LETTING ITEM NO. 04A IDOT LETTING NOVEMBER 11, 2022

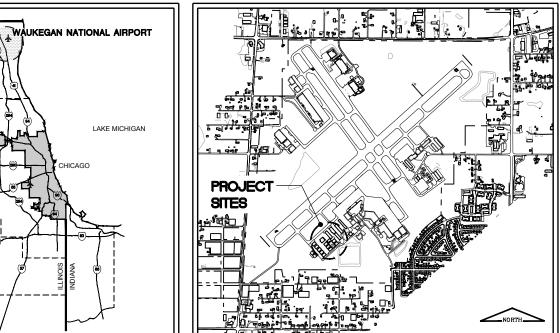
# WAUKEGAN PORT DISTRICT WAUKEGAN, LAKE COUNTY, ILLINOIS

## CONSTRUCTION PLANS FOR WAUKEGAN NATIONAL AIRPORT

## REHABILITATE HANGAR PAVEMENTS IN SOUTH HANGAR AREA - PHASE 1

### ILLINOIS PROJECT: UGN-4969 S.B.G. PROJECT: 3-17-SBGP-184

SEPTEMBER 23, 2022



Call before you dig INFORMATION FOR EXCAVATORS www.illinois1call.com THE LOCATION, SIZE AND TYPE OF MATERIAL OF EXISTING UNDERGROUND UTILITIES INDICATED ON THE PLANS IS NOT REPRESENTED AS BEING ACCURATE, SUFFICIENT OR COMPLETE IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ACTUAL LOCATIONS OF ALL SUCH FACILITIES, INCLUDING SERVICE CONNECTIONS TO UNDERGROUND UTILITIES. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY UTILITY COMPANIES OF HIS OPERATIONAL PLANS OBTAIN FROM RESPECTIVE UTILITY COMPANIES DETAILED INFORMATION AND ASSISTANCE BELATIVE 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 JUBISDICTION AND THE ONE-CALL NOTICE SYSTEM. THE ENGINEER SHALL ALSO BE IMMEDIATELY NOTIFIED. ANY SUCH UTILITY OR SERVICES SHALL BE RESTORED TO SERVICE AT ONCE AND PAID FOR BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE CONTRACT CALL J.U.L.I.E. FOR UTILITY INFORMATION AT 811 WAUKEGAN NATIONAL AIRPORT WAUKEGAN PORT DISTRICT VAUKEGAN 2601 Plane Rest Drive NATIONAL Waukegan, Illinois 60087 ATRPOR' Telephone: 847.244.0055 Fax: 847.244.3813 APPROVED BY SKIP GOSS, GENE

SEPTEMBER 23

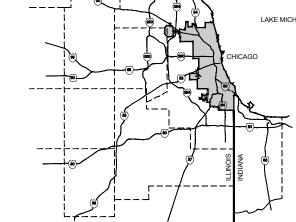
2022

J.U.L.I.E.

now what's below.

DATE

JOINT UTILITY LOCATING



LOCATION MAP

LAKE

WISCONSIN

ILLINOIS

PROJECT

LOCATION

SITE PLAN

### WA078 TOTAL SHEETS = 20

CALL J.U.L.I.E. BEFORE EXCAVATING AT 811 WAUKEGAN NATIONAL AIRPORT

> TOWNSHIP: 46 NORTH RANGE: 12 EAST SECTION: 31 AND 32 COUNTY: LAKE TOWNSHIP: BENTON

### DESIGN INFORMATION

DESIGN AIRCRAFT APPROACH CATEGORY B DESIGN AIRCRAFT GROUP I

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CRAWFORD, MURPHY & TI CONSULTING ENGINEERS License No. 184-000613	LLY, INC.	CRAIG A. LOUDEN 062-058753
SUBMITTED BY	CRAKE LOUDEN, P.E.	Exp 11/20/2023
DATE	SEPTEMBER 23	2022

### INDEX TO SHEETS

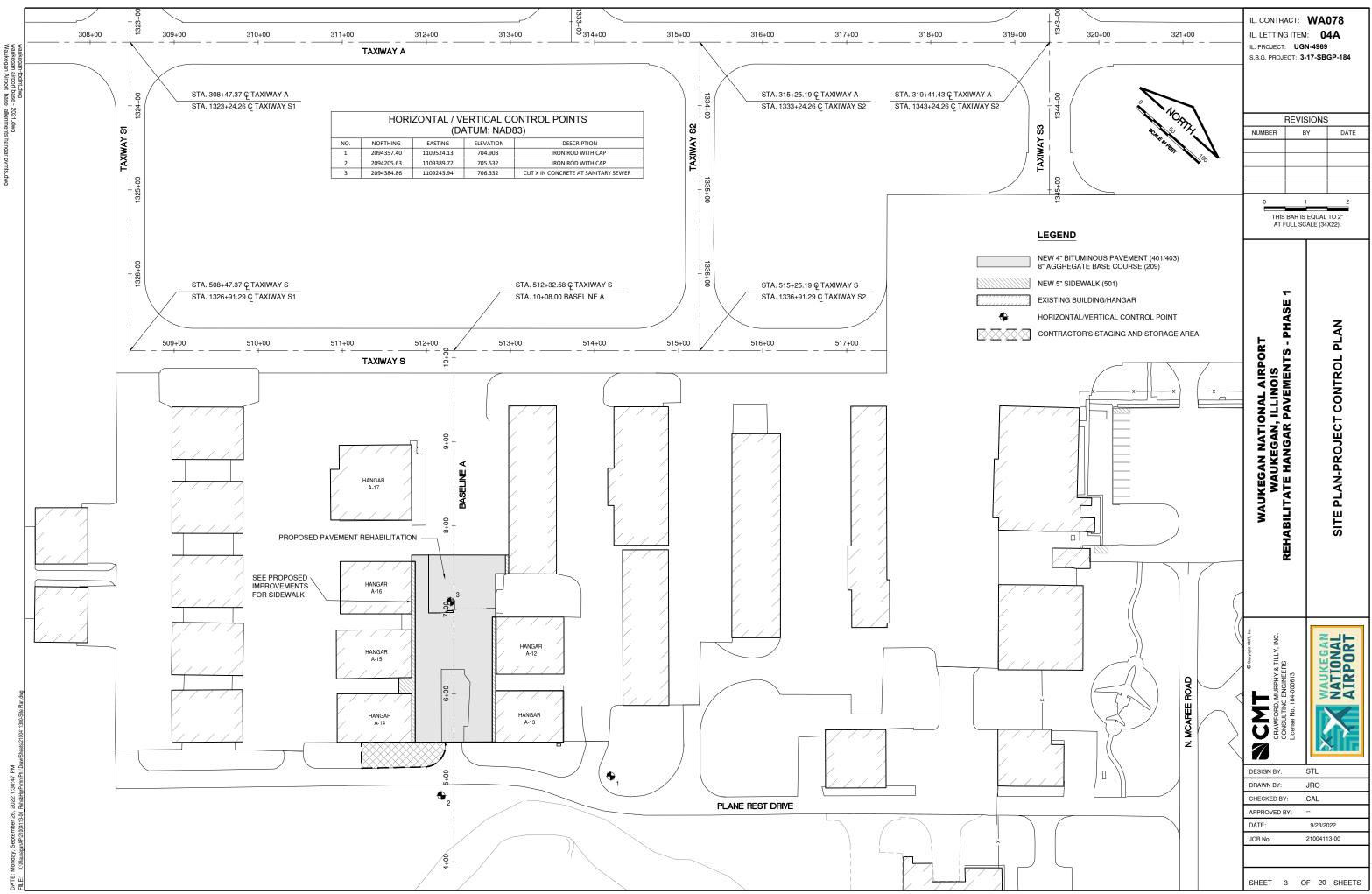
### <u>SHEET</u> NUMBER

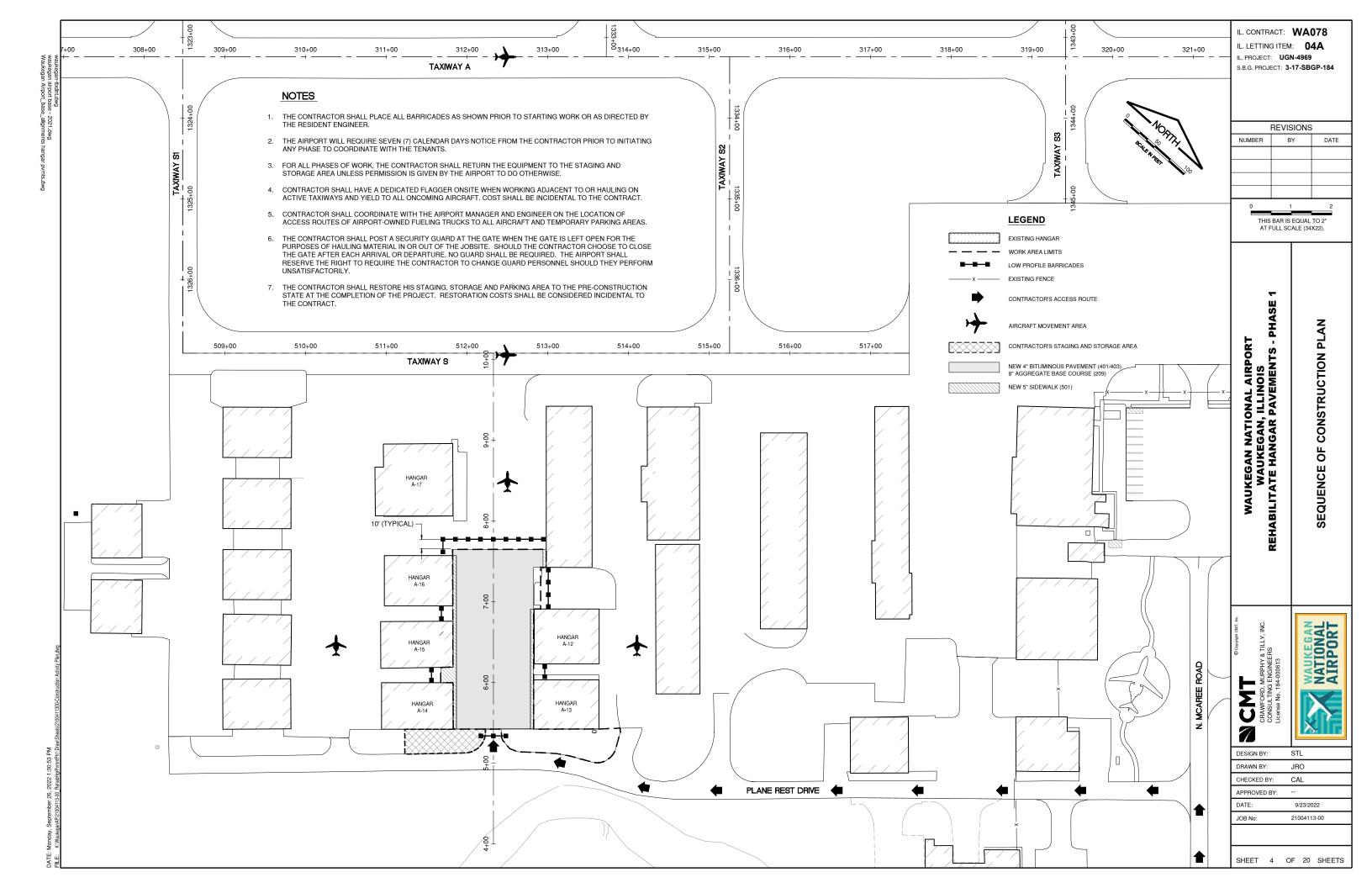
## MBER SHEET TITLE

- 1 COVER SHEET
- 2 INDEX TO SHEETS-SUMMARY OF QUANTITIES
- 3 SITE PLAN-PROJECT CONTROL PLAN
- 4 SEQUENCE OF CONSTRUCTION PLAN
- 5 SEQUENCE OF CONSTRUCTION GENERAL NOTES AND DETAILS 1
- 6 SEQUENCE OF CONSTRUCTION GENERAL NOTES AND DETAILS 2
- 7 EXISTING CONDITIONS PROPOSED REMOVALS
- 8 PROPOSED IMPROVEMENTS
- 9 STORM WATER POLLUTION PREVENTION PLAN
- 10 STORM WATER POLLUTION PREVENTION PLAN DETAILS
- 11 TYPICAL SECTIONS
- 12 GRADING PLAN
- 13 DRAINAGE PLAN
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- 15 DRAINAGE AND MISCELLANEOUS DETAILS
- 16 INDEX TO CROSS SECTIONS EARTHWORK SUMMARY
- 17 CROSS SECTIONS 1
- 18 CROSS SECTIONS 2
- 19 LANDSCAPING AND MARKING PLAN
- 20 GEOTECHNICAL ENGINEERING INFORMATION

SUMMARY OF QUANTITIES							
ITEM	DESCRIPTION	UNIT	ESTIMATED QUANTITY	RECORD QUANTITY			
AR150510	ENGINEER'S FIELD OFFICE	LSUM	1				
AR150520	MOBILIZATION	LSUM	1				
AR152410	UNCLASSIFIED EXCAVATION	CU YD	520				
AR152511	SUBGRADE REPAIR	SQ YD	1,170				
AR152540	SOIL STABILIZATION FABRIC	SQ YD	2,340				
AR156510	SILT FENCE	FOOT	300				
AR156520	INLET PROTECTION	EACH	4				
AR156531	EROSION CONTROL BLANKET	SQ YD	1,210				
AR209608	CRUSHED AGG. BASE COURSE - 8"	SQ YD	2,340				
AR401610	BITUMINOUS SURFACE COURSE	TON	286				
AR401900	REMOVE BITUMINOUS PAVEMENT	SQ YD	1,000				
AR403610	BITUMINOUS BASE COURSE	TON	286				
AR501605	5" PCC SIDEWALK	SQ FT	1,840				
AR501900	REMOVE PCC PAVEMENT	SQ YD	1,700				
AR602510	BITUMINOUS PRIME COAT	GALLON	705				
AR603510	BITUMINOUS TACK COAT	GALLON	355				
AR620520	PAVEMENT MARKING - WATERBORNE	SQ FT	210				
AR701006	6" PVC STORM SEWER	FOOT	205				
AR701512	12" RCP, CLASS N	FOOT	203				
AR701900	REMOVE PIPE	FOOT	100				
AR705524	4" PERFORATED UNDERDRAIN W/SOCK	FOOT	217				
AR751540	MANHOLE 4'	EACH	4				
AR751943	ADJUST MANHOLE	EACH	1				
AR751903	REMOVE MANHOLE	EACH	1				
AR770506	6" SANITARY SEWER	FOOT	8				
AR770900	REMOVE SANITARY SEWER	FOOT	8				
AR800152	EXPLORATORY TRENCH	FOOT	150				
AR901510	SEEDING	ACRE	0.25				

CHECKED BY: CHECKED BY: DATE: DAT		item: UGN-49	04A 69 BBGP-184
DESIGN BY: STL DRAWN BY: JRO CHECKED BY: CAL APPROVED BY: - DATE: 9/23/2022	WAUKEGAN NATIONAL AIRPORT WAUKEGAN, ILLINOIS	ADILITATE JANGAR FAVEMENTS - 11495	TO SHEETS-SUMMARY OF QUANTITI
DRAWN BY:         JRO           CHECKED BY:         CAL           APPROVED BY:            DATE:         9/23/2022	<b>CAN</b> CRAWFORD, MURPHY 6 CONSULTING ENGINEE		AIRPORT
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### GENERAL

- THE CONTRACTOR AND ALL SUBCONTRACTORS SHALL FOLLOW THE REQUIREMENTS OF THE AIRPORT'S APPROVED CONSTRUCTION SAFETY AND PHASING PLAN (CSPP) FAA AC 150/5370-2G OR LATEST EDITION, AND ALL AIRPORT SAFETY AND SECURITY REQUIREMENTS.
- PRIOR TO THE NOTICE TO PROCEED, THE CONTRACTOR SHALL 2. SUBMIT TO THE AIRPORT THROUGH THE RESIDENT ENGINEER, FOR APPROVAL A SAFETY PLAN COMPLIANCE DOCUMENT (SPCD) IN ACCORDANCE WITH FAA AC 150/5370-2G OR LATEST EDITION. NO CONSTRUCTION ACTIVITY SHALL BEGIN UNTIL THE AIRPORT HAS APPROVED THE SPCD
- THE CSPP COVERS OPERATIONAL SAFETY. THE CONTRACTOR З. SHALL BE RESPONSIBLE FOR THE INDIVIDUAL SAFETY OF HIS/HER PERSONNEL AND MEETING OSHA REQUIREMENTS
- A MINIMUM OF 10 DAYS PRIOR TO THE NOTICE TO PROCEED THE CONTRACTOR SHALL PROVIDE A LIST OF SUBCONTRACTORS AND MATERIAL SUPPLIERS
- ALL CONTRACTOR COSTS ASSOCIATED WITH THE REQUIREMENTS. LISTED ON THIS SHEET SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT

### 1. COORDINATION

- PRIOR TO THE START OF CONSTRUCTION THE CONTRACTOR 1. SHALL ATTEND A PRE-CONSTRUCTION CONFERENCE WITH THE AIRPORT, RESIDENT ENGINEER, AND ILLINOIS DIVISION OF AERONAUTICS (IDA). THE COST OF PREPARING FOR AND ATTENDING THE PRE-CONSTRUCTION CONFERENCE SHALL BE INCIDENTAL TO THE CONTRACT.
- 2. ON OR BEFORE THE PRE-CONSTRUCTION CONFERENCE, THE CONTRACTOR SHALL SUBMIT A PROPOSED SCHEDULE FOR THE PROJECT. THE SCHEDULE SHALL INCLUDE A START AND COMPLETION DATE FOR EACH ITEM OF WORK. THE SCHEDULE SHALL BE UPDATED ON A WEEKLY BASIS. ALL COSTS ASSOCIATED WITH THE SCHEDULE SHALL BE INCIDENTAL TO THE CONTRACT.
- DURING CONSTRUCTION THE CONTRACTOR SHALL ATTEND A WEEKLY COORDINATION MEETING WITH THE AIRPORT STAFF AND RESIDENT ENGINEER. ALL COSTS ASSOCIATED WITH ATTENDING THE WEEKLY MEETING SHALL BE INCIDENTAL TO THE CONTRACT

### 2. PHASING

- TOTAL CONTRACT TIME SHALL BE 61 CALENDAR DAYS. 1
- WORK SHALL BE COMPLETED UNDER ONE PHASE AS SHOWN ON 2. THE SEQUENCE OF CONSTRUCTION PLAN SHEETS.

### WORK AREAS AND DESCRIPTIONS 3.

COMPLETE INITIAL MOBILIZATION STAGING AREA PREPARATION AND LAYOUT IN ORDER TO PROCEED WITH THE REMOVAL OF THE EXISTING PAVEMENT AND EROSION CONTROL MEASURES. INSTALL THE NEW BITUMINOUS PAVEMENT AND COMPLETE LANDSCAPING AND GENERAL IMPROVEMENTS

3. AREAS AND OPERATIONS AFFECTED BY THE CONSTRUCTION ACTIVITY

- ALL RUNWAYS, TAXIWAYS AND APRONS SHALL BE KEPT OPEN TO AIRCRAFT TRAFFIC DURING CONSTRUCTION EXCEPT AS NOTED ON THE PHASING PLAN.
- WHEN CONFLICTS ARISE BETWEEN CONSTRUCTION ACTIVITIES AND AIRCRAFT OPERATIONS AND SAFETY, AIRCRAFT OPERATIONS AND SAFETY SHALL TAKE PRECEDENCE AND SHALL GOVERN. FINAL AUTHORITY IN THE APPROVAL OF CONSTRUCTION SEQUENCING LIES WITH THE AIRPOR
- ALL CONSTRUCTION TRAFFIC SHALL IMMEDIATELY YIELD TO ONCOMING AIRCRAFT AT ALL TIMES.

### 4. NAVAIDS THAT COULD BE AFFECTED

- THE CONTRACTOR MUST COORDINATE WITH AIRPORT OPERATIONS/ENGINEER IN ADVANCE FOR ANY WORK WITHIN A NAVAID CRITICAL AREA OR AFFECTING THE VISUAL, TRANSMITTED SIGNAL OR POWER SUPPLY OF A NAVAID.
- 2. EDGE LIGHTS, THRESHOLD LIGHTS, VISUAL AIDS AND ALL ILS EQUIPMENT SHALL BE SHUT OFF FOR THE DURATION OF A CLOSURE PERIOD ON ANY ASSOCIATED PAVEMENTS. JE THE LIGHTING CIRCUIT MUST BE ON FOR OPEN PAVEMENT AREAS, CLOSED PAVEMENT AREA LIGHTS SHALL BE COVERED COMPLETELY.
- 3. EXCEPT WHERE NOTED IN THE PLANS, EXISTING COMMUNICATIONS FOUIPMENT AND NAVIGATIONAL AIDS (NAVAIDS) SHALL NOT BE DISTURBED BY THE CONTRACTOR AND SHALL BE PROTECTED FROM DAMAGE
- 4. PRIOR TO BEGINNING SITE WORK, CONTRACTOR SHALL COORDINATE THROUGH AIRPORT OPERATIONS TO LOCATE, AND THE CONTRACTOR TO MARK ALL UNDERGROUND COMMUNICATIONS CABLES AND FACILITIES. WITHIN THE PROJECT AREA.
- 5. IF CONTRACTOR CAUSES INTERRUPTION OF POWER OR COMMUNICATIONS TO A NAVAID CONTRACTOR SHALL REPAIR WITHIN 24 HOURS AT THE CONTRACTOR'S COST. CONTRACTOR MUST COORDINATE REPAIR WITH AIRPORT OPERATIONS BEFORE ANY REPAIR IS MADE

5. CONTRACTOR ACCESS

CONTRACTOR ACCESS SHALL BE AS NOTED BELOW AND AS SHOWN ON THE SITE PLAN AND CONSTRUCTION ACTIVITY PLAN SHEETS, ALL COSTS BELATING TO CONTRACTOR'S ACCESS AND SECURITY SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

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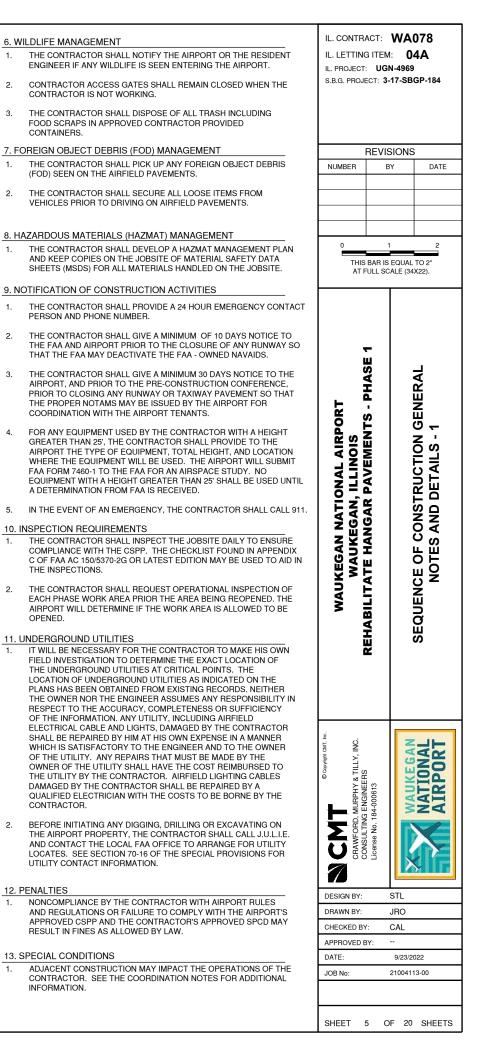
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OPENED

- THE CONTRACTOR IS TO ACCESS THE SITE USING THE ROUTES 2. AND GATE(S) SHOWN, THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING THE ACCESS GATE CLOSED DURING WORK HOURS.
- CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND TEMPORARY EASEMENTS FOR THE PUBLIC ACCESS ROAD(S) SHOWN AND SHALL COMPLY WITH ALL REQUIREMENTS, LOAD RESTRICTIONS, & TRAFFIC CONTROL SIGNAGE REQUIRED BY THE CITY, COUNTY, TOWNSHIP, OR I.D.O.T.
- CONTRACTOR'S VEHICLES AND FOUIPMENT SHALL BE MARKED 4. AND FLAGGED PER SECTION 70-08 OF THE STANDARD SPECIFICATIONS. MAXIMUM HEIGHT OF CONTRACTOR'S FOUIPMENT WILL BE 25'.
- DRIVERS OF TRUCKS CONTAINING MATERIAL DELIVERIES 5. (AGGREGATE, ASPHALT, ETC.) NEED NOT OBTAIN AN AIRPORT ID BADGE BUT SHALL BE REQUIRED TO SUBMIT THEIR NAME. DRIVER'S LICENSE NUMBER TRUCK LICENSE PLATE NUMBER AND NAME OF TRUCKING COMPANY TO THE PRIME CONTRACTOR PRIOR TO ENTERING THE JOBSITE. WHILE INSIDE THE AOA FENCE, THE TRUCK DRIVERS SHALL BE ESCORTED BY THE CONTRACTOR PERSONNEL THAT HAS OBTAINED PROPER DRIVING PRIVILEGES.
- CONTRACTOR WORK CREWS MUST MAINTAIN RADIO CONTACT WITH THE WAUKEGAN AIR TRAFFIC CONTROL TOWER GROUND CONTROL (121.65 MHZ) AT ALL TIMES WHEN INSIDE THE AIRPORT OPERATIONS AREA (AOA). THE CONTRACTOR SHALL SUPPLY ALL APPROPRIATE RADIOS NEEDED FOR COMMUNICATIONS AND ONLY HIS PERSONNEL WHO HAVE SUCCESSEULLY SATISFIED THE AIRPORT OF THEIR COMPETENCE MAY OPERATE THESE RADIOS
- THE CONTRACTORS STORAGE AND STAGING AREAS WILL BE AS 7. SHOWN ON THE SITE PLAN.
- THE CONTRACTOR SHALL KEEP A RECORD OF THE NAMES OF ALL 8. EMPLOYEES ENTERING THE JOB SITE ON A DAILY BASIS. A RECORD OF EACH SUBCONTRACTOR ENTERING THE JOB SITE SHALL ALSO BE KEPT BY THE CONTRACTOR
- 9. WHEN THE CONTRACTOR IS NOT WORKING, EQUIPMENT SHALL BE STORED AT THE STAGING AREAS
- 10. DURING ADVERSE WEATHER THE CONTRACTOR SHALL MAINTAIN ACCESS TO THE WORK AT NO ADDITIONAL COST TO THE CONTRACT NO EXTENSION OF THE CONTRACT TIME WILL BE CONSIDERED FOR DELAYS DUE TO LACK OF ADEQUATE ACCESS TO THE WORK SITE
- 11. THE CONTRACTOR WILL BE PERMITTED TO STORE EQUIPMENT AND MATERIALS ONLY AT THE LOCATIONS SHOWN. PARKED EQUIPMENT AND MATERIAL STOCKPILES SHALL NOT PENETRATE SURFACES DEFINED BY F.A.R. TITLE 14 PART 77 - OBJECTS AFFECTINGNAVIGABLE AIRSPACE EXISTING TUBE AREAS DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED BY HIM AT HIS EXPENSE TO THE SATISFACTION OF THE RESIDENT ENGINEER AND THE AIRPORT.
- 12. ALL CONSTRUCTION TRAFFIC OPERATING ON, OR CROSSING RUNWAYS, TAXIWAYS AND APRONS OPEN TO AIRCRAFT TRAFFIC SHALL BE UNDER CONTROL BY A FLAGMAN OR ESCORT IN RADIO CONTACT WITH THE COMMON TRAFFIC ADVISORY FREQUENCY. THE CONTRACTOR SHALL PROVIDE HIS OWN FLAGMEN
- 13. THE CONTRACTOR SHALL THOROUGHLY CLEAN ALL CONSTRUCTION AREAS AND HAUL ROUTES WHICH WILL BE OPENED TO VEHICLE AND AIR TRAFFIC TO THE SATISFACTION OF AIRPORT OPERATIONS OR THE RESIDENT ENGINEER. A POWER BROOM AND OPERATOR SHALL BE ON SITE AT ALL TIMES WHEN ACTIVE PAVEMENTS ARE UTILIZED FOR CONSTRUCTION TRAFFIC.
- 14. ALL PAVEMENTS, DRIVES OR ANY OTHER AREAS UTILIZED BY THE CONTRACTOR FOR HAUL ROADS OR STORAGE AREAS SHALL BE MAINTAINED AND REPAIRED TO THE SAME CONDITION OR BETTER THAN THEY WERE PRIOR TO BEGINNING CONSTRUCTION NO ADDITIONAL COMPENSATION WILL BE MADE TO THE CONTRACTOR FOR THIS WORK
- 15. ALL VEHICLE AND EQUIPMENT OPERATORS USED BY THE CONTRACTOR SHALL BE PROPERLY TRAINED BY THE CONTRACTOR
- THE CONTRACTOR SHALL NOTIFY THE AIRPORT IF CONSTRUCTION 16. ACTIVITY WILL REQUIRE THE BLOCKAGE OF EMERGENCY ACCESS TO THE AIRPORT

13. SPECIAL CONDITIONS

2.



### 14. RUNWAY AND TAXIWAY VISUAL AIDS

- ALL RUNWAYS, TAXIWAYS, AND APRONS SHALL BE KEPT OPEN TO AIRPORT TRAFFIC DURING CONSTRUCTION EXCEPT AS NOTED IN THE CONSTRUCTION ACTIVITY PLAN
- IF ANY RUNWAY OR TAXIWAY CLOSURES ARE REQUESTED BY THE CONTRACTOR AND APPROVED BY THE AIRPORT. THE CONTRACTOR SHALL USE MARKING. LIGHTING AND SIGNS THAT FOLLOWING THE REQUIREMENTS OF FAA AC 150/5370-2G OR LATEST EDITION.
- 15. MARKING AND SIGNS FOR ACCESS ROUTES
- BARRICADES AND SIGNS SHALL BE USED ALONG THE CONTRACTOR'S ACCESS ROUTE AS DETAILED ON THE CONSTRUCTION ACTIVITY PLAN SHEETS.

### 16. HAZARD MARKING AND LIGHTING

- THE CONTRACTOR SHALL FURNISH, ERECT, AND MAINTAIN MARKINGS AND ASSOCIATED LIGHTING OF OPEN TRENCHES, EXCAVATIONS, TEMPORARY STOCKPILES, AND HIS/HER CONSTRUCTION EQUIPMENT.
- ALL CONSTRUCTION EQUIPMENT SHALL BE FLAGGED AND/OR LIGHTED IN ACCORDANCE WITH FAA ADVISORY CIRCULAR 150/5370-2G AND 150/5210-5C OR LATEST EDITION AT ALL TIMES WHILE OPERATING ON AIRPORT PROPERTY. THE MAXIMUM EQUIPMENT HEIGHT IS 25
- BARRICADES SHALL BE PLACED AT THE LOCATIONS SHOWN ON THE 3 CONSTRUCTION ACTIVITY PLAN SHEET OR AS DIRECTED BY THE ENGINEER.
- THE CONTRACTOR SHALL INSPECT THE BARRICADES ONCE DURING EACH WORK DAY TO INSURE PROPER PLACEMENT AND PROPER OPERATION OF THE RED LIGHTS AND FLAG PLACEMENT.

### 17. WORK ZONE LIGHTING FOR NIGHTTIME CONSTRUCTION

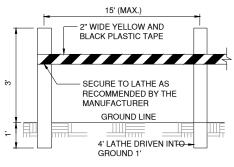
- WORK PERFORMED BY THE CONTRACTOR OUTSIDE OF DAYLIGHT HOURS SHALL BE DONE UNDER SUFFICIENT ARTIFICIAL AREA LIGHTING TO ALLOW FOR 1. PROPER CONSTRUCTION METHODS AND INSPECTION
- LIGHTS SHALL CONSIST OF VEHICLE OR MOVABLE POLE MOUNTED FLOODLIGHTS AND/OR SPOTLIGHTS OF SUFFICIENT NUMBER TO ILLUMINATE 2. THE WORK AREA. VEHICLE HEADLIGHTS WILL BE ALLOWED ONLY IN ADDITION TO OTHER LIGHTS MENTIONED ABOVE. LIGHTING SHALL NOT INTERFERE WITH AIR OPERATIONS. ANY WORK BEING PERFORMED UNDER INSUFFICIENT ARTIFICIAL LIGHTING, IN THE RESIDENT ENGINEER'S JUDGEMENT, SHALL BE STOPPED UNTIL SUCH TIME AS ADDITIONAL LIGHTING IS PROVIDED. ALL WORK PERFORMED DURING THAT TIME WILL NOT BE ACCEPTABLE UNTIL PROPER INSPECTION AND TESTING CAN BE MADE.

### 18. PROTECTION

- 1. ALL WORK REQUIRED INSIDE OF A RUNWAY SAFETY AREA, WILL REQUIRE THE RUNWAY TO BE CLOSED
- 2. ALL WORK REQUIRED ON AN ACTIVE TAXIWAY OR INSIDE OF AN ACTIVE TAXIWAY OBJECT FREE AREA, WILL REQUIRE THE TAXIWAY TO BE CLOSED.

### 19. OTHER LIMITATIONS ON CONSTRUCTION

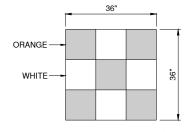
- IF, DURING CONSTRUCTION, AN EMERGENCY IS DECLARED BY THE AIRPORT, THE CONTRACTOR SHALL IMMEDIATELY CLEAR THE PAVEMENT OF ALL VEHICLES, PERSONNEL AND EQUIPMENT IF DIRECTED BY THE AIRPORT.
- BROKEN CONCRETE, BROKEN ASPHALT, RUBBISH FROM DEMO, AND OTHER MISCELLANEOUS DEBRIS SHALL BE DISPOSED OF OFF AIRPORT PROPERTY, 2. UNLESS OTHERWISE SPECIFIED.
- THE CONTRACTOR WILL BE RESPONSIBLE FOR COORDINATING THE AIRSPACE FOR THE CONSTRUCTION EQUIPMENT THAT IS TALLER THAN THAT SPECIFIED ON THE PLANS WITH THE FAA. THIS PROCESS MAY TAKE UP TO 12 WEEKS TO COMPLETE
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MEGGAR TESTING ALL EXISTING 4. CIRCUITS PRIOR TO CONSTRUCTION AND FOLLOWING CONSTRUCTION AS SPECIFIED IN THE CONTRACT DOCUMENTS.



### LATHING AND WARNING TAPE DETAIL

NOT TO SCALE

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



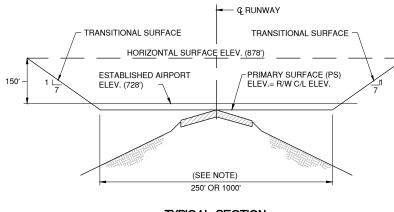
CONSTRUCTION EQUIPMENT AND TRUCK SIGNAL FLAG NOT TO SCALE



### TYPICAL PROFILE F.A.R. PART 77 IMAGINARY SURFACES

NO SCALE

RUNWAY END	ELEVATION	APPROACH SLOPE
5	724.7	34:1
23	723.1	50:1
14	727.6	20:1
32	712.1	20:1

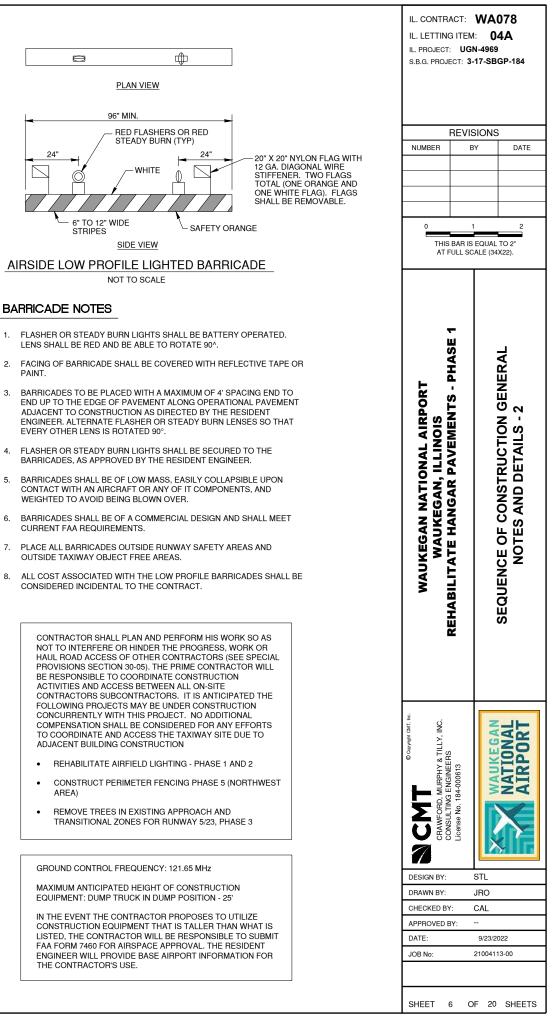


### TYPICAL SECTION F.A.R. PART 77 IMAGINARY SURFACES

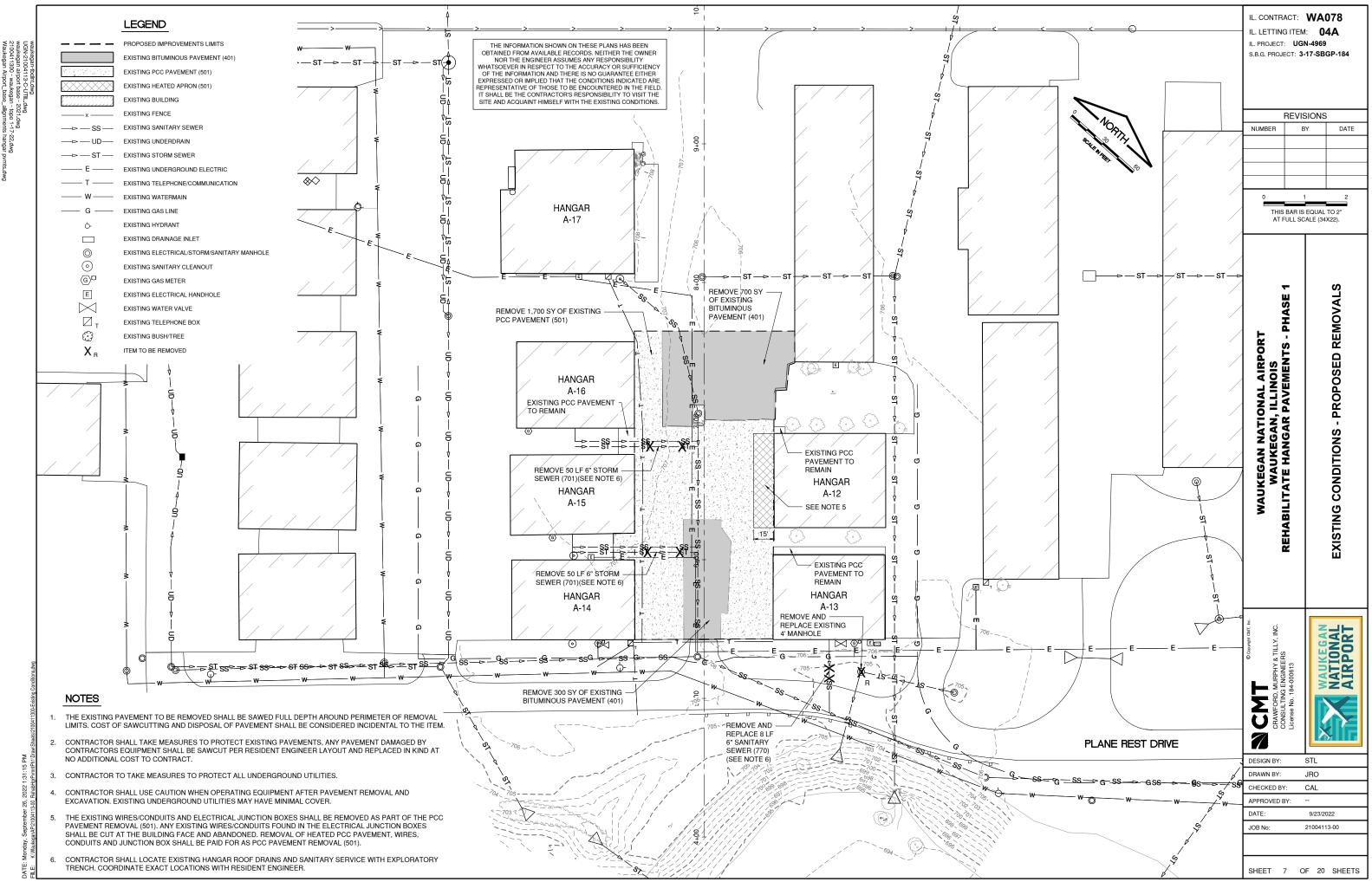
### NO SCALE

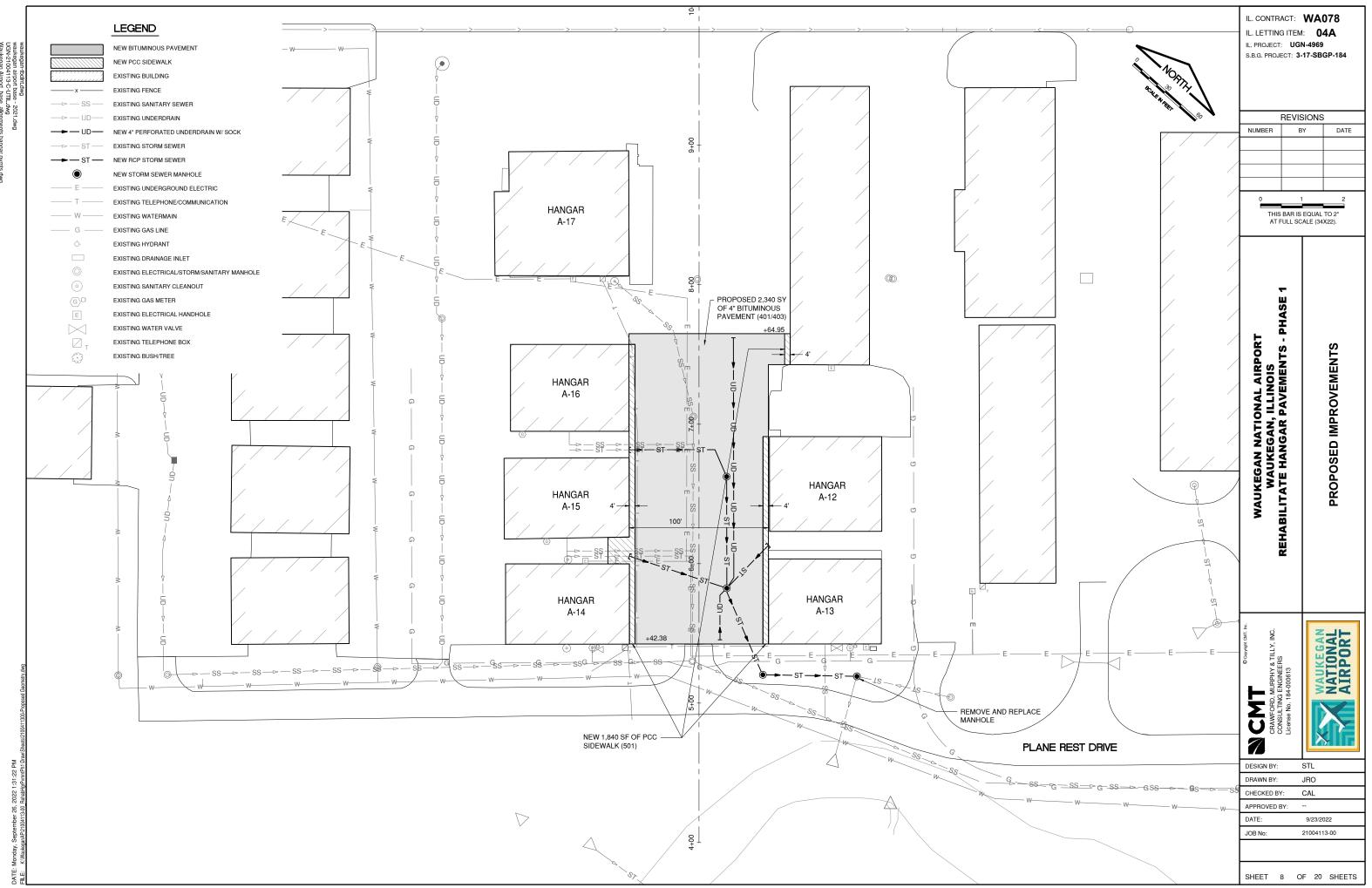
NOTE:

IMAGINARY SURFACE REQUIREMENTS FOR EXISTING ACTIVE RUNWAYS (R/W) ARE SIMILAR EXCEPT PRIMARY SURFACE (PS) DIMENSIONS VARY RUNWAY 14-32 250' PS (125' LT & RT OF CENTERLINE) RUNWAY 5-23 1000' PS (500' LT & RT OF CENTERLINE)



### BARRICADE NOTES





airport base - 2021 4113-C-UTIL.dwg Airport\_base\_aligi

### STORM WATER POLLUTION PREVENTION PLAN

THE FOLLOWING PLAN IS ESTABLISHED AND INCORPORATED IN THE PROJECT TO DIRECT THE CONTRACTOR IN THE PLACEMENT OF TEMPORARY EROSION CONTROL SYSTEMS AND TO PROVIDE A STORM WATER POLLUTION PREVENTION PLAN FOR COMPLIANCE WITH NPDES

THE PURPOSE OF THIS PLAN IS TO MINIMIZE EROSION WITHIN THE CONSTRUCTION SITE AND TO LIMIT SEDIMENTS FROM LEAVING THE SITE BY UTILIZING PROPER TEMPORARY EROSION CONTROL SYSTEMS AND PROVIDING GROUND COVER WITHIN A REASONABLE AMOUNT OF TIME

CERTAIN EROSION CONTROL FACILITIES SHALL BE INSTALLED BY THE CONTRACTOR AT THE BEGINNING OF CONSTRUCTION. OTHER ITEMS SHALL BE INSTALLED BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER ON A CASE BY CASE SITUATION DEPENDING ON THE CONTRACTOR'S SEQUENCE OF ACTIVITIES, TIME OF YEAR, AND EXPECTED WEATHER CONDITIONS.

THE CONTRACTOR SHALL INSTALL PERMANENT EROSION CONTROL SYSTEMS AND SEEDING WITHIN A TIMEERAME SPECIFIED THE CONTRACTOR STALL INSTALL FERMINIENT EROSION CONTROL STOTEMS AND SECURING WITH A TIME A TIME AT BURGHED HEREIN AND AS DIRECTED BY THE ENGINEER, THEREFORE MINIMIZING THE AMOUNT OF AREA SUSCEPTIBLE TO EROSION AND REDUCING THE AMOUNT OF TEMPORARY SEEDING, WHICH WILL BE THE CONTRACTOR'S COST. THE ENGINEER WILL DETERMINE IF ANY TEMPORARY EROSION CONTROL SYSTEMS SHOWN IN THE PLAN CAN BE DELETED AND IF ANY ADDITIONAL TEMPORARY EROSION CONTROL SYSTEMS, WHICH ARE NOT INCLUDED IN THIS PLAN, SHALL BE ADDED. THE CONTRACTOR SHALL PERFORM ALL WORK AS DIRECTED BY THE ENGINEER AND AS SHOWN ON THE PLANS.

### SITE DESCRIPTION

THE FOLLOWING IS A DESCRIPTION OF THE CONSTRUCTION ACTIVITY WHICH IS THE SUBJECT OF THIS PLAN

THIS PROJECT CONSISTS OF REHABILITATING PAVEMENT AND DRAINAGE IMPROVEMENTS AT WALKEGAN NATIONAL AIRPORT

THE FOLLOWING IS A DESCRIPTION OF THE INTENDED SEQUENCE OF MAJOR ACTIVITIES WHICH WILL DISTURB SOILS FOR MAJOR PORTIONS OF THE CONSTRUCTION SITE, SUCH AS EXCAVATION AND GRADING

- 1. INSTALL AND MAINTAIN TEMPORARY EROSION CONTROL MEASURES.
- 2. CONSTRUCT TEMPORARY CONCRETE WASHOUT
- 3. REMOVE EXISTING PAVEMENT
- 4. EXCAVATION FOR NEW PAVEMENT
- 5. INSTALL STORM SEWER
- 6. CONSTRUCT NEW HMA PAVEMENT AND PCC SIDEWALK
- 7. FINAL GRADING AND OTHER MISCELLANEOUS ITEMS
- 8. PLACEMENT OF PERMANENT EROSION CONTROL, SUCH AS SEEDING AND BLANKET

### AREA OF CONSTRUCTION SITE

THE TOTAL AREA OF THE CONSTRUCTION SITE IS ESTIMATED TO BE LESS THAN AN ACRE DISTURBED BY EXCAVATION, GRADING AND OTHER ACTIVITIES

THER REPORTS, STUDIES AND PLANS WHICH AID IN THE DEVELOPMENT OF THE STORM WATER POLLUTION PREVENTION PLAN AS REFERENCED DOCUMEN

- INFORMATION OF THE SOILS AND TERRAIN WITHIN THE SITE WAS OBTAINED FROM TOPOGRAPHIC SURVEYS AND SOIL BORINGS THAT WERE UTILIZED FOR THE DEVELOPMENT OF THE PROPOSED TEMPORARY EROSION CONTROL SYSTEMS.
- PROJECT PLAN DOCUMENTS, SPECIFICATION AND SPECIAL PROVISIONS, AND PLAN DRAWINGS INDICATING DRAINAGE PATTERNS AND APPROXIMATE SLOPES ANTICIPATED AFTER GRADING ACTIVITIES WERE UTILIZED FOR THE PROPOSED PLACEMENT OF THE TEMPORARY EROSION CONTROL SYSTEMS.

DRAINAGE TRIBUTARIES AND SENSITIVE AREAS RECEIVING RUNOFF FROM THIS CONSTRUCTION SITE

THE CONSTRUCTION LOCATED IN DES PLANES RIVER WATERSHED. THE SITE DRAINS THROUGH A SERIES OF OVERLAND FLOW ROUTES/STORM SEWER INTO THE SUBURBAN COUNTRY CLUB TRIBUTARY THAT OUTLET INTO ULTIMATELY THE DES PLAINES

### SEDIMENTATION AND EROSION CONTROL NOTES

THE SOIL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE INSPECTED WEEKLY AND AFTER 1/2 INCH OF RAIN OR MORE BY

ALL SOIL EROSION AND SEDIMENT CONTROL PRACTICES ARE REFERENCED FROM THE ILLINOIS URBAN MANUAL, UNLESS OTHERWISE STATED

THE DRAWINGS, SPECIFICATIONS AND SPECIAL PROVISIONS WILL ENSURE THAT EXISTING VEGETATION IS PRESERVED WHERE ATTAINABLE AND DISTURBED PORTIONS OF THE SITE WILL BE STABILIZED. STABILIZATION PRACTICES INCLUDE SEEDING AND MULCHING AS DIRECTED BY THE ENGINEER. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS POSSIBLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORABILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN 7 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORABILY OR PERMANENTLY CEASED

AS SOON AS REASONABLE ACCESS IS AVAILABLE TO ALL LOCATIONS WHERE WATER DRAINS AWAY FROM THE PROJECT, INLET PROTECTION AND PERIMETER SILT FENCE SHALL BE INSTALLED AS CALLED OUT IN THE PLANS OR AS DIRECTED BY THE ENGINEER.

THIS PLAN HAS BEEN PREPARED TO COMPLY WITH THE PROVISIONS OF THE NPDES PERMIT NUMBER II B10. ISSUED BY THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY FOR STORM WATER DISCHARGES FROM CONSTRUCTION SITE ACTIV

DESCRIPTION OF STABILIZATION PRACTICES DURING CONSTRUCTION

DURING CONSTRUCTION, AREAS OUTSIDE THE CONSTRUCTION LIMITS AS OUTLINED PREVIOUSLY HEREIN SHALL BE PROTECTED. THE CONTRACTOR SHALL NOT USE THIS AREA FOR STAGING (EXCEPT AS DESCRIBED ON THE PLANS AND DIRECTED BY THE ENGINEER), PARKING OF VEHICLES OR CONSTRUCTION EQUIPMENT, STORAGE OF MATERIALS, OR OTHER CONSTRUCTION

- WITHIN THE CONSTRUCTION LIMITS, AREAS WHICH MAY BE SUSCEPTIBLE TO EROSION AS DETERMINED BY THE ENGINEER SHALL REMAIN UNDISTURBED UNTIL FULL SCALE CONSTRUCTION IS UNDERWAY TO PREVENT UNNECESSARY SOIL EROSION
- EARTH STOCKPILES SHALL BE TEMPORARILY SEEDED, AT THE CONTRACTORS EXPENSE, IF THEY ARE TO REMAIN UNUSED FOR MORE THAN FOURTEEN DAYS
- AS CONSTRUCTION PROCEEDS, THE CONTRACTOR SHALL INSTITUTE THE FOLLOWING AS DIRECTED BY THE ENGINEER: 2
- A. PLACE TEMPORARY EROSION CONTROL FACILITIES AT LOCATIONS SHOWN ON THE PLANS
- B. EXCAVATED AREAS AND EMBANKMENT AREAS SHALL BE PERMANENTLY SEEDED IMMEDIATELY AFTER FINAL GRADING. IF , THEY SHALL BE TEMPORARILY SEEDED, AT THE CONTRACTOR'S COST, IF NO CONSTRUCTION ACTIVITY IN THE AREA IS PLANNED FOR SEVEN DAYS
- CONSTRUCTION EQUIPMENT SHALL BE STORED AND FUELED ONLY AT DESIGNATED LOCATIONS. ALL NECESSARY MEASURES SHALL BE TAKEN TO CONTAIN ANY FUEL OR POLLUTANT IN ACCORDANCE WITH EPA WATER QUALITY REGULATIONS. LEAKING EQUIPMENT OR SUPPLIES SHALL BE IMMEDIATELY REPAIRED OR REMOVED FROM THE SITE.
- SEDIMENT COLLECTED DURING CONSTRUCTION OF THE VARIOUS TEMPORARY EROSION CONTROL SYSTEMS SHALL BE 5. DISPOSED OF ON SITE ON A BEGULAB BASIS AS DIRECTED BY THE ENGINEER. THE COST OF THIS MAINTENANCE SHALL BE INCLUDED IN THE UNIT BID PRICE FOR UNCLASSIFIED EXCAVATION AND EROSION CONTROL ITEMS
- THE TEMPORARY EROSION CONTROL SYSTEMS SHALL BE REMOVED AS DIRECTED BY THE ENGINEER AFTER USE IS NO. LONGER NEEDED OR NOLONGER FUNCTIONING. THE COST OF THIS REMOVAL SHALL BE INCLUDED IN THE UNIT BID PRICE FOR VARIOUS TEMPORARY EROSION CONTROL PAY ITEMS. 6

### DESCRIPTION OF STRUCTURAL PRACTICES AFTER FINAL GRADING:

TEMPORARY EROSION CONTROL SYSTEMS SHALL BE LEFT IN PLACE WITH PROPER MAINTENANCE UNTIL PERMANENT EROSION CONTROL IS IN PLACE AND WORKING PROPERLY AND ALL PROPOSED TURF AREAS ARE SEEDED AND ESTABLISHED.

ONCE PERMANENT EROSION CONTROL SYSTEMS AS PROPOSED IN THE PLANS ARE FUNCTIONAL AND ESTABLISHED, TEMPORARY ITEMS SHALL BE REMOVED, CLEANED UP, AND DISTURBED TURF RESEEDED.

### MAINTENANCE AFTER CONSTRUCTION

CONSTRUCTION IS COMPLETE AFTER FINAL ACCEPTANCE BY THE ILLINOIS DIVISION OF AERONAUTICS. MAINTENANCE UP TO THIS DATE WILL BE BEOUIBED BY THE CONTRACTOR

### CONTRACTORS

- 1. THE STORM WATER POLILUTION PREVENTION PLAN MUST CLEARLY IDENTIFY FOR EACH MEASURE IDENTIFIED IN THE PLAN. THE CONTRACTOR(S) OR SUBCONTRACTOR(S) THAT WILL IMPLEMENT THE MEASURE. ALL CONTRACTORS AND SUBCONTRACTORS IDENTIFIED IN THE PLAN MUST SIGN A COPY OF THE CERTIFICATION STATEMENT IN PARAGRAPH 2 BELOW IN ACCORDANCE WITH PART VI.G (SIGNATORY REQUIREMENTS) OF THIS PERMIT, ALL CERTIFICATIONS MUST BE INCLUDED IN THE STORM WATER POLLUTION PREVENTION PLAN EXCEPT FOR OWNERS THAT ARE ACTING AS
- CERTIFICATION STATEMENT ALL CONTRACTORS AND SUBCONTRACTORS IDENTIFIED IN A STORM WATER POLILITION PREVENTION PLAN IN ACCORDANCE WITH PARAGRAPH 1 ABOVE SHALL SIGN A COPY OF THE FOLLOWING CERTIFICATION STATEMENT BEFORE CONDUCTING ANY PROFESSIONAL SERVICE AT THE SITE IDENTIFIED IN THE STORM WATER POLLUTION PREVENTION PLAN:
  - I CERTIFY UNDER PENALTY OF LAW THAT I UNDERSTAND THE TERMS AND CONDITIONS OF THE GENERAL NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT (1LR10) THAT AUTHORIZES THE STORM WATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY FROM THE CONSTRUCTION SITE IDENTIFIED AS PART OF THIS CERTIFICATION

THE CERTIFICATION MUST INCLUDE THE NAME AND TITLE OF THE PERSON PROVIDING THE SIGNATURE IN ACCORDANCE WITH PART VI.G OF THIS PERMIT: THE NAME, ADDRESS AND TELEPHONE NUMBER OF THE CONTRACTING FIRM; TH ADDRESS (OR OTHER IDENTIFYING DESCRIPTION) OF THE SITE: AND THE DATE THE CERTIFICATION IS MADE.

|--|

THIS CERTIFICATION STATEMENT IS A PART OF THE STORM WATER POLLUTION PREVENTION PLAN FOR THE PROJECT DESCRIBED BELOW IN ACCORDANCE WITH NPDES PERMIT NO. ILR 10 ISSUED BY THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

PROJECT INFORMATION:		REHABILITATE HANGAR PAVEMENT IN
ROUTE: WAUKEGAN NATIONAL AIRPORT	MARKED:	SOUTH HANGAR AREA - PHASE 1
SECTION: 31	PROJECT N	NUMBER: UGN-4969
COUNTY: LAKE	CONTRACT	TNUMBER:
	IT (ILR10) TH	TERMS AND CONDITIONS OF THE GENERAL NATIONAL POLLUTION IAT AUTHORIZES THE STORM WATER DISCHARGES ASSOCIATED W FIED AS PART OF THIS CERTIFICATION.

IGNATURE:	DATE:	
RINTED NAME:	TITLE:	

NAME OF FIRM:

STREET ADDRESS: CITY, STATE, ZIP:

PHONE NUMBER:

THE INFORMATION WITHIN THIS BOX SHALL BE COMPLETED BY THE CONTRACTOR AFTER THE AWARD OF THE CONTRACT TO OBTAIN THE REQUIRED NPDES PERMIT FROM IEPA. COMPLETION OF THIS IS A CONTRACT REQUIREMENT.

### ADDITIONAL NOTES

- THE OWNER FOR REVIEW AND INCLUSION INTO SWPPP.
- STORMWATER STRUCTURES IS PROHIBITED.
- TO THE CONTRACT

### LAKE COUNTY STORMWATER MANAGEMENT COMMISSION SOIL EROSION AND SEDIMENT CONTROL CONSTRUCTION NOTES

- DISTURBANCE OF UPLAND AREAS.
- INSPECTIONS AND DOCUMENTATION SHALL BE PERFORMED, AT A MINIMUI
- GRADING
- OR LIQUID EQUIVALENT PRECIPITATION
- APPROPRIATE SOIL EROSION AND SEDIMENT CONTROL MEASURES.

- 1
- APPROPRIATE SEDIMENT CONTROL MEASURE

DISCHARGES ASSOCIATED WITH

- GOVERNING AGENCY.

PRIOR TO COMMENCING DEWATERING ACTIVITIES AND LAND DISTURBING ACTIVITIES IN AREAS OTHER THAN INDICATED ON THESE PLANS (INCLUDING BUT NOT LIMITED TO, ADDITIONAL PHASES OF DEVELOPMENT AND OFF-SITE BORROW OR WASTE AREAS) A SUPPLEMENTARY EROSION CONTROL PLAN SHALL BE SUBMITTED TO

DURING DEWATERING OPERATION, WATER SHALL BE PUMPED FROM A SUMP PIT INTO SEDIMENT BASINS OR SILT TRAPS OR OTHER APPROVED BMP. COSTS OF SUMP PITS, SEDIMENT BASINS AND SILT TRAPS AND OTHER BMP ARE INCIDENTAL TO THE DEWATERING PAY ITEM. DEWATERING DIRECTLY INTO FIELD TILES OR

3. UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE CONSTRUCTED ACCORDING TO MINIMUM STANDARDS AND SPECIFICATIONS IN THE ILLINOIS URBAN MANUAL CURRENT EDITION FOUND AT ILLINOISMANUAL.ORG.

WINTER SHUTDOWN SHALL BE ADDRESSED FARLY IN THE FALL GROWING SEASON SO THAT SLOPES AND OTHER BARE EARTH AREAS MAY BE STABILIZED WITH TEMPORARY AND OR PERMANENT VEGETATIVE COVER FOR PROPER EROSION AND SEDIMENT CONTROL. TEMPORARY SEEDING (156) SHALL BE PAID FOR ONLY WHEN NEEDED FOR WINTERIZATION OF THE SITE AT THE LOCATIONS NOTED BY THE ENGINEER. ALL OTHER APPLICATIONS OF TEMPORARY SEED NEEDED FOR COMPLIANCE FOR THE NPDES PERMIT SHALL BE INCIDENTAL

A. SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PRIOR TO THE COMMENCEMENT OF HYDROLOGIC

B. FOR THOSE DEVELOPMENTS THAT REQUIRE A DESIGNATED EROSION CONTROL INSPECTOR (DECI),

UPON COMPLETION OF SEDIMENT AND BUNOFF CONTROL MEASURES (INCLUDING PERIMETER CONTROLS AND DIVERSIONS), PRIOR TO PROCEEDING WITH ANY OTHER EARTH DISTURBANCE OR

AFTER EVERY SEVEN (7) CALENDAR DAYS OR STORM EVENT WITH GREATER THAN 0.5 INCH OF RAINFALL

C. SOIL DISTURBANCE SHALL BE CONDUCTED IN SUCH A MANNER AS TO MINIMIZE EROSION. IF STRIPPING CLEARING, GRADING, OR LANDSCAPING ARE TO BE DONE IN PHASES, THE PERMITTEE SHALL PLAN FOR

D. A STABILIZED MAT OF CRUSHED STONE MEETING IDOT GRADATION CA 1 UNDERLAIN WITH FILTER FABRIC AND IN ACCORDANCE WITH THE ILLINOIS URBAN MANUAL, OR OTHER APPROPRIATE MEASURE(S) AS APPROVED BY THE ENFORCEMENT OFFICER, SHALL BE INSTALLED AT ANY POINT WHERE TRAFFIC WILL BE ENTERING OR LEAVING A CONSTRUCTION SITE. SEDIMENT OR SOIL REACHING AN IMPROVED PUBLIC RIGHT OF WAY, STREET, ALLEY OR PARKING AREA SHALL BE REMOVED BY SCRAPING OR STREET CLEANING AS ACCUMULATIONS WARBANT AND TRANSPORTED TO A CONTROLLED SEDIMENT DISPOSAL AREA.

TEMPORARY DIVERSIONS SHALL BE CONSTRUCTED AS NECESSARY TO DIRECT ALL RUNOFF FROM HYDROLOGICALLY DISTURBED AREAS TO AN APPROPRIATE SEDIMENT TRAP OR BASIN.

DISTURBED AREAS SHALL BE STABILIZED WITH TEMPORARY OR PERMANENT MEASURES WITHIN SEVEN (7) CALENDAR DAYS FOLLOWING THE END OF ACTIVE HYDROLOGIC DISTURBANCE OR REDISTURBANCE.

G. ALL STOCKPILES SHALL HAVE APPROPRIATE MEASURES TO PREVENT EROSION. STOCKPILES SHALL NOT BE PLACED IN FLOOD PRONE AREAS OR WETLANDS AND DESIGNATED BUFFERS

H. SLOPES STEEPER THAN 3H:1V SHALL BE STABILIZED WITH APPROPRIATE MEASURESAS APPROVED BY THE

APPROPRIATE EROSION CONTROL BLANKET SHALL BE INSTALLED ON ALL INTERIOR DETENTION BASIN SIDE SLOPES BETWEEN THE NORMAL WATER LEVEL AND HIGH WATER LEVEL

J. STORM SEWERS THAT ARE OR WILL BE FUNCTIONING DURING CONSTRUCTION SHALL BE PROTECTED BY AN

IF DEWATERING SERVICES ARE USED, ADJOINING PROPERTIES AND DISCHARGE LOCATIONS SHALL BE PROTECTED FROM FROSION AND SEDIMENTATION, DISCHARGES SHALL BE ROUTED THROUGH AN APPROVED. ANIONIC POLYMER DEWATERING SYSTEM OR A SIMILAR MEASURE AS APPROVED BY THE ENFORCEMENT OFFICER. DEWATERING SYSTEMS SHOULD BE INSPECTED DAILY DURING OPERATIONAL PERIODS. THE ENFORCEMENT OFFICER, OR APPROVED REPRESENTATIVE, MUST BE PRESENT AT THE COMMENCEMENT OF DEWATERING ACTIVITIES. IF INSTALLED SOIL EROSION AND SEDIMENT CONTROL MEASURES DO NOT MINIMIZE SEDIMENT LEAVING THE DEVELOPMENT SITE, ADDITIONAL MEASURES SUCH AS ANIONIC POLYMERS OR FILTRATION SYSTEMS MAY BE REQUIRED BY THE ENFORCEMENT OFFICER.

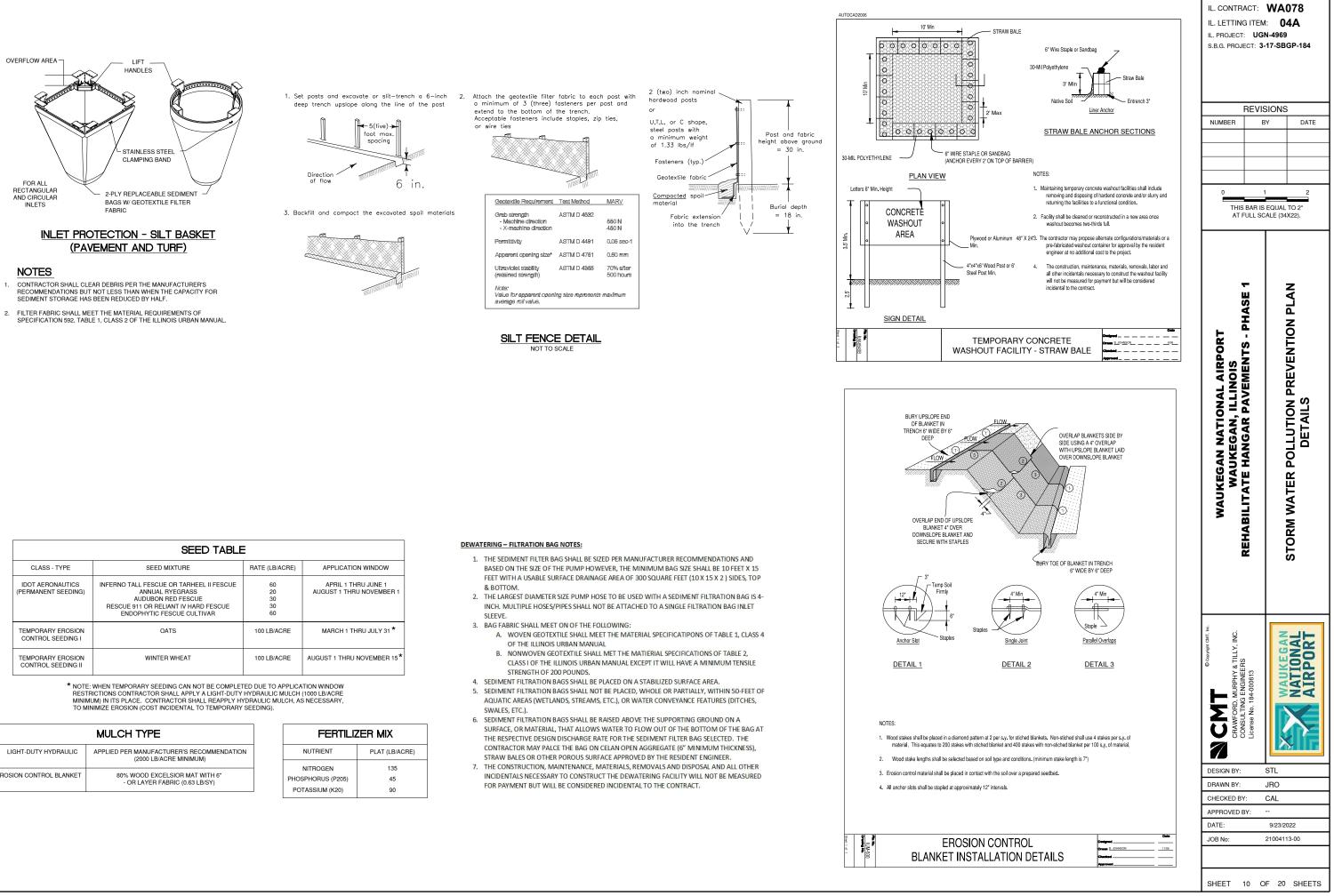
IF INSTALLED SOIL EROSION AND SEDIMENT CONTROL MEASURES DO NOT MINIMIZE SEDIMENT LEAVING THE DEVELOPMENT SITE, ADDITIONAL MEASURES SUCH AS ANIONIC POLYMERS OR FILTRATION SYSTEMS MAY BE REQUIRED BY THE ENFORCEMENT OFFICER.

M. ALL TEMPORARY AND PERMANENT EROSION CONTROL MEASURES MUST BE MAINTAINED AND REPAIRED AS NEEDED. THE PROPERTY OWNER SHALL BE ULTIMATELY RESPONSIBLE FOR MAINTENANCE AND REPAIR.

ALL TEMPORARY SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED.

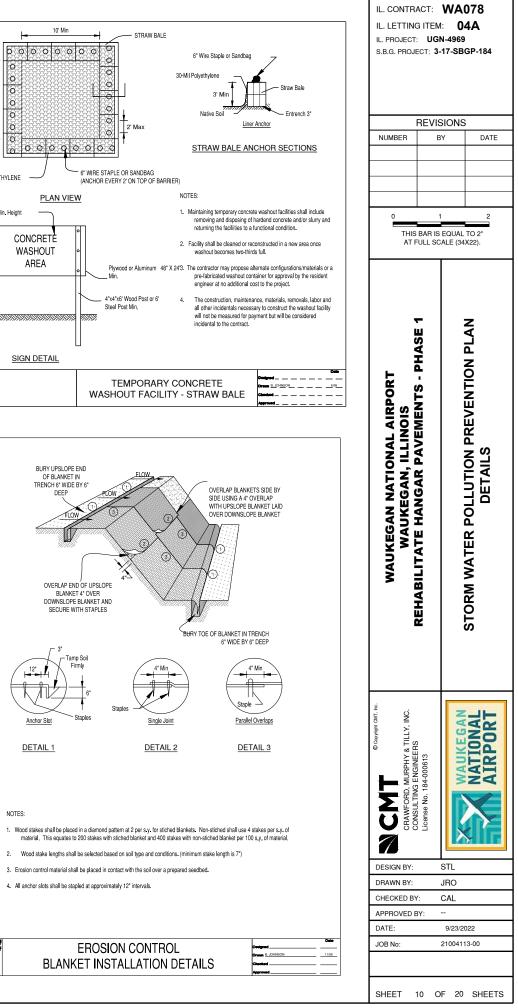
O. THE EBOSION CONTROL MEASURES INDICATED ON THE PLANS ARE THE MINIMUM REQUIREMENTS, ADDITIONAL MEASURES MAY BE REQUIRED, AS DIRECTED BY THE ENGINEER, ENFORCEMENT OFFICER, OR OTHE

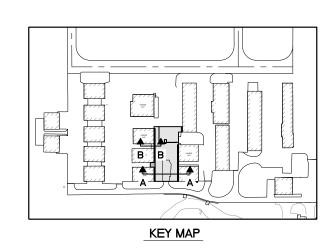
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AIRPORT OIS	KENABILITATE NANGAK PAVEMENTS - PHASE 1	STORM WATER POLLUTION PREVENTION PLAN	
CONFIGURATION CONTRACTION OF CONTRACTIONO OF CONTRACTIONO OF CONTR		MAUKEGAN NATIONAL AIRPORT	
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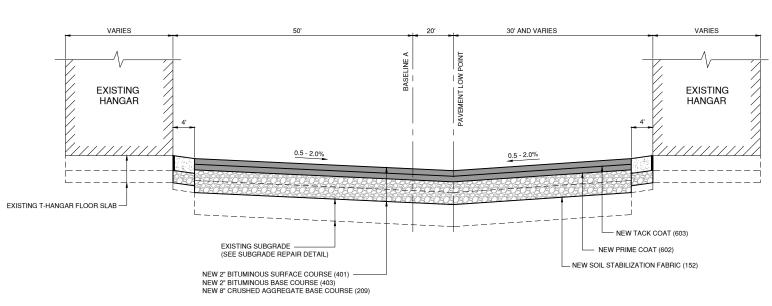


SEED TABLE							
CLASS - TYPE	SEED MIXTURE	RATE (LB/ACRE)	APPLICATION WINDOW				
IDOT AERONAUTICS (PERMANENT SEEDING)	INFERNO TALL FESCUE OR TARHEEL II FESCUE ANNUAL RYEGRASS AUDUBON RED FESCUE RESCUE 911 OR RELIANT IV HARD FESCUE ENDOPHYTIC FESCUE CULTIVAR	60 20 30 30 60	APRIL 1 THRU JUNE 1 AUGUST 1 THRU NOVEMBER 1				
TEMPORARY EROSION CONTROL SEEDING I	OATS	100 LB/ACRE	MARCH 1 THRU JULY 31 *				
TEMPORARY EROSION CONTROL SEEDING II	WINTER WHEAT	100 LB/ACRE	AUGUST 1 THRU NOVEMBER 15				

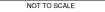
	MULCH TYPE	FERTILIZ	ΖE
LIGHT-DUTY HYDRAULIC	APPLIED PER MANUFACTURER'S RECOMMENDATION (2000 LB/ACRE MINIMUM)	NUTRIENT	
EROSION CONTROL BLANKET	80% WOOD EXCELSIOR MAT WITH 6" - OR LAYER FABRIC (0.63 LB/SY)	NITROGEN PHOSPHORUS (P205) POTASSIUM (K20)	



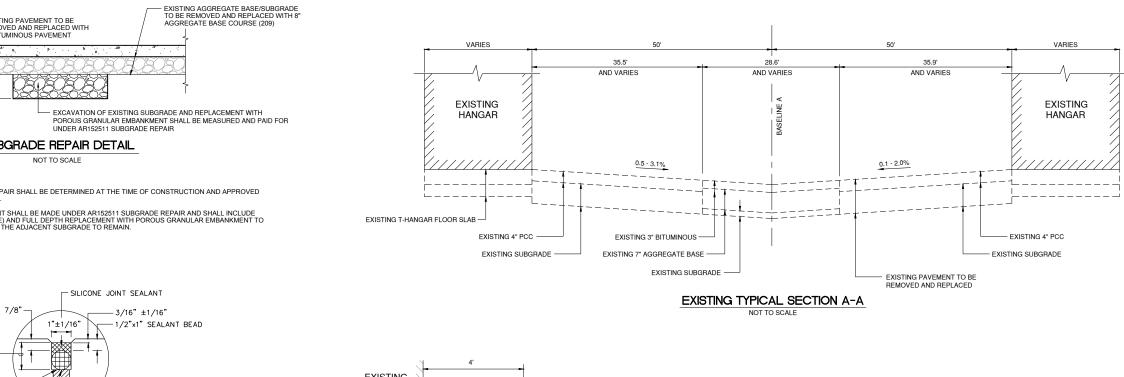


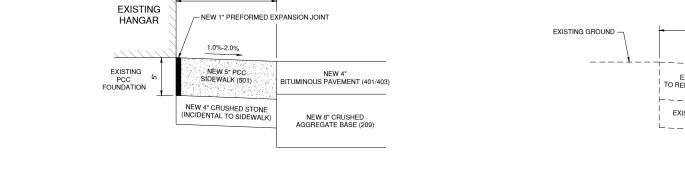


### PROPOSED TYPICAL SECTION A-A



NOTE: ANY EXCESS MATERIAL INCLUDING CLAY, EXISTING AGGREGATE BASE, MILLINGS AND TOPSOIL SHALL BE HAULED OFF AIRPORT PROPERTY AND DISPOSED OF BY THE CONTRACTOR.





CONCRETE SIDEWALK DETAIL

NOT TO SCALE NOTE: JOINT DIMENSIONS SHALL MEET MANUFACTURER'S RECOMMENDATION.

- EXISTING PAVEMENT TO BE REMOVED AND REPLACED WITH 4" BITUMINOUS PAVEMENT SUBGRADE REPAIR DETAIL

NOTES

2-1/8" MINIMUM

BOND BREAKER

EXISTING P.C.C. CONCRETE PAVEMENT/OR

BUII DING

EXPANSION JOINT DETAIL

NO SCALE

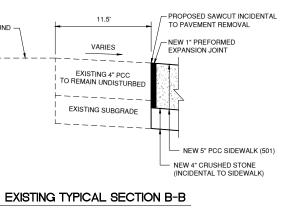
1-1/4" BACKER ROD MATERIAL

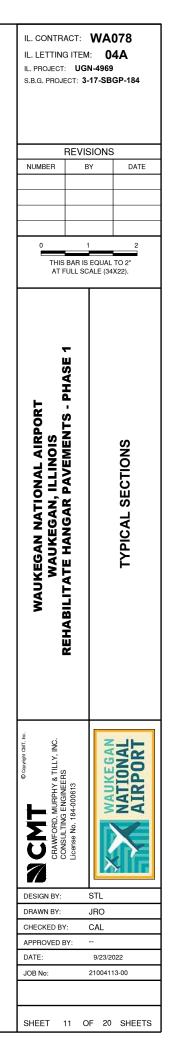
- LICCATION OF SUBGRADE REPAIR SHALL BE DETERMINED AT THE TIME OF CONSTRUCTION AND APPROVED BY THE RESIDENT ENGINEER.
- MEASUREMENT AND PAYMENT SHALL BE MADE UNDER AR152511 SUBGRADE REPAIR AND SHALL INCLUDE ALL EXCAVATION (SUBGRADE) AND FULL DEPTH REPLACEMENT WITH POROUS GRANULAR EMBANKMENT TO MEET THE FINAL GRADES OF THE ADJACENT SUBGRADE TO REMAIN. 2.

1" EXPANSION JOINT FILLER

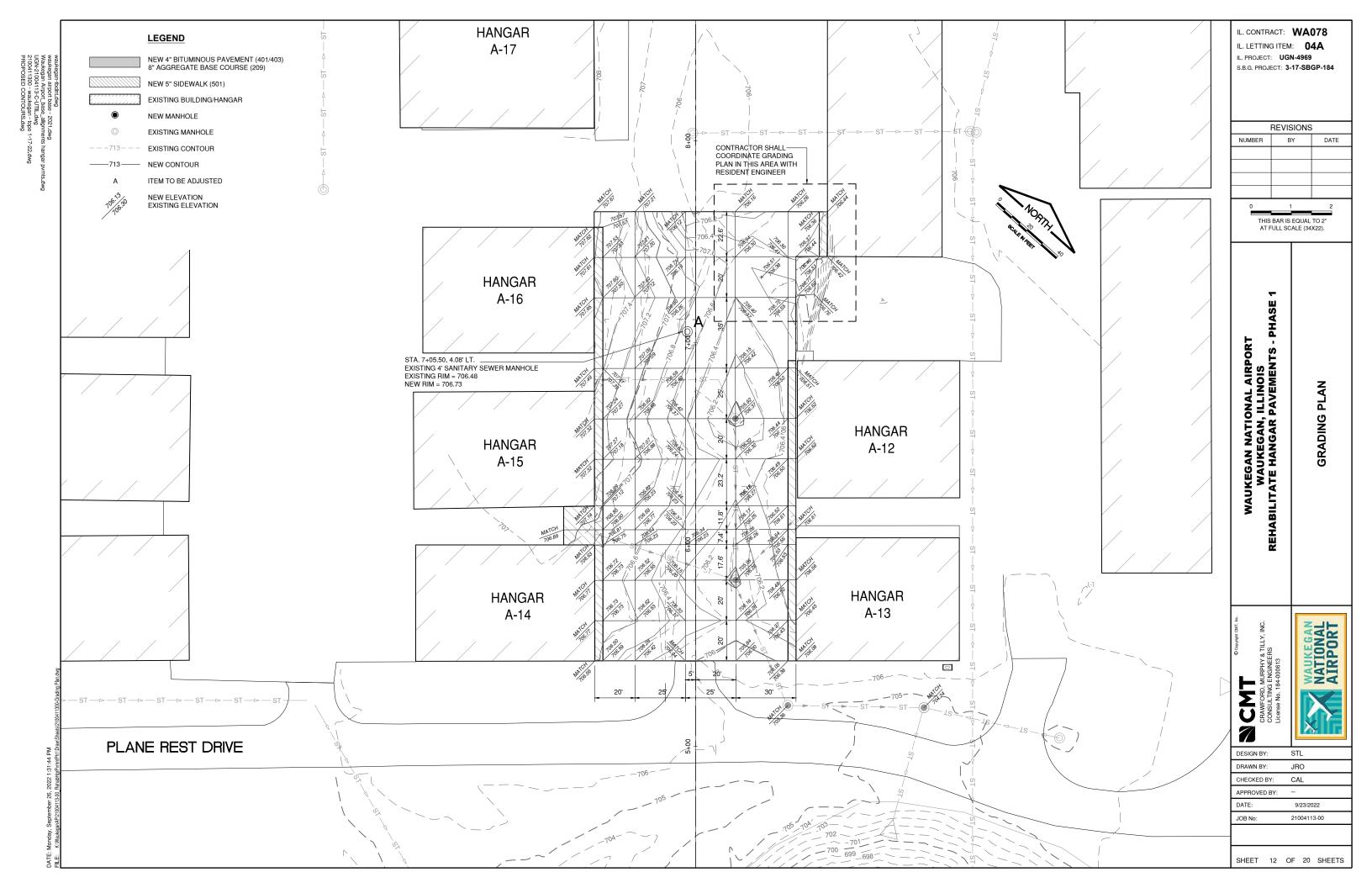
P.C.C. SIDEWALK

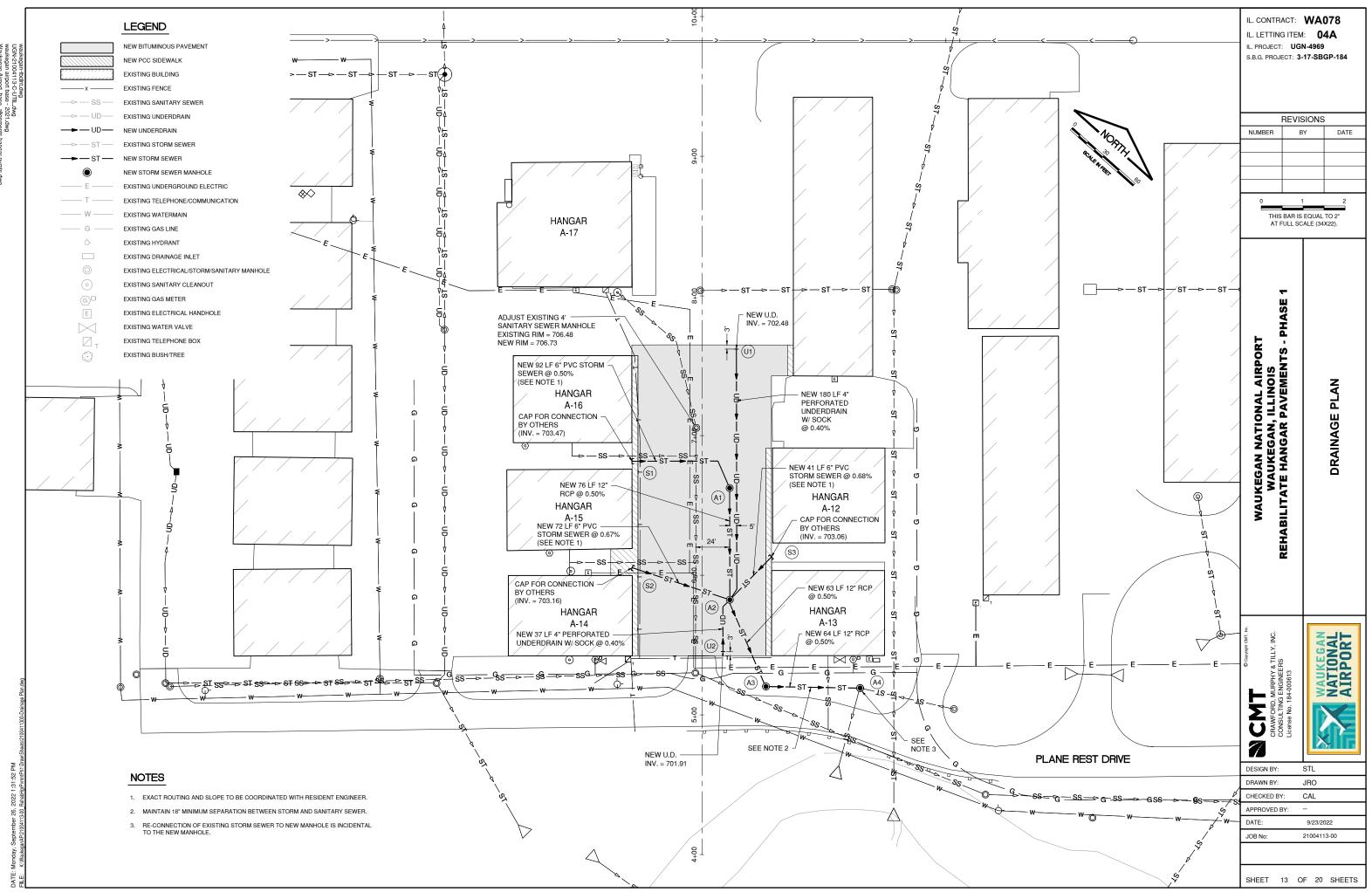






NOT TO SCALE





	1	 1			1			1		1 1	
*								NEW 2	2" BITUMINOUS B	GURFACE COURSE BASE COURSE GREGATE BASE COURSE	=
/aukegan-todnt		A	() () = 700.24 () = 700.24	A	-		(A) 88 88 92 03 88 88 88 88 88 88 88 88 88 88 88 88 88		(A1)		
ά			4.24 INV IN (SE) = INV OUT (SW N (W) = 700.2		5.36 UT (E) = 700. I (NW) = 700.		W MANHQLE – V RIM = 705.96 W 12" INV OUT (SE) = 701.03 W 12" INV N (N) = 701.13 W 4" UD NV (NE) = 701.76 W 4" UD NV (SW) = 701.76 W 4" UD NV (SW) = 701.76 W 6" INV IN (NW) = 702.68 W 6" INV IN (NE) = 702.78		E		
	707	OT O	NEW RIM = 704.24 (+) EXISTING 12" INV IN (SE) = 700.24 EXISTING 12" INV OUT (SW) = 700.24 NEW 12" INV IN (W) = 700.29	NEW MANHOL	NEW RIM = 705.36 NEW12" INV OUT (E) = 700.61 NEW12" INV IN (NW) = 700.71		NEW MANHOL NEW RIM = 70 NEW 12" INV C NEW 12" INV I NEW 4" UD INV NEW 4" UD INV NEW 6" INV N NEW 6" INV N		NEW MANHØLE NEW RIM = 705.92 NEW 12" INV OUT (S) = 701.51 NEW 6" INV IN (NW) = 703.01		
	706										
	705		Existing Groune								
	704	F				NEW	I NEW				
	703		ELEC	TRIC (INV. 704.9)	G	GRANULAR BEDDING/ BACKFILL	GRANUL BEDDIN BACKFIL	G/	0		
	702			ESTIMATED GAS LINE (INV. 703.7)					-		
	701	 									
	700	 EXISTING 12" RCP									
	699	0+	-	64' OF 12" RCP @0.5%	NEW 63' OF	12" RCP @ 0.5%	NEW 76' OF 12" F	RCP @ 0.5%	2+00		3CHIE 20'

### STORM SEWER SCHEDULE 1

	STRUCTURE DATA						PIPE DATA	
STRUCTURE	STATION	OFFSET (FT.)	TYPE	RIM EL	INVERT EL	TYPE	PIPE LENGTH (FT.)	SLOPE (%)
A1	6+62	20 RT	NEW 4' MANHOLE W/ TYPE 1 FRAME AND OPEN LID	705.92	OUT (S): 701.51 IN (NW): 703.01			
						NEW 12" RCP	76	0.5
A2	5+82	20 RT	NEW 4' MANHOLE W/ TYPE 1 FRAME AND OPEN LID	705.96	OUT (SE): 701.03 IN (N): 701.13 IN (NW): 702.68 IN (NE): 702.78			
						NEW 12" RCP	63	0.5
A3	5+20	46 RT	NEW 4' MANHOLE W/ TYPE 1 FRAME AND OPEN LID	705.36	OUT (E): 700.61 IN (NW): 700.71			
						NEW 12" RCP	64	0.5
Α4	5+20	113 RT	NEW 4' MANHOLE W/ TYPE 1 FRAME AND OPEN LID	704.24	IN (SE): 700.24 OUT (SW): 700.24 IN (W): 700.29			

### STORM SEWER SCHEDULE 2

		STRUCTURE		PIPE DATA				
STRUCTURE	STATION	OFFSET (FT.)	TYPE	RIM EL	INVERT EL	TYPE	PIPE LENGTH (FT.)	SLOPE (%)
S1	6+82	50 LT	DOWNSPOUT CONNECTION		703.47			
			CONNECTION			CAP 6" PVC	92	0.5
A1	6+62	20 RT	MANHOLE CONNECTION	705.92	703.01			
S2	6+05	50 LT	DOWNSPOUT CONNECTION		703.16			
						CAP 6" PVC	72	0.67
A2	5+82	20 RT	MANHOLE CONNECTION	705.96	702.68			
S3	6+13	50 RT	DOWNSPOUT CONNECTION		703.06			
						CAP 6" PVC	41	0.68
A2	5+82	20 RT	MANHOLE CONNECTION	705.96	702.78			

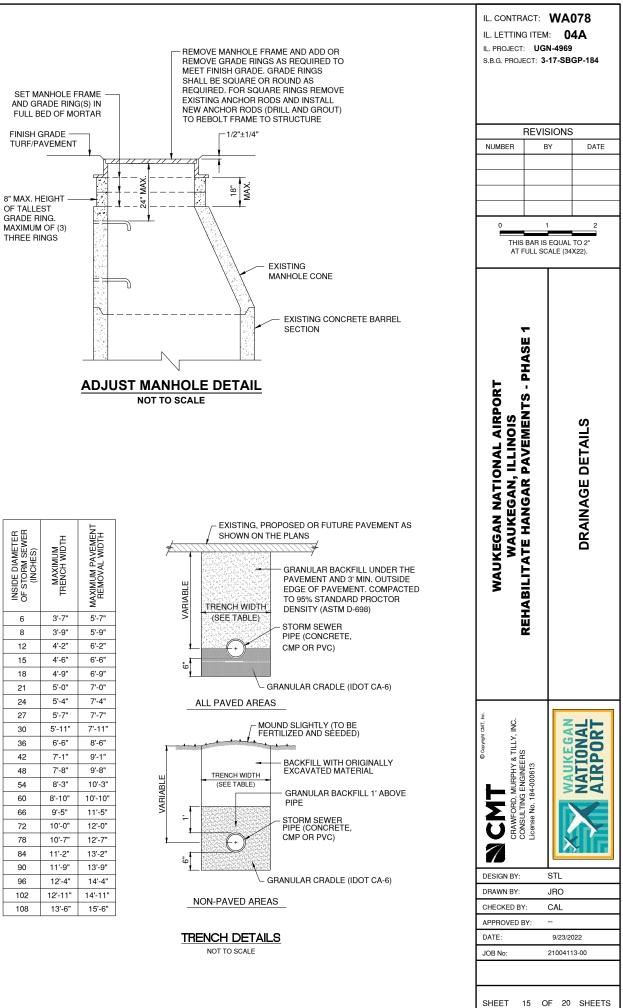
### NOTES

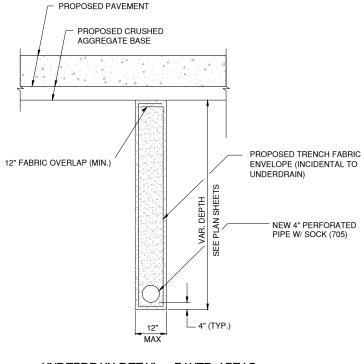
- 1. ALL UNDERDRAIN CONNECTIONS, CORING INTO STRUCTURES, TEES, BE SEWER ETC. SHALL BE CONSIDERED INCIDENTAL TO THE COST OF THE
- IT IS CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE LOCATION O UTILITIES. ANY DAMAGE TO EXISTING UTILITIES SHALL BE REPAIRED IMM CONTRACTOR'S EXPENSE.
- WHENEVER A PROPOSED STORM SEWER CROSSES EXISTING SANITARY MINIMUM VERTICAL DISTANCE FROM THE TOP OF THE STORM SEWER TO OF THE SANITARY SEWER SHALL BE 18 INCHES OR VICE VERSA. FURTHE MINIMUM HORIZONTAL DISTANCE OF 10 FEET BETWEEN SANITARY SEWE SEWERS SHALL BE MAINTAINED.

### UNDERDRAIN SCHEDULE

		STRUCTURE	DATA			
STRUCTURE	STATION	OFFSET (FT.)	TYPE	RIM EL	INVERT EL	
U1	7+62	25 RT	UNDERDRAIN CONNECTION		702.48	
						UN
A2	5+82	20 RT	MANHOLE CONNECTION	705.96	701.76	
						UN
U2	5+45	15 RT	UNDERDRAIN CONNECTION		701.91	

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					REVISIO	NS
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	706				BAR IS EQU	
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	704				-	OULES
	703				IATE HANGAK PAVEMENTS - PHASE	<b>NER PROFILE AND UNDERDRAIN SCHEDULES</b>
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BENDS, STORM E UNDERDRAIN.				© Copyright CMT, Inc. & TILLY, INC.		I AL NAL OR T
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RY SEWER, THE TO THE BOTTOM HERMORE, A VERS AND STORM	1			COMPACT COMPARIANCE	License No. 184-000613	AN
				DESIGN BY:	STI	-
	PIPED	ATA		DRAWN BY:	JRC	
ТҮРЕ		NGTH (FT.)	SLOPE (%)	APPROVED B		L
4" PERFORATED		180	0.4	DATE:		23/2022
IDERDRAIN W/ SOCK		100	0.4	JOB No:	210	04113-00
4" PERFORATED IDERDRAIN W/ SOCK		37	0.4	SHEET	14 OF	20 SHEETS
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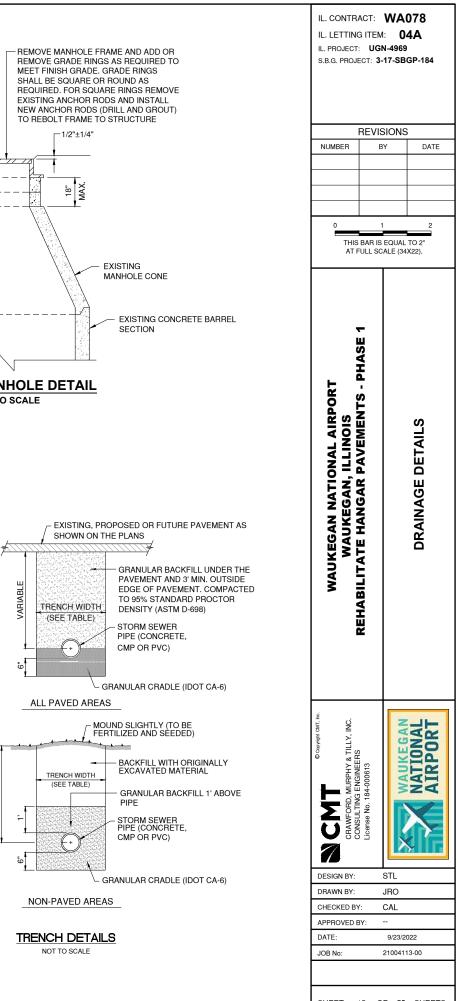
### UNDERDRAIN DETAIL - PAVED AREAS NOT TO SCALE

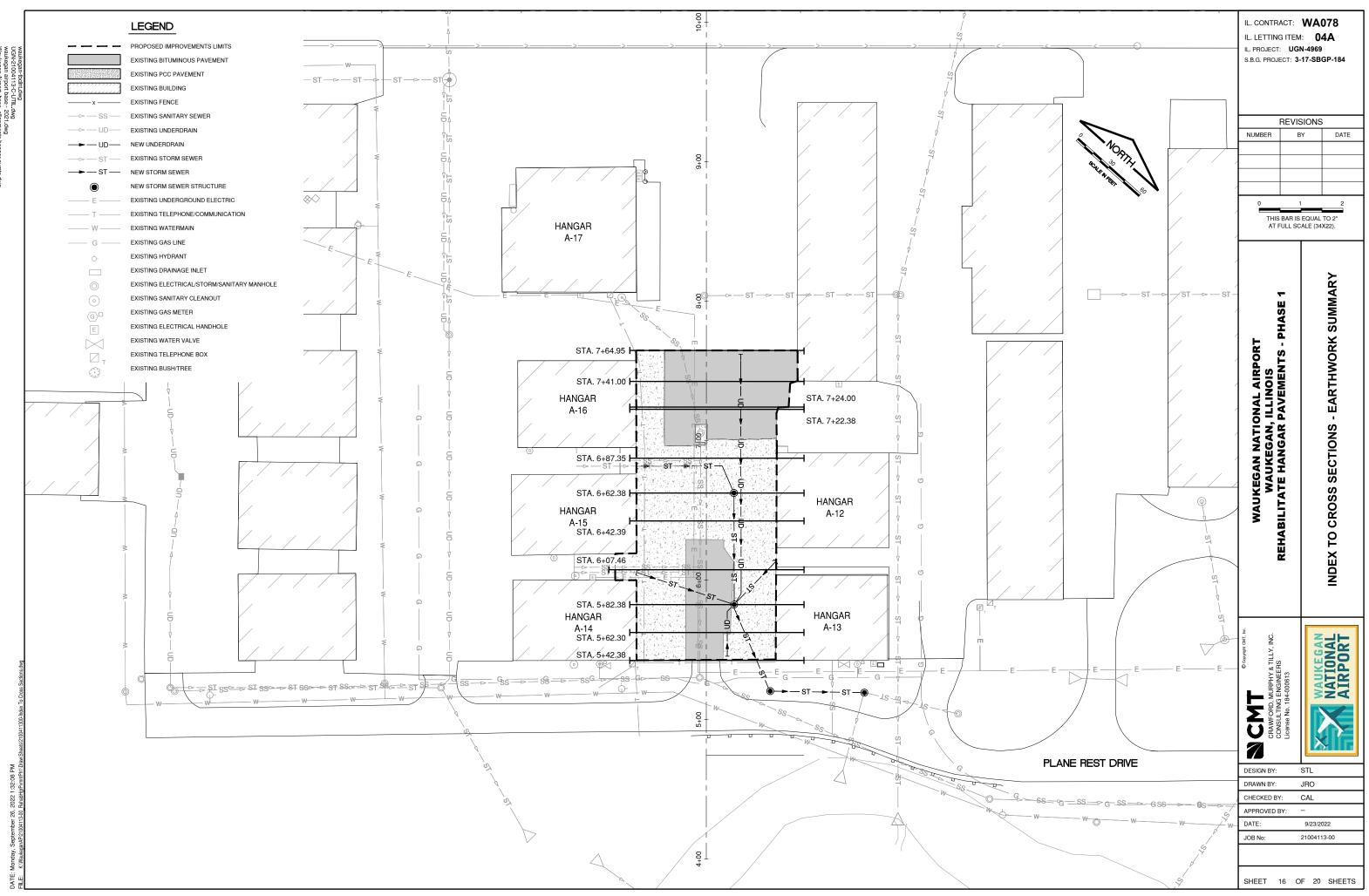
### NOTES

- 1. THE 4" UNDERDRAIN SHALL BE INSTALLED AFTER THE SUBGRADE IS COMPACTED.
- 2. THE SPOILS FROM THE 4" UNDERDRAIN CONSTRUCTION SHALL BE REMOVED DAILY FROM THE SURFACE OF THE CRUSHED AGGREGATE BASE.

- 1. CONTRACTOR SHALL FIELD VERIFY EXISTING STORM SEWER/UNDERDRAIN INVERTS BEFORE INSTALLING PROPOSED PIPE, CONNECTIONS AND ORDERING MATERIALS.
- 2. ALL UNDERDRAIN CONNECTIONS, CORING INTO STRUCTURES, CAPS, TEES, BENDS, STORM SEWER ETC. SHALL BE CONSIDERED INCIDENTAL TO THE COST OF THE UNDERDRAIN.
- 3. UNDERDRAIN SLOPES FOLLOW EDGE OF PAVEMENT SLOPE UNLESS OTHERWISE NOTED.
- 4. UNDERDRAIN CONFLICTS WITH EXISTING CONDITIONS SHALL BE RESOLVED AND COST SHALL BE INCIDENTAL TO UNDERDRAIN.
- 5. PRIOR TO ORDERING AND INSTALLING ALL FIELD TILE REPLACEMENT PIPE, THE CONTRACTOR SHALL FIELD VERIFY THE LOCATION AND INVERTS OF EXISTING FIELD TILE CONNECTIONS. ADJUSTMENTS SHALL BE MADE AS NECESSARY AT NO ADDITIONAL COST TO THE CONTRACT.
- 6. CORING OF DRAINAGE STRUCTURE AND REMOVAL OF EXISTING STORM SEWER MANHOLE/INLET CONCRETE BENCHES TO FACILITATE CONNECTIONS OF PROPOSED STORM SEWER PIPE SHALL BE CONSIDERED INCIDENTAL TO THE COST OF THE PIPE

INSIDE DIAMETER OF STORM SEWER (INCHES)	MAXIMUM TRENCH WIDTH	MAXIMUM PAVEMENT REMOVAL WIDTH
6	3'-7"	5'-7"
8	3'-9"	5'-9"
12	4'-2"	6'-2"
15	4'-6"	6'-6"
18	4'-9"	6'-9"
21	5'-0"	7'-0"
24	5'-4"	7'-4"
27	5'-7"	7'-7"
30	5'-11"	7'-11"
36	6'-6"	8'-6"
42	7'-1"	9'-1"
48	7'-8"	9'-8"
54	8'-3"	10'-3"
60	8'-10"	10'-10"
66	9'-5"	11'-5"
72	10'-0"	12'-0"
78	10'-7"	12'-7"
84	11'-2"	13'-2"
90	11'-9"	13'-9"
96	12'-4"	14'-4"
102	12'-11"	14'-11"
108	13'-6"	15'-6"



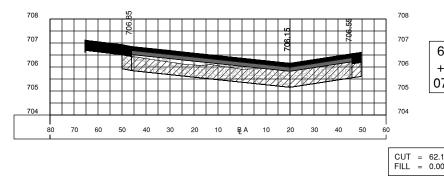


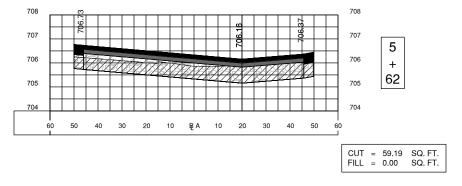
11300-Grading plan.dwg gan airport base - 2021.dwg 21004113-C-UTL.dwg 11300 - waukegan. topo 1-17-22.dwg agan Airport\_base\_alignments hangar pvmt

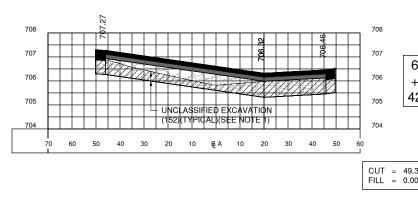
dwg.

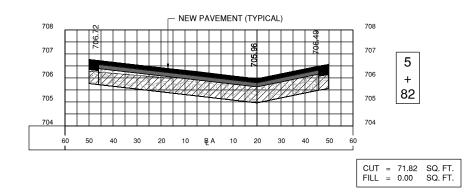
DATE: Monday, September 26, 2022 1:32:15 PM FILE: KilwaukeganAP2100411300, PehabHgrPmmPh1DrawSheets2100411300-Cross (

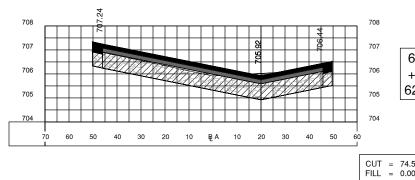
### 708 708 707 707 5 706 706 + 42 705 705 704 704 40 30 20 10 B2A 10 20 30 40 50 50 CUT = 77.54 SQ. FT. FILL = 0.00 SQ. FT.











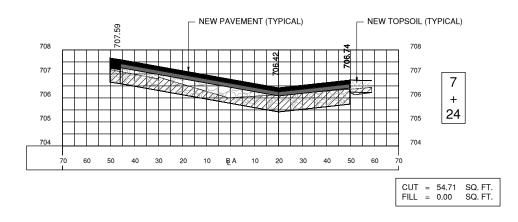
NOTES 1. CUT (152) IS CALCULATED TO BE EXCAVATION OF EXISTING BASE COURSE/SUBGRADE BENEATH THE EXISTING PAVEMENT TO BE REMOVED TO THE ELEVATION OF THE PROPOSED SUBGRADE.

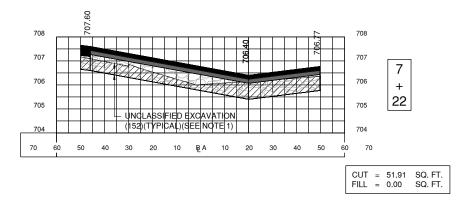
Ē	LEGEND CUT FILL	IL. CONTR/ IL. LETTINC IL. PROJECT: S.B.G. PROJE	i ITEM: UGN-4	04A 1969
		NUMBER	REVISIO BY	DNS DATE
6 + 62			1 BAR IS EC ULL SCAL	2 NUAL TO 2" E (34X22).
4.55 SQ. FT. 00 SQ. FT.		RPORT IS	EN 10 - 11435 1	-
6 + 42 9.30 SQ. FT. 00 SQ. FT.		WAUKEGAN NATIONAL AIRPORT WAUKEGAN, ILLINOIS	KERABILI ALE HANGAK FAVEMI	CROSS SECTIONS - 1
6		CMT © Copyright Cart. Inc. CRAVEORD, MURPHY & TILLY, INC. CONSULTING ENGINEERS		WAUKEGAN NATIONAL AIRPORT
+ 2.13 SQ. FT. 00 SQ. FT.		DESIGN BY: DRAWN BY: CHECKED BY	ST JR : CA	0
		APPROVED B DATE: JOB No: SHEET 1	9	23/2022 004113-00 20 SHEETS

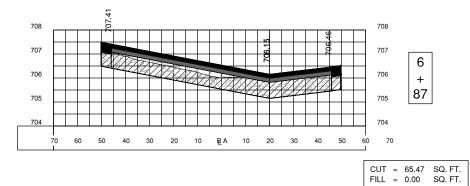
DOM TSED CONTOURS.dwg DOM T300-Grading plan.dwg Ukegan airport base - 2021.dwg N21004113-C-UTIL.dwg N21004113-C-UTIL.dwg Ukegan Airport\_base \_alignments hangar pvmts./

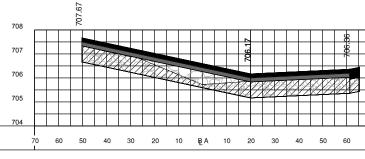
### NOTES

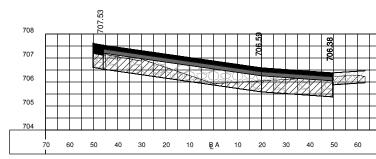
1. CUT (152) IS CALCULATED TO BE EXCAVATION OF EXISTING BASE COURSE/SUBGRADE BENEATH THE EXISTING PAVEMENT TO BE REMOVED TO THE ELEVATION OF THE PROPOSED SUBGRADE.





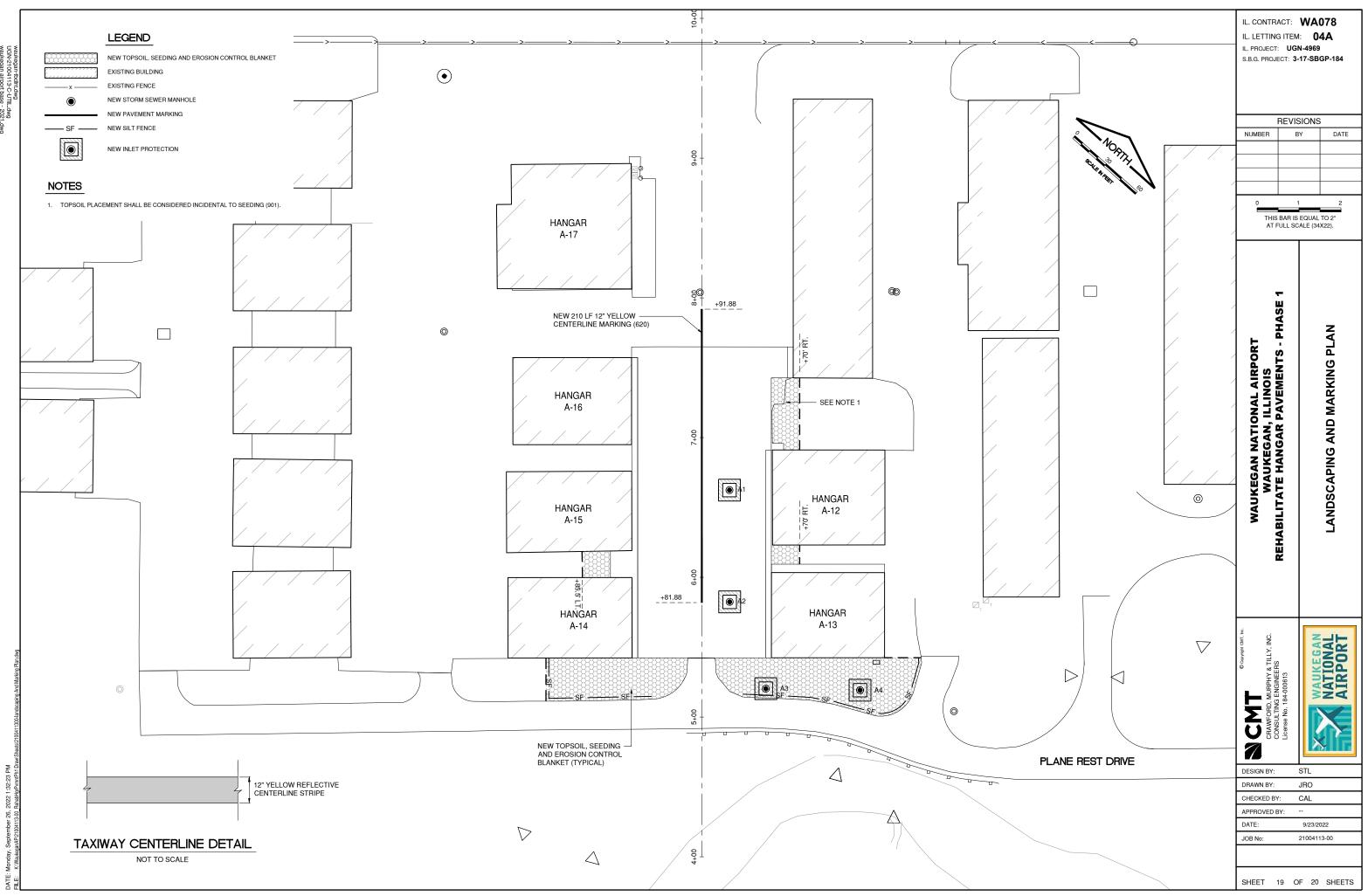




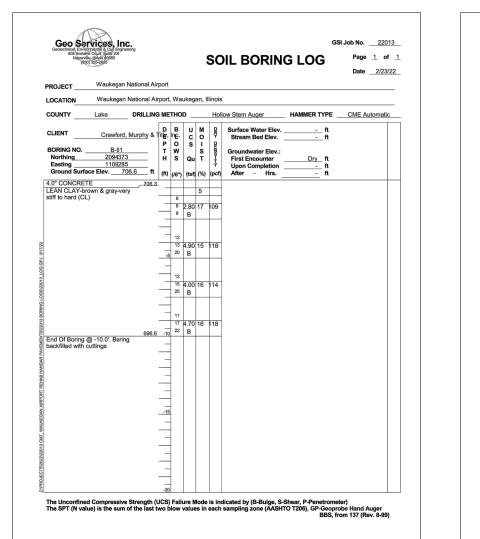


LEGEND	IL. CONTRACT IL. LETTING ITI IL. PROJECT: U S.B.G. PROJECT:	EM: <b>04A</b>
	RE	ISIONS
	NUMBER	BY DATE
	0	1 2
	THIS BAR	IS EQUAL TO 2" SCALE (34X22).
$ \begin{array}{c} 708 \\ 707 \\ 706 \\ 705 \\ 704 \\ \hline 00 \\$	WAUKEGAN NATIONAL AIRPORT WAUKEGAN, ILLINOIS REHABILITATE HANGAR PAVEMENTS - PHASE 1	CROSS SECTIONS - 2
$ \begin{array}{c} 708 \\ 707 \\ 706 \\ + \\ 705 \\ 704 \\ 70 \\ 60 \\ \end{array} $ $ \begin{array}{c} \text{CUT} = 56.17 \\ \text{FILL} = 0.00 \\ \text{SQ. FT.} \\ \end{array} $	BESIGN BY:     CONSULTING ENGINEERS     CONSULTING ENGINEERS	STL JRO CAL
FILL = 0.00 SQ. FT.	CHECKED BY: APPROVED BY:	CAL
	DATE:	9/23/2022

SHEET 18 OF 20 SHEETS

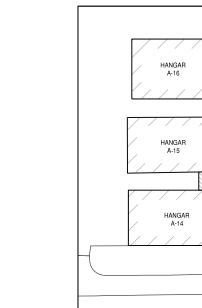


JGN-21004113-C-UTIL.dwg vaukegan airport base - 2021.dwg Vaukegan Airport\_base\_alignmen



Geoo Services, Inc. Geotencial Environmenta & Cul Engineering Naperville, Illifoli 60565 (1997) 355-7836						SC	DIL BORING LOG Page 1 Date 2	
PROJECT Waukegan Natio	onal Air	rport						
LOCATION Waukegan Natio	onal Ai	rport	Wa	ukeg	an, II	llinois		
COUNTY Lake DR	ULLING	G ME	тно	D _		Hol	ow Stem Auger HAMMER TYPE CME Auton	natic
CLIENT Crawford, Mur	phy &	D il⊯, P	B Inc. O	U C S	M 0 1	R Y D	Surface Water Elev ft Stream Bed Elev ft	
BORING NO.         B-02           Northing         2094260           Easting         1109322	_	т н	w s	Qu	s		Groundwater Elev.: First Encounter702.7 _ ft ▼ Upon Completion ft	
Ground Surface Elev. 706.7	ft	(ft)	(/6")	(tsf)	(%)	(pcf)	After - Hrs ft	
4.0" CONCRETE LEAN CLAY with Sand-brown &	706.4				9			
LEAN CLAY with Sand-brown & gray-medium stiff to very stiff (CL) Fill		_	17 16	2.00	16	110		
		_	11	2.00 P	10			
		Ţ	5	0.80	26	100		
		-5	2	B	20			
SILTY CLAY-dark brown &	701.2							
gray-stiff (CL)		_	3	1.90	27	98		
			5	В	-			
LEAN CLAY with Sand-brown & gray-hard (CL)	698.7	_	6					
	696.7	-10	11 12	4.50 P	17	115		
End Of Boring @ -10.0'. Boring backfilled with cuttings	090.7	-10						
		_						
		_						
		_						
		-15						
		-15						
		_						
		_						
		_						
		-20						

Centerhald Erforder and Argenting SUMMARY Broject: Rehabilitate Pavements in the South Hangar Area-Phase 1 Location: Waukegan National Airport, Waukegan, Illinois Date: 2/23, County: Lake Cored By:		MA.		Page: <u>1 of 1</u>
Project:         Rehabilitate Pavements in the South Hangar Area-Phase 1         GSI Job No.:         2/23           Location:         Waukegan National Airport, Waukegan, Illinois         Date:         2/23           County:         Lake         Cored By:	Geotechnica	0 Services		
Project:         Rehabilitate Pavements in the South Hangar Area-Phase 1         GSI Job No.:         2/23           Location:         Waukegan National Airport, Waukegan, Illinois         Date:         2/23           County:         Lake         Cored By:		Naperville, Illinois 605 (630) 355+2838		
County:         Lake         Cored By:           Client:         CMT         Checked By:           CORE         THICKNESS (in.)         MATERIAL DESCRIPTION           C-01         4.0 1.25 4.0 -         Northing: 2094367.9         Eesting: 1109227.8           CORE         CONCRETE-well consolidated POORLY GRADED SAND-brown SAND & STONE-brown         CONCRETE-well consolidated POORLY GRADED SAND-brown           0.000         Northing: 2094294.3         Eesting: 1109344.0	Project: <u>F</u>	Rehabilitate Pave	ements in the South Hangar Area-Phase 1	
Client:         OMT         Checked By:           CORE NO.         THICKNESS (in.)         MATERIAL DESCRIPTION           C-01         4.0 1.25 4.0 -         Northing: 2094367.9 CONCRETE-well consolidated POORLY GRADED SAND-Drown SAND & STONE-Drown SAND & STONE-Drown           0.000         Northing: 2094294.3         Easting: 1109344.0			ial Airport, Waukegan, Illinois	
NO.         (in.)         DESCRIPTION           C-01         4.0 1.25 4.0 -         Northing: 2094367.9 4.0 SAND & STONE-Prown -         Easting: 1109227.8 CONCRETE-well consolidated POORLY GRADED SAND-Prown SAND & STONE-Prown -           Description         SAND & STONE-Prown SAND & STONE-Prown -         Sand & STONE-Prown Sand & STONE-Prown           Description         Northing: 2094294.3         Easting: 1109344.0				
C-01         Northing: 2094367.9         Easting: 1109227.8           CONCRETE-well consolidated PORLY GRADED SAND-brown SILTY CLAY-black         CONCRETE-well consolidated PORLY GRADED SAND-brown SILTY CLAY-black		THICKNESS		
C-01 4.0 CONCRETE-well consolidated 1.25 PORLY GRADED SAND-brown 4.0 SAND & STONE-brown - SILTY CLAY-black Northing: 2094294.3 Easting: 1109344.0	NO.	(in.)		
Northing: 2094294.3 Easting: 1109344.0	C-01	1.25 4.0		
C-02 3.0 7.0 ASPHALT-porous, fine to medium coarse sing aggregate. SAND & STONE-brown				
	C-02	3.0	ASPHALT-porous, fine to medium coarse slag aggregate. SAND & STONE-brown	



### LEGEND



### NEW BITUMINOUS PAVEMENT NEW SIDEWALK EXISTING BUILDING/HANGAR



THE INFORMATION SHOWN ON THESE PLANS HAS BEEN OBTAINED FROM AVAILABLE RECORDS. NEITHER THE OWNER NOR THE ENGINEER ASSUMES ANY RESPONSIBILITY WHATSOEVER IN RESPECT TO THE ACCURACY OR SUFFICIENCY OF THE INFORMATION AND THERE IS NO GUARANTEE EITHER EXPRESSED OR IMPLIED THAT THE CONDITIONS INDICATED ARE REPRESENTATIVE OF THOSE TO BE ENCOUNTERED IN THE FIELD. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VISIT THE SITE AND ACQUAINT HIMSELF WITH THE EXISTING CONDITIONS.

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