

CONSTRUCTION PLANS

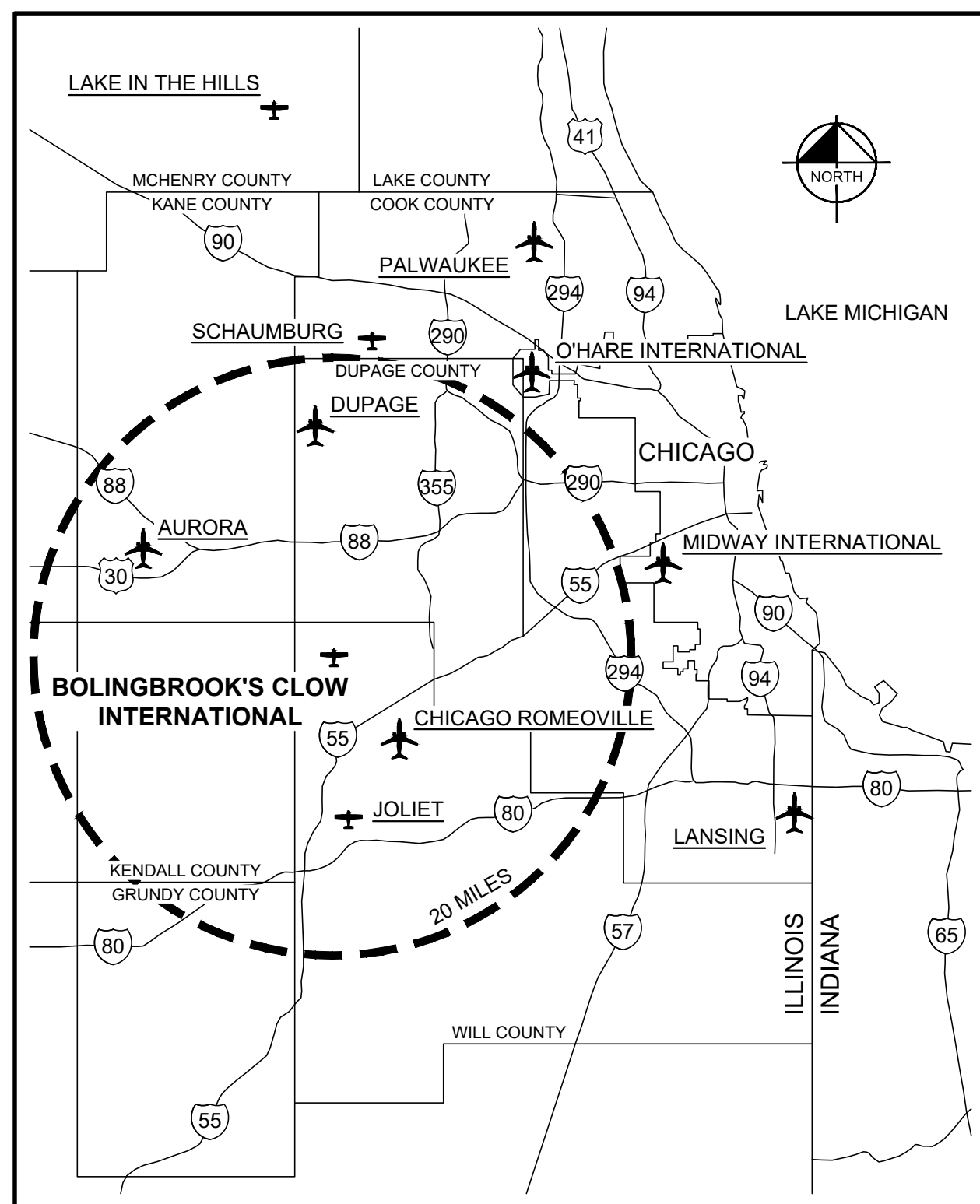
4201 WINFIELD ROAD
 SUITE 600
 WARRENVILLE, IL 60555
 TEL (630) 487-5550

VILLAGE OF BOLINGBROOK BOLINGBROOK'S CLOW INTERNATIONAL AIRPORT (1C5) BOLINGBROOK, WILL COUNTY, ILLINOIS

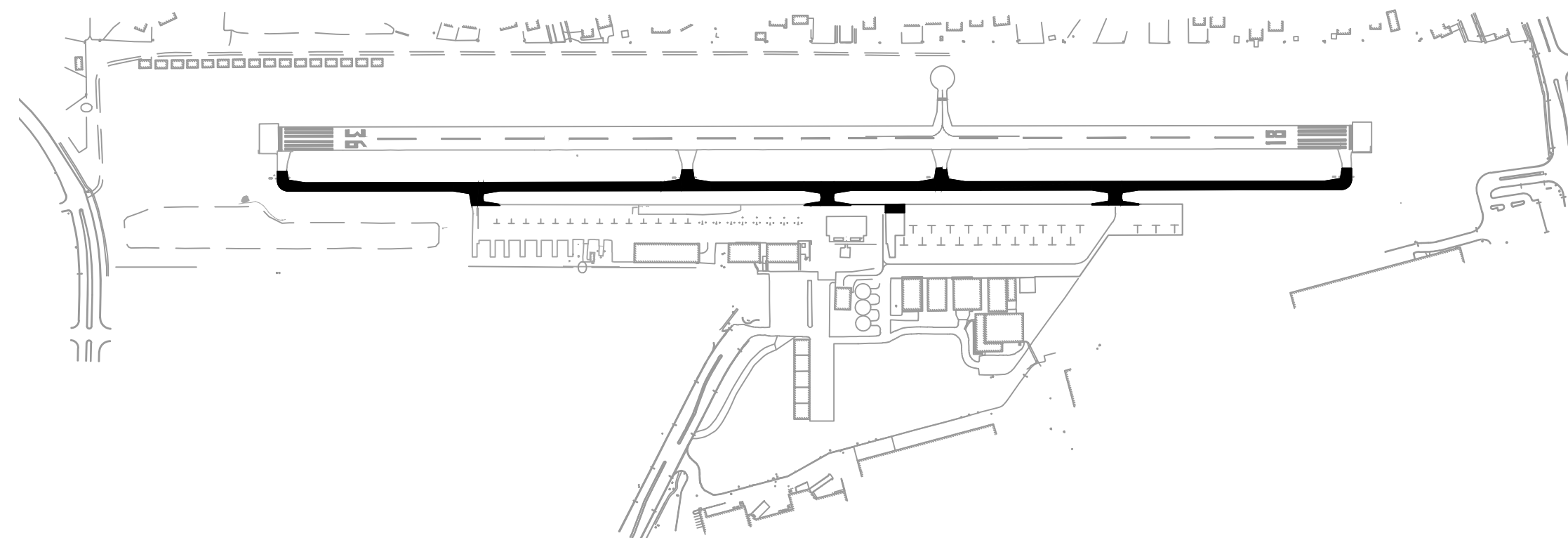
CONSTRUCT REPLACEMENT PARALLEL TAXIWAY AND REPLACE AIRPORT ROTATING BEACON

ILLINOIS PROJECT NO. 1C5-4718

CONTRACT NO. BO007
 SBG PROJECT NUMBER: N/A
 ISSUED FOR BID
 11/22/2024



LOCATION MAP
 NTS



4201 WINFIELD ROAD
 SUITE 600
 WARRENVILLE, IL 60555
 (630) 487-5550

VILLAGE OF BOLINGBROOK
 375 WEST BRIARCLIFF ROAD
 BOLINGBROOK, ILLINOIS 60440
 TEL (630) 226-8400

Matt Eastman
 MATTHEW EASTMAN
 DIRECTOR OF COMMUNITY DEVELOPMENT

11/22/2024
 DATE

4201 WINFIELD ROAD
 SUITE 600
 WARRENVILLE, IL 60555
 (630) 487-5550

J. Yahya
 JUNAID YAHYA, P.E. PROJECT ENGINEER

11/22/2024
 DATE

DATE:	SCALE:	
11/22/2024	NONE	
DRAWN BY:	CHECKED BY:	
JRH	JY	
REV.	DATE	DESCRIPTION
0	11/22/2024	ISSUED FOR BID

TITLE: COVER SHEET
 PROJECT: CONSTRUCT REPLACEMENT PARALLEL TAXIWAY AND
 REPLACE AIRPORT ROTATING BEACON
 VILLAGE OF BOLINGBROOK
 BOLINGBROOK, WILL COUNTY, ILLINOIS

CERTIFICATION:

DRAWING NO. GC-000

PROJECT NUMBER: 168001005



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TITLE: SHEET INDEX, SOQ, LEGEND AND ABBREVIATIONS
PROJECT: CONSTRUCT REPLACEMENT PARALLEL TAXIWAY AND REPLACE AIRPORT ROTATING BEACON VILLAGE OF BOLINGBROOK BOLINGBROOK, WILL COUNTY, ILLINOIS

CERTIFICATION:



DRAWING NO. GC-101

PROJECT NUMBER: 168001005

SHEET INDEX		
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4	GC-103	HORIZONTAL AND VERTICAL CONTROL PLAN
5	PH-100	CONSTRUCTION SAFETY AND PHASING PLAN
6	PH-101	OPERATIONAL DETAIL - PHASE 1
7	PH-102	OPERATIONAL DETAIL - PHASE 2
8	PH-103	OPERATIONAL DETAIL - PHASE 3
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23	GL-201	PLAN AND PROFILE - TAXIWAY A
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33	CG-201	DRAINAGE PROFILES AND TABLES
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35	CG-502	DRAINAGE DETAILS
36	UD-101	UNDERDRAIN PLAN
37	UD-102	UNDERDRAIN PLAN
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39	UD-104	UNDERDRAIN PLAN
40	UD-501	UNDERDRAIN DETAILS
41	UD-502	UNDERDRAIN DETAILS
42	EC-101	EROSION CONTROL PLAN
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45	EC-104	EROSION CONTROL PLAN
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52	EL-101	ELECTRICAL LAYOUT PLAN
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54	EL-502	ELECTRICAL DETAILS
55	EL-503	ELECTRICAL DETAILS

BASE BID					
NO.	ITEM	DESCRIPTION	UNIT	QUANTITY	FIELD QUANTITY
1	AR101510	AIRPORT ROTATING BEACON	EACH	1	
2	AR101900	BEACON REMOVAL	EACH	1	
3	AR109210	VAULT MODIFICATIONS	LUMP SUM	1	
4	AR110949	ADJUST CABLE MARKERS	EACH	8	
5	AR125100	ELEVATED RETROREFLECTIVE MARKER	EACH	78	
6	AR125912	REMOVE RETROREFLECTIVE MARKER	EACH	40	
7	AR150520	MOBILIZATION	LUMP SUM	1	
8	AR150530	TRAFFIC MAINTENANCE	LUMP SUM	1	
9	AR150540	HAUL ROUTE	LUMP SUM	1	
10	AR152410	UNCLASSIFIED EXCAVATION	CUBIC YARD	7580.0	
11	AR152515	SUBGRADE UNDERCUT	CUBIC YARD	920.0	
12	AR154606	GRANULAR DRAINAGE SUBBASE - 6"	SQUARE YARD	11920.0	
13	AR156510	SILT FENCE	LINEAR FOOT	5800.0	
14	AR156513	SEPARATION FABRIC	SQUARE YARD	11920.0	
15	AR156520	INLET PROTECTION	EACH	25	
16	AR401614	BIT. SURF. CSE. - METHOD II, SUPERPAVE	TON	2480.0	
17	AR401650	BITUMINOUS PAVEMENT MILLING	SY	150.0	
18	AR401660	SAW AND SEAL BIT. JOINTS	LINEAR FOOT	1050.0	
19	AR401900	REMOVE BITUMINOUS PAVEMENT	SQUARE YARD	10000.0	
20	AR602510	BITUMINOUS PRIME COAT	GALLONS	775	
21	AR603510	BITUMINOUS TACK COAT	GALLONS	1330	
22	AR620520	PAVEMENT MARKING - WATERBORNE	SQUARE FOOT	3100.0	
23	AR701412	12" RCP, CLASS III	LINEAR FOOT	187.0	
24	AR701418	18" RCP, CLASS III	LINEAR FOOT	82.0	
25	AR701424	24" RCP, CLASS III	LINEAR FOOT	113.0	
26	AR701900	REMOVE PIPE	LINEAR FOOT	424.0	
27	AR705506	6" PERFORATED UNDERDRAIN	LINEAR FOOT	3425.0	
28	AR705548	8" NON PERFORATED UNDERDRAIN	LINEAR FOOT	256.0	
29	AR705640	UNDERDRAIN CLEANOUT	EACH	22	
30	AR751411	INLET - TYPE A	EACH	7	
31	AR751540	MANHOLE 4'	EACH	1	
32	AR751906	REMOVE CATCH BASIN	EACH	10	
33	AR751940	ADJUST INLET	EACH	2	
34	AR801714	PROVIDE AND INSTALL NEW H-20 LOAD RATED CONCRETE HANDHOLE	EACH	1	
35	AR801715	NEW CONCRETE ENCASED 1-2" SCH 40 PVC WITH (2) CU #8 AWG AND (1) #8 CU AWG GND	LINEAR FOOT	35.0	
36	AR801716	CRUSHED AGG. BASE COURSE - VARIABLE DEPTH	CUBIC YARD	2430.0	
37	AR901510	SEEDING	ACRE	7.16	
38	AR905510	TOPSOILING (FROM ON SITE)	CUBIC YARD	2330.0	
39	AR908510	MULCHING	ACRE	7.16	

LEGEND

—ROFA—	RUNWAY OBJECT FREE AREA	△	FOUND SURVEY MONUMENT
—RSA—	RUNWAY SAFETY AREA	× 656.15	SPOT ELEVATION
—TOFA—	TAXIWAY OBJECT FREE AREA	ⓔ	EXISTING ELECTRICAL HANDHOLE
—TSA—	TAXIWAY SAFETY AREA	ⓔ	EXISTING ELECTRICAL MANHOLE
—ST—	PROPOSED STORM SEWER PIPE	ⓔ	EXISTING ELECTRICAL CABINET
—ST—	EXISTING STORM SEWER PIPE	ⓔ	EXISTING ELECTRICAL DUCT MARKER
—657—	EXISTING CONTOUR	ⓔ	EXISTING COMMUNICATIONS/TELEPHONE PEDESTAL
—657—	PROPOSED CONTOUR	ⓔ	EXISTING COMMUNICATIONS/TELEPHONE MANHOLE
— — —	BITUMINOUS PAVEMENT SAWING	ⓔ	EXISTING NATURAL GAS VALVE
— - - -	LIMITS OF GRADING	ⓔ	EXISTING SANITARY SEWER MANHOLE
—SF—	SILT FENCE	ⓔ	EXISTING WATER MANHOLE
—S—	EXISTING SANITARY SEWER LINE	ⓔ	EXISTING UTILITY
—S—	PROPOSED SANITARY SEWER LINE	ⓔ	EXISTING STORM SEWER INLET
—T—	EXISTING TELEPHONE LINE	ⓔ	PROPOSED STORM SEWER INLET
—WTR—	EXISTING WATER LINE	ⓔ	EXISTING AIRCRAFT TIE DOWN
—W—	PROPOSED WATER LINE	ⓔ	PROPOSED AIRCRAFT TIE DOWN
—X—	EXISTING CHAIN LINK FENCE	ⓔ	EXISTING RETROREFLECTIVE MARKER
—O—	EXISTING WROUGHT IRON FENCE	ⓔ	PROPOSED RETROREFLECTIVE MARKER
— — — COMM — — —	EXISTING COMMUNICATIONS CABLE	ⓔ	BORING LOCATION
— — — COM — — —	PROPOSED COMMUNICATIONS CABLE	ⓔ	INLET PROTECTION
— — — G — — —	EXISTING NATURAL GAS LINE	ⓔ	SURVEY BENCHMARK
—GAS—	PROPOSED NATURAL GAS SLEEVE	ⓔ	CONTROL POINT
— — — E — — —	EXISTING POWER CONDUIT	ⓔ	EXISTING HYDRANT AND VALVE
—ELEC—	PROPOSED ELECTRICAL CONDUIT	ⓔ	PROPOSED WATERMAIN STRUCTURE
— — — UD — — —	PROPOSED UNDERDRAIN		

ABBREVIATIONS

AC	ADVISORY CIRCULAR
AOA	AIR OPERATIONS AREA
APPROX	APPROXIMATELY
BM	BENCHMARK
CB	CATCH BASIN
CL	CENTERLINE
COMM	COMMUNICATIONS
CY	CUBIC YARD
E	EAST
EA	EACH
EG	EXISTING GROUND
EL	ELEVATION
EX	EXISTING
FAA	FEDERAL AVIATION ADMINISTRATION
FFE	FINISHED FLOOR ELEVATION
FG	FINISHED GRADE
FL	FLOWLINE
FOD	FOREIGN OBJECT DEBRIS
FT	FEET
GAL	GALLON
GB	GRADE BREAK
IDOT	ILLINOIS DEPARTMENT OF TRANSPORTATION
INV	INVERT
LF	LINEAR FOOT
LP	LOW POINT
LS	LUMP SUM
LT	LEFT
MAX	MAXIMUM
MIN	MINIMUM
MH	MANHOLE
N	NORTH
NE	NORTHEAST
NO	NUMBER
NW	NORTHWEST
NTS	NOT TO SCALE
OC	ON-CENTER
OFA	OBJECT FREE AREA
PC	POINT OF CURVATURE
POC	POINT ON CURVE
PR	PROPOSED
PT	POINT OF TANGENCY
R	RADIUS
RCP	REINFORCED CONCRETE PIPE
RSA	RUNWAY SAFETY AREA
RT	RIGHT
S	SOUTH
SE	SOUTHEAST
SOQ	SUMMARY OF QUANTITIES
STA	STATION
SW	SOUTHWEST
SY	SQUARE YARD
TOFA	TAXILANE/TAXIWAY OBJECT FREE AREA
TSA	TAXILANE/TAXIWAY SAFETY AREA
TW	TAXIWAY
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VAR	VARIES
W	WEST

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ACCESS AND SAFETY NOTES:

I. ACCESS AND VEHICLE PARKING:

- A. ACCESS POINT AND HAUL ROUTE FOR ALL CONTRACTOR PERSONNEL, VEHICLES AND EQUIPMENT ARE AS SHOWN ON THE CONSTRUCTION SAFETY AND PHASING PLAN. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN PERMITS AND COORDINATE OFF SITE HAUL ROUTES WITH THE APPROPRIATE OWNER WHO HAS JURISDICTION OVER THE AFFECTED ROUTE. ON-SITE HAUL ROUTES SHALL BE MAINTAINED BY THE CONTRACTOR AND SHALL BE RESTORED TO THEIR ORIGINAL CONDITION UPON COMPLETION OF BEING USED AS A HAUL ROUTE. HAUL ROUTES ARE TO REMAIN CLEAN AND PASSABLE AT ALL TIMES.
B. CONTRACTOR SHALL FURNISH AND INSTALL A PROFESSIONALLY PAINTED SIGN MEETING OWNER APPROVAL AT THE CONSTRUCTION ENTRANCE TO DIRECT MATERIAL SUPPLIERS AND EMPLOYEES TO THE CONSTRUCTION SITE. THE SIGN SHALL READ "CONSTRUCTION VEHICLES ONLY - NO VENDORS ALLOWED".
C. ALL CONTRACTOR VEHICLES AND PERSONNEL SHALL REMAIN WITHIN THE DESIGNATED CONSTRUCTION LIMITS OR HAUL ROUTES. NO CONTRACTOR VEHICLES WILL BE ALLOWED ON OTHER AIRFIELD OPERATIONS AREAS.
D. THE LIMITS OF CONSTRUCTION, MATERIAL STORAGE AREAS, EQUIPMENT STORAGE AREA, PARKING AREA AND OTHER AREAS DEFINED AS REQUIRED FOR THE CONTRACTOR'S EXCLUSIVE USE DURING CONSTRUCTION SHALL BE MARKED BY THE CONTRACTOR. TEMPORARY BARRICADES, FLAGGING AND FLASHING WARNING LIGHTS WILL BE REQUIRED AT CRITICAL ACCESS POINTS. TYPE OF MARKING AND WARNING DEVICES SHALL BE APPROVED BY THE ENGINEER AND AIRPORT MANAGER.
E. ALL ACCESS GATES SHALL BE KEPT CLOSED DURING CONTRACTOR'S WORK HOURS. THE CONTRACTOR SHALL CLOSE AND LOCK ACCESS GATE AT THE COMPLETION OF EACH WORK DAY. AIRPORT MANAGER WILL PROVIDE LOCK AND KEYS FOR ACCESS GATE.
F. AT THE COMPLETION OF EACH WORKDAY OR WHEN NOT IN USE, CONSTRUCTION EQUIPMENT SHALL BE STORED IN THE CONTRACTOR'S STAGING AREA AND/OR DESIGNATED EQUIPMENT STAGING AREAS. CLOSED AREAS OF APRON PAVEMENT MAY BE USED FOR TEMPORARY STAGING OF EQUIPMENT WITH THE APPROVAL OF THE AIRPORT MANAGER.

II. COORDINATION AND COMMUNICATION DURING CONSTRUCTION:

- A. CONTRACTOR SHALL ADVISE AND THEN VERIFY WITH RESIDENT ENGINEER 72 HOURS IN ADVANCE AS TO THE NEED FOR NOTICES TO AIR MISSIONS (NOTAMS). NO RUNWAY, TAXIWAY OR APRON SHALL BE CLOSED WITHOUT APPROVAL FROM THE AIRPORT MANAGER AND THE RESIDENT ENGINEER.
B. CONTRACTOR SHALL APPOINT A CONSTRUCTION SUPERINTENDENT, SUBJECT TO THE APPROVAL OF THE AIRPORT MANAGER, WHO SHALL BE PRESENT ON THE CONSTRUCTION SITE AT ALL TIMES DURING WORKING HOURS WHILE JOB IS IN PROGRESS. THE SUPERINTENDENT SHALL BE DESIGNATED THE RESPONSIBLE CONTRACTOR'S REPRESENTATIVE WHO SHALL BE AVAILABLE ON A 24-HOUR BASIS.
C. PRIOR TO CONSTRUCTION IN THE RESPECTIVE WORK AREAS, THE CONTRACTOR SHALL CORDON OFF THE WORK AREA AS SHOWN ON DRAWINGS PH-101 THROUGH PH-103 BY USING LOW PROFILE BARRICADES. CONTRACTOR SHALL MAINTAIN, MOVE AND REMOVE BARRICADES (AS DIRECTED BY THE ENGINEER) TO DELINEATE AREAS CLOSED TO AIRCRAFT TRAFFIC.
D. PRIOR TO COMMENCEMENT OF CONSTRUCTION, CONTRACTOR SHALL SUBMIT TO AIRPORT MANAGER THE NAME AND TELEPHONE NUMBER OF THE INDIVIDUAL(S) WHO WILL BE ON CALL 24 HOURS PER DAY FOR EMERGENCY MAINTENANCE OF AIRPORT HAZARD LIGHTING & BARRICADES.
E. THE CONTRACTOR SHALL HAVE ON-SITE AT ALL TIMES DURING WORKING HOURS, AN AIRPORT RADIO TO CONTINUOUSLY MONITOR AIRCRAFT TRAFFIC ON AND AROUND THE AIRPORT. THE COMMON TRAFFIC ADVISORY FREQUENCY IS 122.90. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO MONITOR AND GIVE WAY TO ALL AIRCRAFT TRAFFIC.

III. TRAFFIC CONTROL:

- A. ALL CONSTRUCTION EQUIPMENT AND VEHICLES SHALL BE MARKED WITH COMPANY PAINTED DESIGNS, INSIGNIAS OR OTHER COMPANY MARKINGS, WHICH ARE CLEARLY VISIBLE. CONTRACTOR SHALL PROVIDE EACH VEHICLE WITH A FLAG ON A STAFF ATTACHED TO THE VEHICLE SO THAT THE FLAG WILL BE READILY VISIBLE. THE FLAG SHOULD BE AT LEAST 3 FOOT SQUARE, AND HAVE A CHECKERED PATTERN OF INTERNATIONAL ORANGE AND WHITE. ALL VEHICLES ON THE AIRFIELD SHALL BE LIT WITH A BEACON AND FLASHERS.
B. CONSTRUCTION EQUIPMENT SHALL HAVE AUTOMATIC SIGNALING DEVICES TO SOUND AN ALARM WHEN MOVING IN REVERSE.
C. ONLY RUBBER TIRED VEHICLES WILL BE ALLOWED ON PAVEMENT.
D. NO PEDESTRIAN TRAFFIC OUTSIDE THE CONSTRUCTION WORK SITE WILL BE PERMITTED.
E. ANY DAMAGE TO AIRPORT ROADS, AIRFIELD PAVEMENT, PARKING AREAS, STORAGE AREAS OR TURF AREAS DUE TO CONSTRUCTION EQUIPMENT OR CONSTRUCTION TRAFFIC SHALL BE REPAIRED TO ORIGINAL CONDITION TO THE SATISFACTION OF, AND AT NO EXPENSE TO THE OWNER.
F. ANY WORKERS AND/OR EQUIPMENT NOT IN COMPLIANCE WITH CONSTRUCTION SAFETY AND PHASING PLAN SHALL IMMEDIATELY BE REMOVED FROM THE WORK AREA AND THEY WILL NOT BE PERMITTED TO WORK ON THE SITE THROUGHOUT THE REMAINDER OF THE PROJECT.

IV. EQUIPMENT AND STOCKPILE HEIGHT:

- A. THE MAXIMUM ALLOWABLE HEIGHT OF CONSTRUCTION EQUIPMENT OPERATING IN THE AOA SHALL BE IN CONFORMANCE WITH THE FAA FORM 7460 DEVELOPED FOR THIS PROJECT. EQUIPMENT MUST NOT PENETRATE THE ROFA OF ANY ACTIVE RUNWAY, OR TOFA OF ANY ACTIVE TAXIWAY, AS DEFINED IN FAA AC 150/5300-13, (CURRENT EDITION). ANY DEVIATIONS FROM THE APPROVED FAA FORM 7460 MUST BE APPROVED BY THE AIRPORT AND RESUBMITTED TO THE FAA. ADDITIONAL FAA SUBMITTAL SHALL HAVE NO IMPACT ON THE CONSTRUCTION SCHEDULE.
B. CONTRACTOR SHALL NOT STOCKPILE CONSTRUCTION MATERIALS, SPOILS, DEBRIS OR REFUSE IN ANY AREA WHERE SUCH STOCKPILES WOULD PENETRATE APPROACH SURFACES. STOCKPILING OF MATERIAL WITHIN THE SAFETY AREA AND THE OBJECT FREE AREA OF AN ACTIVE RUNWAY OR TAXIWAY IS PROHIBITED.
C. ALL STOCKPILES ADJACENT TO ACTIVE RUNWAY SAFETY AREAS OR OBSTACLE FREE ZONES SHALL BE IDENTIFIED WITH AN ORANGE & WHITE CONSTRUCTION FLAG AND A 360 DEGREE RED OBSTRUCTION LIGHT PLACED AT THE HIGHEST POINT OF THE STOCKPILE.
D. STOCKPILED MATERIAL SHALL BE CONTAINED IN A MANNER TO PREVENT MOVEMENT AND/OR DUST RESULTING FROM AIRCRAFT PROPELLER WASH OR WIND CONDITIONS. IN ADDITION, STOCKPILED MATERIAL SHALL HAVE SILT FENCE PLACED AROUND IT TO PREVENT FOD FROM MOVING ONTO THE AIRFIELD PAVEMENTS OR POLLUTING WATERCOURSES.

V. EXCAVATION AND TRENCHES:

- A. ALL BARRICADES LOCATED WITHIN OR ADJACENT TO AREAS OF AIRCRAFT OPERATION SHALL BE LOW PROFILE TYPE AS DETAILED ON SHEET PH-501.
B. OPEN TRENCHES AND EXCAVATIONS AT THE CONSTRUCTION SITE SHALL BE PROMINENTLY MARKED WITH ORANGE BARRICADES WITH FLASHING RED LIGHTS ACCEPTABLE TO THE AIRPORT MANAGER.
C. ALL CONSTRUCTION AREAS THAT POSE A HAZARD TO OPERATING AIRCRAFT SHALL BE PROPERLY MARKED WITH LOW-PROFILE BARRICADES.
D. LOW PROFILE BARRICADES SHALL BE KEPT OUTSIDE THE LIMITS OF ANY ACTIVE RUNWAY SAFETY AREA OR TAXIWAY OBJECT FREE AREA.

VI. OTHER SAFETY REQUIREMENTS:

- A. CONTRACTOR SHALL MAINTAIN SAFETY PRACTICES THAT CONFORM TO OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) REGULATIONS.
B. WASTE AND LOOSE MATERIALS CAPABLE OF CAUSING DAMAGE TO AIRCRAFT SHALL NOT BE LEFT WITHIN ACTIVE AIRCRAFT MOVEMENT AREAS. MATERIAL DROPPED WITHIN THESE AREAS SHALL BE CLEANED UP IMMEDIATELY TO THE SATISFACTION OF THE AIRPORT MANAGER OR THE ENGINEER.
C. ALL TRASH RECEPTACLES SHALL BE PROPERLY COVERED TO PREVENT FOD.
D. THE CONTRACTOR SHALL CONTROL BLOWING DUST FROM ANY HAUL ROUTE OR WORK AREA REGARDLESS OF SOURCE.
E. THE CONTRACTOR SHALL BE REQUIRED TO USE A WATER TRUCK AND A SWEEPER DURING ALL CONSTRUCTION ACTIVITIES AND AS DIRECTED BY THE AIRPORT MANAGER. COST FOR THE DUST CONTROL AND SWEEPING WILL NOT BE PAID FOR SEPARATELY, BUT WILL BE CONSIDERED INCIDENTAL TO THE CONTRACT.
F. THE CONTRACTOR MUST ATTEND A MANDATORY SAFETY TRAINING MEETING LED BY THE AIRPORT STAFF PRIOR TO THE START OF CONSTRUCTION.
G. PRIOR TO THE COMPLETION OF EACH WORK DAY, ALL AIRFIELD PAVEMENT SURFACES WITHIN AND ADJACENT TO THE WORK AREA AND THOSE USED AS HAUL ROUTES SHALL BE SWEEP CLEAN.

VII. CONTRACTOR SAFETY PLAN SUBMITTALS:

- F. CONTRACTOR SHALL FURNISH A SAFETY PLAN COMPLIANCE DOCUMENT (SPCD) THAT PROVIDES DETAILED INFORMATION REGARDING COMPLIANCE WITH THE PROJECT'S CONSTRUCTION SAFETY AND PHASING PLAN IN CONJUNCTION WITH HIS/HER PROJECT SCHEDULE. CONTRACTOR SHALL PROVIDE SPCD 10 DAYS PRIOR TO THE PRE-CONSTRUCTION MEETING. INFORMATION SHALL INCLUDE BUT NOT BE LIMITED TO THE FOLLOWING ITEMS:
19. PROPOSED ACCESS POINTS, STAGING AREA AND HAUL ROUTES.
20. ANY TEMPORARY MARKINGS TO BE USED.
21. THE LOCATION AND TYPE OF BARRICADES OR OTHER TRAFFIC CONTROL DEVICES.
22. AREAS TO WHICH CONSTRUCTION OPERATIONS WILL BE LIMITED, ALONG WITH PROPOSED MEASURES TO MINIMIZE THE POSSIBILITY OF CONTRACTOR EQUIPMENT AND/OR WORKERS ACCIDENTALLY ENTERING ANY AOA.
23. ANY REQUESTED TEMPORARY AMENDMENTS TO THE AIRPORT SECURITY PLAN FOR SPECIAL CONDITION OR MODIFICATIONS.
B. CONTRACTOR SPCD SHALL COMPLY WITH ALL REQUIREMENTS INDICATED IN THESE DRAWINGS, SPECIFICATIONS AND SPECIAL PROVISIONS, AND FAA ADVISORY CIRCULAR (AC) 150/5370-2, OPERATIONAL SAFETY ON AIRPORTS DURING CONSTRUCTION, (CURRENT EDITION).

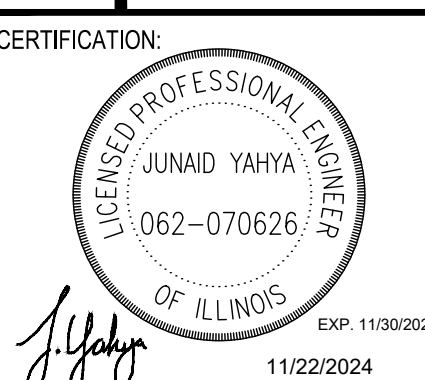
GENERAL NOTES:

- 1. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO SUBMIT, OBTAIN AND PAY FOR ALL APPLICABLE PERMITS, FEES AND LICENSES FOR CONSTRUCTION AND EQUIPMENT.
2. TRAFFIC MAINTENANCE, INCLUDING BUT NOT LIMITED TO, BARRICADES, TAXIWAY CLOSURE MARKERS, ETC SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING CONSTANT COORDINATION BETWEEN THE SUBCONTRACTORS AND THE ENGINEER. ALL CONSTRUCTION ACTIVITIES PLANNED BY THE CONTRACTOR SHALL BE REVIEWED AND APPROVED BY THE ENGINEER AND OWNER.
4. LIMITS OF WORK SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR AND APPROVED BY THE ENGINEER PRIOR TO BEGINNING WORK.
5. THERE SHALL BE NO PERMANENT WASTE SITES ON AIRPORT PROPERTY. ANY TEMPORARY WASTE AREA WILL BE APPROVED BY THE ENGINEER AND SHALL BE KEPT IN A NEAT CONDITION. THE OWNER MAY DIRECT THE CONTRACTOR TO REMOVE WASTE IF NOT PROPERLY MAINTAINED.
6. PRIOR TO COMPLETION OF THE PROJECT THE CONTRACTOR SHALL RESTORE ALL DAMAGED AREAS (NOT DESIGNATED FOR CONSTRUCTION) TO THEIR PRE-CONSTRUCTION CONDITION.
7. LOCATING, FLAGGING, AND PROTECTING ALL EXISTING UTILITIES DURING THE DURATION OF THE CONSTRUCTION PROJECT IS THE RESPONSIBILITY OF THE CONTRACTOR. THE LOCATIONS OF THE EXISTING UTILITIES ON THE CONTRACT DRAWINGS WERE OBTAINED FROM EXISTING RECORDS AND NO GUARANTEE OF ACCURACY OR SUFFICIENCY FOR THIS INFORMATION IS ASSUMED BY THE OWNER OR ENGINEER. ANY DAMAGE TO ANY EXISTING UTILITIES WILL BE REPAIRED OR REPLACED BY THE CONTRACTOR TO THE SATISFACTION OF AND AT NO EXPENSE TO THE AIRPORT MANAGER.
8. THE CONSTRUCTION COVERED BY THE PLANS SHALL CONFORM TO ALL APPLICABLE STANDARDS AND SPECIFICATIONS OF THE FAA AND IDOT.
9. ALL WORKMANSHIP AND MATERIALS SHALL BE SUBJECT TO INSPECTION AND APPROVAL OF THE ENGINEER.
10. CONTRACTOR SHALL EXAMINE THE FINISHED SURFACE, GRADES, TOPSOIL QUALITY, AND TOPSOIL DEPTH PRIOR TO LANDSCAPING. NO WORK SHALL BE CONDUCTED UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED. CONTRACTOR SHALL VERIFY LIMITS OF WORK WITH THE ENGINEER BEFORE STARTING.
11. CONTRACTOR SHALL IMPORT AND/OR PROVIDE SALVAGED TOPSOIL MEETING THE REQUIREMENTS OF THE ILLINOIS DEPARTMENT OF TRANSPORTATION SPECIFICATIONS.
12. THE CONTRACTOR SHALL FURNISH AND PLACE A MINIMUM OF 4.00 INCHES OF TOPSOIL, WITH THE LOWER PORTION BLENDED INTO EXISTING SOILS.
13. PROPOSED ELEVATIONS INDICATED ARE FOR TOP OF FINAL GRADE, PAVEMENT, OR STRUCTURE UNLESS INDICATED OTHERWISE.
14. ELEVATIONS DENOTED AS "MATCH" ARE INTENDED TO MEET EXISTING GRADE ELEVATIONS. CONTRACTOR SHALL VERIFY ELEVATIONS AT TIE-INS AND MATCH POINTS PRIOR TO BEGINNING CONSTRUCTION AND VERIFY WITH THE ENGINEER.
15. ADEQUATE DRAINAGE SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION. ANY DRAINAGE FEATURE OR STRUCTURE DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO EXISTING CONDITIONS OR BETTER SUBJECT TO THE APPROVAL OF THE AIRPORT MANAGER. ANY REWORK OR ADDITIONAL WORK REQUIRED BECAUSE OF THE CONTRACTOR'S FAILURE TO MAINTAIN ADEQUATE DRAINAGE WILL BE AT THE CONTRACTOR'S EXPENSE.
16. THE CONTRACTOR SHALL REMOVE STANDING WATER FROM THE PROJECT WORK LIMITS AS NECESSARY TO PROTECT SUBGRADE, SUBBASE, AND/OR BASE COURSE TO NEW PAVEMENT, SURROUNDING PAVEMENT-TO-REMAIN, OR OTHER COMPLETED WORKS.
17. CONNECTION TO EXISTING WATER, SEWER, AND STORM MAINS SHALL BE CONSTRUCTED IN ACCORDANCE WITH ALL REQUIREMENTS OF ASSOCIATED UTILITY COMPANIES AND AGENCIES.
18. CONTRACTOR IS RESPONSIBLE FOR COORDINATING AND PAYING ALL UTILITY CONNECTION FEES AND OBTAINING ALL PERMITS REQUIRED FOR THE UTILITY CONSTRUCTION AND CONNECTIONS. THIS INCLUDES ALL FEES ASSOCIATED WITH CONNECTION CHARGES AND METERS.
19. THE CONTRACTOR SHALL NOTE THAT OTHER CONTRACTORS MAY BE WORKING IN THE VICINITY OF THE PROJECT AND MAY REQUIRE ACCESS TO THEIR WORK AREAS. THE CONTRACTOR SHALL NOT DIRECTLY COMMUNICATE WITH THE CONTRACTORS ON OTHER PROJECTS UNLESS AUTHORIZED TO DO SO. COOPERATION OF THE CONTRACTOR WITH ADJACENT PROJECTS IS EXPECTED.

Table with 2 columns: DATE, SCALE; DRAWN BY, CHECKED BY. Values: 11/22/2024, NONE; JRH, JY.

Table with 3 columns: REV, DATE, DESCRIPTION. Value: 0, 11/22/2024, ISSUED FOR BID.

TITLE: ACCESS, SAFETY AND GENERAL NOTES
PROJECT: CONSTRUCT REPLACEMENT PARALLEL TAXIWAY AND REPLACE AIRPORT ROTATING BEACON VILLAGE OF BOLINGBROOK BOLINGBROOK, WILL COUNTY, ILLINOIS





DRAWING NO. GC-102
PROJECT NUMBER: 168001005

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LEGEND

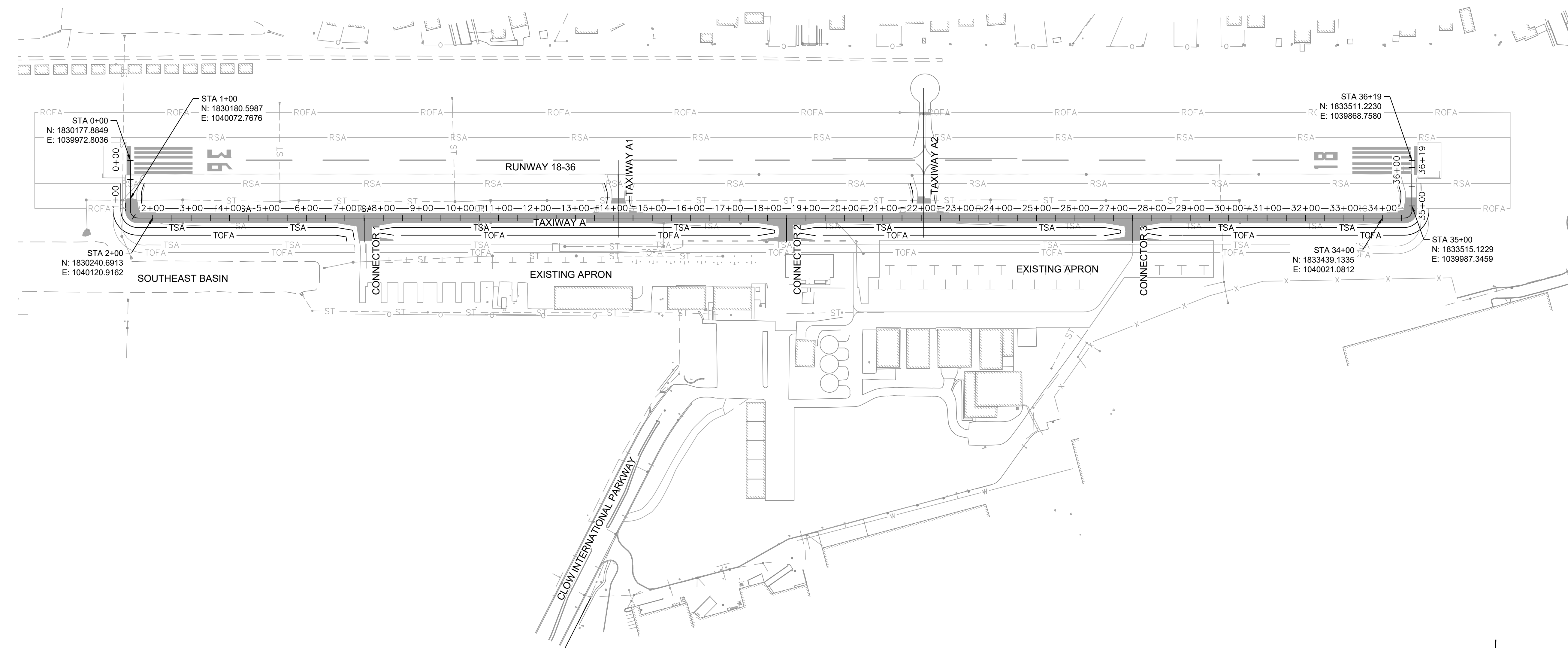
 PROJECT AREA
 SURVEY MONUMENT

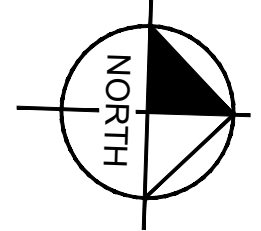
- NOTES**
- THE SURVEY WAS BASED ON THE NORTH AMERICAN DATUM OF 1983 (NAD83) HORIZONTALLY AND THE NORTH AMERICAN VERTICAL DATUM (NAVD83) VERTICALLY. COORDINATES WERE GENERATED IN ILLINOIS STATE PLANE, EAST ZONE IN UNITS OF U.S. SURVEY FOOT.
 - THE CONTRACTOR IS RESPONSIBLE FOR ALL CONSTRUCTION SURVEYING. ANY DEVIATIONS FROM THE EXISTING GRADES AS SHOWN ON THE PLANS SHALL BE IMMEDIATELY REPORTED TO THE ENGINEER. THE CONTRACTOR SHALL PROVIDE THE ENGINEER THEIR EXISTING GROUND SURVEY PRIOR TO STARTING THE EARTHWORK.

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4201 WINFIELD ROAD
SUITE 600
WARRENVILLE, IL 60555
TEL (630) 487-5550

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REV.	DATE	DESCRIPTION
0	11/22/2024	ISSUED FOR BID

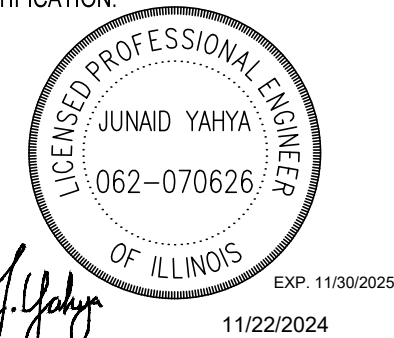



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TITLE: HORIZONTAL AND VERTICAL CONTROL PLAN

PROJECT: CONSTRUCT REPLACEMENT PARALLEL TAXIWAY AND REPLACE AIRPORT ROTATING BEACON VILLAGE OF BOLINGBROOK BOLINGBROOK, WILL COUNTY, ILLINOIS

CERTIFICATION:


 JUNAID YAHYA
 062-070626
 OF ILLINOIS
 EXP. 11/30/2025

DRAWING NO.: GC-103

PROJECT NUMBER: 168001005



AIRSPACE CRITICAL LOCATIONS (7460)

FAA TEMPORARY 7460-1 POINT TABLE									
POINT #	DESCRIPTION	NORTHING	EASTING	MAX STRUCTURE HEIGHT	ELEVATION	OVERALL OBJECT HEIGHT	LATITUDE	LONGITUDE	ASN
1	CONTRACTOR EQUIPMENT	1830151.84	1040065.08	25'	655'	680'	N41° 41' 28.52"	W88° 07' 44.31"	2024-AGL-12957-NRA
2	CONTRACTOR EQUIPMENT	1830155.95	1040196.83	25'	646'	671'	N41° 41' 28.56"	W88° 07' 42.57"	2024-AGL-12958-NRA
3	CONTRACTOR EQUIPMENT	1833546.27	1040091.00	25'	670'	695'	N41° 42' 02.06"	W88° 07' 43.86"	2024-AGL-12959-NRA
4	CONTRACTOR EQUIPMENT	1833542.17	1039959.69	25'	673'	698'	N41° 42' 02.02"	W88° 07' 45.59"	2024-AGL-12960-NRA
5	CONTRACTOR EQUIPMENT	1831094.91	1040253.44	60'	658'	718'	N41° 41' 37.84"	W88° 07' 41.80"	2024-AGL-12961-NRA
6	CONTRACTOR EQUIPMENT	1831097.62	1040340.13	60'	658'	718'	N41° 41' 37.86"	W88° 07' 40.65"	2024-AGL-12962-NRA
7	CONTRACTOR EQUIPMENT	1831226.54	1040336.10	60'	659'	719'	N41° 41' 39.13"	W88° 07' 40.70"	2024-AGL-12963-NRA
8	CONTRACTOR EQUIPMENT	1831224.00	1040249.41	60'	659'	719'	N41° 41' 39.11"	W88° 07' 41.84"	2024-AGL-12964-NRA

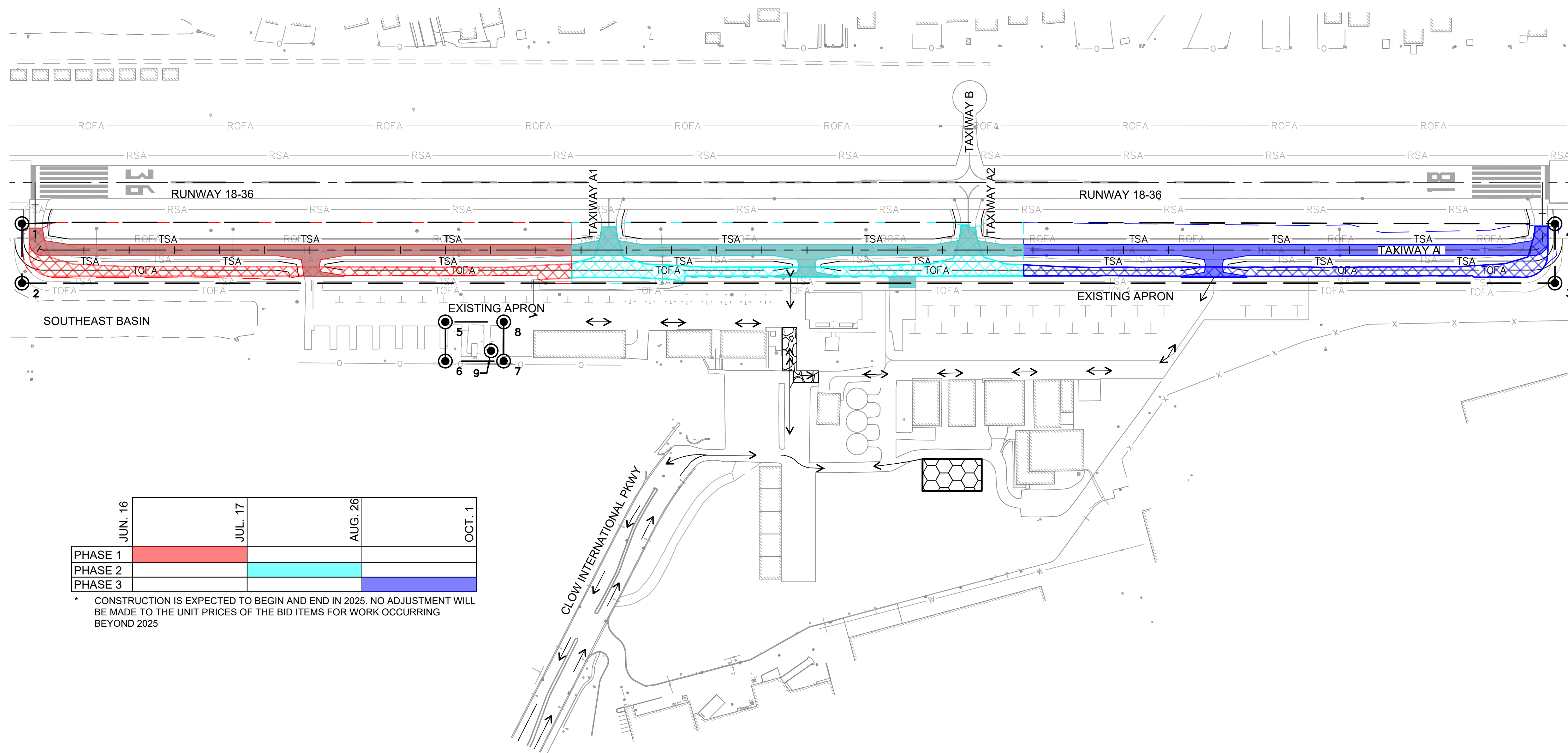
FAA PERMANENT 7460-1 POINT TABLE									
POINT #	DESCRIPTION	NORTHING	EASTING	MAX STRUCTURE HEIGHT	ELEVATION	OVERALL OBJECT HEIGHT	LATITUDE	LONGITUDE	ASN
9	ROTATING BEACON	1831198.04	1040314.09	38'	659'	697'	N41° 41' 38.85"	W88° 07' 40.99"	2024-AGL-15888-NRA

LEGEND

- PHASE 1
- PHASE 1 DEMO LIMITS
- PHASE 2
- PHASE 2 DEMO LIMITS
- PHASE 3
- PHASE 3 DEMO LIMITS
- CONTRACTOR STAGING, CONCRETE WASHOUT, AND MATERIALS STORAGE AREA
- CONSTRUCTION ENTRANCE, SEE DETAIL 2/PH-501
- HAUL ROUTE
- AIRSPACE EVALUATION LIMITS
- AIRSPACE CRITICAL LOCATIONS

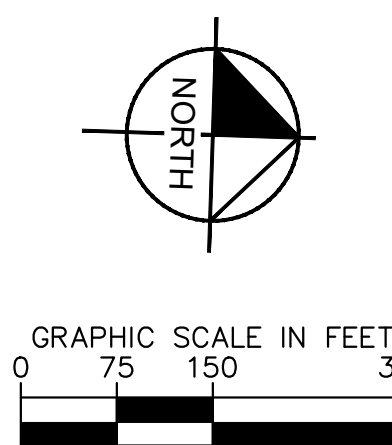
GENERAL NOTES

- THE CONTRACTOR SHALL PROVIDE A CONSTRUCTION SCHEDULE TO THE AIRPORT AND RESIDENT ENGINEER FOR APPROVAL IN ACCORDANCE WITH THESE PHASING PLANS, SPECIFICATIONS, AND GENERAL PROVISIONS.
- PRIOR TO IMPLEMENTATION OF THIS PLAN, THE AIRPORT WILL ANALYZE ALL CONSTRUCTION ACTIVITY AND/OR OTHER SPECIALIZED ACTIVITY ON THE AIRPORT AND DETERMINE THE LIMITATIONS TO BE IMPOSED.
- SUBSTANTIAL COMPLETION OF WORK SHALL INCLUDE ALL WORK REQUIRED TO OPEN TAXIWAY, TAXILANE, APRONS AND HANGARS TO OPERATIONAL USE BY AIRCRAFT.
- WORK WITHIN ACTIVE TAXIWAY SAFETY AND/OR OBJECT FREE AREAS SHALL BE PERFORMED IN ACCORDANCE WITH THE PHASING PLANS AND SHALL BE COORDINATED WITH THE AIRPORT.
- THE CONTRACTOR SHALL COORDINATE WITH THE AIRPORT AND RESIDENT ENGINEER ON EXCESS TOPSOIL STOCKPILE LOCATIONS.
- THE CONTRACTOR SHALL BE AWARE AND YIELD TO ALL ACTIVE AIRCRAFT OPERATIONS DURING CONSTRUCTION.
- THE CONTRACTOR SHALL ACCESS EACH WORK AREA BY THE HAUL ROUTES SHOWN ON THE PLANS. ANY DEVIATION TO THE HAUL ROUTES MUST BE APPROVED BY THE AIRPORT AND RESIDENT ENGINEER.
- THE CONTRACTOR SHALL MAINTAIN ACCESS TO SERVICE ROADS AND AIRPORT TENANT AREAS AT ALL TIMES.
- THE CONTRACTOR SHALL UTILIZE THE AIRPORT ENTRANCE AT CLOW INTERNATIONAL PARKWAY TO GAIN ACCESS TO THE JOB SITE.
- THE USE OF OFF-ROAD TRUCKS ARE NOT PERMITTED ON THE AIRPORT SERVICE DRIVES OR OTHER ROADWAYS. THE CONTRACTOR CAN ONLY UTILIZE TRUCKING EQUIPMENT SUITABLE FOR OVER-THE-ROAD USE.
- THE CONTRACTOR SHALL LIMIT TRUCK TRAFFIC BACKING UP ON CLOW INTERNATIONAL PARKWAY.
- THE EXISTING AND PROPOSED STRUCTURAL PAVEMENT SECTION WAS DESIGNED EXCLUSIVELY FOR USE BY SMALL AIRCRAFT. THE CONTRACTOR SHALL TAKE THE NECESSARY PRECAUTIONS TO PROTECT THE PAVEMENT AND SUBGRADE FROM DAMAGE, WHICH MAY INCLUDE, BUT NOT BE LIMITED TO, USE OF TRACKED EQUIPMENT, AT NO ADDITIONAL COST TO THE CONTRACT.
- THE CONTRACTOR SHALL CONDUCT POWER VACUUM CLEANING IMMEDIATELY FOLLOWING ANY ACCESS ONTO OR CROSSING OF THE PAVEMENT BY CONSTRUCTION TRAFFIC.
- NOTICE OF PROPOSED CONSTRUCTION WAS SUBMITTED ON AUGUST 19, 2024 TO THE FAA OBSTRUCTION EVALUATION/ AIRPORT AIRSPACE ANALYSIS (OE/AAA), PROJECT NUMBER: BOLI-629620934-24



	JUN. 16	JUL. 17	AUG. 26	OCT. 1
PHASE 1				
PHASE 2				
PHASE 3				

* CONSTRUCTION IS EXPECTED TO BEGIN AND END IN 2025. NO ADJUSTMENT WILL BE MADE TO THE UNIT PRICES OF THE BID ITEMS FOR WORK OCCURRING BEYOND 2025



PRINT SHEET IN COLOR



TITLE: CONSTRUCTION SAFETY AND PHASING PLAN
PROJECT: CONSTRUCT REPLACEMENT PARALLEL TAXIWAY AND REPLACE AIRPORT ROTATING BEACON VILLAGE OF BOLINGBROOK BOLINGBROOK, WILL COUNTY, ILLINOIS



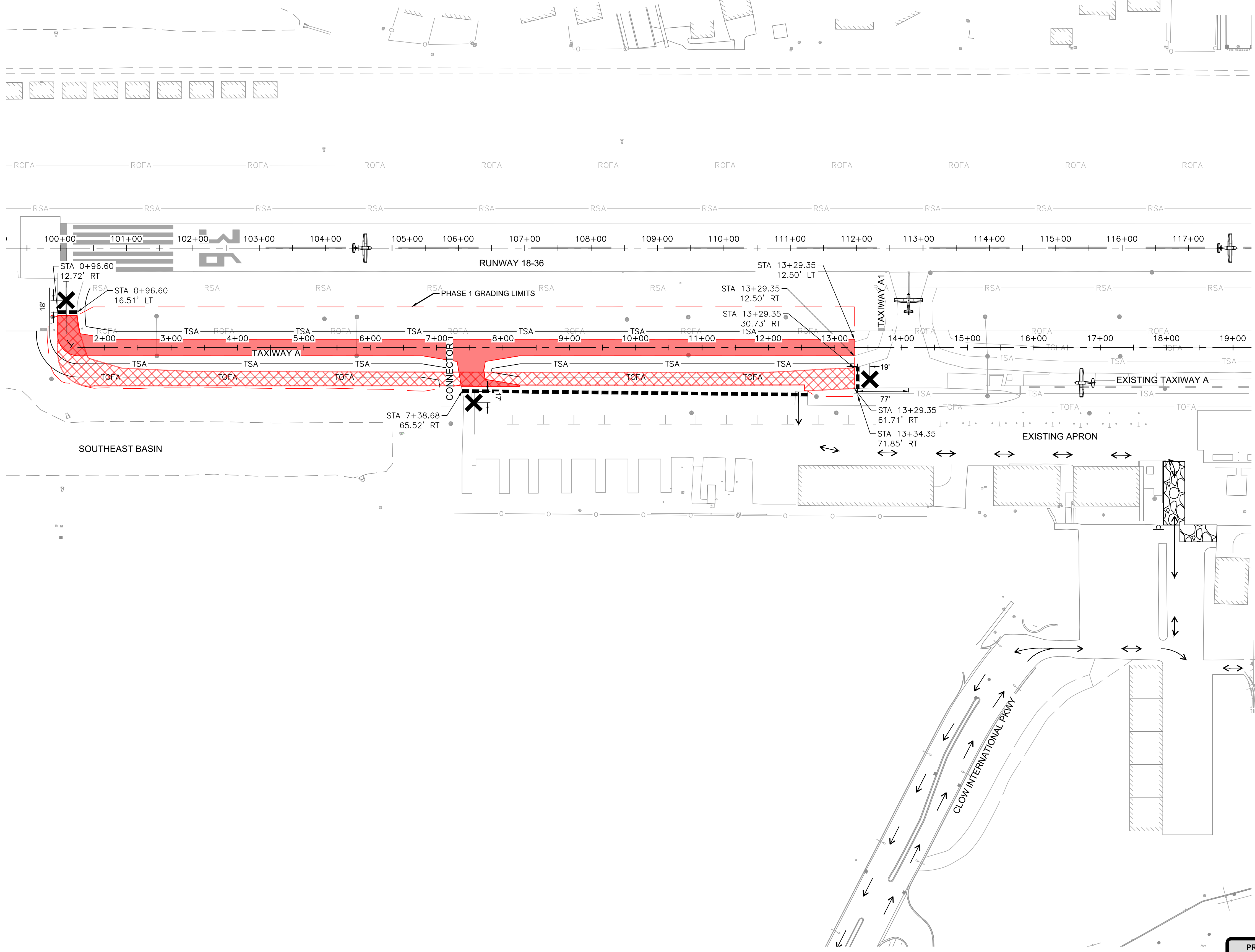
DRAWING NO. **PH-100**
PROJECT NUMBER: 168001005

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PHASE	DURATION (WORKING DAYS)	AIRFIELD CLOSURES	WORK ELEMENTS*	WORK RESTRICTIONS
1	21	1. TAXIWAY A SOUTH OF TAXIWAY A1	1. RECONSTRUCTION OF TAXIWAY A 2. INFIELD GRADING 3. STORM SEWER AND STRUCTURE ADJUSTMENTS 4. PAVEMENT MARKINGS	1. RUNWAY 18-36 TO REMAIN OPEN AT ALL TIMES 2. WORK MAY NOT BEGIN PRIOR TO JUNE 16, 2025.

* THESE ARE MAJOR WORK ELEMENTS ONLY, THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL WORK ELEMENTS WITHIN EACH OPERATIONAL PHASE

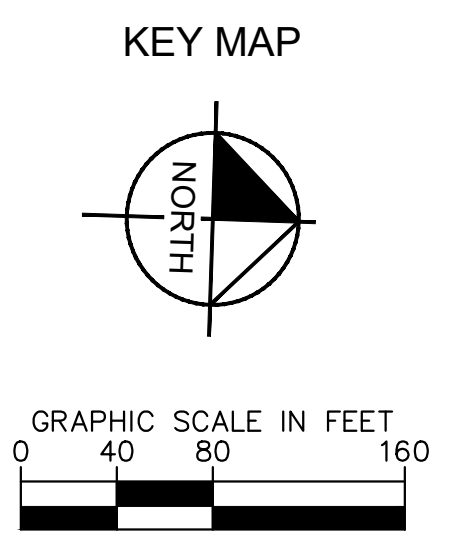


LEGEND

- CONTRACTOR STAGING, CONCRETE WASHOUT, AND MATERIALS STORAGE AREA
- CONSTRUCTION ENTRANCE, SEE DETAIL 2/PH-501
- PHASE 1
- PHASE 1 DEMO LIMITS
- PHASE 1 GRADING LIMITS
- LOW -PROFILE BARRICADES SEE DETAIL 1/PH-501
- GRADING LIMITS
- HAUL ROUTE
- CONSTRUCTION ENTRANCE SIGN, SEE DETAIL 3/PH-501
- OPEN TO AIRCRAFT OPERATIONS
- TAXIWAY CLOSURE MARKER, SEE DETAIL 4/PH-501
- EXISTING RUNWAY SAFETY AREA
- EXISTING RUNWAY OBJECT FREE AREA
- NEW TAXIWAY SAFETY AREA
- NEW TAXIWAY OBJECT FREE AREA

GENERAL NOTES

1. SEE SHEETS GC-102 AND PH-100 FOR GENERAL PHASING AND SAFETY NOTES AND OTHER REQUIREMENTS.



PRINT SHEET IN COLOR

Know what's below. Call before you dig.

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TEL (630) 487-5550

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DRAWN BY:	JRH	CHECKED BY:	JY
REV.	DATE	DESCRIPTION	
0	11/22/2024	ISSUED FOR BID	

TITLE: OPERATIONAL DETAILS - PHASE 1

PROJECT: CONSTRUCT REPLACEMENT PARALLEL TAXIWAY AND REPLACE AIRPORT ROTATING BEACON VILLAGE OF BOLINGBROOK

BOLINGBROOK, WILL COUNTY, ILLINOIS

CERTIFICATION:

11/22/2024

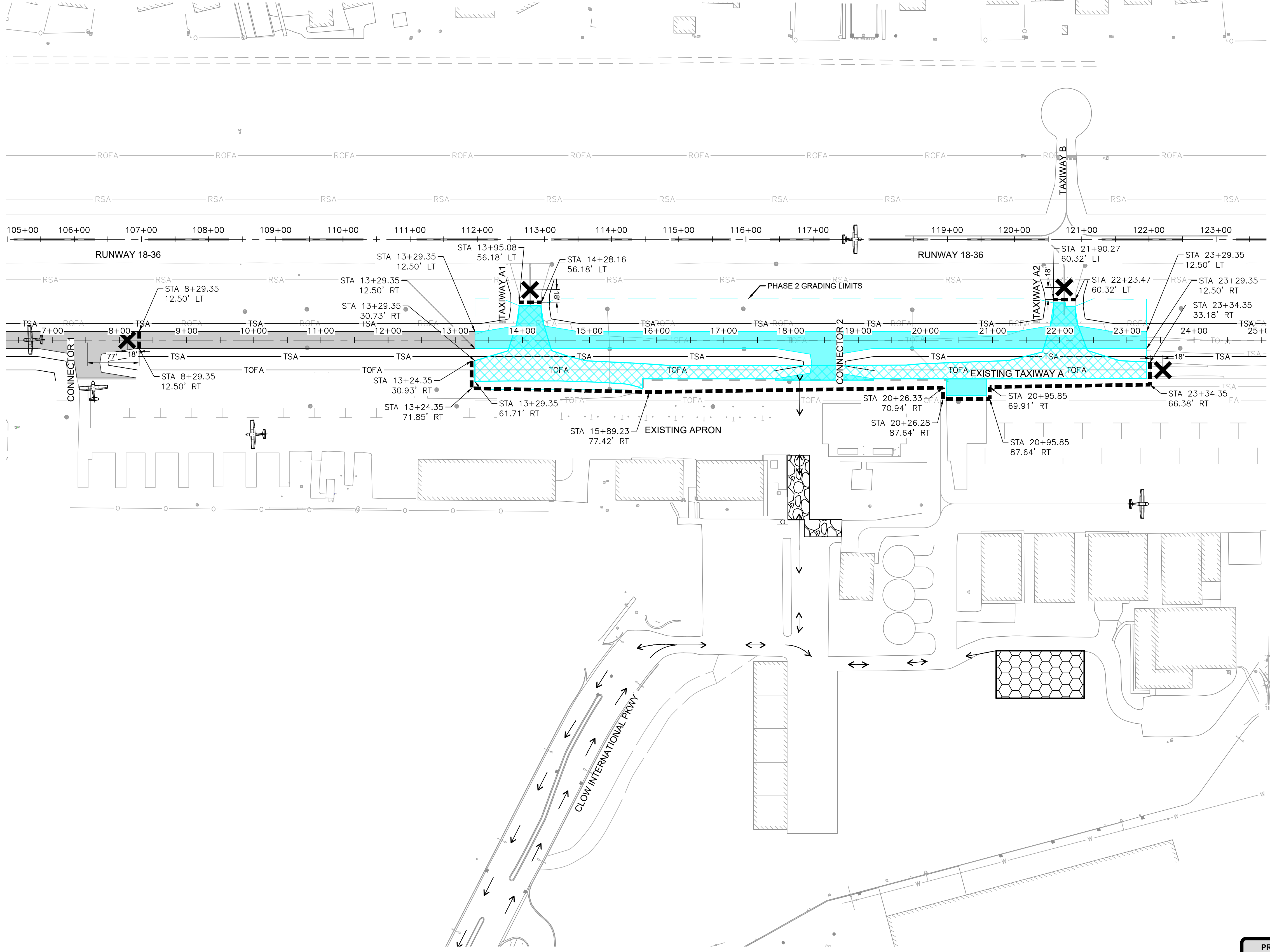
DRAWING NO. **PH-101**

PROJECT NUMBER: 168001005

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PHASE	DURATION (WORKING DAYS)	AIRFIELD CLOSURES	WORK ELEMENTS*	WORK RESTRICTIONS
2	29	1. TAXIWAY A BETWEEN TAXIWAY A1 AND TAXIWAY A2 2. TAXIWAY A1 3. TAXIWAY A2	1. RECONSTRUCTION OF TAXIWAY A 2. INFIELD GRADING 3. STORM SEWER AND STRUCTURE ADJUSTMENTS 4. PAVEMENT MARKINGS	1. RUNWAY 18-36 TO REMAIN OPEN AT ALL TIMES

* THESE ARE MAJOR WORK ELEMENTS ONLY. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL WORK ELEMENTS WITHIN EACH OPERATIONAL PHASE



LEGEND

- CONTRACTOR STAGING, CONCRETE WASHOUT, AND MATERIALS STORAGE AREA
- CONSTRUCTION ENTRANCE, SEE DETAIL 2/PH-501
- PHASE 2
- PHASE 2 DEMO LIMITS
- PHASE 2 GRADING LIMITS
- LOW -PROFILE BARRICADES SEE DETAIL 1/PH-501
- GRADING LIMITS
- HAUL ROUTE
- CONSTRUCTION ENTRANCE SIGN, SEE DETAIL 3/PH-501
- OPEN TO AIRCRAFT OPERATIONS
- TAXIWAY CLOSURE MARKER, SEE DETAIL 4/PH-501
- EXISTING RUNWAY SAFETY AREA
- EXISTING RUNWAY OBJECT FREE AREA
- NEW TAXIWAY SAFETY AREA
- NEW TAXIWAY OBJECT FREE AREA

GENERAL NOTES

- SEE SHEETS GC-102 AND PH-100 FOR GENERAL PHASING AND SAFETY NOTES AND OTHER REQUIREMENTS.

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TITLE: OPERATIONAL DETAILS - PHASE 2

PROJECT: CONSTRUCT REPLACEMENT PARALLEL TAXIWAY AND REPLACE AIRPORT ROTATING BEACON VILLAGE OF BOLINGBROOK BOLINGBROOK, WILL COUNTY, ILLINOIS

KEY MAP

GRAPHIC SCALE IN FEET
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CERTIFICATION:

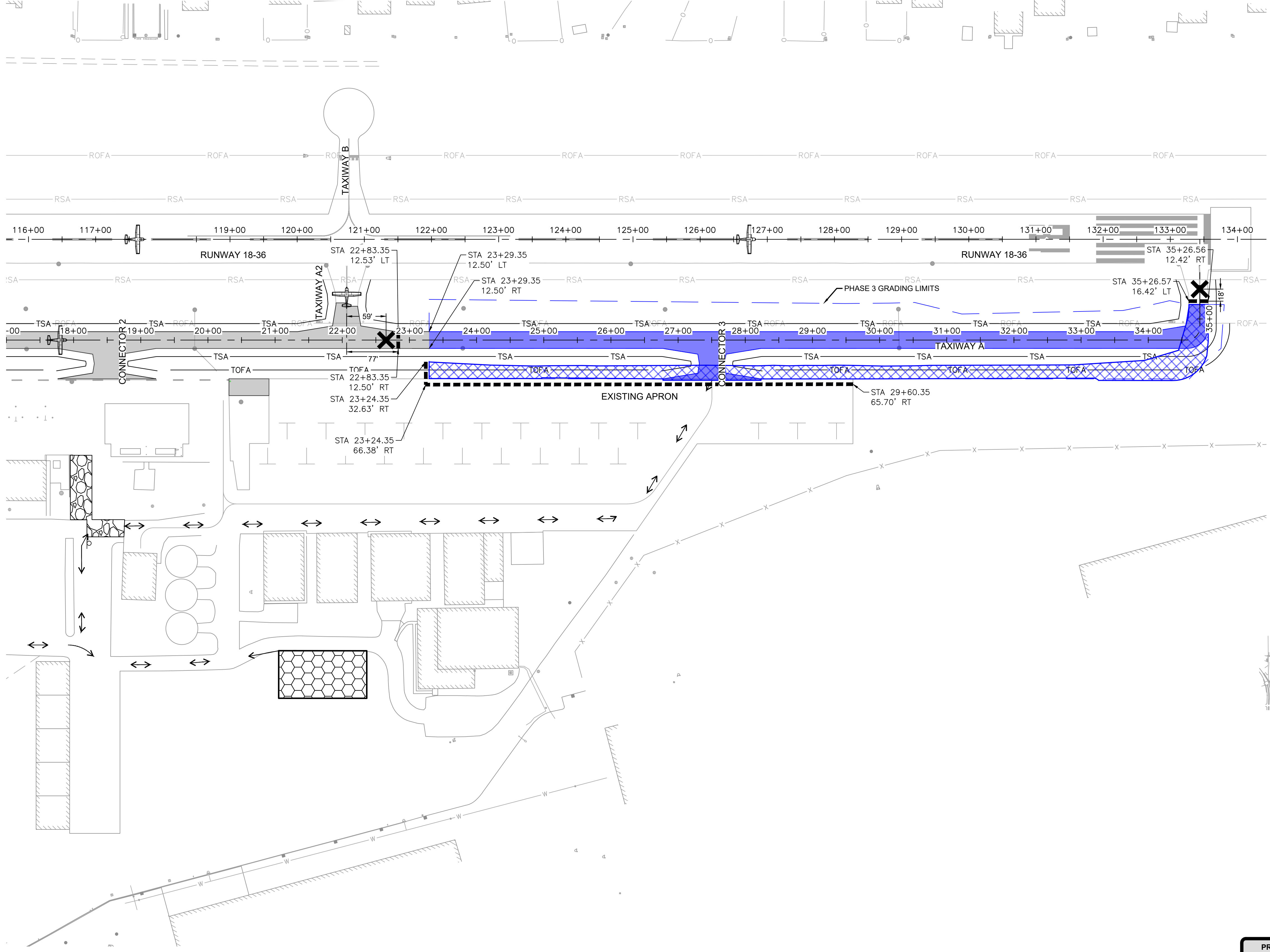
DRAWING NO. PH-102

PROJECT NUMBER: 168001005

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PHASE	DURATION (WORKING DAYS)	AIRFIELD CLOSURES	WORK ELEMENTS*	WORK RESTRICTIONS
3	24	1. TAXIWAY A NORTH OF TAXIWAY A2	1. RECONSTRUCTION OF TAXIWAY A 2. INFIELD GRADING 3. STORM SEWER AND STRUCTURE ADJUSTMENTS 4. PAVEMENT MARKINGS	1. RUNWAY 18-36 TO REMAIN OPEN AT ALL TIMES

*THESE ARE MAJOR WORK ELEMENTS ONLY. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL WORK ELEMENTS WITHIN EACH OPERATIONAL PHASE
 **MARKINGS ON PHASE 3 PAVEMENT WILL REQUIRE AN ADDITIONAL WORKING DAY FOR THE SECOND APPLICATION OF PAVEMENT MARKINGS 30 DAYS AFTER ASPHALT COMPLETION

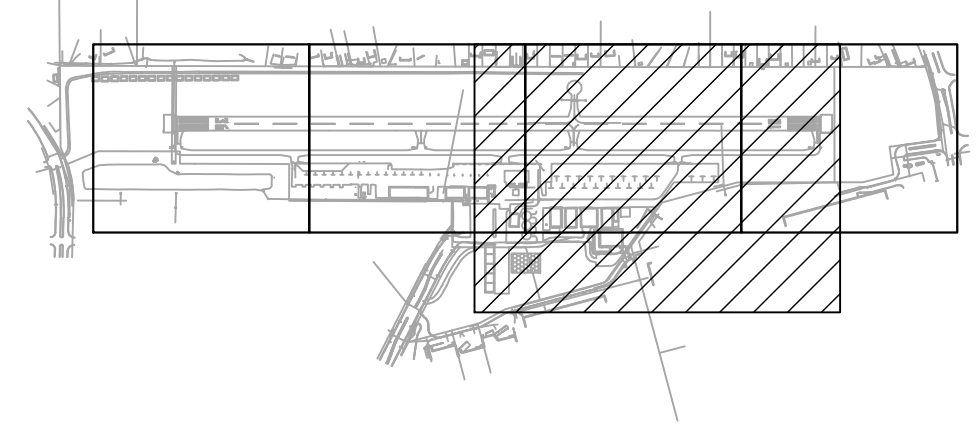


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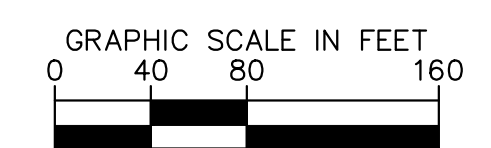
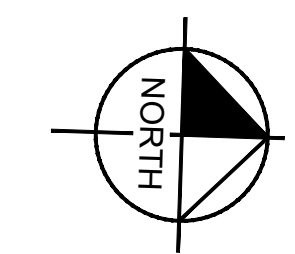
- CONTRACTOR STAGING, CONCRETE WASHOUT, AND MATERIALS STORAGE AREA
- CONSTRUCTION ENTRANCE, SEE DETAIL 2/PH-501
- PHASE 3
- PHASE 3 DEMO LIMITS
- PHASE 3 GRADING LIMITS
- LOW -PROFILE BARRICADES SEE DETAIL 1/PH-501
- GRADING LIMITS
- HAUL ROUTE
- CONSTRUCTION ENTRANCE SIGN, SEE DETAIL 3/PH-501
- OPEN TO AIRCRAFT OPERATIONS
- TAXIWAY CLOSURE MARKER, SEE DETAIL 4/PH-501
- EXISTING RUNWAY SAFETY AREA
- EXISTING RUNWAY OBJECT FREE AREA
- NEW TAXIWAY SAFETY AREA
- NEW TAXIWAY OBJECT FREE AREA

GENERAL NOTES

- SEE SHEETS GC-102 AND PH-100 FOR GENERAL PHASING AND SAFETY NOTES AND OTHER REQUIREMENTS.



KEY MAP



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JRH	JY	
REV.	DATE	DESCRIPTION
0	11/22/2024	ISSUED FOR BID

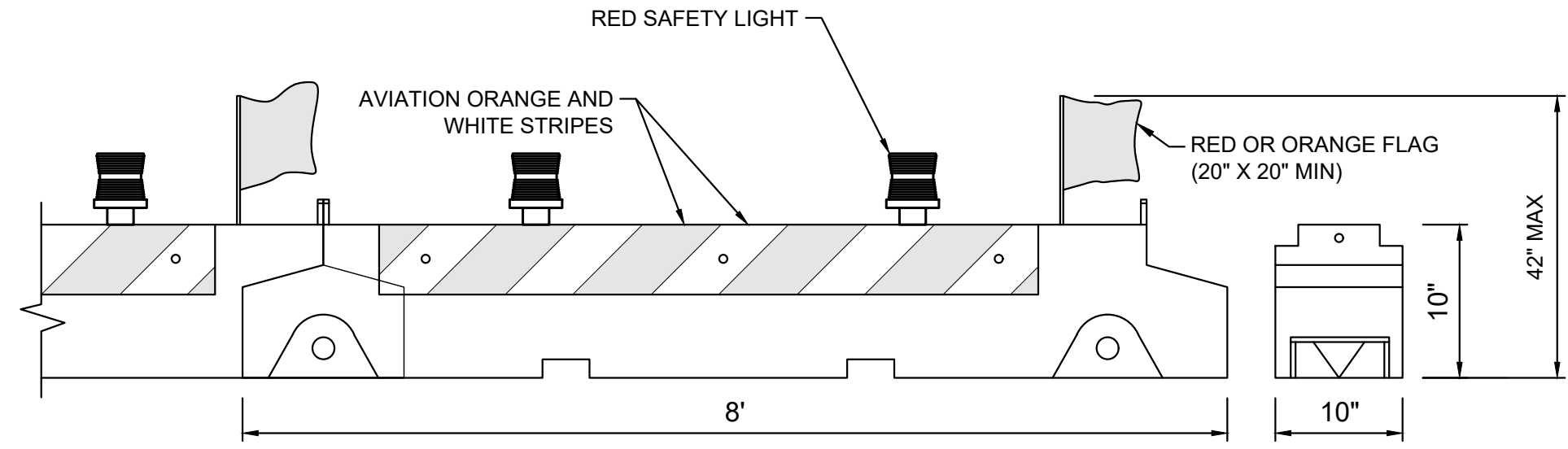
TITLE: OPERATIONAL DETAILS - PHASE 3
PROJECT: CONSTRUCT REPLACEMENT PARALLEL TAXIWAY AND REPLACE AIRPORT ROTATING BEACON VILLAGE OF BOLINGBROOK
 BOLINGBROOK, WILL COUNTY, ILLINOIS



DRAWING NO. **PH-103**

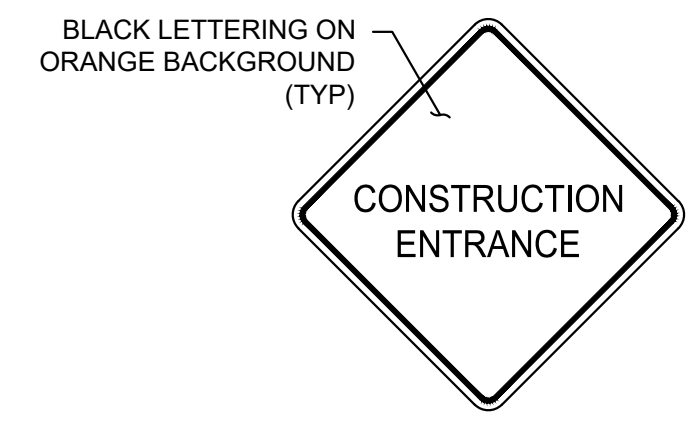
PROJECT NUMBER: 168001005

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BARRICADE NOTES:

- THE CONTRACTOR SHALL FURNISH AND MAINTAIN PORTABLE LOW PROFILE CONSTRUCTION BARRICADES ON THIS PROJECT. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN THE BARRICADES IN WORKING ORDER THROUGHOUT THE PROJECT. MAINTENANCE WILL LIKELY INCLUDE, BUT IS NOT LIMITED TO: REPLACEMENT LAMPS, FLAGS, BARRICADES ETC. BARRICADES SHALL BE INSPECTED FOR SATISFACTORY OPERATION EVERY TWO (2) HOURS DURING WORKING HOURS. NO SEPARATE PAYMENT WILL BE MADE FOR SUPPLYING, MAINTAINING AND MOVING BARRICADES BUT SHALL BE CONSIDERED INCIDENTAL TO PAY ITEM AR150530 "TRAFFIC MAINTENANCE".
- AT PROJECT COMPLETION, ALL BARRICADES SHALL BE REMOVED FROM THE AIRPORT PROPERTY AND SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.
- LOW PROFILE CONSTRUCTION BARRICADES:
 - SHALL BE MULTI-BARRIER MODEL No. AR-10X96, LO PRO MODEL No. AB96, NAC MODEL No. GD9670, OR APPROVED EQUAL.
 - SHALL HAVE AT LEAST TWO (2) OMNI-DIRECTIONAL LOW INTENSITY FLASHING RED LIGHT ATTACHED TO EACH BARRICADE. LAMPS SHALL ALTERNATE PER FAA AC 70/7460-1 AND IDOT REQUIREMENTS.
 - THE FINAL LOCATION FOR THE BARRICADES SHALL BE ESTABLISHED IN THE FIELD WITH CONCURRENCE FROM THE RESIDENT ENGINEER.
 - SHALL HAVE AT LEAST TWO (2) ORANGE OR RED FLAGS (FOR CLARITY, ORIENTATION IN DETAIL ABOVE SHOWN FOR GENERAL PURPOSE AND DOES NOT REFLECT ACTUAL FLAG PLACEMENT).
 - SHALL BE SECURED TO THE PAVEMENT BY FILLING WITH WATER OR SAND BAGS. SAND BAGS SHALL BE THE SAME COLOR AS THE BARRICADES.
 - BARRICADES SECURED BY WATER OR SAND SHALL BE CHECKED ON A DAILY BASIS FOR LEAKS.
 - SHALL BE POSITIONED END TO END OR INTERLOCKED WITH NO GAP.

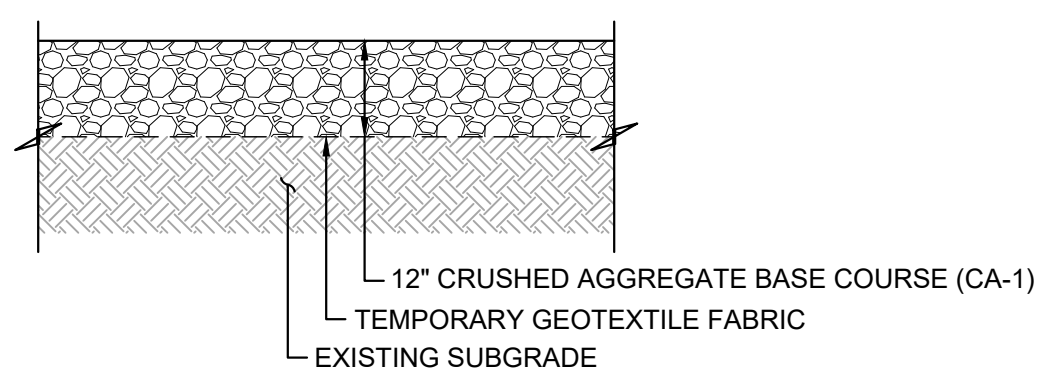
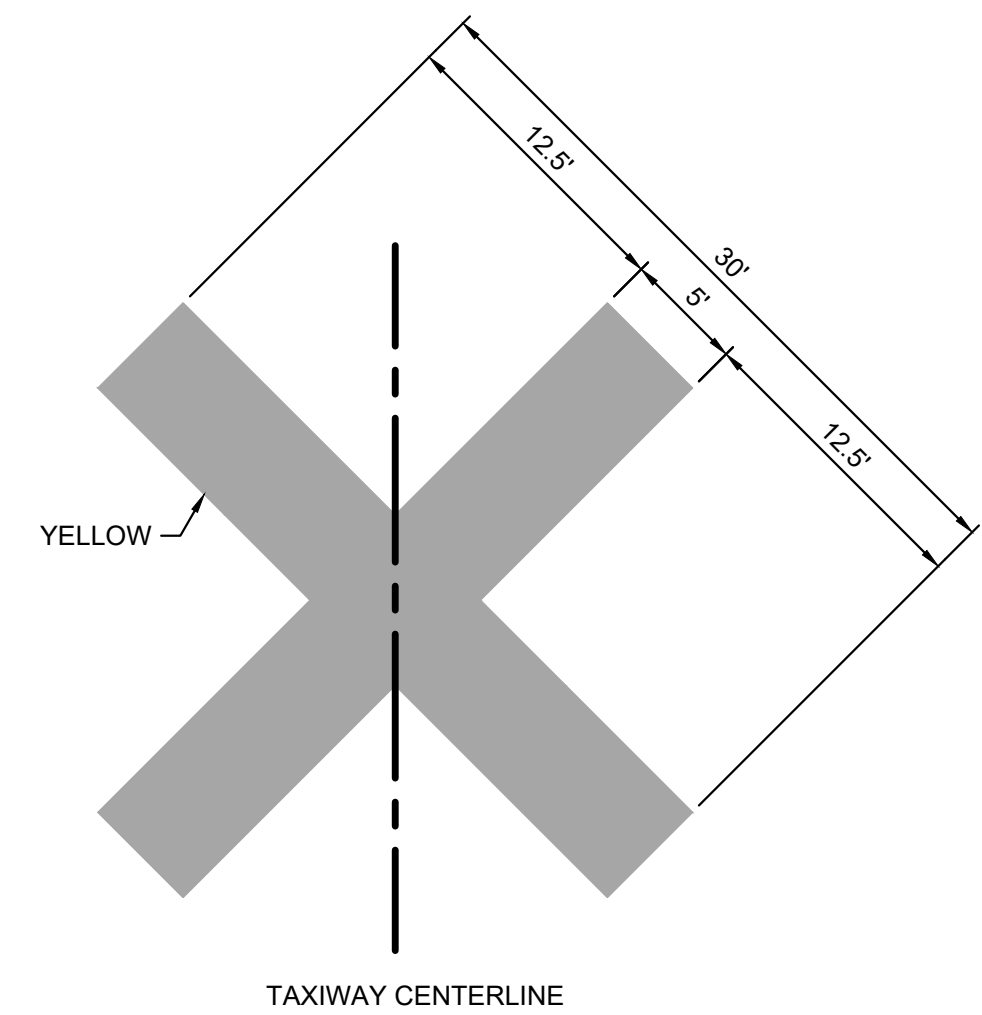


CONSTRUCTION ENTRANCE SIGN NOTES:

- CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING PROPER POSITIONING OF ALL SIGNS.
- NO SEPARATE PAYMENT WILL BE MADE FOR SUPPLYING, MAINTAINING, OR MOVING SIGNS BUT SHALL BE CONSIDERED INCIDENTAL TO ITEM AR150530, TRAFFIC MAINTENANCE.

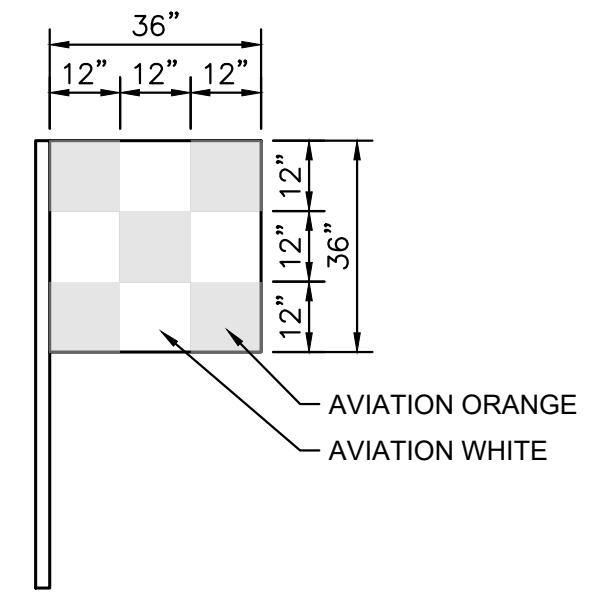
NOTES:

- TAXIWAY CLOSURE MARKERS SHALL BE CONSTRUCTED OF AN EASILY REMOVABLE MATERIAL, SUCH AS PLYWOOD OR FABRIC, AND HELD IN PLACE WITH SAND BAGS PAINTED YELLOW. TAXIWAY CLOSURE MARKERS SHALL BE YELLOW IN COLOR.
- THE CONTRACTOR SHALL PLACE TAXIWAY CLOSURE MARKERS ON THE CENTERLINE OF THE TAXIWAY TO BE CLOSED AS SHOWN ON PLANS OR AS DIRECTED BY RESIDENT ENGINEER.
- TAXIWAY CLOSURE MARKERS SHALL BE CONSIDERED INCIDENTAL TO ITEM AR150530, TRAFFIC MAINTENANCE.



CONSTRUCTION ENTRANCE NOTES:

- TOPSOIL SHALL BE STRIPPED 12" AND STOCKPILED ON SITE AT LOCATION APPROVED BY THE RESIDENT ENGINEER.
- TIRES ON CONSTRUCTION EQUIPMENT SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTERING PAVED AREAS AND AREAS STABILIZED WITH CRUSHED STONE.
- CONSTRUCTION ENTRANCE SHALL BE MAINTAINED AND GRADED TO PREVENT RUTTING AND ACCUMULATION OF SEDIMENT ON PAVED AREAS. PERIODIC TOP DRESSING WITH ADDITIONAL STONE MAY BE REQUIRED AS CONDITIONS DEMAND.
- TEMPORARY SEDIMENT TRAPS SHALL BE UTILIZED TO PREVENT SEDIMENT FROM LEAVING THE CONSTRUCTION SITE.
- CONSTRUCTION ENTRANCE AND SITE RESTORATION SHALL BE PAID FOR UNDER PAY ITEM AR150540, "HAUL ROUTE".



VEHICLE AND EQUIPMENT FLAG NOTES:

- ALL CONSTRUCTION MECHANIZED EQUIPMENT AUTHORIZED WITHIN THE MOVEMENT AREA OR RELATED SAFETY AREAS SHALL BE MARKED WITH A 3'X3' ORANGE AND WHITE CHECKERED FLAG WITH EACH BOX BEING 1' SQUARE.
- THE FLAG SHALL BE LOCATED ON THE UPPERMOST PORTION OF THE VEHICLE/MOTORIZED EQUIPMENT, OR BE ESCORTED BY A VEHICLE SO EQUIPPED.
- VEHICLE AND EQUIPMENT FLAGS SHALL BE CONSIDERED INCIDENTAL AR150520, MOBILIZATION.

DATE: 11/22/2024	SCALE: AS NOTED	
DRAWN BY: JRH	CHECKED BY: JY	
REV.	DATE	DESCRIPTION
0	11/22/2024	ISSUED FOR BID

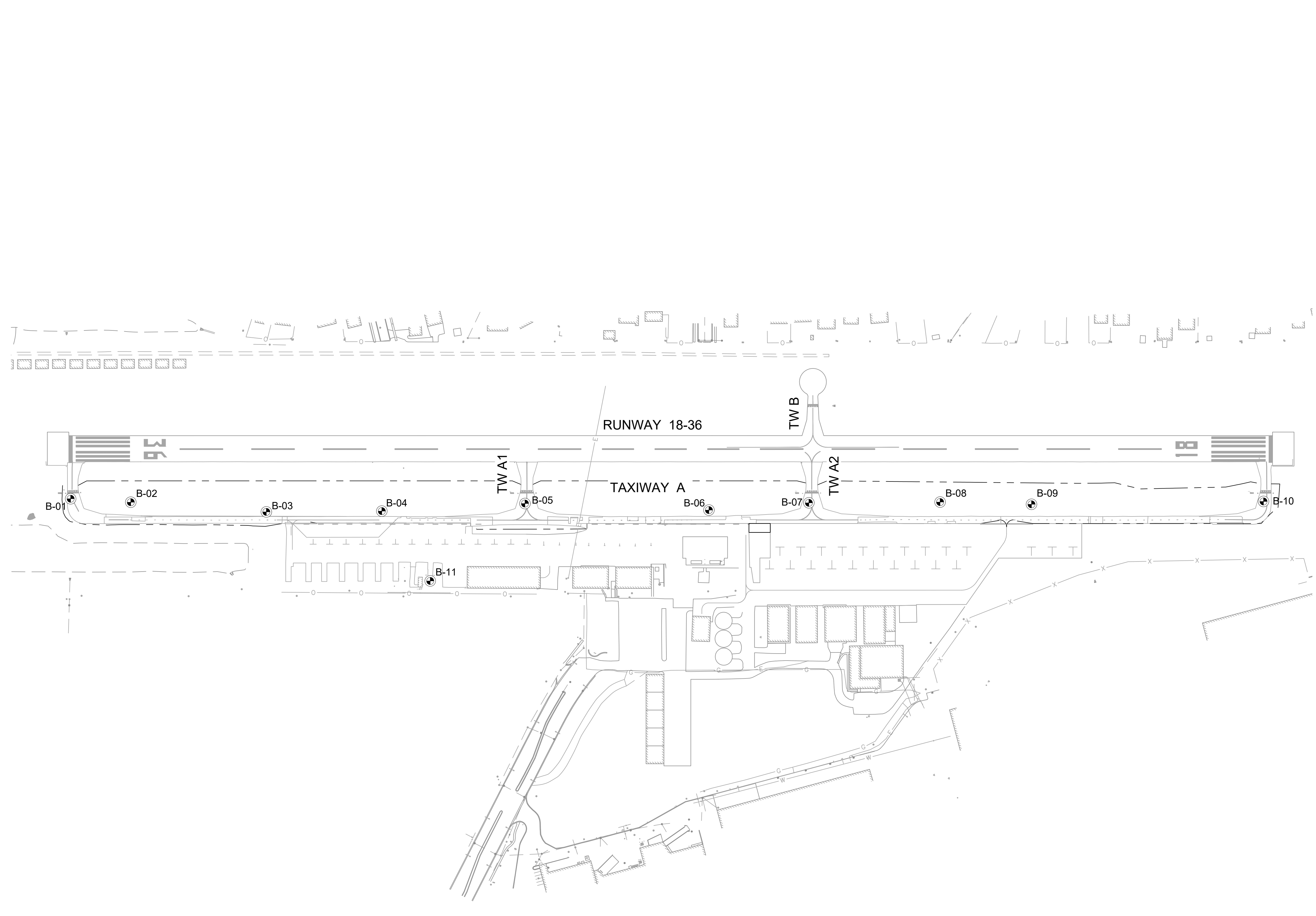
TITLE: CONSTRUCTION SAFETY AND PHASING DETAILS
PROJECT: CONSTRUCT REPLACEMENT PARALLEL TAXIWAY AND REPLACE AIRPORT ROTATING BEACON VILLAGE OF BOLINGBROOK BOLINGBROOK, WILL COUNTY, ILLINOIS



DRAWING NO. **PH-501**
 PROJECT NUMBER: 168001005



K:\GIS_Aviation\168001005 - 105_Construct_Parallel_Taxiway\Coord\Plans\168001005_GR_BoringLog.dwg - BoringLog.dwg
 11/19/2024 5:03 PM
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LEGEND

● B-XX BORING LOCATION

--- GRADING LIMITS

GENERAL SHEET NOTES

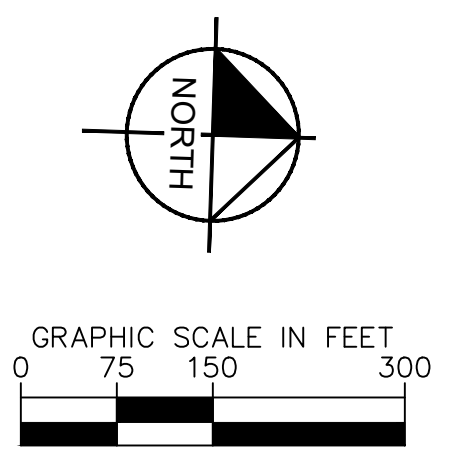
- REFER TO SHEETS GR-201 AND GR-202 FOR BORING LOGS.
- REFER TO SHEETS CT-101 AND CT-201 FOR PAVEMENT SECTION DETAILS.
- GEOTECHNICAL SUBSURFACE INVESTIGATION PERFORMED ON MARCH 12, 2024 BY:
 WANG ENGINEERING, INC., A TERRACON COMPANY
 1145 N MAIN ST.
 LOMBARD, ILLINOIS 60148

Kimley»Horn

4201 WINFIELD ROAD
 SUITE 600
 WARRENVILLE, IL 60555
 TEL (630) 487-5550



DATE: 11/22/2024	SCALE: 1" = 200'	
DRAWN BY: JRH	CHECKED BY: JY	
REV.	DATE	DESCRIPTION
0	11/22/2024	ISSUED FOR BID



TITLE: BORING PLAN

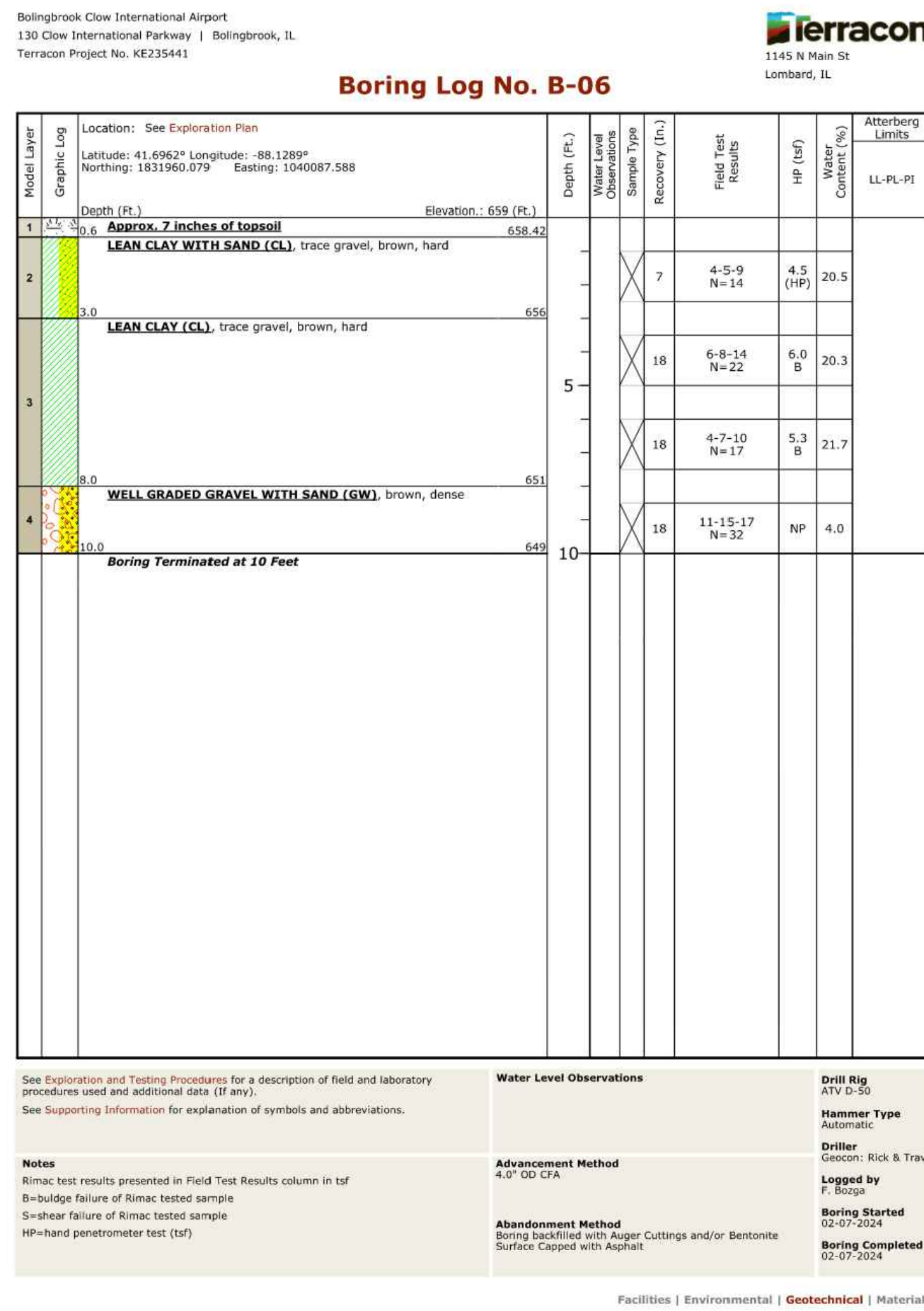
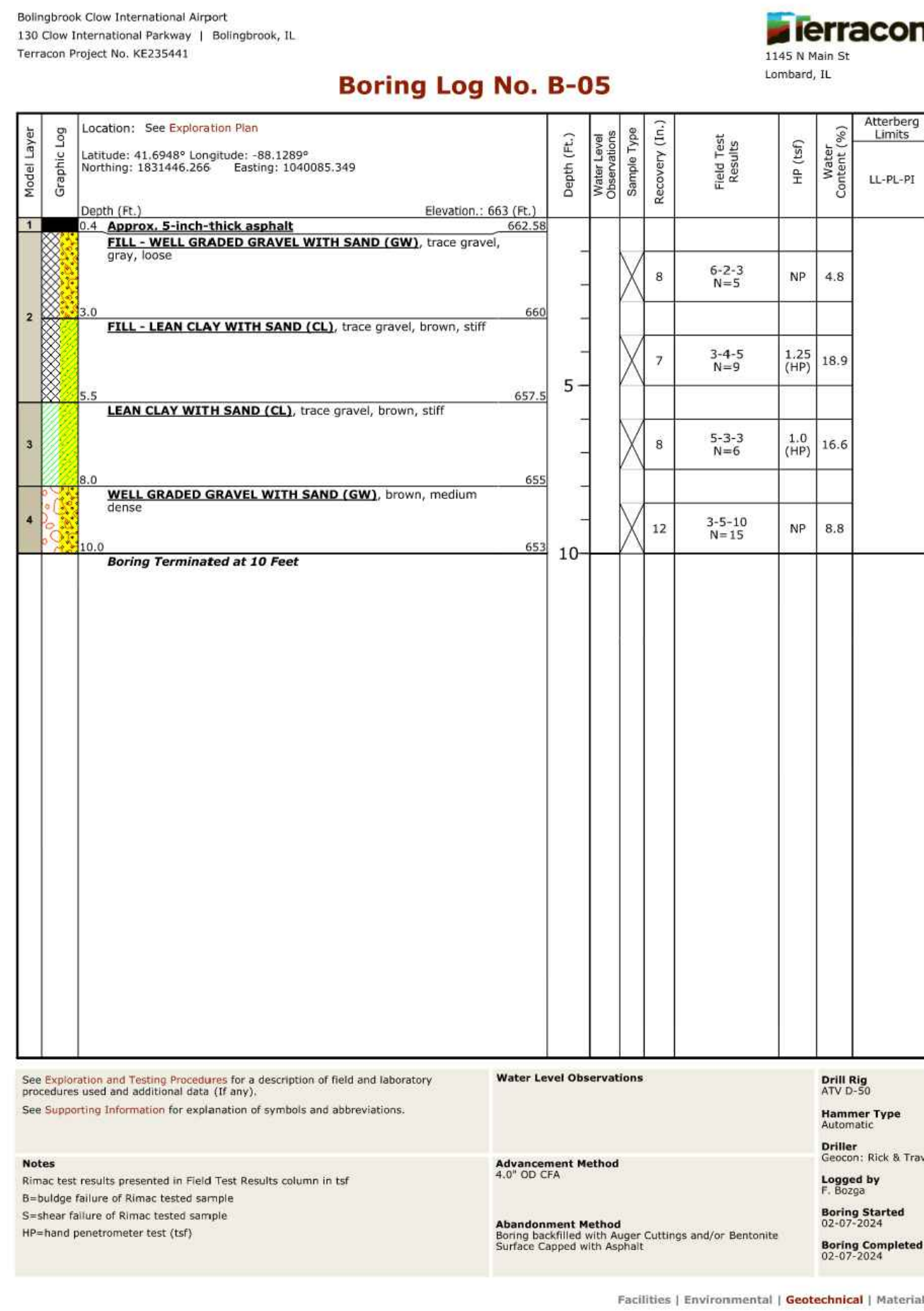
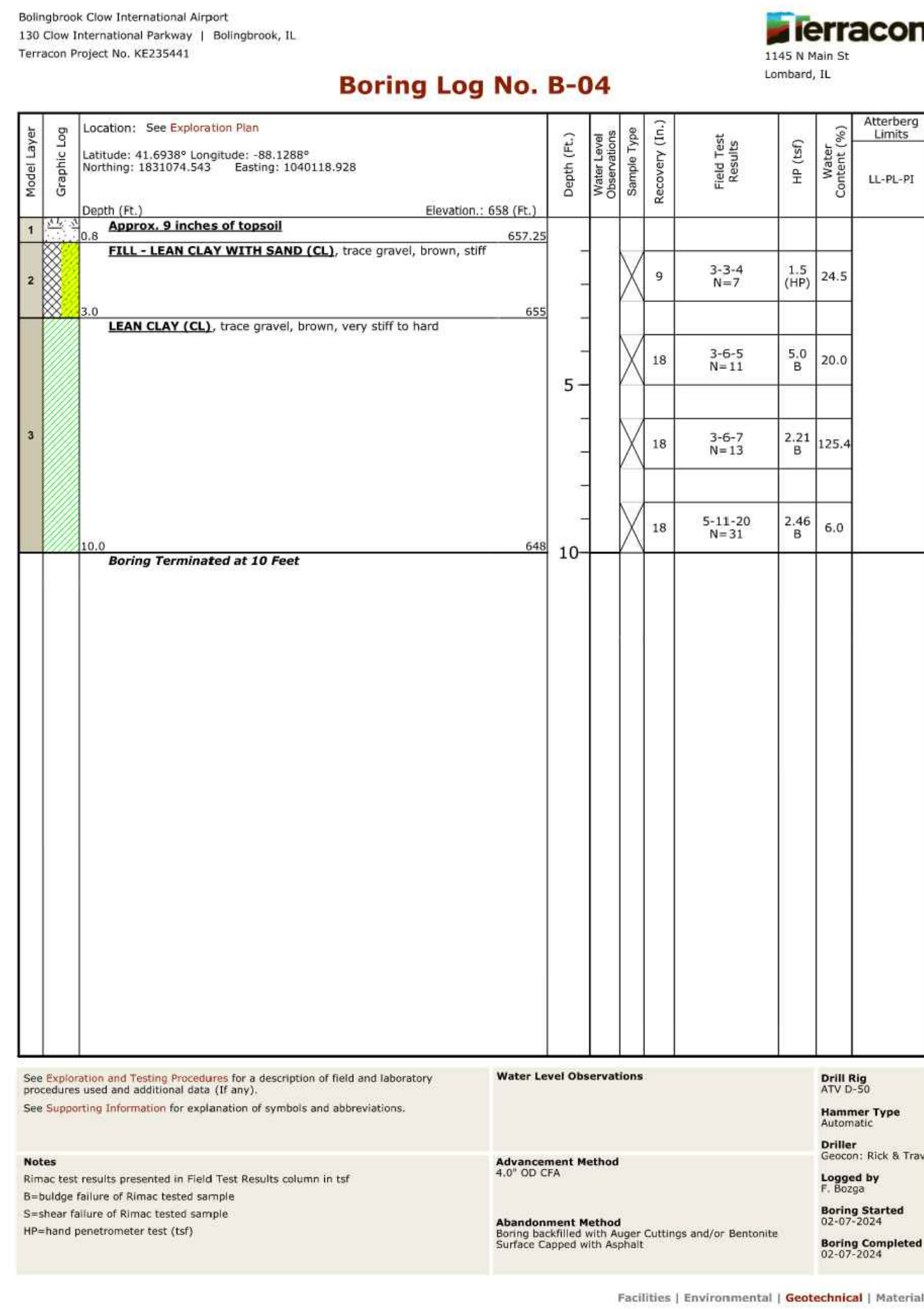
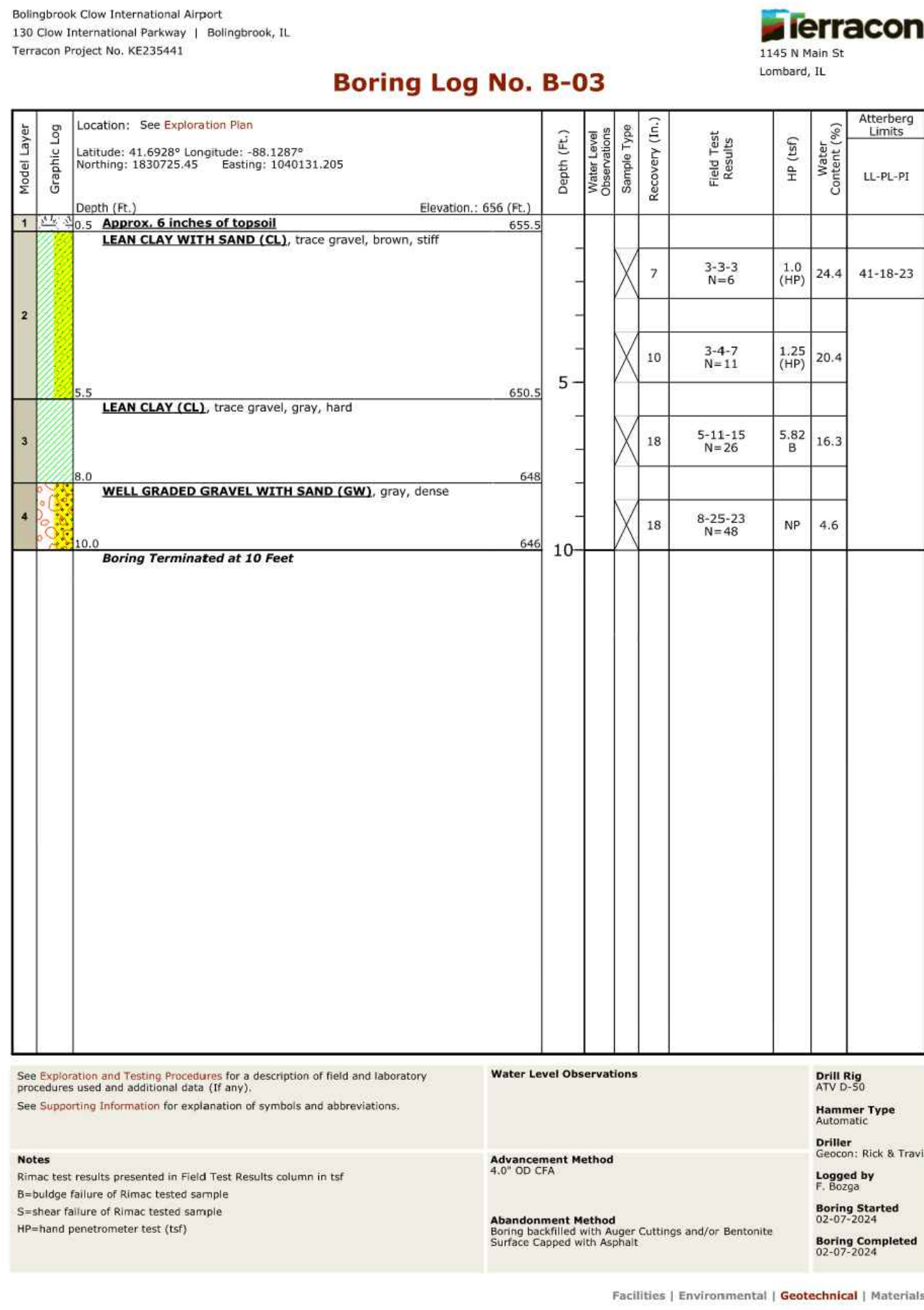
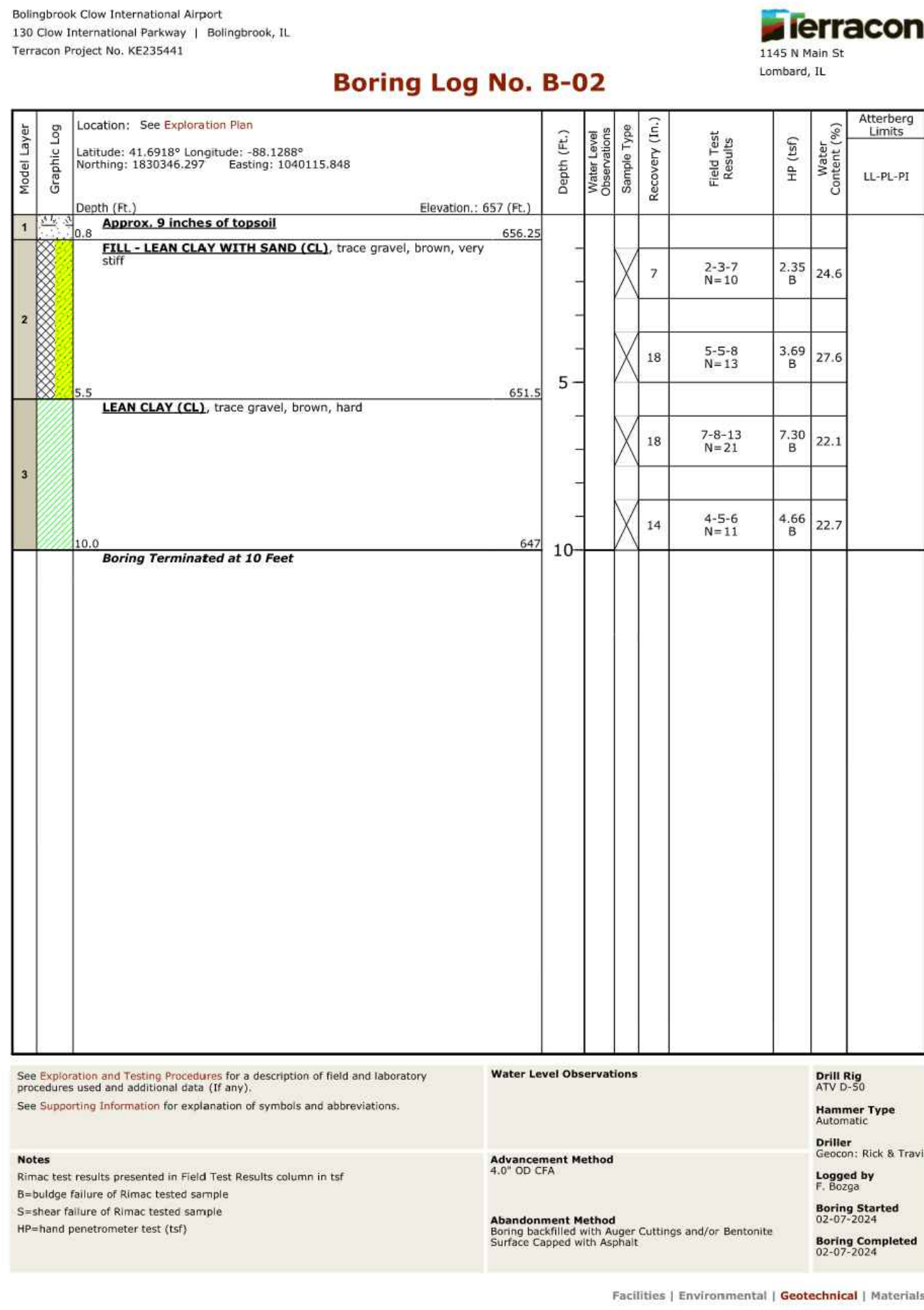
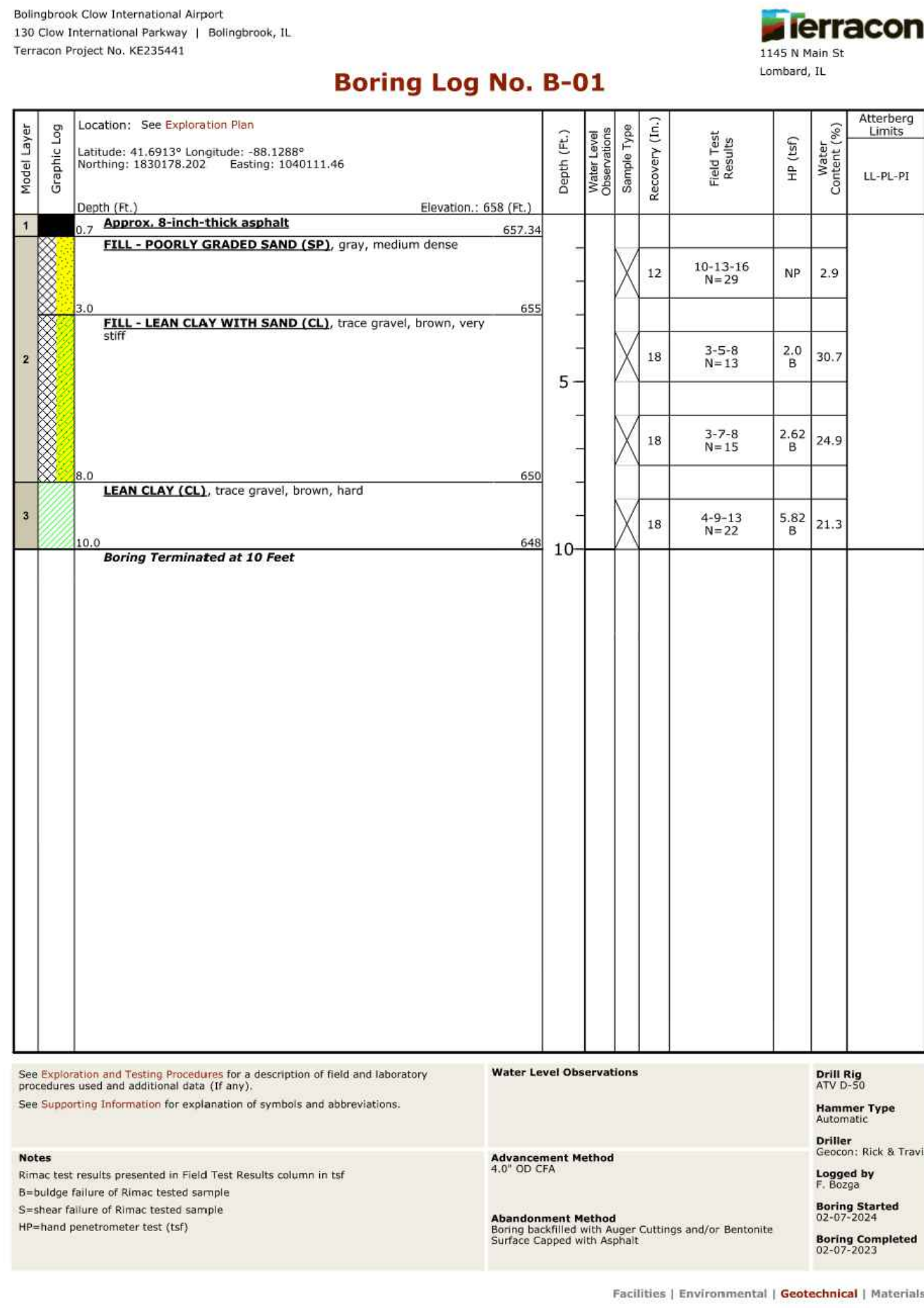
PROJECT: CONSTRUCT REPLACEMENT PARALLEL TAXIWAY AND REPLACE AIRPORT ROTATING BEACON VILLAGE OF BOLINGBROOK BOLINGBROOK, WILL COUNTY, ILLINOIS



DRAWING NO. **GR-101**

PROJECT NUMBER: 168001005

K:\GIS\Aviation\168001005 - 105 - Construct - Parallel Taxiway\Coord\Plots\168001005 - GR - Boring Log.dwg Boring Log.dwg Luke Burlingame 11/19/2024 5:05 PM
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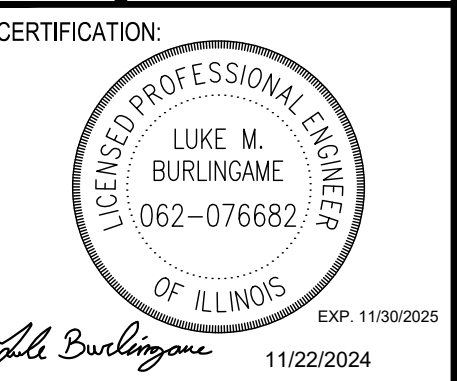
4201 WINFIELD ROAD
SUITE 600
WARRENVILLE, IL 60555
TEL (630) 487-5550



DATE: 11/22/2024
SCALE: NTS
DRAWN BY: JRH
CHECKED BY: JY

REV. DATE DESCRIPTION
0 11/22/2024 ISSUED FOR BID

TITLE: BORING LOGS (B-01 TO B06)
PROJECT: CONSTRUCT REPLACEMENT PARALLEL TAXIWAY AND REPLACE AIRPORT ROTATING BEACON VILLAGE OF BOLINGBROOK BOLINGBROOK, WILL COUNTY, ILLINOIS



DRAWING NO. GR-201

PROJECT NUMBER: 168001005

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Bolingbrook Clow International Airport
130 Clow International Parkway | Bolingbrook, IL
Terracon Project No. KE235441



Boring Log No. B-07

Model Layer	Graphic Log	Location: See Exploration Plan Latitude: 41.6970° Longitude: -88.1290° Northing: 1832236.305 Easting: 1040058.657	Depth (Ft.)	Water Level Observations	Recovery (In.)	Field Test Results	HP (tsf)	Water Content (%)	Atterberg Limits
1	0.5	Approx. 6-inch-thick asphalt	665.5						
		FILL - POORLY GRADED SAND (SP), trace gravel, gray, loose			10	10-4-5 N=9	NP	8.4	
2	3.0	FILL - LEAN CLAY WITH SAND (CL), trace gravel, dark gray, very stiff	663		7	3-6-6 N=12	2.25 (HP)	22.6	
		LEAN CLAY (CL), trace gravel, brown, hard			0	3-5-6 N=11			
3	8.0	LEAN CLAY (CL), trace gravel, brown, hard	658		18	5-6-8 N=14	6.10 (HP)	21.2	
		Boring Terminated at 10 Feet	652						

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (if any).
See Supporting Information for explanation of symbols and abbreviations.

Notes
Rimac test results presented in Field Test Results column in tsf
B=bulge failure of Rimac tested sample
S=shear failure of Rimac tested sample
HP=hand penetrometer test (tsf)

Water Level Observations
4.0" OD CFA

Drill Rig
ATV D-50
Hammer Type
Automatic
Driller
Gecon: Rick & Travis
Logged by
F. Scopa
Boring Started
02-07-2024
Boring Completed
02-07-2024

Facilities | Environmental | Geotechnical | Materials

Bolingbrook Clow International Airport
130 Clow International Parkway | Bolingbrook, IL
Terracon Project No. KE235441



Boring Log No. B-08

Model Layer	Graphic Log	Location: See Exploration Plan Latitude: 41.6980° Longitude: -88.1290° Northing: 1832604.365 Easting: 1040045.071	Depth (Ft.)	Water Level Observations	Recovery (In.)	Field Test Results	HP (tsf)	Water Content (%)	Atterberg Limits
1	2.5	Approx. 7 inches of topsoil	666.42						
		FILL - LEAN CLAY WITH SAND (CL), trace gravel, brown, very stiff			4	6-4-5 N=9	2.5 (HP)	28.6	
2	3.0	LEAN CLAY (CL), trace gravel, brown, hard	664		18	6-7-8 N=15	5.25 B	20.2	
		LEAN CLAY (CL), trace gravel, brown, hard			18	4-6-11 N=17	5.0 B	20.9	
3	10.0	Boring Terminated at 10 Feet	652						

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (if any).
See Supporting Information for explanation of symbols and abbreviations.

Notes
Rimac test results presented in Field Test Results column in tsf
B=bulge failure of Rimac tested sample
S=shear failure of Rimac tested sample
HP=hand penetrometer test (tsf)

Water Level Observations
4.0" OD CFA

Drill Rig
ATV D-50
Hammer Type
Automatic
Driller
Gecon: Rick & Travis
Logged by
F. Scopa
Boring Started
02-07-2024
Boring Completed
02-07-2024

Facilities | Environmental | Geotechnical | Materials

Bolingbrook Clow International Airport
130 Clow International Parkway | Bolingbrook, IL
Terracon Project No. KE235441



Boring Log No. B-09

Model Layer	Graphic Log	Location: See Exploration Plan Latitude: 41.6987° Longitude: -88.1290° Northing: 1832859.528 Easting: 1040043.402	Depth (Ft.)	Water Level Observations	Recovery (In.)	Field Test Results	HP (tsf)	Water Content (%)	Atterberg Limits
1	2.5	Approx. 8 inches of topsoil	668.5						
		FILL - LEAN CLAY WITH SAND (CL), trace gravel, brown, stiff			3	6-5-4 N=9	1.5 (HP)	28.7	
2	3.0	LEAN CLAY (CL), trace gravel, brown, hard	666		6	2-3-6 N=9	4.25 (HP)	17.9	
		LEAN CLAY (CL), trace gravel, brown, hard			18	5-8-11 N=19	5.23 B	19.2	
3	10.0	Boring Terminated at 10 Feet	652						

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (if any).
See Supporting Information for explanation of symbols and abbreviations.

Notes
Rimac test results presented in Field Test Results column in tsf
B=bulge failure of Rimac tested sample
S=shear failure of Rimac tested sample
HP=hand penetrometer test (tsf)

Water Level Observations
3.0 feet white drilling
5.5 feet at completion of drilling

Drill Rig
ATV D-50
Hammer Type
Automatic
Driller
Gecon: Rick & Travis
Logged by
F. Scopa
Boring Started
02-07-2024
Boring Completed
02-07-2024

Facilities | Environmental | Geotechnical | Materials

Bolingbrook Clow International Airport
130 Clow International Parkway | Bolingbrook, IL
Terracon Project No. KE235441



Boring Log No. B-10

Model Layer	Graphic Log	Location: See Exploration Plan Latitude: 41.7005° Longitude: -88.1291° Northing: 1833506.56 Easting: 1040015.232	Depth (Ft.)	Water Level Observations	Recovery (In.)	Field Test Results	HP (tsf)	Water Content (%)	Atterberg Limits
1	0.5	Approx. 7.5-inch-thick asphalt	674.38						
		FILL - POORLY GRADED SAND (SP), trace gravel, gray, medium dense			13	9-8-7 N=15	NP	8.7	
2	3.0	FILL - WELL GRADED GRAVEL (GW), brown, medium dense	672		6	2-3-8 N=11	NP	15.0	
		LEAN CLAY (CL), trace gravel, brown, hard to very stiff			18	4-7-11 N=18	5.0 B	18.5	
3	5.5	LEAN CLAY (CL), trace gravel, brown, hard to very stiff	669.5		18	3-5-7 N=12	3.2 B	20.0	
		Boring Terminated at 10 Feet	665						

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (if any).
See Supporting Information for explanation of symbols and abbreviations.

Notes
Rimac test results presented in Field Test Results column in tsf
B=bulge failure of Rimac tested sample
S=shear failure of Rimac tested sample
HP=hand penetrometer test (tsf)

Water Level Observations
3.0 feet white drilling
5.0 feet at completion of drilling

Drill Rig
ATV D-50
Hammer Type
Automatic
Driller
Gecon: Rick & Travis
Logged by
F. Scopa
Boring Started
02-07-2024
Boring Completed
02-07-2024

Facilities | Environmental | Geotechnical | Materials

Bolingbrook Clow International Airport
130 Clow International Parkway | Bolingbrook, IL
Terracon Project No. KE235441



Boring Log No. B-11

Model Layer	Graphic Log	Location: See Exploration Plan Latitude: 41.6941° Longitude: -88.1281° Northing: 1831188.624 Easting: 1040309.563	Depth (Ft.)	Water Level Observations	Recovery (In.)	Field Test Results	HP (tsf)	Water Content (%)	Atterberg Limits
1	0.3	Approx. 3 inches of topsoil	661.79						
		FILL - LEAN CLAY WITH SAND (CL), trace gravel, brown, stiff			5	2-4-5 N=9	1.25 (HP)	30.9	
2	3.0	LEAN CLAY (CL), trace gravel, brown, very stiff	659		12	4-3-5 N=8	2.62 B	22.3	42-20-22
		WELL GRADED GRAVEL (GW), brown, dense			18	3-6-30 N=36	NP	15.5	
3	5.5	LEAN CLAY (CL), trace gravel, brown, hard to very stiff	656.5		18	3-4-7 N=11	2.0 B	19.0	
		Boring Terminated at 10 Feet	652						

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (if any).
See Supporting Information for explanation of symbols and abbreviations.

Notes
Rimac test results presented in Field Test Results column in tsf
B=bulge failure of Rimac tested sample
S=shear failure of Rimac tested sample
HP=hand penetrometer test (tsf)

Water Level Observations
7.0 feet white drilling
8.0 feet at completion of drilling

Drill Rig
ATV D-50
Hammer Type
Automatic
Driller
Gecon: Rick & Travis
Logged by
F. Scopa
Boring Started
02-07-2024
Boring Completed
02-07-2024

Facilities | Environmental | Geotechnical | Materials



4201 WINFIELD ROAD
SUITE 600
WARRENVILLE, IL 60555
TEL (630) 487-5550



DATE: 11/22/2024
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REV. DATE DESCRIPTION
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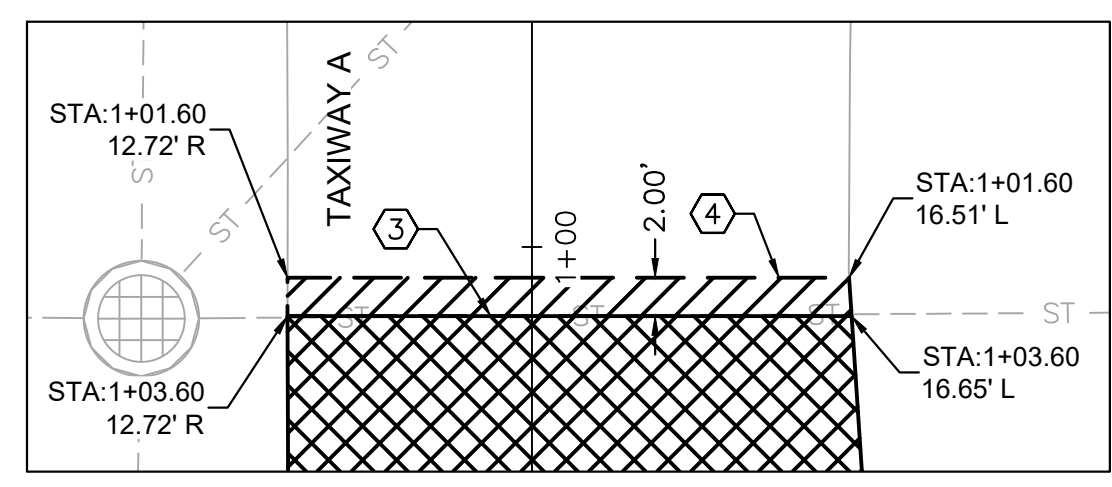
TITLE: BORING LOGS (B-07 TO B-11)
PROJECT: CONSTRUCT REPLACEMENT PARALLEL TAXIWAY AND REPLACE AIRPORT ROTATING BEACON VILLAGE OF BOLINGBROOK BOLINGBROOK, WILL COUNTY, ILLINOIS



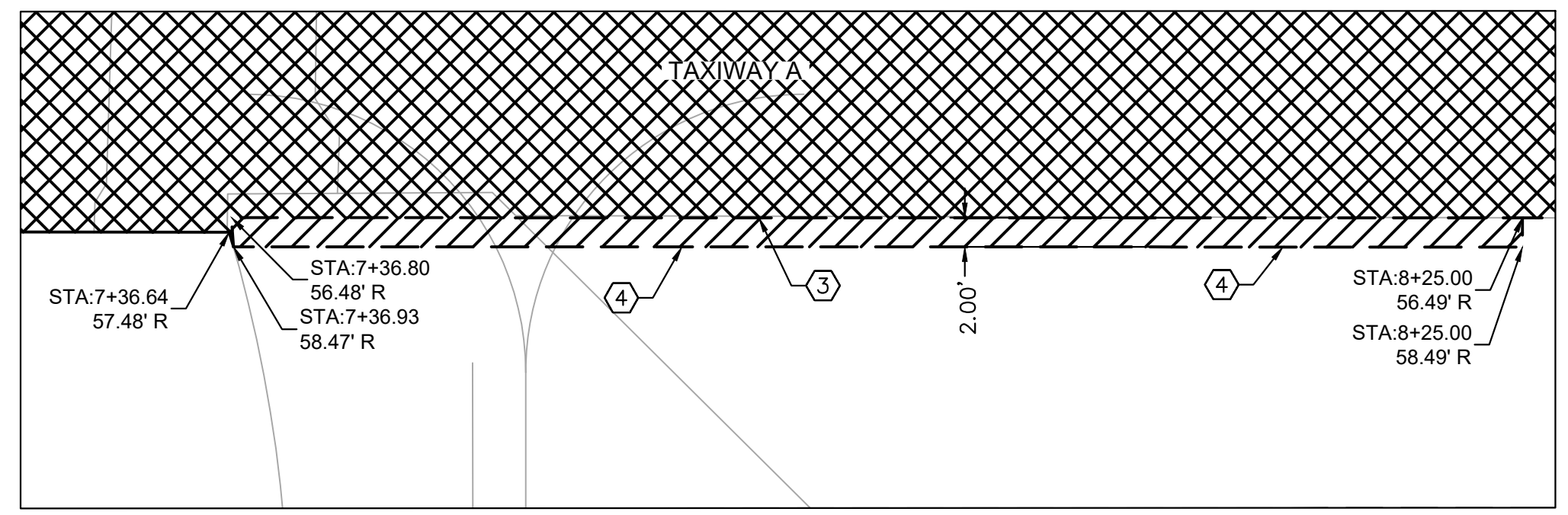
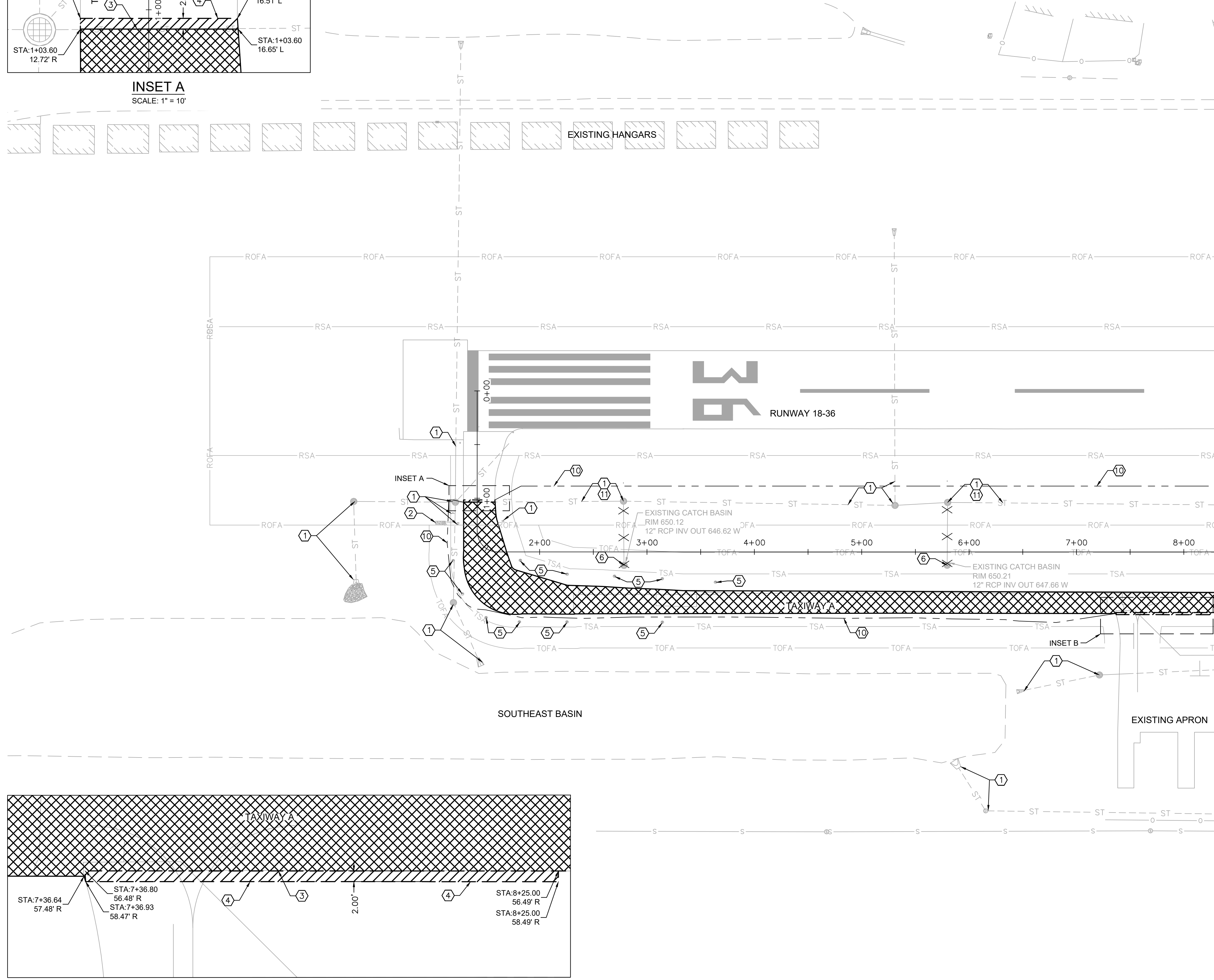
DRAWING NO. GR-202
PROJECT NUMBER: 168001005

PRINT SHEET IN COLOR

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INSET A
SCALE: 1" = 10'

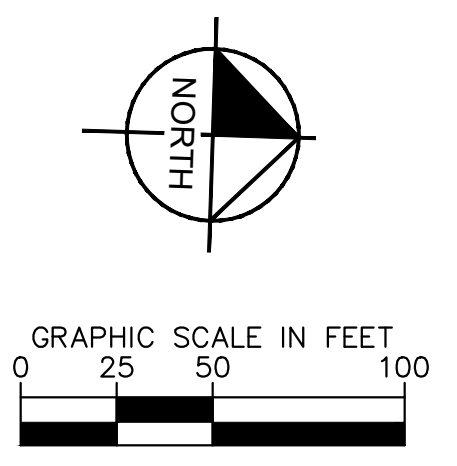
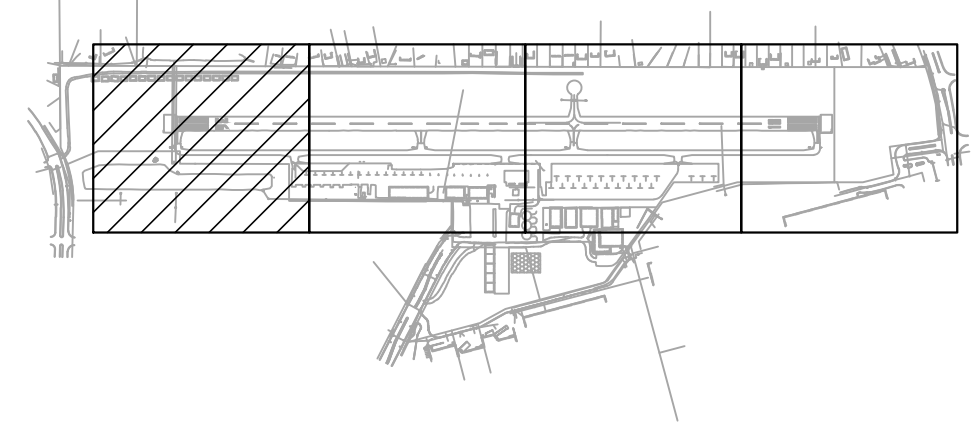


INSET B
SCALE: 1" = 10'

- LEGEND**
- PARTIAL DEPTH BITUMINOUS PAVEMENT MILLING (1.5"-3" APPROX)
 - FULL DEPTH PAVEMENT REMOVAL (5" APPROX)
 - BITUMINOUS PAVEMENT SAWING
 - EXISTING STORM SEWER PIPE
 - EXISTING STORM SEWER STRUCTURE
 - EXISTING RETROREFLECTIVE MARKER
 - UTILITY DEMOLITION

- CONSTRUCTION NOTES**
- 1 PROTECT EXISTING STRUCTURE OR UTILITY
 - 2 PROTECT EXISTING AIRFIELD SIGNS
 - 3 FULL DEPTH BITUMINOUS PAVEMENT SAWING (DEPTH VARIES) (INCIDENTAL TO AR401900)
 - 4 PARTIAL DEPTH PAVEMENT SAWING (1.5"-3") (INCIDENTAL TO AR401900)
 - 5 REMOVE AND SALVAGE RETROREFLECTIVE MARKER, RETURN TO OWNER (AR125912)
 - 6 REMOVE EXISTING STRUCTURE, BACKFILL AND COMPACT PER ITEM 152 (AR751906)
 - 7 REMOVE EXISTING STRUCTURE (AR751906)
 - 8 ADJUST EXISTING DUCTBANK MARKER (AR110949), SEE GRADING AND DRAINAGE SERIES
 - 9 ADJUST STRUCTURE PER STRUCTURE ADJUSTMENT TABLE ON SHEET CG-201 (AR751940)
 - 10 GRADING LIMITS, SEE SHEETS CG-101 THROUGH CG-104
 - 11 CONSTRUCT BULKHEAD AFTER PIPE REMOVAL - INCIDENTAL TO ITEM AR701900

- GENERAL NOTES**
1. REFER TO GEOMETRIC LAYOUT ON SHEET GL-101 THROUGH GL-104 FOR PROPOSED PAVING DETAILS.
 2. REFER TO TYPICAL SECTIONS ON SHEET CT-201 AND CT-202 FOR PAVEMENT STRUCTURAL SECTIONS.
 3. INFORMATION SHOWN HEREIN IS REPRESENTATIVE AND HAS BEEN USED BY THE ENGINEER AS A BASIS OF DESIGN. THE CONTRACTOR SHALL VERIFY AND MATCH EXISTING ELEVATIONS AND GRADES WHERE APPLICABLE AND NOTIFY THE ENGINEER IMMEDIATELY OF ANY DISCREPANCIES BETWEEN THE INFORMATION SHOWN HEREIN AND THAT FOUND IN THE FIELD.
 4. THE CONTRACTOR SHALL LOCATE, FLAG, AND PROTECT ALL EXISTING FACILITIES, UNDERGROUND UTILITIES, STORM SEWER PIPES AND STRUCTURES. DAMAGE TO ANY INFRASTRUCTURE ON OR OFF AIRPORT PROPERTY AS DETERMINED BY THE ENGINEER SHALL BE IMMEDIATELY REPAIRED OR REPLACED BY THE CONTRACTOR TO THE OWNER'S APPROVAL AT NO ADDITIONAL COST TO THE CONTRACT.
 5. SURFACE DAMAGE OR CRACKING OF EXISTING BITUMINOUS/CONCRETE PAVEMENTS TO REMAIN OR BUILDING FOUNDATIONS CAUSED BY THE CONTRACTOR AS DETERMINED BY THE ENGINEER SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE CONTRACT.



MATCH LINE STA. 207+00.00 - SEE SHEET CD-102



4201 WINFIELD ROAD
SUITE 600
WARRENVILLE, IL 60555
TEL (630) 487-5550



DATE: 11/22/2024	SCALE: 1" = 50'	
DRAWN BY: MPM	CHECKED BY: JY	
REV.	DATE	DESCRIPTION
0	11/22/2024	ISSUED FOR BID

TITLE: DEMOLITION PLAN

PROJECT: CONSTRUCT REPLACEMENT PARALLEL TAXIWAY AND REPLACE AIRPORT ROTATING BEACON VILLAGE OF BOLINGBROOK, WILL COUNTY, ILLINOIS



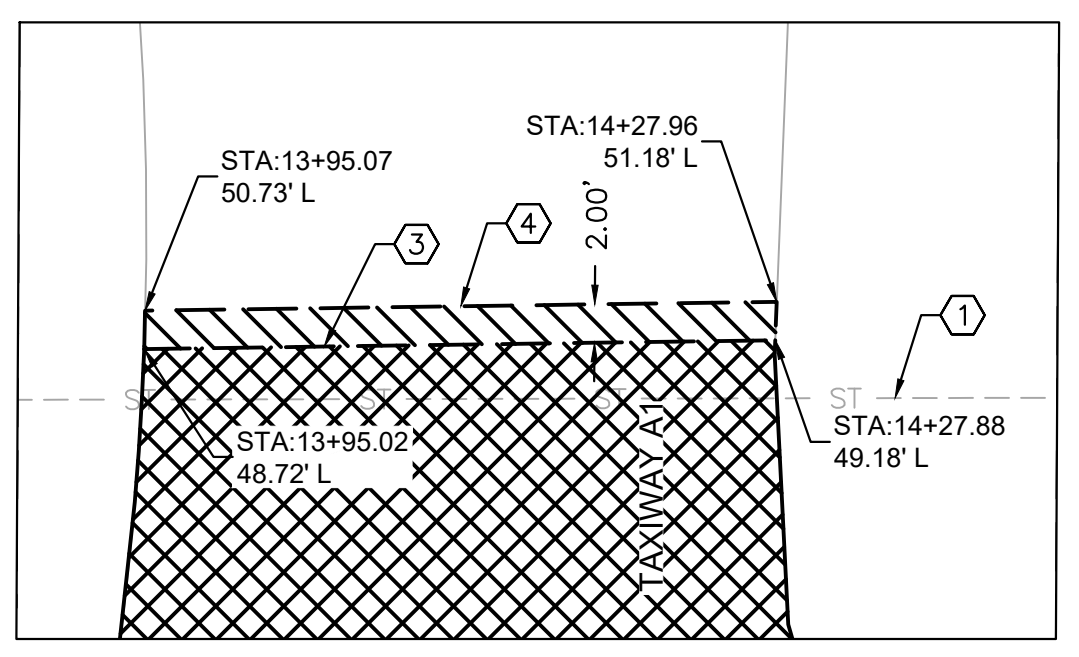
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PROJECT NUMBER:
168001005

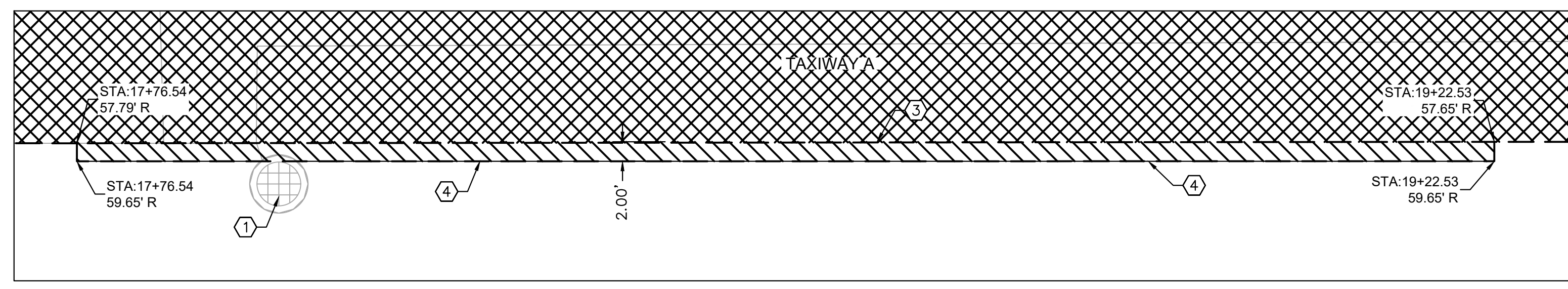
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MATCH LINE STA. 207+00.00 - SEE SHEET CD-101

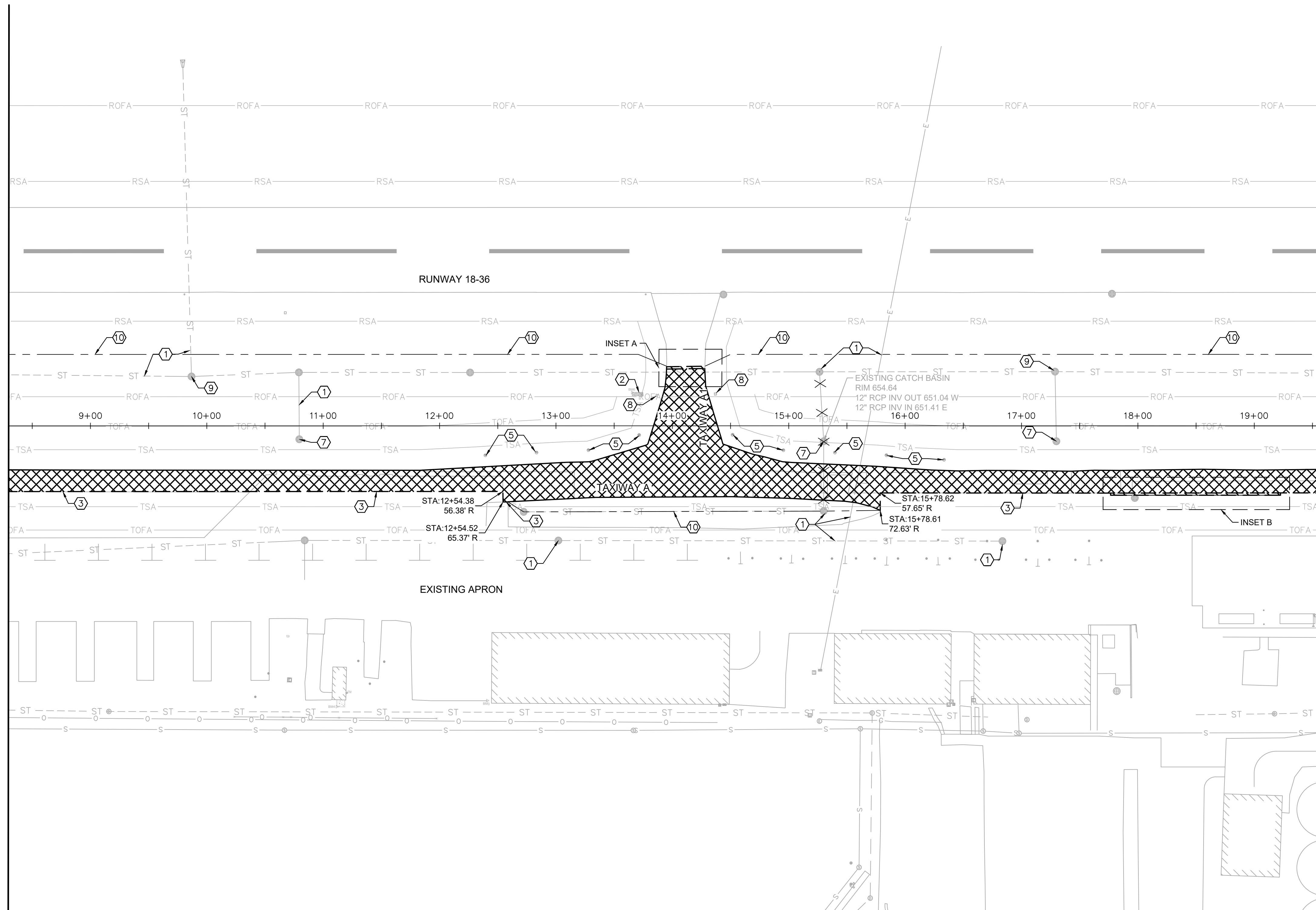
MATCH LINE STA. 218+25.00 - SEE SHEET CD-103



INSET A
SCALE: 1" = 10'



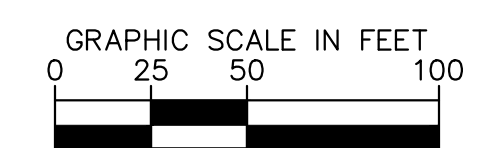
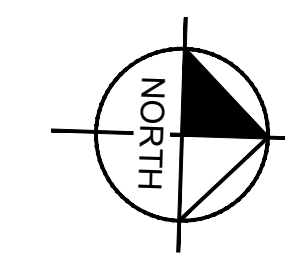
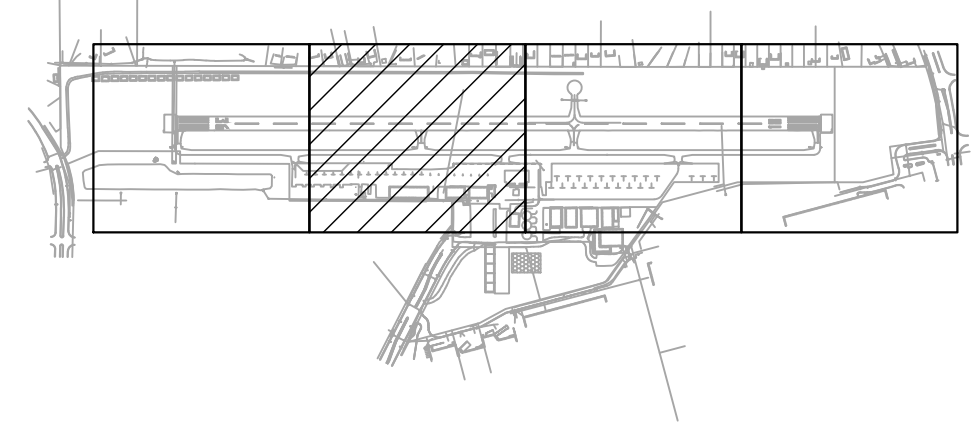
INSET B
SCALE: 1" = 10'



- LEGEND**
- PARTIAL DEPTH BITUMINOUS PAVEMENT MILLING (1.5'-3" APPROX)
 - FULL DEPTH PAVEMENT REMOVAL (5" APPROX)
 - BITUMINOUS PAVEMENT SAWING
 - EXISTING STORM SEWER PIPE
 - EXISTING STORM SEWER STRUCTURE
 - EXISTING RETROREFLECTIVE MARKER
 - UTILITY DEMOLITION

- CONSTRUCTION NOTES**
- 1 PROTECT EXISTING STRUCTURE OR UTILITY
 - 2 PROTECT EXISTING AIRFIELD SIGNS
 - 3 FULL DEPTH BITUMINOUS PAVEMENT SAWING (DEPTH VARIES) (INCIDENTAL TO AR401900)
 - 4 PARTIAL DEPTH PAVEMENT SAWING (1.5'-3") (INCIDENTAL TO AR401900)
 - 5 REMOVE AND SALVAGE RETROREFLECTIVE MARKER, RETURN TO OWNER (AR125912)
 - 6 REMOVE EXISTING STRUCTURE, BACKFILL AND COMPACT PER ITEM 152 (AR751906)
 - 7 REMOVE EXISTING STRUCTURE (AR751906)
 - 8 ADJUST EXISTING DUCTBANK MARKER (AR110949), SEE GRADING AND DRAINAGE SERIES
 - 9 ADJUST STRUCTURE PER STRUCTURE ADJUSTMENT TABLE ON SHEET CG-201 (AR751940)
 - 10 GRADING LIMITS, SEE SHEETS CG-101 THROUGH CG-104

- GENERAL NOTES**
1. REFER TO GEOMETRIC LAYOUT ON SHEET GL-101 THROUGH GL-104 FOR PROPOSED PAVING DETAILS.
 2. REFER TO TYPICAL SECTIONS ON SHEET CT-201 AND CT-202 FOR PAVEMENT STRUCTURAL SECTIONS.
 3. INFORMATION SHOWN HEREIN IS REPRESENTATIVE AND HAS BEEN USED BY THE ENGINEER AS A BASIS OF DESIGN. THE CONTRACTOR SHALL VERIFY AND MATCH EXISTING ELEVATIONS AND GRADES WHERE APPLICABLE AND NOTIFY THE ENGINEER IMMEDIATELY OF ANY DISCREPANCIES BETWEEN THE INFORMATION SHOWN HEREIN AND THAT FOUND IN THE FIELD.
 4. THE CONTRACTOR SHALL LOCATE, FLAG, AND PROTECT ALL EXISTING FACILITIES, UNDERGROUND UTILITIES, STORM SEWER PIPES AND STRUCTURES. DAMAGE TO ANY INFRASTRUCTURE ON OR OFF AIRPORT PROPERTY AS DETERMINED BY THE ENGINEER SHALL BE IMMEDIATELY REPAIRED OR REPLACED BY THE CONTRACTOR TO THE OWNER'S APPROVAL AT NO ADDITIONAL COST TO THE CONTRACT.
 5. SURFACE DAMAGE OR CRACKING OF EXISTING BITUMINOUS/CONCRETE PAVEMENTS TO REMAIN OR BUILDING FOUNDATIONS CAUSED BY THE CONTRACTOR AS DETERMINED BY THE ENGINEER SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE CONTRACT.

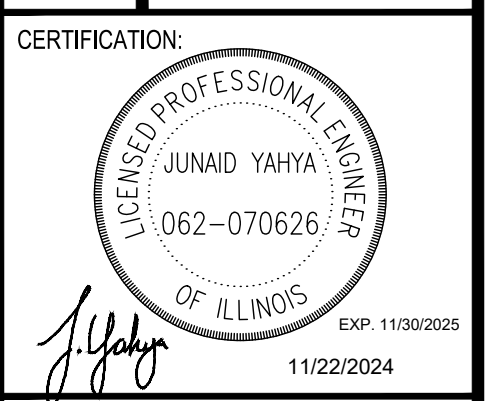


4201 WINFIELD ROAD
SUITE 600
WARRENVILLE, IL 60555
TEL (630) 487-5550



DATE:	SCALE:	
11/22/2024	1" = 50'	
DRAWN BY:	CHECKED BY:	
MPM	JY	
REV.	DATE	DESCRIPTION
0	11/22/2024	ISSUED FOR BID

TITLE: DEMOLITION PLAN
PROJECT: CONSTRUCT REPLACEMENT PARALLEL TAXIWAY AND REPLACE AIRPORT ROTATING BEACON VILLAGE OF BOLINGBROOK BOLINGBROOK, WILL COUNTY, ILLINOIS



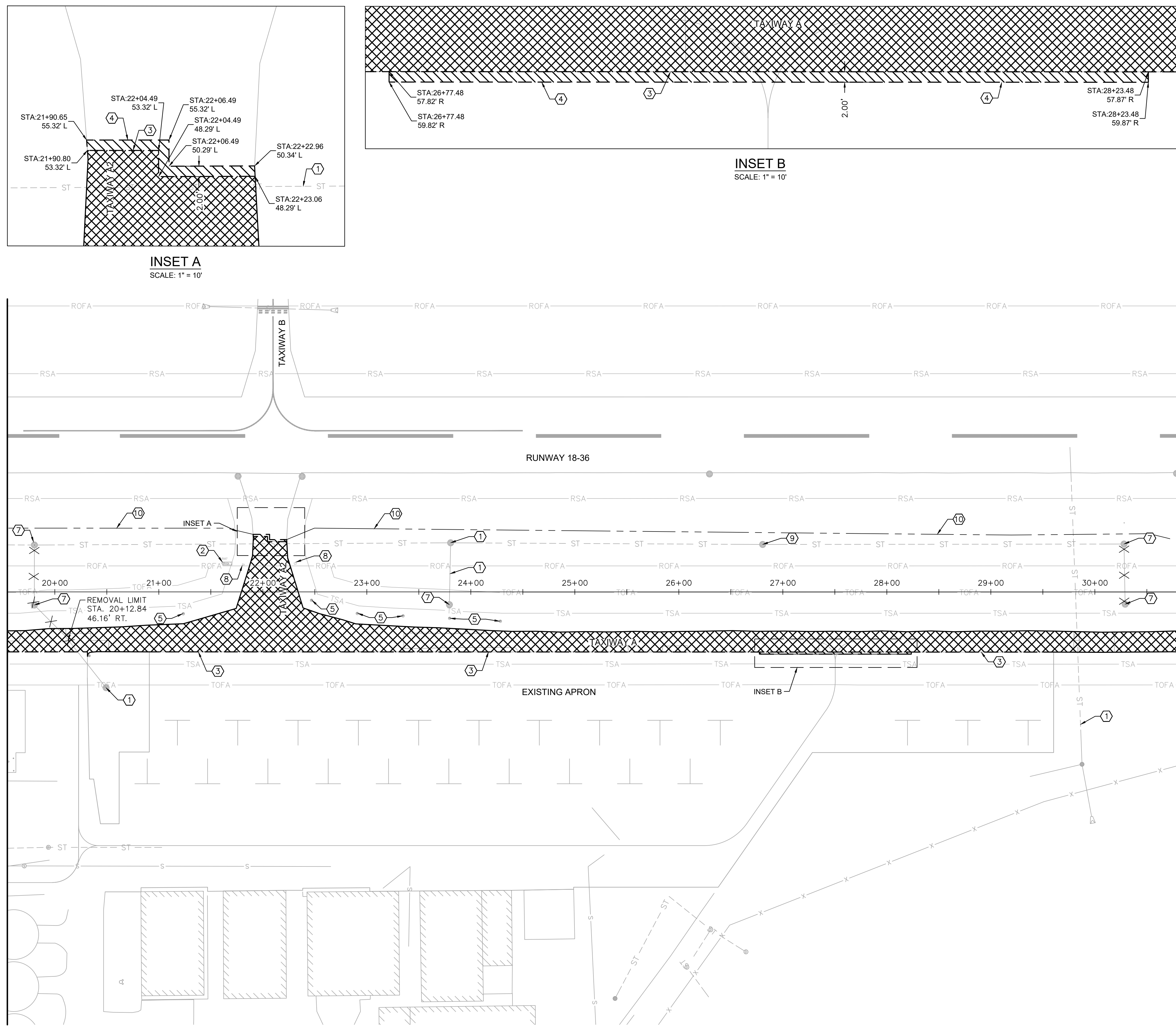
DRAWING NO. **CD-102**

PROJECT NUMBER: 168001005

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 THIS DRAWING IS UNLESS OTHERWISE SPECIFICALLY NOTED, THE PROPERTY OF KIMLEY-HORN AND ASSOCIATES, INC. NO PART OF THIS RECORD MAY BE DISCLOSED TO PERSONS WITHOUT A "NEED TO KNOW", AS DIRECTED IN 49 CFR PART 1520, EXCEPT WITH THE WRITTEN PERMISSION OF THE ADMINISTRATOR, THE TRANSPORTATION SECURITY ADMINISTRATION OR THE SECRETARY OF TRANSPORTATION. UNAUTHORIZED RELEASE MAY RESULT IN CIVIL PENALTY OR OTHER ACTION. FOR US GOVERNMENT AGENCIES, PUBLIC DISCLOSURE IS GOVERNED BY 5 U.S.C. 552 AND 49 CFR PART 1520.

MATCH LINE STA. 218+25.00 - SEE SHEET CD-102

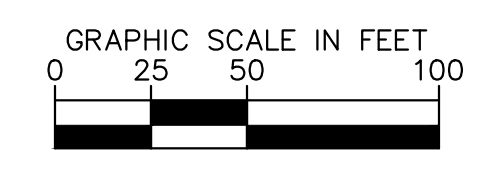
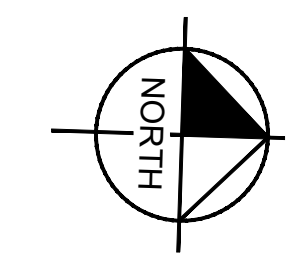
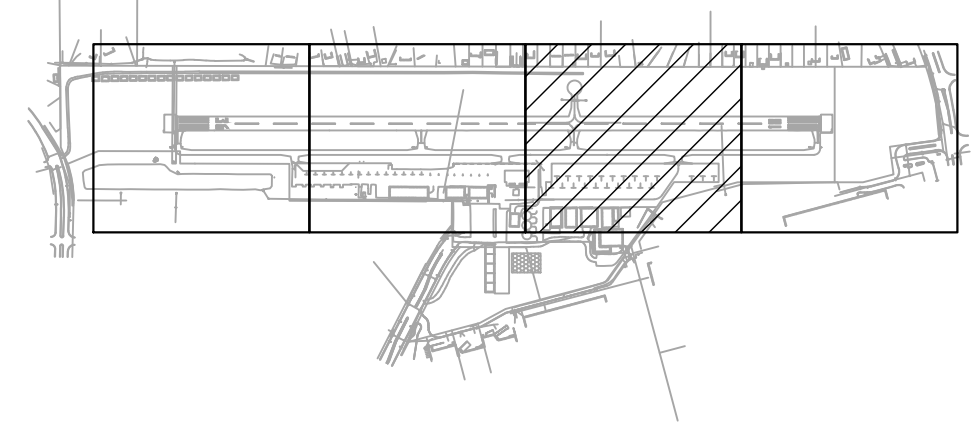
MATCH LINE STA. 229+50.00 - SEE SHEET CD-104



- ### LEGEND
- PARTIAL DEPTH BITUMINOUS PAVEMENT MILLING (1.5'-3" APPROX)
 - FULL DEPTH PAVEMENT REMOVAL (5" APPROX)
 - BITUMINOUS PAVEMENT SAWING
 - EXISTING STORM SEWER PIPE
 - EXISTING STORM SEWER STRUCTURE
 - EXISTING RETROREFLECTIVE MARKER
 - UTILITY DEMOLITION

- ### CONSTRUCTION NOTES
- 1 PROTECT EXISTING STRUCTURE OR UTILITY
 - 2 PROTECT EXISTING AIRFIELD SIGNS
 - 3 FULL DEPTH BITUMINOUS PAVEMENT SAWING (DEPTH VARIES) (INCIDENTAL TO AR401900)
 - 4 PARTIAL DEPTH PAVEMENT SAWING (1.5'-3") (INCIDENTAL TO AR401900)
 - 5 REMOVE AND SALVAGE RETROREFLECTIVE MARKER, RETURN TO OWNER (AR125912)
 - 6 REMOVE EXISTING STRUCTURE, BACKFILL AND COMPACT PER ITEM 152 (AR751906)
 - 7 REMOVE EXISTING STRUCTURE (AR751906)
 - 8 ADJUST EXISTING DUCTBANK MARKER (AR110949), SEE GRADING AND DRAINAGE SERIES
 - 9 ADJUST STRUCTURE PER STRUCTURE ADJUSTMENT TABLE ON SHEET CG-201 (AR751940)
 - 10 GRADING LIMITS, SEE SHEETS CG-101 THROUGH CG-104

- ### GENERAL NOTES
1. REFER TO GEOMETRIC LAYOUT ON SHEET GL-101 THROUGH GL-104 FOR PROPOSED PAVING DETAILS.
 2. REFER TO TYPICAL SECTIONS ON SHEET CT-201 AND CT-202 FOR PAVEMENT STRUCTURAL SECTIONS.
 3. INFORMATION SHOWN HEREIN IS REPRESENTATIVE AND HAS BEEN USED BY THE ENGINEER AS A BASIS OF DESIGN. THE CONTRACTOR SHALL VERIFY AND MATCH EXISTING ELEVATIONS AND GRADES WHERE APPLICABLE AND NOTIFY THE ENGINEER IMMEDIATELY OF ANY DISCREPANCIES BETWEEN THE INFORMATION SHOWN HEREIN AND THAT FOUND IN THE FIELD.
 4. THE CONTRACTOR SHALL LOCATE, FLAG, AND PROTECT ALL EXISTING FACILITIES, UNDERGROUND UTILITIES, STORM SEWER PIPES AND STRUCTURES. DAMAGE TO ANY INFRASTRUCTURE ON OR OFF AIRPORT PROPERTY AS DETERMINED BY THE ENGINEER SHALL BE IMMEDIATELY REPAIRED OR REPLACED BY THE CONTRACTOR TO THE OWNER'S APPROVAL AT NO ADDITIONAL COST TO THE CONTRACT.
 5. SURFACE DAMAGE OR CRACKING OF EXISTING BITUMINOUS/CONCRETE PAVEMENTS TO REMAIN OR BUILDING FOUNDATIONS CAUSED BY THE CONTRACTOR AS DETERMINED BY THE ENGINEER SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE CONTRACT.



4201 WINFIELD ROAD
SUITE 600
WARRENVILLE, IL 60555
TEL (630) 487-5550



DATE:	SCALE:	
11/22/2024	1" = 50'	
DRAWN BY:	CHECKED BY:	
MPM	JY	
REV.	DATE	DESCRIPTION
0	11/22/2024	ISSUED FOR BID

TITLE: DEMOLITION PLAN
PROJECT: CONSTRUCT REPLACEMENT PARALLEL TAXIWAY AND REPLACE AIRPORT ROTATING BEACON VILLAGE OF BOLINGBROOK BOLINGBROOK, WILL COUNTY, ILLINOIS

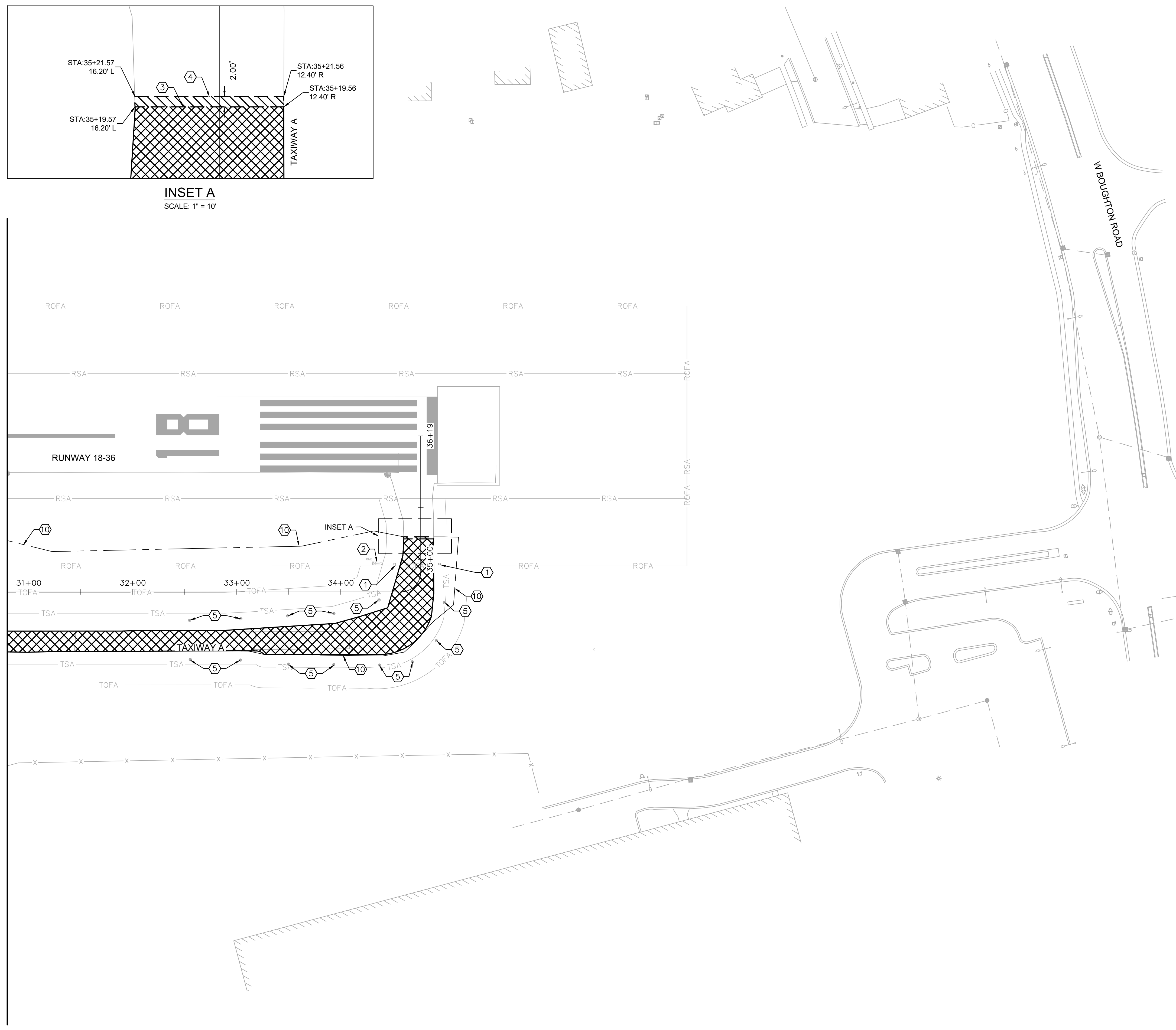


DRAWING NO. **CD-103**

PROJECT NUMBER: 168001005

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 THIS RECORD CONTAINS SENSITIVE SECURITY INFORMATION THAT IS CONTROLLED IN 49 CFR PART 1520. NO PART OF THIS RECORD MAY BE DISCLOSED TO PERSONS WITHOUT A "NEED TO KNOW", AS DIRECTED IN 49 CFR PART 1520, EXCEPT WITH THE WRITTEN PERMISSION OF THE ADMINISTRATOR, THE TRANSPORTATION SECURITY ADMINISTRATION OR THE SECRETARY OF TRANSPORTATION. UNAUTHORIZED RELEASE MAY RESULT IN CIVIL PENALTY OR OTHER ACTION. FOR US GOVERNMENT AGENCIES, PUBLIC DISCLOSURE IS GOVERNED BY 5 U.S.C. 552 AND 49 CFR PART 1520.

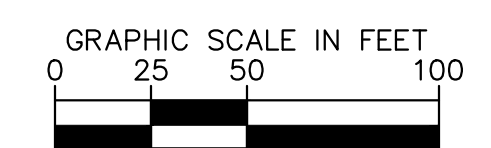
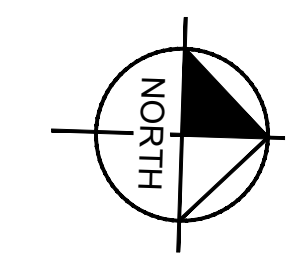
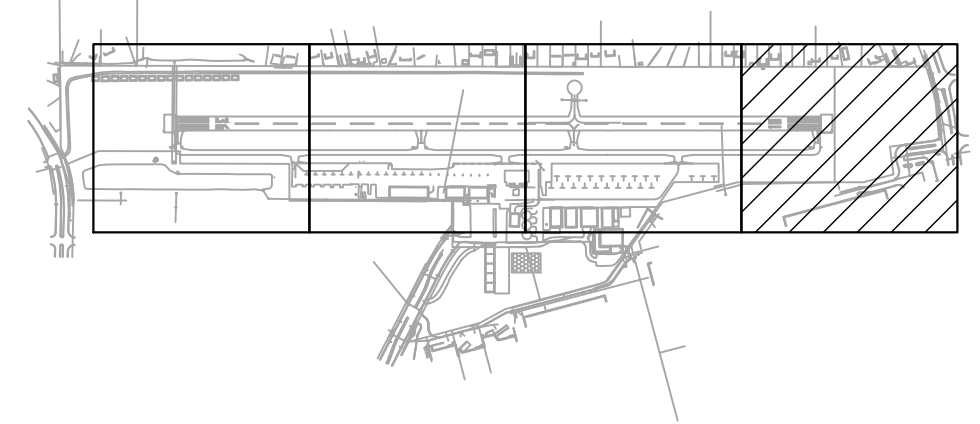
MATCH LINE STA. 229+50.00 - SEE SHEET CD-103



- ### LEGEND
- PARTIAL DEPTH BITUMINOUS PAVEMENT MILLING (1.5'-3" APPROX)
 - FULL DEPTH PAVEMENT REMOVAL (5" APPROX)
 - BITUMINOUS PAVEMENT SAWING
 - EXISTING STORM SEWER PIPE
 - EXISTING STORM SEWER STRUCTURE
 - EXISTING RETROREFLECTIVE MARKER
 - UTILITY DEMOLITION

- ### CONSTRUCTION NOTES
- 1 PROTECT EXISTING STRUCTURE OR UTILITY
 - 2 PROTECT EXISTING AIRFIELD SIGNS
 - 3 FULL DEPTH BITUMINOUS PAVEMENT SAWING (DEPTH VARIES) (INCIDENTAL TO AR401900)
 - 4 PARTIAL DEPTH PAVEMENT SAWING (1.5'-3") (INCIDENTAL TO AR401900)
 - 5 REMOVE AND SALVAGE RETROREFLECTIVE MARKER, RETURN TO OWNER (AR125912)
 - 6 REMOVE EXISTING STRUCTURE, BACKFILL AND COMPACT PER ITEM 152 (AR751906)
 - 7 REMOVE EXISTING STRUCTURE (AR751906)
 - 8 ADJUST EXISTING DUCTBANK MARKER (AR110949), SEE GRADING AND DRAINAGE SERIES
 - 9 ADJUST STRUCTURE PER STRUCTURE ADJUSTMENT TABLE ON SHEET CG-201 (AR751940)
 - 10 GRADING LIMITS, SEE SHEETS CG-101 THROUGH CG-104

- ### GENERAL NOTES
1. REFER TO GEOMETRIC LAYOUT ON SHEET GL-101 THROUGH GL-104 FOR PROPOSED PAVING DETAILS.
 2. REFER TO TYPICAL SECTIONS ON SHEET CT-201 AND CT-202 FOR PAVEMENT STRUCTURAL SECTIONS.
 3. INFORMATION SHOWN HEREIN IS REPRESENTATIVE AND HAS BEEN USED BY THE ENGINEER AS A BASIS OF DESIGN. THE CONTRACTOR SHALL VERIFY AND MATCH EXISTING ELEVATIONS AND GRADES WHERE APPLICABLE AND NOTIFY THE ENGINEER IMMEDIATELY OF ANY DISCREPANCIES BETWEEN THE INFORMATION SHOWN HEREIN AND THAT FOUND IN THE FIELD.
 4. THE CONTRACTOR SHALL LOCATE, FLAG, AND PROTECT ALL EXISTING FACILITIES, UNDERGROUND UTILITIES, STORM SEWER PIPES AND STRUCTURES. DAMAGE TO ANY INFRASTRUCTURE ON OR OFF AIRPORT PROPERTY AS DETERMINED BY THE ENGINEER SHALL BE IMMEDIATELY REPAIRED OR REPLACED BY THE CONTRACTOR TO THE OWNER'S APPROVAL AT NO ADDITIONAL COST TO THE CONTRACT.
 5. SURFACE DAMAGE OR CRACKING OF EXISTING BITUMINOUS/CONCRETE PAVEMENTS TO REMAIN OR BUILDING FOUNDATIONS CAUSED BY THE CONTRACTOR AS DETERMINED BY THE ENGINEER SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE CONTRACT.



4201 WINFIELD ROAD
SUITE 600
WARRENVILLE, IL 60555
TEL (630) 487-5550



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REV.	DATE	DESCRIPTION	
0	11/22/2024	ISSUED FOR BID	

TITLE: DEMOLITION PLAN

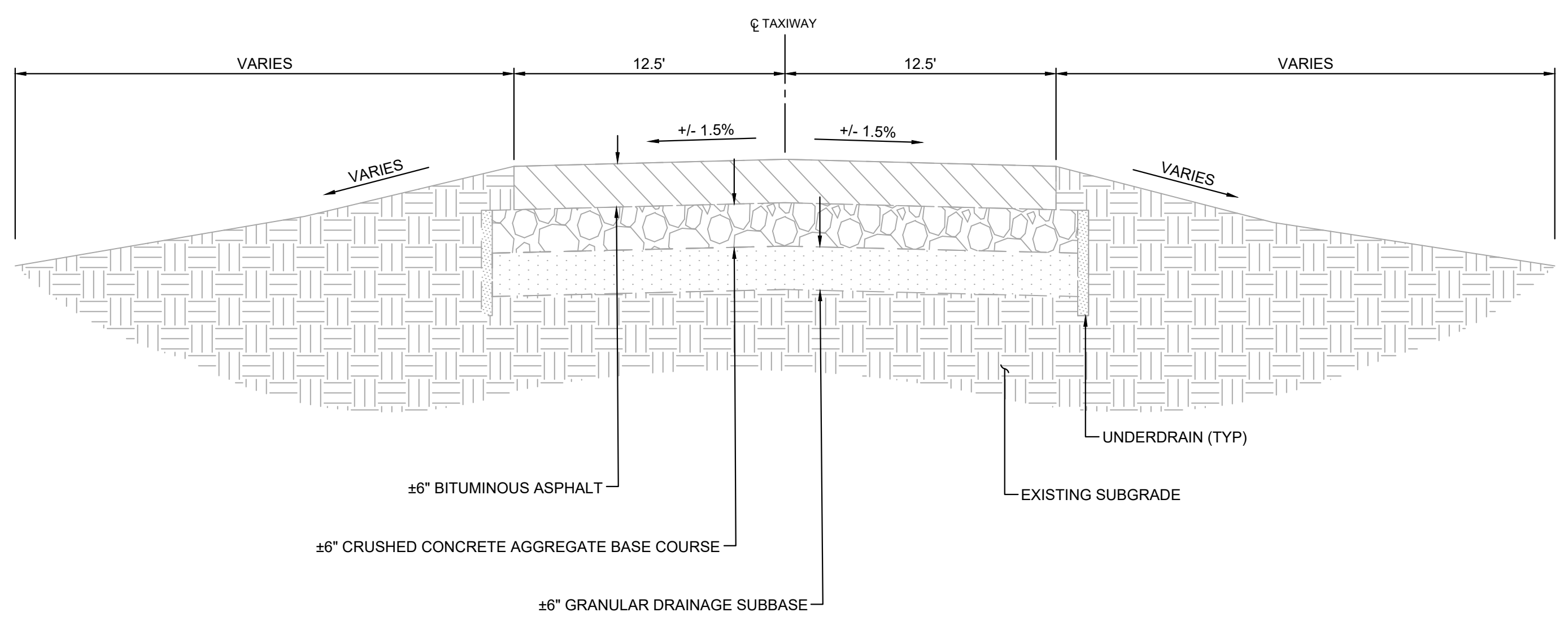
PROJECT: CONSTRUCT REPLACEMENT PARALLEL TAXIWAY AND REPLACE AIRPORT ROTATING BEACON VILLAGE OF BOLINGBROOK BOLINGBROOK, WILL COUNTY, ILLINOIS



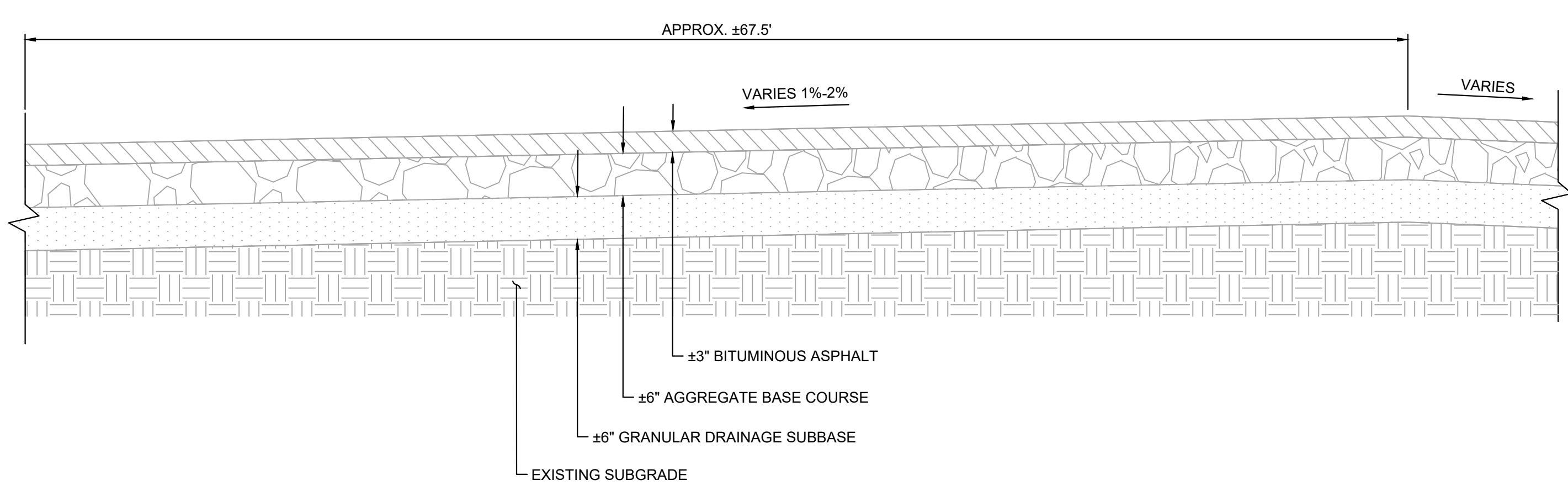
DRAWING NO. **CD-104**

PROJECT NUMBER: 168001005

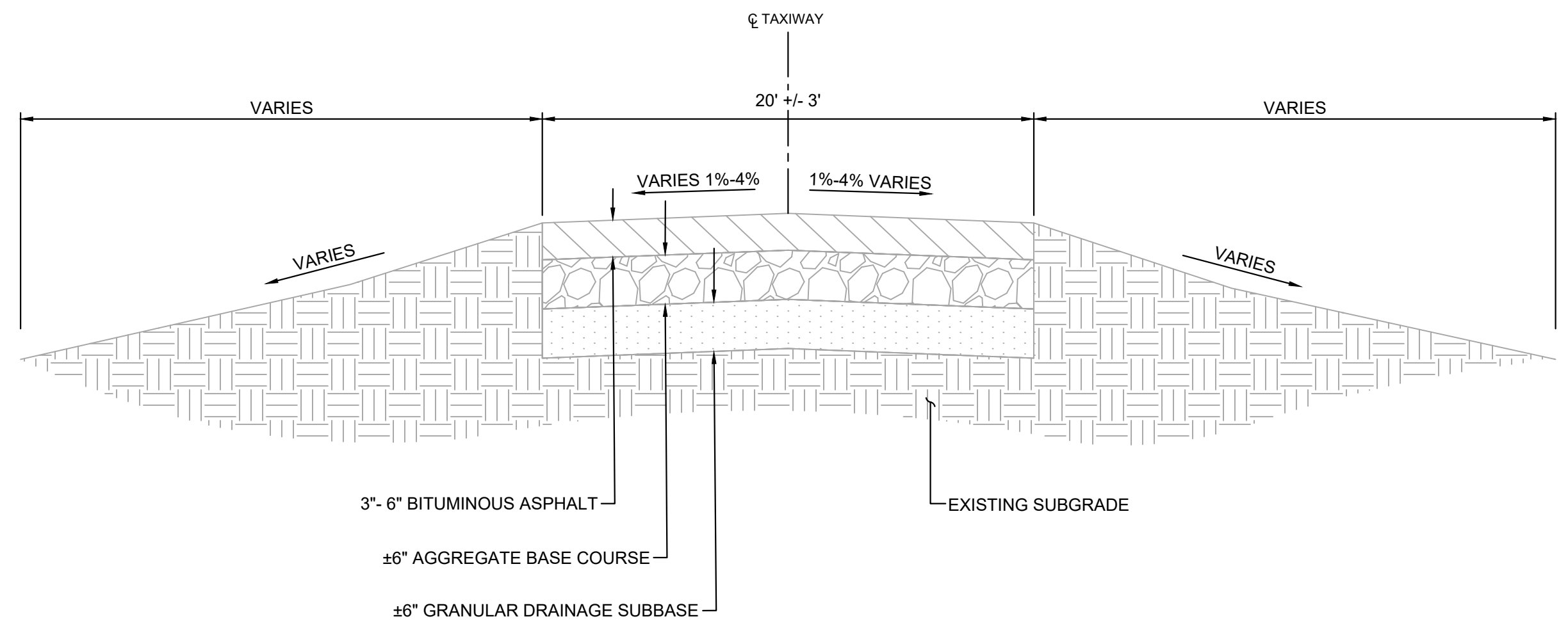
K:\GIS_Aviation\168001005 - 105 - Construct Parallel Taxiway\168001005 - CT TypicalSections.dwg, Burlington, Luke
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1 EXISTING TAXIWAY CONNECTORS TYPICAL SECTION
 CT-201 NTS
 NOTE: INCLUDES RUNWAY END CONNECTORS



2 EXISTING APRON TYPICAL SECTION
 CT-201 NTS



3 EXISTING TAXIWAY A TYPICAL SECTION
 CT-201 NTS

GENERAL SHEET NOTES

- REFER TO BORING LOGS ON SHEETS GR-201 THROUGH GR-202 FOR EXISTING PAVEMENT INFORMATION.
- EXISTING TYPICAL SECTIONS ARE APPROXIMATE AND SHOWN AS SUPPLEMENTAL INFORMATION ONLY. PAVEMENT DEPTHS WERE COMPILED BASED ON THE BEST AVAILABLE RECORDS AND MAY VARY DUE TO INCONSISTENT PAVEMENT THICKNESS.
- EXPOSED SUBGRADE AND BASE MATERIAL SHALL BE KEPT MOIST, COMPACTED AND TREATED WITH A DUST PALLIATIVE TO MINIMIZE FOD.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DEWATERING AT NO ADDITIONAL COST TO THE CONTRACT. ANY REWORK OR ADDITIONAL WORK REQUIRED BECAUSE OF THE CONTRACTOR'S FAILURE TO MAINTAIN ADEQUATE DRAINAGE WILL BE AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL LOCATE, FLAG, AND PROTECT ALL EXISTING FACILITIES, UNDERGROUND UTILITIES, STORM SEWER PIPES AND STRUCTURES. DAMAGE TO ANY INFRASTRUCTURE ON OR OFF AIRPORT PROPERTY AS DETERMINED BY THE ENGINEER SHALL BE IMMEDIATELY REPAIRED OR REPLACED BY THE CONTRACTOR TO THE OWNER'S APPROVAL AT NO ADDITIONAL COST TO THE CONTRACT.
- SURFACE DAMAGE OR CRACKING OF EXISTING BITUMINOUS/CONCRETE PAVEMENTS TO REMAIN OR BUILDING FOUNDATIONS TO REMAIN CAUSED BY THE CONTRACTOR AS DETERMINED BY THE ENGINEER SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE CONTRACT.



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DATE: 11/22/2024	SCALE: NTS	
DRAWN BY: MPM	CHECKED BY: JY	
REV.	DATE	DESCRIPTION
0	11/22/2024	ISSUED FOR BID

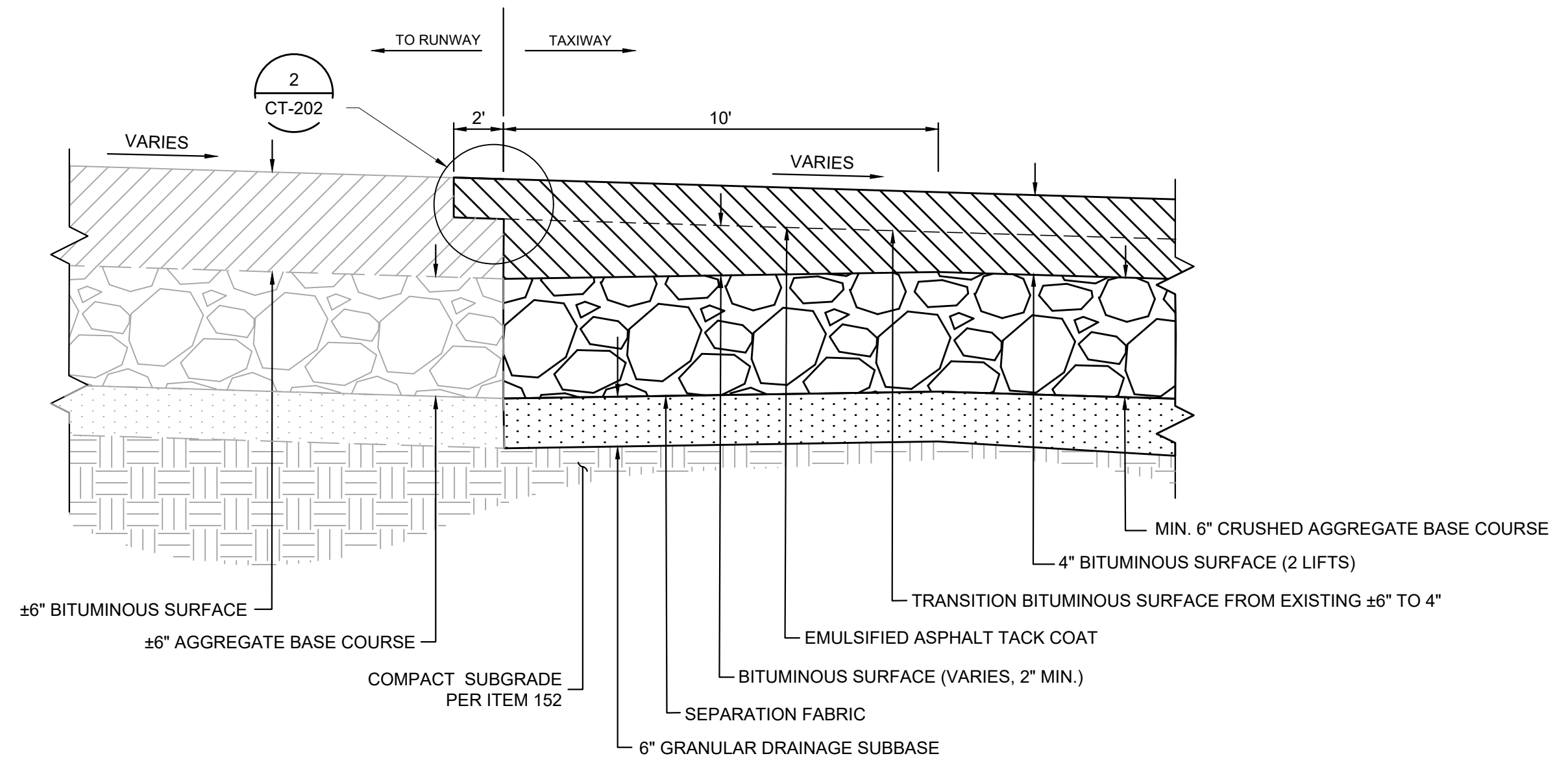
TITLE: EXISTING TYPICAL SECTIONS
PROJECT: CONSTRUCT REPLACEMENT PARALLEL TAXIWAY AND REPLACE AIRPORT ROTATING BEACON VILLAGE OF BOLINGBROOK BOLINGBROOK, WILL COUNTY, ILLINOIS



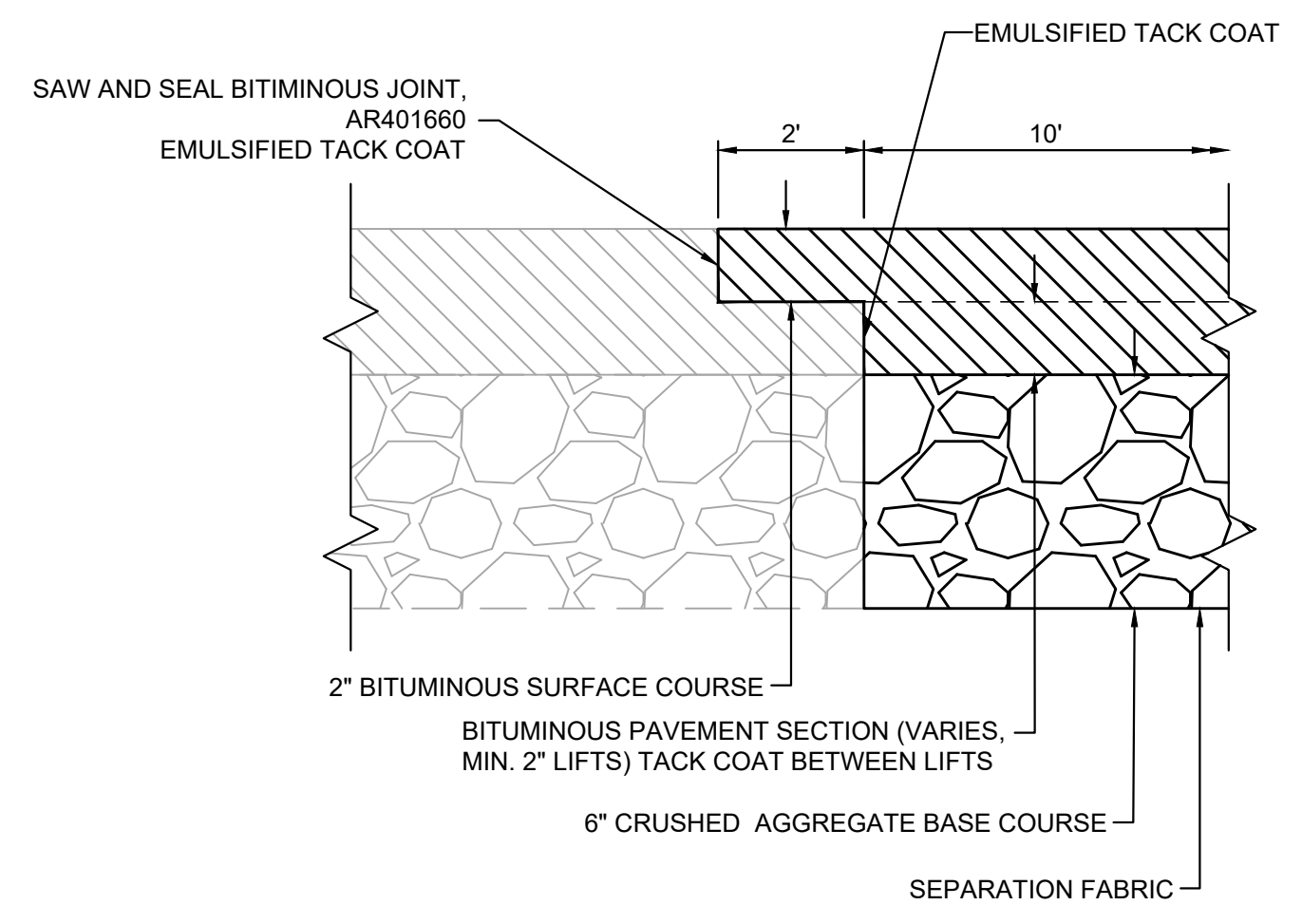
DRAWING NO. **CT-201**
 PROJECT NUMBER: 168001005



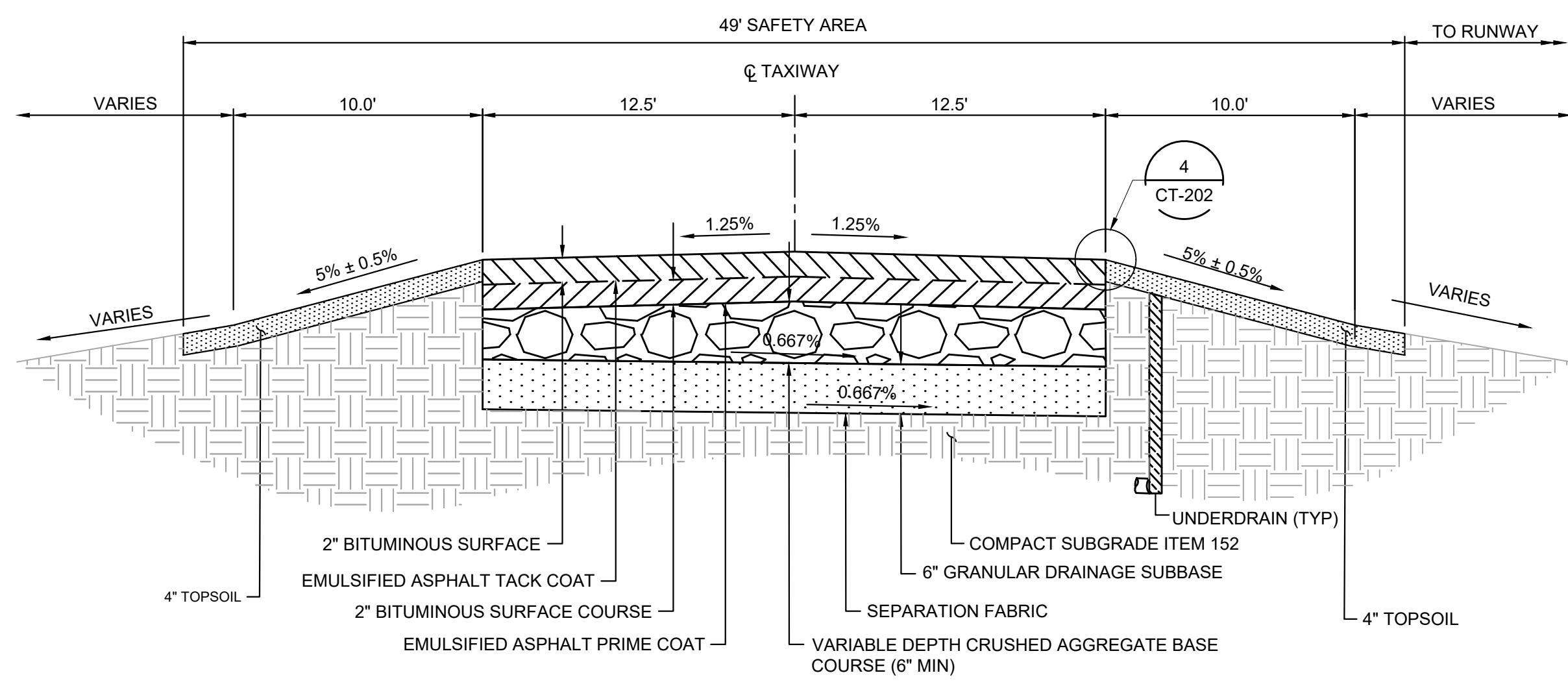
K:\GIS\Aviation\168001005 - 105 Construct Parallel Taxiway\Drawings\168001005-CT_TypicalSections.dwg, Building: Luke, Date: 11/22/2024, 4:47 PM, This drawing is the property of Kimley-Horn and Associates, Inc. and is not to be reproduced, stored in a retrieval system, or transmitted in any form or by any means, without the prior written permission of Kimley-Horn and Associates, Inc.



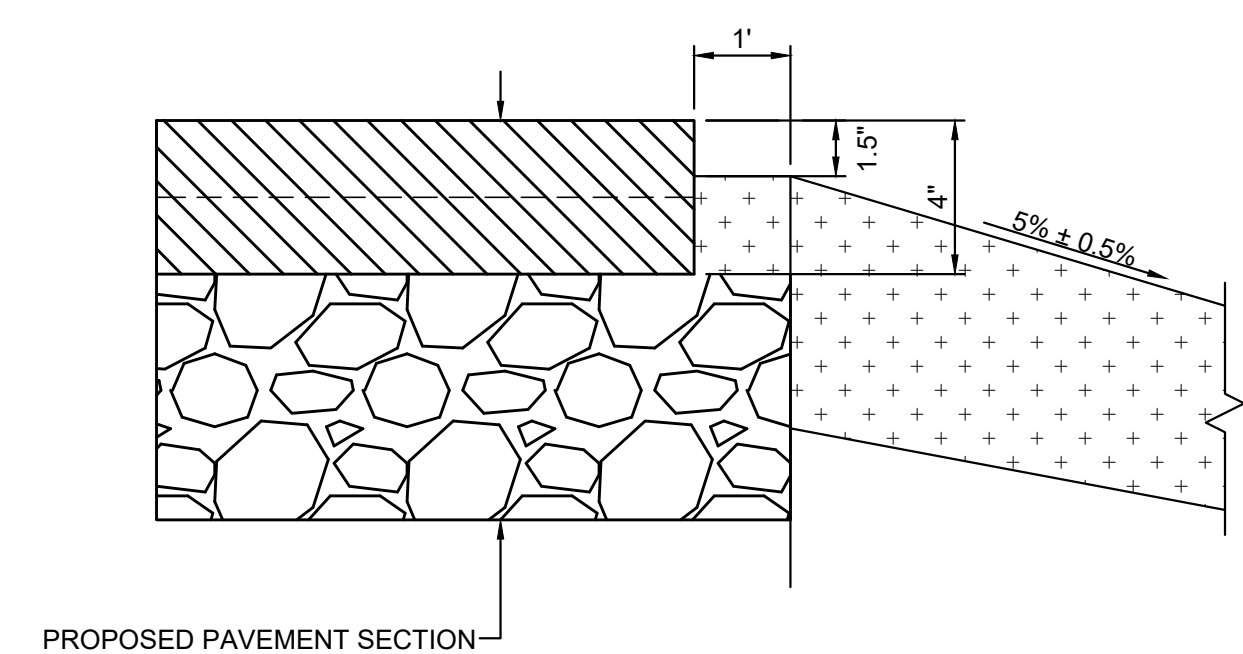
1 ASPHALT PAVEMENT TRANSITION WEDGE (LONGITUDINAL)
 CT-202 NTS
 TW A: STA. 1+03.60 TO STA. 1+13.60
 TW A1: STA. 31+00.81 TO STA. 31+10.81
 TW A2: STA. 40+96.68 TO STA. 41+11.71
 TW A: STA. 35+09.56 TO STA. 35+19.56



2 EXISTING TO PROPOSED ASPHALT PAVEMENT TRANSITION
 CT-202 NTS
 TW A: STA. 1+01.60 TO STA. 1+03.60
 TW A1: STA. 30+98.81 TO STA. 31+00.81
 TW A2: STA. 40+94.68 TO STA. 41+01.71
 TW A: STA. 35+19.56 TO STA. 35+21.56



3 PROPOSED TAXIWAY A TYPICAL SECTION
 CT-202 NTS
 STA. 1+29.00 TO STA. 34+89.65



4 PAVEMENT EDGE DETAIL
 CT-202 NTS

GENERAL SHEET NOTES

- REFER TO BORING LOGS FOR EXISTING PAVEMENT INFORMATION.
- EXISTING TYPICAL SECTIONS ARE APPROXIMATE AND SHOWN AS SUPPLEMENTAL INFORMATION ONLY. PAVEMENT DEPTHS WERE COMPILED BASED ON THE BEST AVAILABLE RECORDS AND MAY VARY DUE TO INCONSISTENT PAVEMENT THICKNESSES AND/OR GUIDANCE.
- EXPOSED SUBGRADE AND BASE MATERIAL SHALL BE KEPT MOIST, COMPACTED AND TREATED WITH A DUST PALLIATIVE TO MINIMIZE FOD.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DEWATERING AT NO ADDITIONAL COST TO THE CONTRACT. ANY REWORK OR ADDITIONAL WORK REQUIRED BECAUSE OF THE CONTRACTOR'S FAILURE TO MAINTAIN ADEQUATE DRAINAGE WILL BE AT THE CONTRACTOR'S EXPENSE.
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- SURFACE DAMAGE OR CRACKING OF EXISTING BITUMINOUS/CONCRETE PAVEMENTS TO REMAIN OR BUILDING FOUNDATIONS CAUSED BY THE CONTRACTOR AS DETERMINED BY THE ENGINEER SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE CONTRACT.



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DATE: 11/22/2024	SCALE: NTS	
DRAWN BY: MPM	CHECKED BY: JY	
REV.	DATE	DESCRIPTION
0	11/22/2024	ISSUED FOR BID

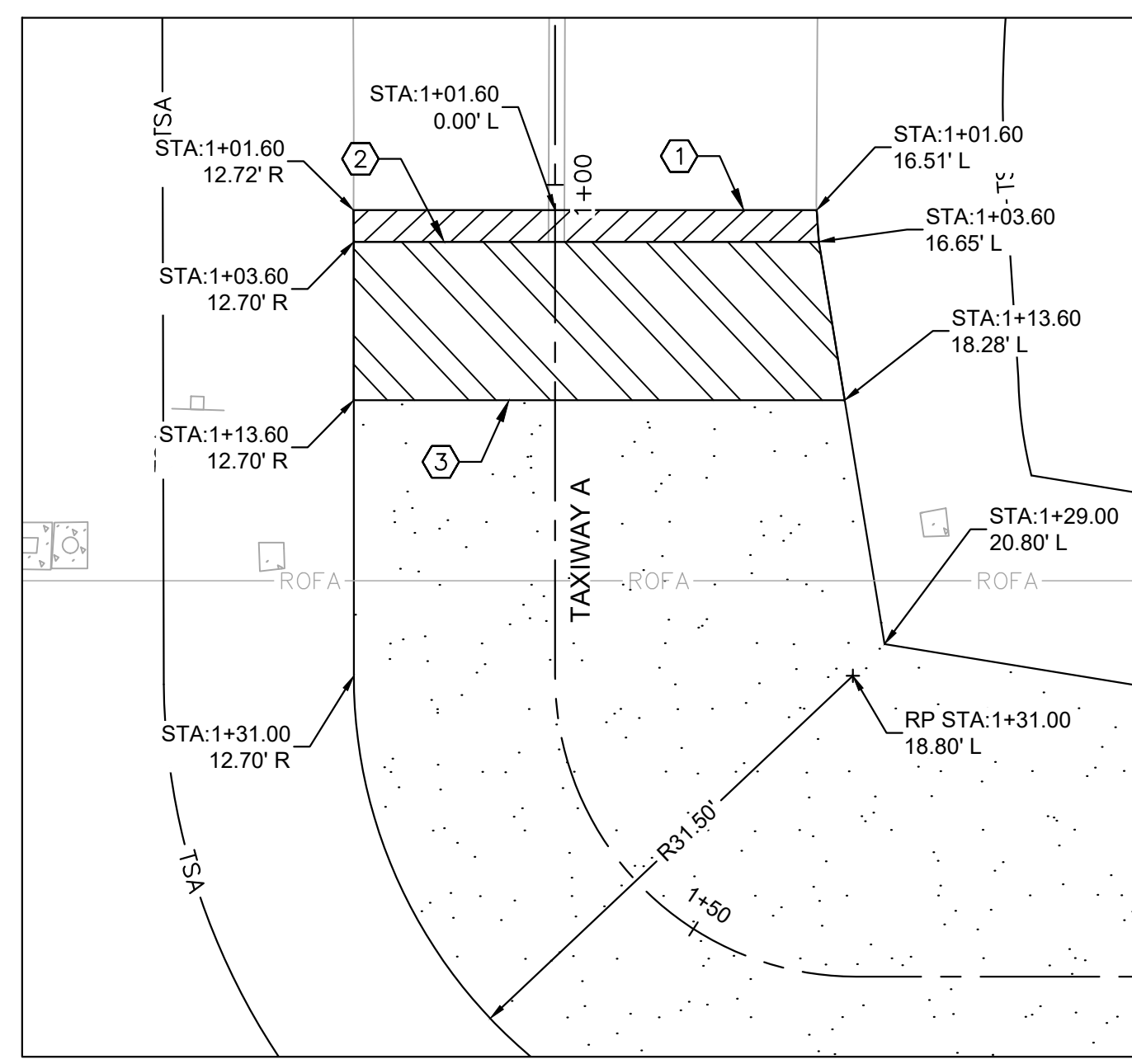
PROPOSED TYPICAL SECTIONS
 PROJECT:
CONSTRUCT REPLACEMENT PARALLEL TAXIWAY AND REPLACE AIRPORT ROTATING BEACON VILLAGE OF BOLINGBROOK VILLAGE OF BOLINGBROOK, WILL COUNTY, ILLINOIS



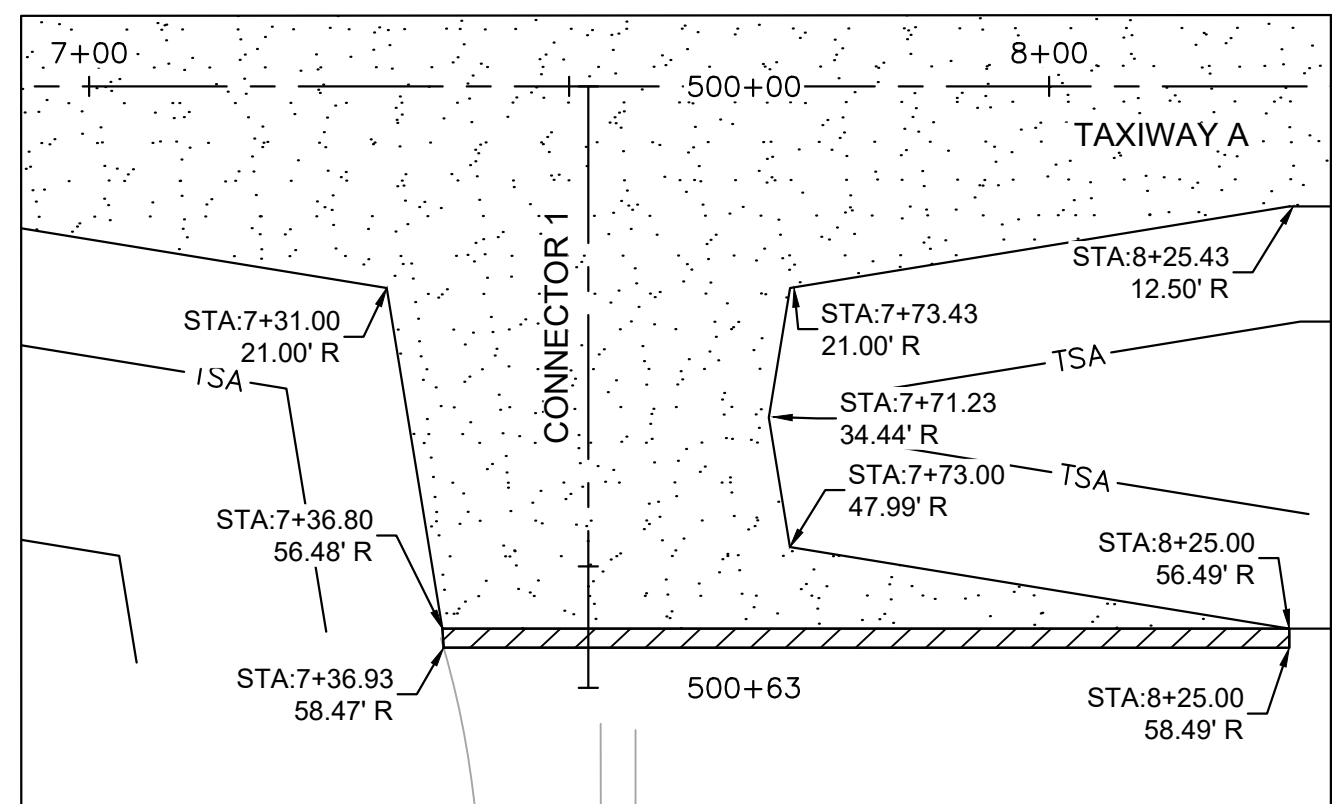
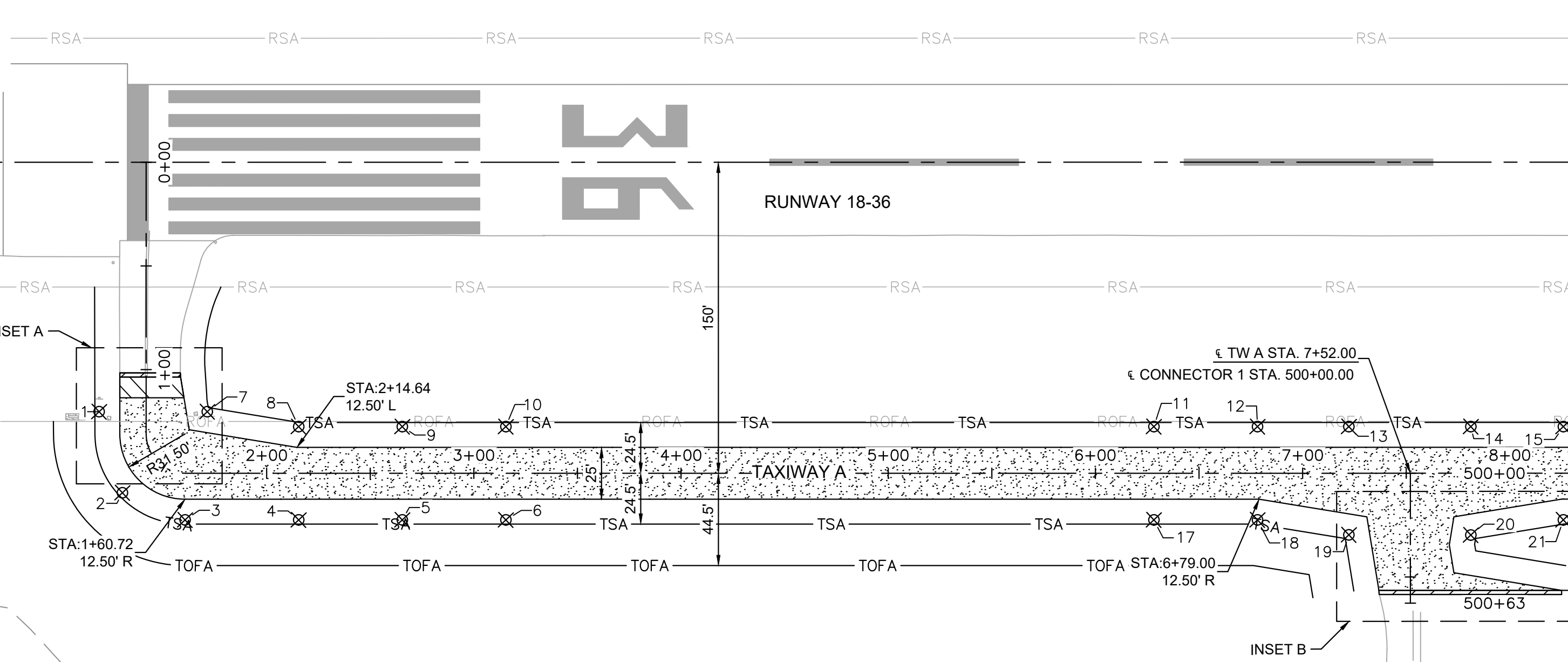
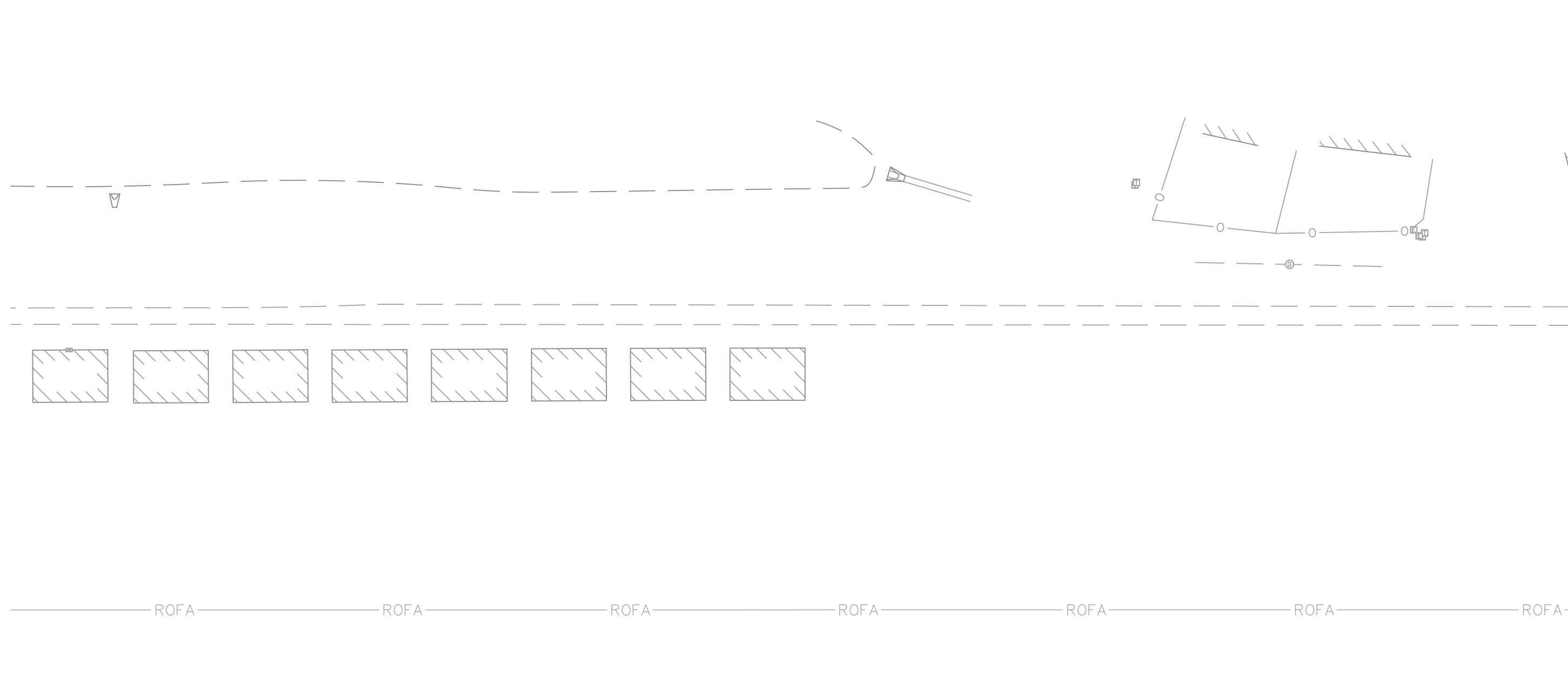
DRAWING NO.
CT-202
 PROJECT NUMBER:
 168001005



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 DATE: 11/22/2024 9:43 AM
 THIS DRAWING IS UNLESS OTHERWISE SPECIFIED TO BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR CONSTRUCTION OF AIRPORTS, SIXTH EDITION, AND AERODROME OBSTRUCTION LIGHTING, SECOND EDITION, WHICH ARE INCORPORATED BY REFERENCE INTO THIS DOCUMENT. WITHOUT WRITTEN AUTHORIZATION AND ADAPTATION BY KIMLEY-HORN AND ASSOCIATES, INC. SHALL BE WITHOUT LIABILITY TO KIMLEY-HORN AND ASSOCIATES, INC.



INSET A
SCALE: 1" = 10'



INSET B
SCALE: 1" = 20'

REFLECTIVE MARKER LOCATIONS		
NUMBER	NORTHING	EASTING
1	1830158.9493	1040093.7420
2	1830171.4061	1040132.4910
3	1830202.0398	1040144.6336
4	1830256.8390	1040142.9236
5	1830306.8148	1040141.3656
6	1830356.7905	1040139.8076
7	1830211.1297	1040092.1153
8	1830255.4368	1040097.9450
9	1830305.4126	1040096.3870
10	1830355.3883	1040094.8291
11	1830667.9739	1040085.0690
12	1830717.9496	1040083.5110

REFLECTIVE MARKER LOCATIONS		
NUMBER	NORTHING	EASTING
13	1830762.0315	1040082.1368
14	1830820.8680	1040080.3026
15	1830865.5020	1040078.9111
16	1830915.4776	1040077.3532
17	1830669.3760	1040130.0469
18	1830719.3518	1040128.4889
19	1830763.6582	1040134.3186
20	1830822.4975	1040132.5725
21	1830866.9040	1040123.8833
22	1830916.8828	1040122.4280
23	1831327.1353	1040064.4915
24	1831377.1110	1040062.9335

LEGEND

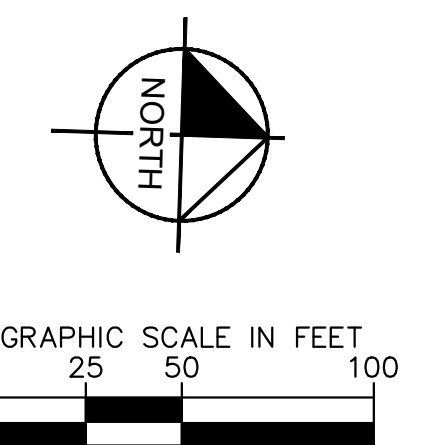
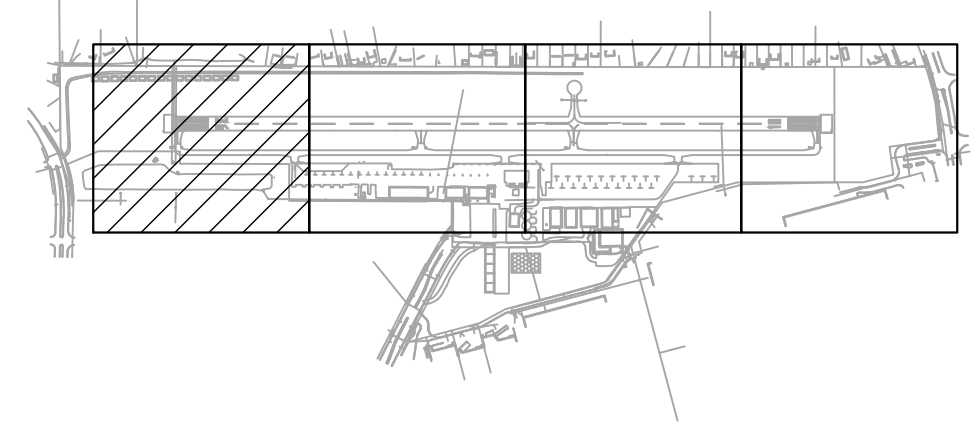
- 4 INCH BITUMINOUS PAVEMENT (FULL DEPTH)
- EXISTING TO PROPOSED ASPHALT PAVEMENT TRANSITION, REFER TO DETAIL 2/CT-202
- ASPHALT PAVEMENT TRANSITION WEDGE, REFER TO DETAIL 1/CT-202
- REFLECTIVE MARKER LOCATION

CONSTRUCTION NOTES

- ① MATCH EXISTING PAVEMENT ELEVATION
- ② EXISTING TO PROPOSED ASPHALT PAVEMENT TRANSITION
- ③ ASPHALT PAVEMENT TRANSITION WEDGE

GENERAL SHEET NOTES

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5. ALL STA/OFF LABELS REFERENCE THE TAXIWAY A ALIGNMENT.



MATCH LINE STA 207+00.00 - SEE SHEET GL-102



4201 WINFIELD ROAD
SUITE 600
WARRENVILLE, IL 60555
TEL (630) 487-5550



DATE:	SCALE:	
11/22/2024	1" = 50'	
DRAWN BY:	CHECKED BY:	
JRH	JY	
REV.	DATE	DESCRIPTION
0	11/22/2024	ISSUED FOR BID

TITLE: GEOMETRY PLAN
PROJECT: CONSTRUCT REPLACEMENT PARALLEL TAXIWAY AND REPLACE AIRPORT ROTATING BEACON VILLAGE OF BOLINGBROOK, WILL COUNTY, ILLINOIS

CERTIFICATION:

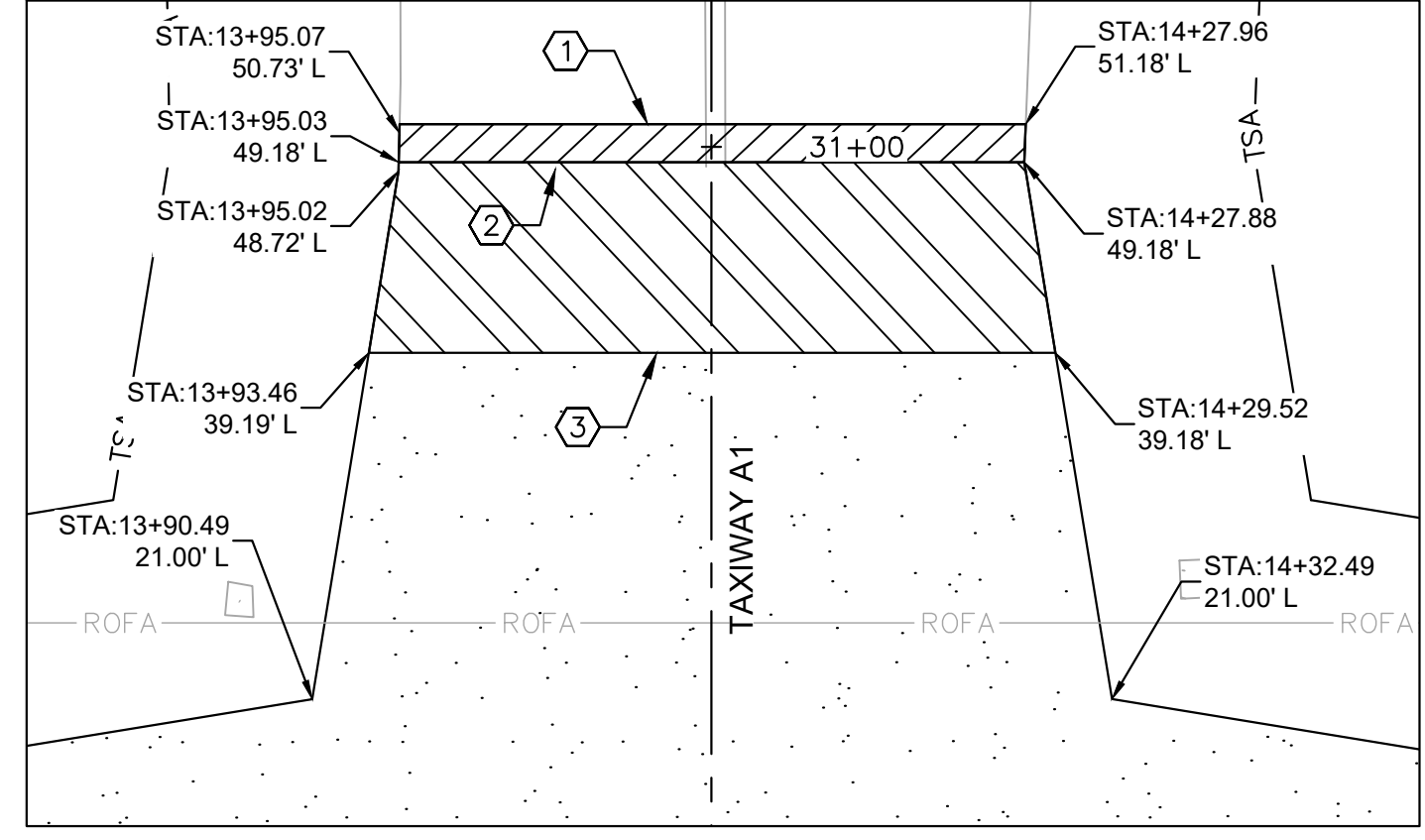
11/22/2024

DRAWING NO. **GL-101**
PROJECT NUMBER: 168001005

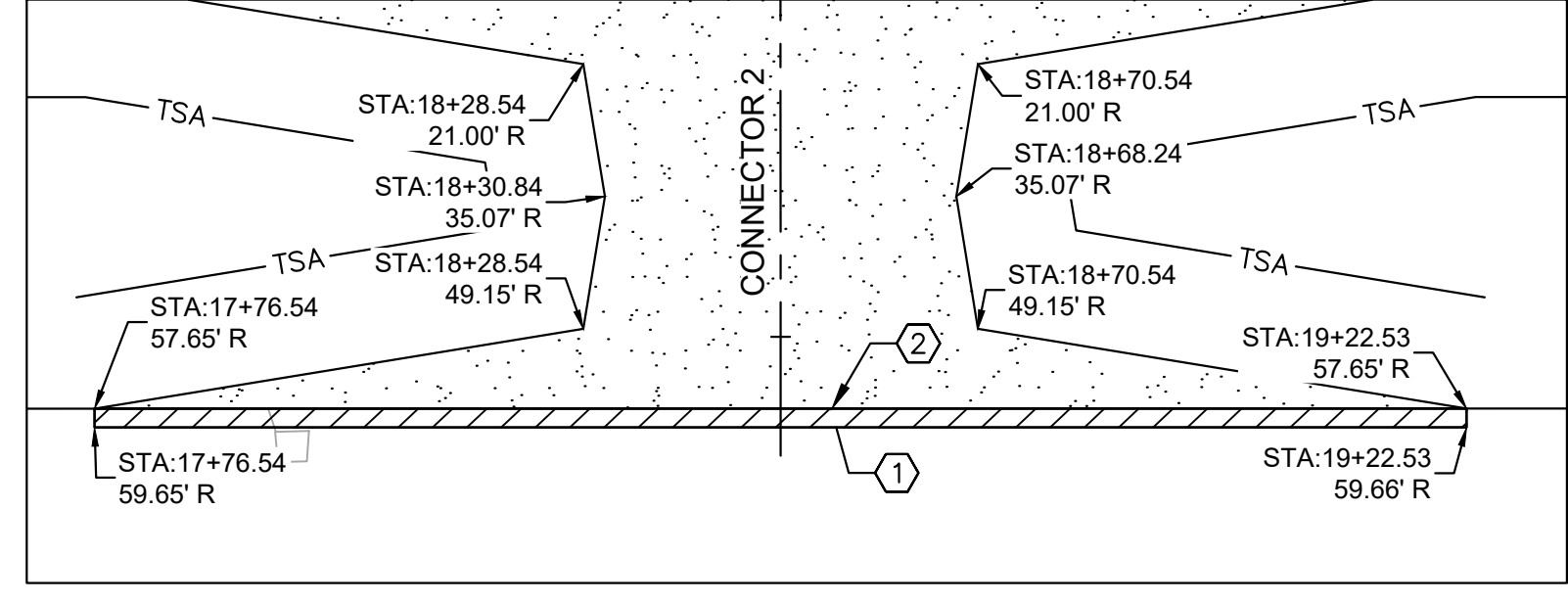
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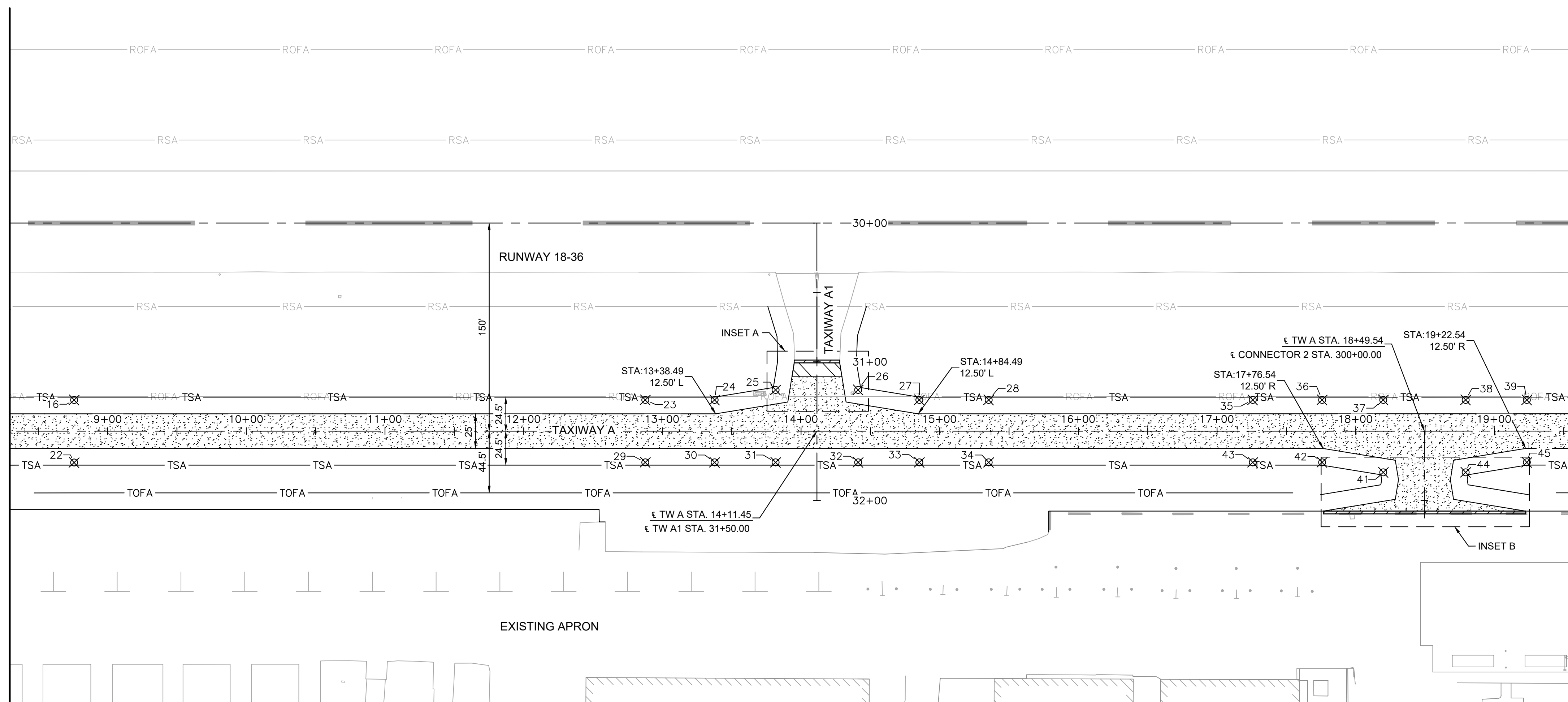
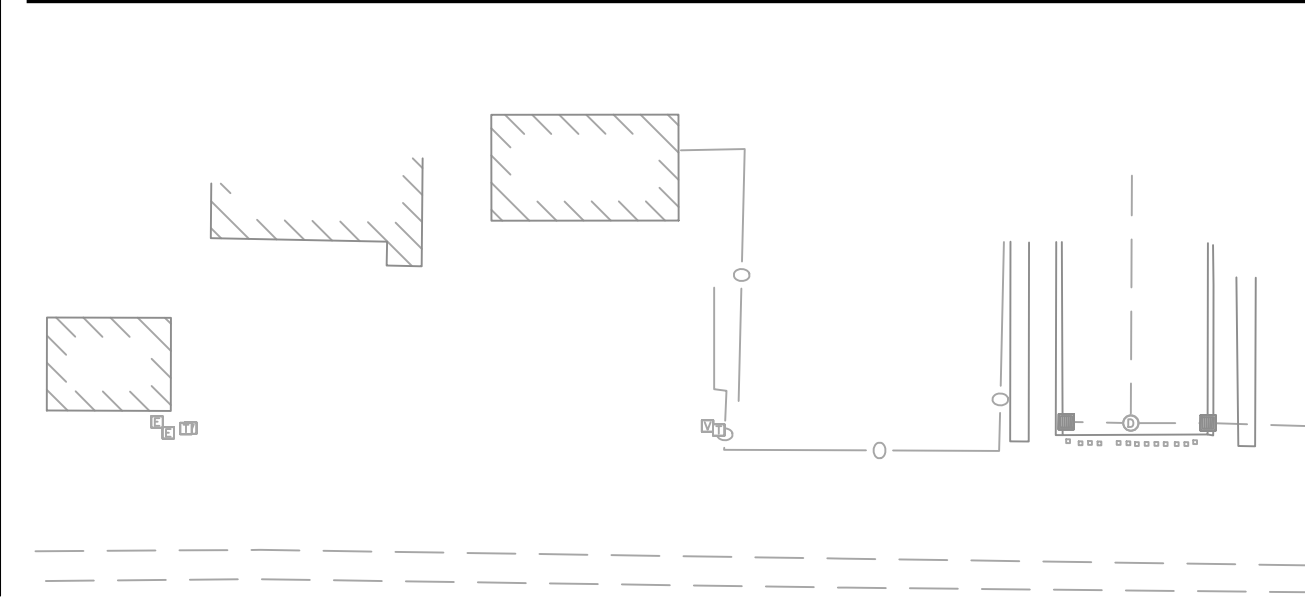
MATCH LINE STA 218+25.00 - SEE SHEET GL-103



INSET A
SCALE: 1" = 10'



INSET B
SCALE: 1" = 20'



REFLECTIVE MARKER LOCATIONS		
NUMBER	NORTHING	EASTING
25	1831420.8418	1040054.3524
26	1831480.3204	1040052.4930
27	1831524.6659	1040058.3278
28	1831574.6416	1040056.7698
29	1831328.5376	1040109.4728
30	1831378.5133	1040107.9128
31	1831422.4688	1040106.5407
32	1831481.9474	1040104.6840
33	1831526.0681	1040103.3067
34	1831576.0438	1040101.7466
35	1831764.9775	1040050.8274
36	1831814.9532	1040049.2695

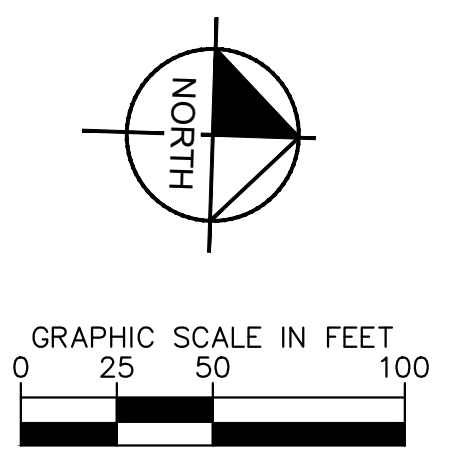
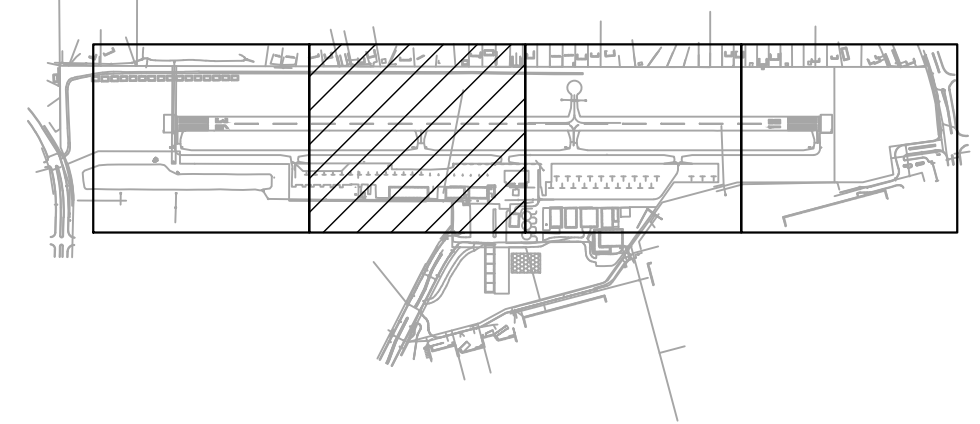
REFLECTIVE MARKER LOCATIONS		
NUMBER	NORTHING	EASTING
37	1831859.0349	1040047.8952
38	1831918.4242	1040046.0438
39	1831962.5054	1040044.6696
40	1832012.4811	1040043.1116
41	1831860.6615	1040100.0747
42	1831816.3553	1040094.2450
43	1831766.3796	1040095.8050
44	1831920.0508	1040098.2209
45	1831963.9073	1040089.6393
46	1832013.8830	1040088.0788
47	1832121.7804	1040039.6877
48	1832171.7561	1040038.1297

LEGEND

- 4 INCH BITUMINOUS PAVEMENT (FULL DEPTH)
- EXISTING TO PROPOSED ASPHALT PAVEMENT TRANSITION, REFER TO DETAIL 2/CT-202
- ASPHALT PAVEMENT TRANSITION WEDGE, REFER TO DETAIL 1/CT-202
- REFLECTIVE MARKER LOCATION

- CONSTRUCTION NOTES**
- ① MATCH EXISTING PAVEMENT ELEVATION
 - ② EXISTING TO PROPOSED ASPHALT PAVEMENT TRANSITION
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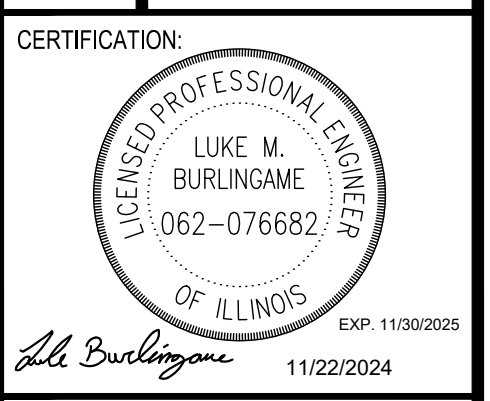


4201 WINFIELD ROAD
SUITE 600
WARRENVILLE, IL 60555
TEL (630) 487-5550



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JRH	JY	
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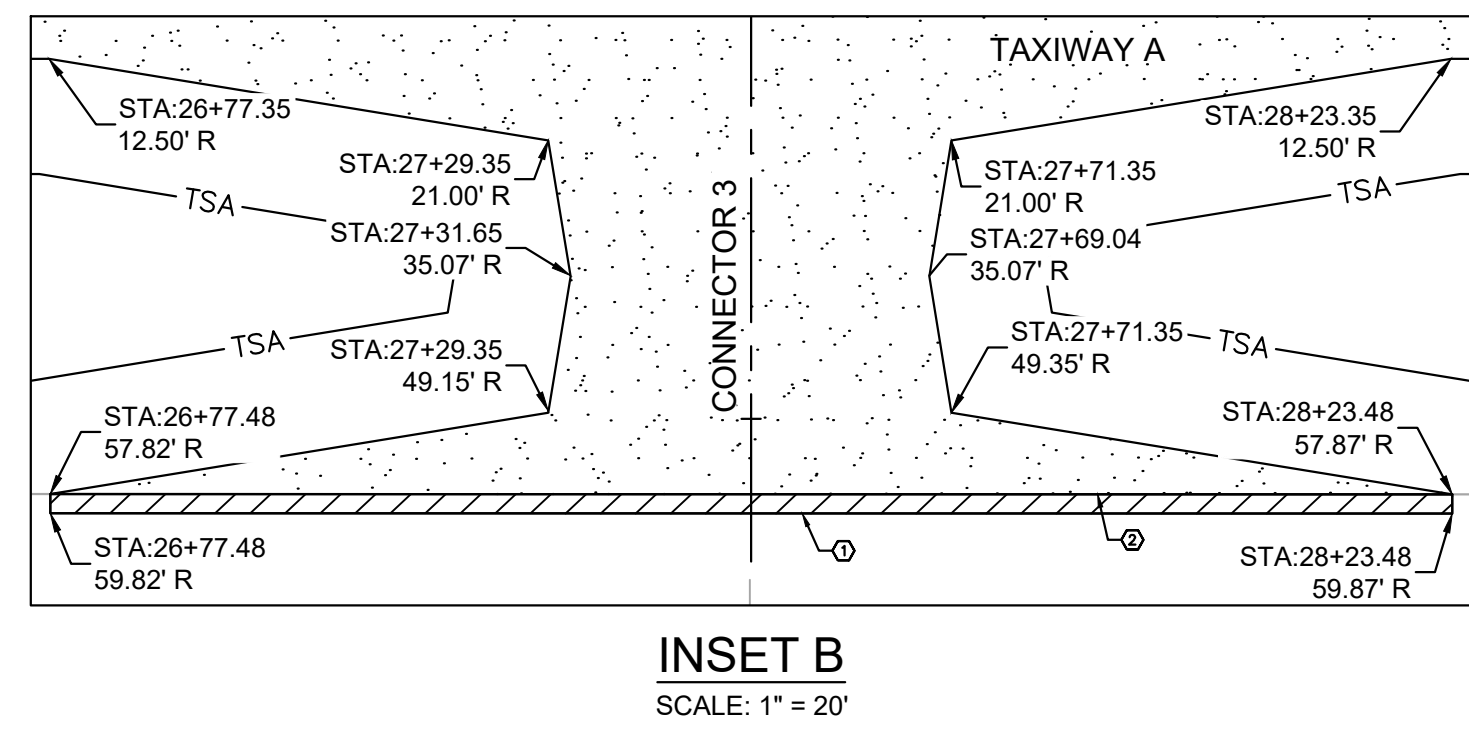
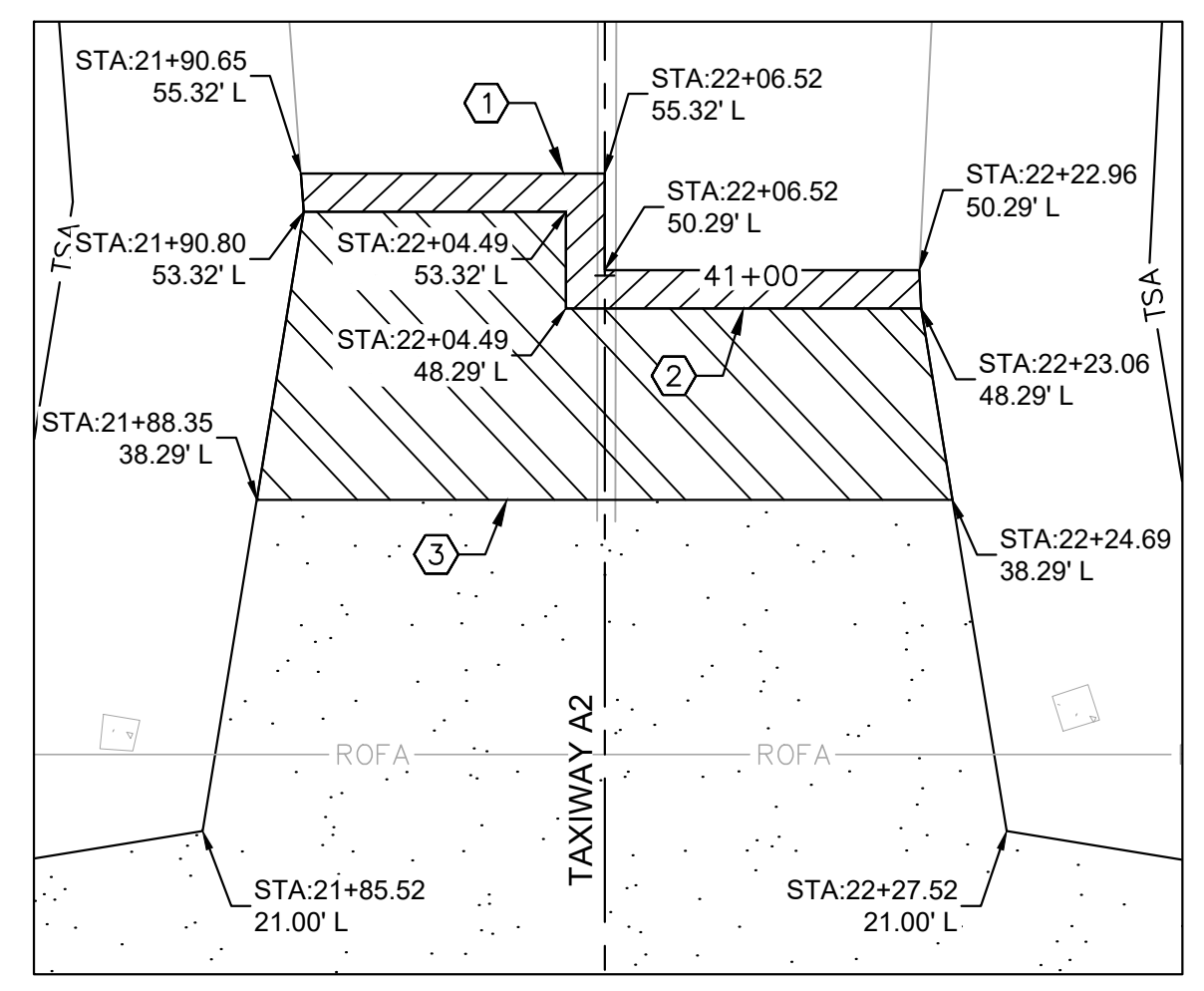
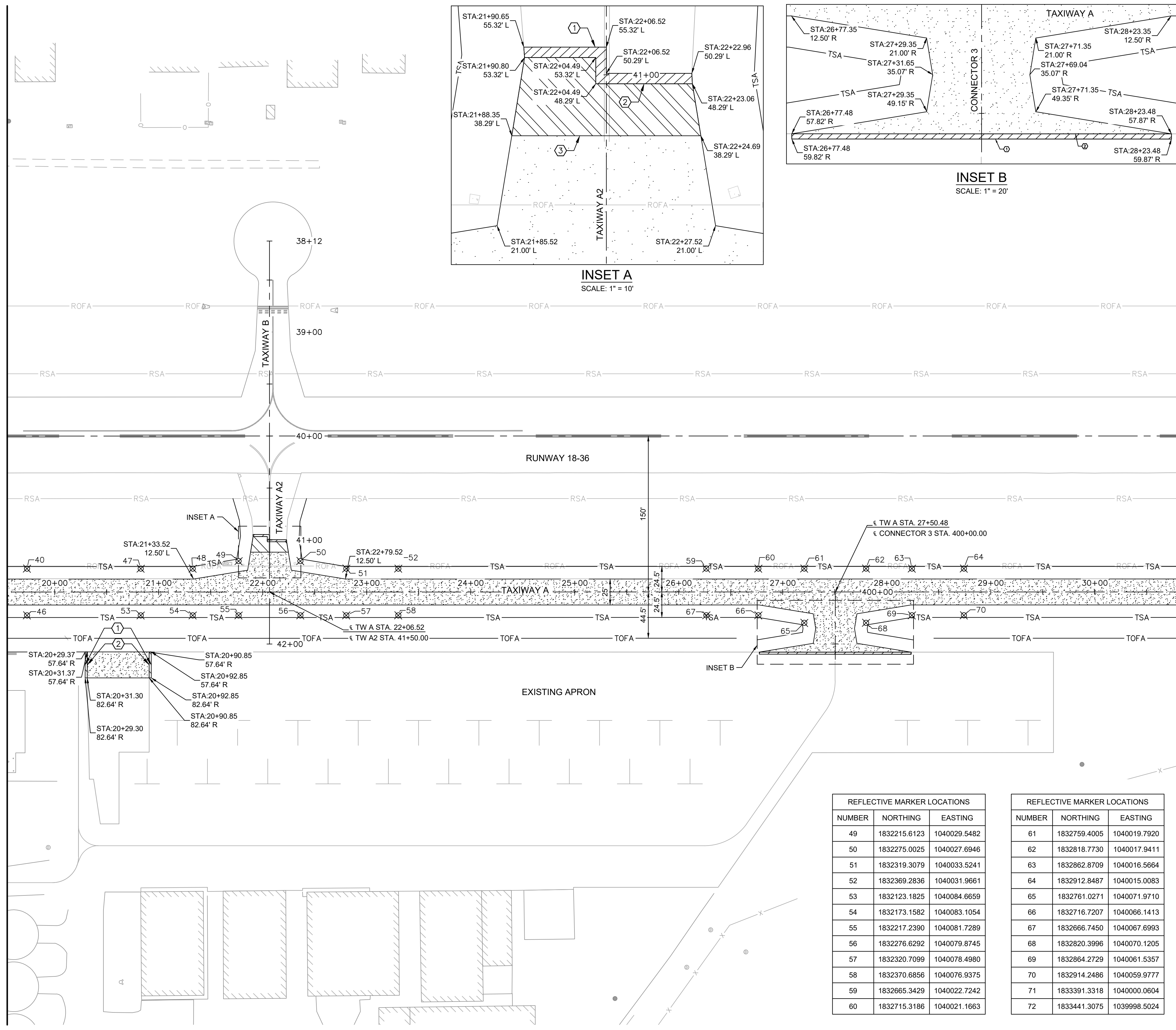
DRAWING NO.: GL-102

PROJECT NUMBER: 168001005

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MATCH LINE STA 218+25.00 - SEE SHEET GL-102

MATCH LINE STA 229+50.00 - SEE SHEET GL-104



LEGEND

- 4 INCH BITUMINOUS PAVEMENT (FULL DEPTH)
- EXISTING TO PROPOSED ASPHALT PAVEMENT TRANSITION, REFER TO DETAIL 2/CT-202
- ASPHALT PAVEMENT TRANSITION WEDGE, REFER TO DETAIL 1/CT-202
- REFLECTIVE MARKER LOCATION

CONSTRUCTION NOTES

- ① MATCH EXISTING PAVEMENT ELEVATION
- ② EXISTING TO PROPOSED ASPHALT PAVEMENT TRANSITION
- ③ ASPHALT PAVEMENT TRANSITION WEDGE

GENERAL SHEET NOTES

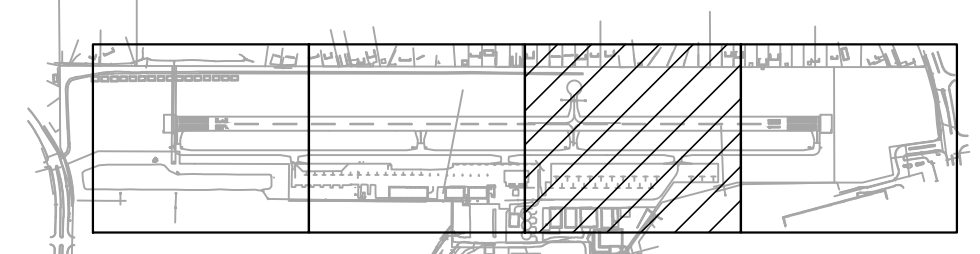
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REFLECTIVE MARKER LOCATIONS

NUMBER	NORTHING	EASTING
49	1832215.6123	1040029.5482
50	1832275.0025	1040027.6946
51	1832319.3079	1040033.5241
52	1832369.2836	1040031.9661
53	1832123.1825	1040084.6659
54	1832173.1582	1040083.1054
55	1832217.2390	1040081.7289
56	1832276.6292	1040079.8745
57	1832320.7099	1040078.4980
58	1832370.6856	1040076.9375
59	1832665.3429	1040022.7242
60	1832715.3186	1040021.1663

REFLECTIVE MARKER LOCATIONS

NUMBER	NORTHING	EASTING
61	1832759.4005	1040019.7920
62	1832818.7730	1040017.9411
63	1832862.8709	1040016.5664
64	1832912.8487	1040015.0083
65	1832761.0271	1040071.9710
66	1832716.7207	1040066.1413
67	1832666.7450	1040067.6993
68	1832820.3996	1040070.1205
69	1832864.2729	1040061.5357
70	1832914.2486	1040059.9777
71	1833391.3318	1040000.0604
72	1833441.3075	1039998.5024



NORTH

GRAPHIC SCALE IN FEET
0 25 50 100

811 Know what's below.
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DRAWN BY:	CHECKED BY:	
JRH	JY	
REV.	DATE	DESCRIPTION
0	11/22/2024	ISSUED FOR BID

TITLE: GEOMETRY PLAN
PROJECT: CONSTRUCT REPLACEMENT PARALLEL TAXIWAY AND REPLACE AIRPORT ROTATING BEACON VILLAGE OF BOLINGBROOK, WILL COUNTY, ILLINOIS

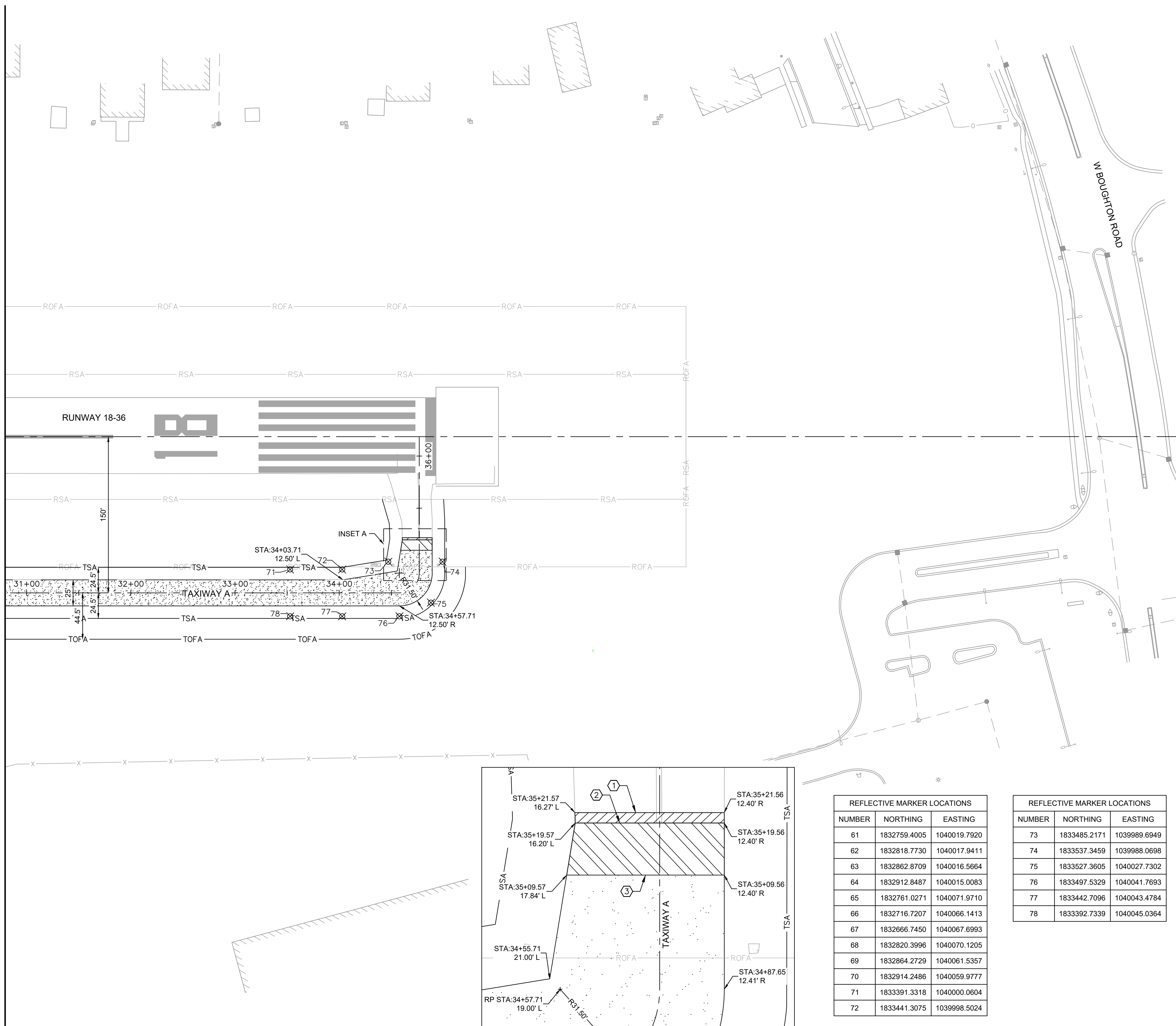
CERTIFICATION:

LUKE M. BURLINGAME
062-076682
OF ILLINOIS
11/22/2024

DRAWING NO. **GL-103**
PROJECT NUMBER: 168001005

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MATCH LINE STA 229+50.00 - SEE SHEET GL-103

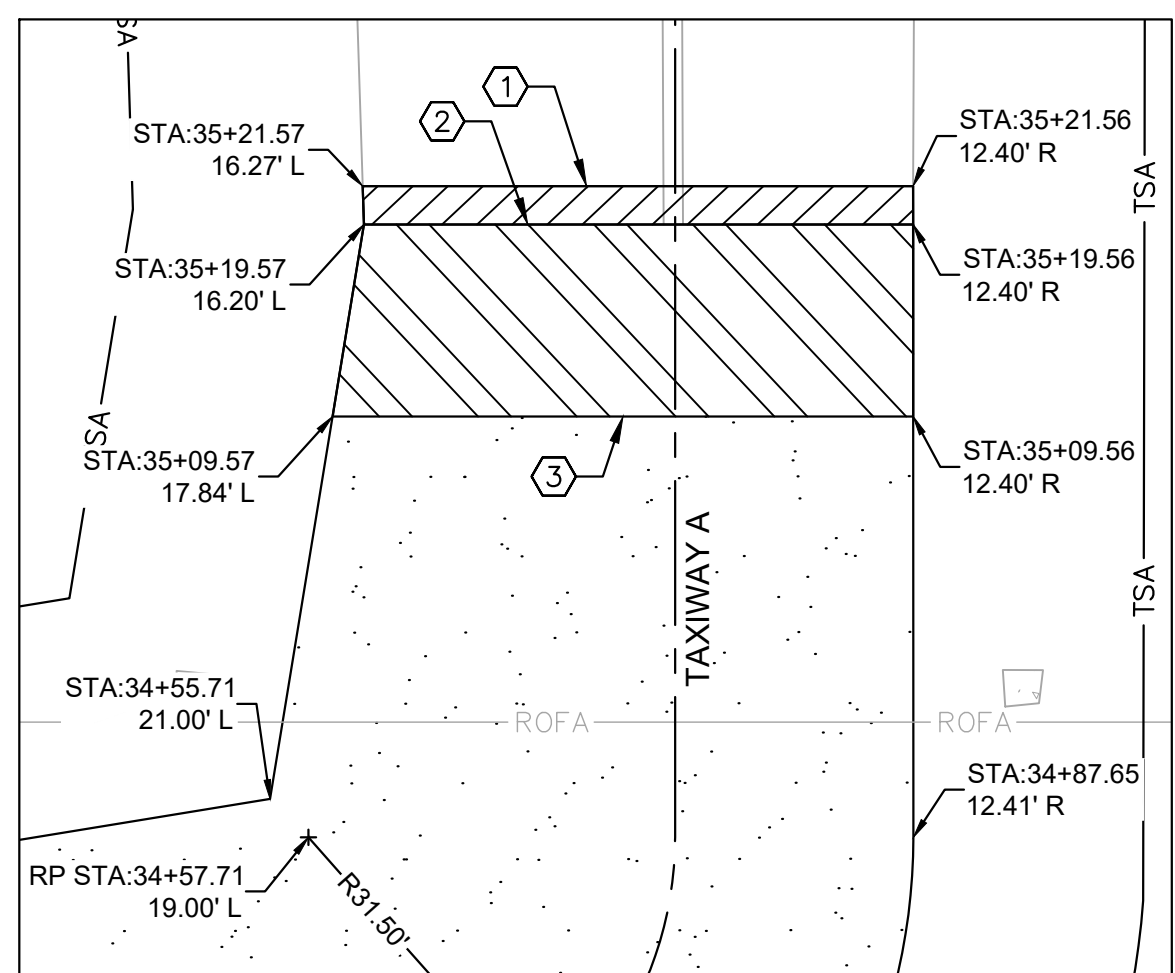


LEGEND

	4 INCH BITUMINOUS PAVEMENT (FULL DEPTH)
	EXISTING TO PROPOSED ASPHALT PAVEMENT TRANSITION, REFER TO DETAIL 2/CT-202
	ASPHALT PAVEMENT TRANSITION WEDGE, REFER TO DETAIL 1/CT-202
XX-X	REFLECTIVE MARKER LOCATION

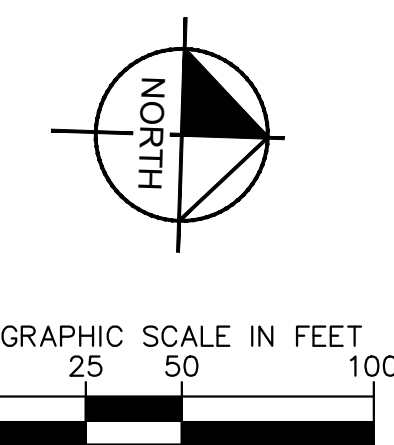
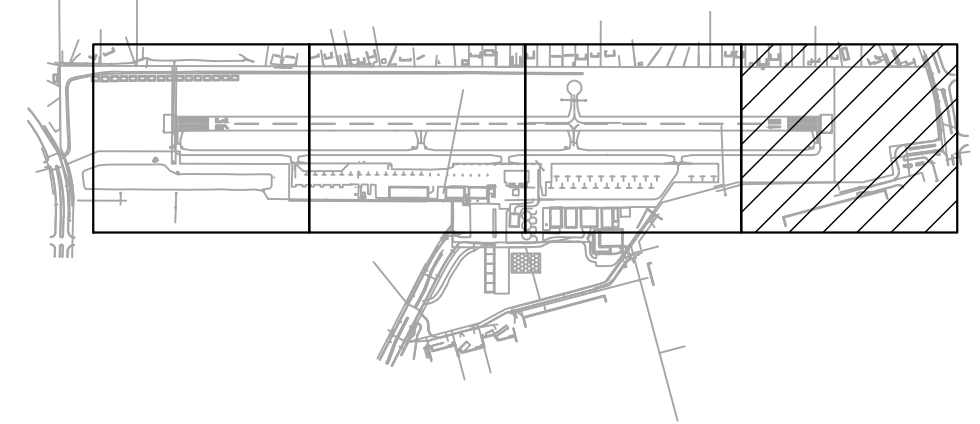
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70	1832914.2486	1040059.9777
71	1833391.3318	1040000.0604
72	1833441.3075	1039998.5024

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NUMBER	NORTHING	EASTING
73	1833485.2171	1039989.6949
74	1833537.3459	1039988.0698
75	1833527.3605	1040027.7302
76	1833497.5329	1040041.7693
77	1833442.7096	1040043.4784
78	1833392.7339	1040045.0364



4201 WINFIELD ROAD
 SUITE 600
 WARRENVILLE, IL 60555
 TEL (630) 487-5550



DATE:	11/22/2024	SCALE:	1" = 50'
DRAWN BY:	JRH	CHECKED BY:	JY
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0	11/22/2024	ISSUED FOR BID	




TITLE: GEOMETRY PLAN
PROJECT: CONSTRUCT REPLACEMENT PARALLEL TAXIWAY AND REPLACE AIRPORT ROTATING BEACON VILLAGE OF BOLINGBROOK BOLINGBROOK, WILL COUNTY, ILLINOIS



DRAWING NO. **GL-104**
 PROJECT NUMBER: 168001005

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LEGEND

-  4 INCH BITUMINOUS PAVEMENT
-  EXISTING TO PROPOSED ASPHALT PAVEMENT TRANSITION, REFER TO DETAIL 2/CT-202
-  ASPHALT PAVEMENT TRANSITION WEDGE, REFER TO DETAIL 1/CT-202

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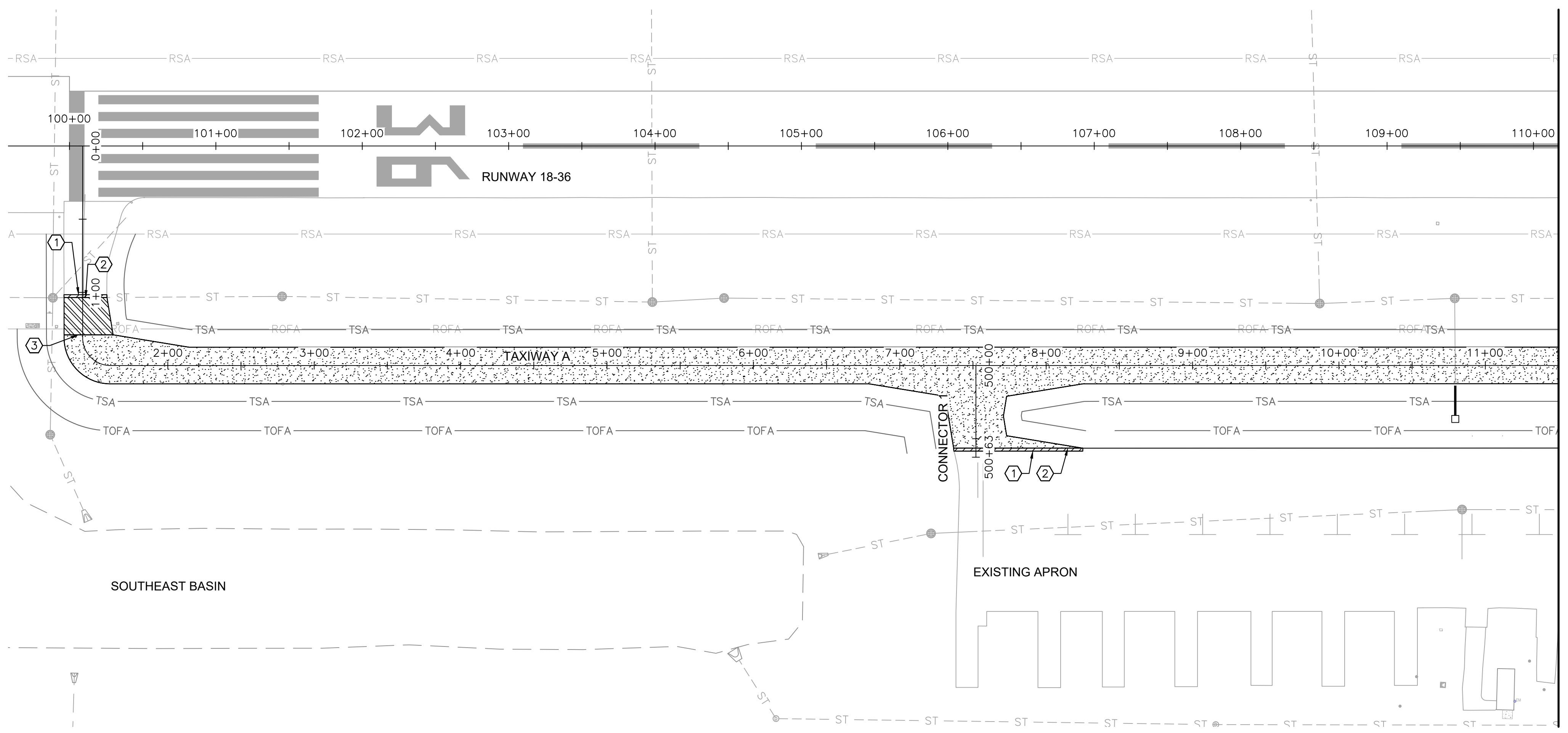
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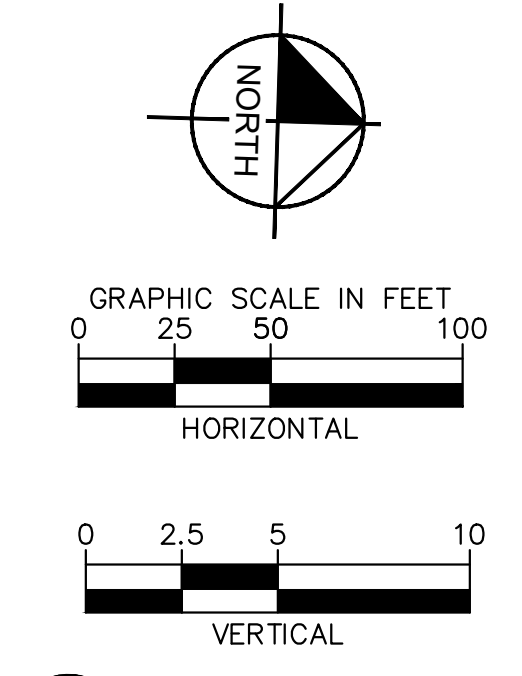
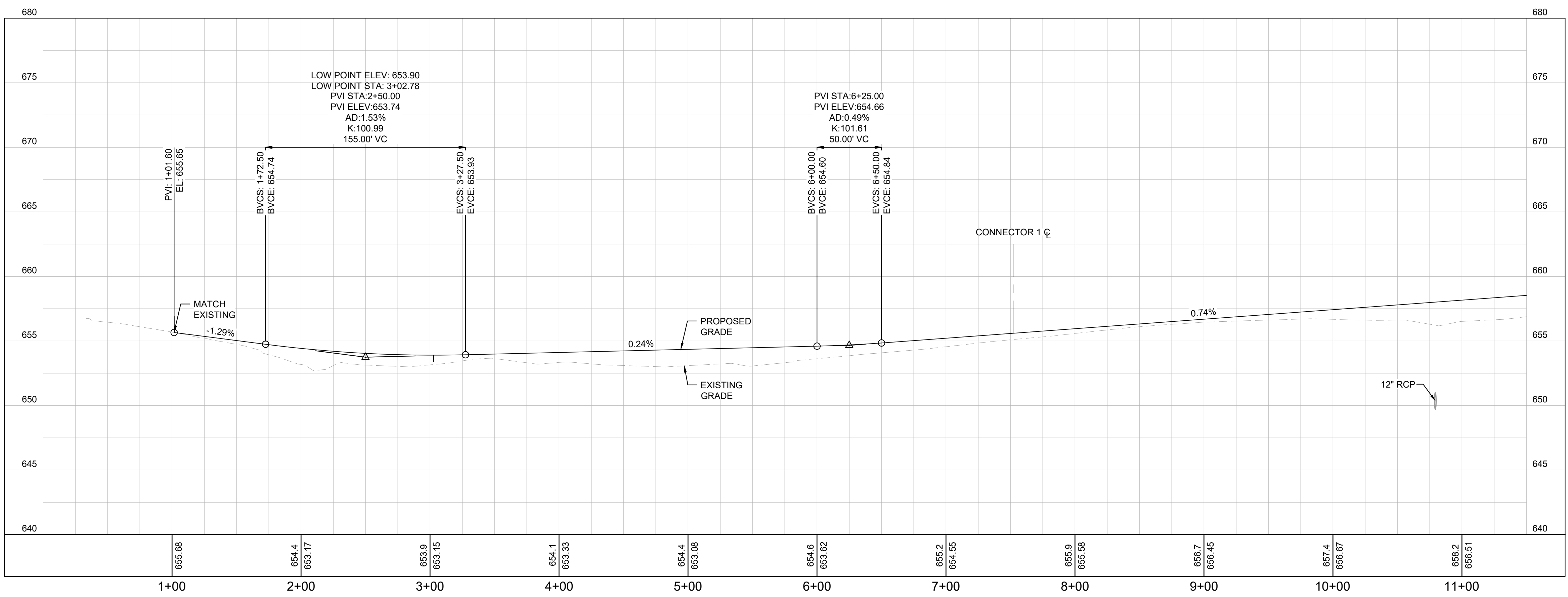
TITLE: PLAN AND PROFILE - TAXIWAY A
PROJECT: CONSTRUCT REPLACEMENT PARALLEL TAXIWAY AND REPLACE AIRPORT ROTATING BEACON VILLAGE OF BOLINGBROOK, WILL COUNTY, ILLINOIS



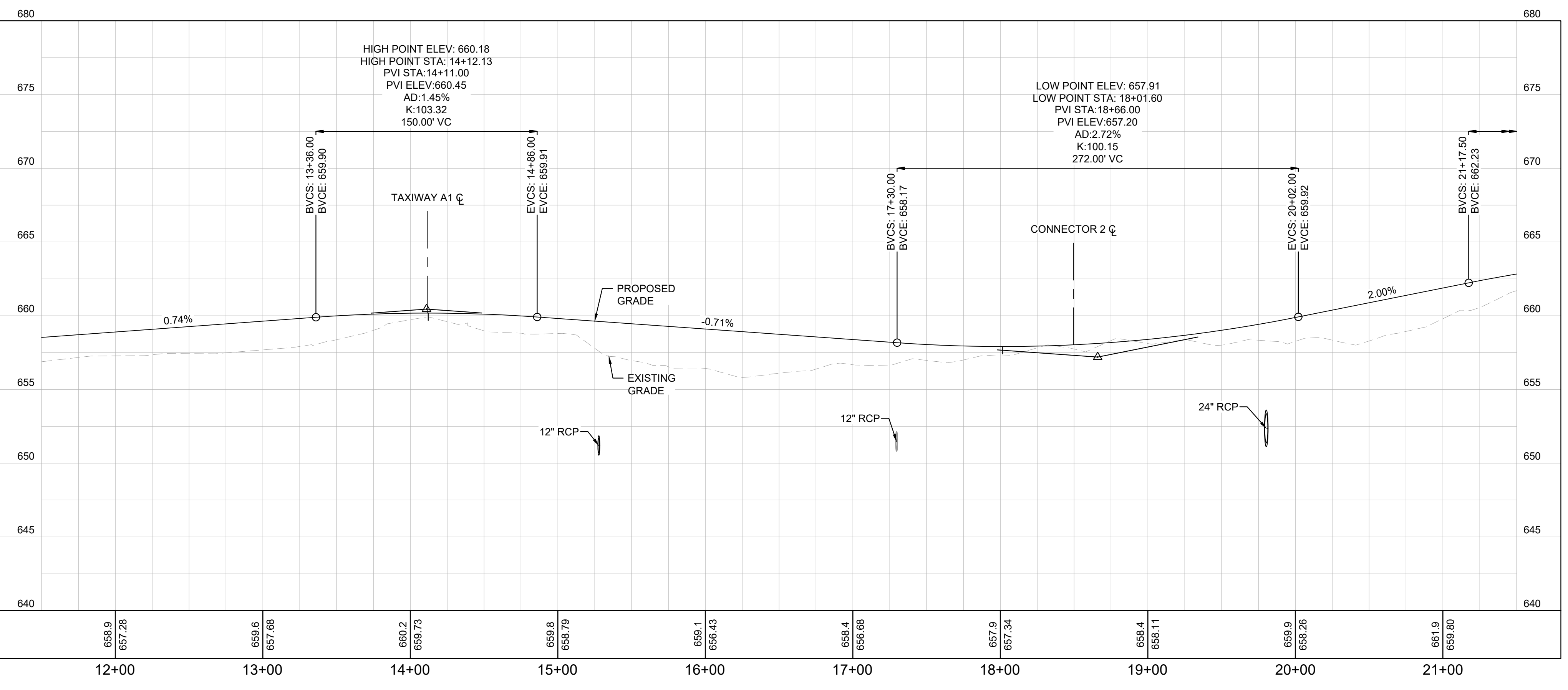
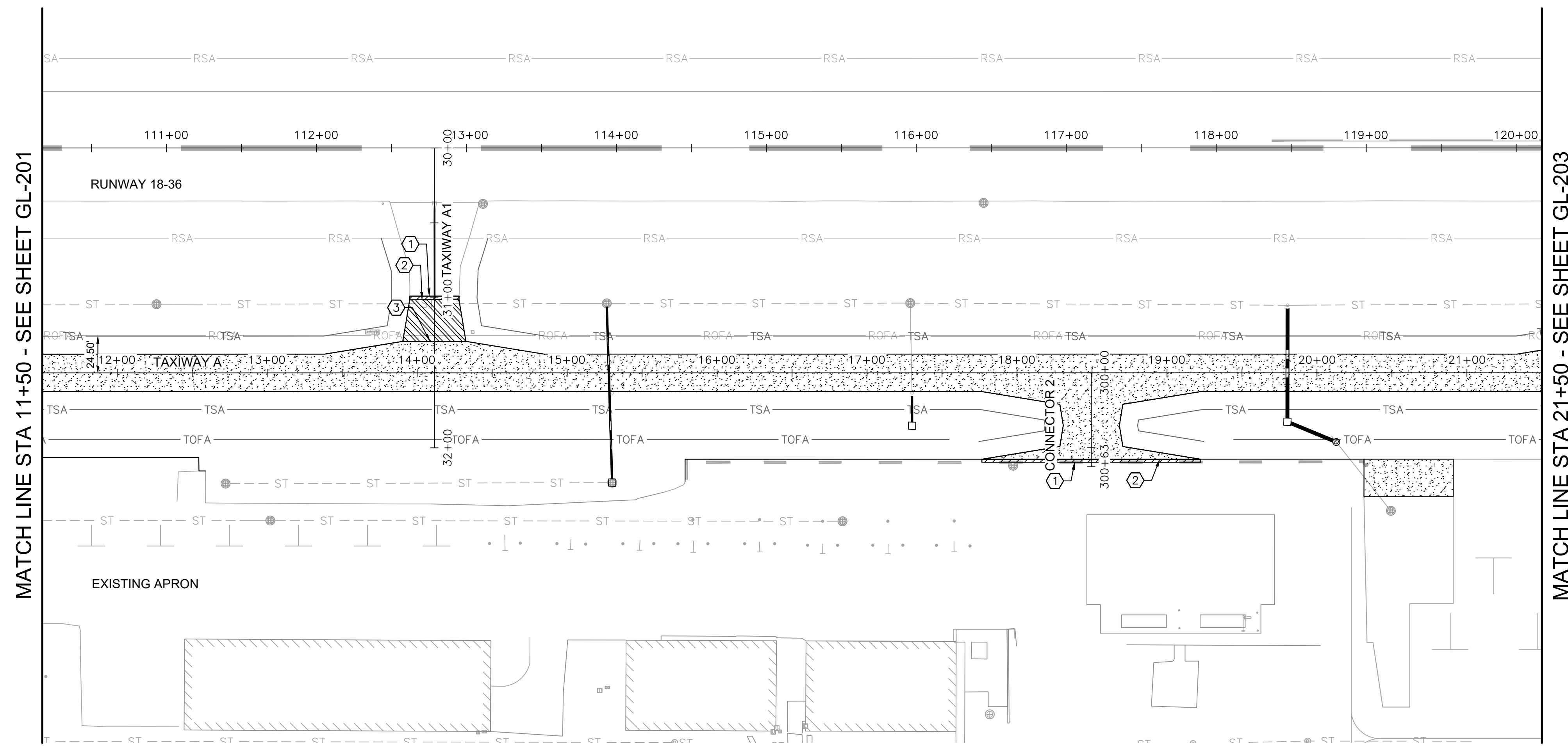
DRAWING NO. **GL-201**
PROJECT NUMBER: 168001005



MATCH LINE STA 11+50 - SEE SHEET GL-202



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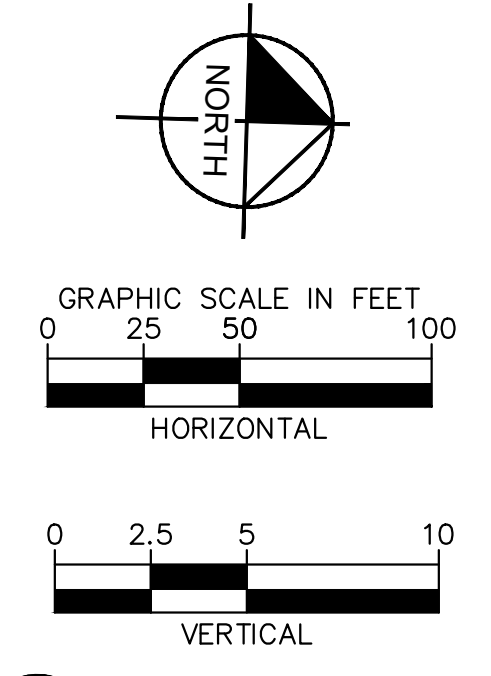
LEGEND

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- ASPHALT PAVEMENT TRANSITION WEDGE, REFER TO DETAIL 1/CT-202

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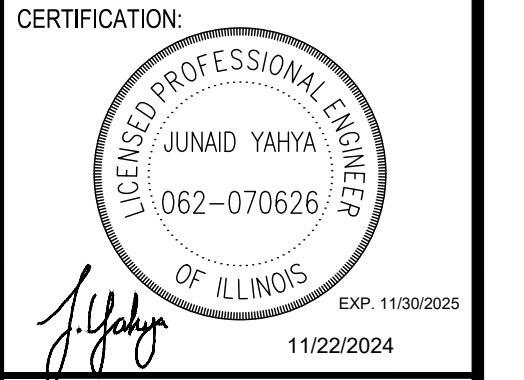


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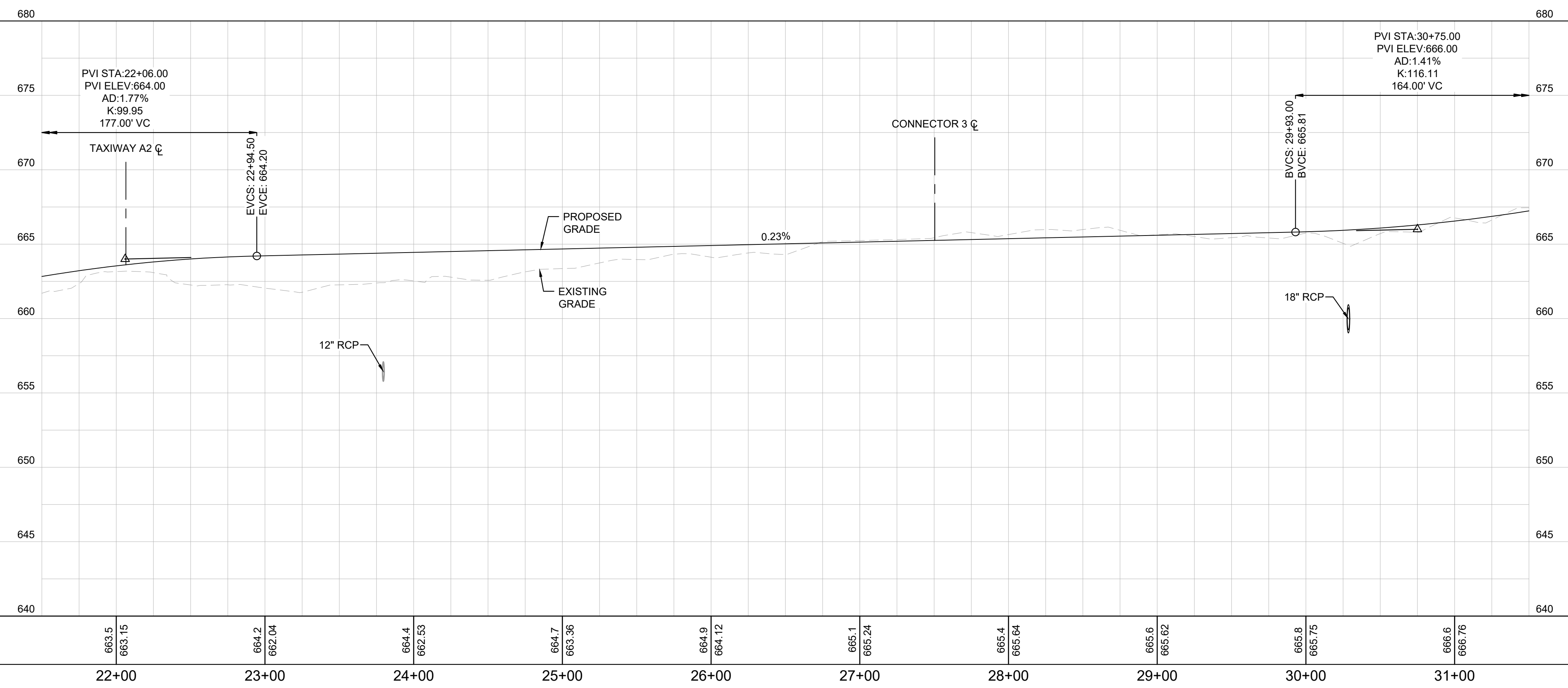
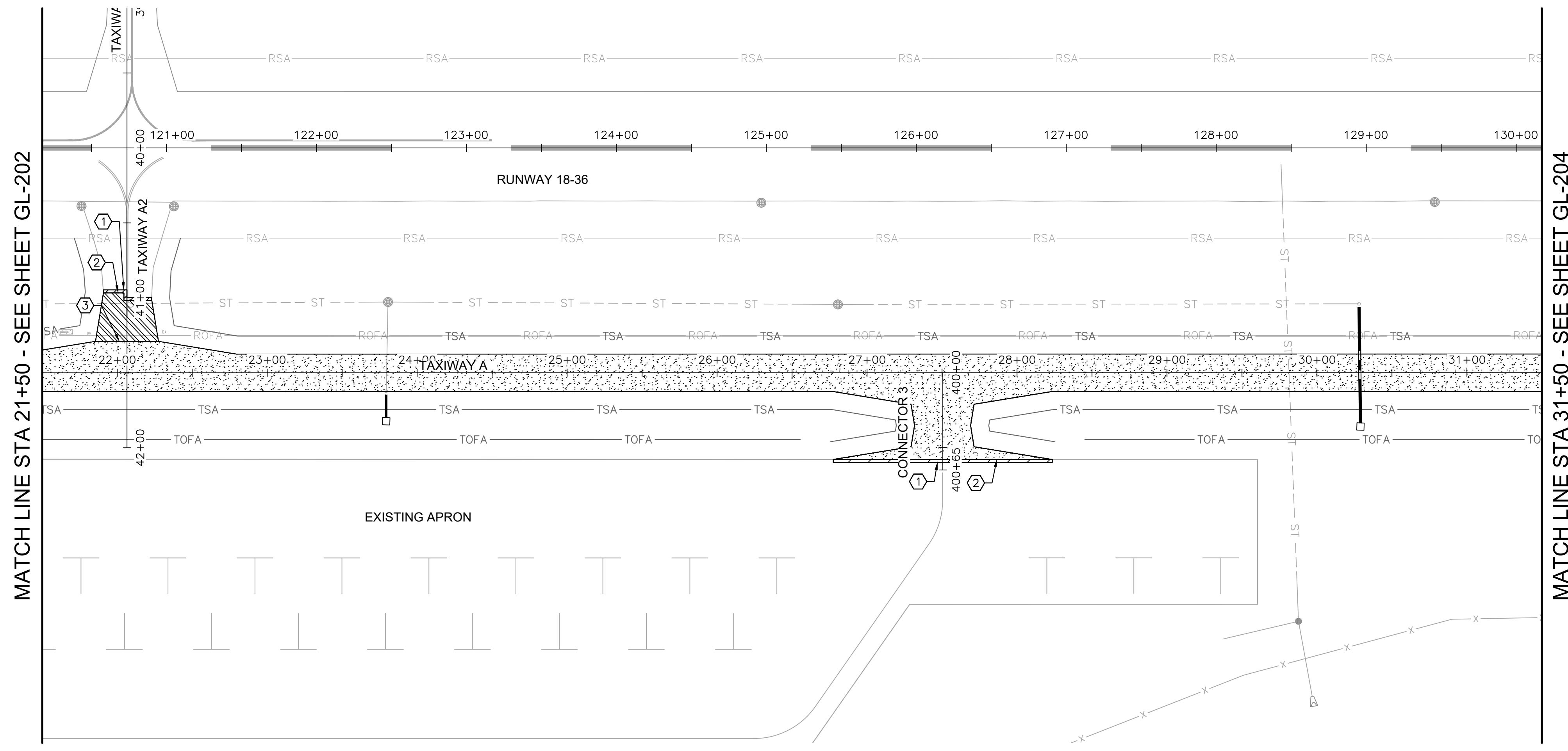
TITLE: PLAN AND PROFILE - TAXIWAY A
PROJECT: CONSTRUCT REPLACEMENT PARALLEL TAXIWAY AND REPLACE AIRPORT ROTATING BEACON VILLAGE OF BOLINGBROOK, WILL COUNTY, ILLINOIS



DRAWING NO. **GL-202**

PROJECT NUMBER: 168001005

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LEGEND

- 4 INCH BITUMINOUS PAVEMENT
- EXISTING TO PROPOSED ASPHALT PAVEMENT TRANSITION, REFER TO DETAIL 2/CT-202
- ASPHALT PAVEMENT TRANSITION WEDGE, REFER TO DETAIL 1/CT-202

CONSTRUCTION NOTES

- ① MATCH EXISTING PAVEMENT ELEVATION
- ② EXISTING TO PROPOSED ASPHALT PAVEMENT TRANSITION
- ③ ASPHALT PAVEMENT TRANSITION WEDGE

1. REFER TO TYPICAL SECTIONS FOR PAVEMENT STRUCTURAL DETAILS ON SHEETS CT-201 AND CT-202.
2. EXISTING INFORMATION SHOWN HEREIN IS REPRESENTATIVE AND HAS BEEN USED BY THE ENGINEER AS A BASIS OF DESIGN. THE CONTRACTOR SHALL VERIFY AND MATCH EXISTING ELEVATIONS AND GRADES WHERE APPLICABLE AND NOTIFY THE ENGINEER IMMEDIATELY OF ANY DISCREPANCIES BETWEEN THE INFORMATION SHOWN HEREIN AND FOUND IN THE FIELD.
3. CONTRACTOR SHALL LOCATE, FLAG, AND PROTECT ALL EXISTING FACILITIES, UNDERGROUND UTILITIES, STORM SEWER PIPES AND STRUCTURES. DAMAGE TO ANY INFRASTRUCTURE ON OR OFF AIRPORT PROPERTY, AS DETERMINED BY THE ENGINEER, SHALL BE IMMEDIATELY REPAIRED OR REPLACED BY THE CONTRACTOR, TO THE OWNER'S APPROVAL, AT NO ADDITIONAL COST TO THE CONTRACT.
4. SURFACE DAMAGE OR CRACKING OF EXISTING BITUMINOUS/CONCRETE PAVEMENTS TO REMAIN OR BUILDING FOUNDATIONS CAUSED BY THE CONTRACTOR, AS DETERMINED BY THE ENGINEER, SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR, TO THE OWNER'S APPROVAL, AT NO ADDITIONAL COST TO THE CONTRACT.

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TITLE: PLAN AND PROFILE - TAXIWAY A

PROJECT: CONSTRUCT REPLACEMENT PARALLEL TAXIWAY AND REPLACE AIRPORT ROTATING BEACON VILLAGE OF BOLINGBROOK, WILL COUNTY, ILLINOIS

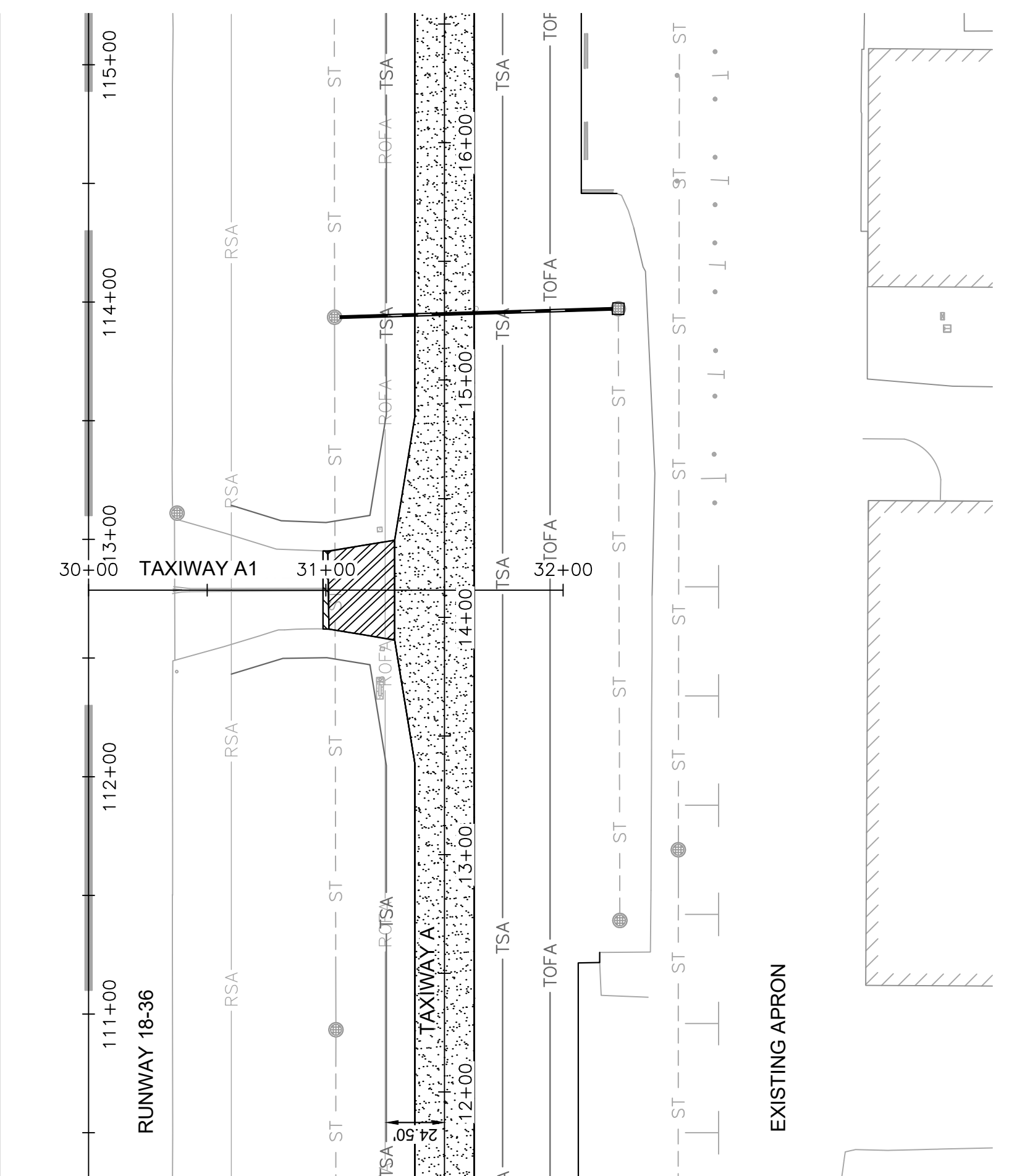
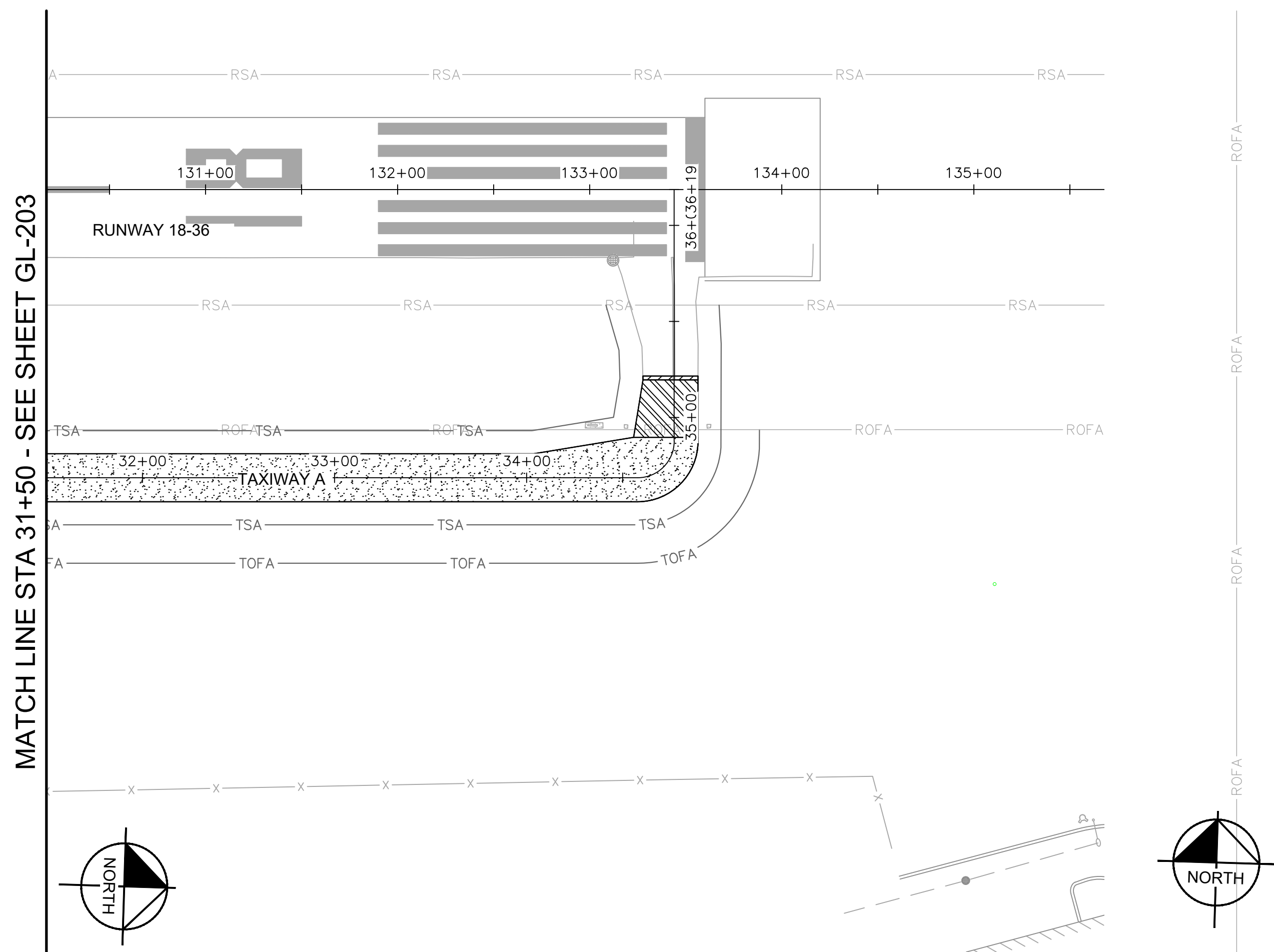
CERTIFICATION:

J. Yahya
11/22/2024

DRAWING NO. **GL-203**

PROJECT NUMBER: 168001005

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LEGEND

	4 INCH BITUMINOUS PAVEMENT
	EXISTING TO PROPOSED ASPHALT PAVEMENT TRANSITION, REFER TO DETAIL 2/CT-202
	ASPHALT PAVEMENT TRANSITION WEDGE, REFER TO DETAIL 1/CT-202

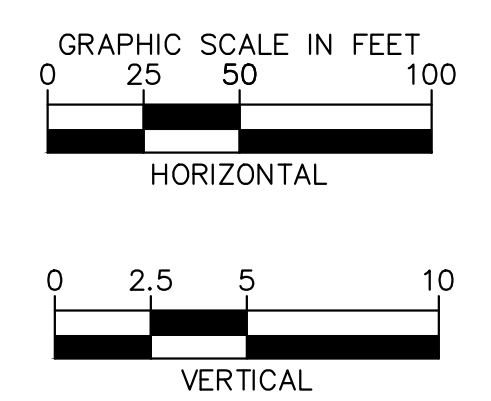
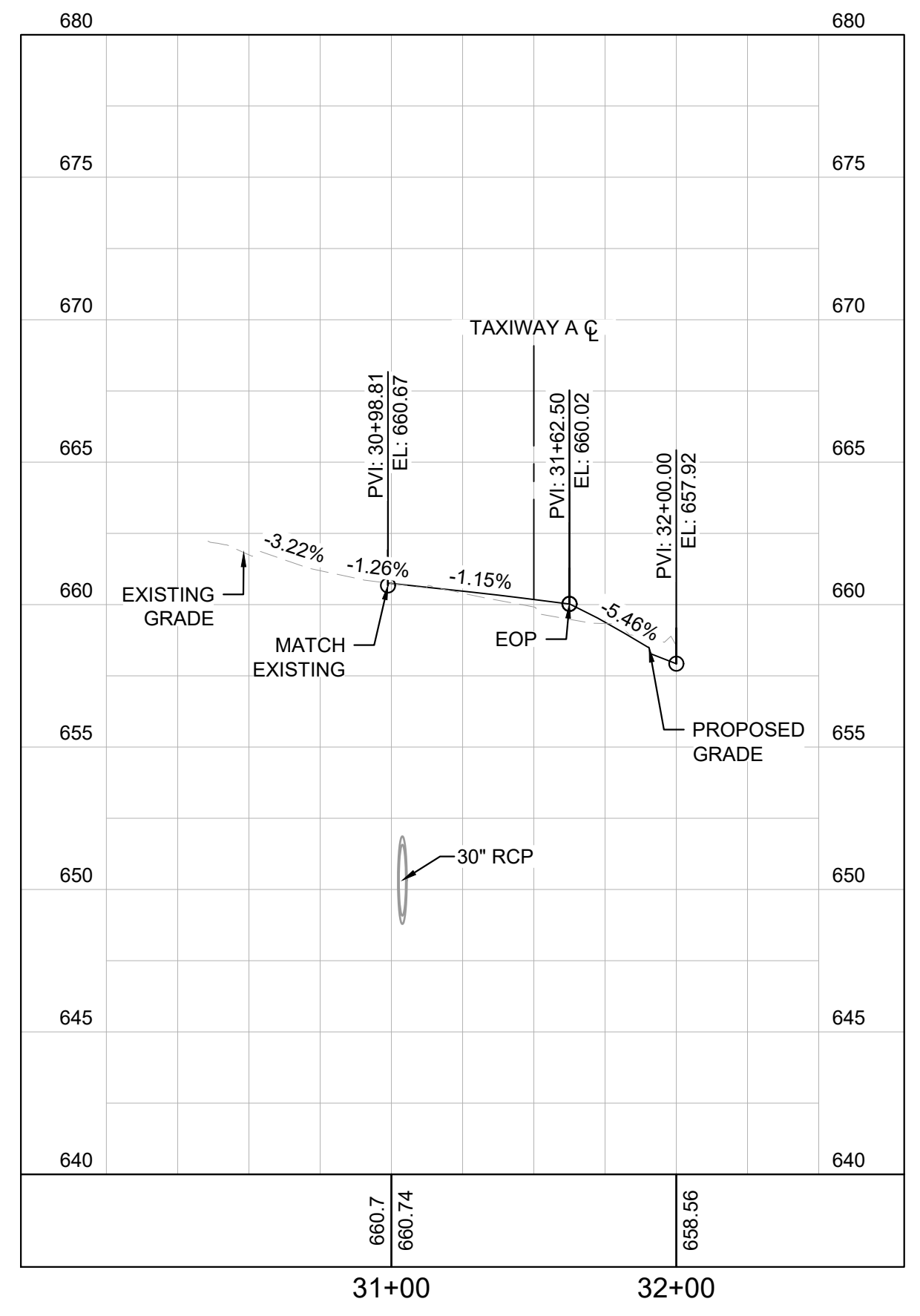
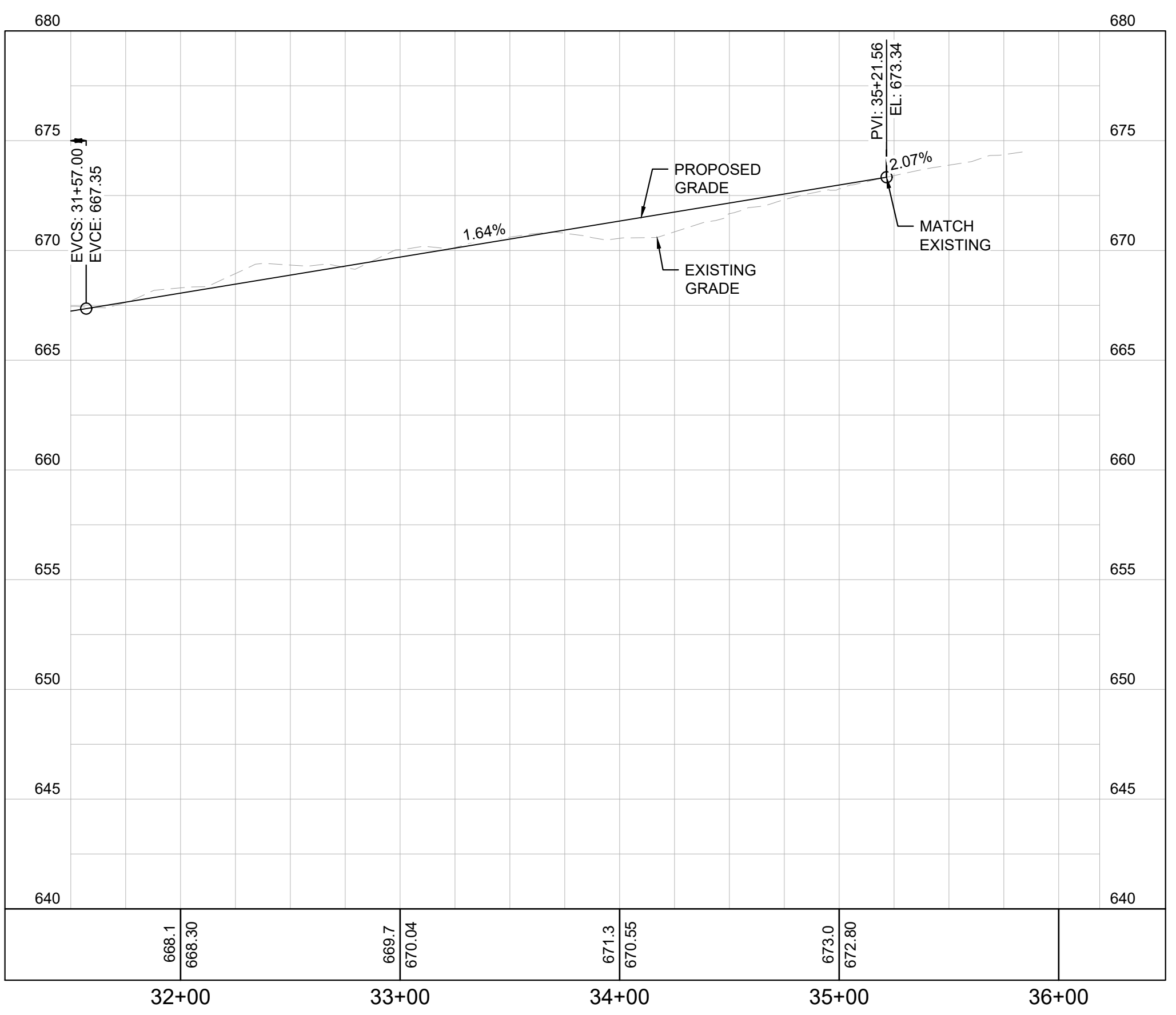
- GENERAL SHEET NOTES**
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TITLE: PLAN AND PROFILE - TAXIWAY A AND TAXIWAY A1

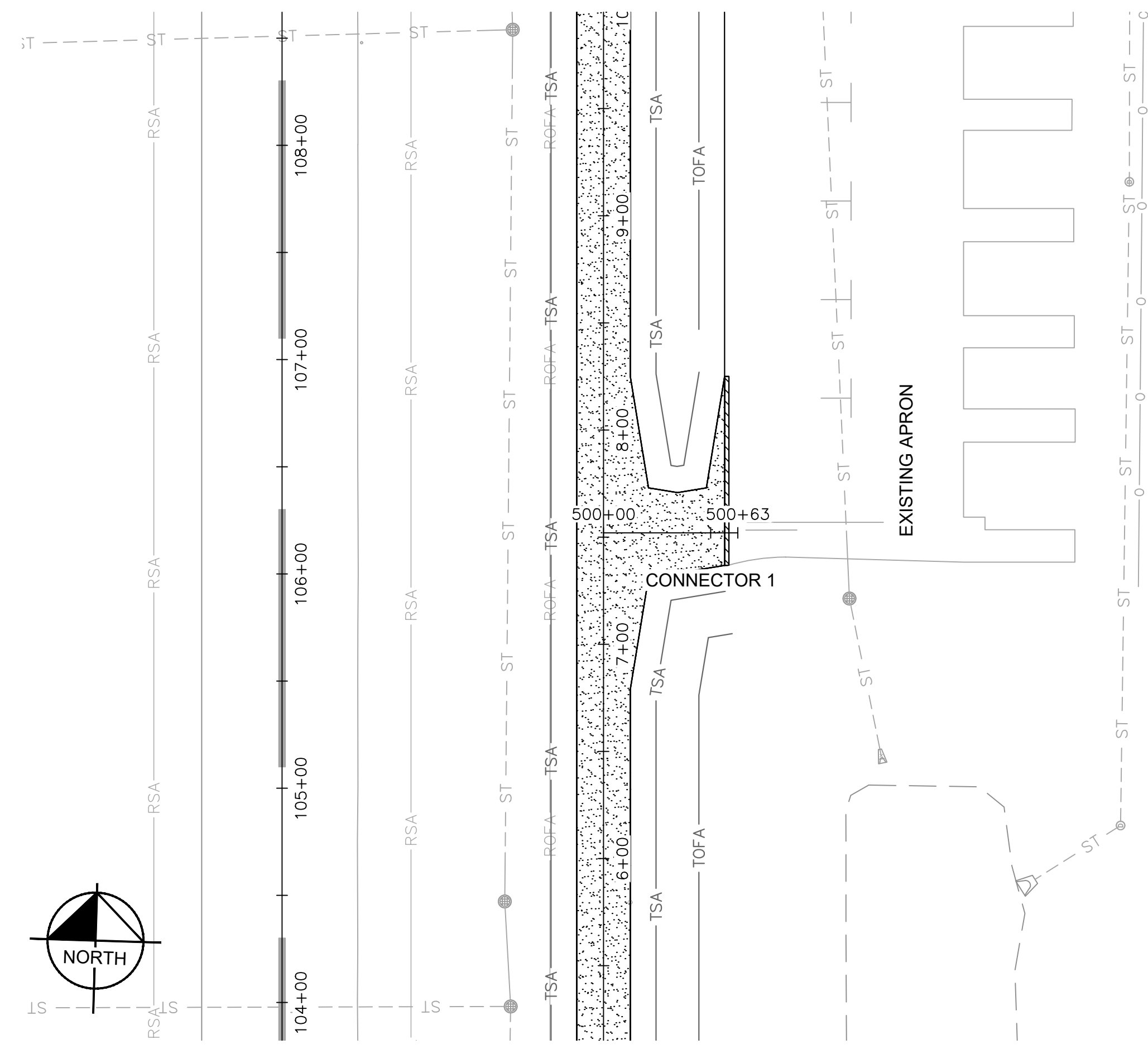
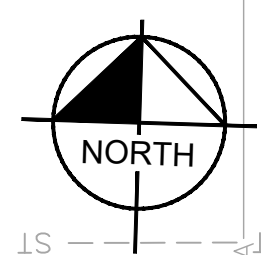
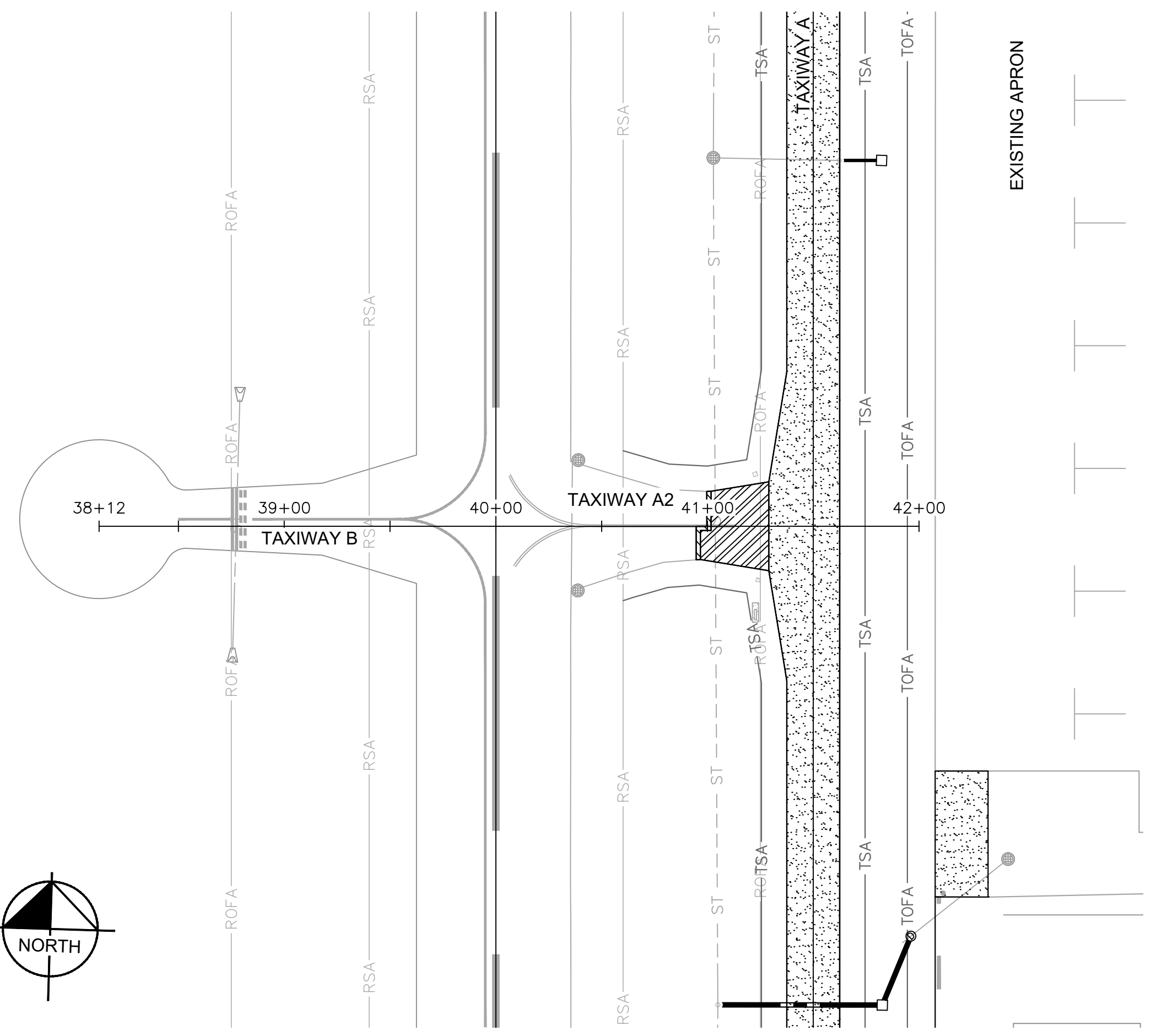
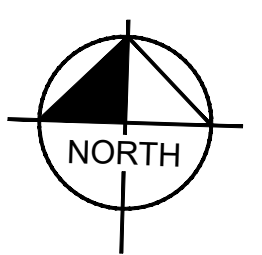
PROJECT: CONSTRUCT REPLACEMENT PARALLEL TAXIWAY AND REPLACE AIRPORT ROTATING BEACON VILLAGE OF BOLINGBROOK, WILL COUNTY, ILLINOIS



DRAWING NO.: GL-204

PROJECT NUMBER: 168001005

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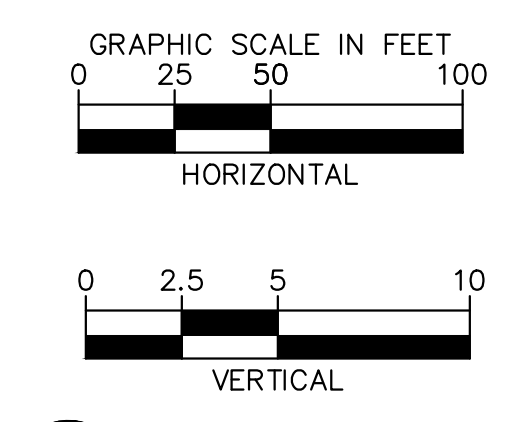
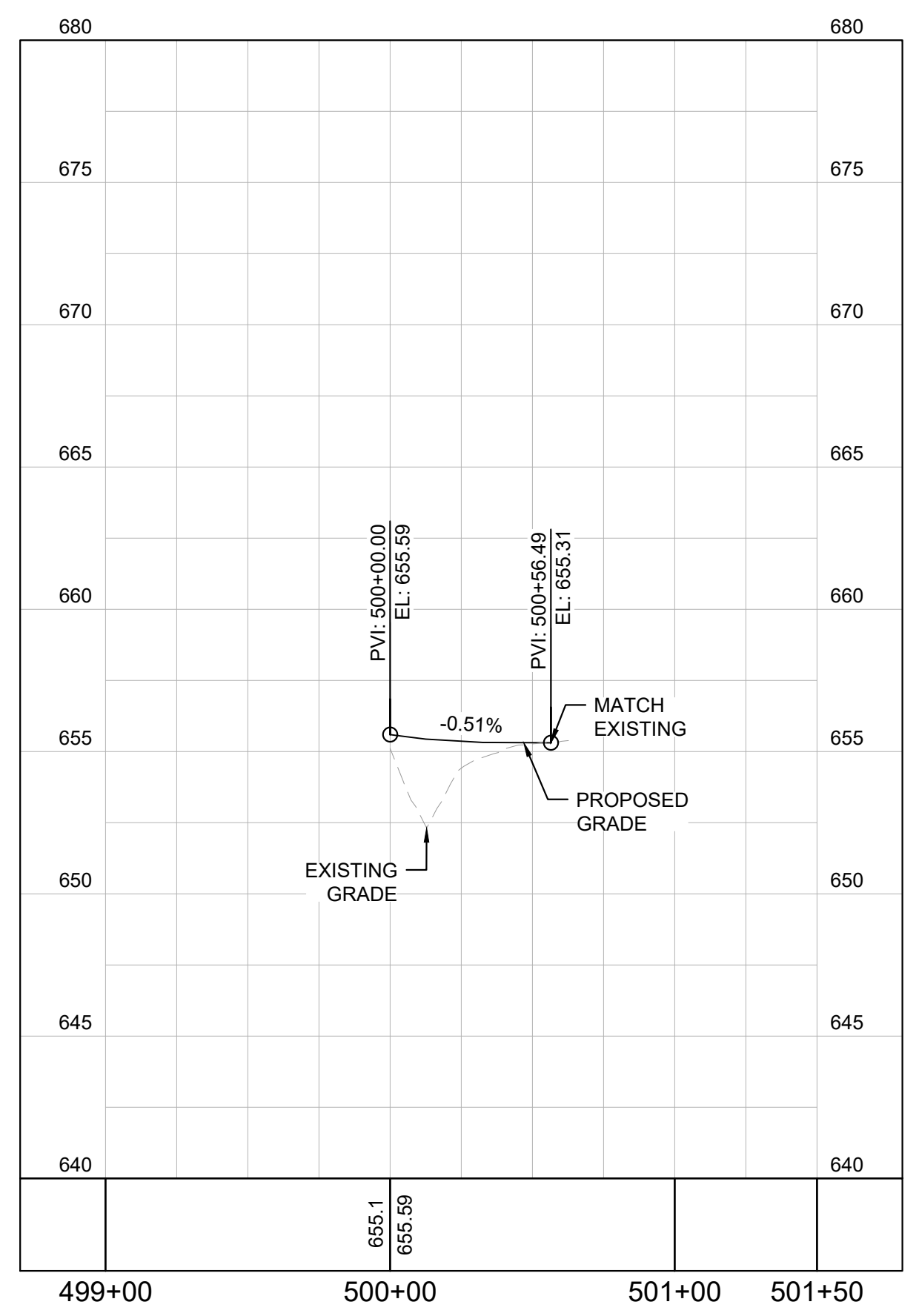
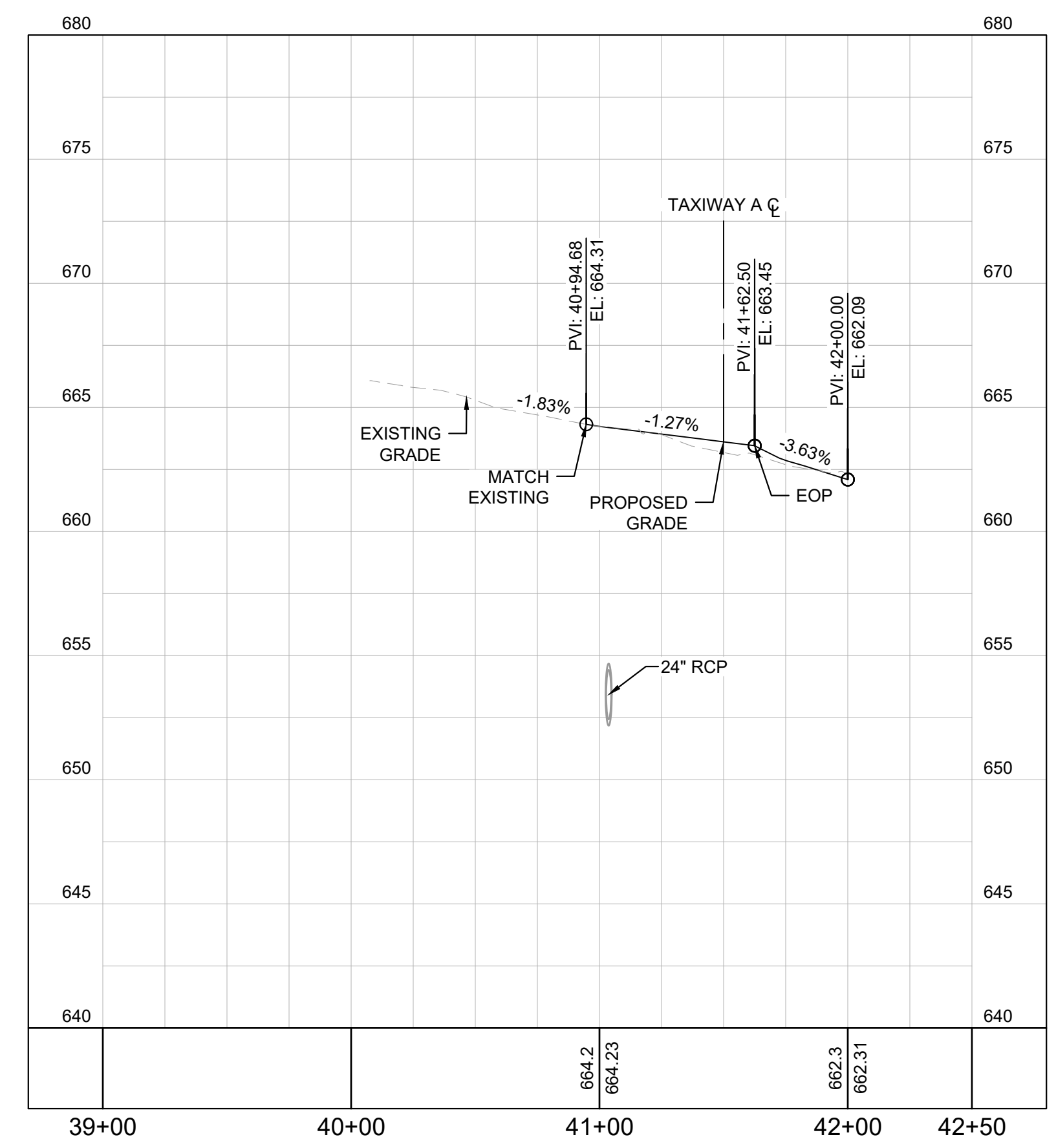


LEGEND

- 4 INCH BITUMINOUS PAVEMENT
- EXISTING TO PROPOSED ASPHALT PAVEMENT TRANSITION, REFER TO DETAIL 2/CT-202
- ASPHALT PAVEMENT TRANSITION WEDGE, REFER TO DETAIL 1/CT-202

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TITLE: PLAN AND PROFILE - TAXIWAY A2 AND CONNECTOR 1

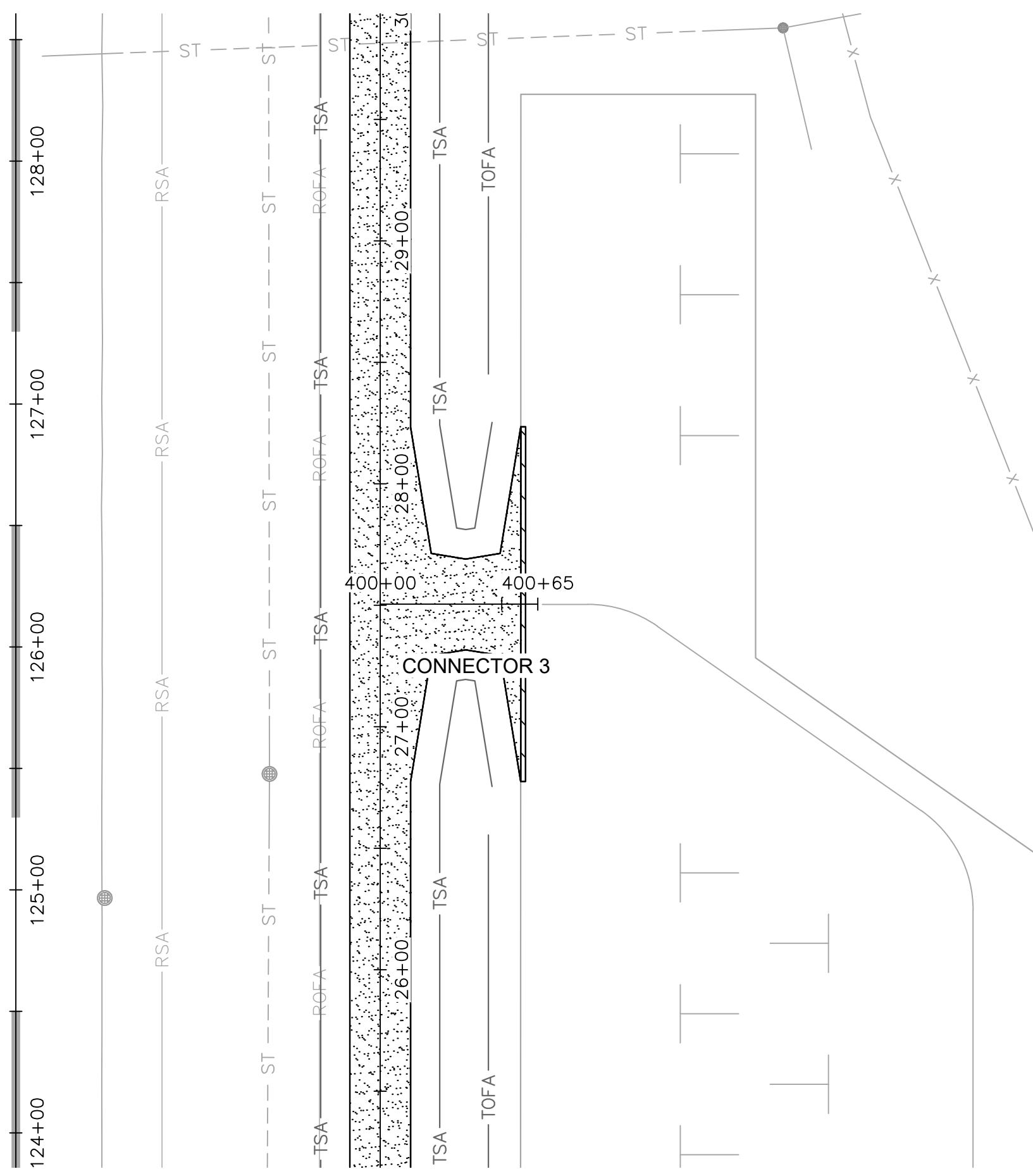
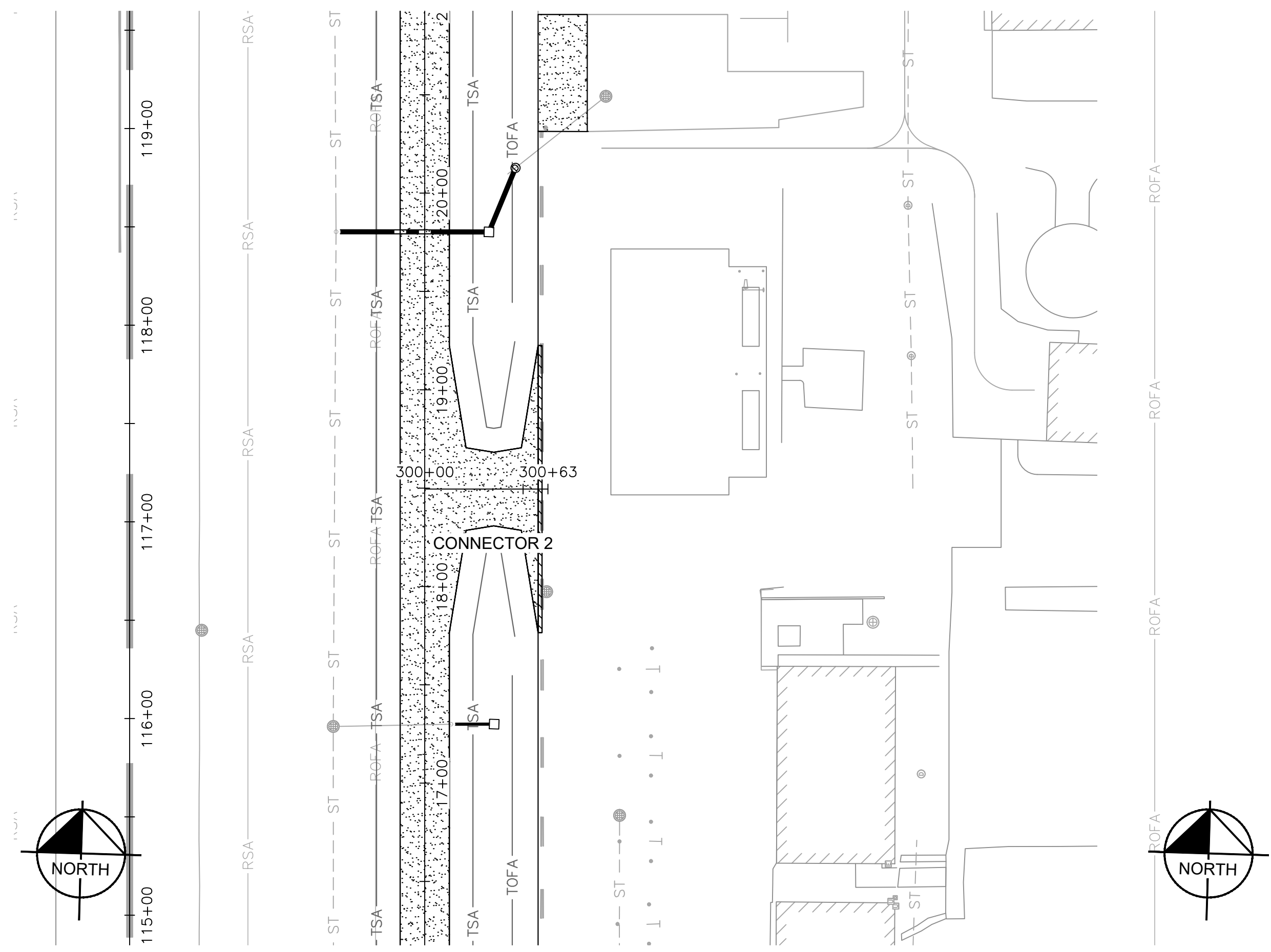
PROJECT: CONSTRUCT REPLACEMENT PARALLEL TAXIWAY AND REPLACE AIRPORT ROTATING BEACON VILLAGE OF BOLINGBROOK BOLINGBROOK, WILL COUNTY, ILLINOIS



DRAWING NO. **GL-205**

PROJECT NUMBER: 168001005

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LEGEND

	4 INCH BITUMINOUS PAVEMENT
	EXISTING TO PROPOSED ASPHALT PAVEMENT TRANSITION, REFER TO DETAIL 2/CT-202
	ASPHALT PAVEMENT TRANSITION WEDGE, REFER TO DETAIL 1/CT-202

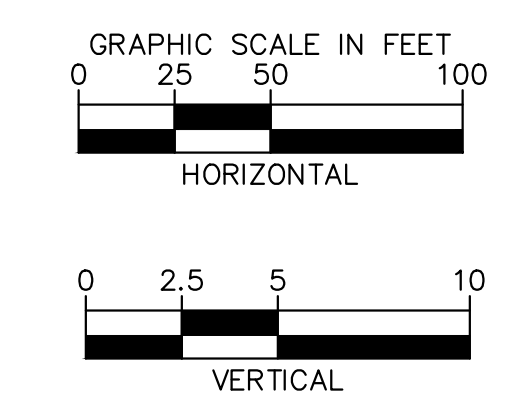
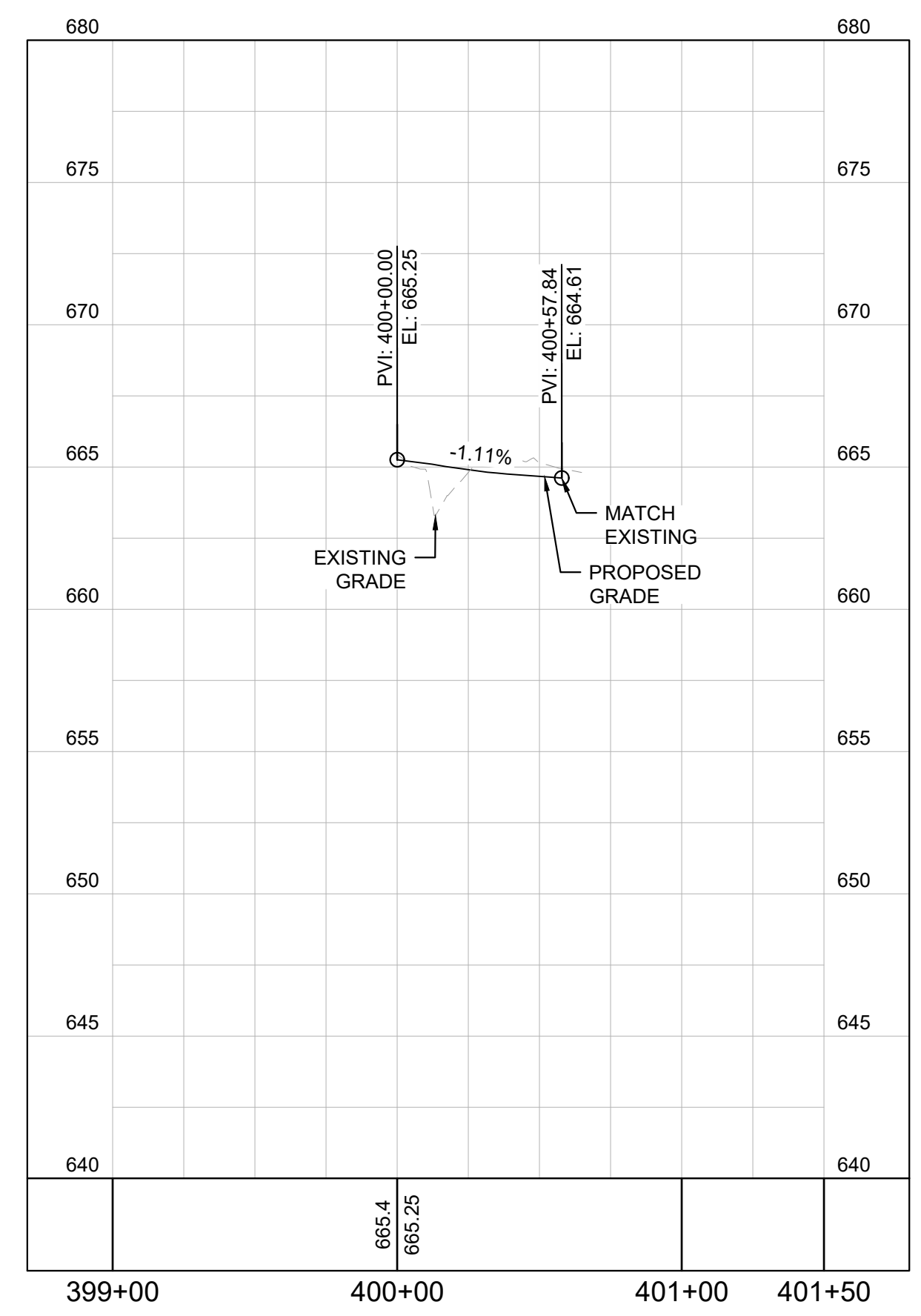
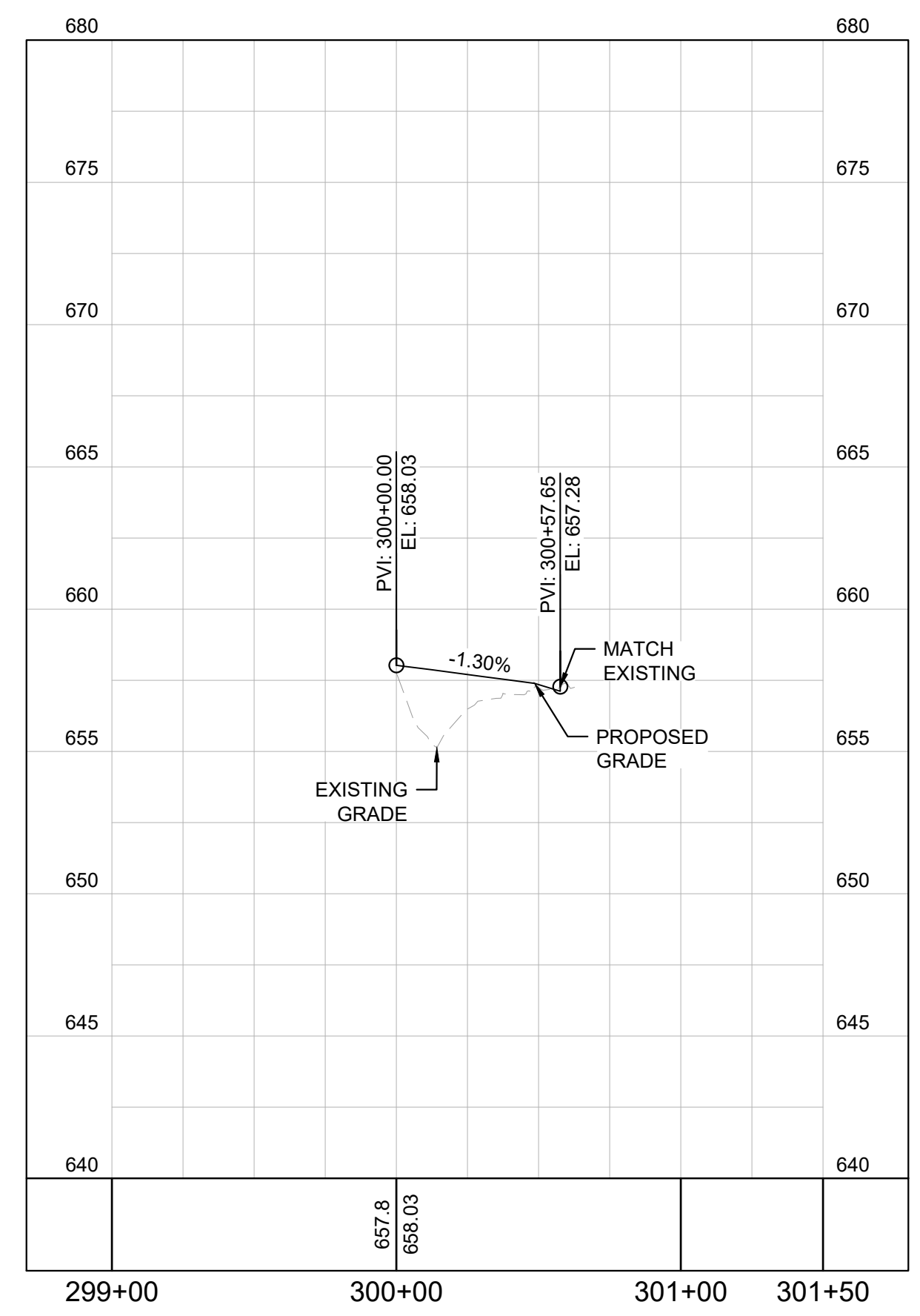
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TITLE: PLAN AND PROFILE - CONNECTOR 2 & CONNECTOR 3

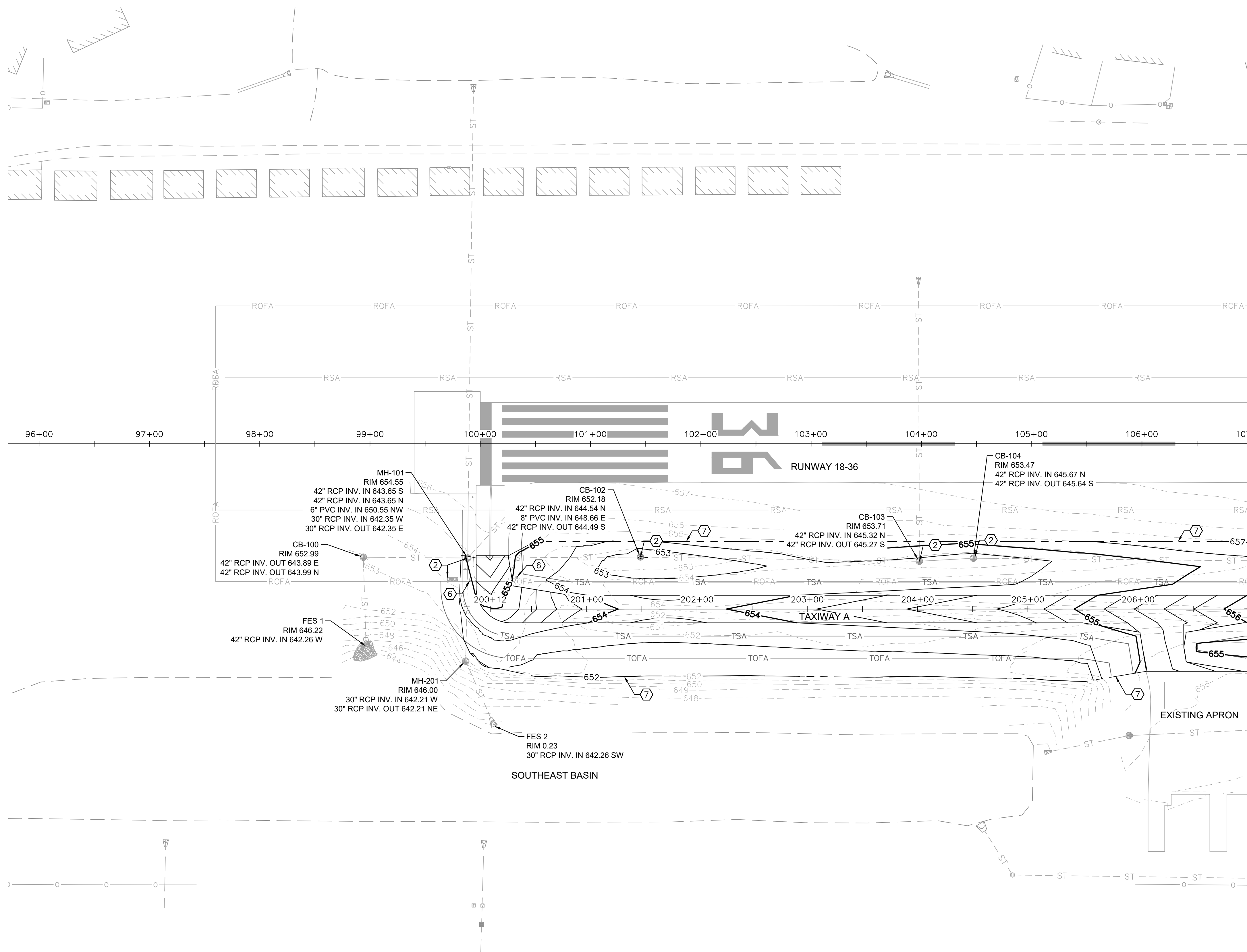
PROJECT: CONSTRUCT REPLACEMENT PARALLEL TAXIWAY AND REPLACE AIRPORT ROTATING BEACON VILLAGE OF BOLINGBROOK, WILL COUNTY, ILLINOIS



DRAWING NO. **GL-206**

PROJECT NUMBER: 168001005

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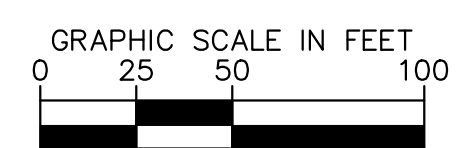
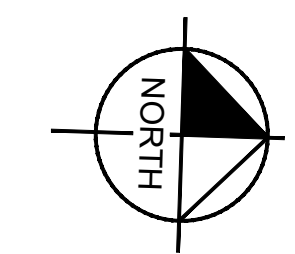
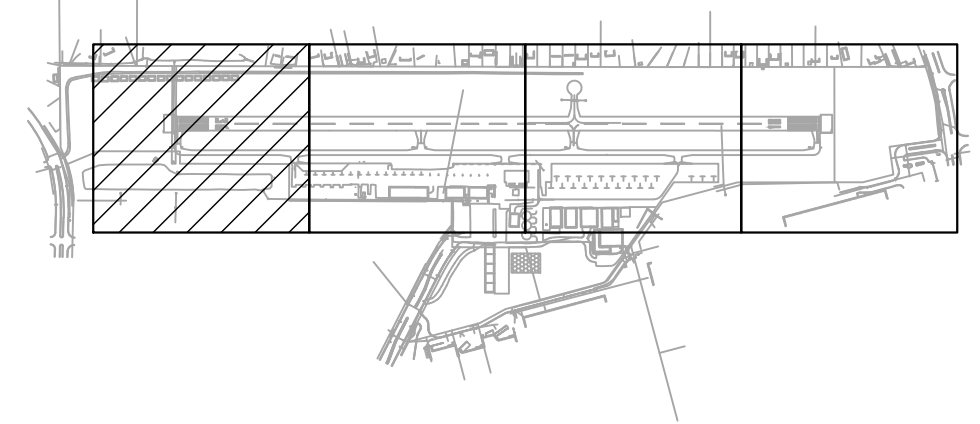


- ### LEGEND
- 657 — EXISTING CONTOUR (1' INTERVALS)
 - 657 — PROPOSED CONTOUR (1' INTERVALS)
 - ST — EXISTING STORM SEWER PIPE
 - ST --- PROPOSED STORM SEWER PIPE
 - FLOW LINE
 - ⊕ EXISTING STORM SEWER STRUCTURE
 - ⊙ PROPOSED STORM SEWER STRUCTURE
 - × 656.15 SPOT ELEVATION
- ① CONNECT PROPOSED STORM SEWER TO EXISTING PIPE
 - ② PROTECT EXISTING FACILITY IN PLACE
 - ③ LIMITS OF GRADING
 - ④ FURNISH AND INSTALL MANHOLE, PER DETAIL SHEET CG-501
 - ⑤ ADJUST STRUCTURE PER ADJUSTMENT TABLE ON SHEET CG-201
 - ⑥ ADJUST DUCTBANK MARKER TO PROPOSED GRADE (AR110949)
 - ⑦ LIMITS OF PROPOSED GRADING

- ### GENERAL NOTES
1. REFER TO SHEET GL-101 THROUGH GL-104 FOR GEOMETRIC LAYOUT AND PROPOSED PAVING DETAILS.
 2. REFER TO SHEET CT-201 AND CT-202 FOR PAVEMENT STRUCTURAL SECTIONS.
 3. REFER TO STORM DRAIN PROFILES AND PIPE AND STRUCTURE TABLES, SHEET CG-201.
 4. PIPE TRENCH AND BEDDING PER DETAIL SHEET CG-502.
 5. INFORMATION SHOWN HEREIN IS REPRESENTATIVE AND HAS BEEN USED BY THE ENGINEER AS A BASIS OF DESIGN. THE CONTRACTOR SHALL VERIFY AND MATCH EXISTING ELEVATIONS AND GRADES WHERE APPLICABLE AND NOTIFY THE ENGINEER IMMEDIATELY OF ANY DISCREPANCIES BETWEEN THE INFORMATION SHOWN HEREIN AND THAT FOUND IN THE FIELD.
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 8. EXPOSED SUBGRADE AND BASE MATERIAL SHALL BE KEPT MOIST, COMPACTED AND TREATED WITH A DUST PALLIATIVE TO MINIMIZE DUST AND FOD FROM CONSTRUCTION ACTIVITY.
 9. GENERAL CLEANUP OF CONSTRUCTION SITE AND STAGING AREA SHALL BE DONE CONTINUOUSLY BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE CONTRACT.
 10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DEWATERING AT NO ADDITIONAL COST TO THE CONTRACT. ANY REWORK OR ADDITIONAL WORK REQUIRED BECAUSE OF THE CONTRACTOR'S FAILURE TO MAINTAIN ADEQUATE DRAINAGE WILL BE AT THE CONTRACTOR'S EXPENSE.
 11. UNDERDRAINS ARE NOT SHOWN FOR CLARITY. THE COST FOR CORING AND CONNECTING TO EXISTING STRUCTURES WILL BE INCIDENTAL TO THE COST OF UNDERDRAIN PIPE. REFER TO SHEETS UD-101 THROUGH UD-104 FOR UNDERDRAIN LAYOUT.

MATCH LINE STA 207+00.00 - SEE SHEET CG-102

- ### GENERAL NOTES (CONTINUED)
12. CONTRACTOR SHALL DISPOSE OF EXCESS SPOILS OFF AIRPORT PROPERTY IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS. HAULING AND DISPOSAL WILL NOT BE PAID FOR SEPARATELY, BUT WILL BE INCIDENTAL TO ITEM AR152410 UNCLASSIFIED EXCAVATION.



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TITLE: GRADING AND DRAINAGE PLAN
 PROJECT: CONSTRUCT REPLACEMENT PARALLEL TAXIWAY AND REPLACE AIRPORT ROTATING BEACON VILLAGE OF BOLINGBROOK BOLINGBROOK, WILL COUNTY, ILLINOIS

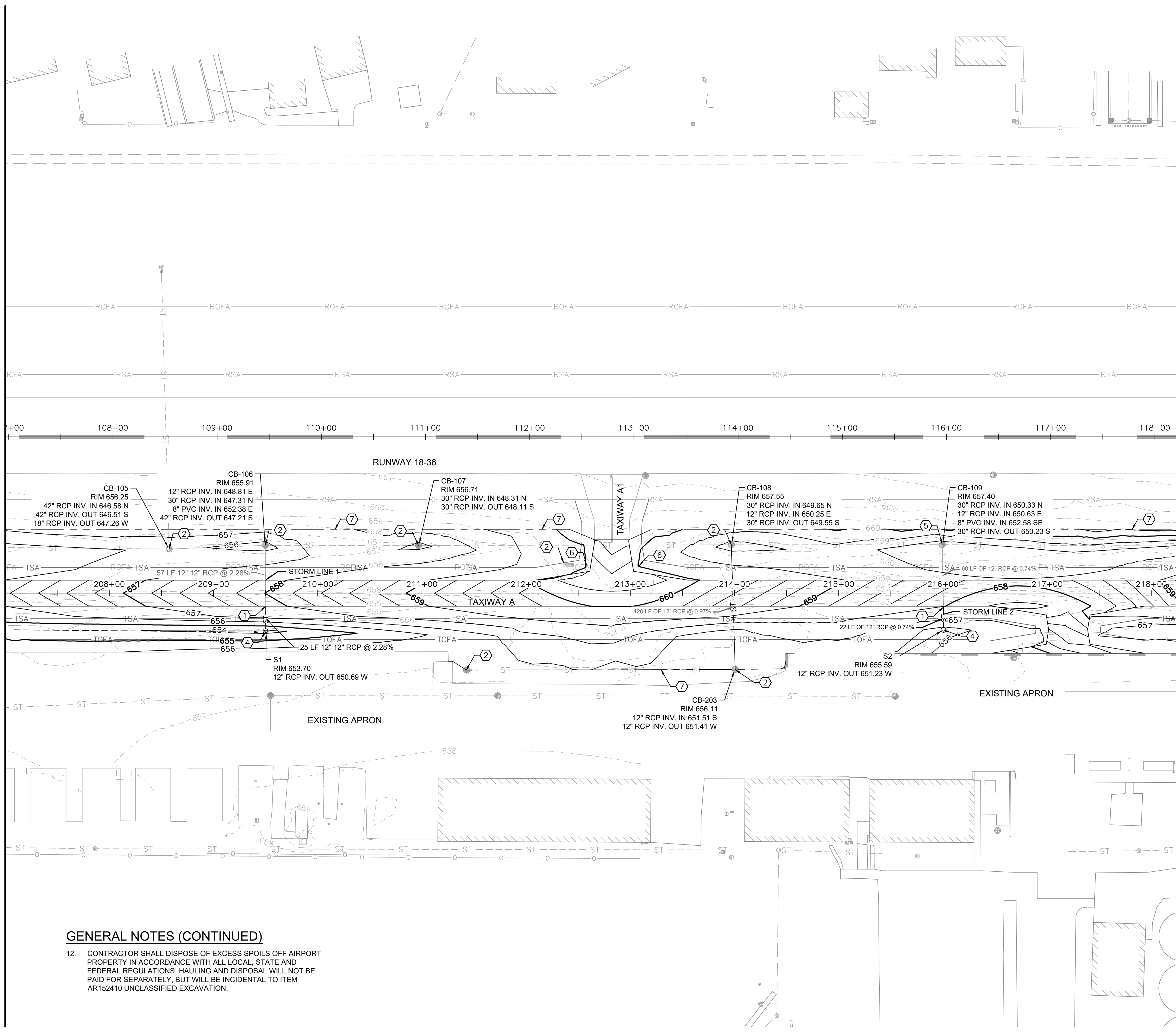


DRAWING NO. CG-101
 PROJECT NUMBER: 168001005

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MATCH LINE STA 207+00.00 - SEE SHEET CG-101

MATCH LINE STA 218+25.00 - SEE SHEET CG-103



GENERAL NOTES (CONTINUED)

- 12. CONTRACTOR SHALL DISPOSE OF EXCESS SPOILS OFF AIRPORT PROPERTY IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS. HAULING AND DISPOSAL WILL NOT BE PAID FOR SEPARATELY, BUT WILL BE INCIDENTAL TO ITEM AR152410 UNCLASSIFIED EXCAVATION.

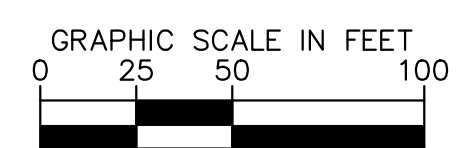
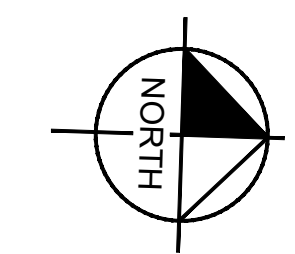
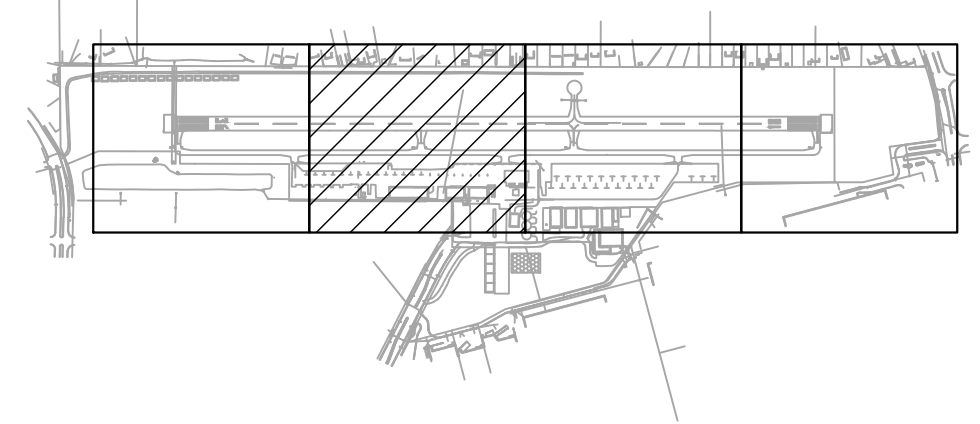
LEGEND

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- 657 — PROPOSED CONTOUR (1' INTERVALS)
- ST — EXISTING STORM SEWER PIPE
- ST --- PROPOSED STORM SEWER PIPE
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SUITE 600
WARRENVILLE, IL 60555
TEL (630) 487-5550



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JRH	JY	
REV.	DATE	DESCRIPTION
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TITLE: GRADING AND DRAINAGE PLAN
PROJECT: CONSTRUCT REPLACEMENT PARALLEL TAXIWAY AND REPLACE AIRPORT ROTATING BEACON VILLAGE OF BOLINGBROOK BOLINGBROOK, WILL COUNTY, ILLINOIS

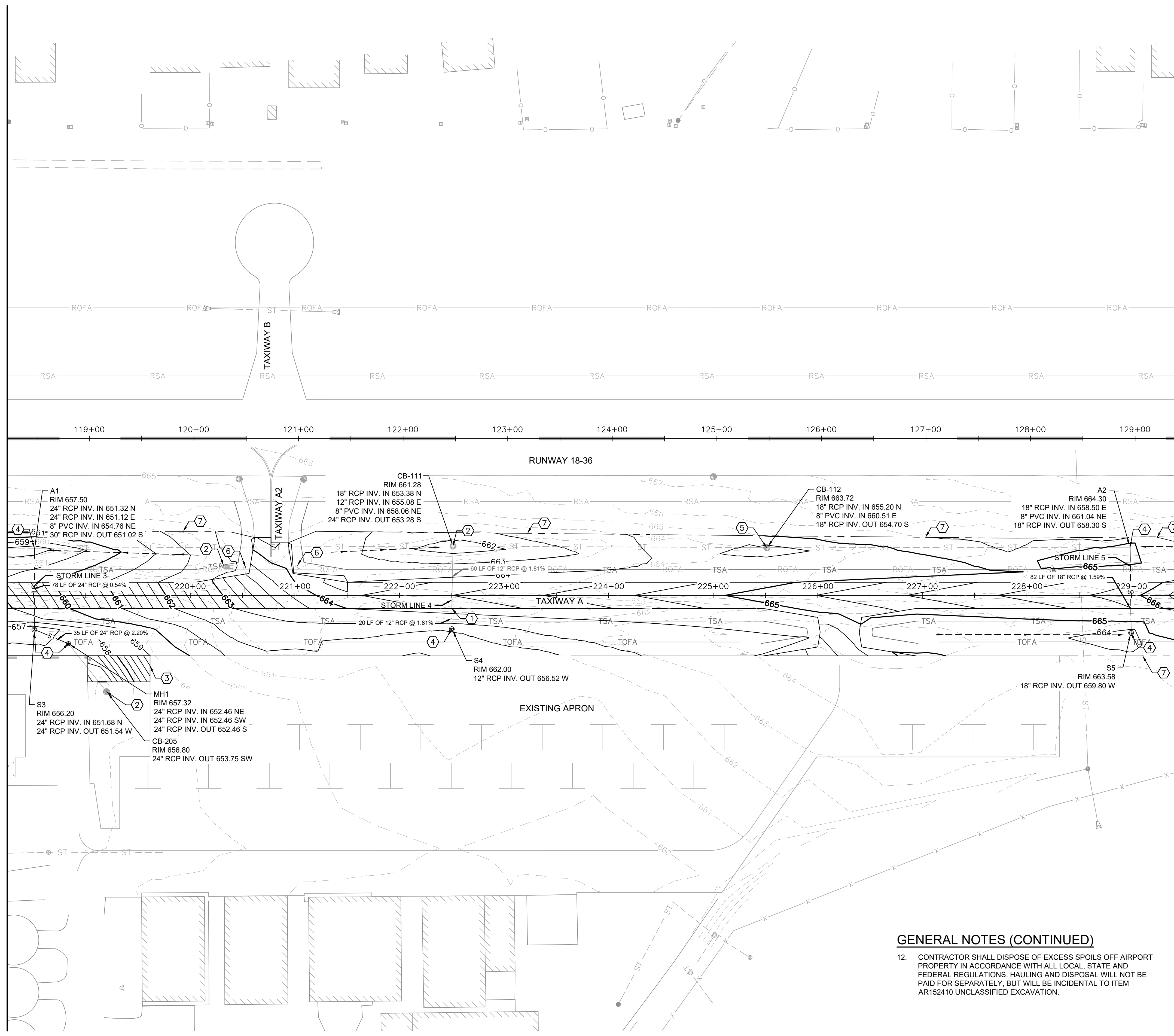


DRAWING NO.
CG-102
PROJECT NUMBER:
168001005

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MATCH LINE STA 218+25.00 - SEE SHEET CG-102

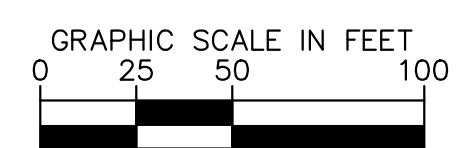
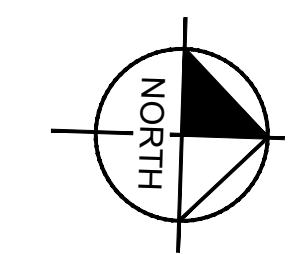
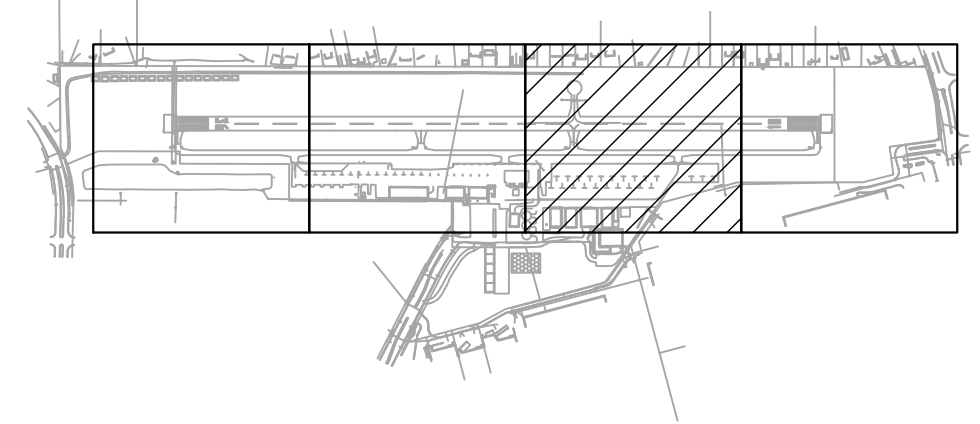
MATCH LINE STA 229+50.00 - SEE SHEET CG-104



- LEGEND**
- 657 — EXISTING CONTOUR (1' INTERVALS)
 - 657 — PROPOSED CONTOUR (1' INTERVALS)
 - ST — EXISTING STORM SEWER PIPE
 - ST --- PROPOSED STORM SEWER PIPE
 - FLOW LINE
 - ⊕ EXISTING STORM SEWER STRUCTURE
 - ⊕ PROPOSED STORM SEWER STRUCTURE
 - × 656.15 SPOT ELEVATION
- ① CONNECT PROPOSED STORM SEWER TO EXISTING PIPE
 - ② PROTECT EXISTING FACILITY IN PLACE
 - ③ LIMITS OF GRADING
 - ④ FURNISH AND INSTALL MANHOLE, PER DETAIL SHEET CG-501
 - ⑤ ADJUST STRUCTURE PER ADJUSTMENT TABLE ON SHEET CG-201
 - ⑥ ADJUST DUCTBANK MARKER TO PROPOSED GRADE (AR110949)
 - ⑦ LIMITS OF PROPOSED GRADING

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 2. REFER TO SHEET CT-201 AND CT-202 FOR PAVEMENT STRUCTURAL SECTIONS.
 3. REFER TO STORM DRAIN PROFILES AND PIPE AND STRUCTURE TABLES, SHEET CG-201.
 4. PIPE TRENCH AND BEDDING PER DETAIL SHEET CG-502.
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WARRENVILLE, IL 60555
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DATE:	11/22/2024	SCALE:	1" = 50'
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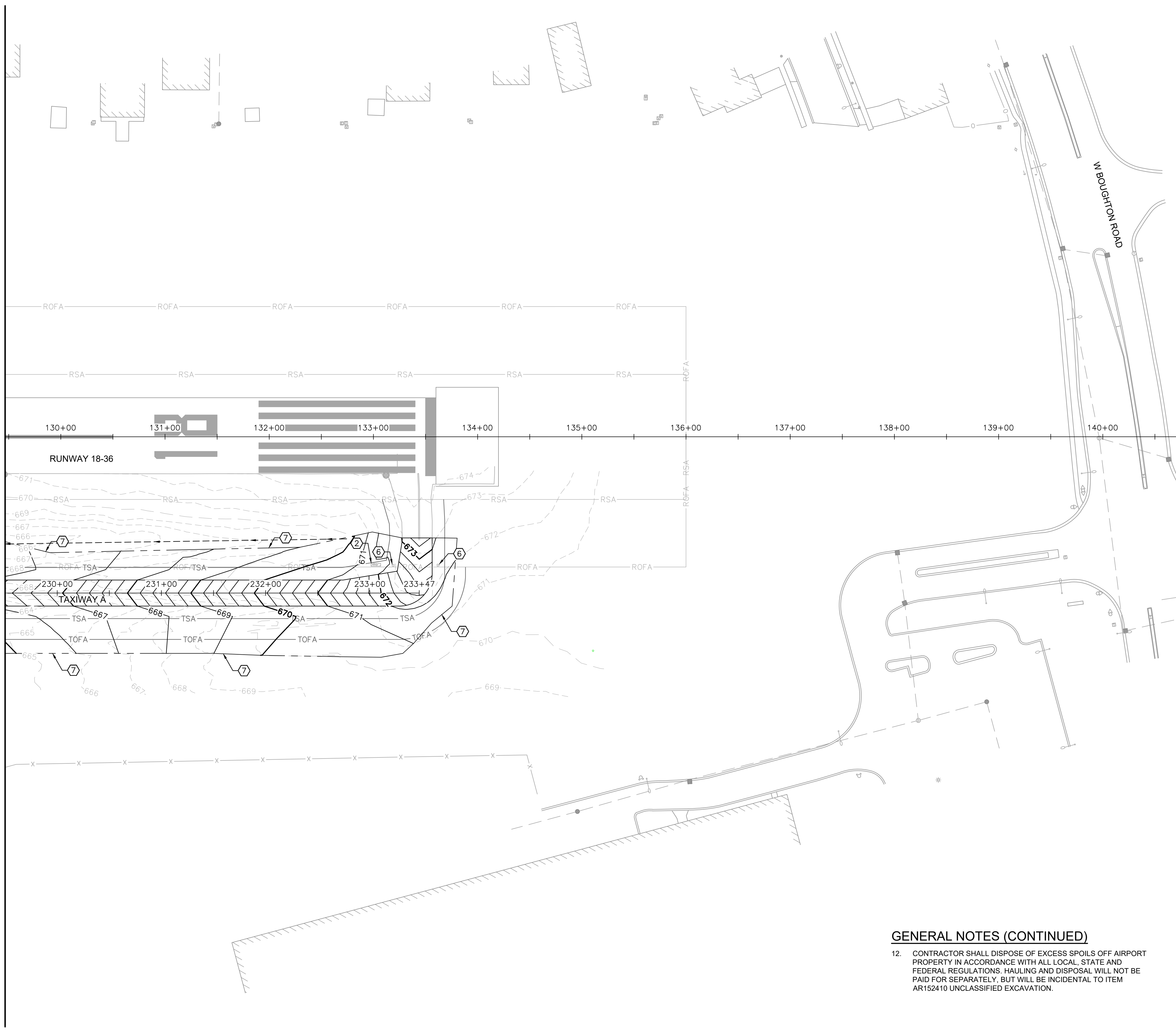
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PROJECT: CONSTRUCT REPLACEMENT PARALLEL TAXIWAY AND REPLACE AIRPORT ROTATING BEACON VILLAGE OF BOLINGBROOK, WILL COUNTY, ILLINOIS



DRAWING NO. CG-103
 PROJECT NUMBER: 168001005

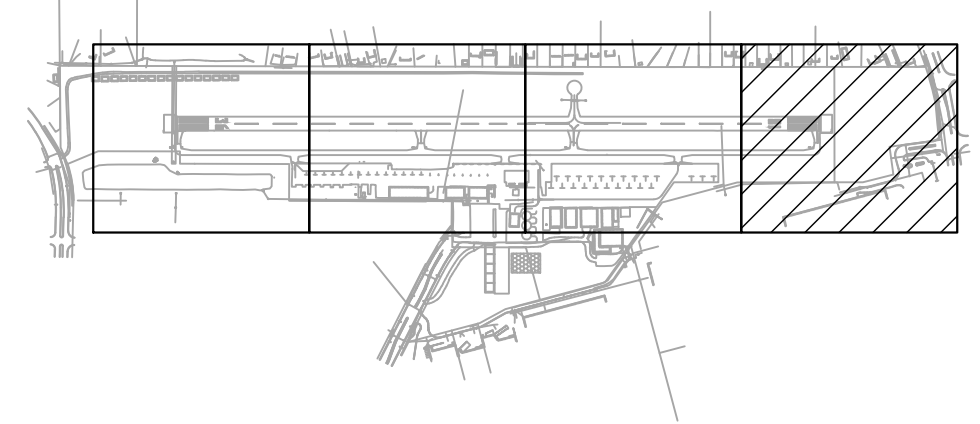
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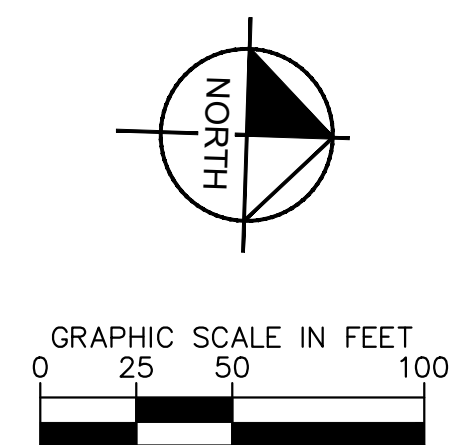


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JRH	JY

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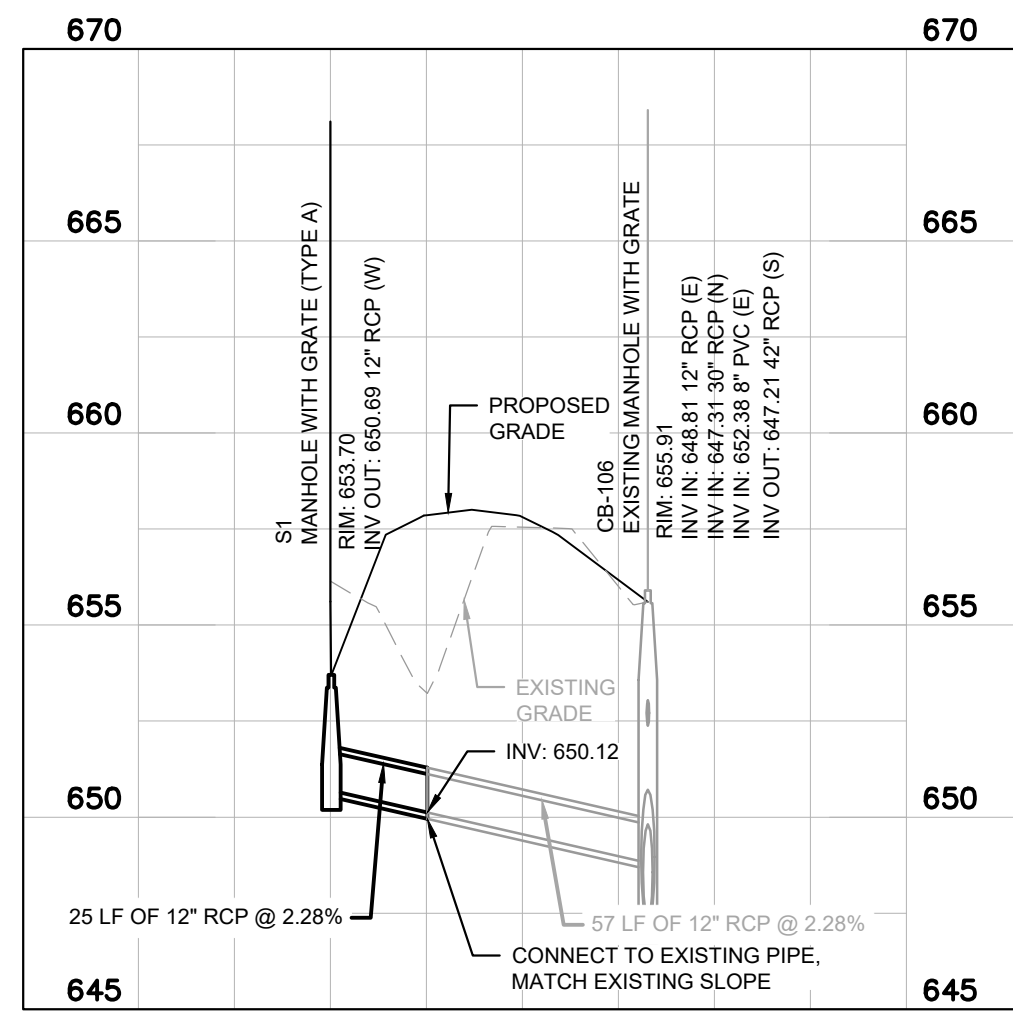
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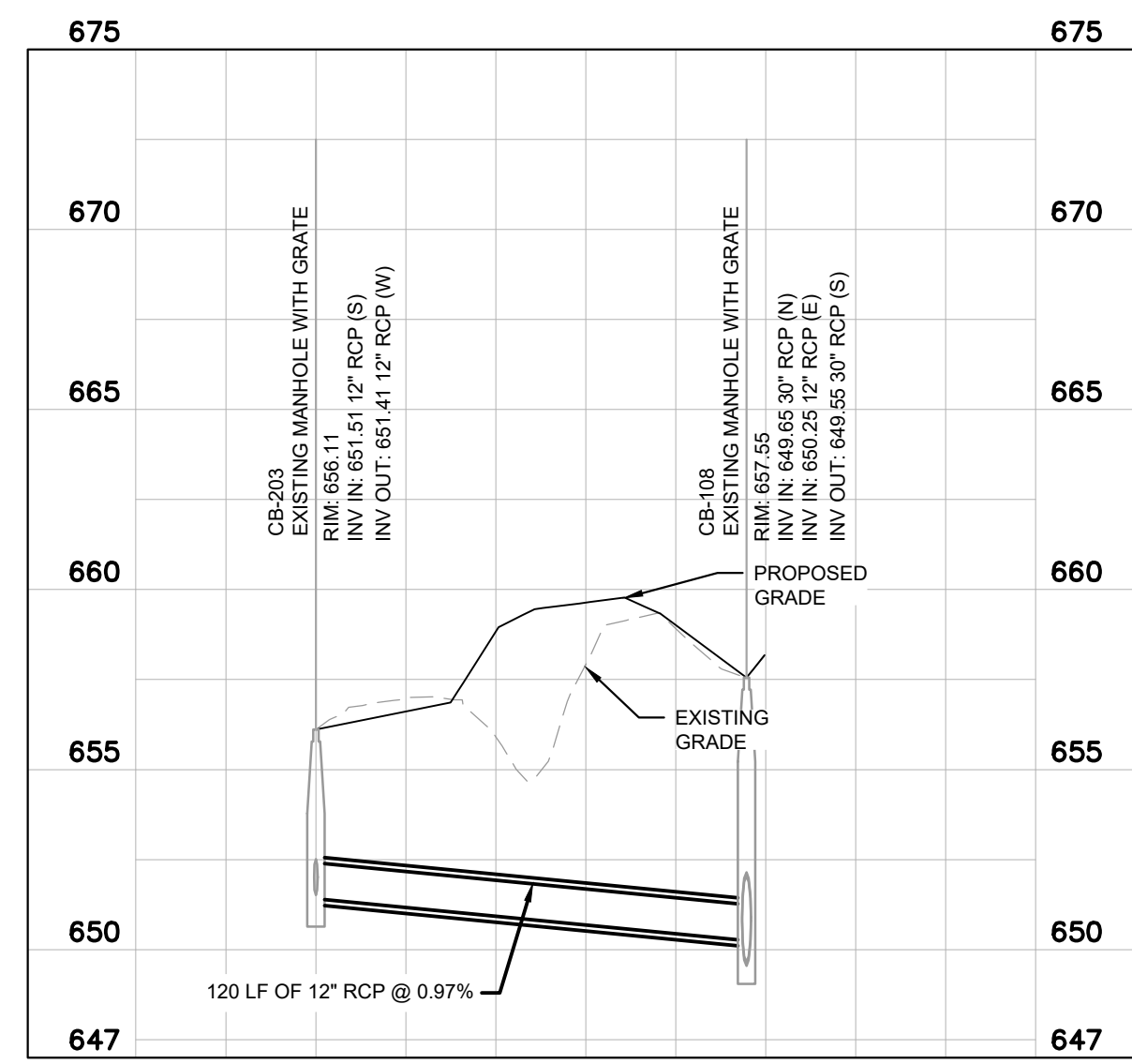
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PROJECT NUMBER: 168001005

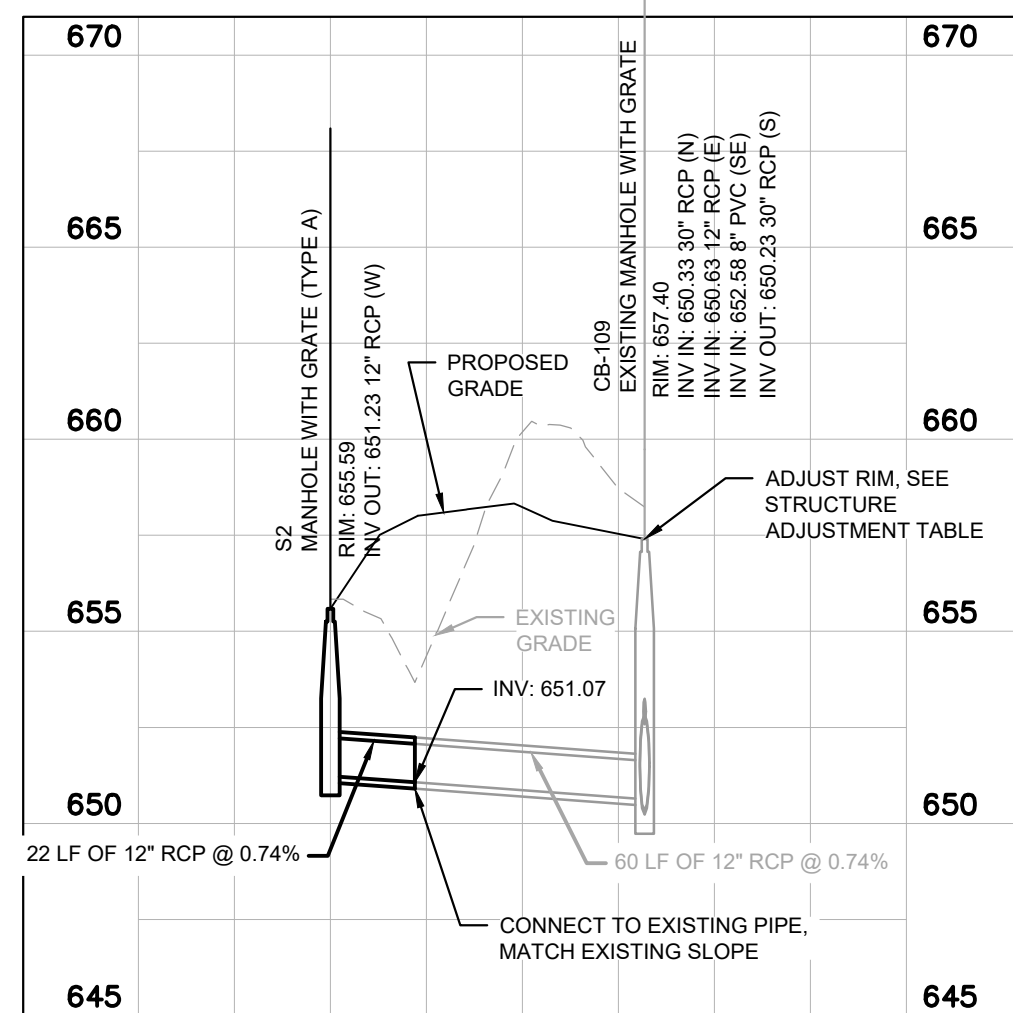
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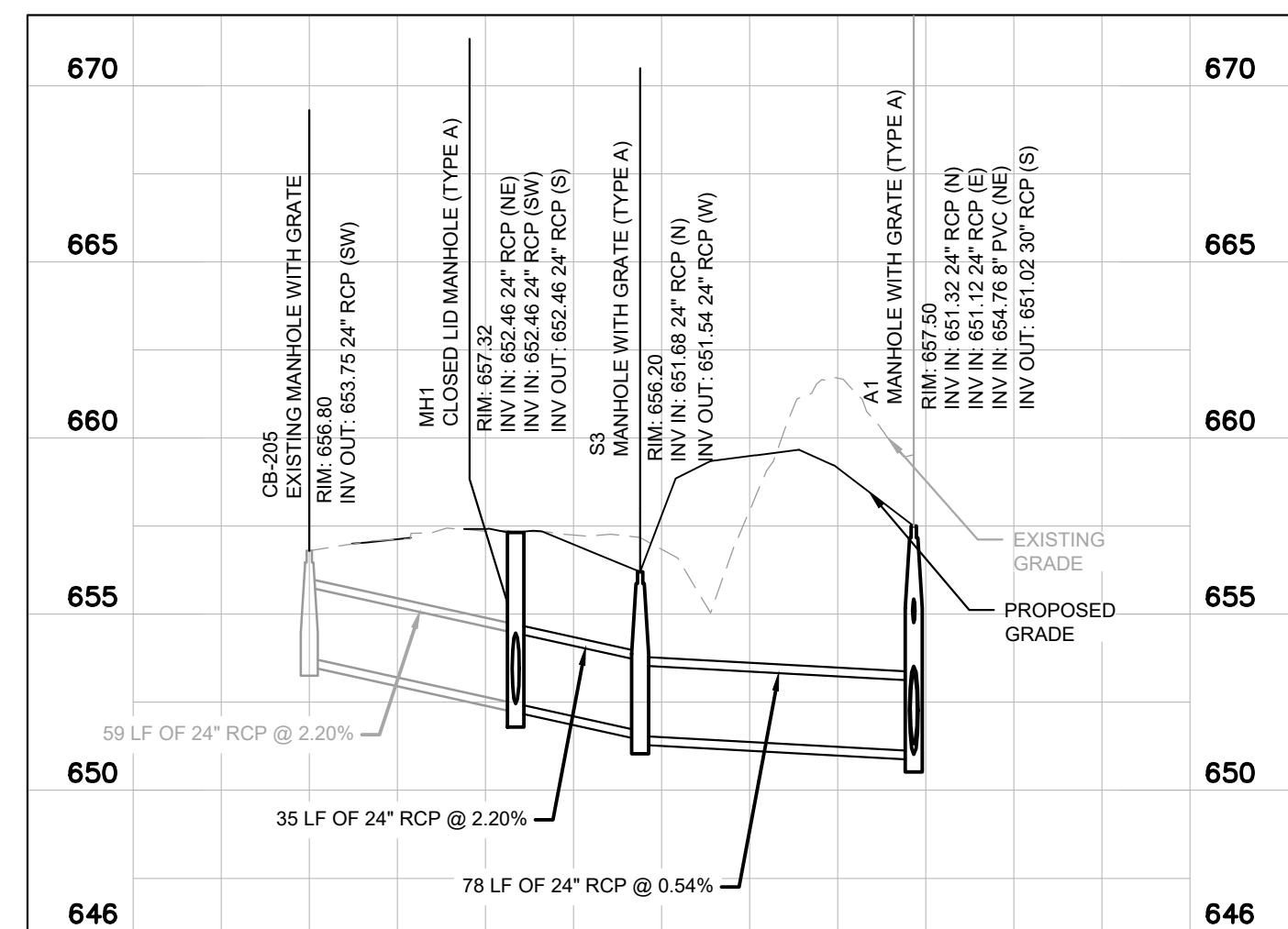
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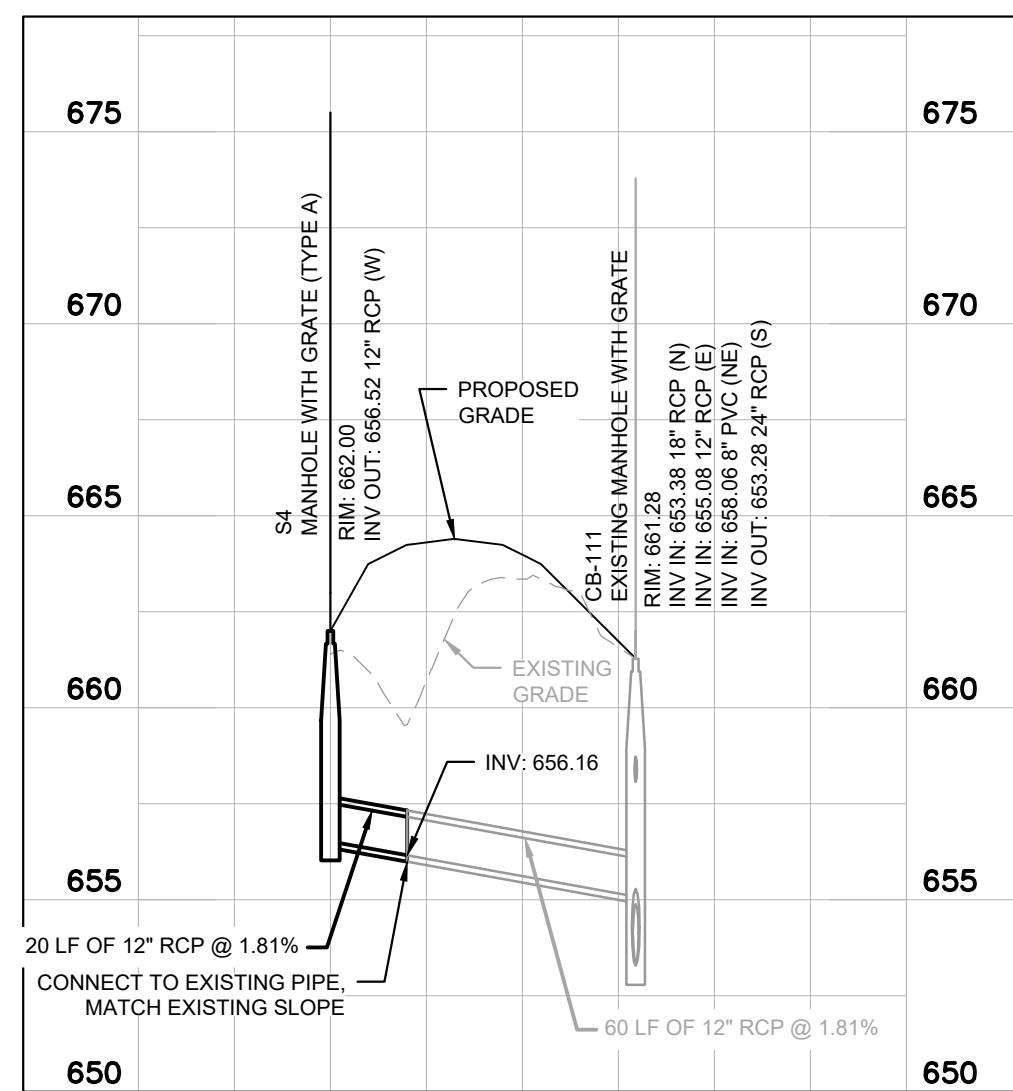
STORM LINE REPLACEMENT



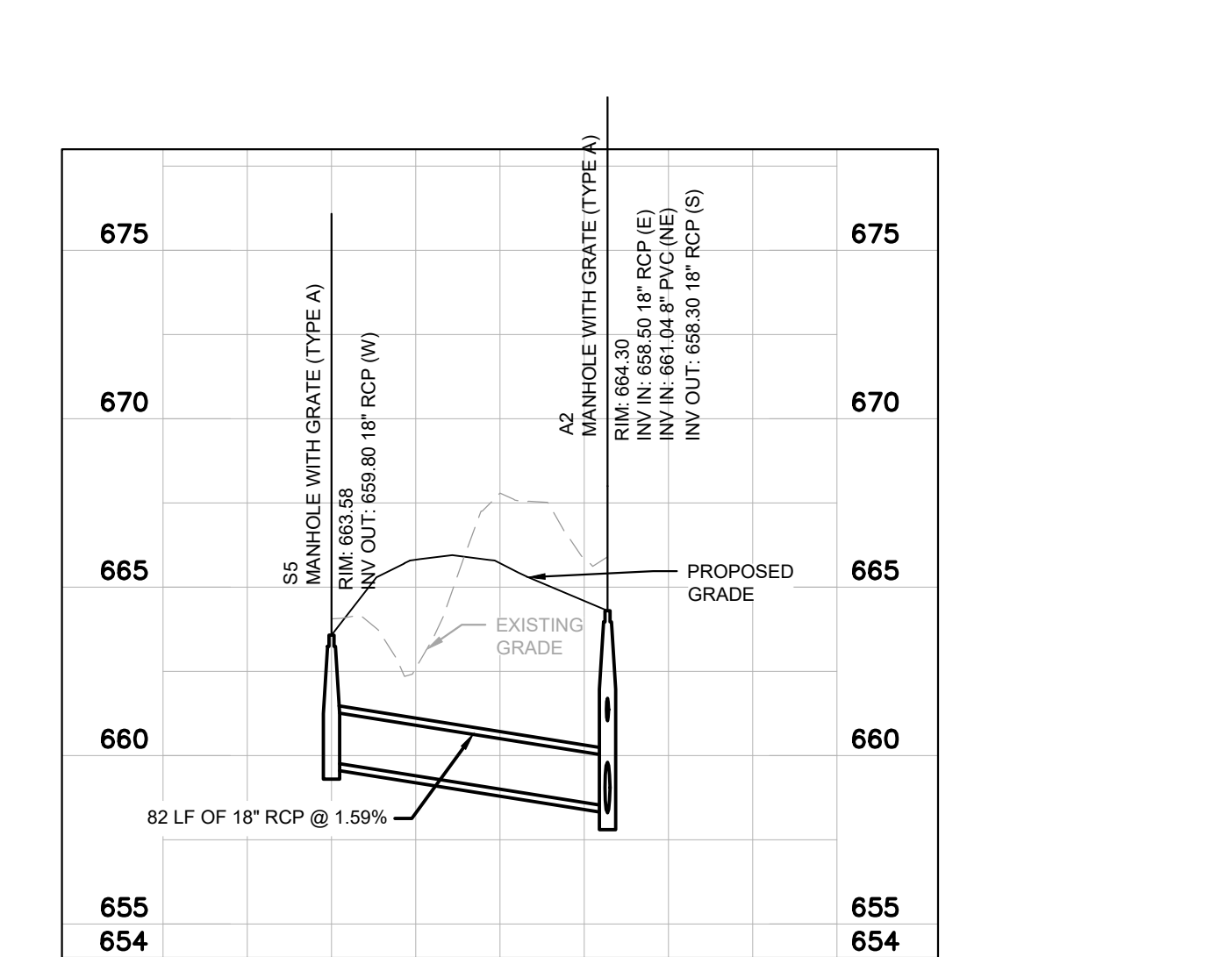
STORM LINE 2



STORM LINE 3



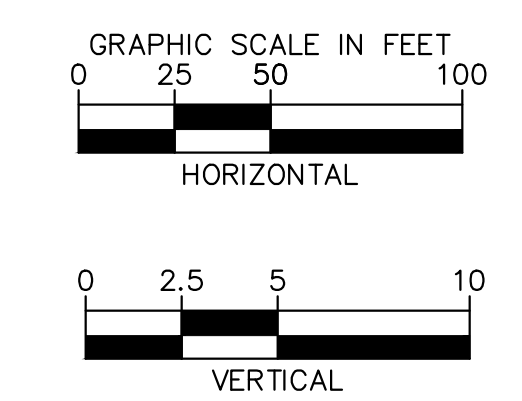
STORM LINE 4



STORM LINE 5

STRUCTURE TABLE				
STRUCTURE NAME	DETAILS	N/E:	PIPES IN	PIPES OUT
A1 (PROPOSED)	MANHOLE WITH GRATE (TYPE A) RIM: 657.50 INV IN: 651.32 INV IN: 651.12 INV IN: 654.76 INV OUT: 651.02	N: 1832018.7680 E: 1040020.3150	FROM CB-111, 24" RCP INV IN: 651.32 @ 0.49% FROM S3, 24" RCP INV IN: 651.12 @ 0.54% FROM CLEAN OUT 12, 8" PVC INV IN: 654.76 @ 5.00%	TO CB-109, 30" RCP INV OUT: 651.02 @ 0.27%
A2 (PROPOSED)	MANHOLE WITH GRATE (TYPE A) RIM: 664.30 INV IN: 658.50 INV IN: 661.04 INV OUT: 658.30	N: 1833065.9199 E: 1039986.7070	FROM S5, 18" RCP INV IN: 658.50 @ 1.59% FROM CLEAN OUT 20, 8" PVC INV IN: 661.04 @ 1.00%	TO CB-112, 18" RCP INV OUT: 658.30 @ 0.89%
CB-106 (EXISTING)	EXISTING MANHOLE WITH GRATE RIM: 655.91 INV IN: 648.81 INV IN: 647.31 INV IN: 652.38 INV OUT: 647.21	N: 1831117.9098 E: 1040047.6339	FROM S1 & CB-106 CONNECTION, 12" RCP INV IN: 648.81 @ 2.28% FROM CB-107, 30" RCP INV IN: 647.31 @ 0.54% FROM CLEAN OUT 6, 8" PVC INV IN: 652.38 @ 4.02%	TO CB-105, 42" RCP INV OUT: 647.21 @ 0.68%
CB-109 (EXISTING)	EXISTING MANHOLE WITH GRATE RIM: 657.40 INV IN: 650.33 INV IN: 650.63 INV IN: 652.58 INV OUT: 650.23	N: 1831767.2995 E: 1040026.7469	FROM A1, 30" RCP INV IN: 650.33 @ 0.27% FROM S2 & CB-109 CONNECTION, 12" RCP INV IN: 650.63 @ 0.74% FROM CLEAN OUT 10, 8" PVC INV IN: 652.58 @ 4.37%	TO CB-108, 30" RCP INV OUT: 650.23 @ 0.29%
CB-111 (EXISTING)	EXISTING MANHOLE WITH GRATE RIM: 661.28 INV IN: 653.38 INV IN: 655.08 INV IN: 658.06 INV OUT: 653.28	N: 1832418.7252 E: 1040005.6940	FROM CB-112, 18" RCP INV IN: 653.38 @ 0.44% FROM S4 & CB-111 CONNECTION, 12" RCP INV IN: 655.08 @ 1.81% FROM CLEAN OUT 15, 8" PVC INV IN: 658.06 @ 4.29%	TO A1, 24" RCP INV OUT: 653.28 @ 0.49%
CB-205 (EXISTING)	EXISTING MANHOLE WITH GRATE RIM: 656.80 INV OUT: 653.75	N: 1832091.9038 E: 1040155.2797		TO MH1, 24" RCP INV OUT: 653.75 @ 2.20%
MH1 (PROPOSED)	CLOSED LID MANHOLE (TYPE A) RIM: 657.32 INV IN: 652.46 INV IN: 652.46 INV OUT: 652.46	N: 1832054.0929 E: 1040110.4977	FROM CB-205, 24" RCP INV IN: 652.46 @ 2.20% FROM 175, 24" RCP INV IN: 652.46 @ -2.20%	TO S3, 24" RCP INV OUT: 652.46 @ 2.20%
S1 (PROPOSED)	MANHOLE WITH GRATE (TYPE A) RIM: 653.70 INV OUT: 650.69	N: 1831120.8408 E: 1040130.0082		TO S1 & CB-106 CONNECTION, 12" RCP INV OUT: 650.69 @ 2.28%
S2 (PROPOSED)	MANHOLE WITH GRATE (TYPE A) RIM: 655.59 INV OUT: 651.23	N: 1831771.0476 E: 1040108.4596		TO S2 & CB-109 CONNECTION, 12" RCP INV OUT: 651.23 @ 0.74%
S3 (PROPOSED)	MANHOLE WITH GRATE (TYPE A) RIM: 656.20 INV IN: 651.68 INV OUT: 651.54	N: 1832021.1059 E: 1040098.0151	FROM MH1, 24" RCP INV IN: 651.68 @ 2.20%	TO A1, 24" RCP INV OUT: 651.54 @ 0.54%
S4 (PROPOSED)	MANHOLE WITH GRATE (TYPE A) RIM: 662.00 INV OUT: 656.52	N: 1832420.0181 E: 1040085.2141		TO S4 & CB-111 CONNECTION, 12" RCP INV OUT: 656.52 @ 1.81%
S5 (PROPOSED)	MANHOLE WITH GRATE (TYPE A) RIM: 663.58 INV OUT: 659.80	N: 1833069.4248 E: 1040068.5122		TO A2, 18" RCP INV OUT: 659.80 @ 1.59%

STRUCTURE ADJUSTMENT TABLE				
STRUCTURE NAME	STRUCTURE DETAILS	EXISTING RIM ELEVATION	ADJUSTMENT	NOTES
CB-112	EXISTING MANHOLE WITH GRATE PROPOSED RIM: 663.724	658.233'	-0.833'	REMOVE EXISTING 28" ADJUSTMENT RING, INSTALL 18" ADJUSTMENT RING
CB-109	EXISTING MANHOLE WITH GRATE PROPOSED RIM: 657.400	664.224'	-0.500'	REMOVE EXISTING 6" ADJUSTMENT RING

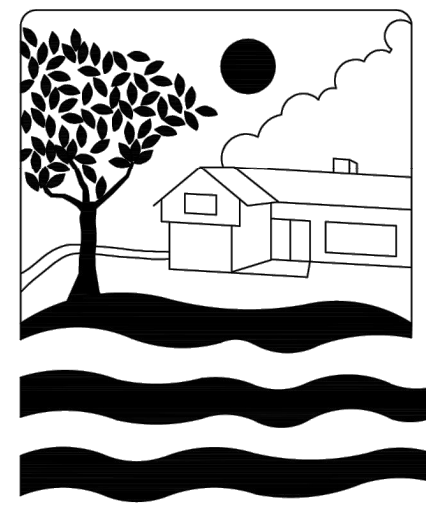


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TITLE: DRAINAGE PROFILES AND TABLES
PROJECT: CONSTRUCT REPLACEMENT PARALLEL TAXIWAY AND REPLACE AIRPORT ROTATING BEACON VILLAGE OF BOLINGBROOK BOLINGBROOK, WILL COUNTY, ILLINOIS



DRAWING NO. **CG-201**
PROJECT NUMBER: 168001005



Bolingbrook

a place to grow

Storm Sewer Standards 1

Sheet 5

01-03-20

Storm Sewer Notes

General Notes

All storm sewers shall be constructed in accordance with the "Standard Specifications For Water and Sewer Main Construction" in Illinois and the Village of Bolingbrook Development Code. The storm water drainage system shall be separate and independent of the sanitary sewer system.

All overland drainage, downspouts, footing drains, and sump pumps shall be made to drain to the rear yard drainage system.

Materials & Installation

Unless otherwise noted on the plans, all storm sewers shall be reinforced concrete pipe, ASTM C 76, with gasketed joints conforming to ASTM C 443. The class of pipe will be determined by the plans. The rear yard storm sewer shall be PVC SDR 26 or ADS N-12, soil tight with bell and socket joints (not strap type), or approved equal.

Manholes, catch basins, and inlet bottoms shall be precast concrete sectional units or monolithic concrete. Manholes and catch basins shall be four (4') feet in diameter unless otherwise noted in the plans. Manhole joints shall be sealed with bituminous mastic. Not more than two (2) precast adjusting rings shall be used to adjust frame elevations.

All storm sewers shall be installed on a type 'A' bedding, one quarter (1/4") inch to three quarters (3/4") inch in size, with a maximum thickness equal to one quarter (1/4") of the outside diameter of the sewer pipe but not less than four (4") inches. Bedding of any kind for grade is not permitted. Bedding and initial backfill material shall be CA-7. Type 'A' bedding shall be compacted to ninety (90%) percent of the standard proctor density. The bedding for ADS N-12 pipe shall be in conformance with the manufacturer's recommendations.

All PVC or HDPE storm sewer or rear yard drains shall be tested deflection and obstructions in the pipe by use of mandrel. The mandrel shall be set at 95 percent of the pipes internal diameter.

Cast Iron Steps

Steps shall be gray iron conforming to the requirements of article 710.17 of the Standard Specifications. They shall be embedded into the wall a minimum of four (4") inches and shall not extend beyond the outside edge of the wall. If plastic polymer steps are used, they shall be constructed in conformance with I.D.O.T. Standards.

Manholes, Catch Basins & Inlets

Construction shall be in accordance with I.D.O.T. "Standard Specifications for Road and Bridge Construction."

Adjusting rings shall be precast concrete and used on storm, sanitary, and valve vault structures. Two (2") inch adjusting rings can be used on adjustments less than three (3") inches. The maximum adjustment allowed will be twelve (12") inches, and a maximum of two (2) rings will be allowed. A continuous layer of non-hardening, preformed, butyl-mastic material (RUB-R-NEK, EZ-STICK or equal) will be applied to each joint, adjusting ring, and frame to prevent infiltration. After the castings are adjusted, the space around them shall be filled with class 'SF' concrete to the elevation of the binder course.

Interior joints shall be 'dressed-up' with hydraulic cement or portland cement for strength and a water tight bond.

In paved areas, provide compacted CA-7 crushed stone aggregate around the structure to subgrade elevation.

All frame and grates in curbsides shall have concrete fillet.

The last 10' of stormsewer installed before entering a pond shall have it's stone bedding and stone backfill replaced with compacted clay.

Frames & Grates

All manhole lids shall be machined surfaced and non-rocking in design. The enclosed lids shall have the words "Village of Bolingbrook" and "Storm" embossed on the lid. The joint between the concrete section and the frame shall be sealed with a mastic compound.

Behve grates shall be used in grassy areas.

Trenching

Compacted CA-7 aggregate shall be used under all pavements, curbs, gutters, and within two (2) feet of any proposed curb and gutters. Backfill will be mechanically compacted. Backfill trenches with excavated material and mechanically compact unless otherwise noted.

All trenching shall conform to O.S.H.A. regulations and specifications. The angle of repose shall be calculated by O.S.H.A. for sloping excavations in various types of soil.

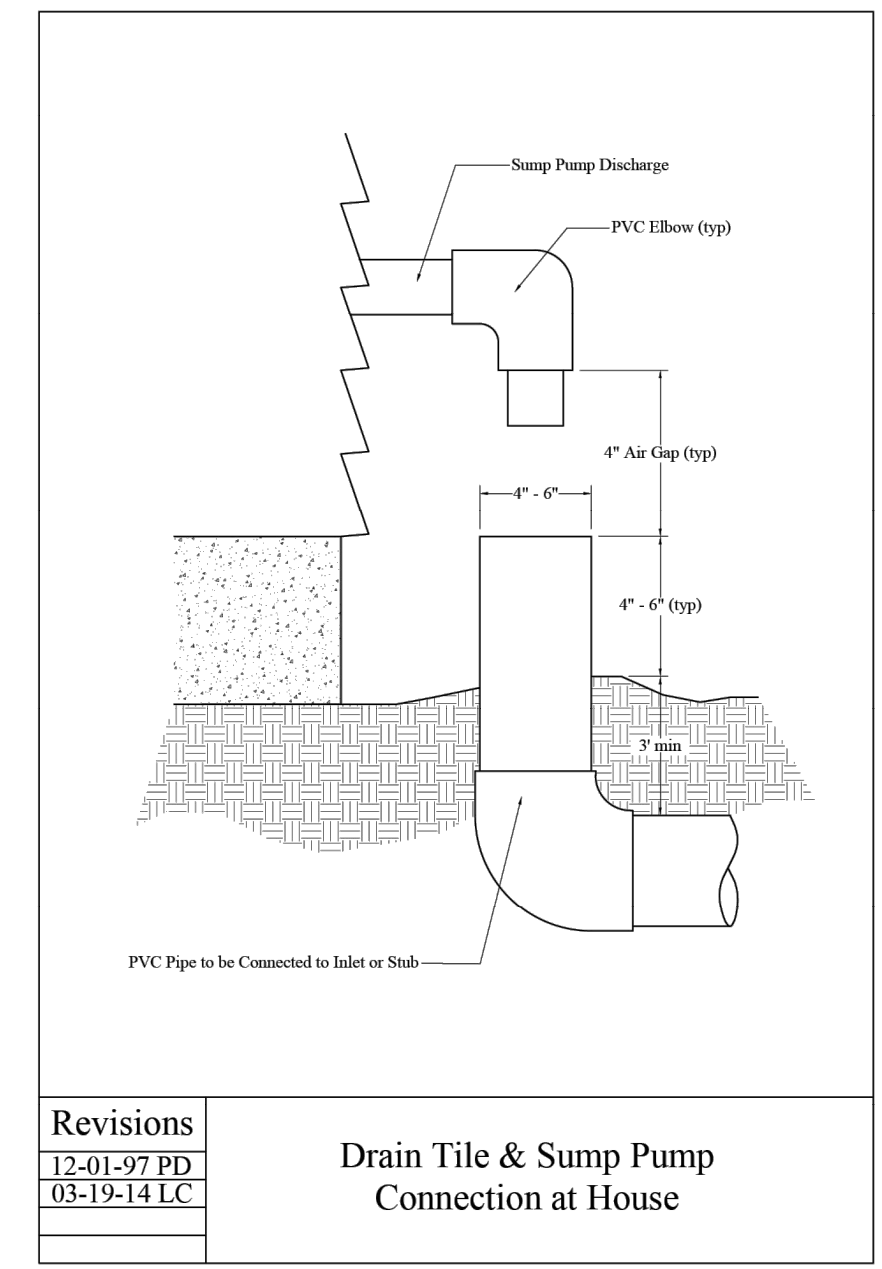
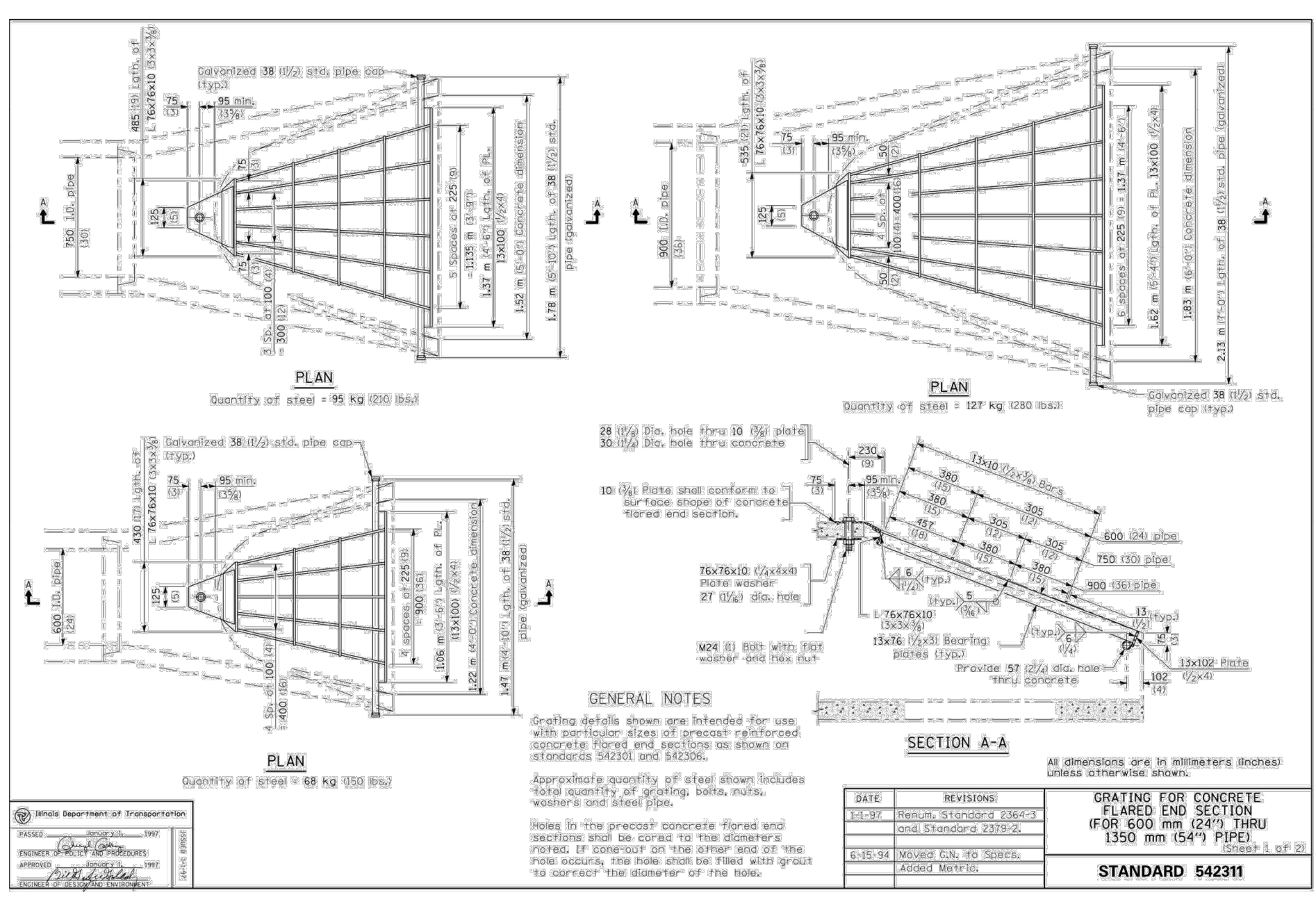
If encountered, remove unsuitable materials and replace with aggregate material as approved by the Village Engineer.

Detention Ponds

The detention area shall be respread with six (6") inches of topsoil, and covered with seed (IDOT type 1 lawn mixture) and excelsior blanket or knitted straw mat. The detention area will not be approved until the turf of grass has taken to the degree that the Village Engineer, or his designee, deems acceptable.

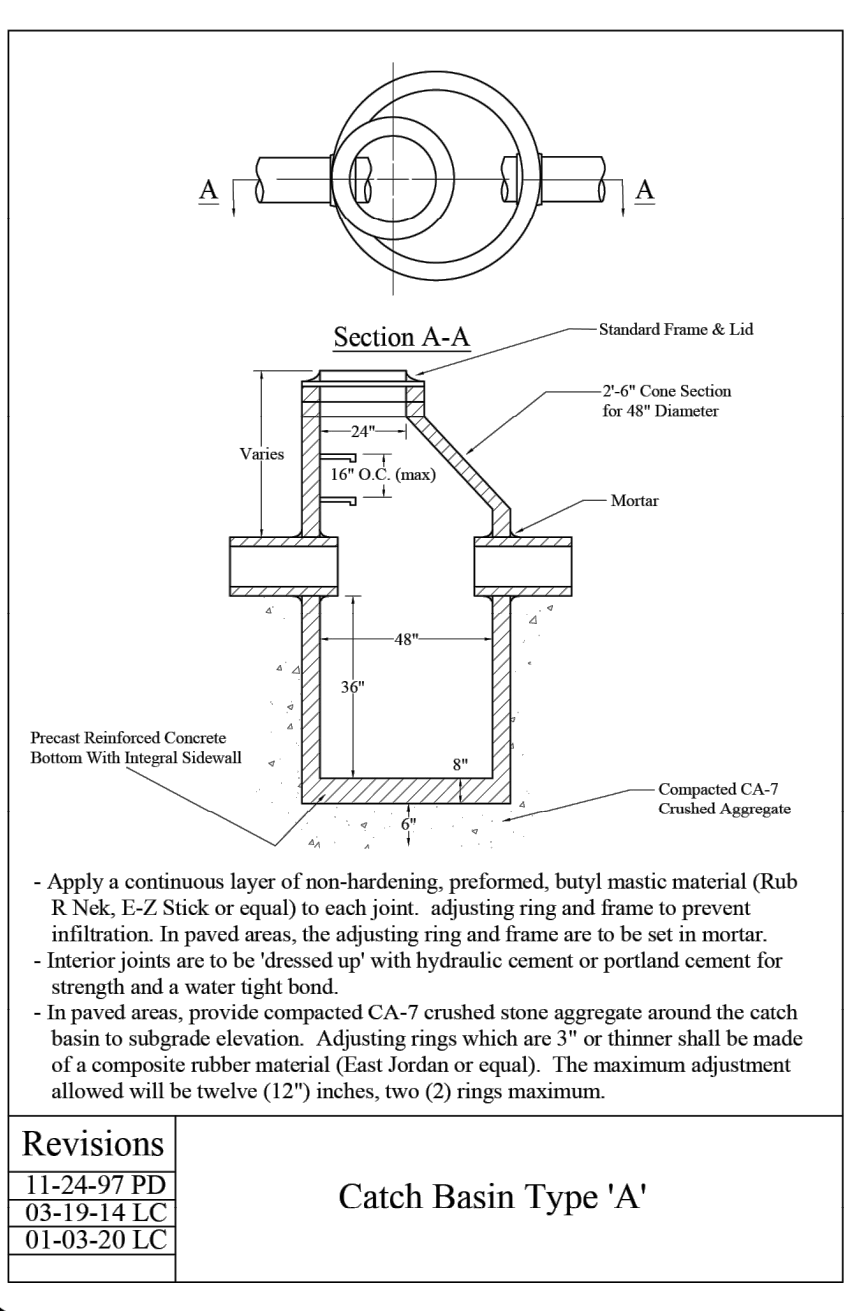
Retention Ponds

The retention areashall be respread with six (6") inches of topsoil, and covered with seed (IDOT type 1 lawn mixture) and excelsior blanket or knitted straw mat. The retention area will not be approved until the turf of grass has taken to the degree that the Village Engineer, or his designee, deems acceptable.



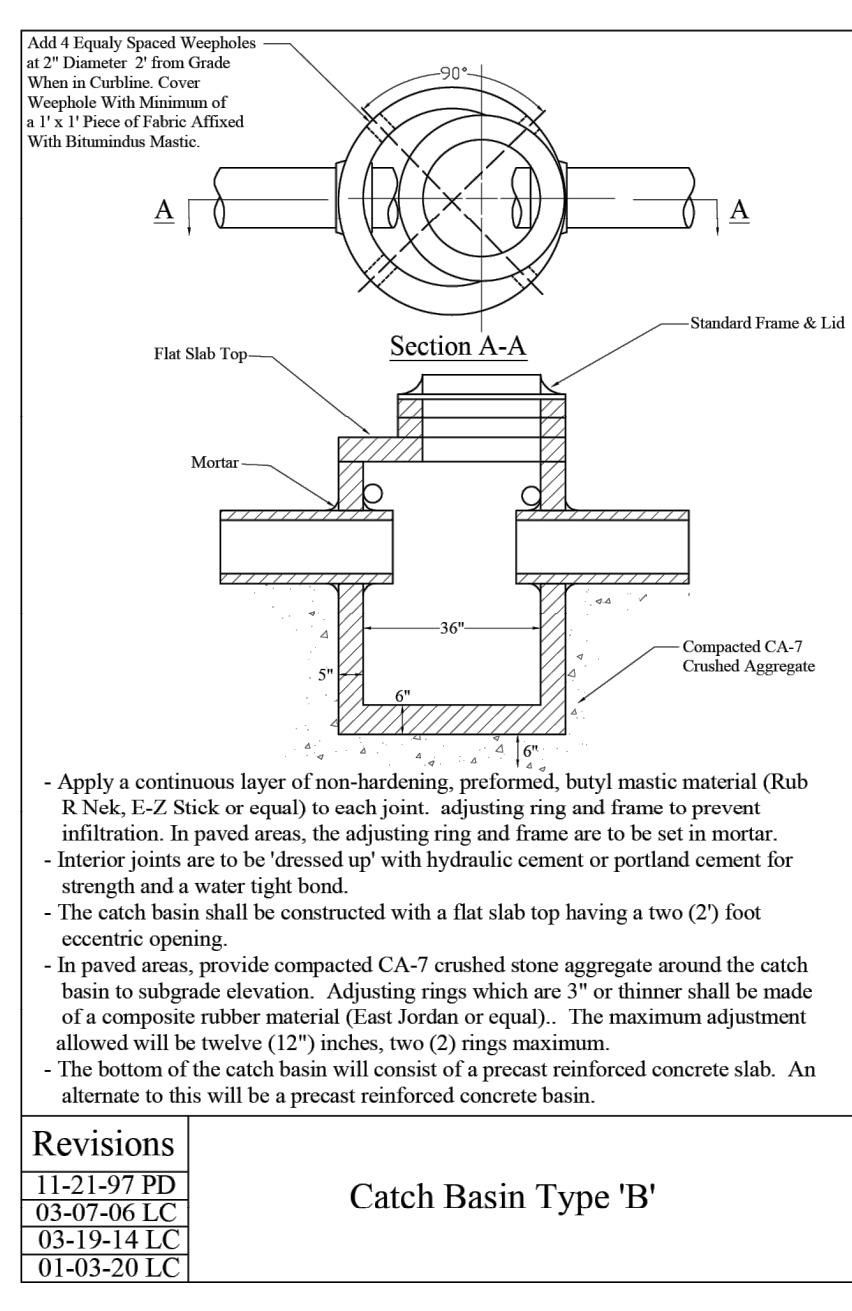
Revisions	DATE	DESCRIPTION
12-01-97 PD		
03-19-14 LC		

Drain Tile & Sump Pump Connection at House



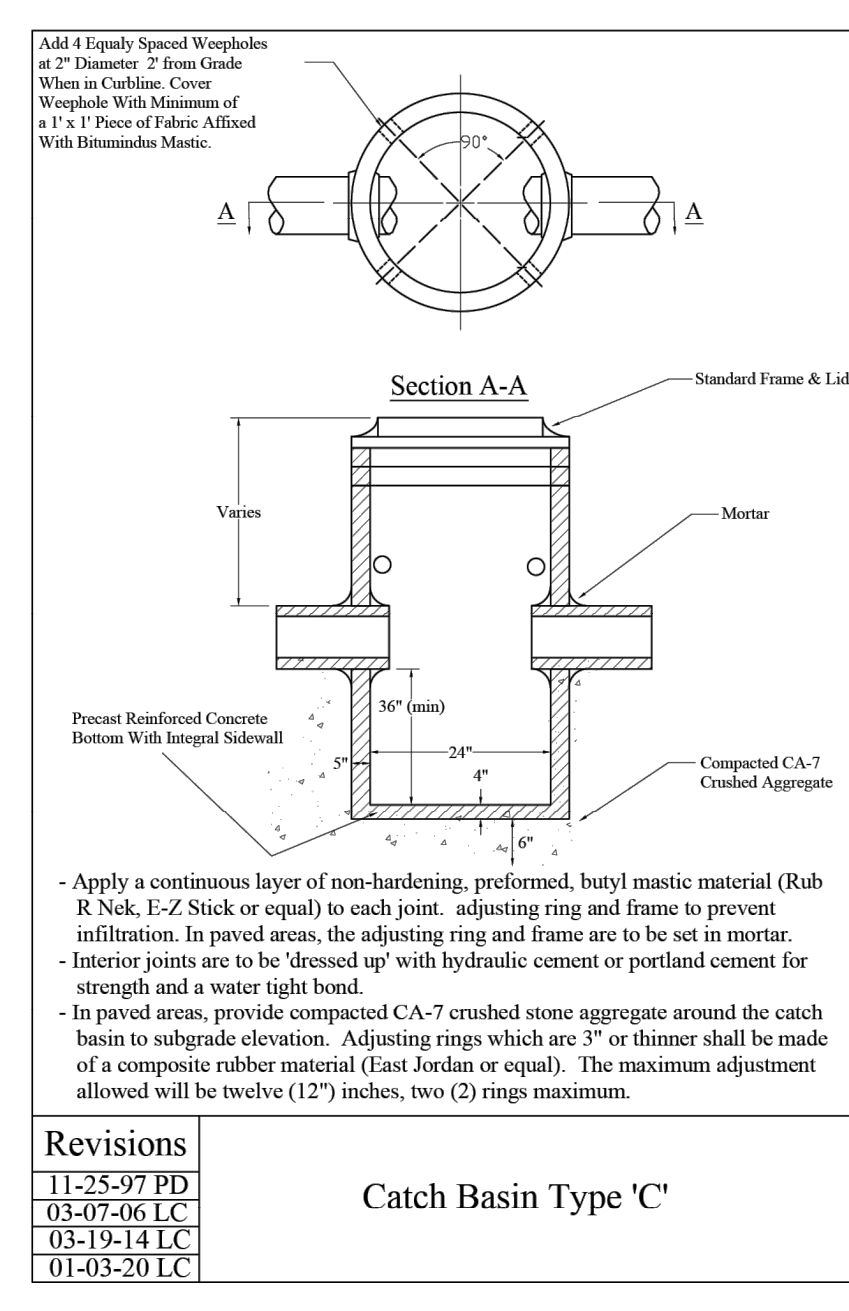
Revisions	DATE	DESCRIPTION
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03-19-14 LC		
01-03-20 LC		

Catch Basin Type 'A'



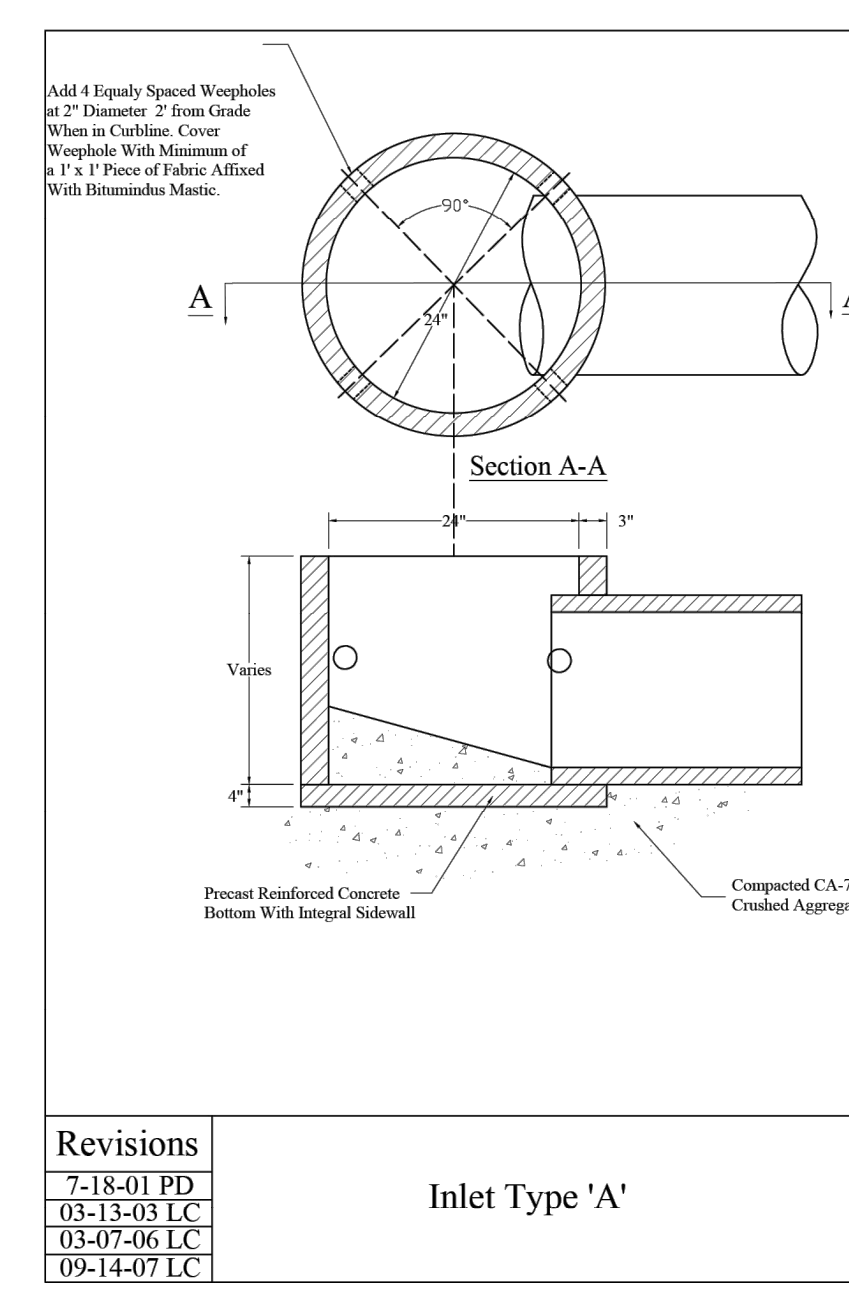
Revisions	DATE	DESCRIPTION
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03-07-06 LC		
03-19-14 LC		
01-03-20 LC		

Catch Basin Type 'B'



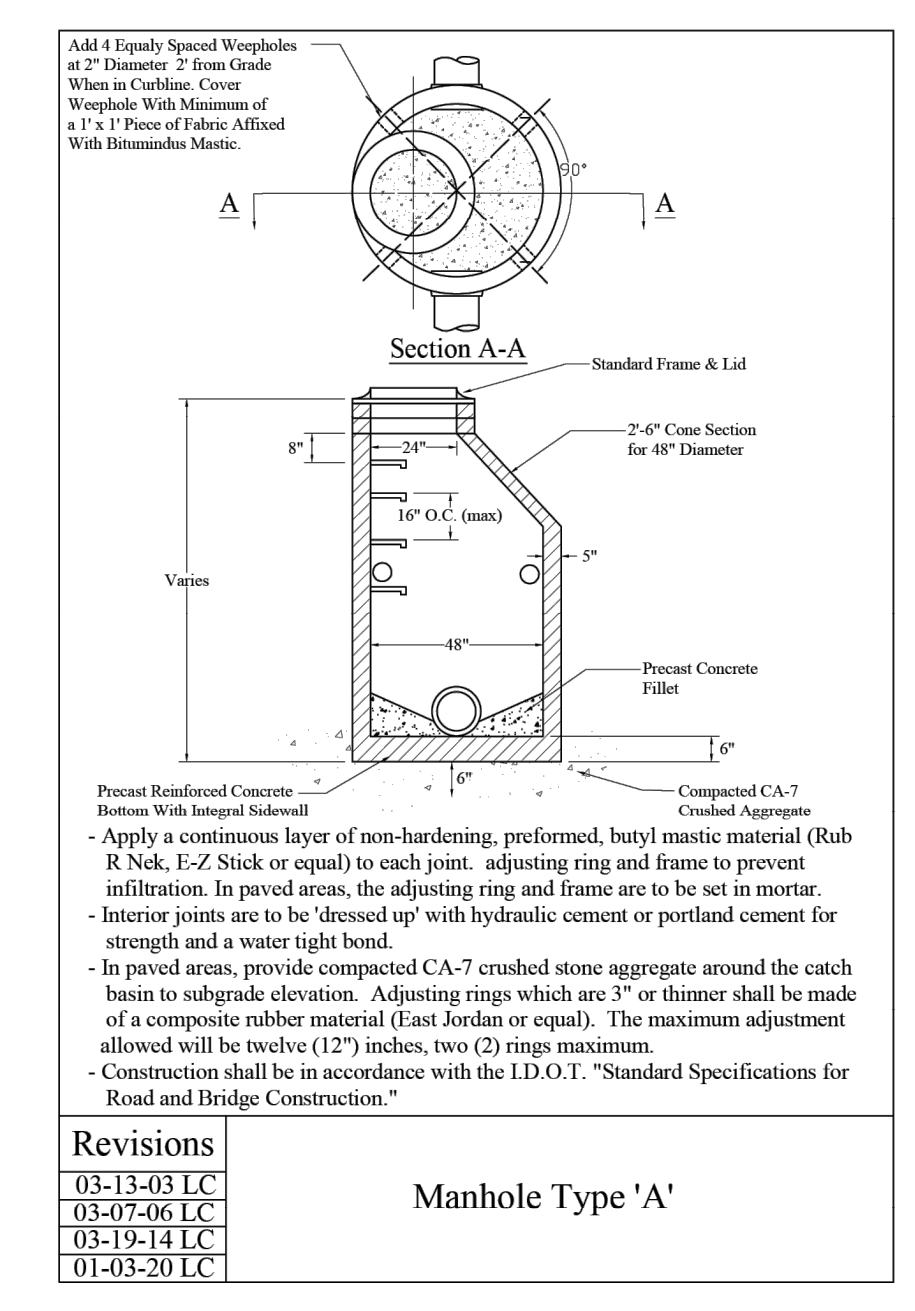
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03-07-06 LC		
03-19-14 LC		
01-03-20 LC		

Catch Basin Type 'C'



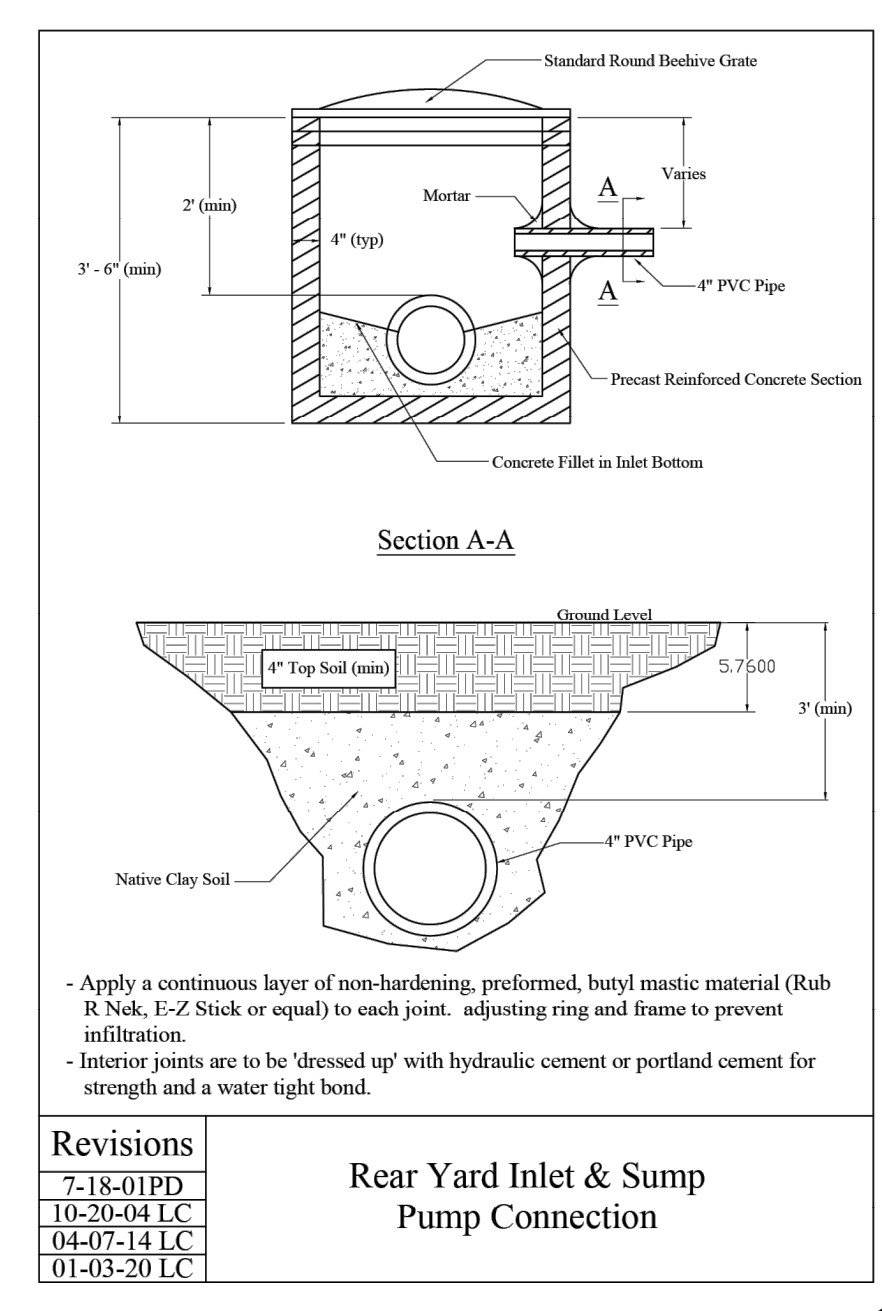
Revisions	DATE	DESCRIPTION
7-18-01 PD		
03-07-06 LC		
03-07-06 LC		
03-19-14 LC		
09-14-07 LC		

Inlet Type 'A'



Revisions	DATE	DESCRIPTION
03-13-03 LC		
03-07-06 LC		
03-19-14 LC		
01-03-20 LC		

Manhole Type 'A'



Revisions	DATE	DESCRIPTION
7-18-01 PD		
10-20-04 LC		
04-07-14 LC		
01-03-20 LC		

Rear Yard Inlet & Sump Pump Connection



4201 WINFIELD ROAD
SUITE 600
WARRENVILLE, IL 60555
TEL (630) 487-5550



DATE:	SCALE:	
11/22/2024	NTS	
DRAWN BY:	CHECKED BY:	
JRH	JY	
REV.	DATE	DESCRIPTION

0 11/22/2024 ISSUED FOR BID

DRAINAGE DETAILS
PROJECT: CONSTRUCT REPLACEMENT PARALLEL TAXIWAY AND REPLACE AIRPORT ROTATING BEACON VILLAGE OF BOLINGBROOK BOLINGBROOK, WILL COUNTY, ILLINOIS



DRAWING NO. CG-501
PROJECT NUMBER: 168001005

K:\GIS\Aviation\168001005 - 105 - Construct Parallel Taxiway\Coord\Plans\168001005-CC-Grading\Drawings - Details\Drawing - Inlets - 11/21/2024 - 4:54 PM - THIS RECORD CONTAINS SENSITIVE SECURITY INFORMATION THAT IS CONTROLLED IN 49 CFR PART 1520. NO PART OF THIS RECORD MAY BE DISCLOSED TO PERSONS WITHOUT A "NEED TO KNOW", AS DIRECTED IN 49 CFR PART 1520, EXCEPT WITH THE WRITTEN PERMISSION OF THE ADMINISTRATOR, THE TRANSPORTATION SECURITY ADMINISTRATION OR THE SECRETARY OF TRANSPORTATION. UNAUTHORIZED RELEASE MAY RESULT IN CIVIL PENALTY OR OTHER ACTION. FOR US GOVERNMENT AGENCIES, PUBLIC DISCLOSURE IS GOVERNED BY 5 U.S.C. 552 AND 49 CFR PART 1520.



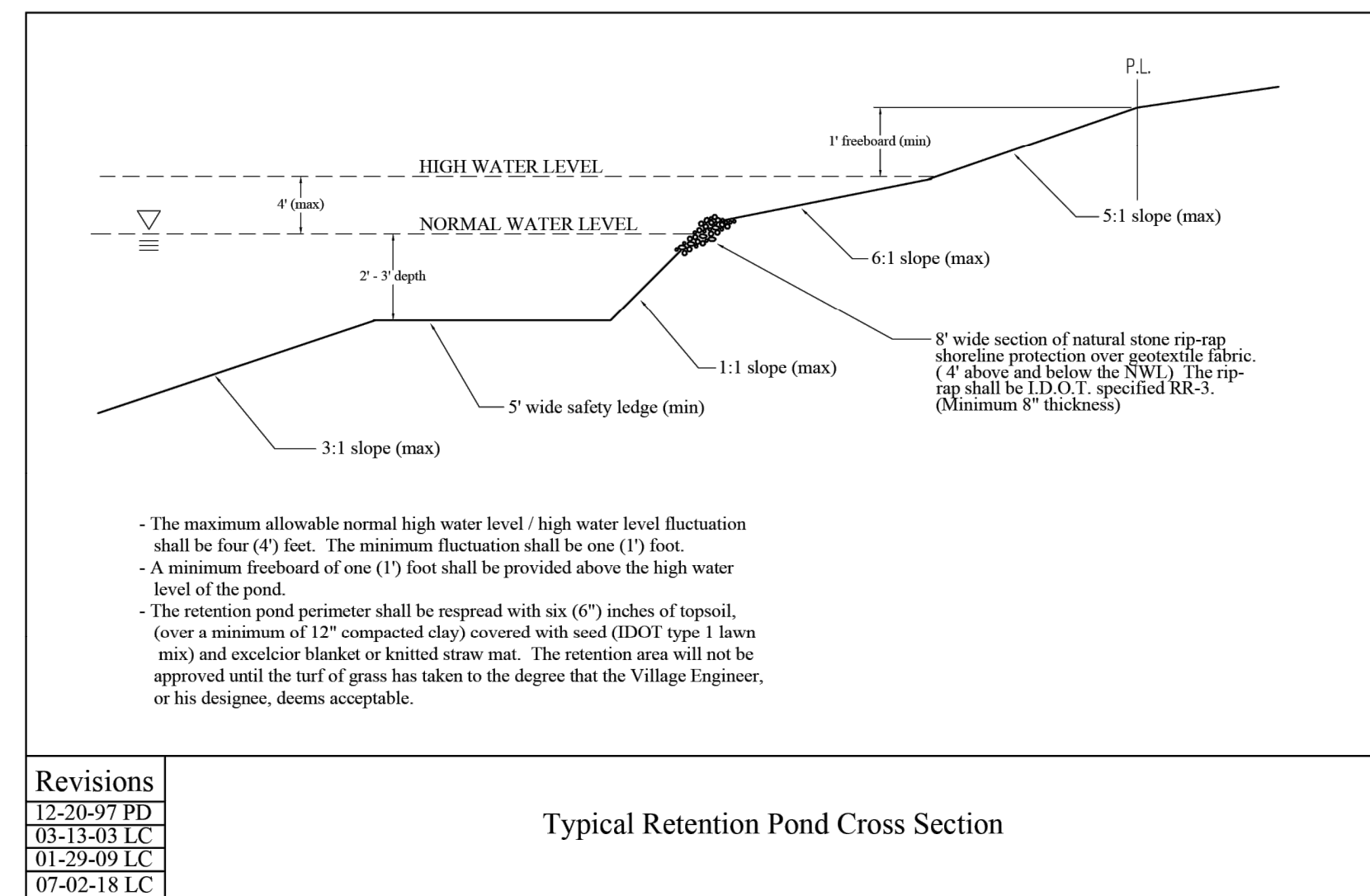
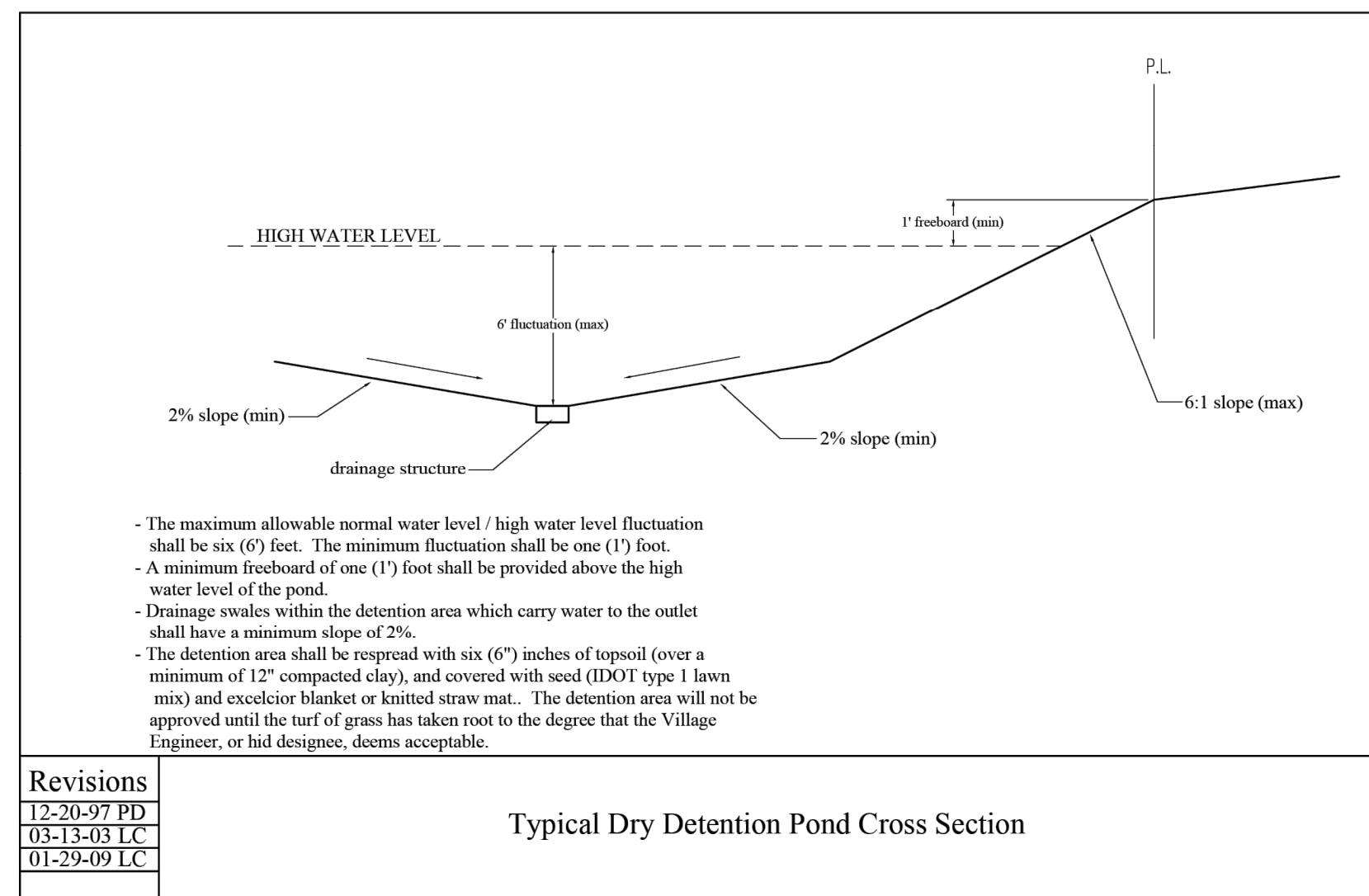
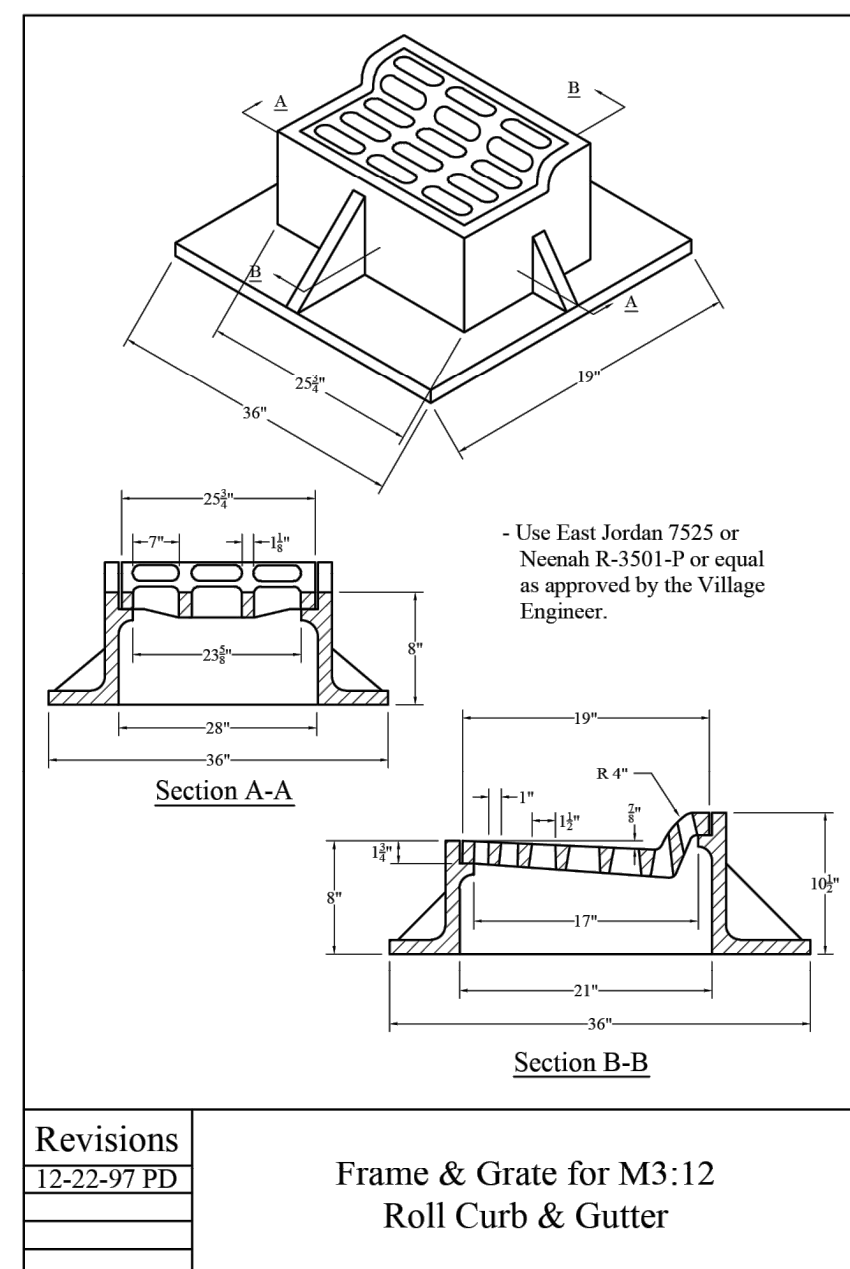
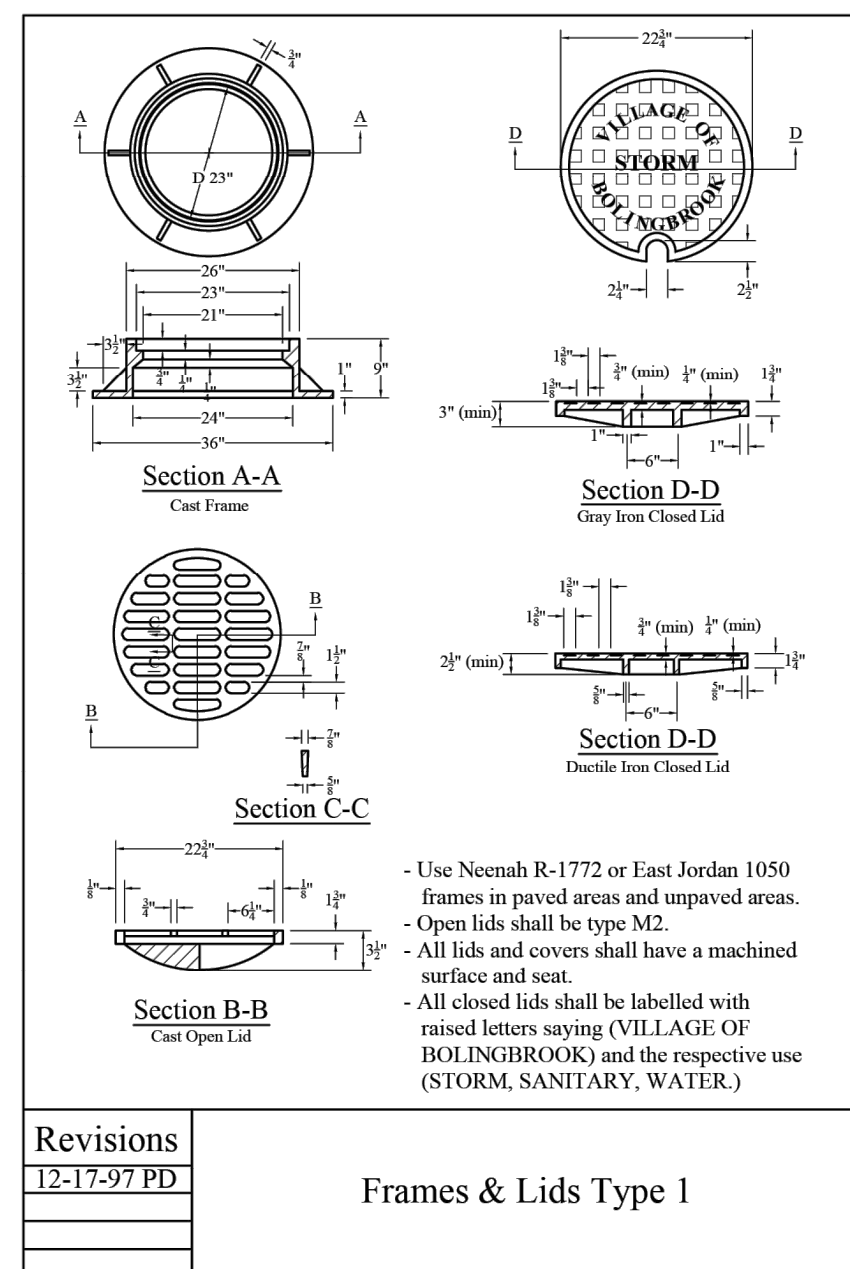
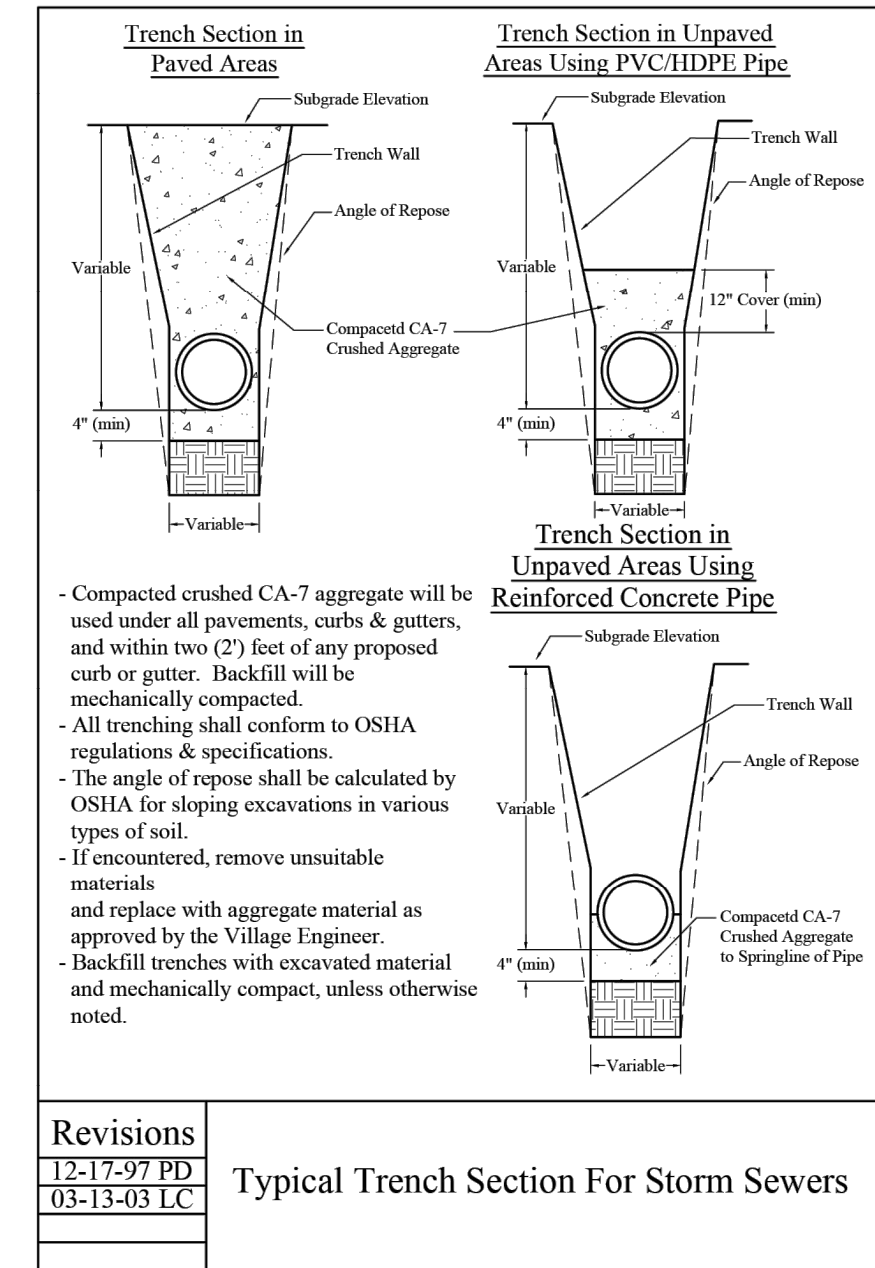
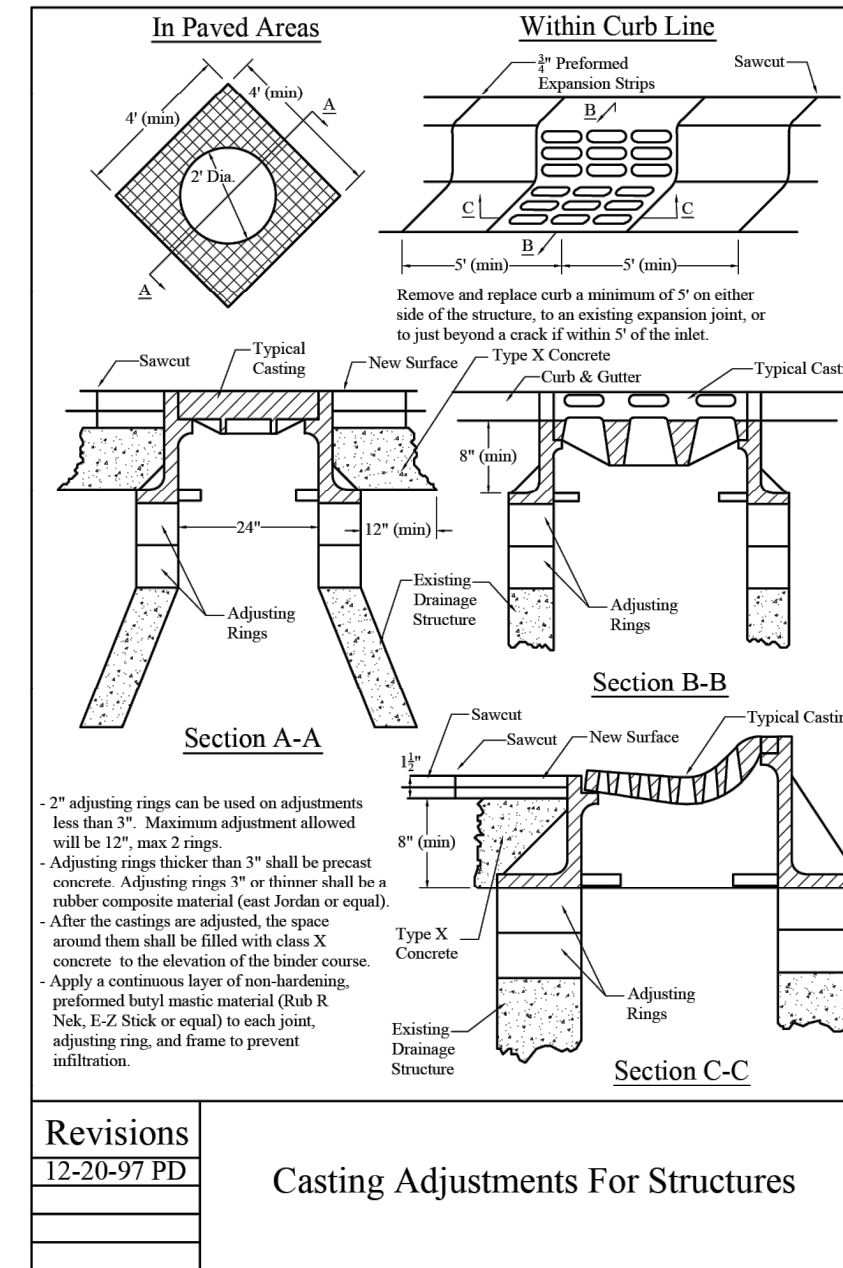
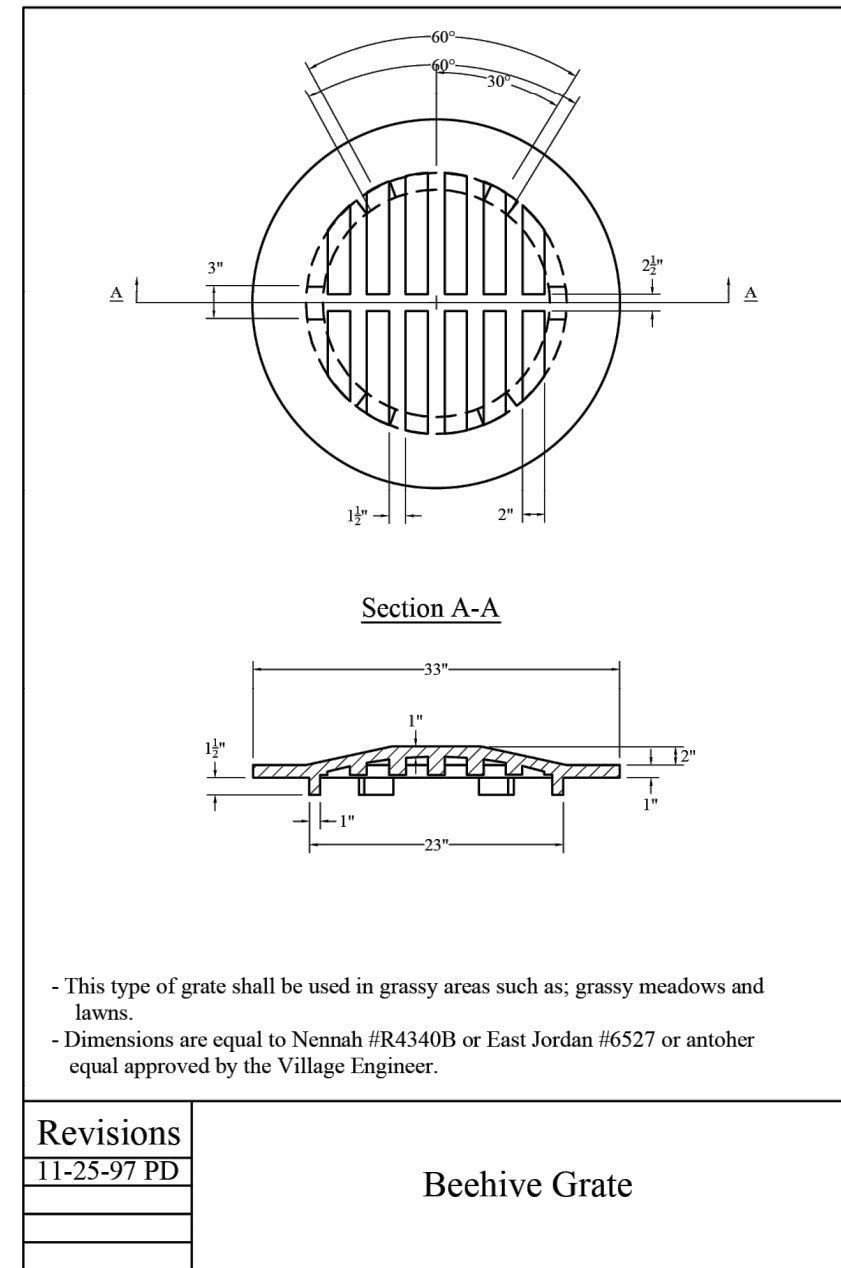
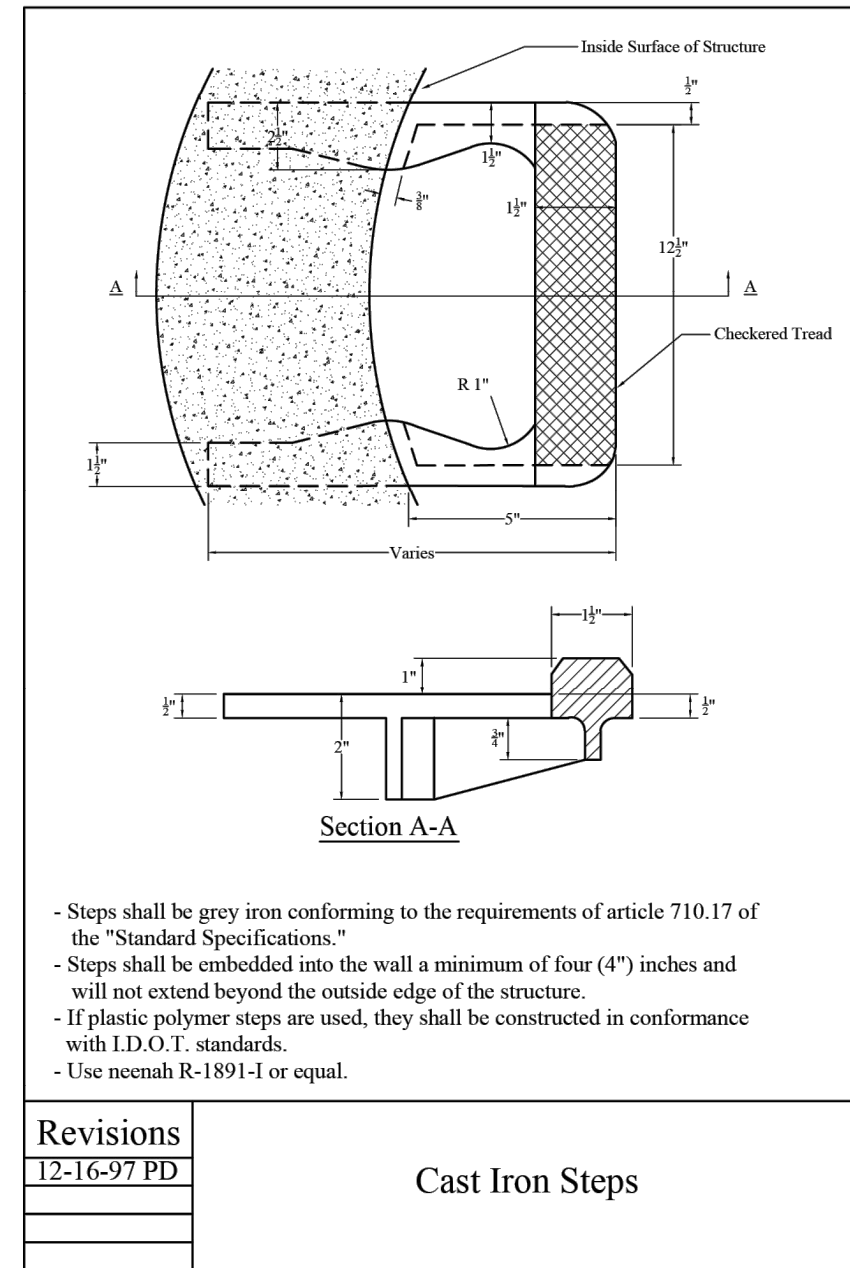
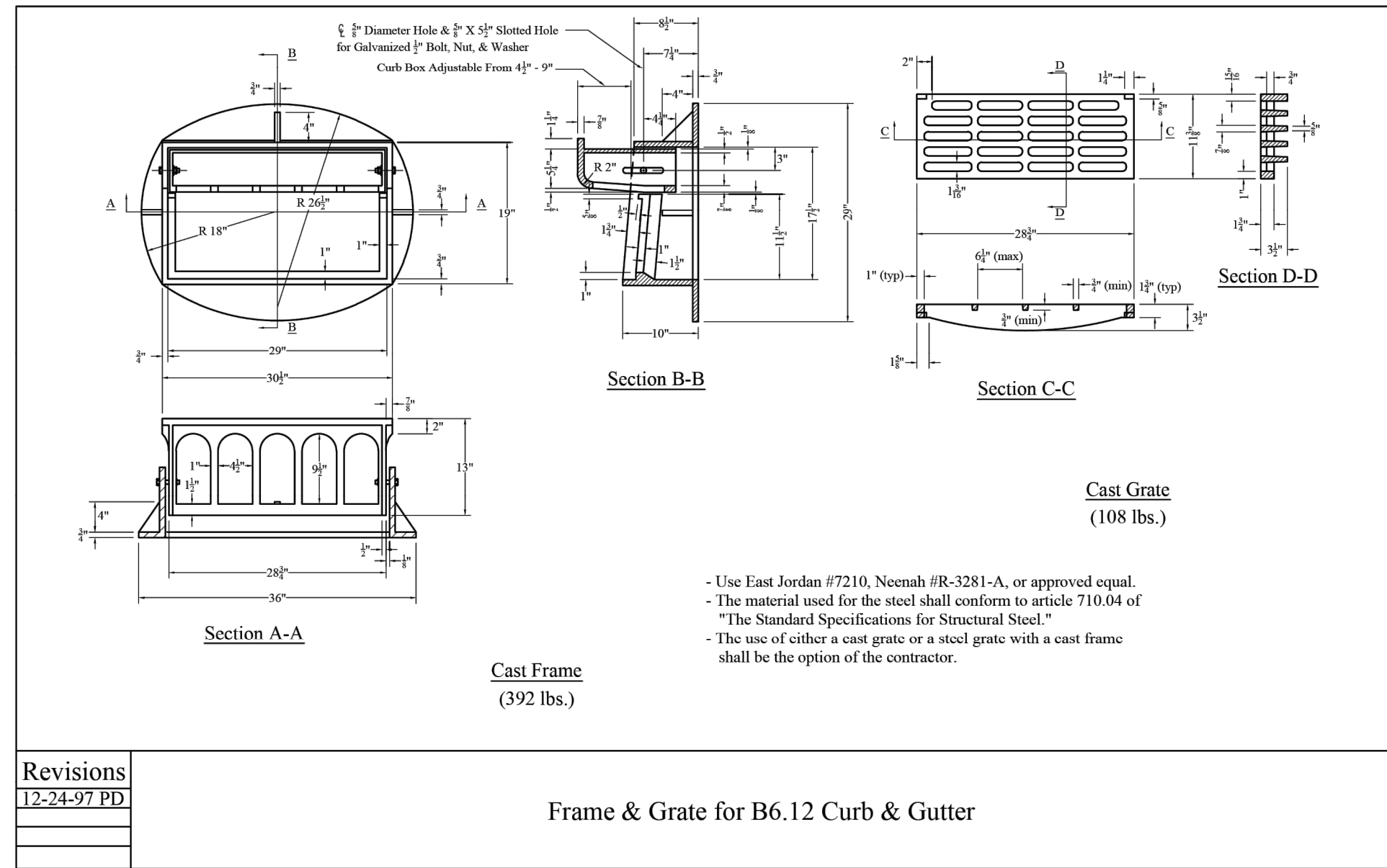
Bolingbrook

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Storm Sewer Standards 2

Sheet 6

01-03-20



DATE:	11/22/2024	SCALE:	NTS
DRAWN BY:	JRH	CHECKED BY:	JY
REV.	DATE	DESCRIPTION	
0	11/22/2024	ISSUED FOR BID	

TITLE: DRAINAGE DETAILS

PROJECT: CONSTRUCT REPLACEMENT PARALLEL TAXIWAY AND REPLACE AIRPORT ROTATING BEACON VILLAGE OF BOLINGBROOK BOLINGBROOK, WILL COUNTY, ILLINOIS

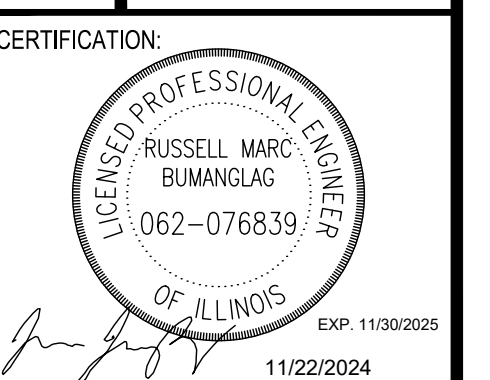
CERTIFICATION:

DRAWING NO.: CG-502

PROJECT NUMBER: 168001005

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 Bolingbrook, Illinois
 THIS RECORD CONTAINS SENSITIVE SECURITY INFORMATION THAT IS CONTROLLED IN 49 CFR PART 1520. NO PART OF THIS RECORD MAY BE DISCLOSED TO PERSONS WITHOUT A "NEED TO KNOW", AS DIRECTED IN 49 CFR PART 1520, EXCEPT WITH THE WRITTEN PERMISSION OF THE ADMINISTRATOR, THE TRANSPORTATION SECURITY ADMINISTRATION OR THE SECRETARY OF TRANSPORTATION. UNAUTHORIZED RELEASE MAY RESULT IN CIVIL PENALTY OR OTHER ACTION. FOR US GOVERNMENT AGENCIES, PUBLIC DISCLOSURE IS GOVERNED BY 5 U.S.C. 552 AND 49 CFR PART 1520.

TITLE: UNDERDRAIN PLAN
 PROJECT: CONSTRUCT REPLACEMENT PARALLEL TAXIWAY AND REPLACE AIRPORT ROTATING BEACON VILLAGE OF BOLINGBROOK
 BOLINGBROOK, WILL COUNTY, ILLINOIS



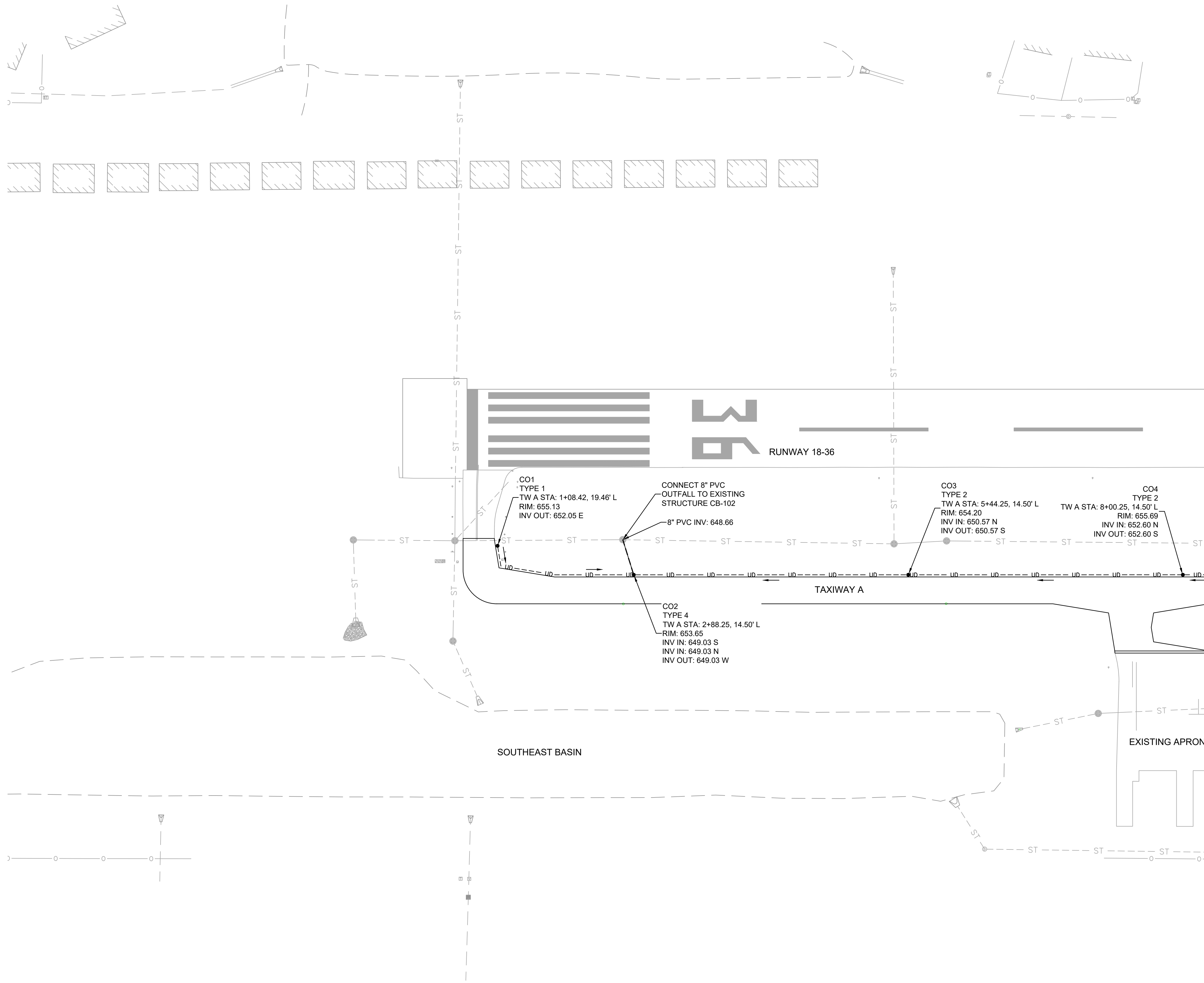
DRAWING NO. **UD-101**
 PROJECT NUMBER: 168001005

LEGEND

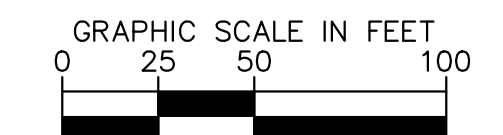
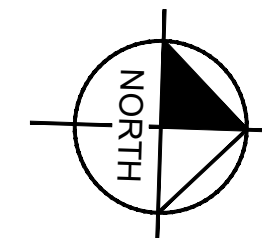
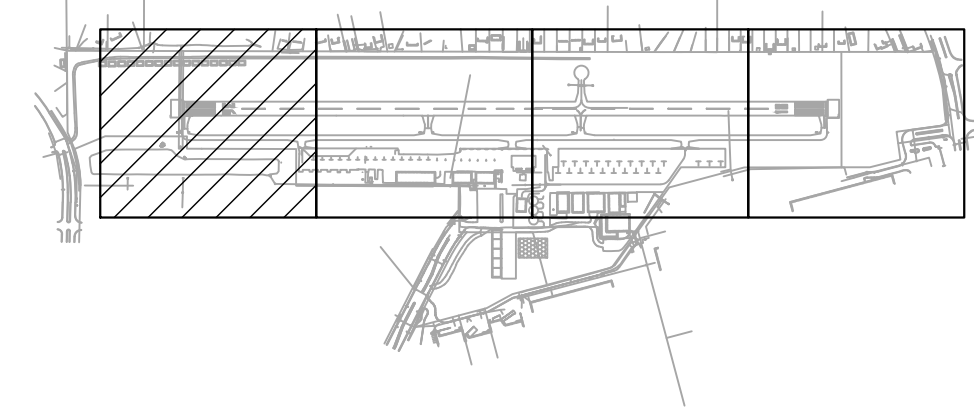
	EXISTING STORM LINE
	PROPOSED STORM SEWER
	PROPOSED 8" UNSLOTTED PVC UNDERDRAIN TO STRUCTURE
	PROPOSED 6" SLOTTED PVC EDGE DRAIN UNDERDRAIN
	PROPOSED UNDERDRAIN EDGE DRAIN CLEANOUT (SEE DETAILS 1 AND 2 ON UD-501)
	EXISTING STORM STRUCTURE
	PROPOSED STORM STRUCTURE
	PROPOSED CAP

GENERAL SHEET NOTES

- REFER TO GRADING AND DRAINAGE PLANS (SERIES CG-100) FOR ADDITIONAL DETAILS ON THE MODIFICATIONS TO THE STORM SEWER SYSTEM.
- THE COST FOR CORING AND CONNECTING TO EXISTING STRUCTURES WILL BE INCIDENTAL TO THE COST OF THE PIPE.



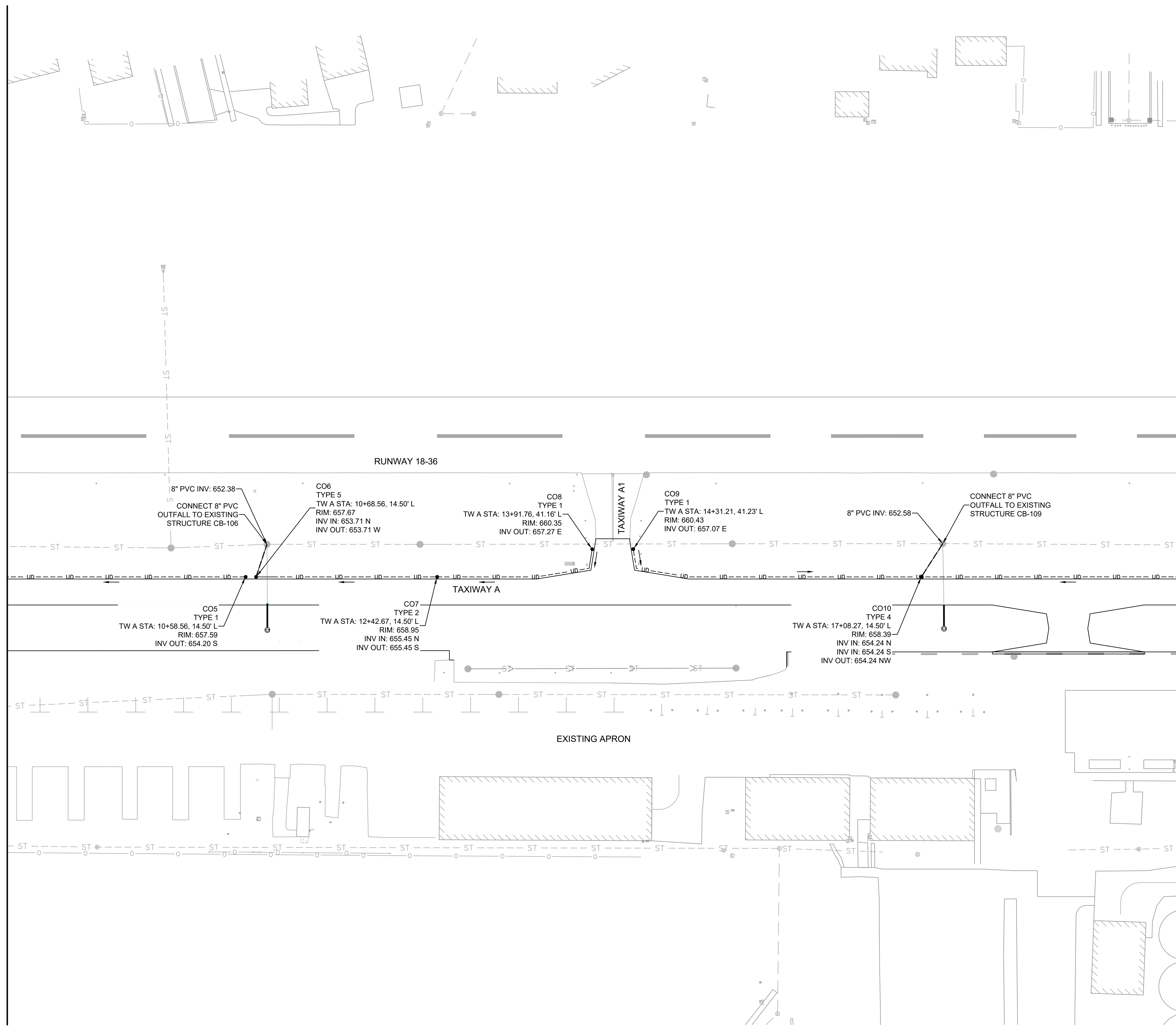
MATCH LINE STA 207+00.00 - SEE SHEET UD-102



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MATCH LINE STA 207+00.00 - SEE SHEET UD-101

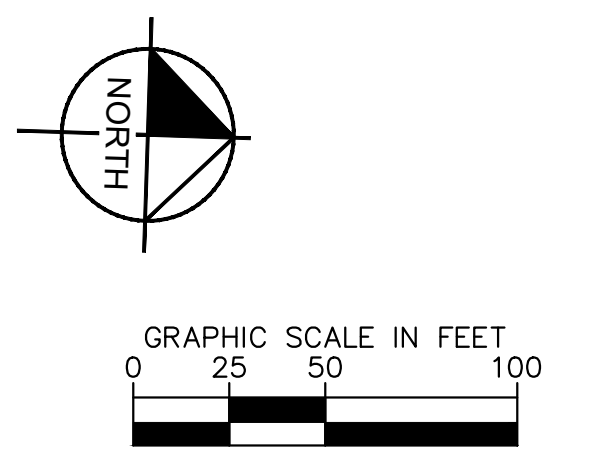
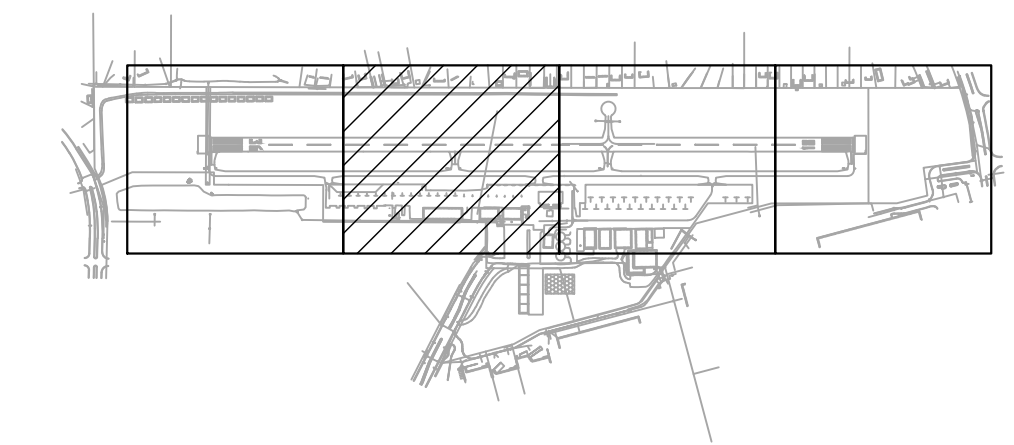
MATCH LINE STA 218+25.00 - SEE SHEET UD-103



LEGEND

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- - - - - UD - - - - - PROPOSED 8" UNSLOTTED PVC UNDERDRAIN TO STRUCTURE
- - - - - UD - - - - - PROPOSED 6" SLOTTED PVC EDGE DRAIN UNDERDRAIN
- PROPOSED UNDERDRAIN EDGE DRAIN CLEANOUT (SEE DETAILS 1 AND 2 ON UD-501)
- ⊙ EXISTING STORM STRUCTURE
- ⊙ PROPOSED STORM STRUCTURE
- ⊙ PROPOSED CAP

- ### GENERAL SHEET NOTES
- REFER TO GRADING AND DRAINAGE PLANS (SERIES CG-100) FOR ADDITIONAL DETAILS ON THE MODIFICATIONS TO THE STORM SEWER SYSTEM.
 - THE COST FOR CORING AND CONNECTING TO EXISTING STRUCTURES WILL BE INCIDENTAL TO THE COST OF THE PIPE.



Kimley»Horn

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 SUITE 600
 WARRENVILLE, IL 60555
 TEL (630) 487-5550

Bolingbrook
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LMB	JY	
REV.	DATE	DESCRIPTION
0	11/22/2024	ISSUED FOR BID

TITLE: UNDERDRAIN PLAN

PROJECT: CONSTRUCT REPLACEMENT PARALLEL TAXIWAY AND REPLACE AIRPORT ROTATING BEACON VILLAGE OF BOLINGBROOK, WILL COUNTY, ILLINOIS

CERTIFICATION:

RUSSELL MARC BUMANGLAG
 LICENSED PROFESSIONAL ENGINEER
 OF ILLINOIS
 062-076839
 EXP. 11/30/2025

11/22/2024

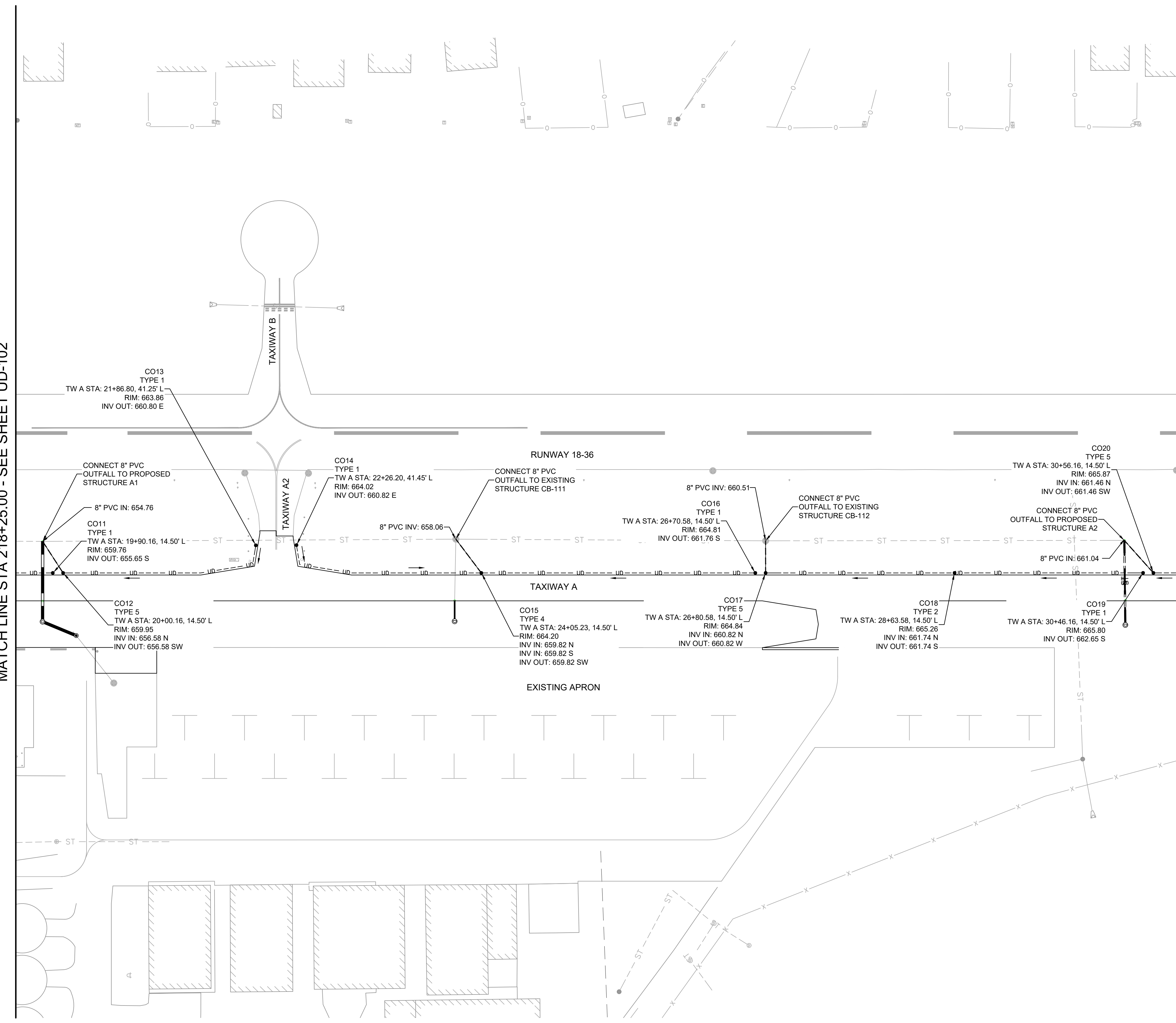
DRAWING NO. **UD-102**

PROJECT NUMBER: 168001005

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MATCH LINE STA 218+25.00 - SEE SHEET UD-102

MATCH LINE STA 229+50.00 - SEE SHEET UD-104



LEGEND

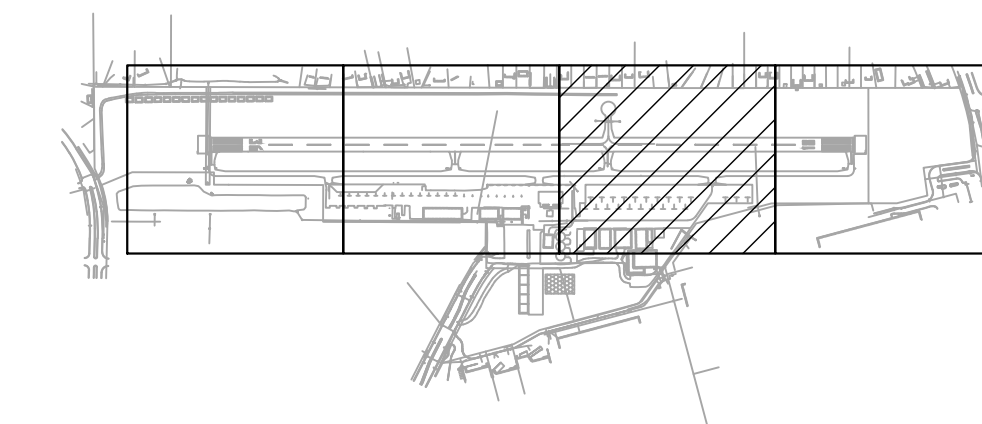
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- PROPOSED STORM SEWER
- PROPOSED 8" UNSLOTTED PVC UNDERDRAIN TO STRUCTURE
- PROPOSED 6" SLOTTED PVC EDGE DRAIN UNDERDRAIN
- PROPOSED UNDERDRAIN EDGE DRAIN CLEANOUT (SEE DETAILS 1 AND 2 ON UD-501)
- EXISTING STORM STRUCTURE
- PROPOSED STORM STRUCTURE
- PROPOSED CAP

- ### GENERAL SHEET NOTES
- REFER TO GRADING AND DRAINAGE PLANS (SERIES CG-100) FOR ADDITIONAL DETAILS ON THE MODIFICATIONS TO THE STORM SEWER SYSTEM.
 - THE COST FOR CORING AND CONNECTING TO EXISTING STRUCTURES WILL BE INCIDENTAL TO THE COST OF THE PIPE.

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GRAPHIC SCALE IN FEET
0 25 50 100



TITLE: UNDERDRAIN PLAN

PROJECT: CONSTRUCT REPLACEMENT PARALLEL TAXIWAY AND REPLACE AIRPORT ROTATING BEACON VILLAGE OF BOLINGBROOK, WILL COUNTY, ILLINOIS

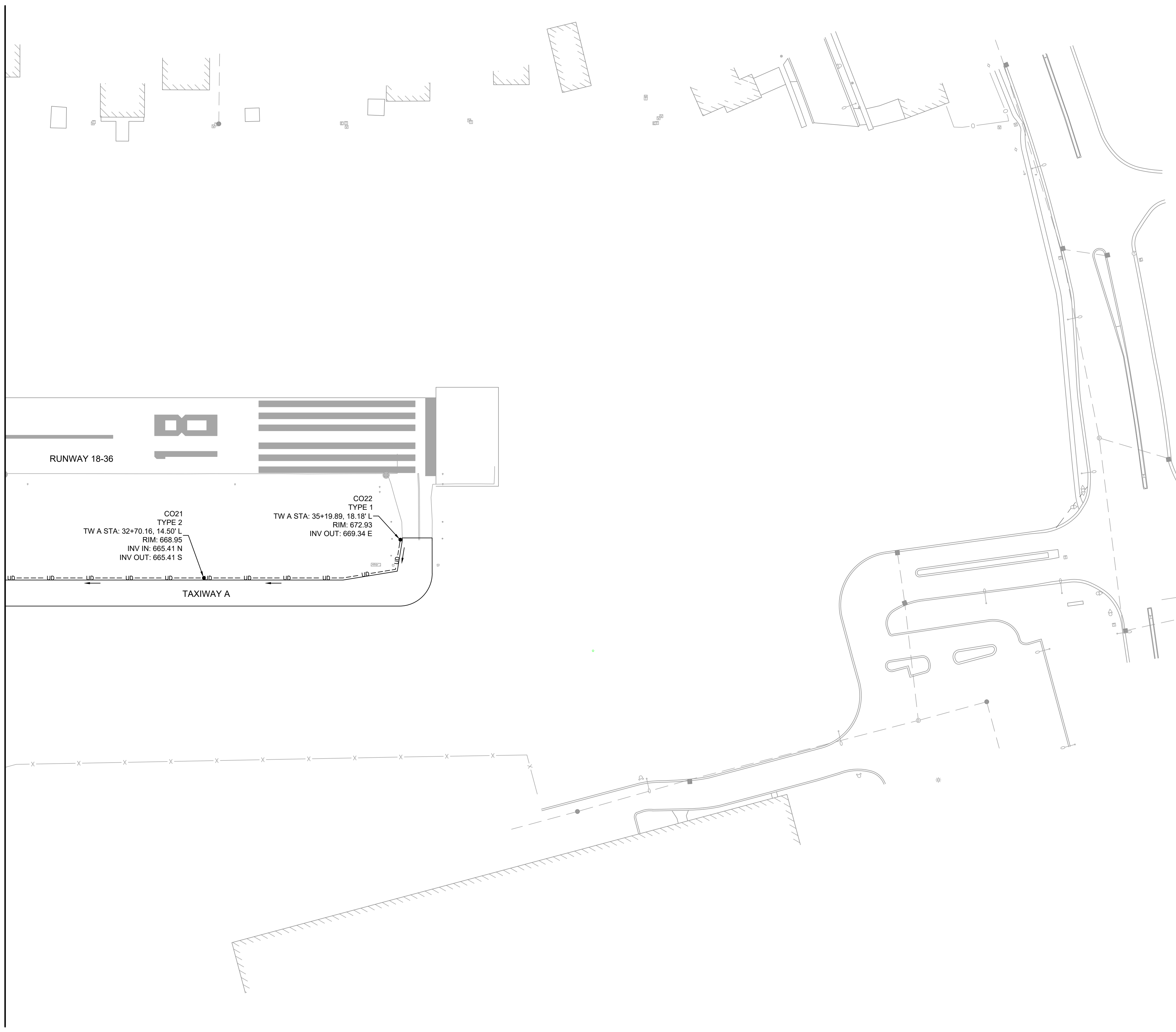
CERTIFICATION:

DRAWING NO. **UD-103**

PROJECT NUMBER: 168001005

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MATCH LINE STA 229+50.00 - SEE SHEET UD-103

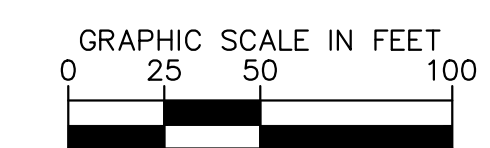
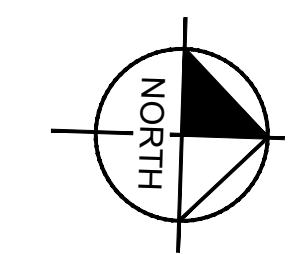
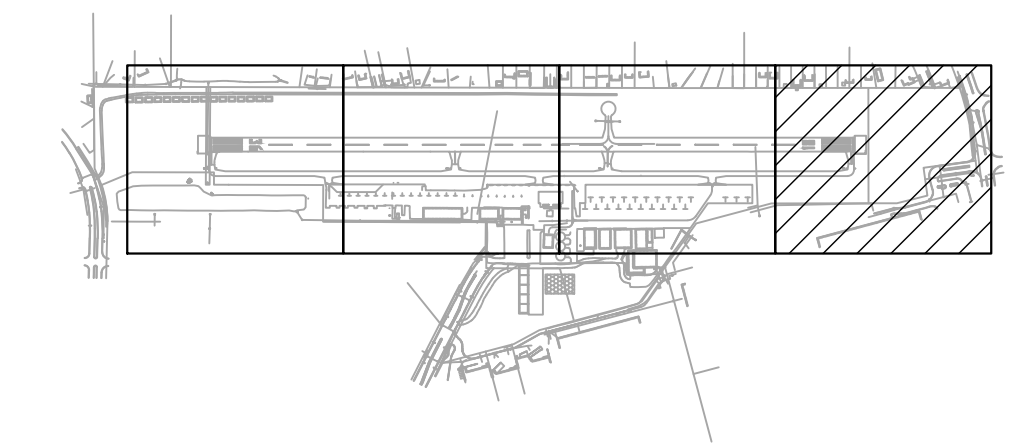


LEGEND

- ST --- ST --- EXISTING STORM LINE
- ===== PROPOSED STORM SEWER
- PROPOSED 8" UNSLOTTED PVC UNDERDRAIN TO STRUCTURE
- UD --- UD --- PROPOSED 6" SLOTTED PVC EDGE DRAIN UNDERDRAIN
- PROPOSED UNDERDRAIN EDGE DRAIN CLEANOUT (SEE DETAILS 1 AND 2 ON UD-501)
- ⊕ ⊙ EXISTING STORM STRUCTURE
- ⊕ ⊙ PROPOSED STORM STRUCTURE
- ⊕ PROPOSED CAP

GENERAL SHEET NOTES

1. REFER TO GRADING AND DRAINAGE PLANS (SERIES CG-100) FOR ADDITIONAL DETAILS ON THE MODIFICATIONS TO THE STORM SEWER SYSTEM.
2. THE COST FOR CORING AND CONNECTING TO EXISTING STRUCTURES WILL BE INCIDENTAL TO THE COST OF THE PIPE.

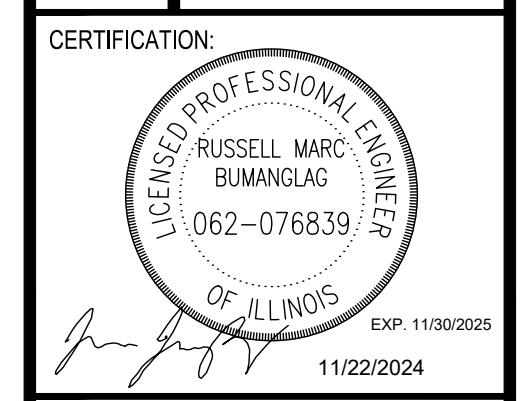


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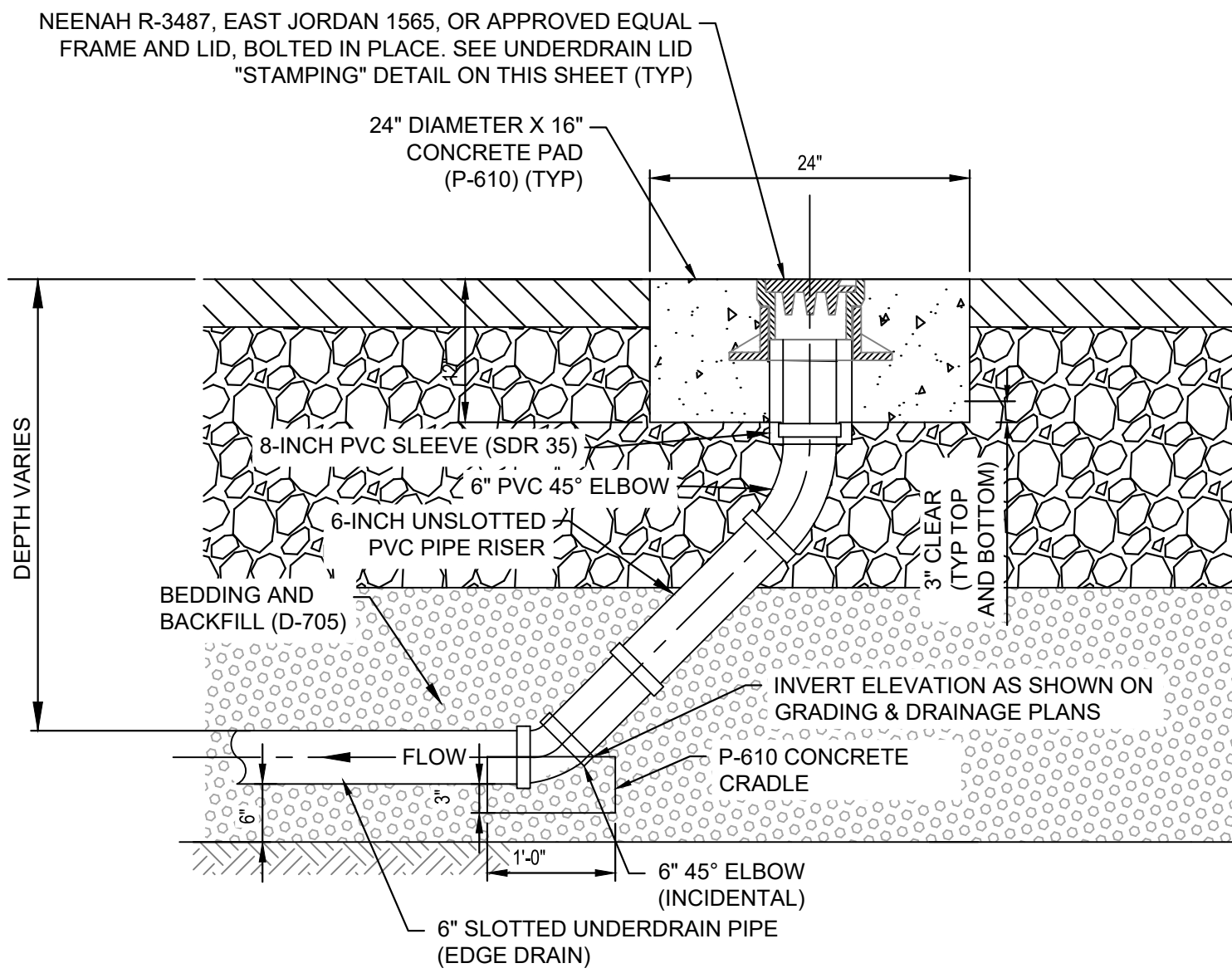
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REV.	DATE	DESCRIPTION	
0	11/22/2024	ISSUED FOR BID	

TITLE: UNDERDRAIN PLAN
PROJECT: CONSTRUCT REPLACEMENT PARALLEL TAXIWAY AND REPLACE AIRPORT ROTATING BEACON VILLAGE OF BOLINGBROOK BOLINGBROOK, WILL COUNTY, ILLINOIS

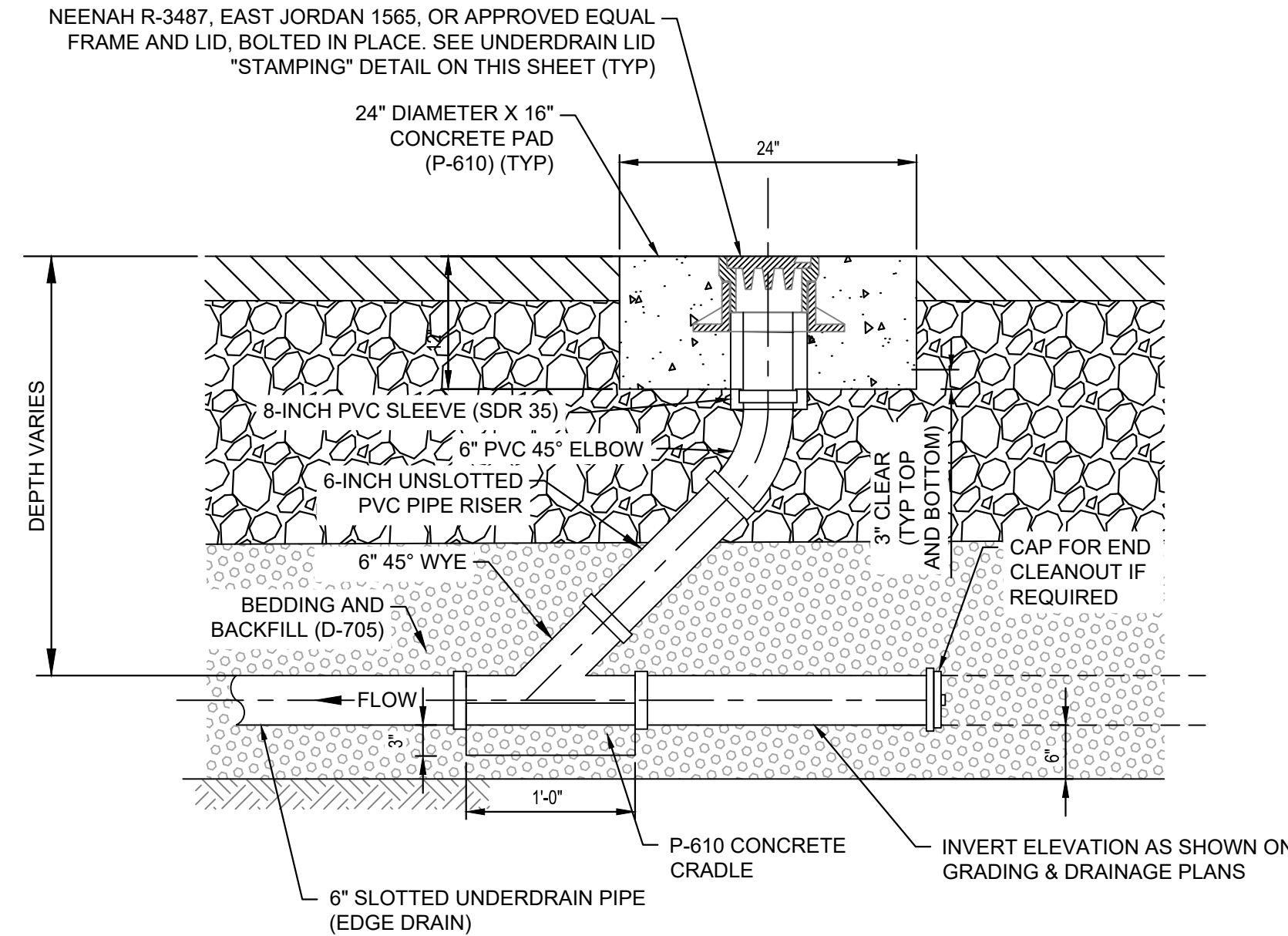


DRAWING NO.: UD-104
PROJECT NUMBER: 168001005

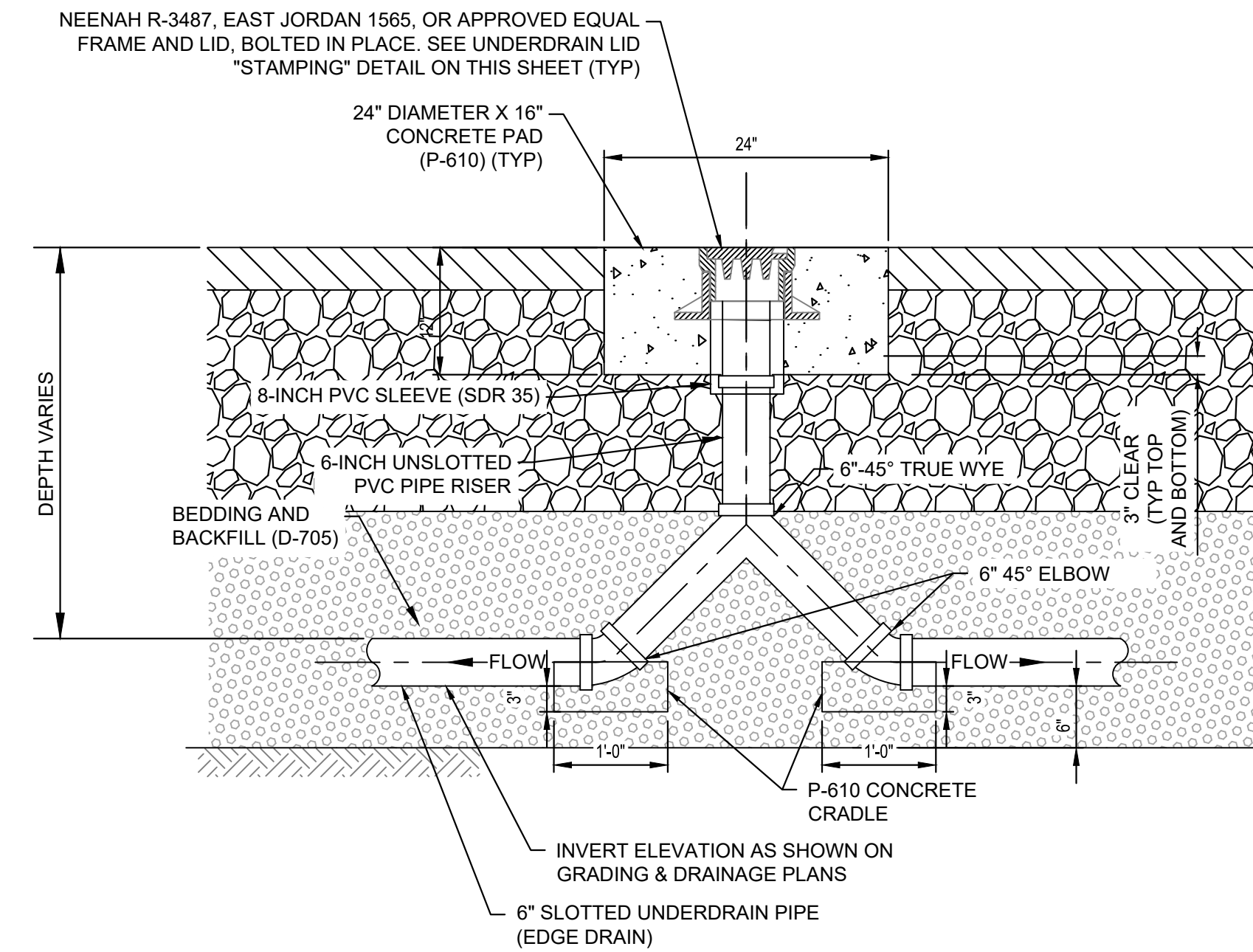
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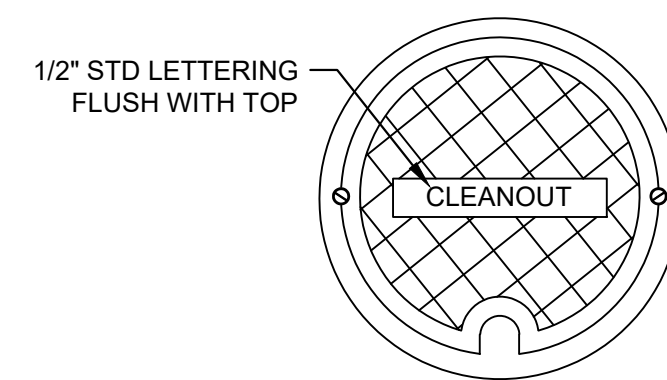
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UD-501 NTS
LONGITUDINAL UNDERDRAIN
CLEANOUT DETAIL - TYPE 1



2
UD-501 NTS
LONGITUDINAL UNDERDRAIN
CLEANOUT DETAIL - TYPE 2



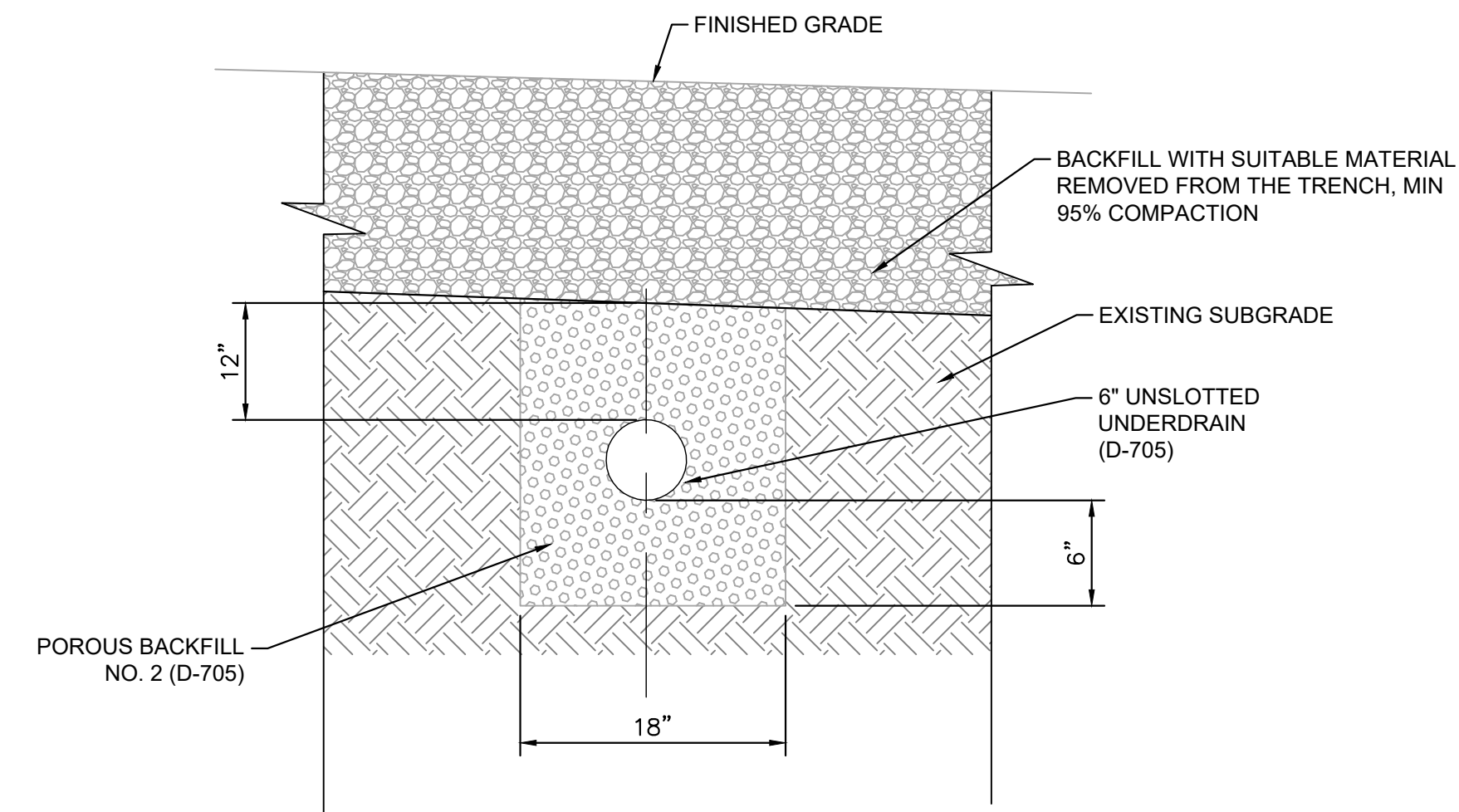
3
UD-501 NTS
LONGITUDINAL UNDERDRAIN
CLEANOUT DETAIL - TYPE 3



3
UD-501 NTS
UNDERDRAIN CLEANOUT LID
'STAMPING' DETAIL

NOTES:

- ALL UNDERDRAIN CLEANOUT LIDS SHALL BE STAMPED "CLEANOUT" WITH 1/2" LETTERS.



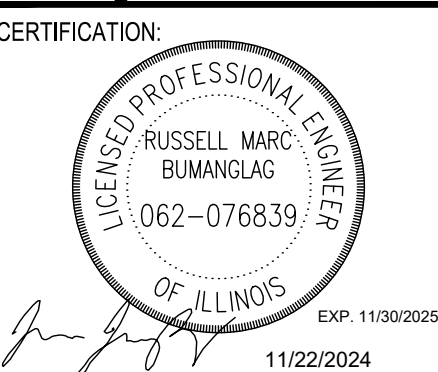
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UD-501 NTS
6" UNSLOTTED PVC TRENCH
DETAIL

NOTES:

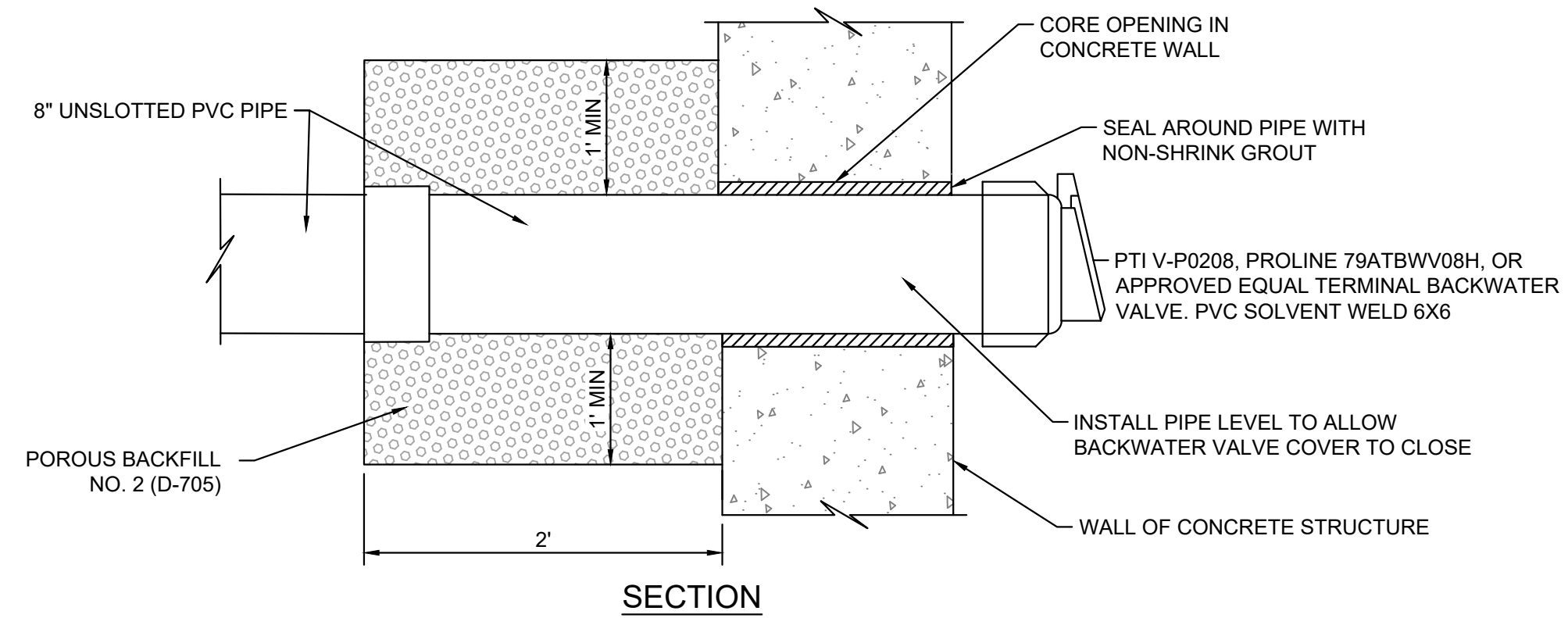
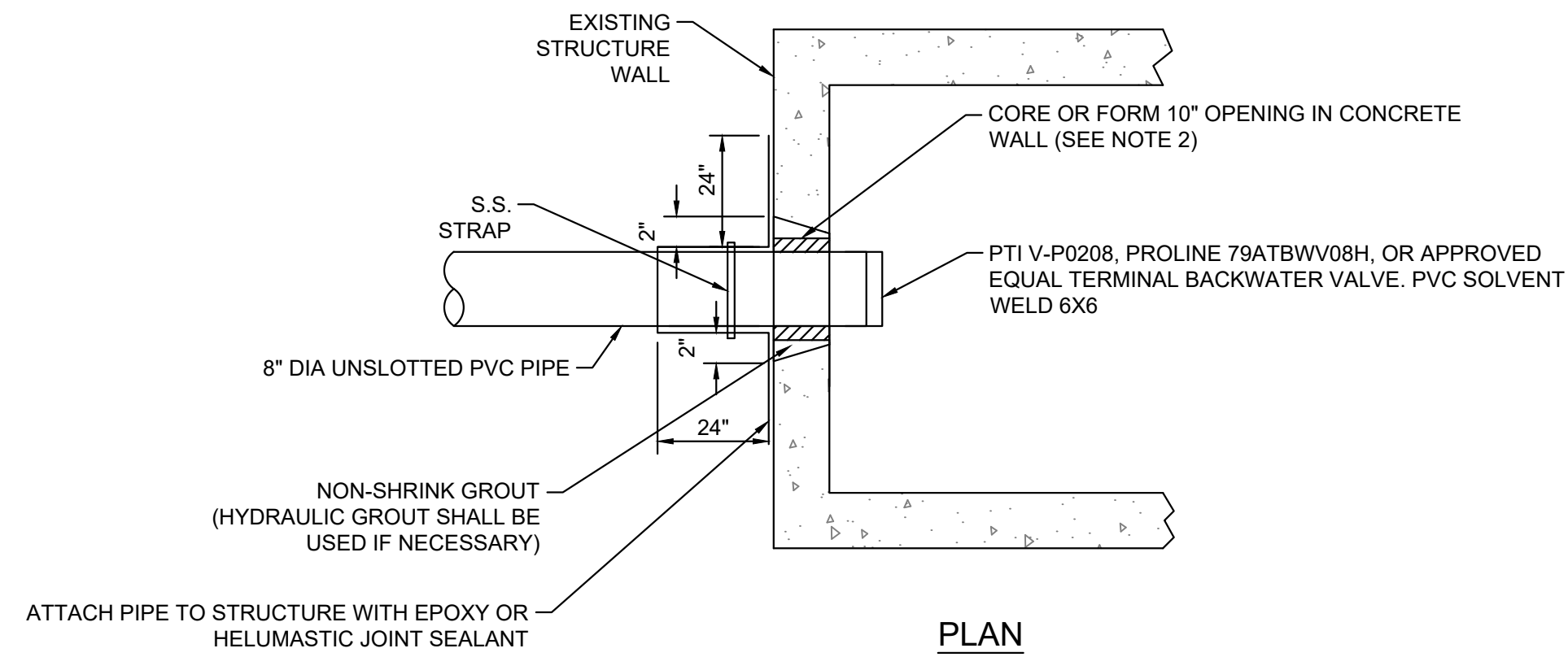
- WIDTH OF UNDERDRAIN INSTALLATION TRENCH MAY VARY DUE TO OSHA REQUIREMENTS, SITE CONDITIONS, AND INSTALLATION METHOD, CONTRACTOR SHALL ADJUST TRENCH WIDTH ACCORDINGLY.
- PVC OUTLET PIPES SHALL BE INSTALLED AT A MINIMUM SLOPE OF 0.3%.

DATE: 11/22/2024	SCALE: NTS
DRAWN BY: LMB	CHECKED BY: JY
REV. DATE DESCRIPTION	
0 11/22/2024 ISSUED FOR BID	

TITLE: UNDERDRAIN DETAILS
PROJECT: CONSTRUCT REPLACEMENT PARALLEL TAXIWAY AND REPLACE AIRPORT ROTATING BEACON VILLAGE OF BOLINGBROOK BOLINGBROOK, WILL COUNTY, ILLINOIS



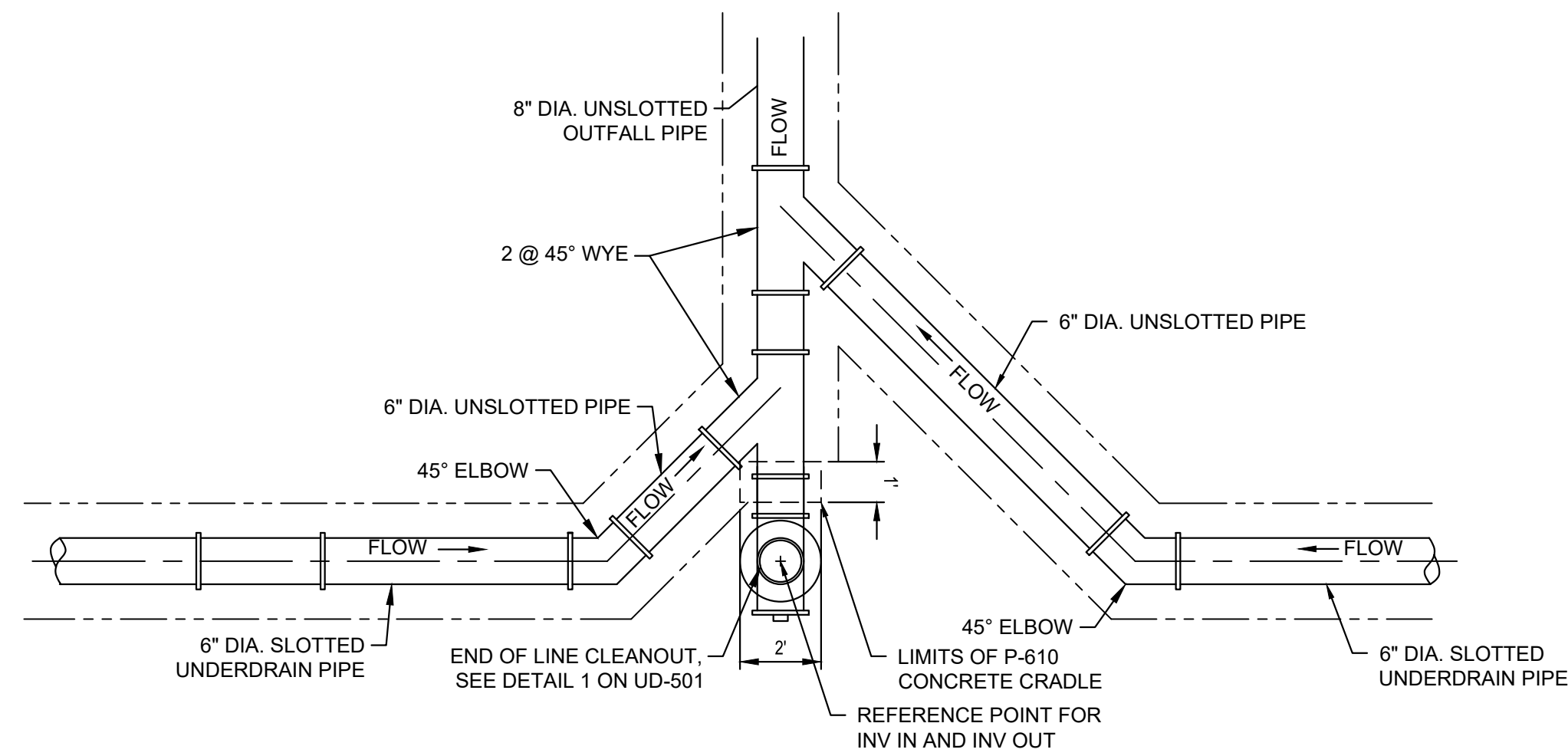
DRAWING NO.
UD-501
PROJECT NUMBER:
168001005



1 UNDERDRAIN OUTLET CONNECTION TO STRUCTURE DETAIL
UD-502 NTS

NOTES:

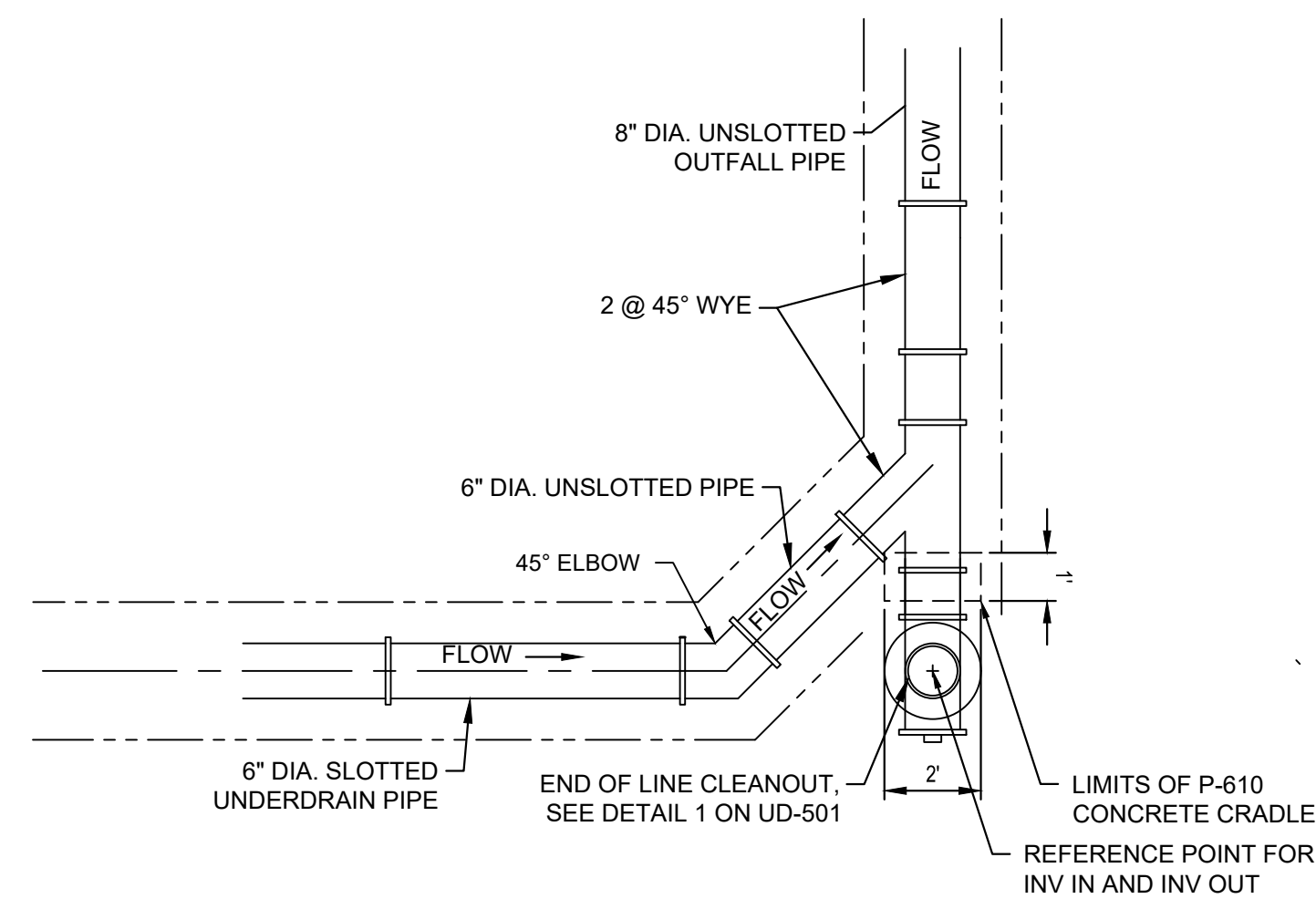
- BACKWATER VALVE TO BE INCIDENTAL TO PIPE (D-705-5.3)
- FOR 2" DIA UNSLOTTED PVC PIPE USED IN ELECTRICAL STRUCTURE OUTLETS, CORE SHALL BE 4" IN DIA AND BACKWATER VALVE SHALL BE EXCLUDED
- FOR 6" DIA UNSLOTTED PVC PIPE USED IN HYDRANT STRUCTURE OUTLETS, CORE SHALL BE 10" IN DIA AND BACKWATER VALVE SHALL BE EXCLUDED.



2 PLAN VIEW UNDERDRAIN CLEANOUT OUTFALL DETAIL - TYPE 4
UD-502 NTS

NOTES:

- DETAIL REFLECTS A 90 DEGREE ANGLE. FIELD CONDITIONS MAY WARRANT A DIFFERENT ANGLE DURING CONSTRUCTION.
- FOR CLARITY IN THIS DETAIL, CONCRETE CRADLE HAS NOT BEEN SHOWN. THIS SHALL BE INSTALLED FOR TYPE 4 CLEANOUTS WHERE FITTINGS CONNECT TO SLOTTED UNDERDRAIN PIPES.



3 PLAN VIEW UNDERDRAIN CLEANOUT OUTFALL DETAIL - TYPE 5
UD-502 NTS

NOTES:

- DETAIL REFLECTS A 90 DEGREE ANGLE. FIELD CONDITIONS MAY WARRANT A DIFFERENT ANGLE DURING CONSTRUCTION.
- FOR CLARITY IN THIS DETAIL, THE P-610 CONCRETE CRADLE HAS NOT BEEN SHOWN. THIS SHALL BE INSTALLED FOR TYPE 4 CLEANOUTS WHERE FITTINGS CONNECT TO PERFORATED UNDERDRAIN PIPES.

UNDERDRAIN DETAILS

PROJECT:
CONSTRUCT REPLACEMENT PARALLEL TAXIWAY AND
REPLACE AIRPORT ROTATING BEACON
VILLAGE OF BOLINGBROOK
BOLINGBROOK, WILL COUNTY, ILLINOIS

CERTIFICATION:



DRAWING NO.

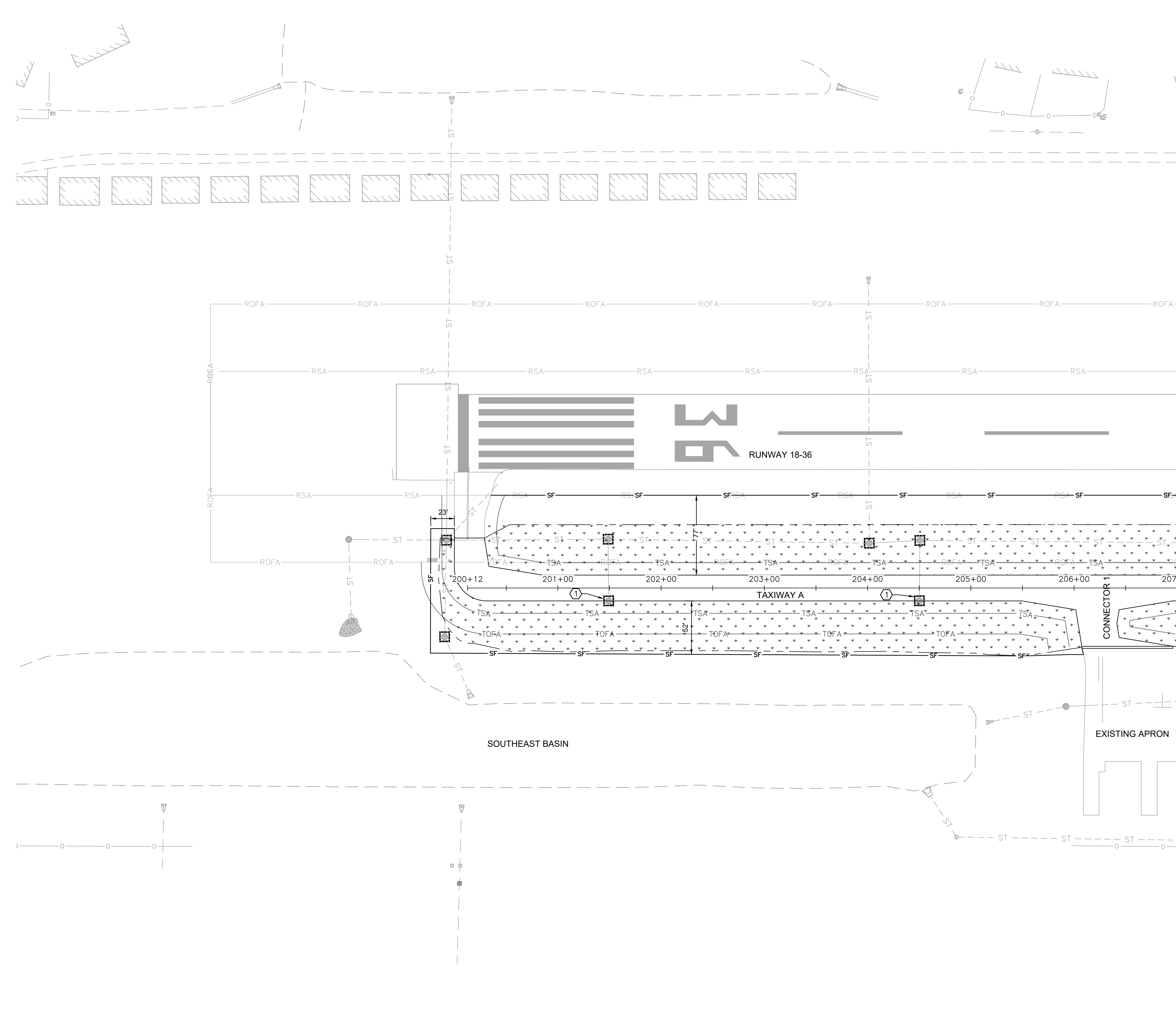
UD-502

PROJECT NUMBER:

168001005

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MATCH LINE STA 207+00.00 - SEE SHEET EC-102

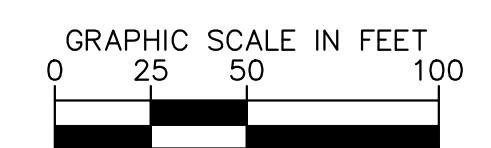
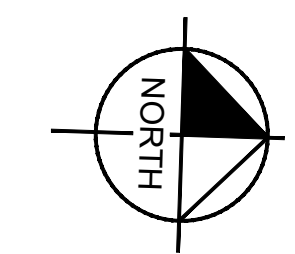
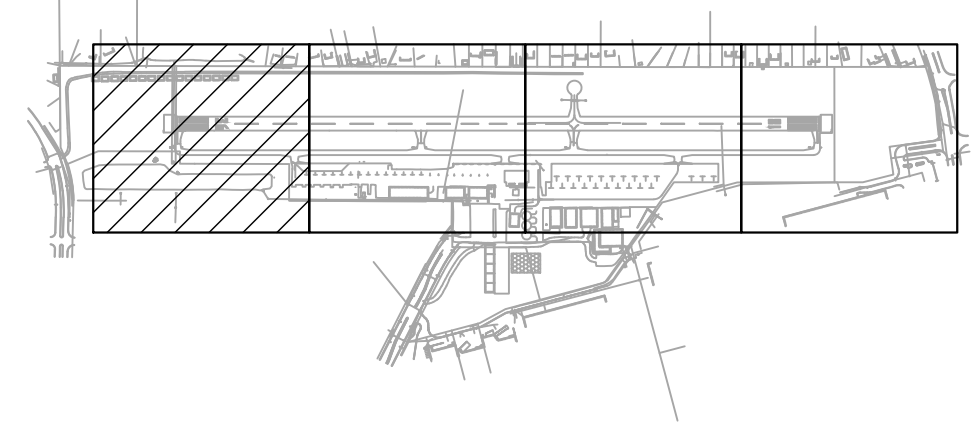
LEGEND

	PERMANENT SEEDING (T-901) AND HYDROMULCH (T-905)
	INLET PROTECTION PER DETAIL 1/EC-501
	SILT FENCE PER DETAIL 2/EC-501
	EXISTING STORM SEWER STRUCTURE
	PROPOSED STAGING AREA LIMITS

- GENERAL NOTES**
- REFER TO CG-101 THROUGH CG-104 FOR DISTURBANCE, TOP SOIL AND SEEDING LIMITS.
 - CONSTRUCTION ENTRANCES, WASH OUT AND STOCKPILE LOCATIONS CAN BE FOUND ON PH-101 THROUGH PH-103.
 - THE CONTRACTOR IS RESPONSIBLE FOR ESTABLISHING AND MAINTAINING BEST MANAGEMENT PRACTICES DURING CONSTRUCTION.
 - TEMPORARY SEDIMENT SWALES AND TRAPS TO BE CLEANED, GRADED AND SEEDED PER THE PLANS.
 - PROVIDE DOUBLE ROW SILT FENCE AROUND THE BASE OF ALL STOCKPILES (INCIDENTAL TO ITEM AR156510).
 - INLET PROTECTION TO BE PROVIDED FOR NEWLY CONSTRUCTED DRAINAGE STRUCTURES.
 - MEASURES SHOWN ON THESE PLANS MAY BE MODIFIED BY THE ENGINEER IN THE FIELD.
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 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR MEETING THE NATIONAL ENVIRONMENTAL POLICY ACT (NEPA) REQUIREMENTS, INCLUDING BUT NOT LIMITED TO, THE STORMWATER MANAGEMENT PLAN (SWMP), NOTICE OF INTENT (NOI), AND THE SPILL PREVENTION, CONTROL AND COUNTERMEASURE PLAN (SPCC).
 - IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN AND PAY FOR ALL APPLICABLE PERMITS, FEES, AND LICENSES FOR CONSTRUCTION AND EQUIPMENT.

CONSTRUCTION NOTES

① TYPICAL INLET APPLIES FOR THE ENTIRE DURATION THAT THE STRUCTURE EXISTS IN PLACE

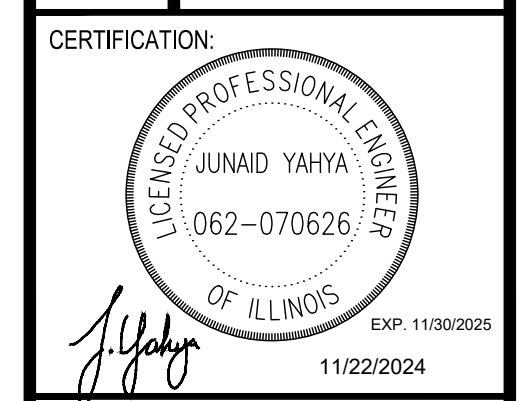


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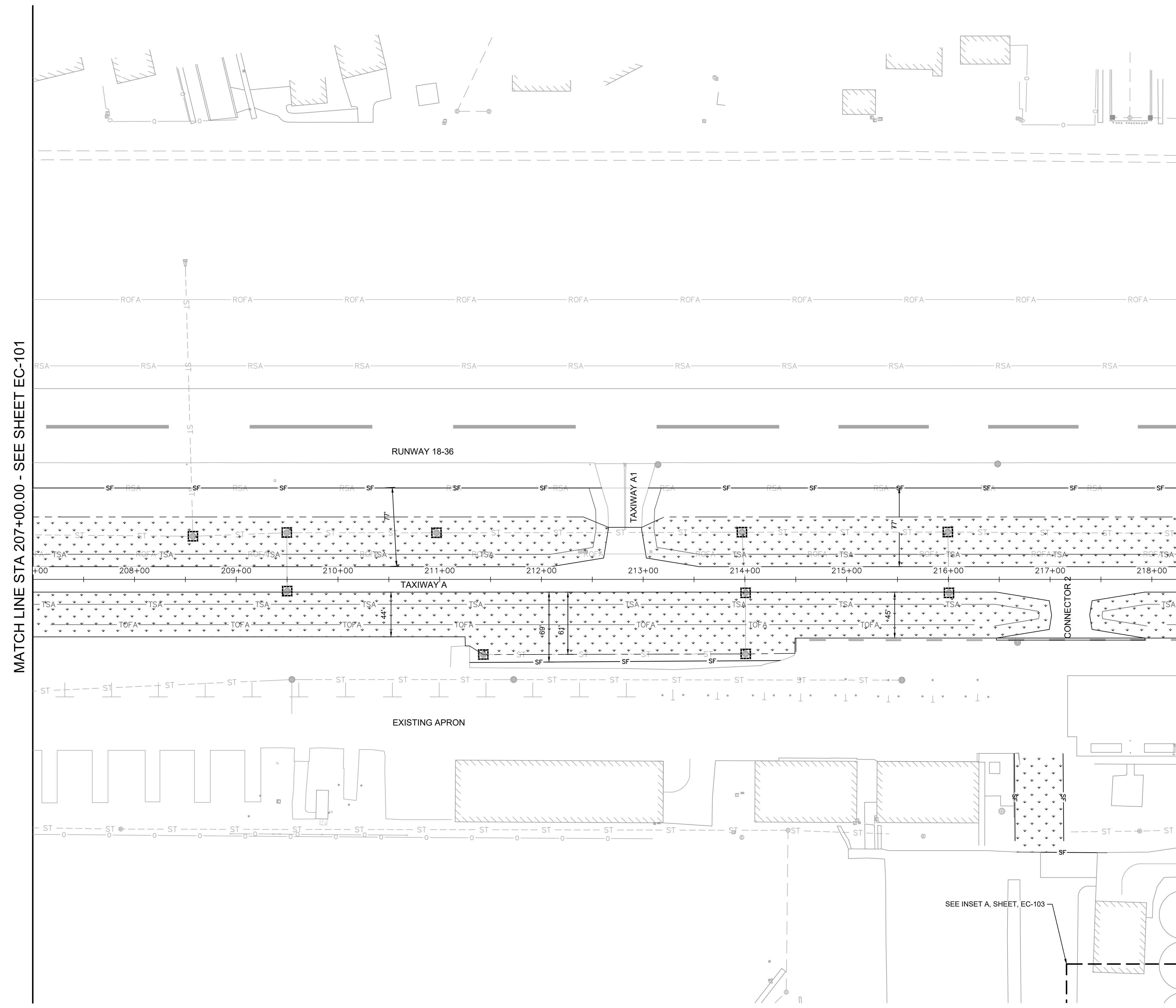
TITLE: EROSION CONTROL PLAN
PROJECT: CONSTRUCT REPLACEMENT PARALLEL TAXIWAY AND REPLACE AIRPORT ROTATING BEACON VILLAGE OF BOLINGBROOK BOLINGBROOK, WILL COUNTY, ILLINOIS



DRAWING NO. **EC-101**

PROJECT NUMBER: 168001005

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MATCH LINE STA 207+00.00 - SEE SHEET EC-101

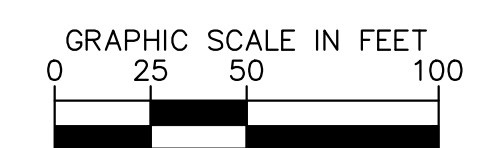
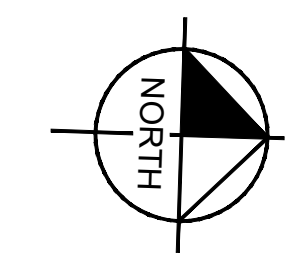
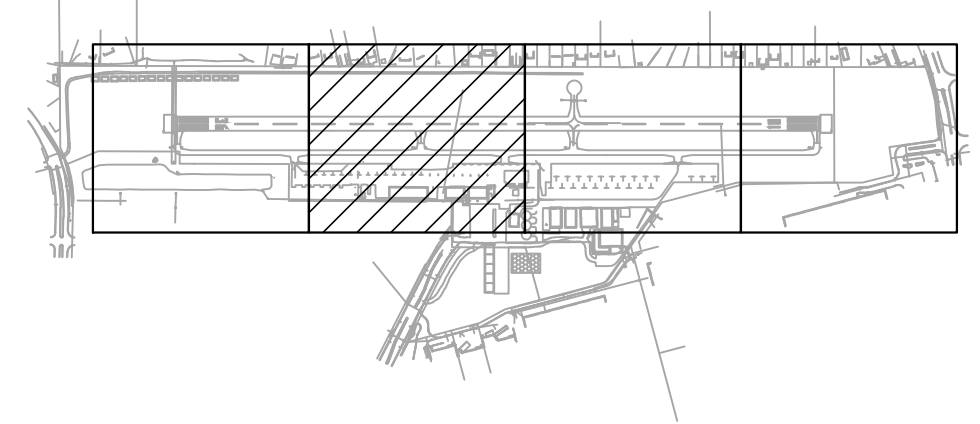
MATCH LINE STA 218+25.00 - SEE SHEET EC-103

LEGEND

	PERMANENT SEEDING (T-901) AND HYDROMULCH (T-905)
	INLET PROTECTION PER DETAIL 1/EC-501
	SILT FENCE PER DETAIL 2/EC-501
	EXISTING STORM SEWER STRUCTURE
	PROPOSED STAGING AREA LIMITS

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- CONSTRUCTION NOTES**
- TYPICAL INLET APPLIES FOR THE ENTIRE DURATION THAT THE STRUCTURE EXISTS IN PLACE



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TITLE: EROSION CONTROL PLAN
PROJECT: CONSTRUCT REPLACEMENT PARALLEL TAXIWAY AND REPLACE AIRPORT ROTATING BEACON VILLAGE OF BOLINGBROOK BOLINGBROOK, WILL COUNTY, ILLINOIS



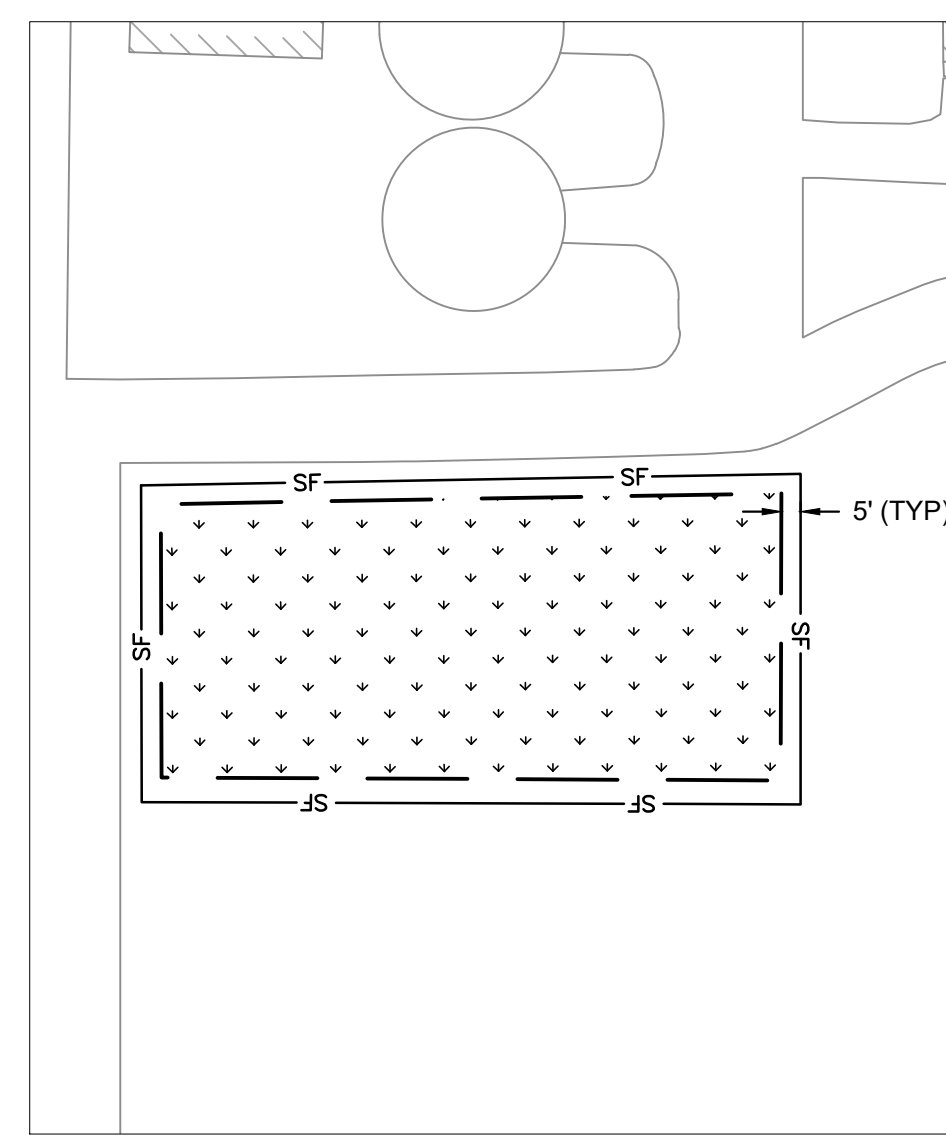
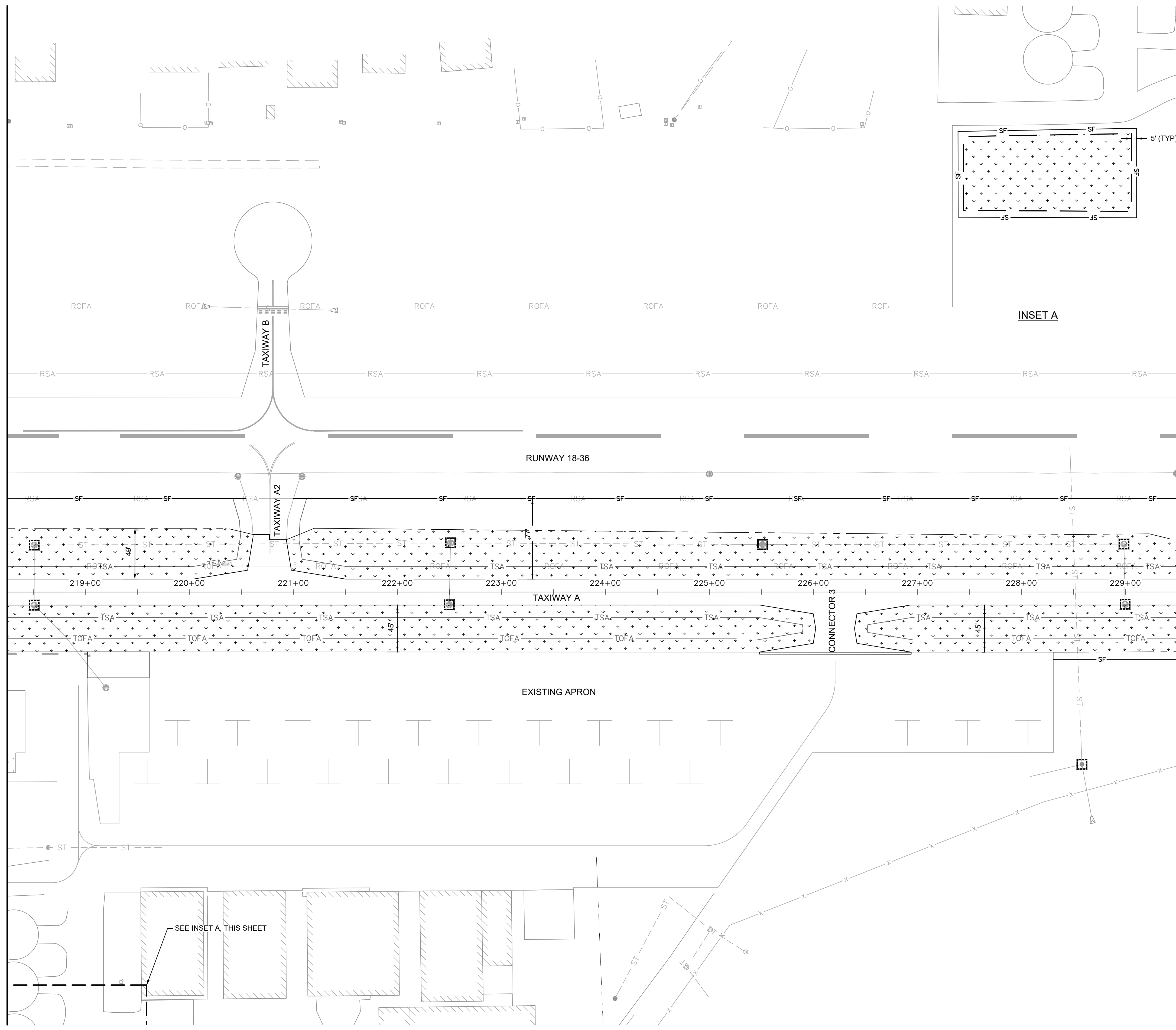
DRAWING NO. **EC-102**

PROJECT NUMBER: 168001005

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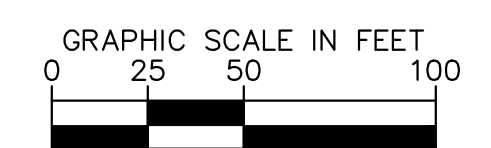
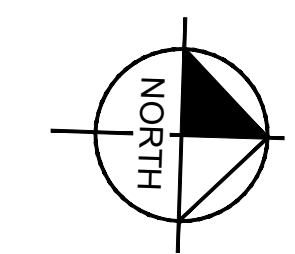
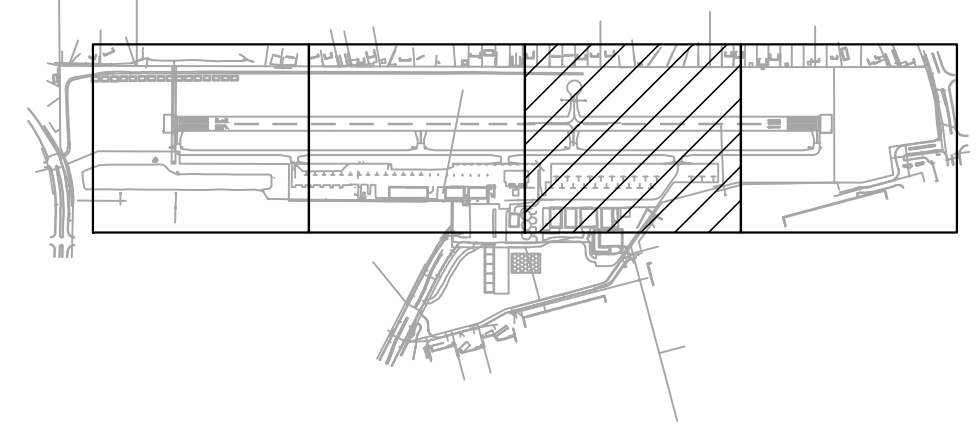
MATCH LINE STA 229+50.00 - SEE SHEET EC-104



- ### LEGEND
- PERMANENT SEEDING (T-901) AND HYDROMULCH (T-905)
 - INLET PROTECTION PER DETAIL 1/EC-501
 - SILT FENCE PER DETAIL 2/EC-501
 - EXISTING STORM SEWER STRUCTURE
 - PROPOSED STAGING AREA LIMITS

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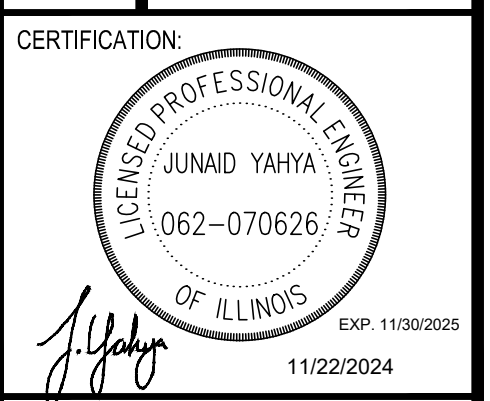


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TITLE: **EROSION CONTROL PLAN**

PROJECT: **CONSTRUCT REPLACEMENT PARALLEL TAXIWAY AND REPLACE AIRPORT ROTATING BEACON VILLAGE OF BOLINGBROOK**
BOLINGBROOK, WILL COUNTY, ILLINOIS

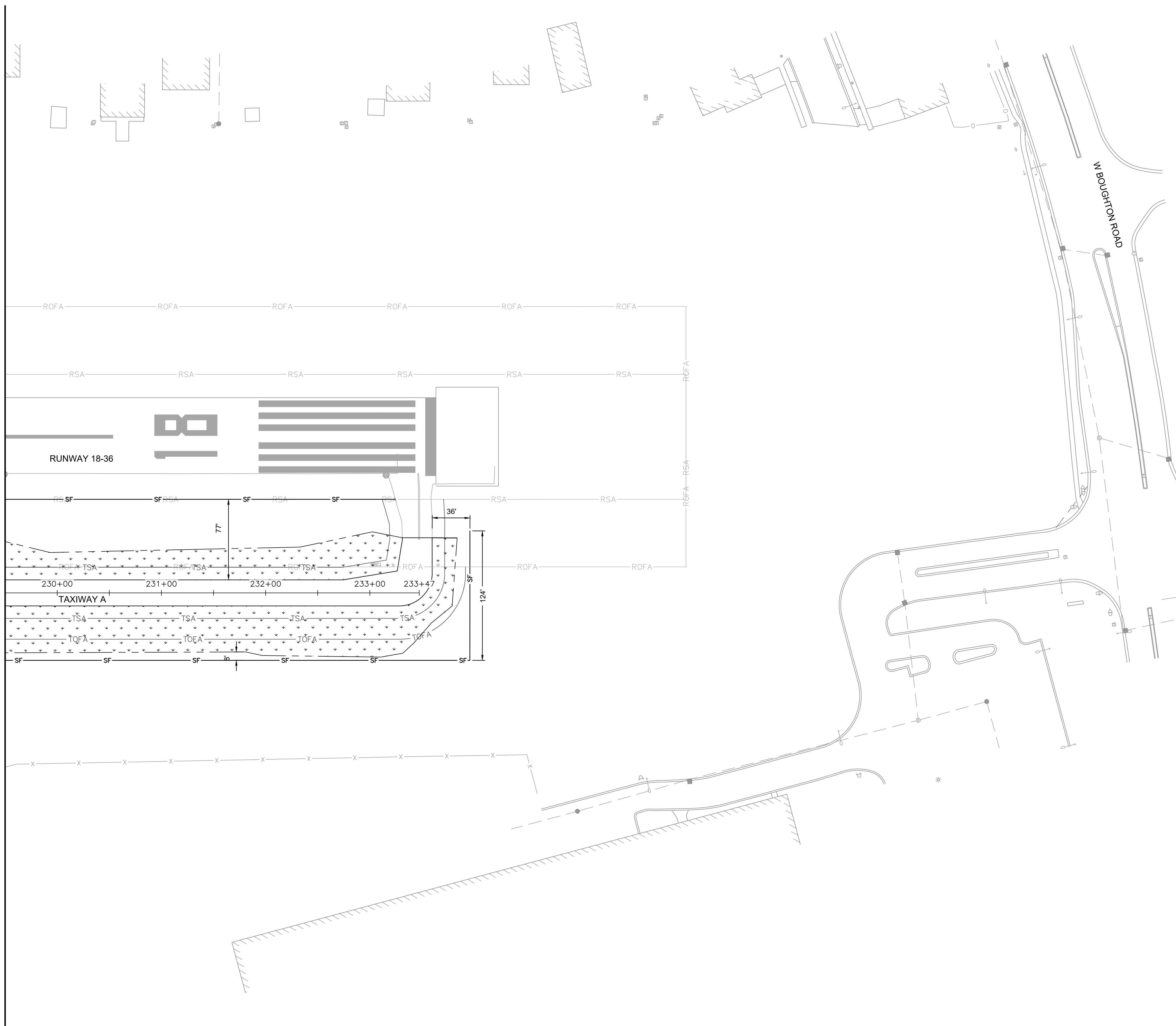


DRAWING NO. **EC-103**

PROJECT NUMBER: 168001005

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LEGEND

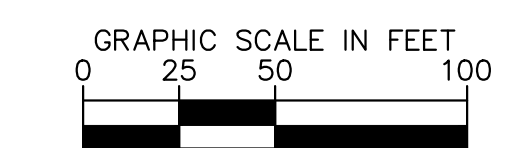
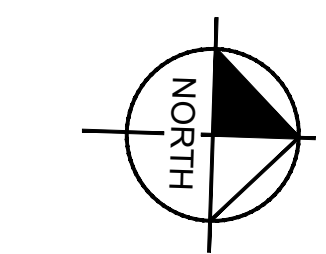
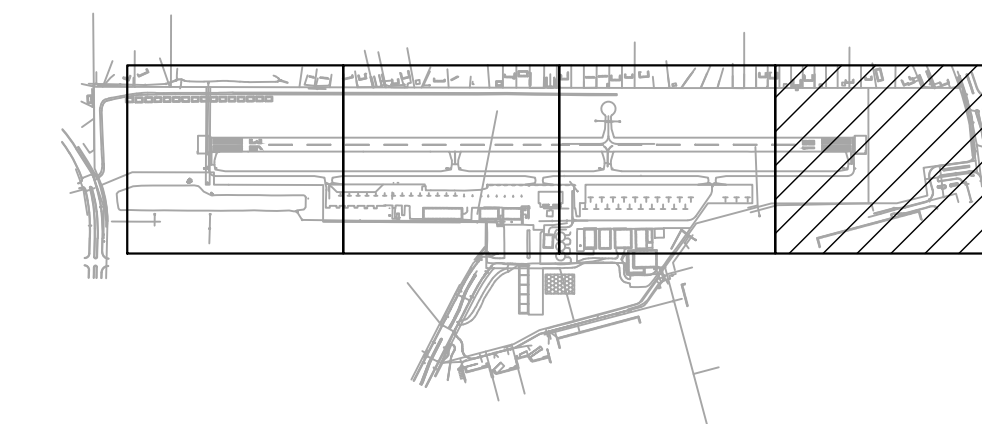
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- INLET PROTECTION PER DETAIL 1/EC-501
- SILT FENCE PER DETAIL 2/EC-501
- EXISTING STORM SEWER STRUCTURE
- PROPOSED STAGING AREA LIMITS

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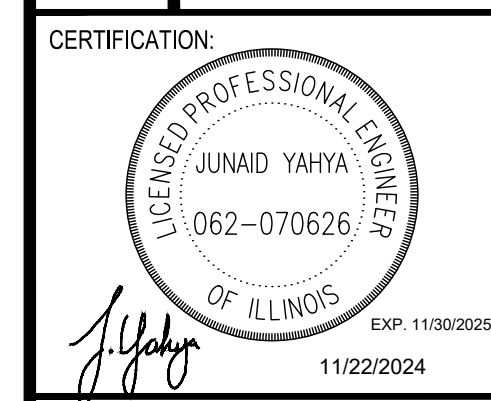
CONSTRUCTION NOTES

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EROSION CONTROL PLAN
 PROJECT:
CONSTRUCT REPLACEMENT PARALLEL TAXIWAY AND REPLACE AIRPORT ROTATING BEACON VILLAGE OF BOLINGBROOK
BOLINGBROOK, WILL COUNTY, ILLINOIS



DRAWING NO. **EC-104**

PROJECT NUMBER:
168001005

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STORMWATER POLLUTION PREVENTION PLAN

THIS PLAN HAS BEEN PREPARED TO ESTABLISH AND IMPLEMENT TEMPORARY EROSION CONTROL SYSTEMS WITHIN THE PROJECT TO PROVIDE A STORM WATER POLLUTION PREVENTION PLAN TO COMPLY WITH NPDES REQUIREMENTS.

SITE DESCRIPTION:

THE SITE CONSISTS OF AN EXISTING AIRCRAFT TAXIWAY AREA MADE OF HMA PAVEMENT AND GRASS INFIELD.

- ESTIMATED AREA OF DISTURBANCE = 9.46 ACRES
- SEQUENCE OF CONSTRUCTION ACTIVITIES MAY BE AS FOLLOWS:
 - INSTALL PERIMETER EROSION BARRIER AND INLET PROTECTION
 - CONSTRUCT CONCRETE WASHOUTS AT CONSTRUCTION ENTRANCES AND STAGING AREAS
 - COMMENCE SITE APPROVAL/EXCAVATION FOR TAXIWAY
 - STOCKPILE AND SCREEN EXCAVATED SOIL FOR POTENTIAL CONTAMINATION WITHIN TAXIWAY CONSTRUCTION AREAS
 - CONSTRUCT ASSOCIATED WORK WITHIN TAXIWAY CONSTRUCTION AREA
 - PLACE FINAL EROSION CONTROL AND SEEDING MEASURES
 - REMOVE CONTAMINATED SOILS FROM SITE
 - RESTORE STAGING AREA TO ITS ORIGINAL STATE
 - REMOVE PERIMETER EROSION BARRIERS, CONCRETE WASHOUT AREAS AND ANY ADDITIONAL TEMPORARY EROSION CONTROL MEASURES WITHIN THE PROJECT SITE

STORM WATER POLLUTION PREVENTION NOTES:

- GENERAL:
- THE CONTRACTOR SHALL IMPLEMENT ALL PROVISIONS OF THE CONTRACT DOCUMENTS TO ASSURE THAT STORM WATER POLLUTION PREVENTION ITEMS ARE CONSTRUCTED AND MAINTAINED IN A TIMELY MANNER. SEDIMENTATION MUST NOT BE TRANSPORTED OFF THE CONSTRUCTION SITE. PERMANENT DRAINAGE FEATURES AND VEGETATIVE MEASURES SHALL BE PROVIDED AS SOON AS POSSIBLE.
 - THE MAINTENANCE AND RELOCATION OF ALL STORM WATER POLLUTION PREVENTION MEASURES ARE INCIDENTAL TO THE ASSOCIATE PAY ITEM.

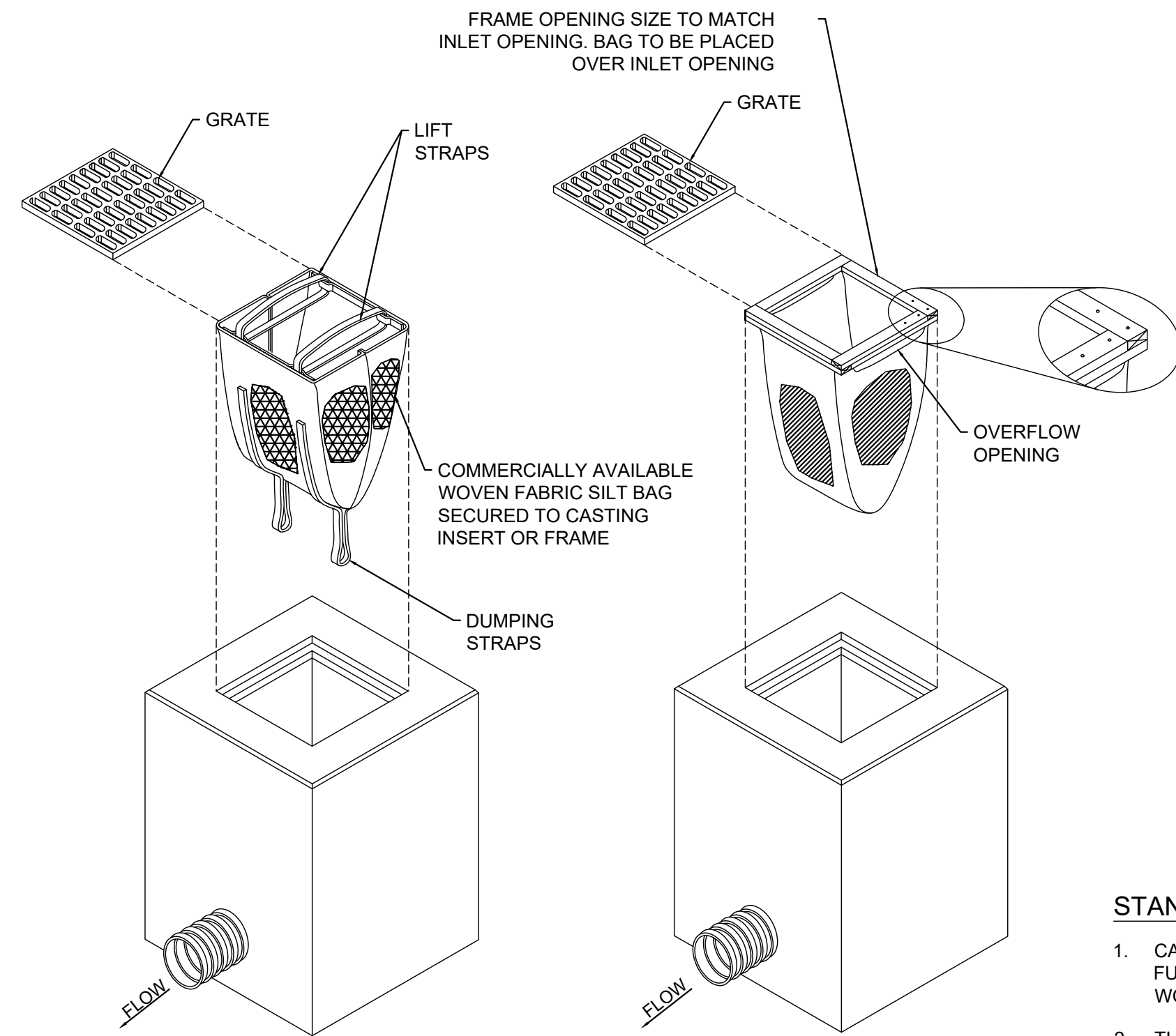
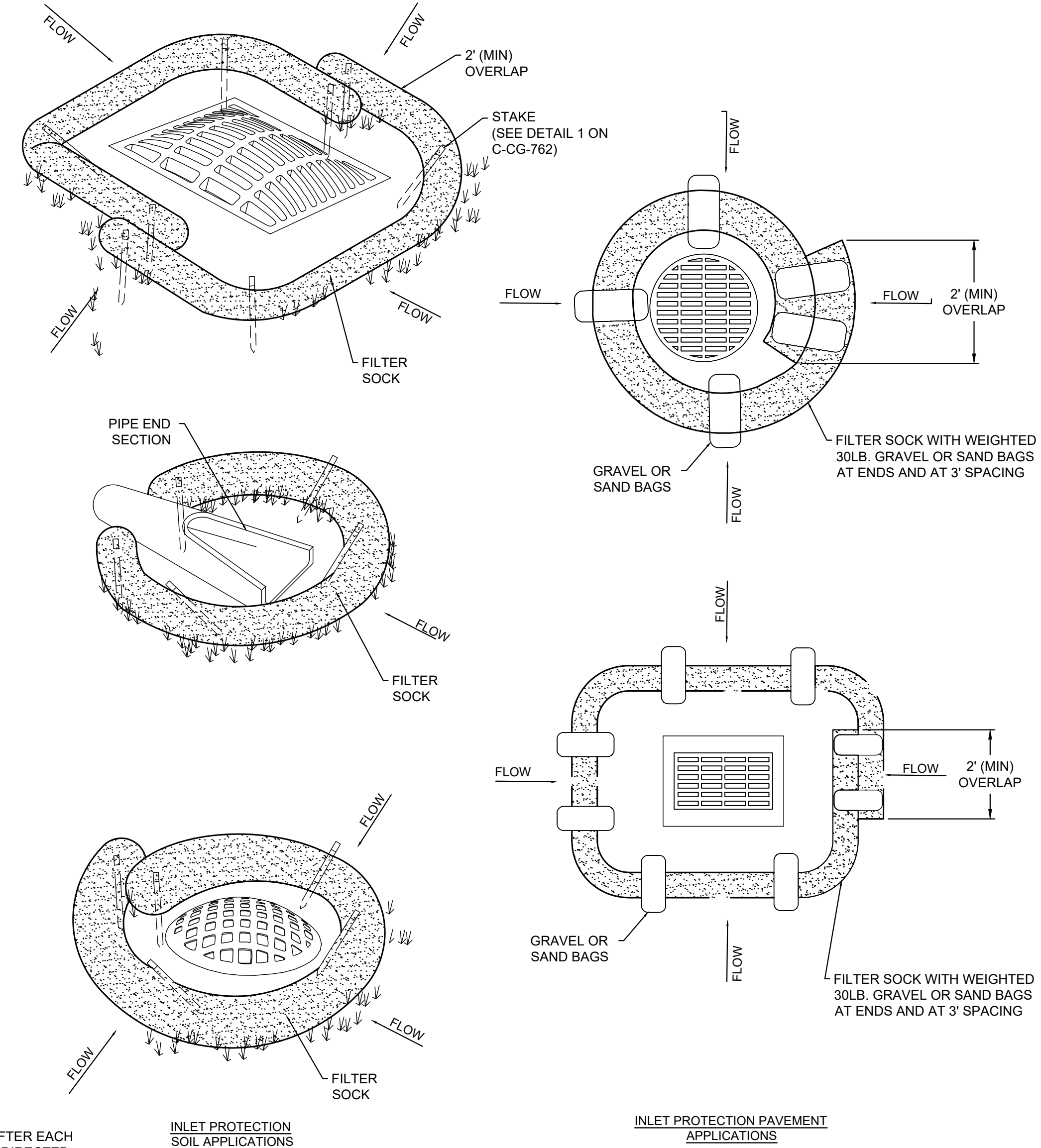
- POLLUTION PREVENTION MEASURES:
- THE CONTRACTOR SHALL BE REQUIRED TO IMPLEMENT AND MAINTAIN STORM WATER POLLUTION PREVENTION PRACTICES AND MEASURES PRIOR TO STRIPPING OF EXISTING VEGETATION WHENEVER POSSIBLE AND AS CONSTRUCTION PERMITS IN OTHER AREAS.

GENERAL NOTES FOR SOIL EROSION AND SEDIMENT CONTROL:

- SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PRIOR TO THE COMMENCEMENT OF HYDROLOGIC DISTURBANCE OF UPLAND AREAS.
- SOIL DISTURBANCE SHALL BE CONDUCTED IN SUCH A MANNER AS TO MINIMIZE EROSION. SOIL STABILIZATION MEASURES SHALL CONSIDER THE TIME OF YEAR, SITE CONDITIONS, AND THE USE OF TEMPORARY OR PERMANENT MEASURES.
- WATER PUMPED OR DISCHARGED FROM THE SITE DURING CONSTRUCTION DEWATERING SHALL BE FILTERED BY AN APPROVED MEANS.
- ALL DISTURBED AREAS SHALL BE STABILIZED WITH TEMPORARY OR PERMANENT EROSION CONTROL MEASURES WITHIN 7 CALENDAR DAYS OF DISTURBANCE.
- EMBANKMENTS WITH SLOPES GREATER THAN OR EQUAL TO 3:1 SHALL BE STABILIZED WITH SOD, MAT OR BLANKET WITH SEEDING.
- EROSION CONTROL BLANKET SHALL BE REQUIRED ON ALL DISTURBED AREAS.
- ALL FUNCTIONING STORM SEWERS WITHIN THE CONSTRUCTION SITE SHOULD BE PROTECTED BY EROSION CONTROL MEASURES.
- THE CONTRACTOR SHALL PROVIDE AREAS TO WASHOUT PAVING EQUIPMENT AND FINISHING TOOLS. ALL WASTE WATER AND EXCESS PAVEMENT MATERIALS SHALL BE CONTAINED BY AN APPROVED CONCRETE WASHOUT FACILITY.
- ALL PERMANENT AND TEMPORARY EROSION CONTROL MEASURES SHOULD BE MAINTAINED TO THE APPROVAL OF THE ENGINEER AND AIRPORT MANAGER.
- SOIL STOCKPILES SHOULD BE LIMITED TO LOCATIONS SHOWN IN THE PLANS AND SHALL NOT ENCROACH ON TAXIWAY OR RUNWAY SAFETY AREAS OR OBJECT FREE ZONES.
- EROSION CONTROL MEASURES SHOWN IN THESE PLANS ARE THE MINIMUM REQUIRED BY THE CONTRACTOR. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED DURING CONSTRUCTION ACTIVITIES AND MUST BE PROVIDED AS DIRECTED AND APPROVED BY THE ENGINEER.
- THE CONTRACTOR SHALL INSPECT ADJACENT STREETS DAILY AND CLEAN ANY SOIL AND DEBRIS WHEN NECESSARY.

MAINTENANCE AND RESTORATION REQUIREMENTS

- SWEEP ALL AFFECTED PAVEMENTS DAILY OR AS DIRECTED BY THE OWNER OR DESIGNER TO REMOVE ACCUMULATED CONSTRUCTION WASTE PRODUCTS.
- INSPECT ALL EROSION CONTROLS WEEKLY AND WITHIN 24 HOURS AFTER A STORM EVENT AND RECORD IN AN INSPECTION LOG BOOK.
- STABILIZE ALL DISTURBED AREA WITHIN 5 DAYS OF FINAL GRADING.
- REMOVE SEDIMENT FROM STORM DRAINAGE SYSTEM AFTER STABILIZATION AND PRIOR TO FINAL ACCEPTANCE.
- REMOVE TEMPORARY EROSION AND SEDIMENT CONTROLS AT THE COMPLETION OF CONSTRUCTION.



1 INLET EROSION PROTECTION
EC-501 NTS

2 SILT FENCE
EC-501 NTS

3 TEMPORARY INLET PROTECTION, FILTER SOCK
EC-501 NTS

STANDARD INLET EROSION PROTECTION NOTES:

- CATCH BASIN SEDIMENT TRAPS SHALL BE INSTALLED AND FUNCTIONAL PRIOR TO THE COMMENCEMENT OF ANY DEMOLITION WORK.
- THE STRUCTURE SHALL BE INSPECTED WEEKLY AND AFTER EACH STORM EVENT AND REPAIRS MADE AS NEEDED OR AS DIRECTED BY THE ENGINEER.
- CONSTRUCTION OPERATIONS SHALL BE CARRIED OUT IN SUCH A MANNER THAT EROSION AND WATER POLLUTION SHALL BE MINIMIZED.
- THE TRAP SHALL BE EMPTIED WHEN THE CAPACITY OF THE TRAP HAS REDUCED TO APPROXIMATELY 50% OR WHEN DIRECTED BY THE ENGINEER.
- THE DRAIN INLET PROTECTION SHALL BE REMOVED AFTER THE REMAINING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.
- STANDARD INLET EROSION PROTECTION (SAND BAG) SHALL BE PAID FOR UNDER PAY ITEM AR156520.
- STANDARD INLET EROSION PROTECTION SHALL MEET THE REQUIREMENTS SET FORTH IN SPECIFICATION C-102.

SILT FENCE NOTES:

- THE SILT FENCE SHALL BE INSPECTED WEEKLY AND AFTER EACH STORM EVENT AND REPAIRS MADE AS NEEDED OR AS DIRECTED BY THE ENGINEER.
- PREASSEMBLED SILT FENCING AS MANUFACTURED FOR THIS PURPOSE SHALL BE ACCEPTABLE IN LIEU OF A FIELD CONSTRUCTED SILT FENCE UPON APPROVAL BY THE ENGINEER.
- FILTER CLOTH SHALL HAVE APPROVED BACKING OR A BUILT IN REINFORCED STRUCTURE, AS RECOMMENDED BY THE MANUFACTURER TO SUPPORT THE FILTER CLOTH.
- SILT FENCE SHALL BE CONSTRUCTED AT LOCATIONS AS SHOWN ON PLANS OR WHERE DIRECTED BY THE ENGINEER.
- THE CONTRACTOR SHALL MAINTAIN THE SILT FENCES DURING THE LIFE OF THE CONTRACT. SILT ACCUMULATIONS SHALL BE CHECKED WEEKLY AND REMOVED BY THE CONTRACTOR AS DEFINED BELOW. THE FENCES SHALL REMAIN IN PLACE UNTIL SUCH TIME THAT A SUFFICIENT STAND OF GRASS HAS BEEN ESTABLISHED TO PREVENT FURTHER SOIL EROSION AS APPROVED BY THE ENGINEER. REMOVE SEDIMENTATION FROM BEHIND SILT FENCES WHEN IT REACHED 1/3 THE HEIGHT OF THE FENCE. ONCE THIS STAND OF GRASS HAS BEEN ACHIEVED TO SATISFACTION OF THE DESIGNER, THE CONTRACTOR SHALL REMOVE AND DISPOSE OF THE SILT FENCE OFF AIRPORT PROPERTY.
- INSTALLATION AND REMOVAL OF SILT FENCE SHALL BE PAID FOR UNDER PAY ITEM AR156510.
- INSTALLATION AND REMOVAL OF SILT FENCE SHALL MEET THE REQUIREMENTS SET FORTH IN C-102.

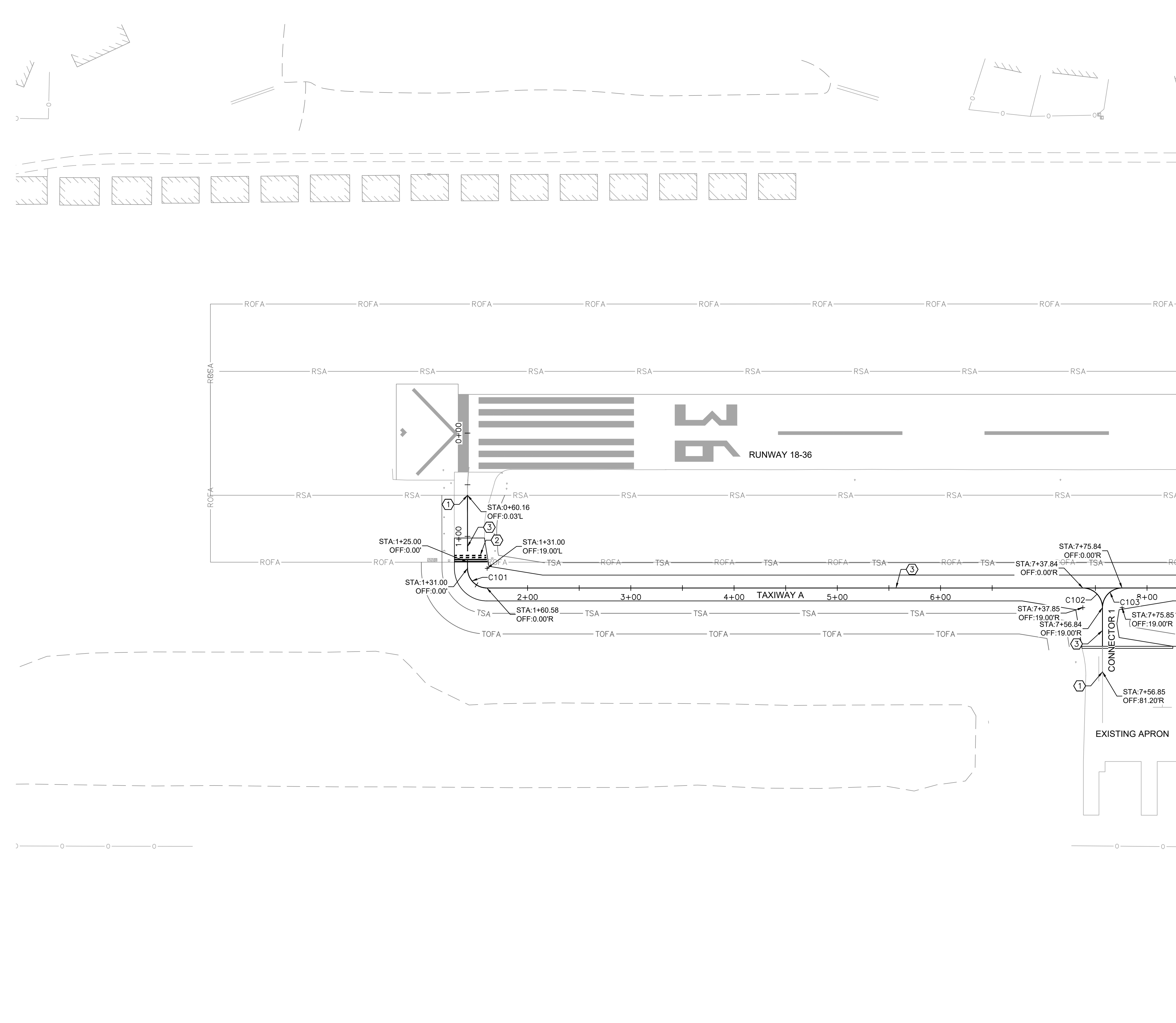
K:\GIS\Aviation\168001005 - 105 Construct Parallel Taxiway\Coord\Plans\168001005-EC Erosion Control.dwg - Burdington, Luke
 11/21/2024 9:43 AM
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EROSION CONTROL DETAILS
 PROJECT:
CONSTRUCT REPLACEMENT PARALLEL TAXIWAY AND REPLACE AIRPORT ROTATING BEACON VILLAGE OF BOLINGBROOK BOLINGBROOK, WILL COUNTY, ILLINOIS



DRAWING NO.
EC-501
PROJECT NUMBER:
168001005

K:\GIS_Aviation\168001005 - 105_Contract_Parallel_Taxiway\168001005 - MK - PavementMarkings.dwg, Burdette, Luke, 11/21/2024, 10:32 AM
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LEGEND

+	CURVE CENTER
CXXX	CURVE NUMBER
---	PROPOSED PAVEMENT MARKING

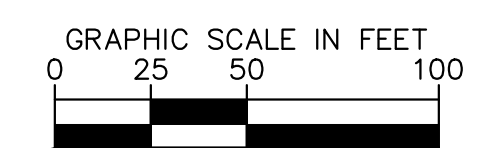
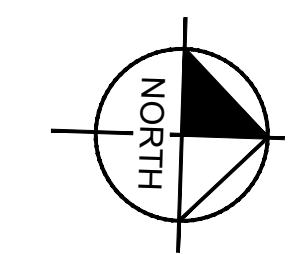
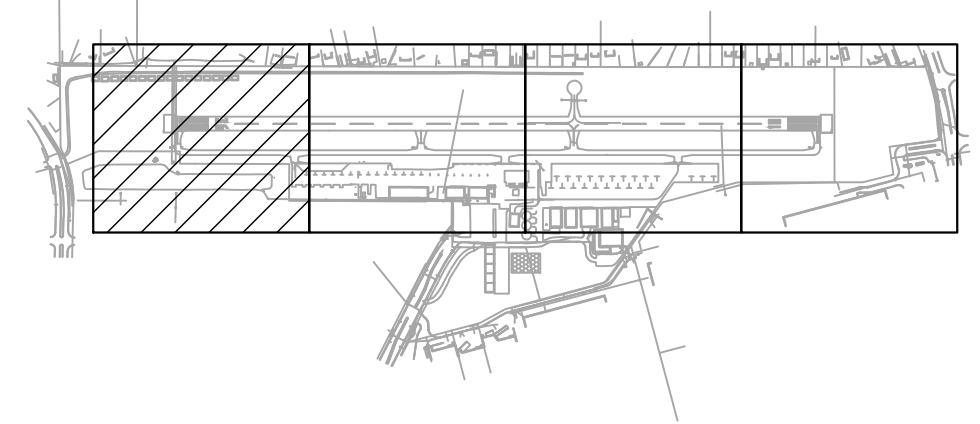
- CONSTRUCTION NOTES**
- ① MATCH TO EXISTING PAVEMENT MARKINGS
 - ② YELLOW RUNWAY HOLDING POSITION MARKING, SEE DETAIL 2/MK-501
 - ③ YELLOW TAXIWAY CENTERLINE MARKING, SEE DETAIL 1/MK-501

- GENERAL NOTES**
1. REFER TO PAVEMENT MARKING DETAILS BEGINNING ON MK-501 FOR MEASUREMENT POINTS OF MARKINGS.

CURVE TABLE

CURVE	RADIUS	LENGTH	DELTA	TANGENT
C101	19.00'	29.85'	90°00'00"	19.00'
C102	19.00'	29.85'	90°00'00"	19.00'
C103	19.00'	29.85'	90°00'00"	19.00'

MATCH LINE STA. 207+00.00 - SEE SHEET MK-102



DATE: 11/22/2024	SCALE: 1" = 50'	
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REV.	DATE	DESCRIPTION
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TITLE: PAVEMENT MARKING PLAN

PROJECT: CONSTRUCT REPLACEMENT PARALLEL TAXIWAY AND REPLACE AIRPORT ROTATING BEACON VILLAGE OF BOLINGBROOK BOLINGBROOK, WILL COUNTY, ILLINOIS



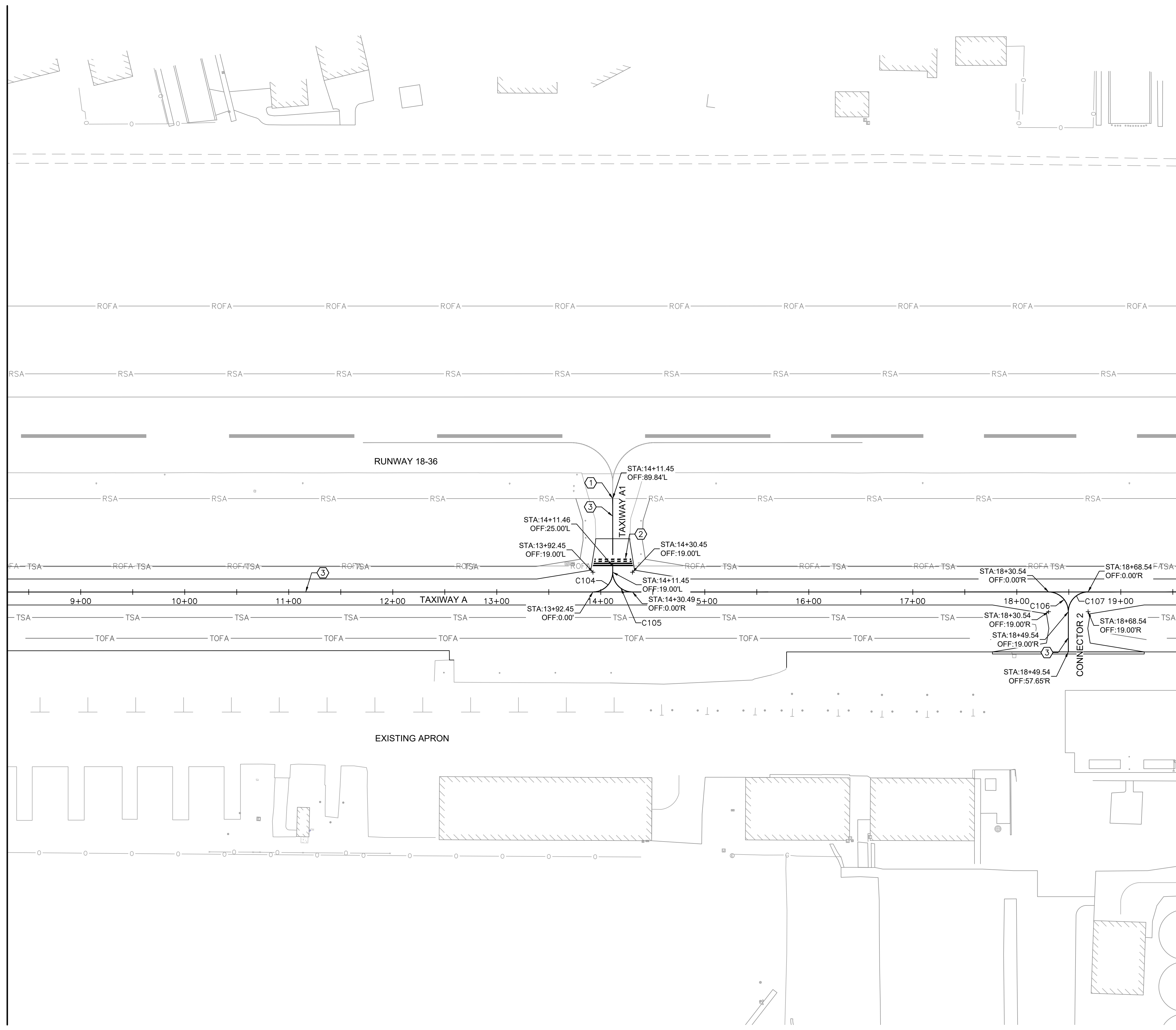
DRAWING NO. **MK-101**

PROJECT NUMBER:
168001005

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MATCH LINE STA. 207+00.00 - SEE SHEET MK-101

MATCH LINE STA. 218+25.00 - SEE SHEET MK-103



LEGEND

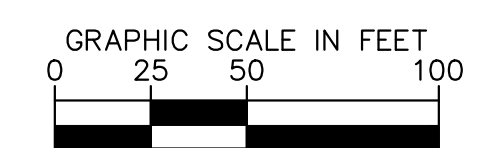
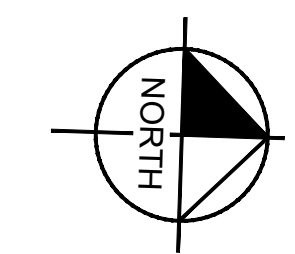
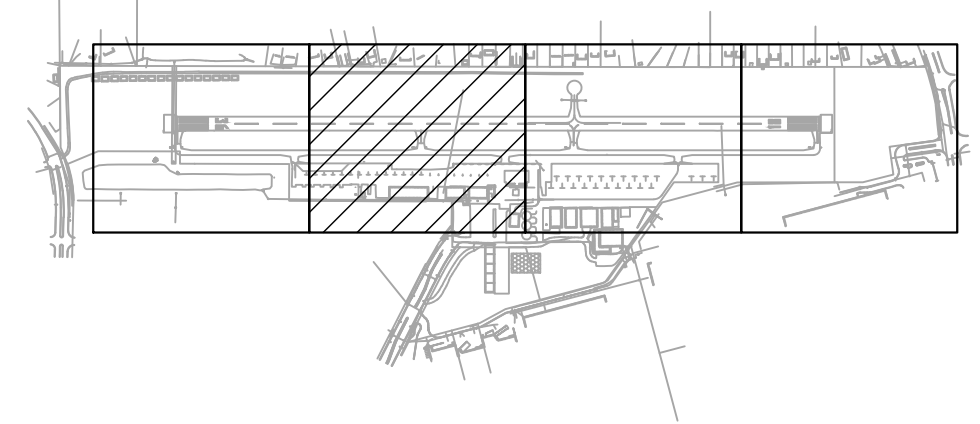
+	CURVE CENTER
CXXX	CURVE NUMBER
---	PROPOSED PAVEMENT MARKING

- CONSTRUCTION NOTES**
- ① MATCH TO EXISTING PAVEMENT MARKINGS
 - ② YELLOW RUNWAY HOLDING POSITION MARKING, SEE DETAIL 2/MK-501
 - ③ YELLOW TAXIWAY CENTERLINE MARKING, SEE DETAIL 1/MK-501

- GENERAL NOTES**
1. REFER TO PAVEMENT MARKING DETAILS BEGINNING ON MK-501 FOR MEASUREMENT POINTS OF MARKINGS.

CURVE TABLE

CURVE	RADIUS	LENGTH	DELTA	TANGENT
C104	19.00'	29.85'	90°00'00"	19.00'
C105	19.00'	29.85'	90°00'00"	19.00'
C106	19.00'	29.85'	90°00'00"	19.00'
C107	19.00'	29.85'	90°00'00"	19.00'



4201 WINFIELD ROAD
SUITE 600
WARRENVILLE, IL 60555
TEL (630) 487-5550

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REV.	DATE	DESCRIPTION	
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TITLE: PAVEMENT MARKING PLAN

PROJECT: CONSTRUCT REPLACEMENT PARALLEL TAXIWAY AND REPLACE AIRPORT ROTATING BEACON VILLAGE OF BOLINGBROOK, WILL COUNTY, ILLINOIS



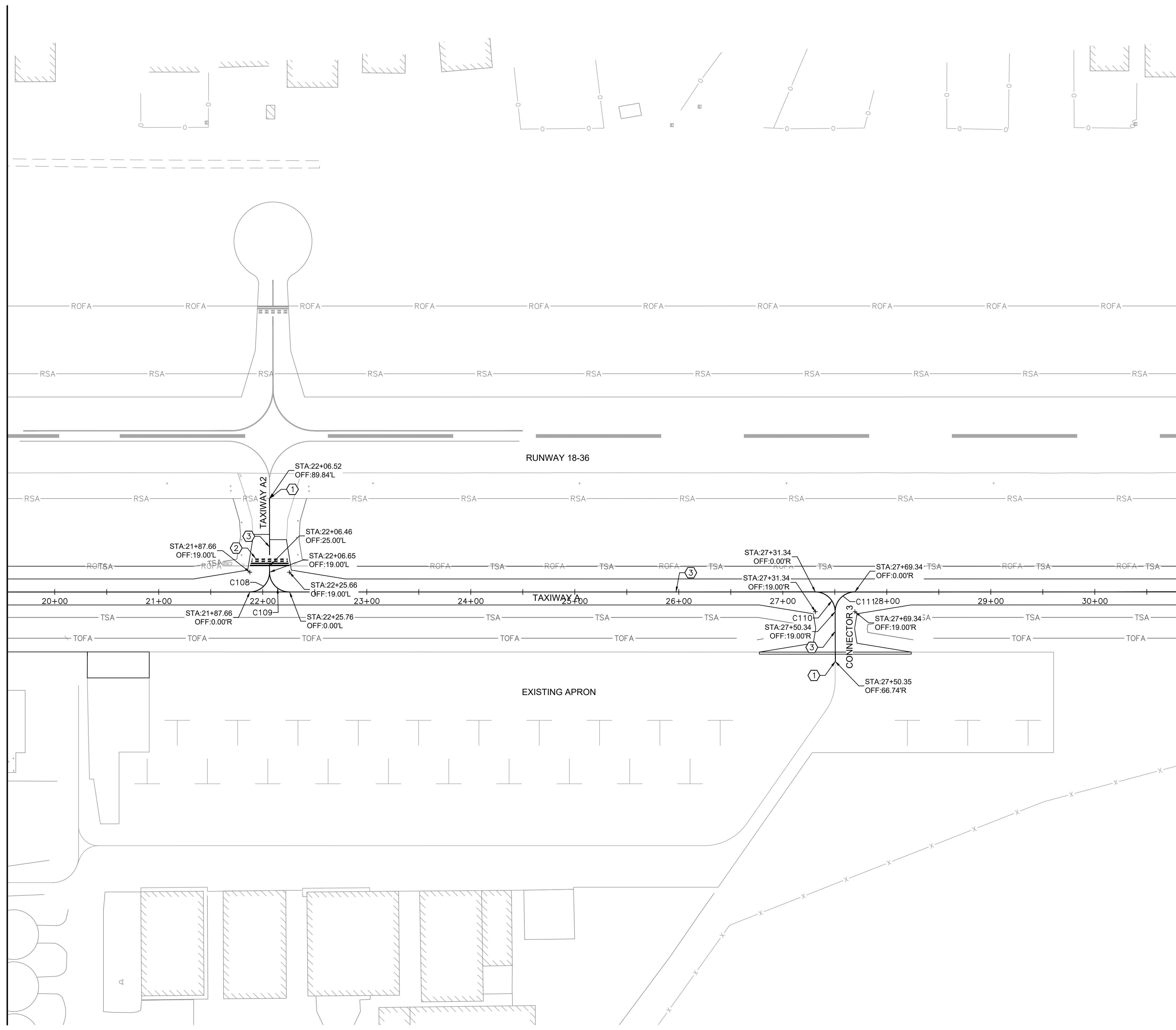
DRAWING NO. **MK-102**

PROJECT NUMBER: 168001005

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MATCH LINE STA. 218+25.00 - SEE SHEET MK-102

MATCH LINE STA. 229+50.00 - SEE SHEET MK-104



LEGEND

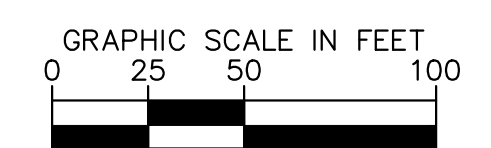
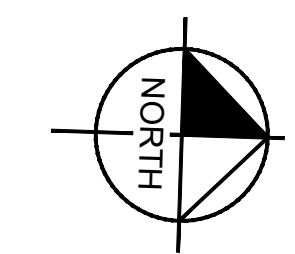
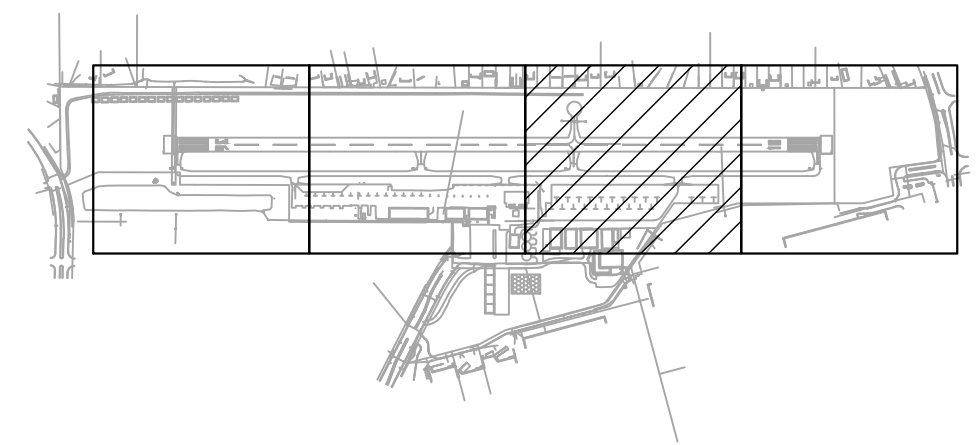
+	CURVE CENTER
CXXX	CURVE NUMBER
---	PROPOSED PAVEMENT MARKING

- CONSTRUCTION NOTES**
- ① MATCH TO EXISTING PAVEMENT MARKINGS
 - ② YELLOW RUNWAY HOLDING POSITION MARKING, SEE DETAIL 2/MK-501
 - ③ YELLOW TAXIWAY CENTERLINE MARKING, SEE DETAIL 1/MK-501

- GENERAL NOTES**
1. REFER TO PAVEMENT MARKING DETAILS BEGINNING ON MK-501 FOR MEASUREMENT POINTS OF MARKINGS.

CURVE TABLE

CURVE	RADIUS	LENGTH	DELTA	TANGENT
C108	19.00'	29.85'	90°00'00"	19.00'
C109	19.00'	29.85'	90°00'00"	19.00'
C110	19.00'	29.85'	90°00'00"	19.00'
C111	19.00'	29.85'	90°00'00"	19.00'

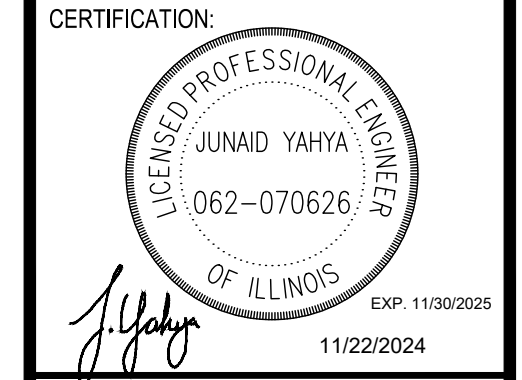


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TEL (630) 487-5550

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REV.	DATE	DESCRIPTION	
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TITLE: PAVEMENT MARKING PLAN

PROJECT: CONSTRUCT REPLACEMENT PARALLEL TAXIWAY AND REPLACE AIRPORT ROTATING BEACON VILLAGE OF BOLINGBROOK BOLINGBROOK, WILL COUNTY, ILLINOIS

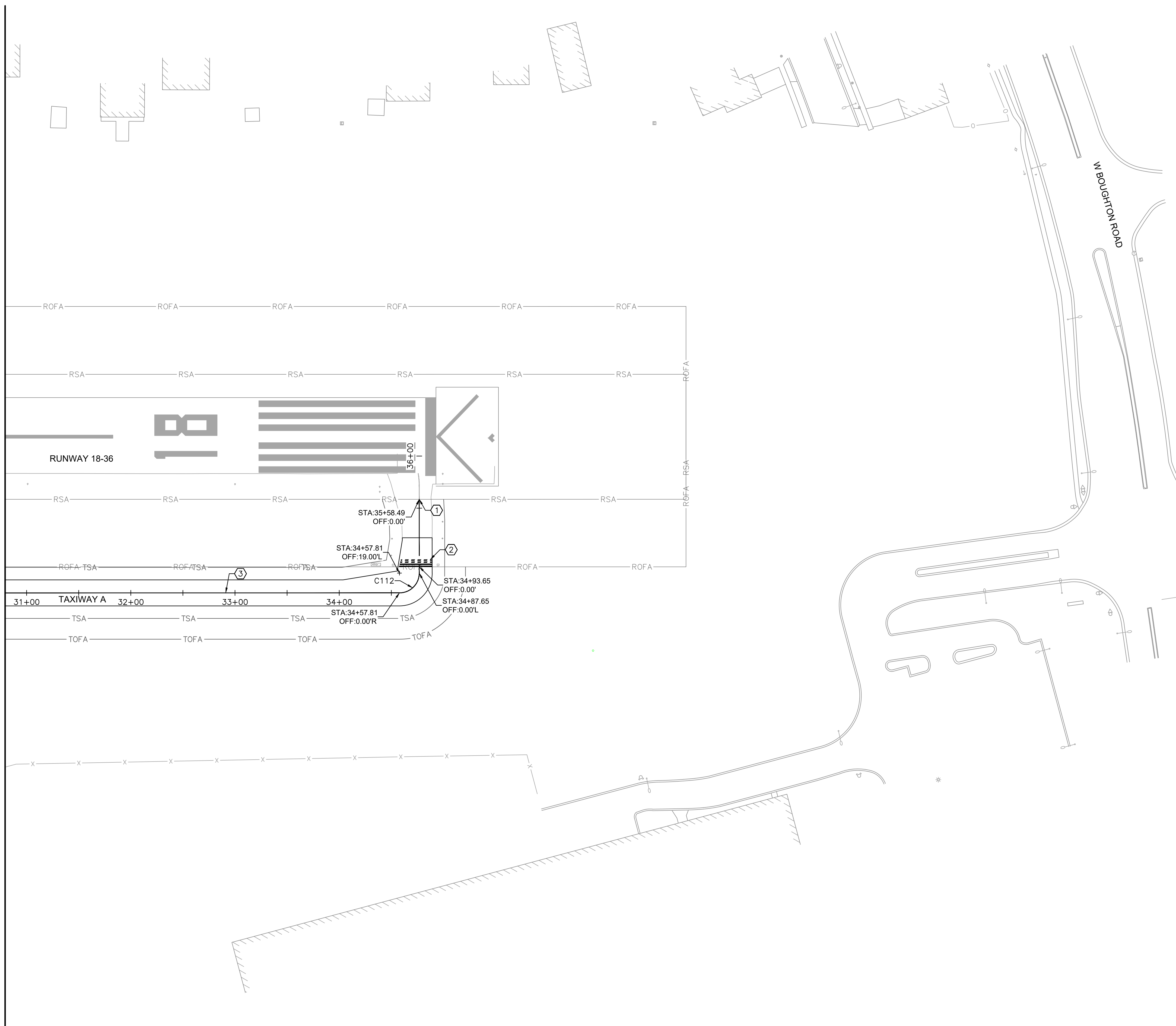


DRAWING NO. **MK-103**

PROJECT NUMBER: 168001005

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MATCH LINE STA. 229+50.00 - SEE SHEET MK-103



LEGEND

- + CURVE CENTER
- CXXX CURVE NUMBER
- PROPOSED PAVEMENT MARKING

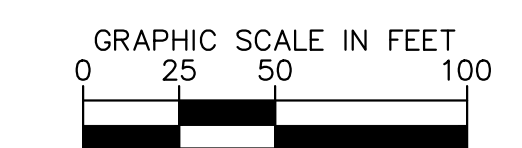
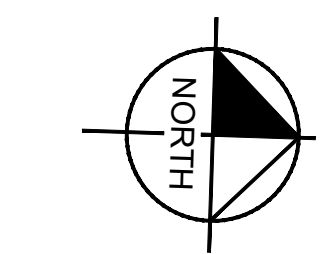
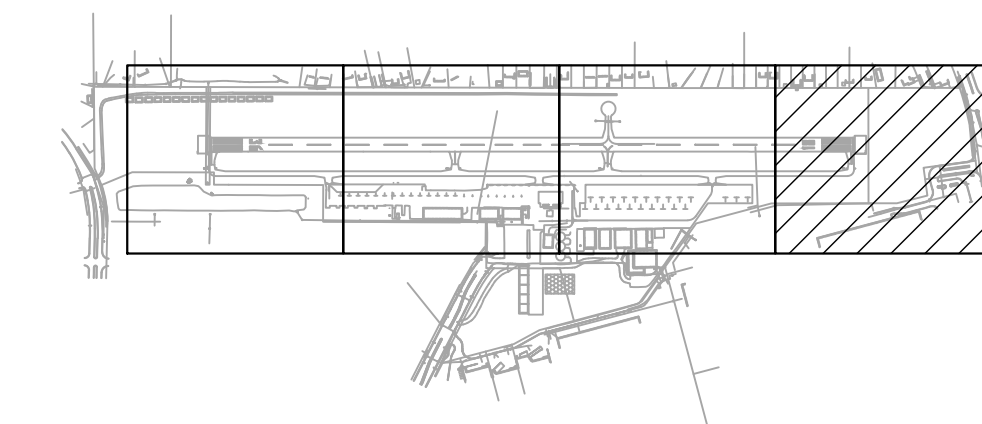
CONSTRUCTION NOTES

- ① MATCH TO EXISTING PAVEMENT MARKINGS
- ② YELLOW RUNWAY HOLDING POSITION MARKING, SEE DETAIL 2/MK-501
- ③ YELLOW TAXIWAY CENTERLINE MARKING, SEE DETAIL 1/MK-501

GENERAL NOTES

1. REFER TO PAVEMENT MARKING DETAILS BEGINNING ON MK-501 FOR MEASUREMENT POINTS OF MARKINGS.

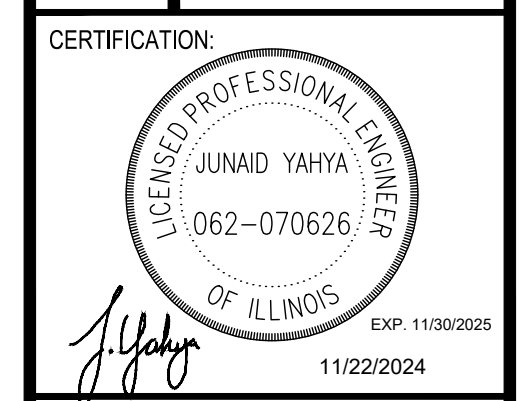
CURVE TABLE				
CURVE	RADIUS	LENGTH	DELTA	TANGENT
C112	19.00'	29.85'	90°00'00"	19.00'



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TEL (630) 487-5550

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REV.	DATE	DESCRIPTION
0	11/22/2024	ISSUED FOR BID

PAVEMENT MARKING PLAN
 PROJECT:
 CONSTRUCT REPLACEMENT PARALLEL TAXIWAY AND
 REPLACE AIRPORT ROTATING BEACON
 VILLAGE OF BOLINGBROOK
 BOLINGBROOK, WILL COUNTY, ILLINOIS



DRAWING NO.
MK-104

PROJECT NUMBER:
168001005

DATE:
11/22/2024

SCALE:
NTS

DRAWN BY:
LMB

CHECKED BY:
JY

REV. DATE DESCRIPTION

0 11/22/2024 ISSUED FOR BID

TITLE:
PAVEMENT MARKING DETAILS
PROJECT:
**CONSTRUCT REPLACEMENT PARALLEL TAXIWAY AND
REPLACE AIRPORT ROTATING BEACON
VILLAGE OF BOLINGBROOK
BOLINGBROOK, WILL COUNTY, ILLINOIS**

CERTIFICATION:



11/22/2024

DRAWING NO.

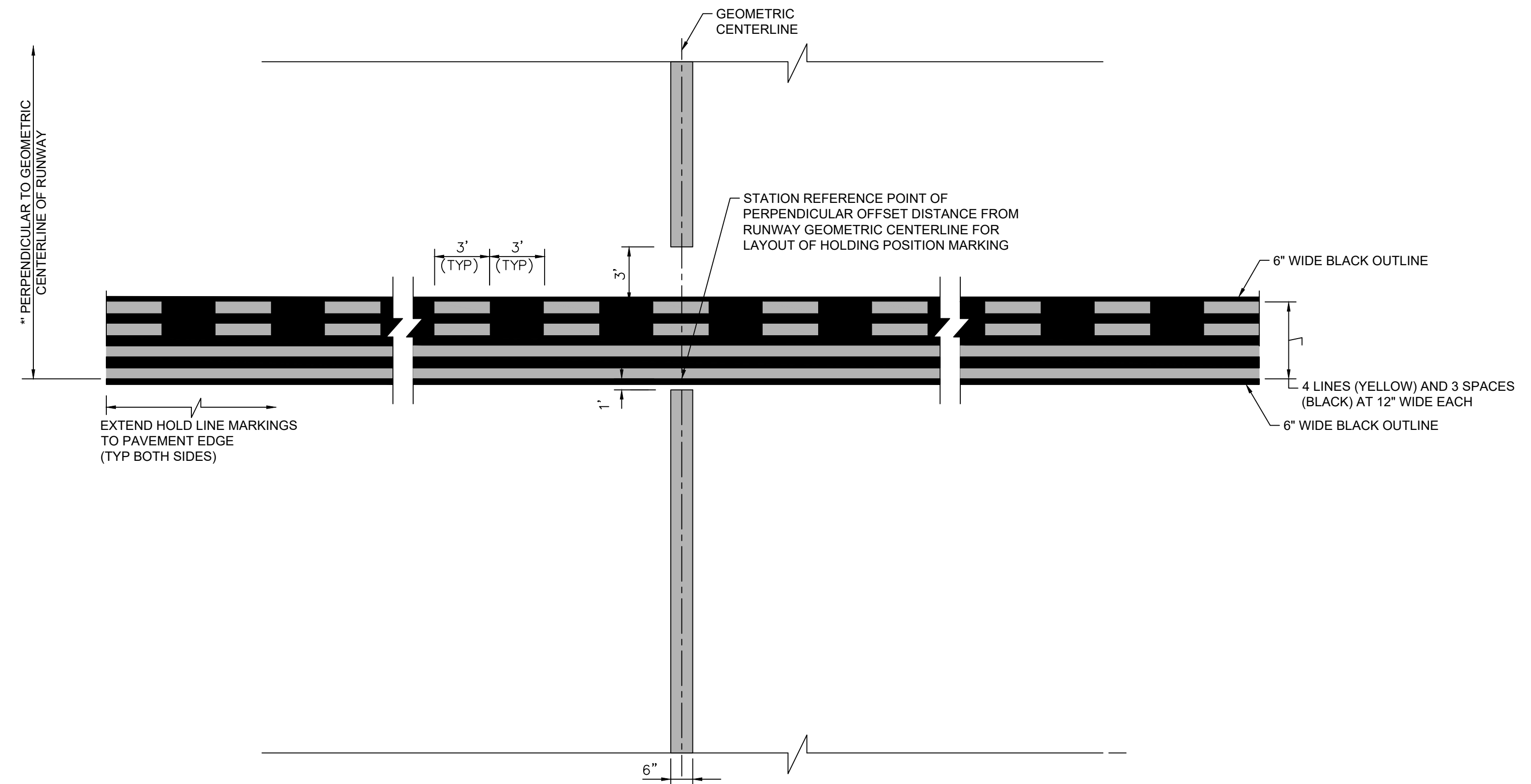
MK-501

PROJECT NUMBER:

168001005



1 TAXIWAY CENTERLINE PAVEMENT MARKING
MK-501 NTS



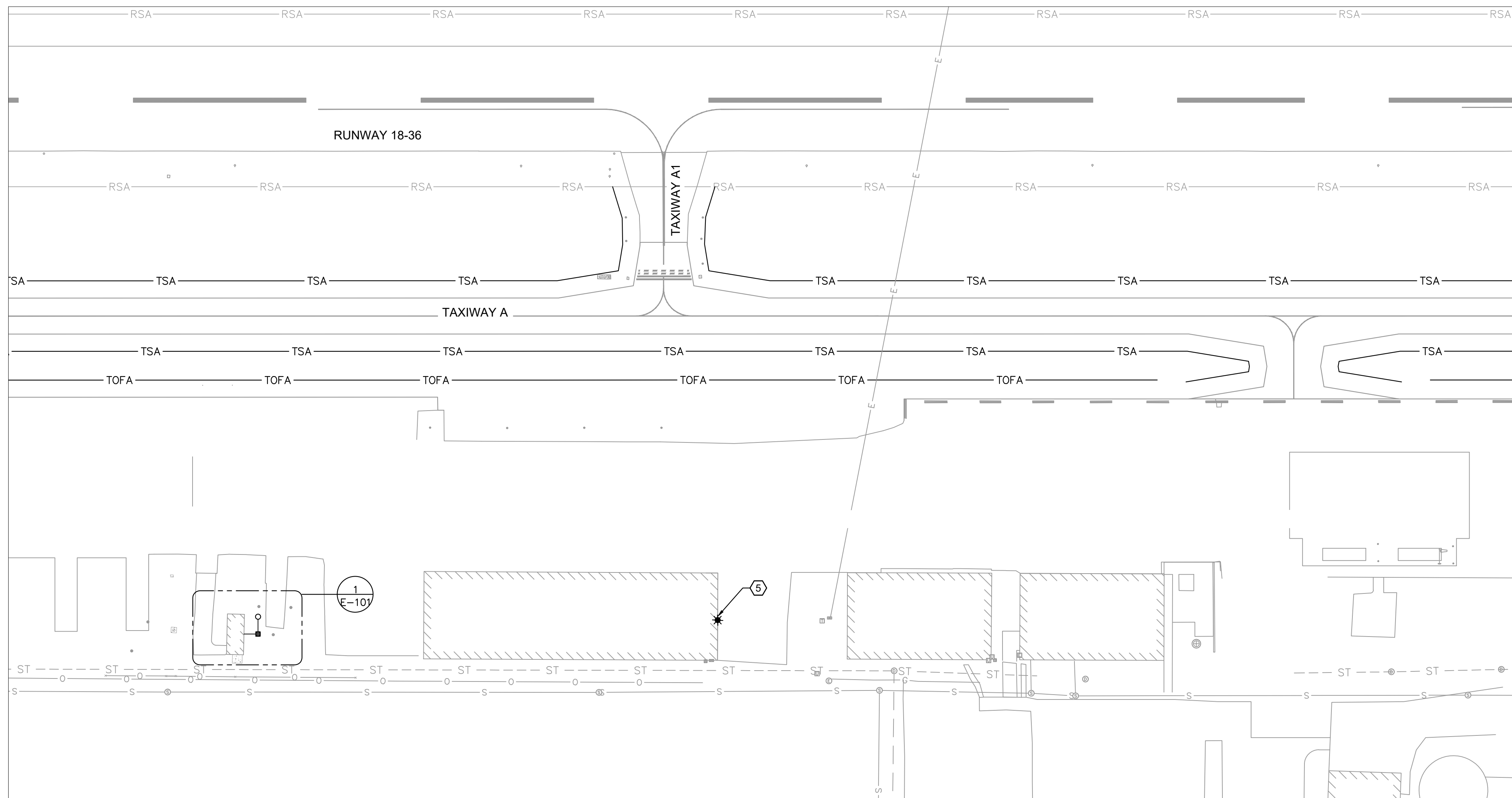
2 RUNWAY HOLDING POSITION MARKING
MK-501 NTS

NOTES:

- IF THE HOLD POSITION MARKING AND TAXIWAY CENTERLINE ARE NOT PERPENDICULAR TO EACH OTHER, THEN THE DISTANCE SHOULD BE MEASURED FROM THE CENTER OF TAXIWAY CENTERLINE TO NEAREST CORNER OF THE SURFACE PAINTED HOLDING POSITION SIGN (SEE ADVISORY CIRCULAR 150/5340-1, LATEST EDITION).
- * PER FAA AC 150/5300-13B, TABLE 4-2, RUNWAY HOLDING POSITION DIMENSIONS.

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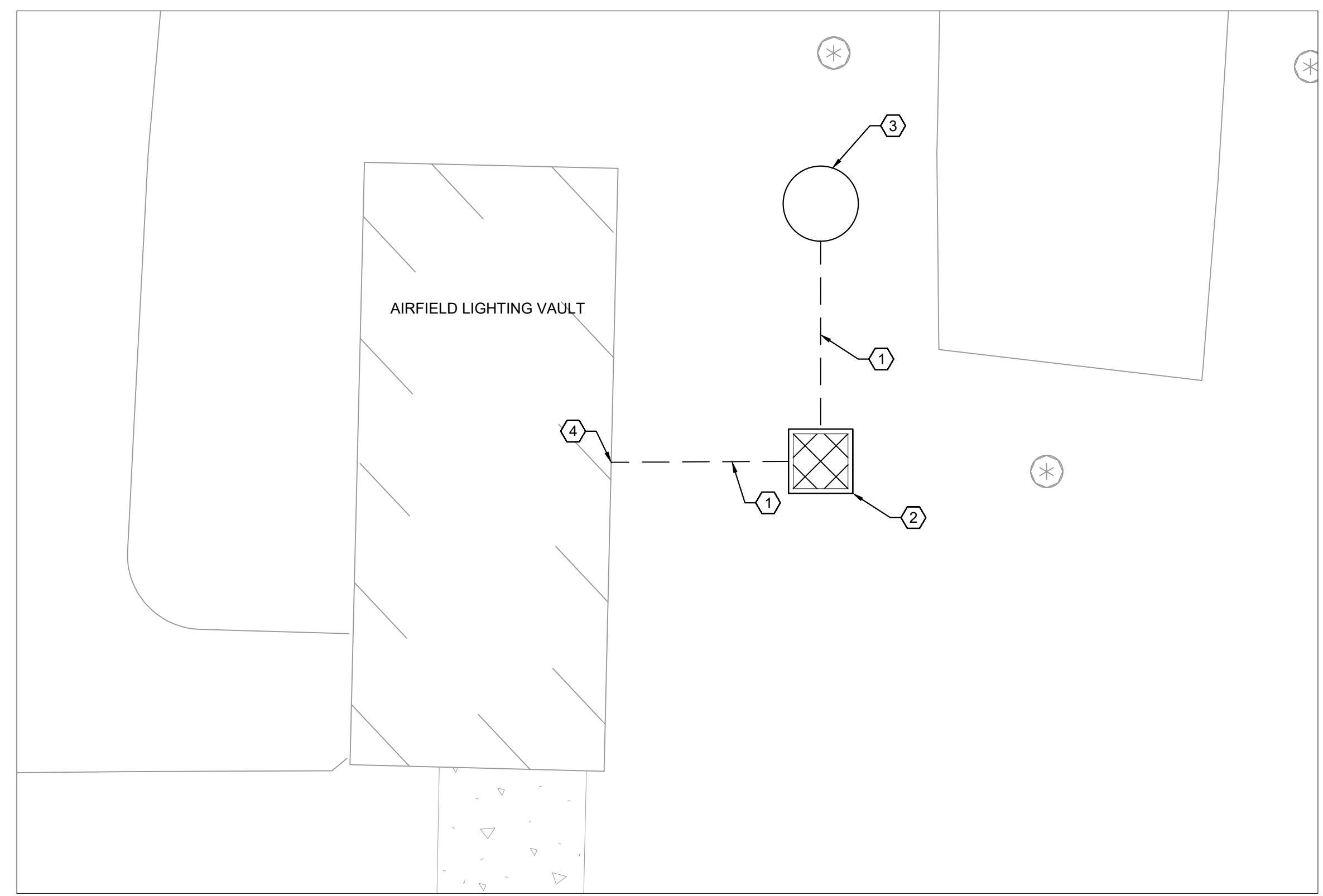
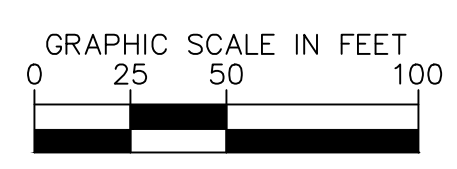


LEGEND

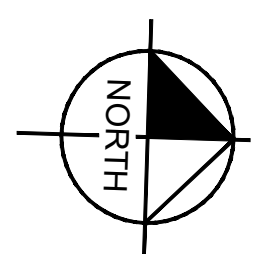
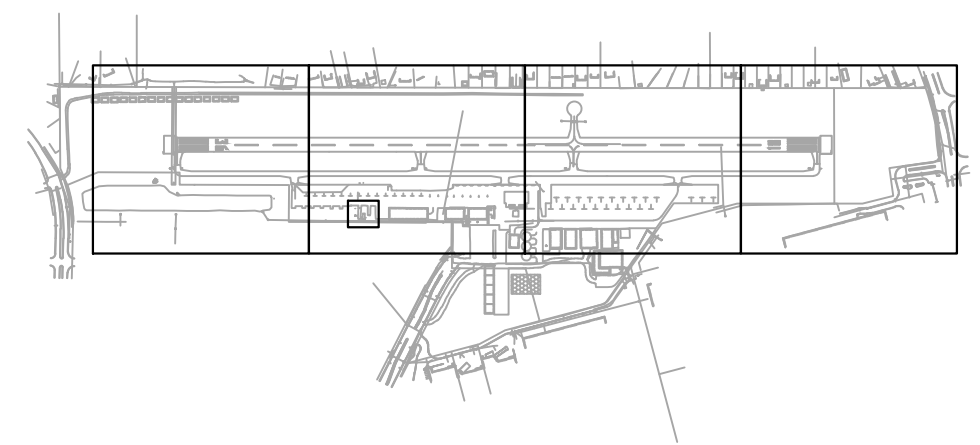
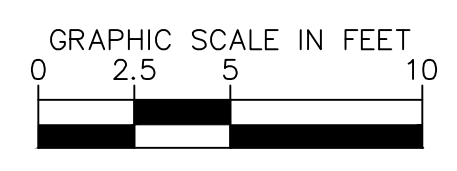
- ☒ PROPOSED HANDHOLE
- PROPOSED BEACON
- PROPOSED 1-2" SCH. PVC CONDUIT

CONSTRUCTION NOTES

- ① INSTALL NEW CONCRETE ENCASED 1-2" SCH.40 PVC CONDUIT WITH (2) #8 AWG CU AND (1) #8 AWG CU GND FROM EXISTING PANEL TO NEW ROTATING TIP DOWN BEACON. RESTORE PAVEMENT TO MATCH EXISTING SURFACE CONDITIONS.
- ② INSTALL NEW H-20 TRAFFIC LOAD RATED CONCRETE HANDHOLE.
- ③ INSTALL NEW L-801A ROTATING BEACON AND NEW L-810 OBSTRUCTION LIGHTS ON NEW TIPDOWN POLE WITH NEW POLE FOUNDATION. CONTRACTOR TO AIM TIP DOWN AND DIRECTION AWAY FROM AIRFIELD LIGHTING VAULT.
- ④ TRANSITION FROM PVC CONDUIT TO RMC CONDUIT RISER AND PENETRATE BUILDING WALL USING 2" LB ON EXTERIOR WALL. ROUTE RMC CONDUIT THROUGH BUILDING INTERIOR TO PANEL 'AC-1'. INSTALL JUNCTION STRUCTURES ON INTERIOR WALLS AS REQUIRED. EXISTING. FIRE SEAL ALL PENETRATIONS THROUGH FIRE RATED WALLS AND EXTERNALLY SEAL TO PREVENT MOISTURE FROM ENTERING.
- ⑤ EXISTING BEACON TO BE REMOVED. REMOVE EXISTING CIRCUIT CABLING. ABANDON ALL UNDERGROUND CONDUIT IN PLACE.



1 BEACON LAYOUT DETAILED VIEW
 EL-101 SCALE: 1" = 5'

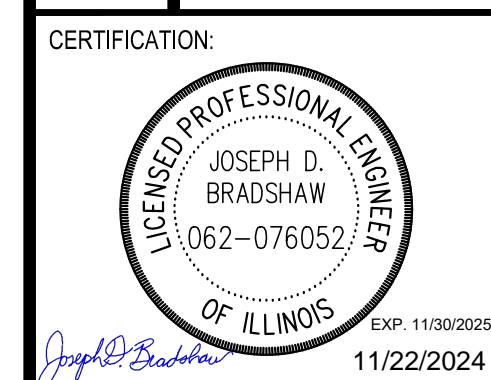


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DATE: 11/22/2024	SCALE: 1" = 50'	
DRAWN BY: DKP	CHECKED BY: JDB	
REV.	DATE	DESCRIPTION
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TITLE: ELECTRICAL LAYOUT PLAN
PROJECT: CONSTRUCT REPLACEMENT PARALLEL TAXIWAY AND REPLACE AIRPORT ROTATING BEACON VILLAGE OF BOLINGBROOK BOLINGBROOK, WILL COUNTY, ILLINOIS

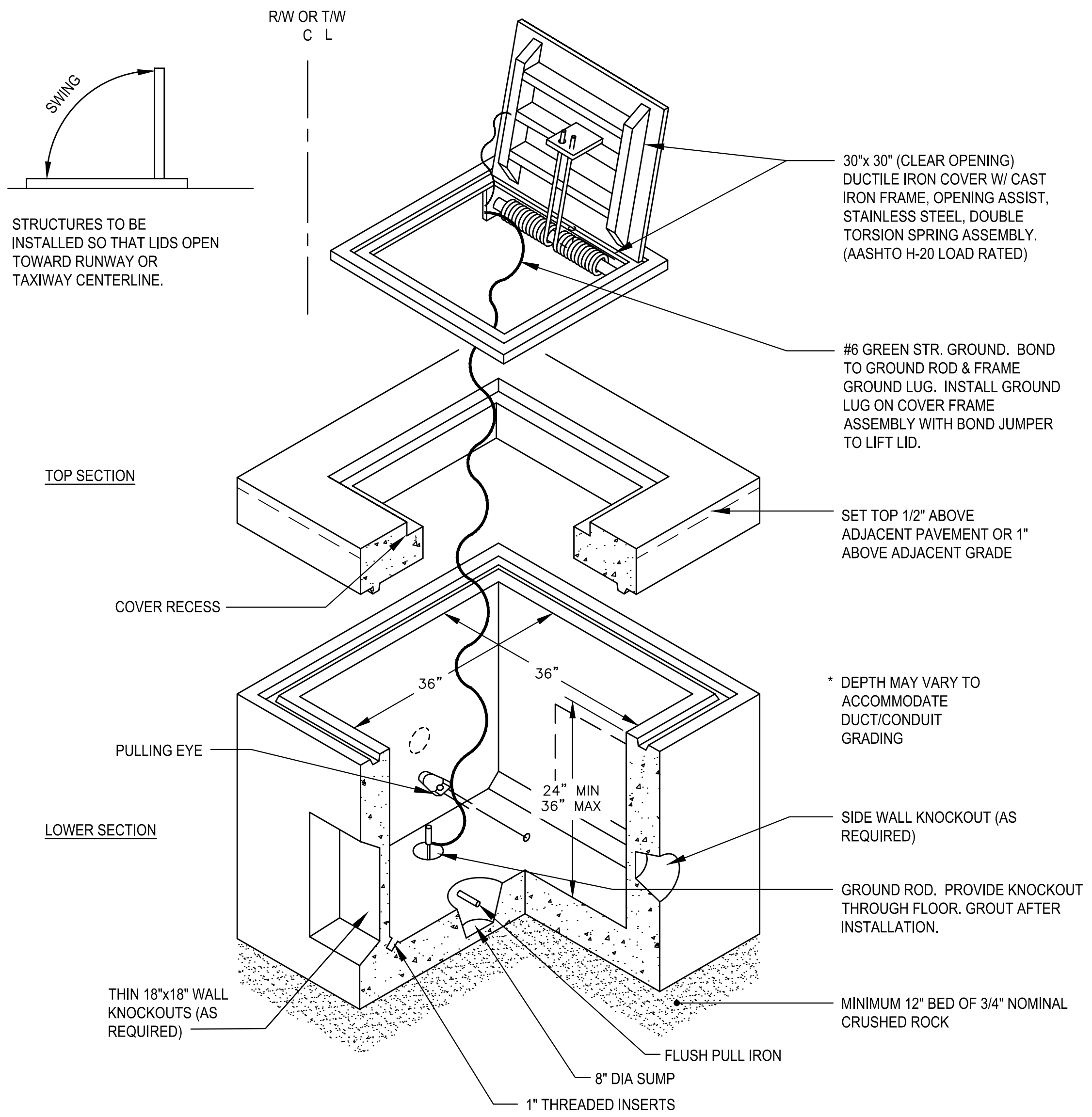


DRAWING NO. **EL-101**
 PROJECT NUMBER: 168001005

C:\hsfpo\my_chs\CHS Aviation\168001005 - 105 Construct Parallel Taxiway\Coack\Plans\168001005-EL Electrical-Details.dwg, Panel: Distro, 11/19/2024, 11:03 AM
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PANEL NAME: AC-1													
LOCATION:			VOLTS: 120/240V			AIC RATING: 42K							
SUPPLY FROM: SES			PHASES: 1			MAINS TYPE: MCB							
MOUNTING: SURFACE			WIRES: 3			MAINS RATING: 200 A							
ENCLOSURE: NEMA 3R						MCB RATING: 200 A							
CKT	CIRCUIT DESCRIPTION	LOAD TYPE	TRIP	POLES	A (VA)		B (VA)		POLES	TRIP	LOAD TYPE	CIRCUIT DESCRIPTION	CKT
1	(E) INTERIOR LIGHTS	L		1	EX	EX			2	60	E	(E) LIGHTNING ARRESTOR	2
3	(E) EXTERIOR LIGHTS	L		1			EX	EX					4
5	(E) INTERIOR RECEPT.	R		1	EX	EX			2	25	E	(E) HEATER EH1	6
7	(E) EXHAUST FAN	E		1			EX	EX					8
9	(E) CONTROL POWER	E		1	EX	EX			2	25	E	(E) HEATER EH2	10
11	(E) FACP	O		1			EX	EX					12
13	(E) SPARE			1	EX	EX			2	80		(E) SPARE	14
15	(E) GFI NORTH EXTERIOR	R		1			EX	EX					16
17	(E) SPARE			1	EX	395			1	20	L	(N) BEACON	18
19	(E) SPARE			1									20
21	(E) SPARE			2									22
23	(E) SPARE			2									24
25	(E) SPARE			2									26
27	(E) SPARE			2									28
29	(E) SPARE			2									30
31	(E) SPARE			2									32
33	(E) SPARE			2									34
35	(E) SPARE			2									36
37	(E) REGULATOR RUNWAY	E		2	EX	EX							38
39							EX	EX					40
41													42
TOTAL LOAD:					395 VA		0 VA						
TOTAL AMPS:					3.3 A		0 A						
LOAD CLASSIFICATION				CONNECTED LOAD (VA)		DEMAND FACTOR		EST. DEMAND (VA)		PANEL TOTALS			
LIGHTING (L)				395.0		125.00%		493.8		TOTAL CONN. LOAD (VA): 395			
										TOTAL EST. DEMAND (VA): 493.75			
										TOTAL CONN. (A): 3.3			
										TOTAL EST. DEMAND (A): 4.2			

1 PANEL AC-1 SCHEDULE
EL-501 NTS



2 HANDHOLE - TYPE II (AASHTO H-20 LOAD RATED)
EL-501 NTS

DATE: 11/22/2024	SCALE: NTS	
DRAWN BY: DKP	CHECKED BY: JDB	
REV.	DATE	DESCRIPTION
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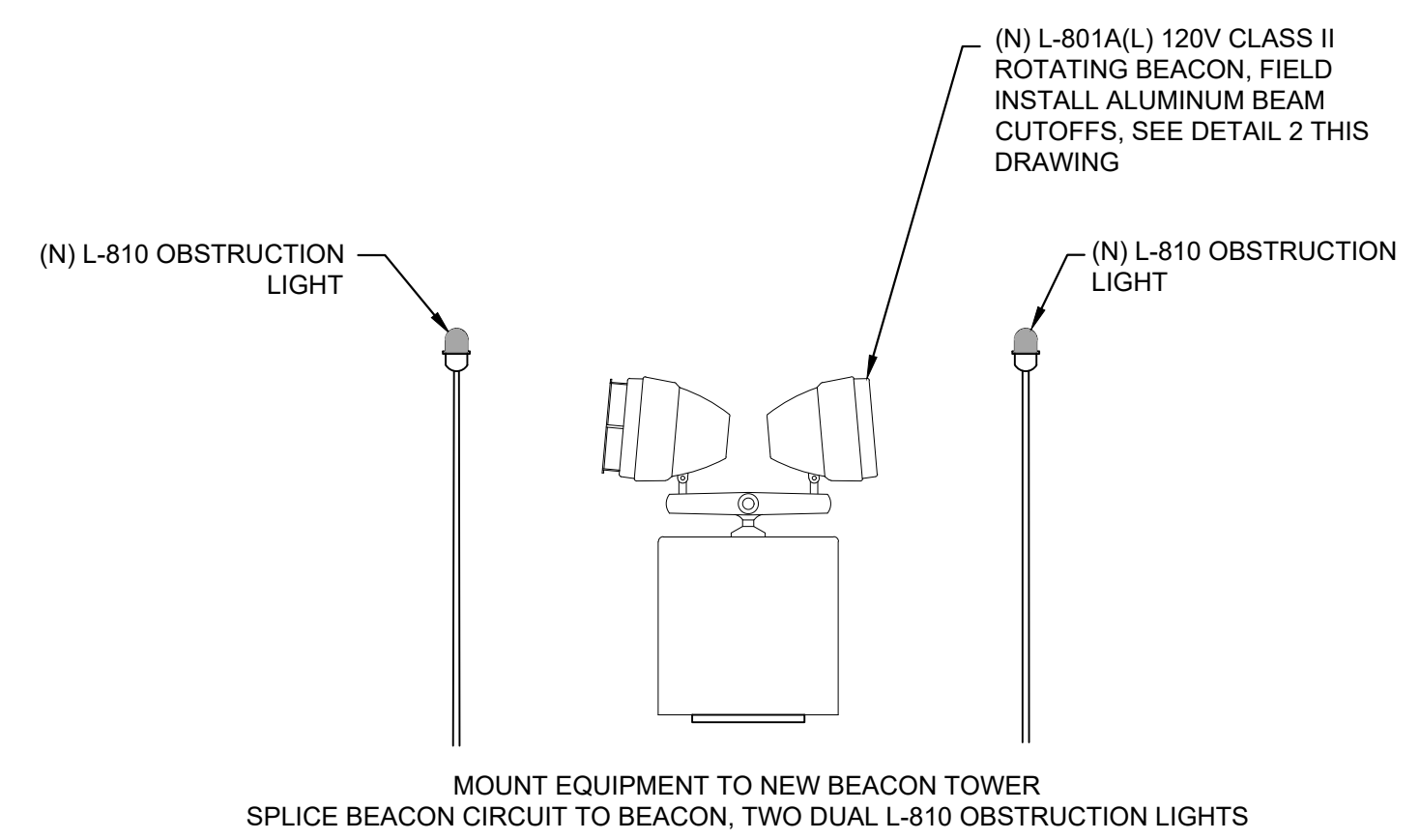
ELECTRICAL DETAILS
 CONSTRUCT REPLACEMENT PARALLEL TAXIWAY AND
 REPLACE AIRPORT ROTATING BEACON
 VILLAGE OF BOLINGBROOK
 BOLINGBROOK, WILL COUNTY, ILLINOIS

CERTIFICATION:

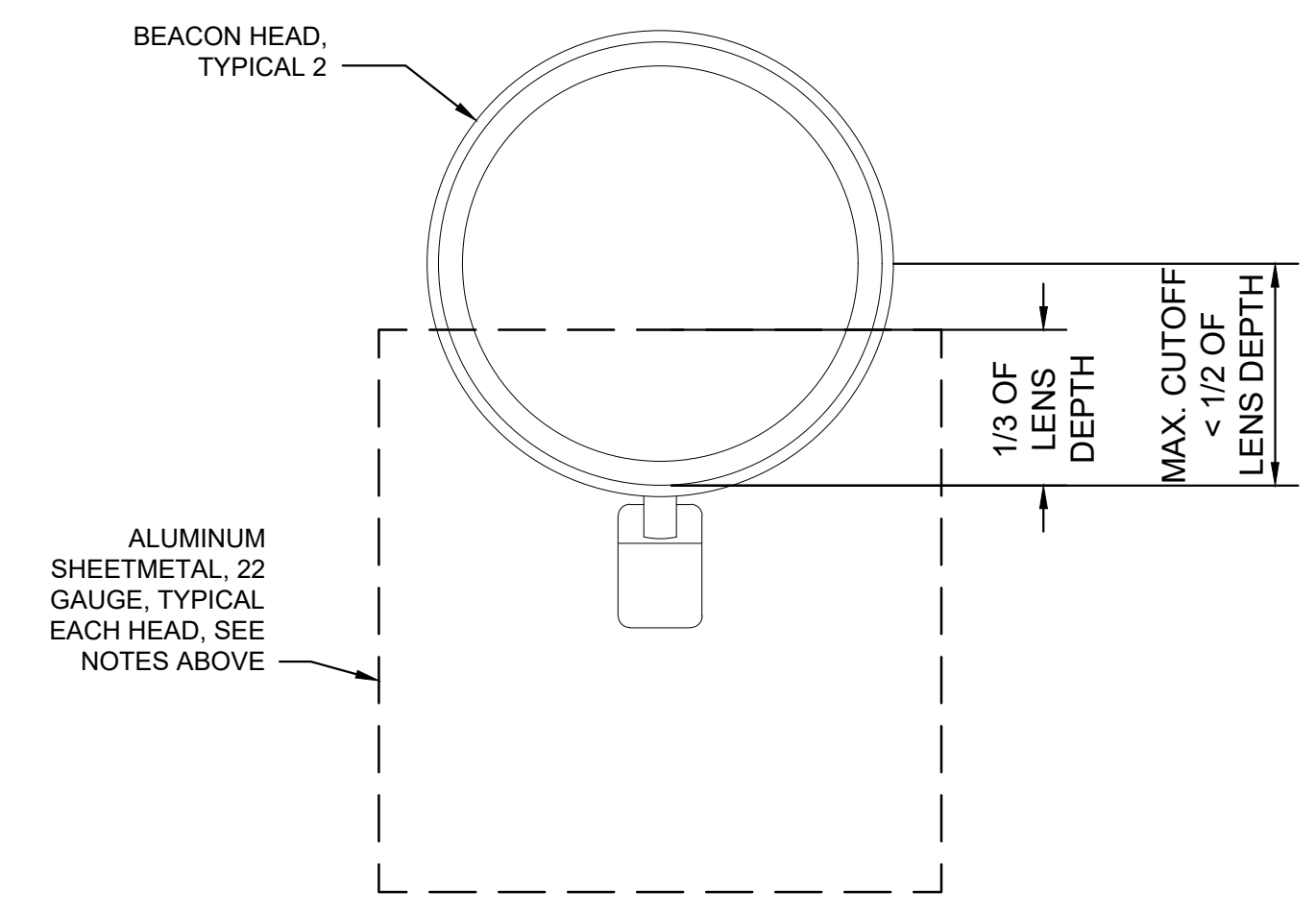
 JOSEPH D. BRADSHAW
 LICENSED PROFESSIONAL ENGINEER
 OF ILLINOIS
 EXP. 11/30/2025
 11/22/2024

DRAWING NO.
EL-501
 PROJECT NUMBER:
168001005

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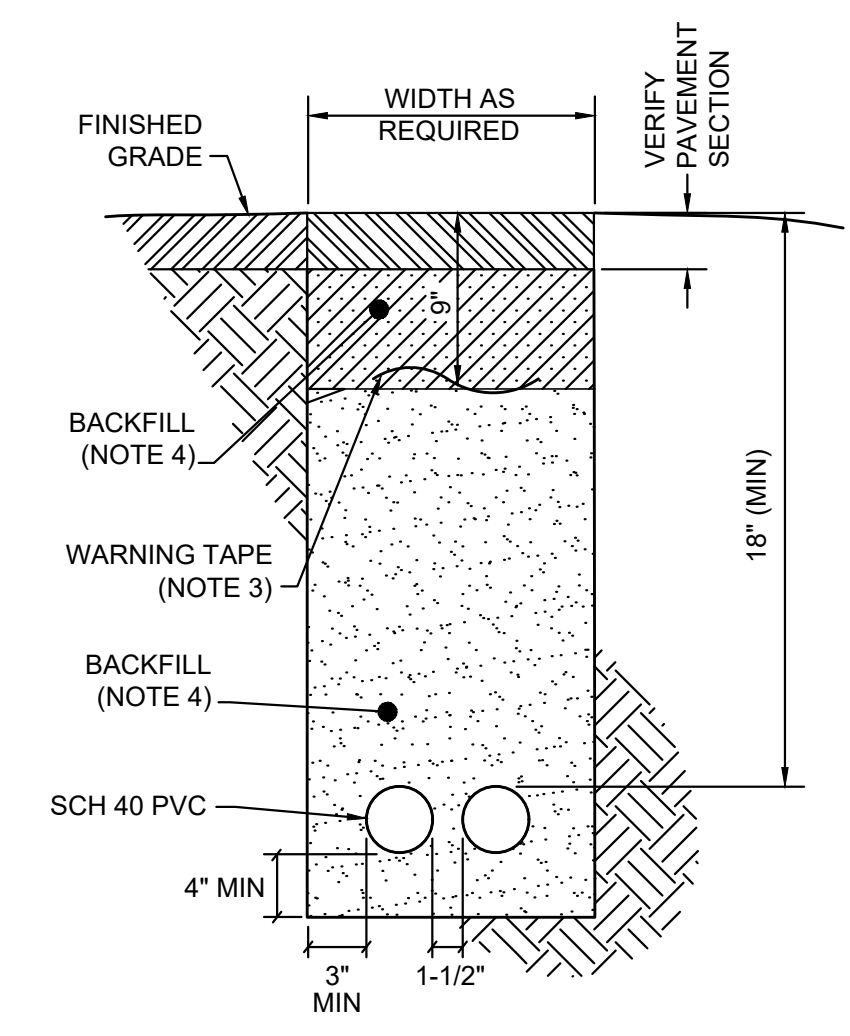


1 BEACON REPLACEMENT DETAIL
EL-502 NTS



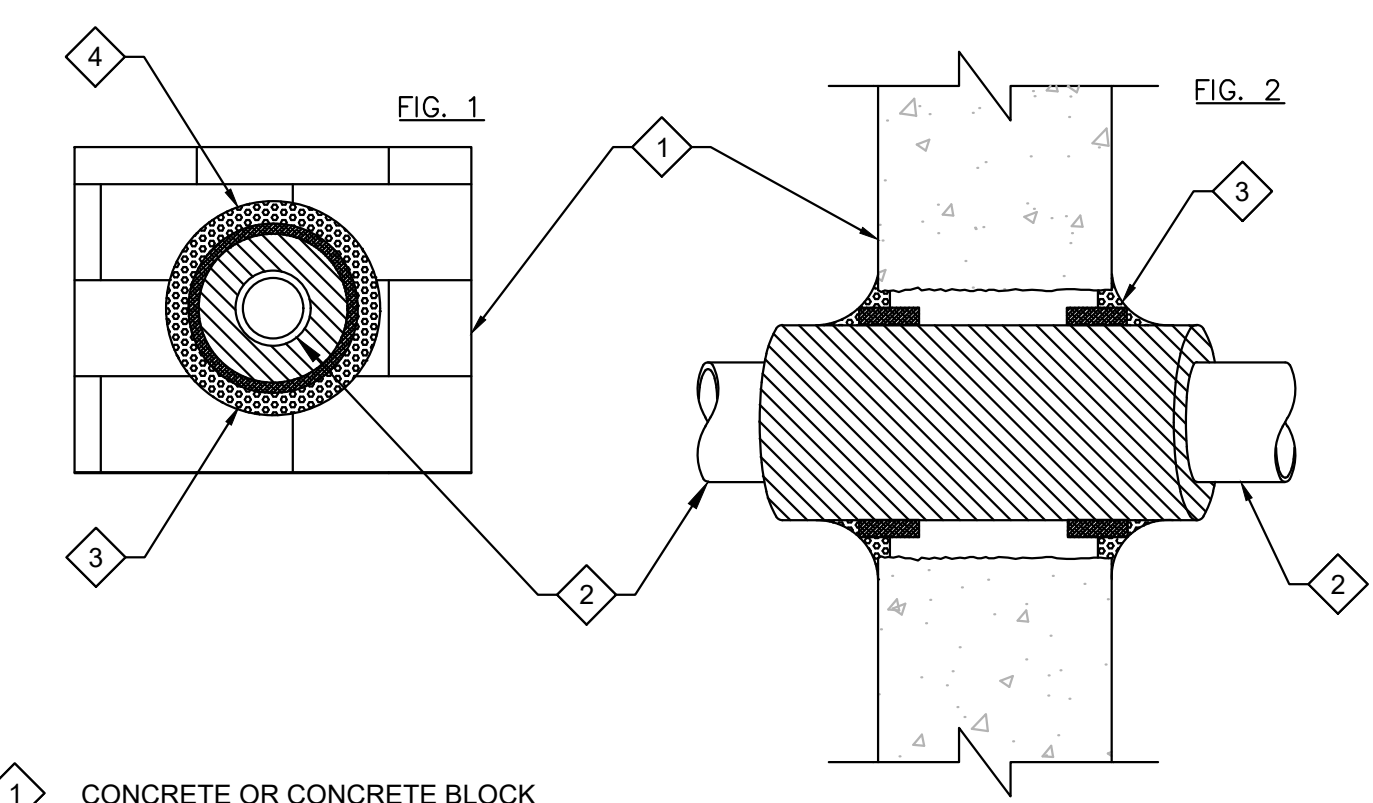
2 BEACON BEAM CUTOFF DETAIL
EL-502 NTS

- BEACON BEAM CUTOFF NOTES:**
- 22 GAUGE ALUMINUM SHEETMETAL TO BE USED FOR FIELD FABRICATION OF LIGHT CUTOFF INSIDE BOTH CLEAR LENSES. CUTOFF ANGLE TO BE DETERMINED IN THE FIELD. FOR EACH OF THE BEACON'S TWO HEADS:
- TREAT MIN. 12"x12" SECTION OF ALUMINUM SHEETMETAL AND PAINT FLAT BLACK WITH HIGH TEMPERATURE SPRAY PAINT.
 - TEMPORARILY ATTACH SHEETMETAL TO BLOCK OFF APPROXIMATE BOTTOM 1/3 OF THE LENS DEPTH.
 - ADJUST BEACON HEADS TO MAXIMUM UPWARD ANGLE.
 - RAISE BEACON INTO OPERATING POSTURE AND TURN BEACON ON.
 - CHECK TO SEE IF CUTOFF IS SUFFICIENT.
 - ADJUST CUTOFF, TO BE KEPT TO LESS THAN 1/2 OF THE LENS DEPTH, UNTIL DESIRED RESULTS ARE ACHIEVED.
 - ONCE THE DEPTH OF THE CUTOFF IS ESTABLISHED, CUT OUT THE ALUMINUM SHEETMETAL TO FIT DIRECTLY INSIDE THE LOWER PORTION OF THE LENSES.
 - TOUCH UP PAINT AS NECESSARY.
 - LOOSEN THE LENS' CLIPS AND INSTALL THE CUTOFF SO THAT THE CLIPS HOLD THE LENS AND THE CUTOFF SECURELY.



3 TRENCH DETAIL
EL-502 NTS

- CONDUIT/DUCT & CABLE INSTALLATION NOTES:**
- SEE PLANS FOR REQUIRED DUCT SECTIONS. ALL OF THE SECTIONS SHOWN ON THIS DRAWING MAY NOT BE USED ON THIS PROJECT.
 - PROVIDE PULL WIRES IN ALL (NEW) UNUSED CONDUITS. PLUG CONDUIT ENDS IN HANDHOLES OR MANHOLES.
 - WARNING TAPE REQUIRED IN ALL AREAS.
 - EXCAVATION, SITE PREPARATION, AND BACKFILL IS INCIDENTAL TO ITEM AR101510, AIRPORT ROTATING BEACON.
 - BACKFILL NOTES:
D.B. APPLICATIONS: IN MULTIPLE POURS OF FLOWABLE FILL (AKA SLURRY OR CONTROLLED LOW STRENGTH MATERIAL (CLSM)). FILL TO WARNING TAPE AND THEN TO THE FINISHED GRADE OR BASE OF PAVEMENT W/ FLOWABLE FILL.



- 1 CONCRETE OR CONCRETE BLOCK WALL.
- 2 CONDUIT UP TO 4" TRADE SIZE.
- 3 SPECSEAL SERIES 100 SEALANT. INSTALL 1/4" BEAD AROUND WRAP STRIP/ CONCRETE WALL ANNULUS AFTER INSTALLATION OF WRAP STRIP(S) SHALL RANGE FROM POINT OF CONTACT TO 1/4" MAXIMUM.
- 4 SPECSEAL (SSW12 OR SSWRED) WRAP STRIP. WRAP PRODUCT AROUND CONDUIT, SECURE STEEL TIE WIRE, AND RECESS 1-3/4" INTO WALL CAVITY. SEE FIG. 3 FOR THE NUMBER OF LAYERS REQUIRED.

LAYERS OF WRAP STRIP	1	1	1	2	2

NOTE:
THE PRODUCTS USED IN THIS DESIGN SYSTEM HAVE BEEN TESTED AS FOLLOWS:

- ASTM E814 (UL1479)
- ASTM E119 (TIME/ TEMP. EXPOSURE) (COTTON WASTE IGNITION)
- ANNULAR SPACE REQUIREMENTS

4 CONDUIT PENETRATION DETAIL
EL-502 NTS

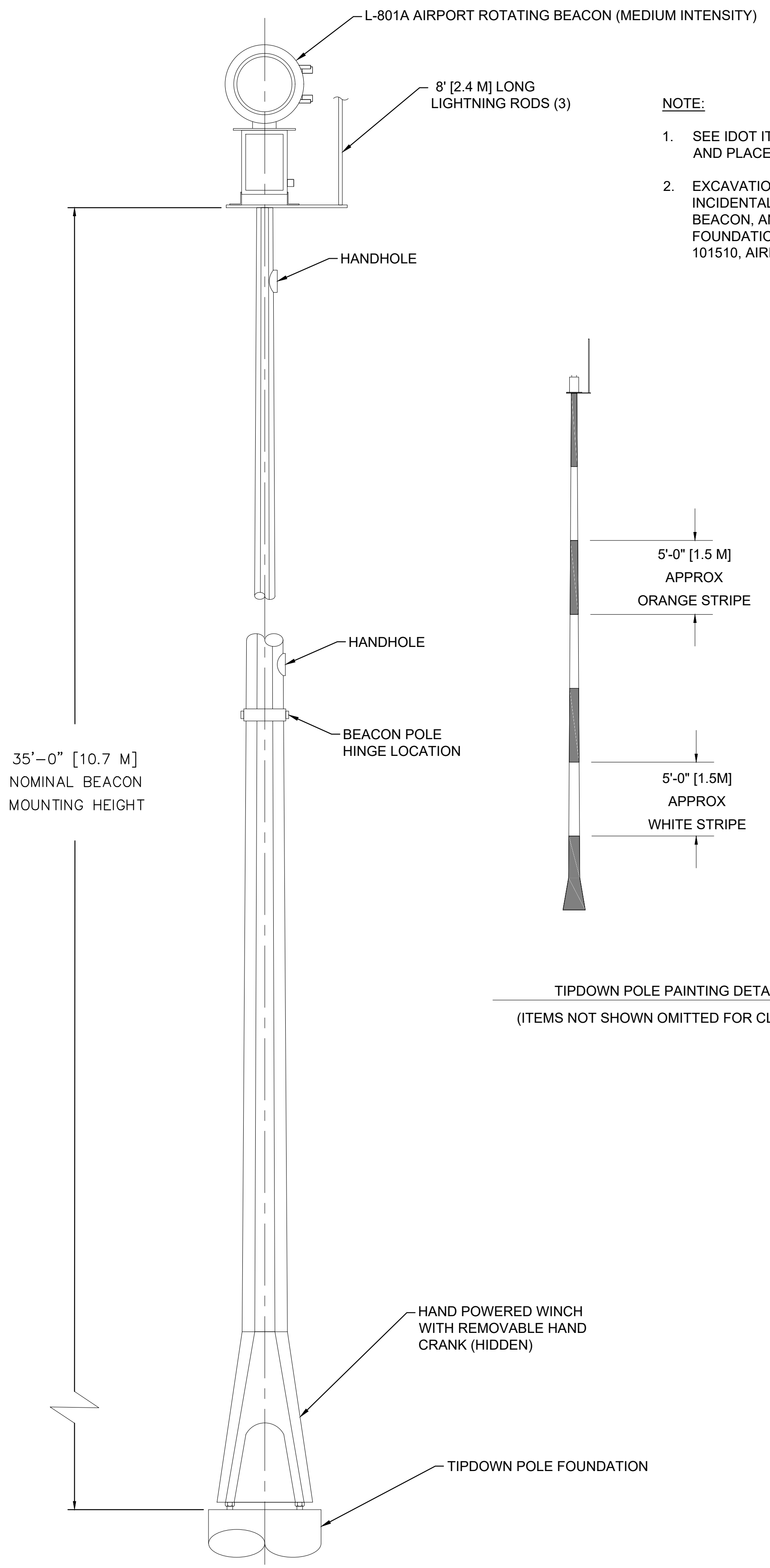
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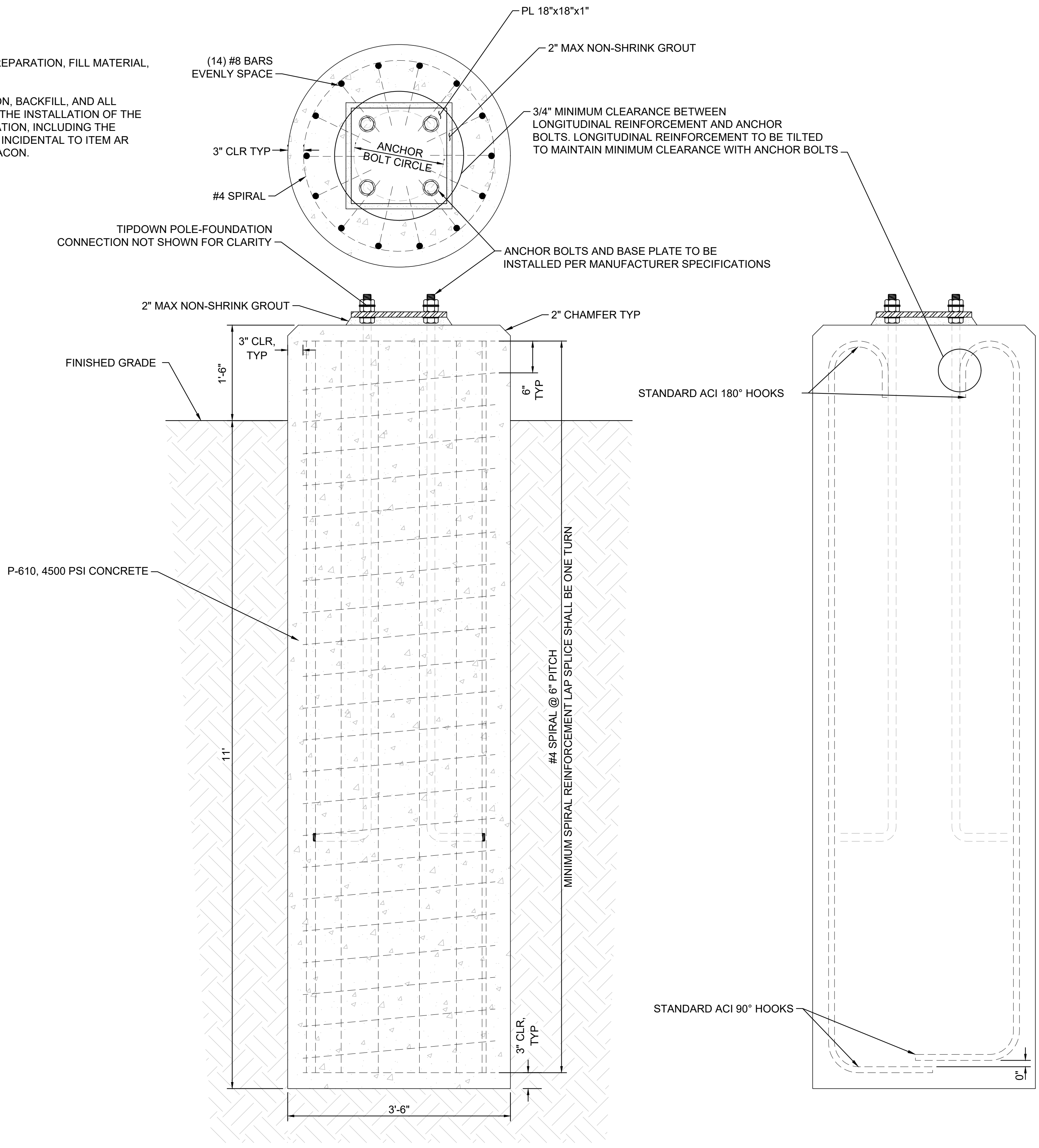
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1 TIPDOWN POLE DETAIL
EL-503 NTS

- NOTE:**
- SEE IDOT ITEM 152 FOR SITE PREPARATION, FILL MATERIAL, AND PLACEMENT NOTES.
 - EXCAVATION, SITE PREPARATION, BACKFILL, AND ALL INCIDENTALS NECESSARY FOR THE INSTALLATION OF THE BEACON, AND BEACON FOUNDATION, INCLUDING THE FOUNDATION ITSELF, SHALL BE INCIDENTAL TO ITEM AR 101510, AIRPORT ROTATING BEACON.



2 TIPDOWN POLE FOUNDATION
EL-503 NTS

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CERTIFICATION:

JOSEPH D. BRADSHAW
062-076052
OF ILLINOIS
EXP: 11/30/2025
11/22/2024

DRAWING NO.
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PROJECT NUMBER:
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