECONSTRUCT ACCESS TAXIWAY PAVEMENTS

IDA No: MQB-4638

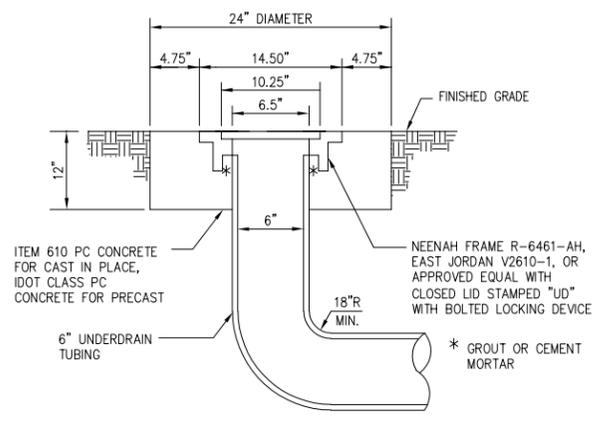
Contract No.: MB032

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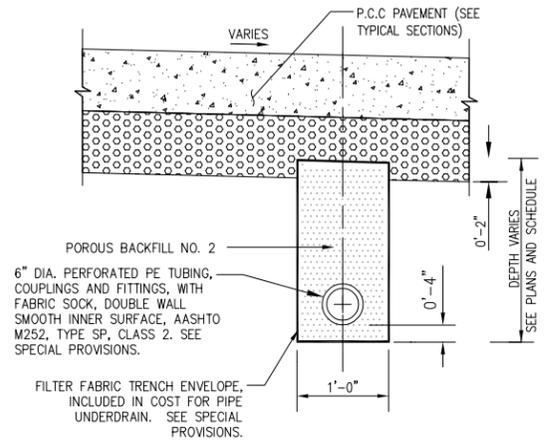
ISSUE: NOVEMBER 16, 2018
PROJECT NO: 18A0084
CAD FILE: 06-ALIGN.DWG
DESIGN BY: LDH 8/28/18
DRAWN BY: LDH 8/28/18
REVIEWED BY: KMS 10/16/18

SHEET TITLE

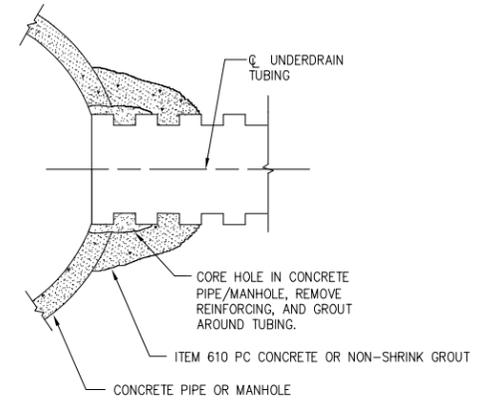
ALIGNMENT DATA & TYPICAL SECTION



UNDERDRAIN CLEANOUT



UNDERDRAIN UNDER PAVEMENT



STORM SEWER CONCRETE COLLAR AND GROUT CONNECTION

| UNDERDRAIN SCHEDULE | | | | | | | | |
|---------------------|-----------|--------|----|------------------|---------|------------|------------|---------|
| STRUCTURE | STATION | OFFSET | | TYPE | RIM EL. | INVERT EL. | PAY LENGTH | SLOPE % |
| U1 | 503+41.04 | 22.78 | LT | CLEANOUT | 687.57 | 685.07 | 78.3 | 0.50% |
| | 502+67.74 | 10.77 | LT | EXISTING MANHOLE | 686.66 | 684.68 | | |
| | | | | | | 684.22 | 137.5 | 0.40% |
| U2 | 501+31.30 | 12.76 | LT | CLEANOUT | 686.77 | 684.77 | | |

RECONSTRUCT ACCESS TAXIWAY PAVEMENTS

IDA No: MQB-4638

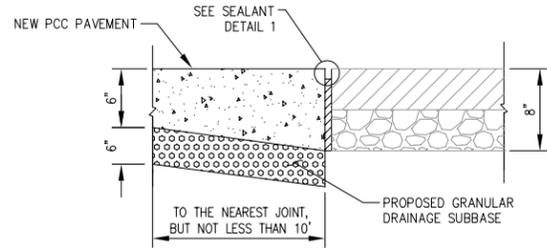
Contract No.: MB032

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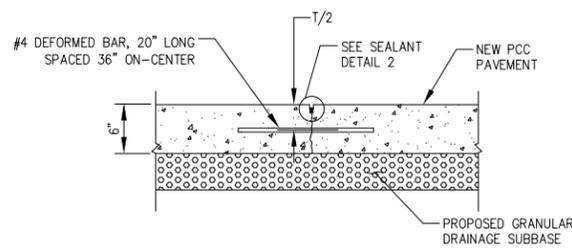
ISSUE: NOVEMBER 16, 2018
PROJECT NO: 18A0084
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DRAWN BY: LDH 8/28/18
REVIEWED BY: KMS 10/16/18

SHEET TITLE

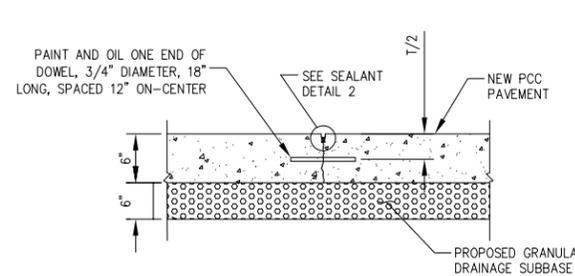
UNDERDRAIN DETAILS AND SCHEDULE



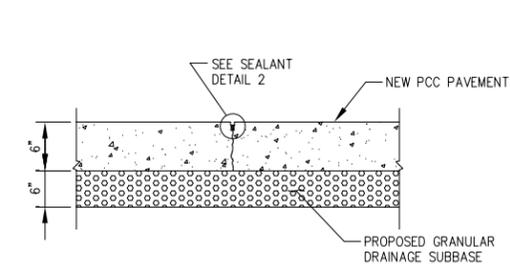
TYPE A - THICKENED EDGE ISOLATION JOINT



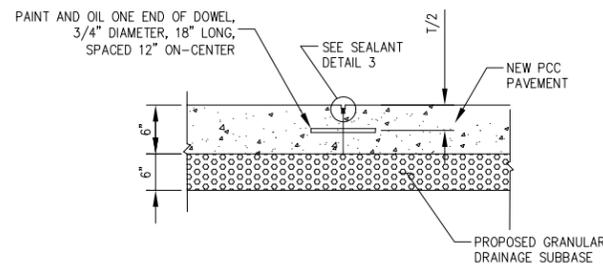
TYPE B - HINGED CONTRACTION JOINT



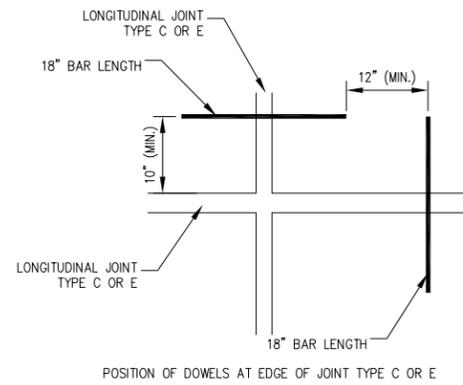
TYPE C - DOWELED CONTRACTION JOINT



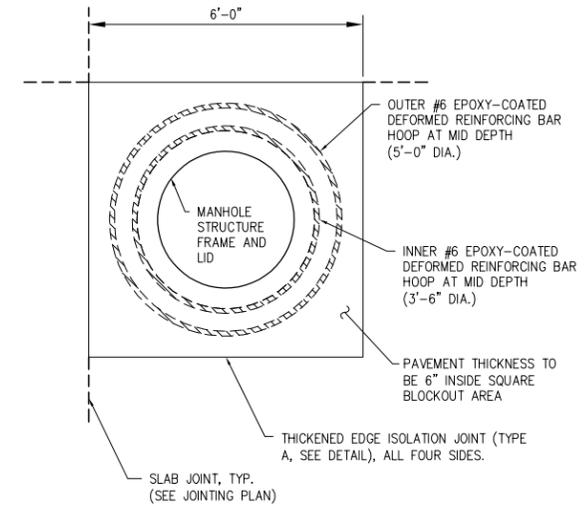
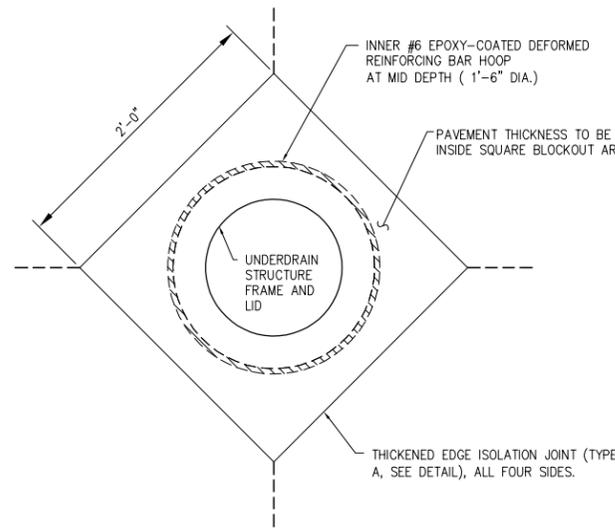
TYPE D - DUMMY CONTRACTION JOINT



TYPE E - DOWELED CONSTRUCTION JOINT



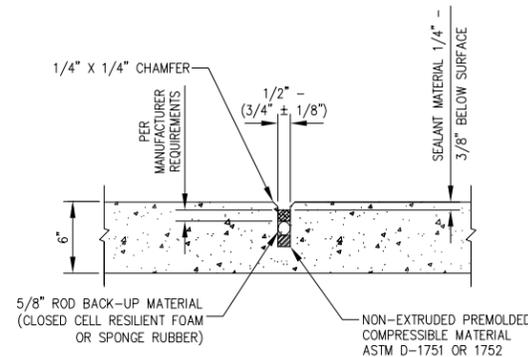
DOWEL PLAN VIEW



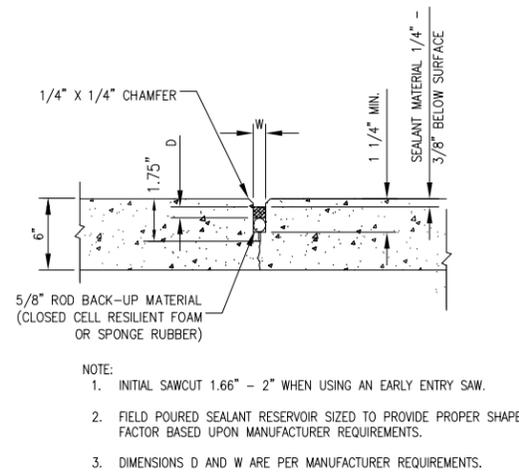
FRAMING NOTES

- HOOP REINFORCEMENT REQUIRED AND SHALL BE ONE PIECE CONSTRUCTION HAVING A MINIMUM LAP LENGTH OF 2'-0\"/>

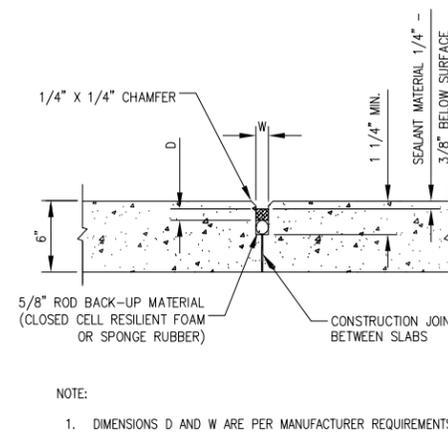
JOINTING AND REINFORCING AT MANHOLES AND UNDERDRAIN CLEANOUTS



DETAIL 1 - SEALANT



DETAIL 2 - SEALANT



DETAIL 3 - SEALANT

NOTE:
ALL JOINT SEALING TO BE INCIDENTAL TO ITEM AR501506 6" PCC PAVEMENT

RECONSTRUCT ACCESS TAXIWAY PAVEMENTS

IDA No: MQB-4638

Contract No.: MB032

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ISSUE: NOVEMBER 16, 2018
PROJECT NO: 18A0084
CAD FILE: 12-JOINTINGDET.DWG
DESIGN BY: LDH 8/24/18
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REVIEWED BY: KMS 10/16/18

SHEET TITLE

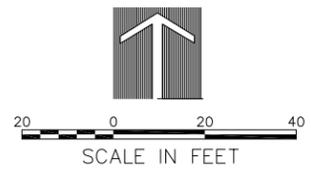
JOINTING DETAILS



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NOTES:

1. GLASS SPHERES ARE REQUIRED FOR ALL YELLOW MARKINGS. GLASS SPHERES ARE NOT REQUIRED FOR BLACK MARKINGS.
2. EPOXY MARKINGS SHALL BE USED ON ALL PAVEMENT.
3. ALL MARKING ON PCC PAVEMENT SHALL HAVE A 6" BLACK BORDER.
4. ALL BLACK MARKINGS SHALL BE WATERBORNE.
5. WAITING TIME FOR APPLICATION OF MARKINGS SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS AND THE SPECIAL PROVISIONS INCLUDING ITEM 620.
6. SURFACE PREPARATION SHALL BE COMPLETED USING WATER BLASTING. SANDBLASTING SHALL NOT BE PERMITTED.



RECONSTRUCT ACCESS TAXIWAY PAVEMENTS

IDA No: MQB-4638

Contract No.: MB032

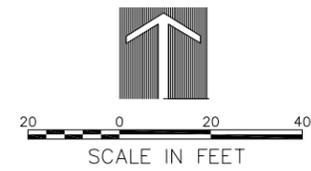
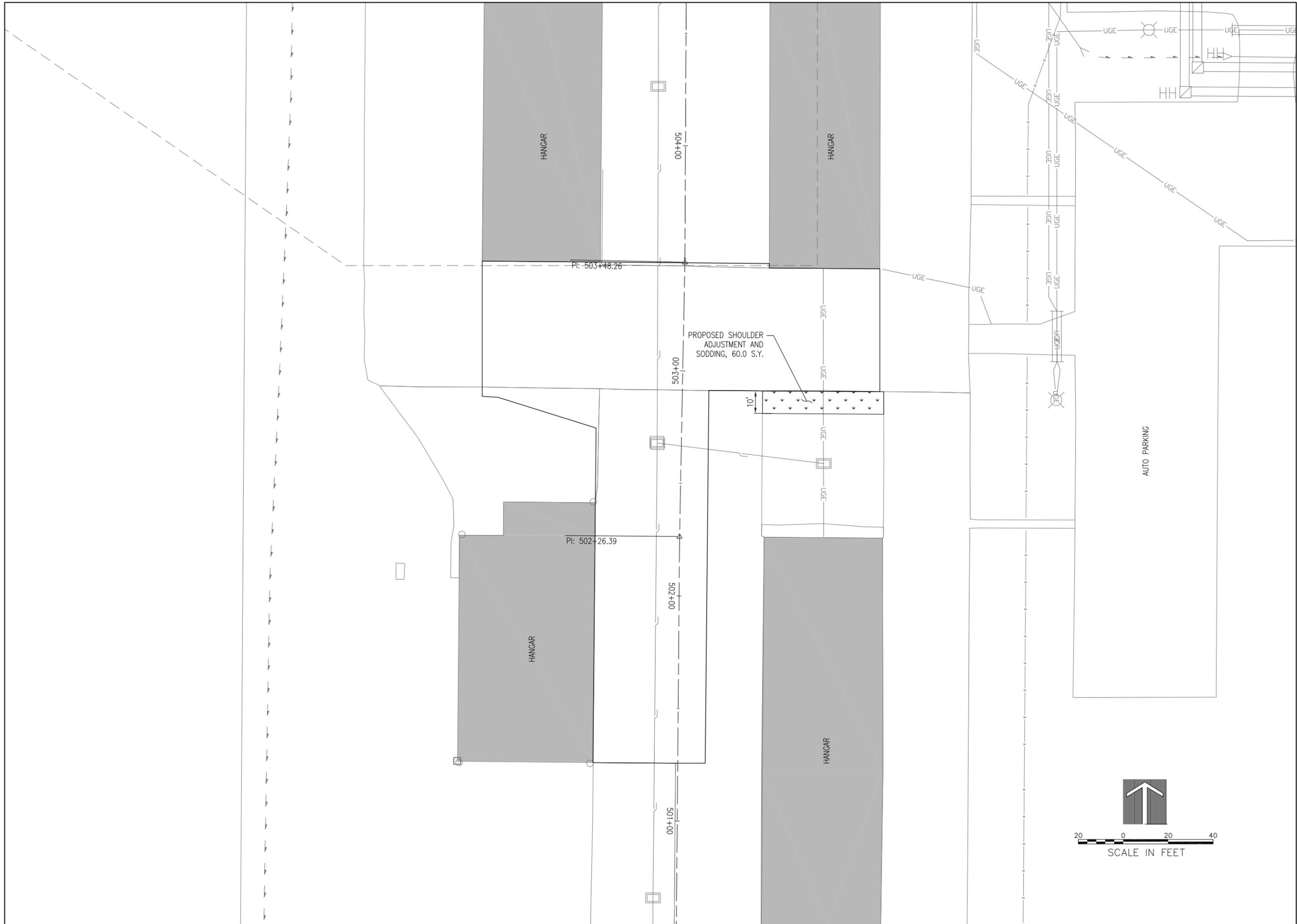
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MARKING PLAN

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**RECONSTRUCT ACCESS
TAXIWAY PAVEMENTS**

IDA No: MQB-4638

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SHEET TITLE

LANDSCAPING PLAN