BASE BID QUANTITIES			
ITEM NO.	ITEM DESCRIPTION	UNIT	QUANTITY
AW125615	PAPI (I-880 SYSTEM)	EACH	2
AW125909	REMOVE VASI	EACH	8
AW150510	ENGINEER'S FIELD OFFICE	LSUM	1
AW150520	MOBILIZATION	LSUM	1
AW152410	UNCLASSIFIED EXCAVATION	CU YD	300
AW154706	CRUSHED AGG BASE COURSE - 6"	SQ YD	1,400
AW156513	SEPARATION FABRIC	SQ YD	1,400
AW603510	BITUMINOUS TACK COAT	GALLON	100
AW701524	24" RCP, CLASS IV	FOOT	66
AW751415	INLET-SPECIAL	EACH	1
AW752424	PRECAST REINFORCED CONC. FES 24"	EACH	2
AW800223	PAPI4 Circuit, 2-1/C #8, 5kV cable, 1-#8 GND in Unit Duct	FOOT	840
AW800224	PAPI22 Circuit, 3-#2, Type USE, 1-#8 GND in Unit Duct	FOOT	1,175
AW800225	1/C # 1/0 BARE COPPER GUARD WIRE WITH GROUND RODS	FOOT	2,015
AW800226	BITUMINOUS SURFACE - IDOT IL 9.5	TON	270
AW901510	SEEDING	ACRE	0.2
AW908510	MULCHING	ACRE	0.2

CONSTRUCTION PLANS FOR WILLARD AIRPORT

UNIVERSITY OF ILLINOIS SAVOY, ILLINOIS

IL. PROJ. NO. CMI-4877 AIP PROJ. NO. 3-17-0016-036/37

NEW RUNWAY 4 AND 22 FAA PAPIS

APRIL 29, 2022





CALL J.U.L.I.E. BEFORE EXCAVATING 1-800-892-0123 UNIVERSITY OF ILLINOIS - WILLARD AIRPORT TOWNSHIP: T 18 N RANGE: R 8 E COUNTY: CHAMPAIGN

SECTION 2, 3, 10 AND 11

:\Champagn&r190059-02_R#y4-22\Praw\Sheets\PAPI Sheets 19005902 11.E: 19005902-10-G1000.dwg IDDATF BY- Chris Carbh

TOTAL SHEETS: 20

UN061	
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Sheet List Table				
Sheet Number	Sheet Title			
GI000	COVER SHEET			
GC001	CONSTRUCTION SAFETY & PHASING NOTES			
GC002	CONSTRUCTION SAFETY PHASING DETAILS			
GC101	CONSTRUCTION ACTIVITY PLAN			
CD101	RUNWAY 4 EXISTING CONDITIONS & REMOVALS			
CD102	RUNWAY 22 EXISTING CONDITIONS & REMOVALS			
CS100	RUNWAY 4 & 22 PAPI SITE GRADING & DRAINAGE SHEET			
CU501	DRAINAGE DETAILS 1			
CU502	DRAINAGE DETAILS 2			
EL101	RUNWAY 4 PAPI PLAN			
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EL508	ELECTRICAL DETAILS			



GENERAL

- THE CONTRACTOR AND ALL SUBCONTRACTORS SHALL FOLLOW REQUIREMENTS OF THE AIRPORT'S APPROVED THE CONSTRUCTION SAFETY AND PHASING PLAN (CSPP), FAA AC 150/5370-2G OR LATEST, AND ALL AIRPORT SAFETY AND SECURITY REQUIREMENTS. THE CSPP CONSISTS OF THIS SHEET AND SHEETS GC001- GC101
- 2. PRIOR TO THE START OF CONSTRUCTION THE CONTRACTOR SHALL SUBMIT TO THE AIRPORT FOR APPROVAL A SAFETY PLAN COMPLIANCE DOCUMENT (SPCD) IN ACCORDANCE WITH FAA AC 150/5370-2G OR LATEST. NO CONSTRUCTION ACTIVITY SHALL BEGIN UNTIL THE AIRPORT HAS APPROVED THE SPCD.
- THE CSPP COVERS OPERATIONAL SAFETY THE CONTRACTOR 3 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.
- PRIOR TO THE START OF CONSTRUCTION THE CONTRACTOR SHALL 5 SIGN THE SWPPP CERTIFICATION STATEMENT
- ALL CONTRACTOR COSTS ASSOCIATED WITH THE REQUIREMENTS 6. LISTED ON THIS SHEET SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT UNLESS A SPECIFIC PAY ITEM IS PROVIDED.

1. COORDINATION

- PRIOR TO THE START OF CONSTRUCTION THE CONTRACTOR SHALL ATTEND A PRECONSTRUCTION CONFERENCE WITH THE AIRPORT, ENGINEER, AND ILLINOIS DIVISION OF AERONAUTICS (IDA). THE COST OF PREPARING FOR AND ATTENDING THE PRECONSTRUCTION CONFERENCE SHALL BE INCIDENTAL TO THE CONTRACT.
- ON OR BEFORE THE PRECONSTRUCTION CONFERENCE. THE 2. CONTRACTOR SHALL SUBMIT A PROPOSED SCHEDULE FOR THE THE SCHEDULE SHALL INCLUDE A START AND PROJECT 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, LOCAL FAA ATO AND RESIDENT PROJECT REPRESENTATIVE. ALL COSTS ASSOCIATED WITH ATTENDING THE WEEKLY MEETING SHALL BE INCIDENTAL TO THE CONTRACT.
- THE CSPP AS WRITTEN HAS BEEN APPROVED BY THE AIRPORT AND THE FAA. PROPOSED CHANGES TO THE WORK LIMITS SHALL BE COORDINATED THROUGH THE FAA FOR AIRSPACE ANALYSIS AND WILL REQUIRE A MINIMUM OF 30 DAYS TO REVIEW.

2. PHASING

PHASING SHALL BE AS NOTED BELOW AND AS SHOWN ON THE CONSTRUCTION ACTIVITY PLAN (CAP) SHEET.

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 2. 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 AIRPORT
- 3 ALL CONSTRUCTION TRAFFIC SHALL IMMEDIATELY YIELD TO ONCOMING AIRCRAFT AT ALL TIMES.

4. WORK ZONE LIGHTING FOR NIGHTTIME CONSTRUCITON

- WORK PERFORMED BY THE CONTRACTOR OUTSIDE OF DAYLIGHT HOURS SHALL BE DONE UNDER SUFFICIENT ARTIFICIAL AREA LIGHTING TO ALLOW FOR PROPER CONSTRUCTION METHODS AND INSPECTION, LIGHTS SHALL CONSIST OF VEHICLE OR MOVEABLE POLE-MOUNTED FLOODLIGHTS AND/OR SPOTLIGHTS OF SUFFICIENT NUMBER TO ILLUMINATE THE WORK AREA. VEHICLE HEADLIGHTS WILL BE ALLOWED ONLY IN ADDITION TO OTHER LIGHTS MENTIONED ABOVE. LIGHTING SHALL NOT INTERFERE WITH AIR OPERATIONS OR ATCT CONTROLLER SIGHT LINES. ANY WORK BEING PERFORMED UNDER INSUFFICIENT ARTIFICIAL LIGHTING, IN THE R.P.R.'S JUDGMENT, SHALL BE STOPPED UNTIL SUCH TIME AS ADDITIONAL LIGHTING IS PROVIDED, ALL WORK PERFORMED DURING THAT TIME WILL NOT BE ACCEPTABLE UNTIL PROPER INSPECTION & TESTING CAN BE MADE.
- ARTIFICIAL LIGHTING SHALL NOT BE AIMED AT THE ATCT OR THE APPROACH ENDS OF AN ACTIVE RUNWAY.

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.
- THE CONTRACTOR IS TO ACCESS THE SITE USING THE GATES SHOWN, THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING THE ACCESS GATE(S) CLOSED DURING WORK HOURS. THE CONTRACTOR SHALL POST A COMPETENT SECURITY GUARD TO CONTROL ACCESS AT THE GATE. THE CONTRACTOR SHALL REPLACE ANY UNSATISFACTORY SECURITY GUARDS AS DIRECTED.
- CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND 3. TEMPORARY EASEMENTS FOR THE PUBLIC ACCESS ROAD(S) SHOWN AND SHALL COMPLY WITH ALL BEOLIBEMENTS LOAD RESTRICTIONS, & TRAFFIC CONTROL SIGNAGE REQUIRED BY THE VILLAGE, UNIVERSITY, COUNTY, TOWNSHIP, OR I.D.O.T.
- ALL CONTRACTOR EMPLOYEES WHO ARE DESIGNATED AS 4 DRIVERS FOR THE CONTRACTOR WITHIN THE AIR OPERATIONS AREA (AOA) SHALL ATTEND THE APPROPRIATE DRIVERS TRAINING PROGRAM ADMINISTERED BY THE AIRPORT. ONLY THOSE INDIVIDUALS WHO BECEIVE TRAINING AND DRIVING PRIVILEGES WILL BE PERMITTED TO OPERATE VEHICLES OR EQUIPMENT ON THE AIRPORT. ALL COSTS ASSOCIATED WITH THE DRIVER TRAINING PROGRAM SHALL BE BORNE BY THE CONTRACTOR.
- DRIVERS OF TRUCKS CONTAINING MATERIAL DELIVERIES 5. (AGGREGATE, CONCRETE, ETC.) NEED NOT OBTAIN AN AIRPORT ID BADGE OR ATTAIN DRIVERS PRIVILEGES BUT SHALL 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, THE TRUCK DRIVERS SHALL BE ESCORTED BY THE CONTRACTOR WHO IS BADGED AND HAS OBTAINED DRIVERS PRIVILEGES STATE IN #4 ABOVE, CONTRACTOR DELIVERY ESCORT PROCEDURES SHALL BE APPROVED BY THE AIRPORT PRIOR TO INITIATING ESCORT PROCEDURES
- WHEN THE CONTRACTOR IS NOT WORKING, EQUIPMENT SHALL BE 6. STORED AT THE STAGING AREA
- THE CONTRACTOR WILL BE PERMITTED TO STORE FOUIPMENT 7. 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 AFFECTING NAVIGABLE AIRSPACE.
- 8. ALL CONSTRUCTION TRAFFIC OPERATING ON, OR CROSSING RUNWAYS, TAXIWAYS AND APRONS OPEN TO AIRCRAFT TRAFFIC SHALL BE LINDER CONTROL BY A FLAGMAN OR ESCORT IN BADIO CONTACT WITH THE ATCT. THE CONTRACTOR SHALL PROVIDE HIS OWN FLAGMEN.
- CONTRACTOR SHALL THOROUGHLY CLEAN ALL 9. THE CONSTRUCTION AREAS AND HAUL ROUTES WHICH WILL BE OPENED TO 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
- 10. ALL VEHICLE AND EQUIPMENT OPERATORS USED BY THE CONTRACTOR SHALL BE PROPERLY TRAINED BY THE CONTRACTOR
- THE CONTRACTOR SHALL NOTIFY THE AIRCRAFT RESCUE AND FIRE 11. FIGHTING (AREF) FACILITY IF CONSTRUCTION ACTIVITY WILL REQUIRE THE BLOCKAGE OF EMERGENCY ACCESS TO THE AIRPORT

6. FOD MANAGEMENT

- THE CONTRACTOR SHALL DISCARD ANY FOREIGN OBJECT DEBRIS (FOD) ON THE AIRFIELD PAVEMENTS.
- 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.
- 3. THE CONTRACTOR SHALL THOROUGHLY CLEAN ALL CONSTRUCTION AREAS AND HALL BOLITES AT THE END OF EACH WORKING DAY, REGARDLESS OF THE WORK AREA BEING OPEN OR CLOSED TO AIR TRAFFIC

7. PROTECTION OF NAVAIDS

- THE CONTRACTOR SHALL MAINTAIN A 100' DISTANCE BETWEEN HIS OPERATIONS AND ANY FAA-OWNED NAVAID (TYPICALLY ORANGE). CONTRACTOR SHALL CONTACT ATCT PRIOR TO ENTERING AN ILS CRITICAL AREA AS SHOWN ON THE SITE PLAN.
- ANY WORK WHICH AFFECTS A NAVAID WILL BE COORDINATED WITH 2. FAA ATO THROUGH THE AIRPORT. WORK IN A NAVAID CRITICAL AREA IS RESTRICTED AND SUBJECT TO AVAILABILITY BASED ON BUNWAY CONFIGURATION AND WEATHER CONDITIONS AND MAY BE POSTPONED BY THE AIRPORT AT ANY TIME.

8. WILDLIFE MANAGEMENT

- THE CONTRACTOR SHALL NOTIFY PUBLIC SAFETY OR THE R.P.R. IF ANY WILDLIFF IS SEEN ENTERING THE AIRPORT
- CONTRACTOR ACCESS GATES SHALL REMAIN CLOSED AND 2. LOCKED WHEN THE CONTRACTOR IS NOT WORKING.
- З. THE CONTRACTOR SHALL DISPOSE OF ALL TRASH INCLUDING FOOD SCRAPS IN APPROVED CONTRACTOR PROVIDED CONTAINERS
- THE CONTRACTOR SHALL MAINTAIN THE SITE TO LIMIT STANDING WATER AND TALL GRASS TO REDUCE THEIR ATTRACTION AND DISRUPTION TO WILDLIFE HABITAT.

9. NOTIFICATION OF CONSTRUCTION ACTIVITIES

- THE CONTRACTOR SHALL PROVIDE A 24 HOUR EMERGENCY CONTACT PERSON AND PHONE NUMBER
- THE CONTRACTOR SHALL GIVE A MINIMUM OF 72 HOURS NOTICE TO 2. AIRPORT OPERATIONS/ARFF PRIOR TO CLOSING ANY PAVEMENTS SO THAT PROPER NOTAMS MAY BE ISSUED BY THE AIRPORT.
- FOR ANY EQUIPMENT USED BY THE CONTRACTOR WITH A HEIGHT З. GREATER THAN 25', THE CONTRACTOR SHALL PROVIDE TO THE AIRPORT THE TYPE OF EQUIPMENT, TOTAL HEIGHT, AND LOCATION WHERE THE EQUIPMENT WILL BE USED. THE AIRPORT WILL SUBMIT FAA FORM 7460-1 TO THE FAA FOR AN AIRSPACE STUDY. NO EQUIPMENT WITH A HEIGHT GREATER THAN 25' SHALL BE USED UNTIL A DETERMINATION FROM FAA IS RECEIVED.
- 4. IN THE EVENT OF AN EMERGENCY, THE CONTRACTOR SHALL CALL
- CONTACTS FOR THIS PROJECT ARE AS LISTED BELOW. 5. PUBLIC SAFETY JOHN CUMBEE - FIRE MARSHAL OFFICE (217) 244-8764

AIRPORT OPERATIONS TIM BANNON A.A.E. - EXECUTIVE DIRECTOR OFFICE (217) 300-8225

ENGINEER CHRIS GROTH P.E. - PROJECT ENGINEER (217) 787-8050 **RESIDENT PROJECT REPRESENTATIVE TO BE DETERMINED** OFFICE (217) 787-8050

10. INSPECTION REQUIREMENTS

- THE CONTRACTOR SHALL INSPECT THE JOB SITE DAILY TO ENSURE COMPLIANCE WITH THE CSPP. THE CHECKLIST FOUND IN APPENDIX 3 OF FAA AC 150/5370-2G OR LATEST MAY BE USED TO AID IN THE INSPECTIONS.
- THE CONTRACTOR SHALL BEQUEST FINAL OPERATIONAL 2. INSPECTION OF EACH PHASE WORK AREA PRIOR THE AREA BEING REOPENED. PUBLIC SAFETY WILL DETERMINE IF THE WORK AREA IS ALLOWED TO BE OPENED.

11. UNDERGROUND UTILITIES

- IT WILL BE NECESSARY FOR THE CONTRACTOR TO MAKE HIS OWN 1. FIELD INVESTIGATION TO DETERMINE THE EXACT LOCATION OF THE UNDERGROUND UTILITIES AT CRITICAL POINTS. LOCATION OF UNDERGROUND UTILITIES AS INDICATED ON THE PLANS HAS BEEN OBTAINED FROM EXISTING RECORDS NEITHER THE OWNER NOR THE ENGINEER ASSUMES ANY RESPONSIBILITY IN RESPECT TO THE ACCURACY, COMPLETENESS OR SUFFICIENCY OF THE INFORMATION. ANY UTILITY, INCLUDING AIRFIELD FLECTRICAL CABLE AND LIGHTS, DAMAGED BY THE CONTRACTOR SHALL BE REPAIRED BY HIM AT HIS OWN EXPENSE IN A MANNER WHICH IS SATISFACTORY TO THE ENGINEER AND TO THE OWNER OF THE UTILITY. ANY REPAIRS THAT MUST BE MADE BY THE OWNER OF THE UTILITY SHALL HAVE THE COST REIMBURSED TO THE UTILITY BY THE CONTRACTOR. AIRFIELD LIGHTING CABLES DAMAGED BY THE CONTRACTOR SHALL BE REPAIRED BY A QUALIFIED ELECTRICIAN WITH THE COSTS TO BE BORNE BY THE CONTRACTOR
- BEFORE INITIATING ANY DIGGING, DRILLING OR EXCAVATING ON 2. THE AIRPORT PROPERTY, THE CONTRACTOR SHALL CALL J.U.L.I.E. AND CONTACT THE LOCAL FAA OFFICE TO ABBANGE FOR LITHITY LOCATES. SEE SECTION 70-04 OF THE SPECIAL PROVISIONS FOR UTILITY CONTACT INFORMATION.

12. HAZARDOUS MATERIALS (HAZMAT) MANAGEMENT

- THE CONTRACTOR SHALL DEVELOP A HAZMAT MANAGEMENT & RESPONSE PLAN AND KEEP COPIES ON THE OBSITE OF MATERIAL SAFETY DATA SHEETS FOR ALL MATERIALS HANDLED ON THE
- FUELING OPERATIONS SHALL NOT OCCUR IN ANY ACTIVE OBJECT 2. FREE AREAS.

13. PENALTIES

NONCOMPLIANCE BY THE CONTRACTOR WITH AIRPORT RULES AND REGULATIONS OR FAILURE TO COMPLY WITH THE AIRPORT'S APPROVED CSPP AND THE CONTRACTOR'S APPROVED SPCD MAY RESULT IN FINES AS ALLOWED BY LAW.

14. SPECIAL CONDITIONS

1 CONTRACTOR. AIRPORT.

THE CONSTRUCTION ACTIVITY PLAN. 2

LATEST EDITION.

17. HAZARD MARKING AND LIGHTING

- CONSTRUCTION EQUIPMENT.
- 2. EQUIPMENT HEIGHT IS 25'.
- THE ENGINEER.
- FLAG PLACEMENT
- LIGHTS.

18. PROTECTION

- 1 TO THE REQUESTED CLOSURE TIME.
- 2. CLOSURE TIME.
- CLOSUBE TIME

19. OTHER LIMITATIONS ON CONSTRUCTION

- DOCUMENTS

ADJACENT CONSTRUCTION MAY IMPACT THE OPERATIONS OF THE CONTRACTOR SHALL COORDINATE WITH ADJACENT CONTRACTOR(S) TO PROVIDE UNHINDERED ACCESS TO EACH WORK AREA AND ALLOW FOR THE TIMELY PROSECUTION AND PROGRESS OF ANY OTHER WORK BEING PERFORMED AT THE

15. RUNWAY AND TAXIWAY VISUAL AIDS

ALL BUNWAYS, TAXIWAYS, AND APRONS SHALL BE KEPT OPEN TO AIRPORT TRAFFIC DURING CONSTRUCTION EXCEPT AS NOTED IN

IF ANY BUNWAY 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

16. MARKING AND SIGNS FOR ACCESS ROUTES

BARRICADES AND SIGNS SHALL BE USED ALONG THE CONTRACTOR'S ACCESS ROUTE AS DETAILED ON THIS SHEET AND THE CONSTRUCTION ACTIVITY PLAN SHEET.

THE CONTRACTOR SHALL FURNISH, ERECT, AND MAINTAIN MARKINGS AND ASSOCIATED LIGHTING OF OPEN TRENCHES, EXCAVATIONS, TEMPORARY STOCKPILES, AND HIS/HER

ALL CONSTRUCTION EQUIPMENT SHALL BE FLAGGED AND/OR LIGHTED IN ACCORDANCE WITH FAA ADVISORY CIRCULAR 150/5370-2G AND 150/5210-5D OR LATEST EDITIONS AT ALL TIMES WHILE OPERATING ON AIRPORT PROPERTY. THE MAXIMUM

BARRICADES SHALL BE PLACED AT THE LOCATIONS SHOWN ON THE CONSTRUCTION ACTIVITY PLAN SHEET OR AS DIRECTED BY

THE CONTRACTOR SHALL INSPECT THE BARRICADES ONCE DURING EACH WORK DAY TO INSURE PROPER PLACEMENT AND PROPER OPERATION OF THE RED AND/OR YELLOW LIGHTS AND

THE CONTRACTOR SHALL PROVIDE TWO PORTABLE CLOSED RUNWAY MARKERS FOR USE DURING THE DURATION OF WORK TO CLOSE RUNWAY 4/22. THE CONTRACTOR WILL BE RESPONSIBLE FOR MAINTENANCE OF THE RUNWAY CLOSURE MARKERS INCLUDING FUEL, OIL CHANGES AND REPLACEMENT OF THE

ALL WORK BEQUIRED INSIDE OF THE BUNWAY 4/22 SAFETY AREAS WHICH EXTENDS 250' FROM THE RUNWAY CENTERLINE, WILL REQUIRE THE RUNWAY TO BE CLOSED. THE CONTRACTOR SHALL COORDINATE WITH THE AIRPORT A MINIMUM OF 72 HOURS PRIOR

ALL WORK REQUIRED ON AN ACTIVE TAXIWAY OR INSIDE OF AN ACTIVE TAXIWAY OBJECT FREE AREA, WHICH EXTENDS 93' FROM THE TAXIWAY CENTERI INF OF 50' TAXIWAYS AND 130' FROM THE CENTERLINE OF 75' TAXIWAYS, WILL REQUIRE THE TAXIWAY TO BE CLOSED. THE CONTRACTOR SHALL COORDINATE WITH THE AIRPORT A MINIMUM OF 72 HOURS PRIOR TO THE REQUESTED

ALL WORK REQUIRED ON AN ACTIVE APRON OR INSIDE OF AN ACTIVE SAFETY AREA, WHICH EXTENDS 70' FROM THE APRON'S EDGE OF PAVEMENT WILL BEQUIRE A PORTION OF THAT APRON TO BE CLOSED. THE CONTRACTOR SHALL COORDINATE WITH THE AIRPORT A MINIMUM OF 72 HOURS PRIOR TO THE REQUESTED

IF, DURING CONSTRUCTION, AN EMERGENCY IS DECLARED BY THE AIRPORT. THE CONTRACTOR SHALL IMMEDIATELY CLEAR THE PAVEMENT OF ALL VEHICLES. PERSONNEL AND EQUIPMENT.

BROKEN CONCRETE, BROKEN ASPHALT, RUBBISH FROM DEMO, AND OTHER MISCELLANEOUS DEBRIS SHALL BE DISPOSED OF OFF AIRPORT PROPERTY, 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 CIRCUITS PRIOR TO CONSTRUCTION AND FOLLOWING CONSTRUCTION AS SPECIFIED IN THE CONTRACT



ense No. 184-000613 CONSULTANTS

> FOR BID SET APRIL 29, 2022

> > PAPI

OWNEF



UNIVERSITY OF ILLINOIS WILLARD AIRPORT SAVOY, ILLINOIS

MARK	DATE	DES	SCRIPTION		
AIP PI	roj. No	. 3-17	-0016-036/37	UN061	UNXXX
IL. PR	OJ. NO.	CMI-4	877		
CMT PROJECT NO:		19005902-10			
CADE	WG FILI	E:	19005902-10-0	GC001.DWG	
DESIG	NED BY	:	CMB		
DRAW	N BY:		DPA		
CHEC	KED BY:		MJD		
APPROVED BY:		CBG			
COPY	RIGHT:				
OUEE					







- AIRPORT ISSUES NOTAM FOR CLOSED PAVEMENT, FOLLOWING 72-HOUR NOTICE GIVEN BY THE CONTRACTOR
- 2. CONTRACTOR PLACES BARRICADES & CLOSURE MARKINGS WITH AIRPORT APPROVAL
- 3. PRIOR TO BEGINNING WORK AS NOTED ON THIS DRAWING. THE CONTRACTOR SHALL PLACE THE TRAFFIC CONTROL DEVICES AS SHOWN ON THIS DRAWING AND AS REQUIRED BY THE RESIDENT ENGINEER. THE CONTRACTOR SHALL MAINTAIN THE TRAFFIC CONTROL DEVICES AS LONG AS THEY ARE IN PLACE.
- AIRCRAFT TRAFFIC AND CONTRACTOR VEHICULAR TRAFFIC SHALL NOT 4. INTERSECT OR INTERMINGLE AT ANY TIME.
- PRIOR TO OPENING THE WORK LIMITS TO AIRCRAFT TRAFFIC, THE 5. CONTRACTOR SHALL REQUEST THE AIRPORT TO PERFORM AN INSPECTION.
- 6 LOCATE LITILITIES WITHIN THE CONSTRUCTION LIMITS INCLUDING BUT NOT LIMITED TO THE FAA CABLES, AIRPORT HOMERUNS AND EXISTING UNDERGROUND DRAINAGE.
- RUNWAY CIRCUITS RELATED TO RUNWAYS THAT ARE CLOSED SHALL BE TURNED OFF. TAXIWAY LIGHTS ALONG SEGMENTS OF TAXIWAYS THAT ARE 7. CLOSED SHALL BE COVERED. WHEN ALL PAVEMENTS ARE CLOSED TO AIRCRAFT TRAFFIC, ALL CIRCUITS SHALL BE TURNED OFF.
- COORDINATE WITH THE AIRPORT THROUGH THE RPR A MINIMUM 72 HOURS 8 PRIOR TO BEGINNING WORK WITHIN THE RUNWAY SAFETY AREA.
- 9. PLACE RUNWAY CLOSURE MARKERS AT THE BEGINNING OF PHASE 1 AND AT THE BEGINNING OF EACH WORK PERIOD DURING PHASE 2
- 10. WORK AREAS WITHIN THE RUNWAY SAFETY AREA SHALL HAVE NO OPEN TRENCHES, NO EQUIPMENT, NO MATERIALS AND MEET THE APPROVAL OF THE RESIDENT ENGINEER PRIOR TO REOPENING THE RUNWAY.
- 11. THE CONTRACTOR SHALL TAKE CARE TO AVOID AIRFIELD MARKINGS AS THEY ACCESS THE WORK AREA. DAMAGE TO ANY MARKING DUE TO CONSTRUCTION TRAFFIC WILL REQUIRE THE CONTRACTOR TO REMARK THE ENTIRE LENGTH/AREA OF THE DAMAGED MARKING.
- 12. CONTRACTOR SHALL ACCESS THE RUNWAY 4 PAPI WORK AREA THROUGH AIRPORT GATE #14 OFF OF MONTICELLO ROAD. CONTRACTOR SHALL ACCESS THE RUNWAY 22 PAPI WORK AREA THROUGH AIRPORT GATE #5 NEAR THE AIRFIELD ELECTRIC VAULT. CONTRACTOR SHALL EXIT THE AIRFIELD AS THEY TRAVEL FROM 4 PAPI WORK AREA TO 22 PAPI WORK AREA I.E. ACCESS THROUGH AIRFIELD PAVEMENTS BETWEEN WORK SITES WILL NOT BE ALLOWED.

CRITICAL POINT TABLE			
POINT	LATITUDE	LONGITUDE	ELEVATION
100	N40° 02' 03.38"	W88° 17' 10.69"	748.00
101	N40° 01' 58.84"	W88° 17' 03.90"	750.00
102	N40° 02' 11.58"	W88° 17' 01.40"	748.00
103	N40° 02' 07.03"	W88° 16' 54.61"	750.00

CRITICAL POINT TABLE

POINT	LATITUDE	LONGITUDE	ELEVATION
200	N40° 02' 33.17"	W88° 16' 22.41"	747.00
201	N40° 02' 40.33"	W88° 16' 14.29"	746.00
202	N40° 02' 38.02"	W88° 16' 10.85"	745.00
203	N40° 02' 32.06"	W88° 16' 17.61"	746.00
204	N40° 02' 27.50"	W88° 16' 10.80"	747.00
205	N40° 02' 26.38"	W88° 16' 12.06"	747.00



TAXIWAY C

SWING MANUAL GATE







LEGEND License No. 184-000613 CONSULTANTS DRAINAGE CONDUIT MATERIAL-CONCRETE MIDDLE BEDDING LOOSELY PLACED HAUNCH AND OUTER BEDDING COMPACTION- 95% LOWER SIDE AND OVERFILL COMPACTION- SAME AS EMBANKMENT REQUIREMENTS NOTES BEDDING FACTORS FOR THE INDIRECT DESIGN METHOD (DESIGN 2. BACKFILL TO EXTEND 3' BEYOND EDGES OF PROPOSED PAVEMENT FOR BID SET APRIL 29, 2022 PAPI OWNER **CHAMPAIGN** URBANA UNIVERSITY OF ILLINOIS WILLARD AIRPORT SAVOY, ILLINOIS MARK DATE DESCRIPTION AIP PROJ. NO. 3-17-0016-036/37 UN061 UNXXX IL. PROJ. NO. CMI-4877 CMT PROJECT NO: 19005902-10 CAD DWG FILE: 19005902-10-CU500.DWG DESIGNED BY: CBG DRAWN BY: DPA MJD CHECKED BY: APPROVED BY: CBG COPYRIGHT **DRAINAGE DETAILS 2** CU502 SHEET 9 20 OF

	License No. 184-000613
ATA 04 00+90.36 751.17' 42' 750.38' 3° 09+07.00	CONSULTANTS
817.00 REFERENCE DISTANCE IS TO FRONT FACE OF LHA.	
	FOR BID SET APRIL 29, 2022 PAPI
	OWNER FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF
	UNIVERSITY OF ILLINOIS WILLARD AIRPORT SAVOY, ILLINOIS
	MARK DATE DESCRIPTION AIP PROJ. NO. 3-17-0016-036/37 UN061 UNXXX IL. PROJ. NO. CMI-4877 CMT PROJECT NO: 19005902-10 CCAD DWG FILE: 19005902-10-EL500.DWG CAD DWG FILE: 19005902-10-EL500.DWG CESIGRED BY: LBN DRAWN BY: DPA CHECKED BY: AMB APPROVED BY: CBG COPYRIGHT: CEG
	BHEET TITLE RUNWAY 4 PAPI DETAILS EL501

: K:\ChampaignAp\190059-02_Rwy4-22\Draw\Sheets\PAPI Sheets 19005902-10\19005902-10-E

License No. 184-000613 CONSULTANTS

API DATA		
	22	
	266+92.89	
	746.46	
(TCH)	43'	
	747.26'	
	3°	
I	257+87.77	
D (RRP)	805.12'	

1. PAPI REFERENCE DISTANCE IS TO THE FRONT FACE OF LHA.

NOTES:

- 1. SEE TABLE "A" ON EL501 AND EL502 FOR LAMP HOUSING ASSEMBLY (LHA) LIGHT BEAM CEN
- 2. SEE PROJECT SPECIFICATIONS FOR EXCAVATION AND BACKFILL REQUIREMENTS. EXCAVA
- 3. SEE PROJECT SPECIFICATIONS FOR CONCRETE FORM WORK, REINFORCEMENT, MATERIAL
- 4. AIM EACH OF THE PAPI LHA UNITS INDIVIDUALLY AND SET TILT SWITCHES USING THE AIMII FURNISHED WITH THE EQUIPMENT.
- LHA HAS THREE 1 1/4" DIAMETER CABLE ACCESS HOLES IN UNDERSIDE OF LHA. INSTALL PA LIQUID-TIGHT METALLIC CONDUITS WITH GROUNDING BUSHINGS. INSTALL 6 AWG THWIN 67 TERMINATE CONTROL CONDUCTORS PER THE SYSTEM WIRING DIAGRAM. GROUND BOTH
- THE CONTRACTOR SHALL PERFORM CABLE TESTING PER SPECIFICATIONS IN THE PRESEN CONNECTIONS TO THE LHA'S AND POWER AND CONTROL UNIT.
- THE CONTRACTOR SHALL FURNISH AND INSTALL AIMING ANGLE LABELS ON ONE SIDE OF E BACKING. LETTERING SHALL BE 2" HIGH X 1 1/2" WIDE RED LETTERING.
- 8. THE CONTRACTOR SHALL FURNISH AND INSTALL TWO L-868B LIGHT BASES, CLASS 1A, JAQ CLAMP, 1 14" THICK GALVANIZED STEEL COVER PLATE, JAQUITH CAT. NO. AK402020 AND NI HAVE 2" FLEX CONNEX, JAQUITH CAT. NO. 10530281 AT 0", 90" AND 270", PLYWOOD COVER, DEEP X 12 34" DIAMETER RECESS IN THE CONCRETE SURFACE TO PROVIDE A 3/8" WIDE AIF FLUSH WITH THE TOP OF CONCRETE FOUNDATION.
- THE UPPER CABLE ASSEMBLY SHALL BE AMERACE CAT. NO. 95-04M-P3: WATERTIGHT PLUC THE LOWER CABLE ASSEMBLY SHALL BE AMERACE CAT. NO. 95-04M-R3: WATERTIGHT REC SECURE RECEPTACLE CONNECTOR WITH 961-X CLAMP AND MATCH PLUC MATING POINT
- 10. CONNECTIONS OF #10 TO #14 POWER CABLES SHALL BE MADE WITH 3M DIRECT BURY SPLI THE POWER SPLICE CAN. CONTROL CONDUCTORS ARE NOT SPLICED; SECOND LIGHT BAS

POWER SPLICE CAN INSTALLATION (

A SECTION SCALE: NONE

11. MAKE BELOW GRADE CONNECTIONS USING EXOTHERMIC WELDS PER SPECIFICATIONS.

ATERLINE ELEVATIONS AND AIMING ANGLES. ITION SHALL BE SHORED OR SHAPED PER OSHA REQUIREMENTS. L, PLACEMENT, AND CURING REQUIREMENTS. ING INSTRUMENT PER THE TECHNICAL INSTRUCTION BOOK INVER AND CONTROL CONDUCTORS IN SEPARATE 1" FLEXIBLE ROUNDING WIRE FROM LHA GROUNDING LUG TO BUSHINGS. ENDS OF THE UNUSED CONTROL CONDUCTORS AND SHIELDING. ICE OF AN FAA SSC REPRESENTATIVE PRIOR TO MAKING EACH LHA. LABELS SHALL BE WHITE VINYL WITH SELF-ADHESIVE HUITH TYPE AC24, 12" O.D., 24" DEEP, WITH INTERNAL GROUNDING EOPRENE GASKET, JAQUITH CAT. NO. 10530287. LIGHT BASE SHALL JAQUITH CAT. NO. AZ2001212, SHALL BE USED TO FORM A 1 14" R GAP AROUND THE COVER PLATE. TOP OF COVER SHALL BE S CONNECTOR WITH 4-1/C #14 THWN CABLES, 10' LONG. EPTACLE CONNECTOR WITH 4-1/C #14 THWN CABLES, 10' LONG. O FRANGIBLE COUPLING'S BREAK-OFF POINT. SEE SECTION "A". ICE KIT DB0/B-6. LEAVE A MINIMUM 6" SLACK LOOP COILED INSIDE EI IS A PULL CAN FOR THE CONTROL CABLES.	License No. 184-000613 CONSULTANTS
11 LIQUID.TIGHT FLEXIBLE CONDUIT TO LHA. SEE NOTE 5. REDUCING BUSHING 21 GRS LB CONDULET, FORM 7 UPPER CABLE ASSEMBLY PER NOTE 9 21 FRANGIBLE COUPLING FRANGIBLE COUPLING BREAK OFF POINT/PLUG AND RECEPTACLE MATIMO POINT. SEE NOTE 9. CABLE CLAMP TO SECURE AMERACE RECEPTACLE, MULTHELECTRIC PART NO. 961-X OR EQUAL 38-16 X1 1/2" STANLESS STEEL BOLT, JAQUITH CAT. NO. 802 (8 BQLTS IN 3617), APPL Y ANTI-SEET COMPONDING TO THREADS. NEOPRENE GASKET PER NOTE 8 2" TO 1 1/2" REDUCING BUSHING TO SECURE CLAMP LOWER CABLE ASSEMBLY PER NOTE 9 INTERNAL GROUNDING CLAMP CABLE SPLICE PER NOTE 10 2 AWG BARE COPPER GROUNDING CONDUCTOR 4-1/C 410 TYPE U.S.E. POWER CABLES PER DWG EL566 2" C1 FLEX CONNEX PER NOTE 8 (TYPICAL) 2" PVC SCH 80 CONDUIT (TYPICAL)	FOR BID SET APRIL 29, 2022 PAPI
LHA #4 SHOWN)	UNIVERSITY OF ILLINOIS WILLARD AIRPORT SAVOY, ILLINOIS

	NUMBERED LEGEND (F & I - FURNISH A
1 (1)	TYPE FA-30200 PAPI SYSTEM POWER AND CONTROL UI
F&I (2)	3" DIA GALVANIZED STEEL PIPE WITH UNISTRUT 3" PIPE
F&I (3)	HOT-DIP GALVANIZED P1000 UNISTRUT CHANNEL. CAP
F&I (4)	240V SAFETY SWITCH, 30A, NEMA 3R, SQUARE "D" #H22
F&I 5	SURGE PROTECTION DEVICE, RAYCAP MODEL RAYVOS
F&I 6	3/4" GRS CONDUIT WITH SEALING CONNECTORS AND G
F&I 7	2" GRS EXPANSION COUPLING, APPLETON #XJ2008 W/E
F&I (8)	2" GALVANIZED RIGID STEEL CONDUIT
F&I 9	2" PVC-COATED GALVANIZED RIGID STEEL CONDUIT. S
F&I (10)	1" SCH 80 PVC CONDUIT WITH EXPANSION COUPLING.
F&I (11)	1/C #6 THWN GREEN GROUNDING CONDUCTOR TO COL
F&I (12)	4-1/C #8, 600V, TYPE U.S.E. LOOP POWER CABLES, 8-1/C CABLES AND FOUR #6 BARE COPPER GROUNDING COM
F&I (13)	4-6 PR #19 CONTROL CABLE. GENERAL CABLE #752500
F&I (14)	2-1/C #8, 5KV, 1 #6 AWG GROUND IN UNIT DUCT POWER
F&I (15)	1/C #2 BARE COPPER BONDING CONDUCTOR.
F&I (16)	3/4" X 10' COPPERCLAD GROUND ROD, THOMPSON #TL
F&I (17)	1/C #4/0 BARE COPPER GROUNDING CONDUCTOR.
F&I (18)	AIR TERMINAL WITH ADAPTER, THOMPSON #572E OR E
F&I (19)	VERTICAL CONNECTOR, THOMPSON #690 OR EQUAL.
F&I 20	U-BOLT PIPE CLAMP, THOMPSON #805 OR EQUAL.
F&I (21)	DOWN CONDUCTOR, CLASS II, THOMPSON #506T OR EC ACROSS TOP OF RACK AND CONNECT TO DOWN CONE SIDE OF RACK USING THOMPSON #141 SPLICERS. SEC RESISTANT WIRE TIES.
F&I (22)	12"X10"X6" POWER JUNCTION BOX, NEMA 4X, TYPE 304 #A12106CHNFSS WITH PANEL HOFFMAN #A12P10 OR E
F&I 23	3" PVC-COATED GALVANIZED RIGID STEEL CONDUIT W
F&I (24)	5KVA DRY TYPE TRANSFORMER, SQUARE D, 600V TO 1
F&I (25)	600V SAFETY SWITCH, 30A, NEMA 3R FUSED AT 20A.
NO ⁻ 1.	TES: BURIED METALLIC CONDUIT SHALL BE PVC-COATED GF
	GALVANIZING TO EXPOSED GRS.

ALL CONNECTIONS TO GROUNDING RODS AND PERIMETER GROUNDINGCONDUCTOR SHALL BE MADE USING EXOTHERMIC WELDS PER SPECIFICATIONS.

INSTALL #1/0 GUARD WIRE 10" ABOVE THE CONDUCTORS WITH 3/4" X 10'COPPERCLAD GROUNDING RODS AT 90' +/- INTERVALS 6'-0" MIN. OUTSIDETRENCH ALONG CABLE RUN PER SPECIFICATIONS.

INSTALL BURIED CABLE MARKERS PER PAPI DETAILS 2 SHEET.

REMOVE 6" DEPTH OF TOPSOIL, COMPACT THE SUBGRADE, PLACE GEOTEXILEFABRIC, PLACE AND COMPACT CRUSHED ROCK TO 6" DEPTH. CRUSHED ROCKWORK AREA SHALL BE GRADED SO THAT NO DEPRESSIONS EXIST IN THECRUSHED ROCK SURFACE AND WATER WILL DRAIN AWAY FROM THE RACK.

TRANSITION FROM DOWN CONDUCTOR TO #4/0 BARE COPPER GROUNDINGCONDUCTOR USING EXOTHERMIC WELD PER SPECIFICATIONS, CADWELD

#SVR-2Q8C OR EQUAL.

GRS CONDUIT SHALL EXTEND 5'-0" MIN. BEYOND PERIMETER GROUNDINGCONDUCTOR PRIOR TO TRANSITION TO PVC. BOND CONDUIT TO PERIMETERGROUNDING CONDUCTOR USING EXOTHERMIC WELD PRIOR TO INSTALLINGCONDUCTORS. SEE NOTE 1.

INSTALL LABELS ON ELECTRICAL EQUIPMENT ENCLOSURES PER SPECIFICATION.

ALL LABOR AND MATERIALS ASSOCIATED WITH INSTALLATION OF THE PAPIPOWER AND CONTROL RACK SHALL BE PAID FOR AS PAY ITEM AW125617 PAPIINSTALLATION.

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NUMBERED LEGEND (F & I - FURNISH AND INSTALL, I - INSTALL ONLY) I (1) TYPE FA-24000 PAPI SYSTEM POWER AND CONTROL UNIT F&I (2) 3" DIA GALVANIZED STEEL PIPE WITH UNISTRUT 3" PIPE CLAMPS AND GRS CAP F&I (3) HOT-DIP GALVANIZED P1000 UNISTRUT CHANNEL. CAP ENDS F&I (4) 240V SAFETY SWITCH, 30A, NEMA 3R, SQUARE "D" #H221NRB OR EQUAL, FUSED AT 20A. F&I (5) SURGE PROTECTION DEVICE, RAYCAP MODEL RAYVOSS #120-2S-M3-3-06-A. F&I 6 3/4" GRS CONDUIT WITH SEALING CONNECTORS AND GROUNDING BUSHINGS F&I $\left(7\right)\,$ 2" GRS EXPANSION COUPLING, APPLETON #XJ2008 W/BONDING JUMPER OR EQUAL F&I 8 2" GALVANIZED RIGID STEEL CONDUIT F&I (9) 2" PVC-COATED GALVANIZED RIGID STEEL CONDUIT. SEE NOTE 1 F&I (10) 1" SCH 80 PVC CONDUIT WITH EXPANSION COUPLING. F&I(11) 1/C #6 THWN GREEN GROUNDING CONDUCTOR TO COUNTERPOISE. SEE NOTE 2. F&I (12) 4-1/C #8, 600V, TYPE U.S.E. LOOP POWER CABLES, 8-1/C #14 600V, TYPE U.S.E. LAMP MONITOR CABLES AND FOUR #6 BARE COPPER GROUNDING CONDUCTORS. F&I (13) 4-6 PR #19 CONTROL CABLE. GENERAL CABLE #7525009 WITH COPPER SHIELD OR EQUAL. F&I (14) 3-1/C #2, 600V, TYPE U.S.E. AND 1 #6 AWG INSULATED GROUND IN UNIT DUCT, POWER AND GROUNDING CONDUCTORS.

- F&I (15) 1/C #2 BARE COPPER BONDING CONDUCTOR.
- F&I (16) 3/4" X 10' COPPERCLAD GROUND ROD, THOMPSON #TL3410 OR EQUAL. SEE NOTE 2.
- F&I (17) 1/C #4/0 BARE COPPER GROUNDING CONDUCTOR.
- F&I (18) AIR TERMINAL WITH ADAPTER, THOMPSON #572E OR EQUAL
- F&I (19) VERTICAL CONNECTOR, THOMPSON #690 OR EQUAL
- F&I (20) U-BOLT PIPE CLAMP, THOMPSON #805 OR EQUAL.
- F&I (21) DOWN CONDUCTOR, CLASS II, THOMPSON #506T OR EQUAL. INSTALL DOWN CONDUCTORS ACROSS TOP OF RACK AND CONNECT TO DOWN CONDUCTOR FROM AIR TERMINALS ON EACH SIDE OF RACK USING THOMPSON #141 SPLICERS. SECURE TO TOP CHANNEL WITH U.V. RESISTANT WIRE TIES.
- F&I (22) 12"X10"X6" POWER JUNCTION BOX, NEMA 4X, TYPE 304 SS, WITH TSI TERMINALS. HOFFMAN #A12106CHNFSS WITH PANEL HOFFMAN #A12P10 OR EQUAL. SEE NOTE 8.
- F&I (23) 3" PVC-COATED GALVANIZED RIGID STEEL CONDUIT WITH EXPANSION COUPLING, MIN. 8" TRAVEL

NOTES BURIED METALLIC CONDUIT SHALL BE PVC-COATED GRS PER SPECIFICATIONS. REMOVE COATING TO WELD GROUNDING CONDUCTOR, APPLY COLD GALVANIZING TO EXPOSED GRS.

ALL CONNECTIONS TO GROUNDING RODS AND PERIMETER GROUNDINGCONDUCTOR SHALL BE MADE USING EXOTHERMIC WELDS PER SPECIFICATIONS.

INSTALL #1/0 GUARD WIRE 10" ABOVE THE CONDUCTORS WITH 3/4" X 10'COPPERCI AD GROUNDING RODS AT 90' +/- INTERVALS 6'-0" MIN. OUTSIDETRENCH ALONG CABLE RUN PER SPECIFICATIONS.

INSTALL BURIED CABLE MARKERS PER PAPI DETAILS 2 SHEET.

GEOTEXILEFABRIC, PLACE AND COMPACT CRUSHED ROCK TO 6" DEPTH. CRUSHED ROCKWORK AREA SHALL BE GRADED SO THAT NO DEPRESSIONS EXIST IN THECRUSHED ROCK SURFACE AND WATER WILL DRAIN AWAY FROM THF BACK

TRANSITION FROM DOWN CONDUCTOR TO #4/0 BARE COPPER GROUNDINGCONDUCTOR USING EXOTHERMIC WELD PER SPECIFICATIONS. CADWELD

#SVR-2Q8C OR EQUAL.

GBS CONDUIT SHALL EXTEND 5'-0" MIN BEYOND PERIMETER GROUNDINGCONDUCTOR PRIOR TO TRANSITION TO PVC. BOND CONDUIT TO PERIMETERGROUNDING CONDUCTOR USING EXOTHERMIC WELD PRIOR TO INSTALLINGCONDUCTORS. SEE NOTE 1

ALL LABOR AND MATERIALS ASSOCIATED WITH INSTALLATION OF THE PAPIPOWER AND CONTROL RACK SHALL BE PAID FOR AS PAY ITEM AW125617 PAPIINSTALLATION.

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