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CITY COUNCIL MEMBERS

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MARTA CASTEX-TATUM



HOUSTON AIRPORT SYSTEM

CONSTRUCTION PLANS FOR

TERMINAL A NORTH RON PARKING

2800 NORTH TERMINAL ROAD

AT

GEORGE BUSH INTERCONTINENTAL AIRPORT

PROJECT NO. 973
TIP NO. 23-311-IAH
BSG NO. 2023-356-IAH
CIP NO. A-000713
AIP NO. 3-48-0111-XX

PREPARED BY



IEA, INC.

IN ASSOCIATION WITH

FERGUSON CONSULTING, INC. * LANDTECH, INC. * RODS SUE, INC. * AVILES ENGINEERING CORP.

JUNE 3, 2024

ISSUED FOR PERMIT

CONTROLLER
CHRIS HOLLINS

CITY COUNCIL MEMEBERS AT-LARGE

JULIAN RAMIREZ
WILLIE DAVIS
TWILA CARTER
LETITIA PLUMMER
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HOUSTON AIRPORT SYSTEM

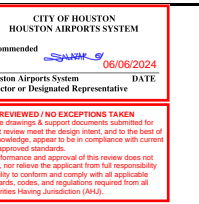
GEORGE BUSH INTERCONTINENTAL
AIRPORT HOUSTON, TEXAS



13501 Katy Freeway
Suite 3425
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TBPE Firm Registration No.
F-10161

REVISIONS

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TERMINAL A NORTH RON PARKING
AT GEORGE BUSH INTERCONTINENTAL AIRPORT

COVER SHEET

T.I.P. No. 23-311-IAH B.S.G. No. 2023-356-IAH

ISSUED FOR PERMIT

PROJECT MGR: DA
DESIGNER: ZJ
DRAWN BY: ZJ
CHECKED BY: BS
SCALE: NTS
DATE: 06/03/2024



DEPARTMENT OF AVIATION

APPROVED BY: DATE:

HOUSTON AIRPORT SYSTEMS
AUTHORIZED REPRESENTATIVE

PROJECT NO.

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C.I.P. NO.

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H.A.S. NO.

SHEET NO.

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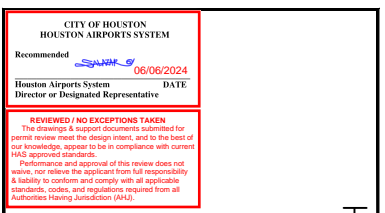


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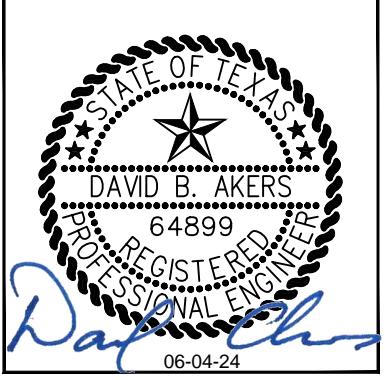
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SHEET NO.	

GI.01

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SUMMARY OF QUANTITIES				
PAY ITEM	SPEC ITEM	ITEM DESCRIPTION	UNIT	ESTIMATED QUANTITY
1	01-35-13.14	SAFETY AND SECURITY	LS	1
2	C-105	MOBILIZATION	LS	1
3	01410	SWPPP, TPDES REQUIREMENTS	LS	1
4	01575	INSTALLATION AND REMOVAL OF STABILIZED CONSTRUCTION EXIT	EA	1
5	01-59-01	MISCELLANEOUS TEMPORARY CONSTRUCTION ITEMS	LS	1
6	32-01-90.34	PAVEMENT MARKING OBLITERATION	SF	25000
7	P-101	16"-16.75" CONCRETE PAVEMENT REMOVAL	SY	3280
8	P-101	2" ASPHALT BOND BREAKER REMOVAL	SY	1640
9	P-101	16"-16.5" CEMENT TREATED BASE REMOVAL	SY	3280
10	P-101	4" ASPHALT SHOULDER PAVEMENT REMOVAL	SY	2580
11	P-101	12" CRUSHED CONCRETE BASE REMOVAL (SHOULDER)	SY	2580
12	02221	REMOVE AND DISPOSE 8" NON-PERFORATED PVC	LF	68
13	P-152	UNCLASSIFIED EXCAVATION EXCESS	CY	10505
14	31 32 13.26	8" LIME / FLY ASH TREATED SUBGRADE	SY	13850
15	31 32 13.26	LIME (FOR LIME / FLY ASH TREATED SUBGRADE)	TN	202.5
16	31 32 13.26	FLY ASH (FOR LIME / FLY ASH TREATED SUBGRADE)	TN	298.5
17	P-209	12" AGGREGATE BASE (BENEATH ASPHALT SHOULDER)	SY	850
18	P-304	6" CEMENT TREATED BASE COURSE (BENEATH CONCRETE PAVEMENT)	SY	13100
19	P-501	17" PORTLAND CEMENT CONCRETE PAVEMENT	SY	12750
20	P-501	FULL DEPTH REPLACEMENT OF CONCRETE PANELS ON TAXIWAY NR	EA	2
21	P-403	4" BITUMINOUS SURFACE COURSE (ASPHALT SHOULDER)	SY	850
22	P-602	EMULSIFIED PRIME COAT	LS	1
23	P-603	EMULSIFIED TACK COAT	LS	1
24	P-604	COMPRESSION JOINT SEAL	LF	12850
25	P-605	HOT POUR SEALANT AND BACKER ROD	LF	520
26	P-620	YELLOW PAVEMENT MARKING WITH GLASS BEADS	SF	13000
27	P-620	BLACK PAVEMENT MARKING	SF	17600
28	P-620	WHITE PAVEMENT MARKING WITH GLASS BEADS	SF	1650
29	P-620	RED PAVEMENT MARKING WITH GLASS BEADS	SF	1650
30	T-904	SODDING, FERTILIZER	SY	2850
31	T-905	TOPSOIL - 4" DEPTH	SY	2850
32	02260	TRENCH SAFETY, ALL DEPTHS	LF	600
33	D-701	42" STORM SEWER RCP (CLASS V)	LF	25
34	D-701	36" STORM SEWER RCP (CLASS V)	LF	330
35	D-701	24" STORM SEWER RCP (CLASS V)	LF	45
36	D-701	18" STORM SEWER RCP (CLASS V)	LF	30
37	D-705	6" UNDERDRAIN, PERFORATED PVC	LF	500
38	D-705	8" UNDERDRAIN, PERFORATED PVC	LF	5
39	D-705	8" UNDERDRAIN, NON-PERFORATED PVC	LF	45
40	D-751	INSTALL AIRCRAFT RATED TY-A INLETS, PRE-CAST	EA	8
41	D-751	ADJUST EXISTING STRUCTURE TO NEW GRADE AND MAKE AIRCRAFT RATED	EA	5
42	D-751	UNDERDRAIN INSPECTION PIT	EA	1
43	D-751	UNDERDRAIN CLEANOUT	EA	2
44	D-751	JUNCTION BOX	EA	2
45	D-701	CONNECTION TO EX. INLET	EA	1
46	D-701	STORMCEPTOR	EA	2
47	D-751	TRENCH DRAIN CAST IN PLACE	LF	130
48	D-751	DUAL TRENCH DRAINS CAST IN PLACE	LF	78

SUMMARY OF QUANTITIES				
PAY ITEM	SPEC ITEM	ITEM DESCRIPTION	UNIT	ESTIMATED QUANTITY
49	X-105-5.1	REMOVE NO. 8 AWG, L-824C IN DUCT	LF	675
50	X-105-5.2	REMOVE 2-INCH CONDUIT (INCLUDING CABLE)	LF	2015
51	X-105-5.3	REMOVE AND DISPOSE OF EXISTING BASE CAN, SALVAGE ELEVATED FIXTURE	EA	27
52	X-105-5.4	REMOVE AND SALVAGE IN-PAVEMENT CENTERLINE LIGHT, BASE TO REMAIN	EA	14
53	X-105-5.5	REMOVE AND DISPOSE OF EXISTING GUIDANCE SIGN INCLUDING FOUNDATION	EA	5
54	X-105-5.6	REMOVE AND SALVAGE GUIDANCE SIGN, REMOVE SIGN FOUNDATION	EA	2
55	X-105-5.7	REMOVE GUIDANCE SIGN FOUNDATION	EA	1
56	X-105-5.8	REMOVE EXISTING MANHOLE	EA	3
57	X-105-5.9	REMOVE CONCRETE ENCASED DUCT IN EARTH	LF	100
58	L-108-5.1	NO. 8 AWG, L-824C CABLE, INSTALLED IN CONDUIT	LF	3610
59	L-108-5.2	NO. 6 AWG BARE COUNTERPOISE WIRE, INSTALLED IN CONDUIT TRENCH	LF	555
60	L-108-5.3	TEMPORARY ELECTRICAL PROVISIONS	LS	1
61	L-110-5.1	PROCURE AND INSTALL 1-WAY, 2" SCHED 40 PVC CONDUIT, CONCRETE ENCASED IN NEW SHOULDER PAVEMENT	LF	545
62	L-110-5.2	PROCURE AND INSTALL 1-WAY, 2" SCHED 40 PVC CONDUIT IN TURF	LF	20
63	L-110-5.3	PROCURE AND INSTALL 2-WAY, 4" SCHED 40 PVC CONDUIT, CONCRETE ENCASED IN NEW PAVEMENT SECTION	LF	415
64	L-110-5.4	PROCURE AND INSTALL 4-WAY, 4" SCHED 40 PVC CONDUIT, CONCRETE ENCASED IN NEW PAVEMENT SECTION	LF	30
65	L-110-5.5	PROCURE AND INSTALL 4-WAY, 4" SCHED 40 PVC CONDUIT, CONCRETE ENCASED IN EARTH	LF	375
66	L-115-5.1	ADJUST EXISTING STRUCTURE TO NEW GRADE AND MAKE AIRCRAFT RATED	EA	12
67	L-125-5.1	INSTALL NEW ELEVATED LED TAXIWAY EDGE LIGHT FIXTURE ON NEW L-867B BASE CAN	EA	6
68	L-125-5.2	INSTALL BLANK COVER ON EXISTING L-868B BASE CAN	EA	14
69	L-125-5.3	NEW GUIDANCE SIGN ON NEW SIGN FOUNDATION, 3 MODULE	EA	2
70	L-125-5.4	INSTALL NEW SIGN PANEL ON EXISTING GUIDANCE SIGN, 3 MODULE	EA	2
71	L-125-5.5	INSTALL SALVAGED SIGN PANEL ON EXISTING GUIDANCE SIGN	EA	3

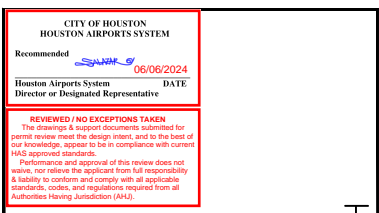


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TERMINAL A NORTH RON PARKING
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SUMMARY OF QUANTITIES

T.I.P. No. 23-311-IAH B.S.G. No. 2023-356-IAH

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PROJECT MGR:	DA
DESIGNER:	ZJ
DRAWN BY:	ZJ
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SCALE:	NTS
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DEPARTMENT OF AVIATION

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HOUSTON AIRPORT SYSTEMS
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PROJECT NO.	PN 973
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SHEET NO.	

GI.02

GENERAL CONTRACT NOTES

1. THE TERM "CITY" USED THROUGHOUT THE PLANS AND SPECIFICATIONS SHALL REFER TO THE CITY OF HOUSTON, TEXAS.
2. THE TERM "AIRPORT" USED THROUGHOUT THE PLANS AND SPECIFICATIONS SHALL REFER TO THE GEORGE BUSH INTERCONTINENTAL AIRPORT. THE TERM "AIRPORT" SHALL ALSO BE INTERPRETED TO MEAN "AIRPORT MANAGEMENT AND/OR OPERATIONS STAFF".
3. THE TERM "OWNER" USED THROUGHOUT THE PLANS AND SPECIFICATIONS SHALL REFER TO THE LEGAL OWNER OF THE AIRPORT. THE TERM "OWNER" SHALL ALSO BE INTERPRETED TO MEAN "OWNER'S REPRESENTATIVE". THE TERM "OWNER" MAY ALSO BE USED INTERCHANGEABLY WITH THE TERM "CITY", "HOUSTON AIRPORT SYSTEM (HAS)", AND/OR "AIRPORT", AS APPLICABLE.
4. ALL EQUIPMENT REQUIRED TO COMPLETE THE PROJECT SHALL BE PROVIDED BY THE CONTRACTOR AND SHALL BE CONSIDERED SUBSIDIARY TO THE VARIOUS PAY ITEMS OF THE PROJECT.
5. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN ALL APPLICABLE PERMITS FOR CONSTRUCTION AND EQUIPMENT. COPIES OF ALL PERMITS SHALL BE PROVIDED AS SUBMITTALS, IN ACCORDANCE WITH SUBMITTAL PROCEDURES PROVIDED BY THE OWNER. PERMITS SHALL BE CONSIDERED PART OF THE EQUIPMENT PROVIDED BY THE CONTRACTOR AND SHALL BE CONSIDERED SUBSIDIARY TO THE VARIOUS PAY ITEMS OF THE PROJECT.
6. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR MAINTAINING CONSTANT COORDINATION BETWEEN ANY AND ALL SUBCONTRACTORS AND THE OWNER'S REPRESENTATIVE. ALL CONSTRUCTION ACTIVITIES PLANNED BY THE CONTRACTOR SHALL BE REVIEWED AND APPROVED BY THE OWNER'S REPRESENTATIVE.
 - A. COORDINATION WITH AIRPORT OPERATIONS SHALL BE PERFORMED BY PHONE (281) 233-1131.
 - B. CONTACT HAS IT COMMUNICATIONS A MINIMUM OF 48 HOURS PRIOR TO EXCAVATION IN THE VICINITY OF FAA INFRASTRUCTURE LINES TO MARK LINES. SHAWN SUSKI (281) 233-1900, EMAIL: HAS.SERVICEDesk@HOUSTONTX.GOV
7. THE CONTRACTOR'S PROJECT SUPERINTENDENT OR HIS/HER DESIGNATED ASSISTANT MUST BE ON SITE DURING ALL WORK ACTIVITIES, INCLUDING THOSE BY SUBCONTRACTORS, SUPPLIERS, OR ANY PERSON UNDER CONTRACTOR CONTROL. THE CONTRACTOR'S PROJECT SUPERINTENDENT SHALL BE THE DESIGNATED RESPONSIBLE CONTRACTOR REPRESENTATIVE AND SHALL BE AVAILABLE IN CASE OF EMERGENCIES ON A 24-HOUR BASIS.
8. THROUGHOUT THE COURSE OF CONSTRUCTION, THE CONTRACTOR SHALL SHAPE EACH CONSTRUCTION AREA TO MAINTAIN POSITIVE (CONTINUOUS AND FLOWING) DRAINAGE OF SURFACE WATER DURING EACH CONSTRUCTION OPERATION AND NOT RESTRICT THE EXISTING DRAINAGE FLOW PATTERNS.
 - A. IF NECESSARY, THE CONTRACTOR SHALL PROVIDE AND INSTALL DRAINAGE PROVISIONS (I.E. STRUCTURES) NECESSARY TO MEET THESE REQUIREMENTS.
 - B. IF NECESSARY, SURFACE WATER SHALL BE PUMPED IMMEDIATELY AFTER A RAIN EVENT FROM EACH CONSTRUCTION AREA.
 - C. ALL TEMPORARY DRAINAGE AND DEWATERING ACTIONS SHALL BE IN ACCORDANCE WITH SECTION 01578 - CONTROL OF GROUND AND SURFACE WATER.
 - D. AT THE END OF THE PROJECT, THE CONTRACTOR SHALL RESTORE ALL GRADES, PER DESIGN PLANS, AND REMOVE ALL TEMPORARY DRAINAGE PROVISIONS.
 - E. THE COST OF TEMPORARY DRAINAGE AND DEWATERING SHALL BE SUBSIDIARY TO THE CONTRACT.
9. THE EXISTING CONDITIONS SHOWN IN THE PLANS WERE DEVELOPED FROM AS-BUILT INFORMATION SUPPLEMENTED BY CASUAL VISUAL OBSERVATIONS, TOPOGRAPHIC SURVEY, AND GEOTECHNICAL INVESTIGATIONS. THE ENGINEER DOES NOT WARRANT THE EXISTING CONDITIONS AS ALL INCLUSIVE OR EXACT, BUT RATHER AS THE BEST AVAILABLE KNOWLEDGE AT THE TIME OF PROJECT DESIGN. THE CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS AND SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES IMMEDIATELY WHEN FOUND, PRIOR TO PERFORMING ANY CONSTRUCTION ACTIVITIES.
10. ALL COORDINATES PROVIDED WITHIN THESE PLANS SHALL BE FIELD VERIFIED BEFORE THEIR USE. ANY DISCREPANCIES SHALL BE IMMEDIATELY REPORTED TO THE ENGINEER.
11. THE PROJECT PAY ITEMS PROVIDED SHALL BE INCLUSIVE OF ALL WORK TO BE PERFORMED AS SHOWN IN THE PLANS OR DESCRIBED IN THE SPECIFICATIONS. ANY WORK DESCRIBED IN THE PLANS OR SPECIFICATIONS THAT IS NOT PAID FOR DIRECTLY BY A SPECIFIC BID ITEM SHALL BE CONSIDERED SUBSIDIARY TO THE COST OF PROJECT PAY ITEMS OF WHICH IT IS A COMPONENT.

DEMobilIZATION NOTES

1. CONDITIONS OF THE PROJECT AREA AND SURROUNDING AREAS UPON COMPLETION OF THE PROJECT SHALL BE AS GOOD AS OR BETTER THAN THE CONDITION PRIOR TO STARTING WORK, IN ADDITION TO THE WORK ITEMS LISTED.
2. THE PROJECT SHALL BE FREE OF ANY CONTRACTOR STOCKPILE MATERIALS UPON COMPLETION OF THE PROJECT, UNLESS OTHERWISE DIRECTED BY THE OWNER'S REPRESENTATIVE.
3. UPON COMPLETION OF THE PROJECT, ALL HAUL ROUTES SHALL BE PROPERLY CLEANED TO PREVENT OBSTRUCTION AND/OR CAUSE INCONVENIENCE TO NORMAL REGULAR TRAFFIC. ALL TEMPORARY HAUL ROUTES SHALL BE REMOVED.
4. THE CONTRACTOR SHALL RESTORE ANY STAGING/STORAGE AREAS UPON COMPLETION OF THE PROJECT INCLUDING, AT MINIMUM, REPAIR OF EXISTING FACILITIES, REGRADING, AND TOPSOILING AND ESTABLISHING VEGETATION, AS APPLICABLE.
5. ALL CONSTRUCTION EQUIPMENT AND ANY FACILITIES TEMPORARILY PLACED ON SITE FOR THE PROJECT SHALL BE REMOVED FROM THE SITE.
6. ANY PROPERTIES BELONGING TO THE OWNER SHALL BE RETURNED TO THE OWNER.
7. PROPER DRAINAGE (NO LOCALIZED PONDING) SHALL BE MAINTAINED, PRIOR TO, DURING, AND AFTER MOBILIZATION/DEMobilIZATION.
8. DEMobilIZATION SHALL BE COMPLETED TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE, AS APPROPRIATE, AND SHALL BE COMPLETED IN A MANNER THAT WILL MINIMIZE INCONVENIENCE TO AIRPORT OPERATIONS. ANY DAMAGE TO THE AIRPORT FACILITIES DURING DEMobilIZATION SHALL BE REPAIRED AND PAID FOR AT THE CONTRACTOR'S EXPENSE. THE COST OF DEMobilIZATION SHALL BE CONSIDERED SUBSIDIARY TO THE COST OF MOBILIZATION.

CONTRACTOR'S STAGING/STORAGE AREA, STOCKPILE AREA, DISPOSAL AREA AND BATCH PLANT SITE NOTES

1. STOCKPILES, STAGING/STORAGE AREAS, AND/OR DISPOSAL AREAS SHALL BE AS SHOWN IN THE PLANS, OR AS COORDINATED/NEGOTIATED WITH THE OWNER. THESE AREAS SHALL NOT CREATE ANY PONDING OF WATER OR ALTER DRAINAGE PATTERNS OF THE AIRPORT PROPERTY.
2. STOCKPILES, STAGING/STORAGE AREAS, AND/OR DISPOSAL AREAS WILL NOT BE PLACED WITHIN ANY WATER OF THE UNITED STATES, INCLUDING WETLANDS, WATER BODIES, AND STREAM BEDS. THESE AREAS SHALL BE CONSTRUCTED IN A MANNER TO PROHIBIT THE RUNOFF OF POLLUTANTS AND CONTROL SILT/SEDIMENT MOVEMENT. ALL WATERWAYS SHALL BE CLEARED AS SOON AS PRACTICAL OF TEMPORARY EMBANKMENTS, TEMPORARY BRIDGES, MATTING, FALSE WORK, PILING, DEBRIS OR OTHER OBSTRUCTIONS PLACED DURING CONSTRUCTION OPERATIONS THAT ARE NOT PART OF THE FINISHED WORK.
3. STOCKPILED MATERIALS AND EQUIPMENT STORAGE ARE NOT PERMITTED WITHIN ANY RUNWAY/TAXIWAY SAFETY AREA OR OBJECT FREE AREA.
4. MATERIALS STORED OR STOCKPILED ON THE AIRPORT SHALL BE SO PLACED AND THE WORK SHALL, AT ALL TIMES, BE CONDUCTED SO AS TO CAUSE NO GREATER OBSTRUCTION TO THE AIR AND GROUND TRAFFIC THAN IS ALLOWED IN THE PLANS OR APPROVED BY THE OWNER. STOCKPILES MUST COMPLY WITH OBSTRUCTION HEIGHT REQUIREMENTS FOR PROTECTED AIRSPACE (TRANSITIONAL SURFACE OR PRIMARY SURFACE) AS PROVIDED IN THE CODE OF FEDERAL REGULATIONS, PART 77, SAFE, EFFICIENT USE, AND PRESERVATION OF THE NAVIGABLE AIRSPACE.
5. STOCKPILE GEOMETRIES MUST COMPLY WITH ALL APPLICABLE OSHA REGULATIONS.
6. STOCKPILED MATERIAL AND OPEN EXCAVATIONS SHALL BE TREATED IN SUCH A MANNER AS TO PREVENT MOVEMENT RESULTING FROM AIRCRAFT BLAST OR WIND CONDITIONS IN EXCESS OF 10 MILES PER HOUR.
7. STOCKPILED MATERIALS SHALL BE SEGREGATED FROM UNDERLYING MATERIALS BY IMPERVIOUS MEANS APPROVED BY THE OWNER'S REPRESENTATIVE.
8. CONTRACTOR STAGING/STORAGE AREAS
 - A. THE CONTRACTOR MAY STORE CONSTRUCTION EQUIPMENT AND MATERIALS IN THE CONTRACTOR'S STAGING AREA, THE CONTRACTOR SHALL LIMIT ANY EQUIPMENT AND MATERIAL STORAGE TO THE SMALLEST POSSIBLE FOOTPRINT.
 - B. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SECURITY OF HIS/HER OWN EQUIPMENT AND MATERIALS, AND ANY ASSOCIATED SECURITY APURTENANCES. ANY SECURITY MEASURES DEEMED NECESSARY BY THE CONTRACTOR IN THE PROTECTION OF HIS/HER OWN EQUIPMENT AND MATERIALS SHALL BE CONSIDERED INCIDENTAL TO THE OVERALL PERFORMANCE OF THE WORK ASSOCIATED WITH THE PROJECT.
 - C. THE CONTRACTOR SHALL MAKE MODIFICATIONS WITHIN THE STAGING AREA WHEN DEEMED NECESSARY BY AIRPORT OPERATIONS OR OWNER PERSONNEL. UPON COMPLETION OF THE WORK, THE CONTRACTOR SHALL RESTORE ALL STAGING AREAS TO ORIGINAL CONDITIONS. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO OVERALL PERFORMANCE OF THE WORK ASSOCIATED WITH THE PROJECT.
 - D. ANY AREAS UTILIZED AS CONSTRUCTION STAGING AREAS SHALL BE MAINTAINED AT ALL TIMES IN A CLEAN AND ENVIRONMENTALLY SAFE CONDITION.
9. NO CONTRACTOR EMPLOYEE VEHICLES WILL BE ALLOWED WITHIN THE AOA. CONTRACTOR EMPLOYEE PARKING SHALL BE OR AS DIRECTED BY THE OWNER. THE CONTRACTOR SHALL THEN SHUTTLE HIS/HER EMPLOYEES TO THE PROJECT SITE TO REDUCE VEHICLE TRAFFIC IN THE AOA.
10. ALL CONTRACTOR VEHICLES AND EQUIPMENT SHALL BE PARKED IN THE STAGING/STORAGE AREAS WHEN NOT IN USE. NO EQUIPMENT WILL BE ALLOWED TO REMAIN WITHIN ANY OFA OR TOFA WHEN WORK IS NOT BEING PERFORMED.
11. STAGING AREAS MAY OR MAY NOT HAVE UTILITIES PRESENT. ANY UTILITIES REQUIRED BY THE CONTRACTOR SHALL BE COORDINATED WITH THE RESPECTIVE UTILITY OWNERS AND SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
12. DISPOSAL AREAS
 - A. ALL UNSUITABLE MATERIALS, EXCESS EARTHWORK EXCAVATION, WASTE AND/OR SPOIL MATERIALS SHALL BE DISPOSED OF OFF THE AIRPORT PROPERTY BY THE CONTRACTOR IN A LICENSED LANDFILL IN ACCORDANCE WITH LOCAL LAWS AND REGULATIONS, UNLESS OTHERWISE NOTED. NO MATERIAL SHALL BE WASTED ON THE AIRPORT SITE UNLESS APPROVED BY THE OWNER. THIS SHALL BE CONSIDERED SUBSIDIARY TO THE CONTRACT.
 - B. ANY APPROVED ON-AIRPORT WASTE AND DISPOSAL AREA SHALL BE SEEDED AND RESTORED IN A SMOOTH, GRADED AND DRAINABLE CONDITION AT NO ADDITIONAL COST TO THE OWNER.
 - C. PRIOR TO THE COMMENCEMENT OF WORK, THE CONTRACTOR SHALL SUBMIT, IN ACCORDANCE WITH SECTION 01330 - SUBMITTAL PROCEDURES, DOCUMENTATION OF THE QUANTITY TO BE DISPOSED OF, LOCATION OF THE DISPOSAL SITE, AND DOCUMENTATION OF CITY OR LOCAL GOVERNMENT ACCEPTANCE OF THOSE MATERIALS.
13. PRIOR TO THE COMMENCEMENT OF WORK, THE CONTRACTOR SHALL RECORD THE EXISTING CONDITIONS OF THE ALL PROPOSED STAGING/STORAGE AREAS, STOCKPILE AREAS, DISPOSAL AREA, AND BATCH PLANT AREAS VIA PHOTOGRAPH OR VIDEO DOCUMENTATION. ALL DOCUMENTATION SHALL BE SUBMITTED TO THE OWNER PRIOR TO DISTURBING THESE AREAS.
14. ALL COSTS ASSOCIATED WITH THE INSTALLATION, MAINTENANCE, REPAIR, AND REMOVAL OF ONSITE STAGING/STORAGE AREAS, STOCKPILE AREAS, DISPOSAL AREA, AND BATCH PLANT AREAS INCLUDING LABOR, EQUIPMENT, MATERIALS, AND INCIDENTALS SHALL BE SUBSIDIARY TO THE CONTRACT.
15. PRIOR TO THE COMMENCEMENT OF WORK, THE CONTRACTOR SHALL RECORD THE EXISTING CONDITIONS OF THE ALL PROPOSED HAUL ROUTE VIA PHOTOGRAPH OR VIDEO DOCUMENTATION. ALL DOCUMENTATION SHALL BE SUBMITTED TO THE OWNER PRIOR TO THE CONTRACTOR UTILIZING THE HAUL ROUTE.
16. THE CONDITION OF THE HAUL ROUTE UPON COMPLETION OF THE PROJECT SHALL BE AS GOOD AS OR BETTER THAN THE CONDITION PRIOR TO STARTING WORK.

CONTRACTOR CONSTRUCTION PROCESS NOTES

1. CONTRACTOR WILL ADHERE TO THE CODE REQUIREMENTS OF HAS AND THE CITY OF HOUSTON FOR ALL CONSTRUCTION.
2. FOR BUILDING AND STRUCTURE CONSTRUCTION, CONTRACTOR SHALL FOLLOW THE 2015 INTERNATIONAL BUILDING CODE AS ADOPTED BY THE CITY OF HOUSTON, CHAPTER 17 REGARDING SPECIAL INSPECTIONS.

DEFINITIONS AND ABBREVIATIONS

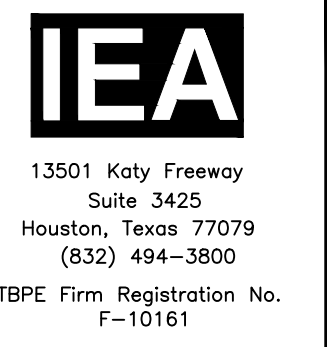
- AC - ADVISORY CIRCULAR (WITH RESPECT TO PAVEMENTS, RSA, TSA, OFA, TOFA, AND/OR OFZ) - NOT CLOSED TO AIRCRAFT TRAFFIC.
- ACTIVE -
- AGIS - AIRPORTS GEOGRAPHIC INFORMATION SYSTEM
- AGL - ABOVE GROUND LEVEL
- ANSI - AMERICAN NATIONAL STANDARDS INSTITUTE
- AOA - AIR OPERATIONS AREA
- ARFF - AIRPORT RESCUE AND FIRE FIGHTING
- ATC - AIR TRAFFIC CONTROL
- ATCT - AIRPORT TRAFFIC CONTROL TOWER

BARRICADE - THE TERM "BARRICADE" SHALL BE USED THROUGHOUT THE PLANS AND PROJECT MANUAL TO UNIVERSALLY INDICATE BARRICADES, SIGNS, DANGER SIGNALS, HAZARD LIGHTING, AND/OR ANY OTHER SAFETY MEASURES TO BE INSTALLED BY THE CONTRACTOR PRIOR TO COMMENCING WORK IN AN AREA. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING, INSTALLING, FILLING WITH WATER AND MAINTAINING THE NECESSARY BARRICADES AS REQUIRED BY THE PLANS AND SPECIFICATIONS (FAA AC 150/5370-2, CURRENT EDITION, LATEST CHANGE) FOR THE PROTECTION OF THE WORK AND THE SAFETY OF THE PUBLIC FOR BOTH LAND AND AIR TRAFFIC.

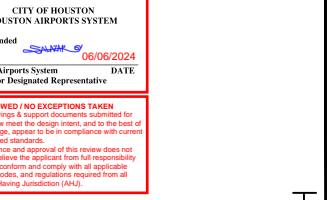
- CAT - CATEGORY
- CSPP - CONSTRUCTION SAFETY AND PHASING PLAN
- CLL - CENTER LINE LIGHT
- CLR - CLEARANCE
- COH - CITY OF HOUSTON
- CTB - CEMENT TREATED BASE
- ELEC - ELECTRIC
- FAA - FEDERAL AVIATION ADMINISTRATION
- FOD - FOREIGN OBJECT DEBRIS
- GS - GLIDE SLOPE INDICATOR
- HAS - HOUSTON AIRPORT SYSTEM
- HMAC - HOT MIX ASPHALT CONCRETE
- IAH - GEORGE BUSH INTERCONTINENTAL AIRPORT
- ILS - INSTRUMENT LANDING SYSTEM
- ISEA - INTERNATIONAL SAFETY EQUIPMENT ASSOCIATION
- LTS - LIME TREATED SUBGRADE
- MSDS - MATERIAL SAFETY DATA SHEET
- MSL - MEAN SEA LEVEL
- NAVAID - NAVIGATIONAL AID
- NOTAM - NOTICE TO AIR MISSIONS
- O.C. - ON CENTER
- OFA - OBJECT FREE AREA
- OFZ - OBJECT FREE ZONE
- OSHA - OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
- PCC - PORTLAND CEMENT CONCRETE
- QA - QUALITY ASSURANCE
- ROFA - RUNWAY OBJECT FREE AREA
- RPCC - REINFORCED PORTLAND CEMENT CONCRETE
- RPZ - RUNWAY PROTECTION ZONE
- RSA - RUNWAY SAFETY AREA
- RW - RUNWAY
- SPCD - SAFETY PLAN COMPLIANCE DOCUMENT
- SW3P - STORMWATER POLLUTION PREVENTION PLAN
- TOFA - TAXIWAY OBJECT FREE AREA
- TLOFA - TAXILANE OBJECT FREE AREA
- TSA - TAXIWAY SAFETY AREA
- TW - TAXIWAY
- TL - TAXILANE
- TYP - TYPICAL
- UNDR - UNDERGROUND
- UON - UNLESS OTHERWISE NOTIFIED
- VSR - VEHICLE SERVICE ROAD
- WAN - WORK AREA NOTIFICATION



GEORGE BUSH INTERCONTINENTAL AIRPORT HOUSTON, TEXAS

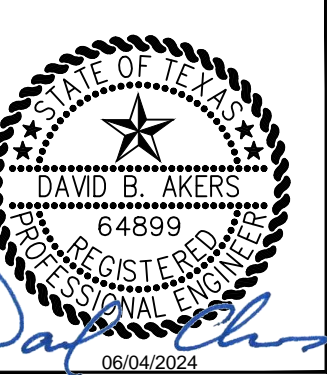


REVISIONS		
NO.	DESCRIPTION	DATE



GENERAL NOTES AND ABBREVIATIONS
 TERMINAL A NORTH IRON PARKING AT GEORGE BUSH INTERCONTINENTAL AIRPORT
 T.I.P. No. 23-311-IAH B.S.G. No. 2023-356-IAH

ISSUED FOR PERMIT	
PROJECT MGR:	DA
DESIGNER:	JK
DRAWN BY:	JK
CHECKED BY:	BS
SCALE:	NTS
DATE:	06/03/2024



DEPARTMENT OF AVIATION	
APPROVED BY:	DATE:
HOUSTON AIRPORT SYSTEMS AUTHORIZED REPRESENTATIVE	

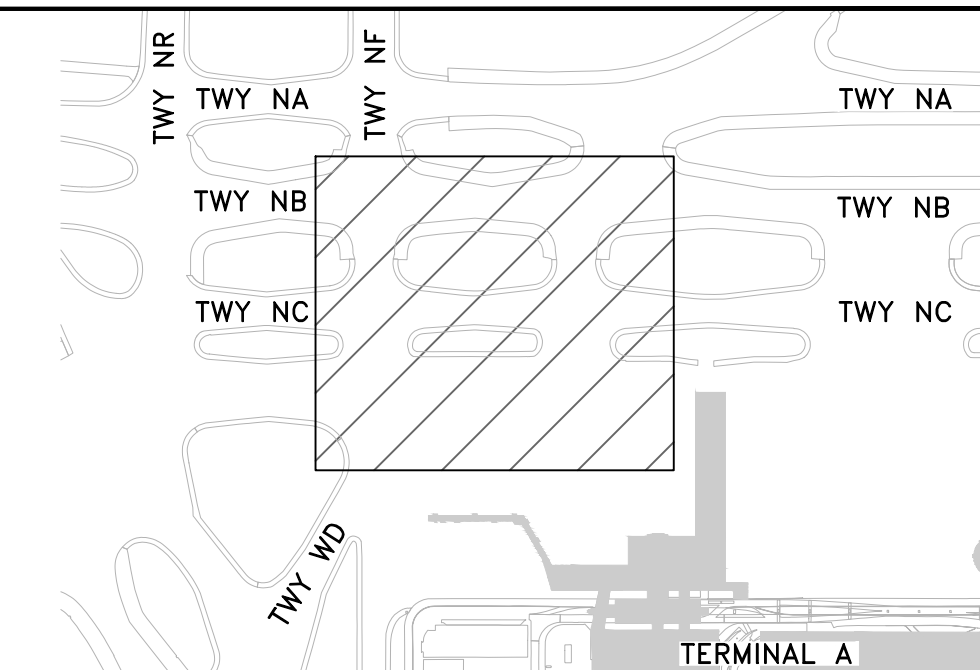
PROJECT NO.	PN 973
C.I.P. NO.	A-000713
H.A.S. NO.	
SHEET NO.	

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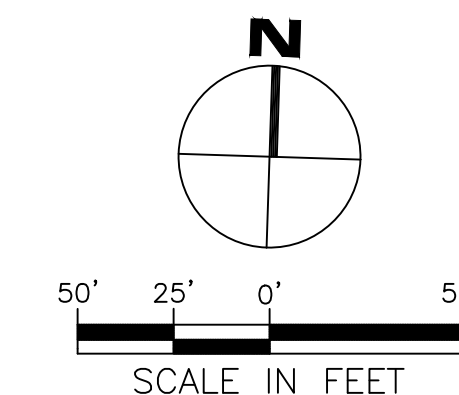
SURVEY CONTROL POINT TABLE					
PNT NO.	NORTHING	EASTING	ELEVATION	CONTROL POINT NO.	DESCRIPTION
1	13926462.84	3123017.67	90.65	CH-1	SET 5/8"IR W/LANDTECH
2	13926650.20	3123447.50	91.39	CH-2	SET 5/8"IR W/LANDTECH
3	13926488.03	3123907.01	91.67	CH-3	SET 5/8"IR W/LANDTECH
4	13926102.57	3123294.95	93.05	CH-4	SET CUT X IN CONC.
5	13926111.93	3123587.18	93.00	CH-5	SET CUT X IN CONC.
6	13925998.73	3123820.28	93.69	CH-6	SET CUT X IN CONC.
7	13926245.73	3123952.82	93.57	CH-7	SET CUT X IN CONC.
8	13926483.21	3123946.12	90.81	CH-8	SET 5/8"IR W/LANDTECH

SURVEY CONTROL POINT TABLE					
PNT NO.	NORTHING	EASTING	ELEVATION	CONTROL POINT NO.	DESCRIPTION
9	13926744.12	3123889.73	91.85	CH-9	SET 5/8"IR W/LANDTECH
10	13926745.54	6456980.14	91.77	CH-10	SET 5/8"IR W/LANDTECH
11	13926497.51	3123455.33	90.84	CH-11	SET 5/8"IR W/LANDTECH
12	13926724.92	3123256.62	91.71	CH-12	SET 5/8"IR W/LANDTECH
13	13926705.96	3123003.29	91.37	CH-13	SET 5/8"IR W/LANDTECH
14	13926457.10	3122985.05	90.28	CH-14	SET 5/8"IR W/LANDTECH
15	13926110.83	3123013.38	91.29	CH-15	SET 5/8"IR W/LANDTECH
16	13926108.39	3123491.45	93.00	CH-16	SET CUT X IN CONC.

GEOTECH SURVEY POINT TABLE					
BORING	NORTHING	EASTING	ELEVATION	BORE #	DESCRIPTION
17	13926671.14	3123339.02	94.740	B-1/DCP-1	4" DRY AUGER
18	13926677.26	3123544.05	94.320	B-2/DCP-2	4" DRY AUGER
19	13926500.84	3123353.41	94.410	B-3	4" DRY AUGER
20	13926457.91	3123557.59	94.340	B-4/DCP-4	4" DRY AUGER
21	13926359.84	3123361.29	91.817	C-5	CORE SAMPLE
22	13926350.28	3123574.43	92.040	C-6	CORE SAMPLE
23	13926660.65	3123352.50	90.876	PIT-1	PIT-1
24	13926457.46	3123532.04	90.759	PIT 2	PIT 2



KEY MAP

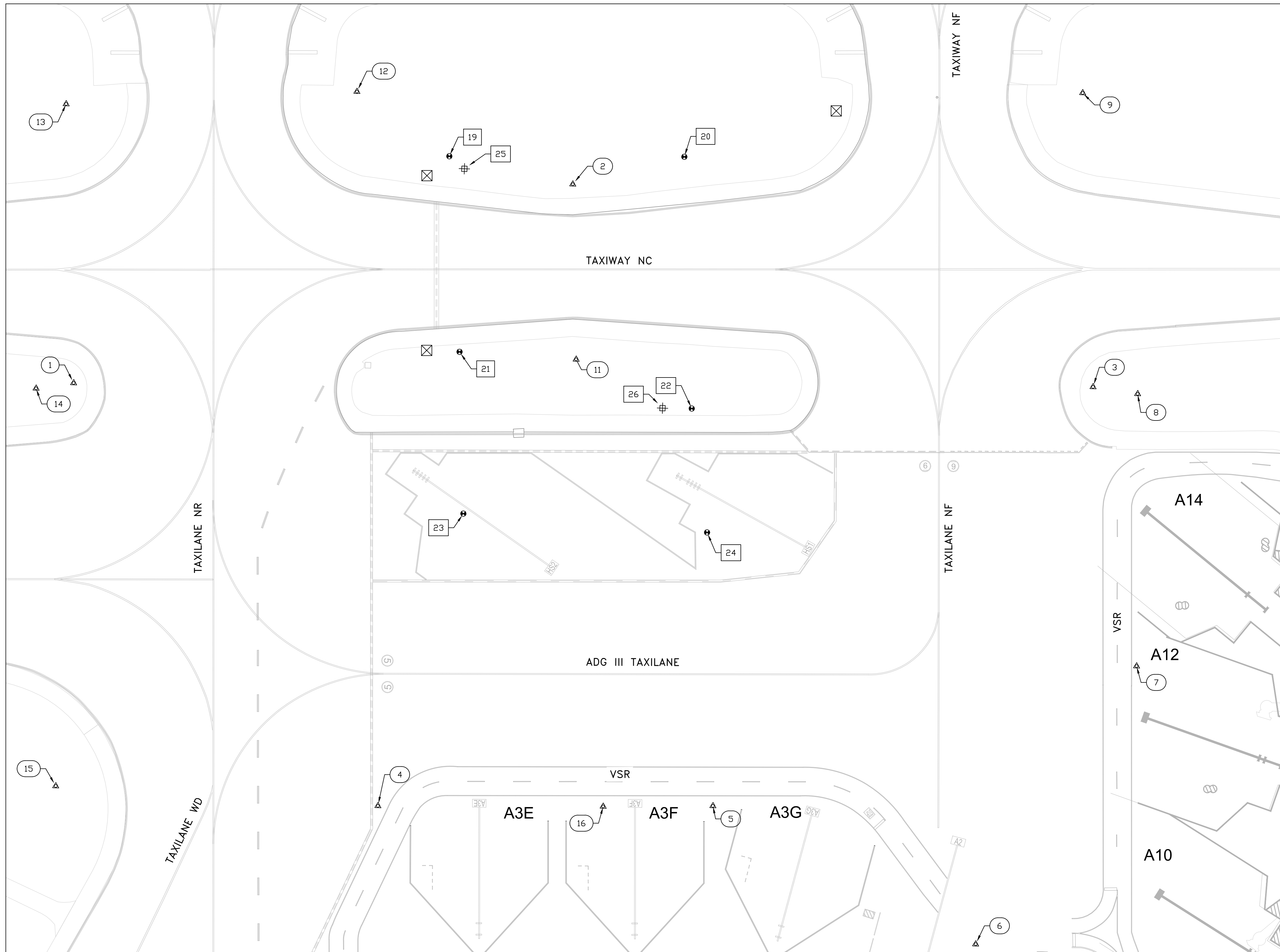


LEGEND

- △ --- ## SURVEY CONTROL POINT
- --- ## BORING/CORE POINT
- ⊕ --- ## SAMPLE PIT POINT

NOTES:

- HORIZONTAL DATUM: TEXAS COORDINATE SYSTEM, NORTH AMERICAN DATUM OF 1983 (NAD 83), SOUTH CENTRAL ZONE, EPOCH 2010.00 (2011 ADJUSTMENT), US SURVEY FEET.
- VERTICAL DATUM: NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88), GEOID 18.
- ALL COORDINATES SHOWN ARE SURFACE VALUES, IAH PROJECT SCALE FACTOR = 0.999923616683 (SURFACE MULTIPLIED BY SF=GRID).
- SURVEY DATE: APRIL 4, 2022 – MAY 27, 2022

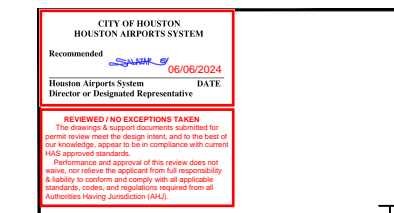


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HOUSTON AIRPORT SYSTEM
 GEORGE BUSH INTERCONTINENTAL AIRPORT HOUSTON, TEXAS

IEA
 13501 Katy Freeway
 Suite 3425
 Houston, Texas 77079
 (832) 494-3800
 TPPE Firm Registration No. F-10161

REVISIONS		
NO.	DESCRIPTION	DATE



TERMINAL A NORTH RON PARKING
 AT GEORGE BUSH INTERCONTINENTAL AIRPORT

SURVEY CONTROL & BORING LAYOUT

T.I.P. No. 23-311-IAH B.S.C. No. 2023-356-IAH

ISSUED FOR PERMIT	
PROJECT MGR:	DA
DESIGNER:	ZJ
DRAWN BY:	ZJ
CHECKED BY:	BS
SCALE:	1" = 50'
DATE:	06/03/2024

DEPARTMENT OF AVIATION
 APPROVED BY: DATE:

HOUSTON AIRPORT SYSTEMS
 AUTHORIZED REPRESENTATIVE

PROJECT NO.	PN 973
C.I.P. NO.	A-000713
H.A.S. NO.	
SHEET NO.	

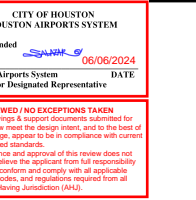


HOUSTON AIRPORT SYSTEM
 GEORGE BUSH INTERCONTINENTAL
 AIRPORT HOUSTON, TEXAS



13501 Katy Freeway
 Suite 3425
 Houston, Texas 77079
 (832) 494-3800
 TPBE Firm Registration No.
 F-10161

REVISIONS
 NO. DESCRIPTION DATE BY

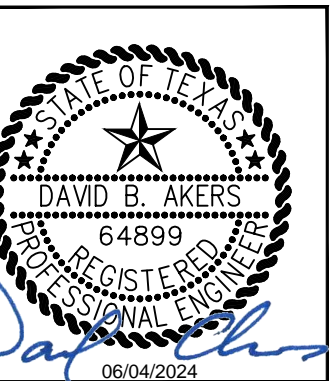


TERMINAL A NORTH RON PARKING
 AT GEORGE BUSH INTERCONTINENTAL AIRPORT

BORING LOGS

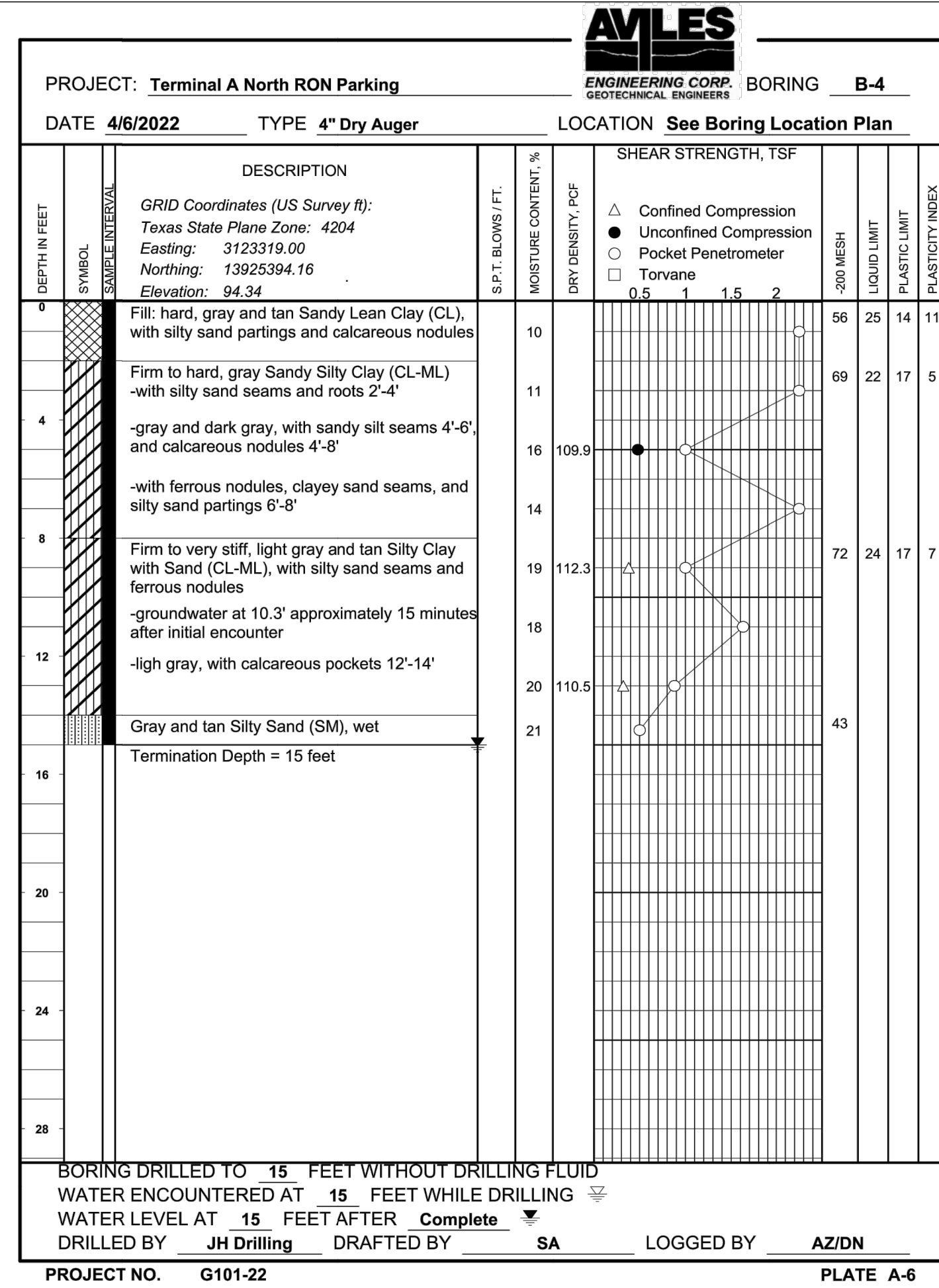
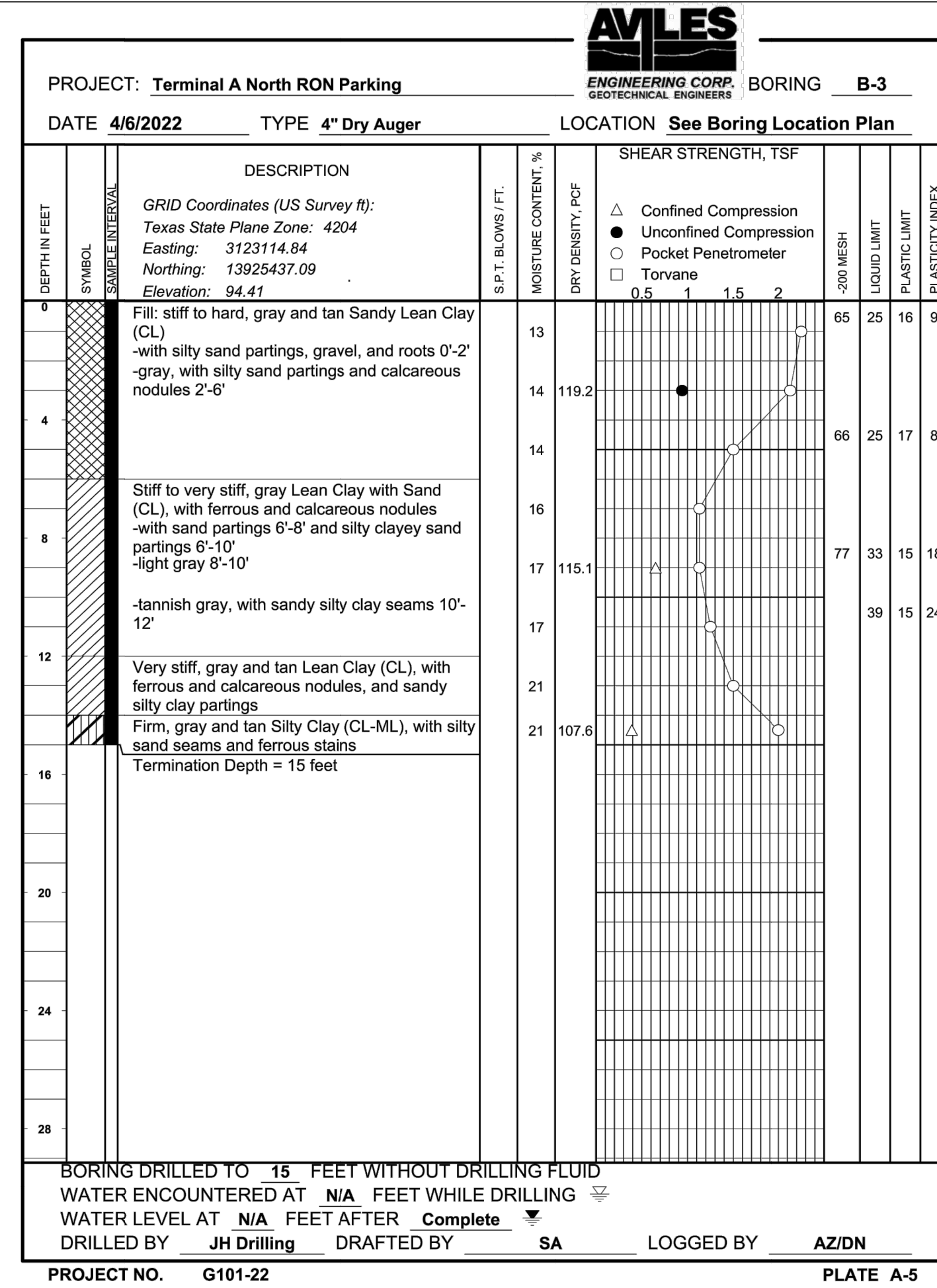
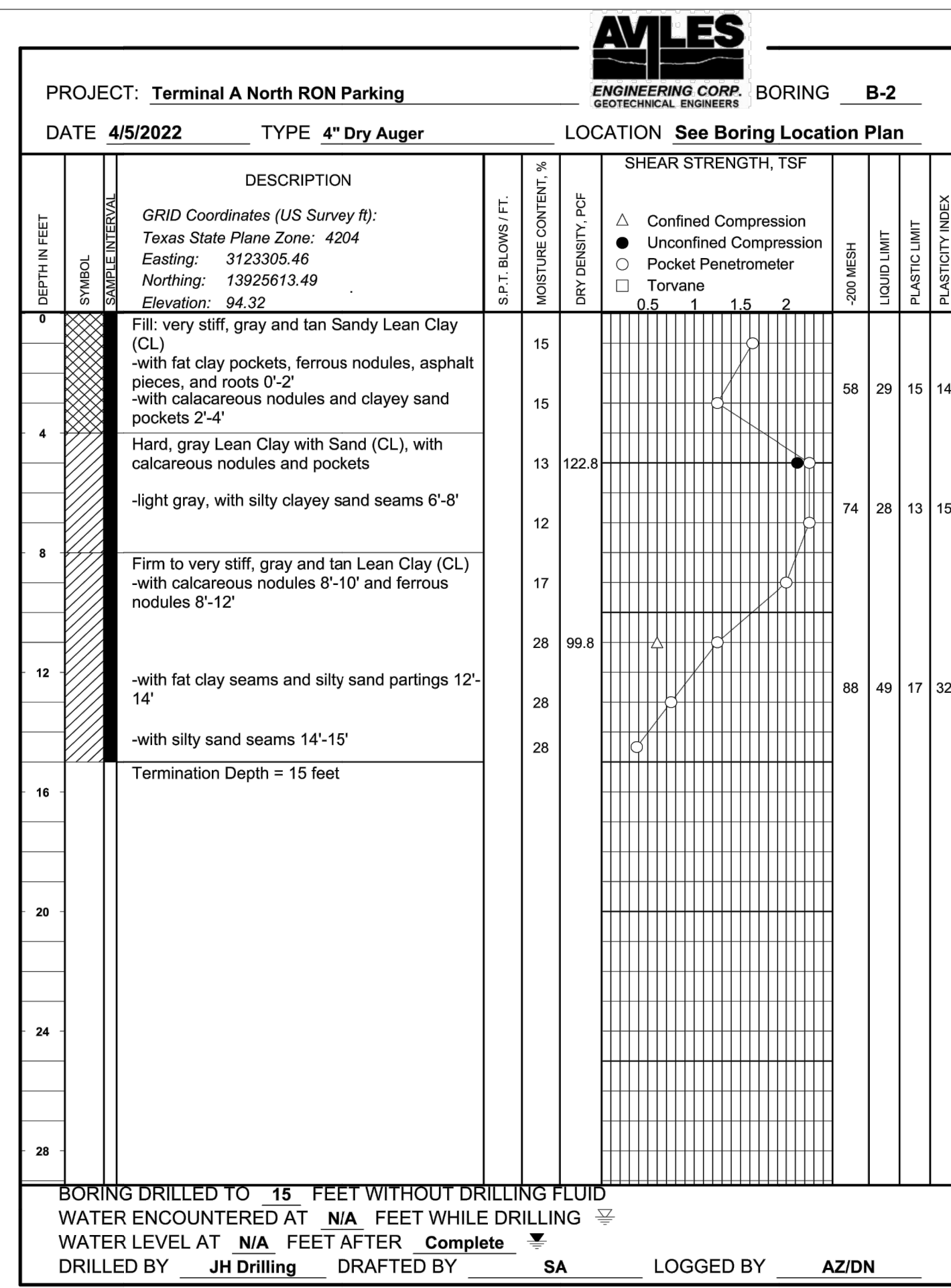
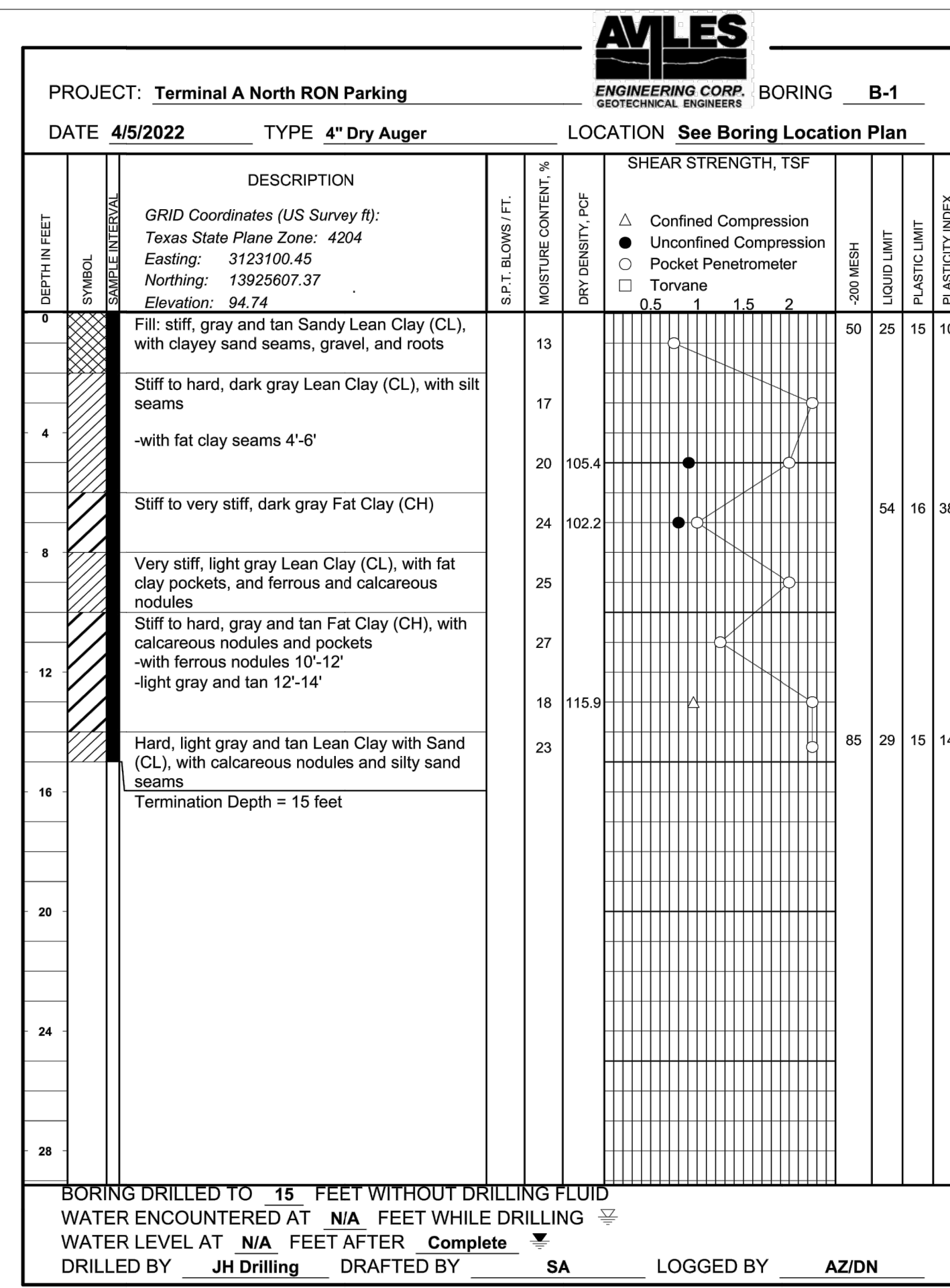
T.I.P. No. 23-311-IAH B.S.G. No. 2023-356-IAH

ISSUED FOR PERMIT
 PROJECT MGR: DA
 DESIGNER: DA
 DRAWN BY: ZJ
 CHECKED BY: BS
 SCALE: NTS
 DATE: 06/03/2024



DEPARTMENT OF AVIATION
 APPROVED BY: DATE:
 HOUSTON AIRPORT SYSTEMS
 AUTHORIZED REPRESENTATIVE

PROJECT NO. PN 973
 C.I.P. NO. A-000713
 H.A.S. NO.
 SHEET NO.



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HOUSTON AIRPORT SYSTEM

GEORGE BUSH INTERCONTINENTAL AIRPORT HOUSTON, TEXAS



13501 Katy Freeway Suite 3425 Houston, Texas 77079 (832) 494-3800 TBPE Firm Registration No. F-10161

REVISIONS

NO. DESCRIPTION DATE BY



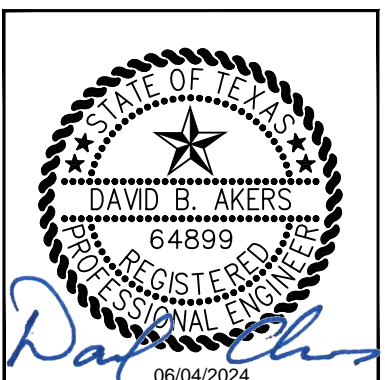
TERMINAL A NORTH RON PARKING AT GEORGE BUSH INTERCONTINENTAL AIRPORT

SAFETY AND SECURITY DETAILS

T.I.P. No. 23-311-IAH B.S.G. No. 2023-356-IAH

ISSUED FOR PERMIT

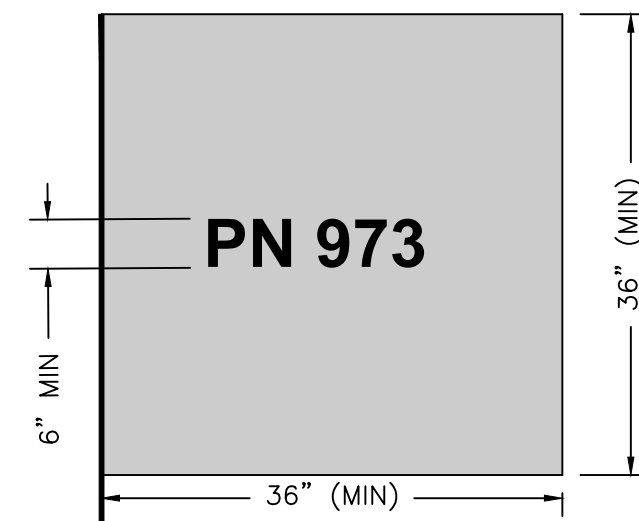
PROJECT MGR: DA DESIGNER: ZJ DRAWN BY: ZJ CHECKED BY: BS SCALE: NTS DATE: 06/03/2024



DEPARTMENT OF AVIATION APPROVED BY: DATE: HOUSTON AIRPORT SYSTEMS AUTHORIZED REPRESENTATIVE

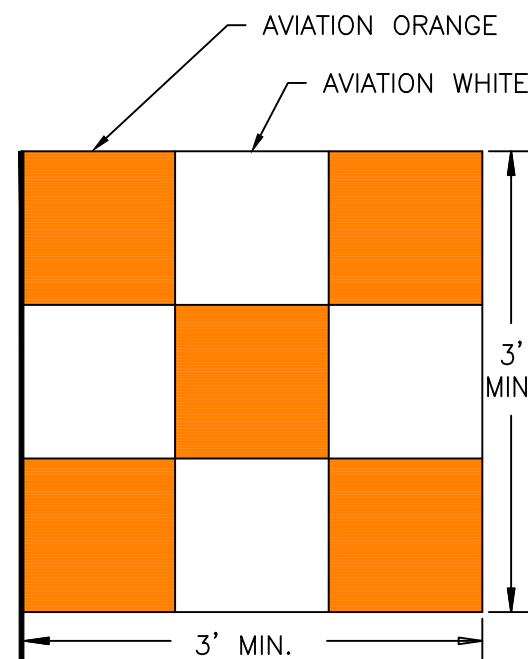
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GI.07



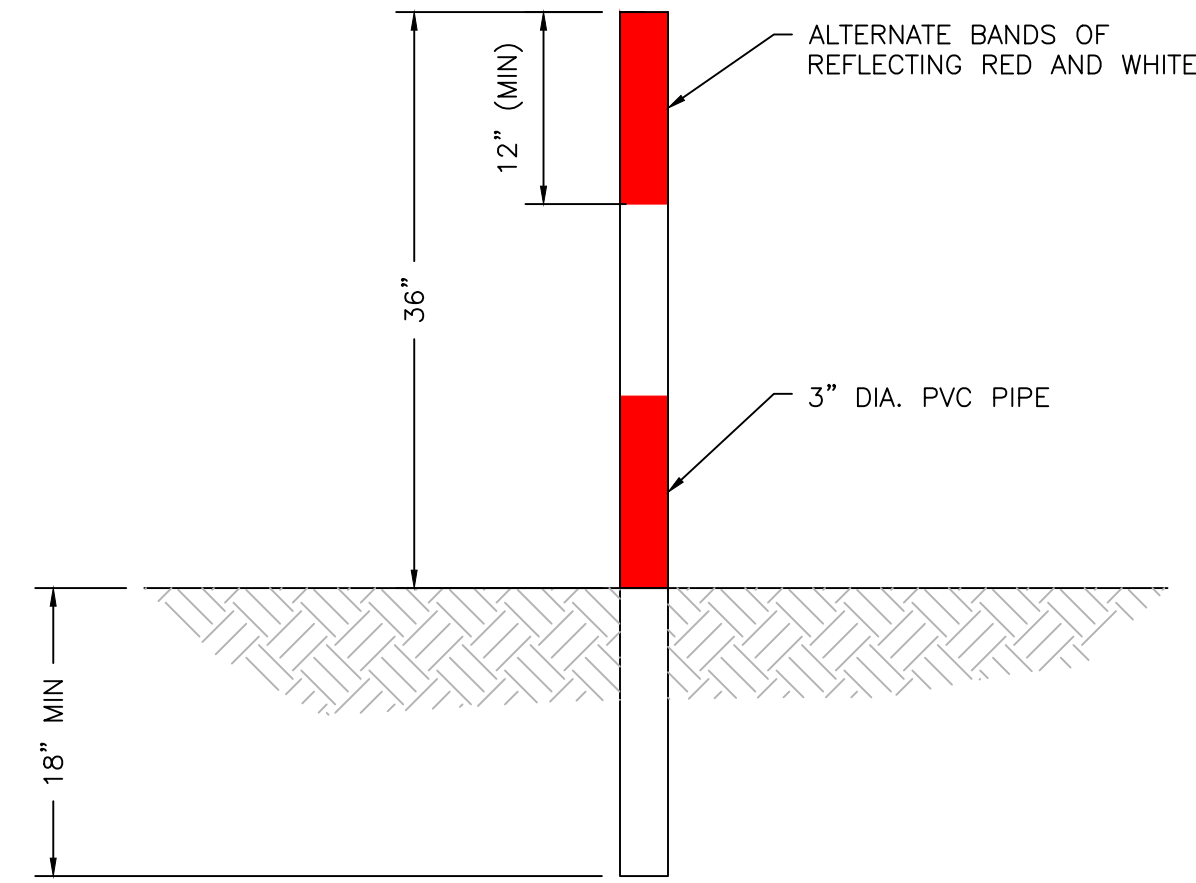
NOTE: FLAGMEN SHALL BE EQUIPPED WITH HAUL ROUTE FLAGS WITH THE PROJECT NUMBER (PN 973) CLEARLY IDENTIFIED ON THE FLAG. THE COLOR OF THE FLAG SHALL MATCH THAT OF THE PROJECT SPECIFIC COLOR ASSIGNED TO THE PROJECT AT THE PRE-CONSTRUCTION MEETING. HAUL ROUTES SHALL BE MARKED AT THE BEGINNING OF EACH PHASE AND MAINTAINED THROUGHOUT.

1 HAUL ROUTE FLAG SCALE:NTS GI.07



NOTE: SAFETY FLAG SHALL BE PROMINENTLY DISPLAYED ON CONSTRUCTION EQUIPMENT UNLESS MARKED WITH A FLASHING BEACON.

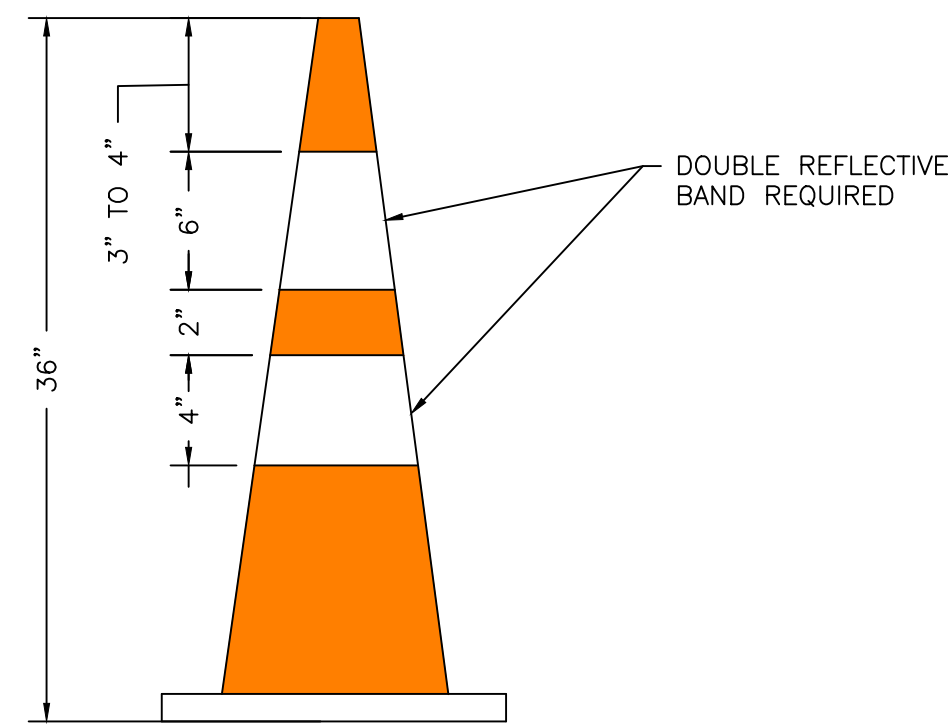
2 CONSTRUCTION SAFETY FLAG SCALE:NTS GI.07



NOTES:

- 1. INFIELD MARKER POLE BARRICADES TO BE PLACED WHERE NOTED IN THE PLANS OR AS REQUIRED BY THE OWNER, SPACING TO BE 25 FEET MAXIMUM (CENTER TO CENTER).
2. INFIELD BARRICADES ARE ADEQUATELY SECURED AGAINST MOVEMENT DUE TO WIND AND / OR AIRCRAFT ENGINE THRUST.
3. THE CONTRACTOR SHALL CONTINUOUSLY MAINTAIN THE PLACEMENT, LOCATION AND OPERATION OF ALL BARRICADES FOR THE DURATION OF THE PROJECT. BARRICADES SHALL BE INSPECTED DAILY BY THE CONTRACTOR AND THE OWNER AND ANY DEFICIENCIES FOUND SHALL BE CORRECTED IMMEDIATELY.
4. ALL COSTS ASSOCIATED WITH THE INSTALLATION, MAINTENANCE, AND REMOVAL OF BARRICADES INCLUDING LABOR, EQUIPMENT, MATERIALS, AND INCIDENTALS SHALL BE SUBSIDIARY TO SECTION 01 59 01, MISCELLANEOUS TEMPORARY CONSTRUCTION ITEMS.

3 MARKER POLE BARRICADE SCALE:NTS GI.07

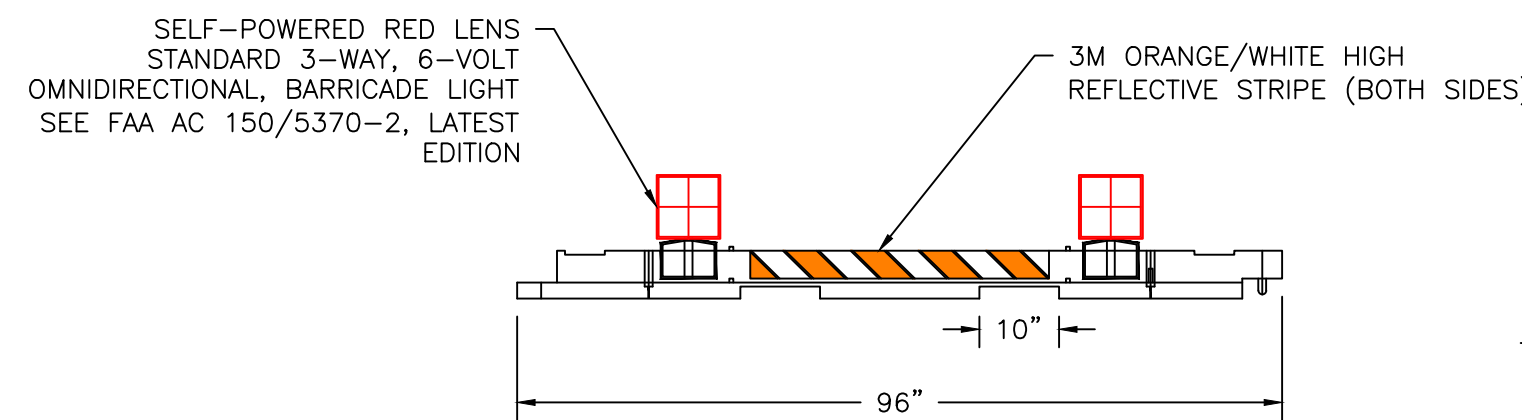


TRAFFIC CONE

NOTES:

- 1. TRAFFIC CONES, AND ALL RELATED ITEMS SHALL COMPLY WITH THE REQUIREMENTS OF THE CURRENT VERSION OF THE "TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (TMUTCD) AND THE "COMPLIANT WORK ZONE TRAFFIC CONTROL DEVICES LIST" (CWZTCD).
2. DRUMS, CONES, BASES, AND RELATED MATERIALS SHALL EXHIBIT GOOD WORKMANSHIP AND SHALL BE FREE FROM OBJECTIONABLE MARKS OR DEFECTS THAT WOULD ADVERSELY AFFECT THEIR APPEARANCE OR SERVICEABILITY.
3. THE CONTRACTOR SHALL CONTINUOUSLY MAINTAIN THE PLACEMENT, LOCATION AND OPERATION OF ALL TRAFFIC CONES FOR THE DURATION OF THE PROJECT. BARRICADES SHALL BE INSPECTED DAILY BY THE CONTRACTOR AND THE OWNER AND ANY DEFICIENCIES FOUND SHALL BE CORRECTED IMMEDIATELY.
4. WARNING LIGHTS OR DIRECTIONAL CHEVRONS MAY BE INSTALLED ON A DRUM.
5. WARNING LIGHTS SHALL NOT BE INSTALLED ON A TRAFFIC CONE OR ON A DRUM THAT HAS A SIGN, CHEVRON, OR VERTICAL PANEL.
6. TRAFFIC CONES MAY BE USED FOR APPROVED TEMPORARY (LESS THAN 12 HOURS), AIRFIELD PAVEMENT CLOSURES. A MINIMUM OF FIVE TRAFFIC CONES OR ONE FOR EVERY 20 FEET OF PAVEMENT TO BE CLOSED (WHICHEVER IS GREATER) IS REQUIRED TO PROPERLY BARRICADE A SECTION OF PAVEMENT.
7. ALL COSTS ASSOCIATED WITH THE INSTALLATION, MAINTENANCE, AND REMOVAL OF TRAFFIC CONES INCLUDING LABOR, EQUIPMENT, MATERIALS, AND INCIDENTALS SHALL BE SUBSIDIARY TO SECTION 01 59 01, MISCELLANEOUS TEMPORARY CONSTRUCTION ITEMS.

4 CONSTRUCTION TRAFFIC CONE SCALE:NTS GI.07



FRONT VIEW

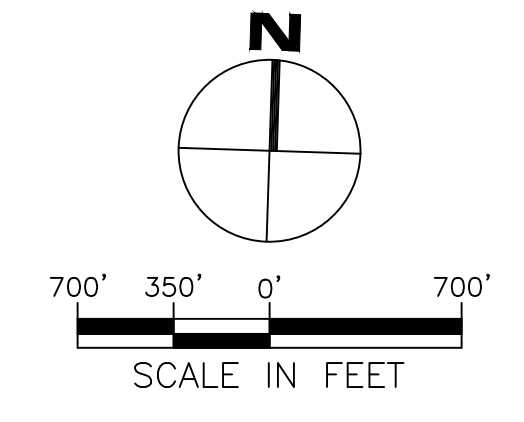
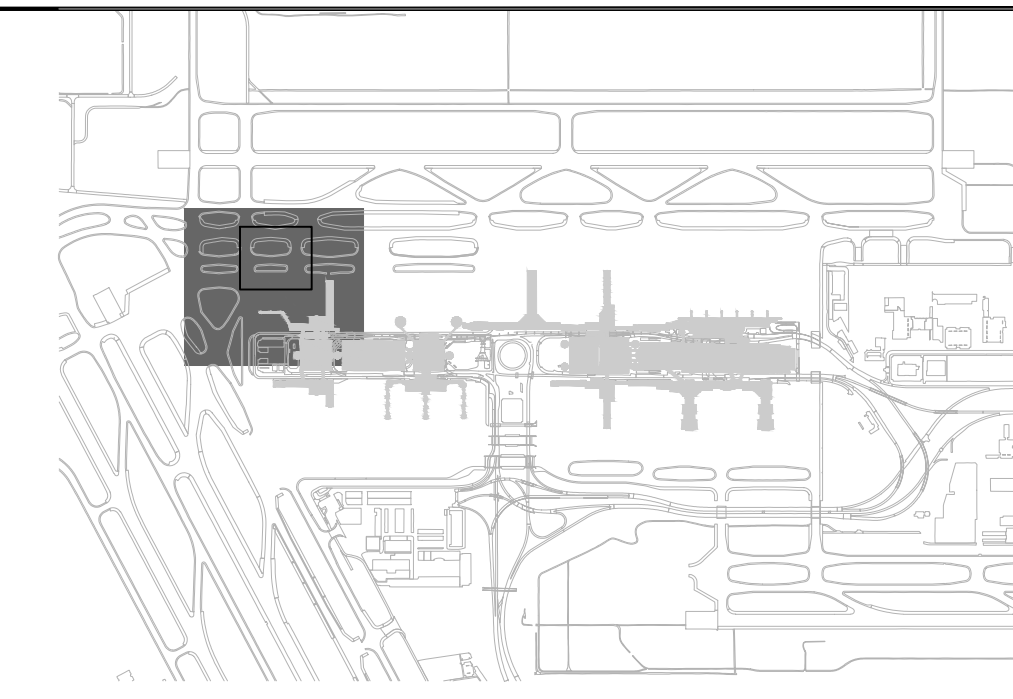
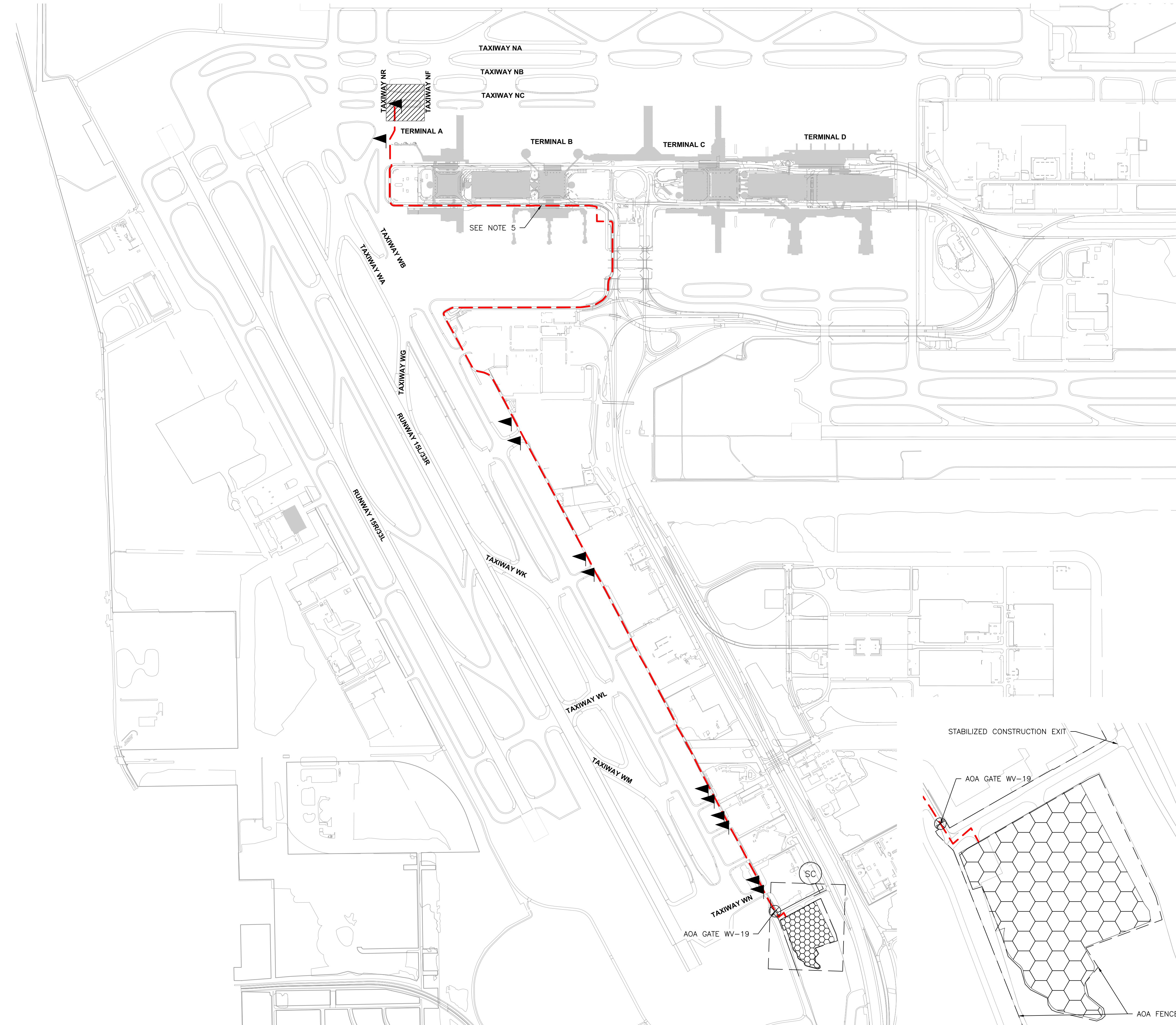
SIDE VIEW

NOTES:

- 1. BARRICADES SEPARATING THE CONSTRUCTION AREA FROM THE EXISTING PAVEMENT SHALL BE CONTINUOUSLY CONNECTED END-TO-END WITH NO SPACING BETWEEN THEM. A 20 FT OPENING SHALL BE PROVIDED FOR IAH AIRPORT OPERATIONS AND ARFF ACCESS. CONTRACTOR SHALL COORDINATE LOCATION OF OPENING WITH THE HAS PROJECT MANAGER, IAH AIRPORT OPERATIONS, AND ARFF PRIOR TO EACH INDIVIDUAL PHASE OF WORK.
2. ALL LINES OF BARRICADES SHALL BE TERMINATED WITH BARRICADES ANGLED AT 45 DEGREES AWAY FROM AIRFIELD PAVEMENT.
3. BARRICADES SHALL NOT BE PLACED FURTHER THAN 3 FT ONTO PAVEMENT FROM EXCAVATION EXCEPT AS SHOWN ON THE PLANS.
4. BARRICADES STRIPING SHALL BE ORANGE AND WHITE CONFORMING TO FAA AC 150/5370-2, LATEST EDITION, OPERATIONAL SAFETY ON AIRPORTS DURING CONSTRUCTION.
5. THE REQUIRED LIGHTS MUST BE RED AND FLASHING. INTENSITIES AND LUMINANCE MUST BE AT LEAST FIVE CANDELAS EFFECTIVE INTENSITY AND FLASH AT A RATE FROM 55 TO 160 FLASHES PER MINUTE.
6. LIGHTS MUST BE OPERATIONAL BETWEEN SUNSET AND SUNRISE AND DURING PERIODS OF LOW VISIBILITY WHENEVER THE AIRPORT IS OPEN FOR OPERATIONS.
7. ALL BARRICADES SHALL BE FILLED WITH WATER UNLESS OTHERWISE DIRECTED BY IAH AIRPORT OPERATIONS.
8. CONTRACTOR SHALL PERFORM DAILY INSPECTIONS BEFORE THE START OF EACH WORK SHIFT AND AT THE COMPLETION OF EACH WORK PERIOD. CONTRACTOR SHALL PROVIDE A WRITTEN CHECKLIST DOCUMENTING THE INSPECTION, DEFICIENCIES, AND CONFIRMATION ALL DEFICIENCIES HAVE BEEN ADDRESSED.
9. BARRICADES SHALL BE PLACED TO ACHIEVE A 10 FT MAXIMUM SPACING BETWEEN LIGHTS.
10. ALL COSTS ASSOCIATED WITH THE INSTALLATION, MAINTENANCE, AND REMOVAL OF BARRICADES INCLUDING LABOR, EQUIPMENT, MATERIALS, AND INCIDENTALS SHALL BE SUBSIDIARY TO SECTION 01 59 01, MISCELLANEOUS TEMPORARY CONSTRUCTION ITEMS.

5 LOW PROFILE BARRICADE SCALE:NTS GI.07

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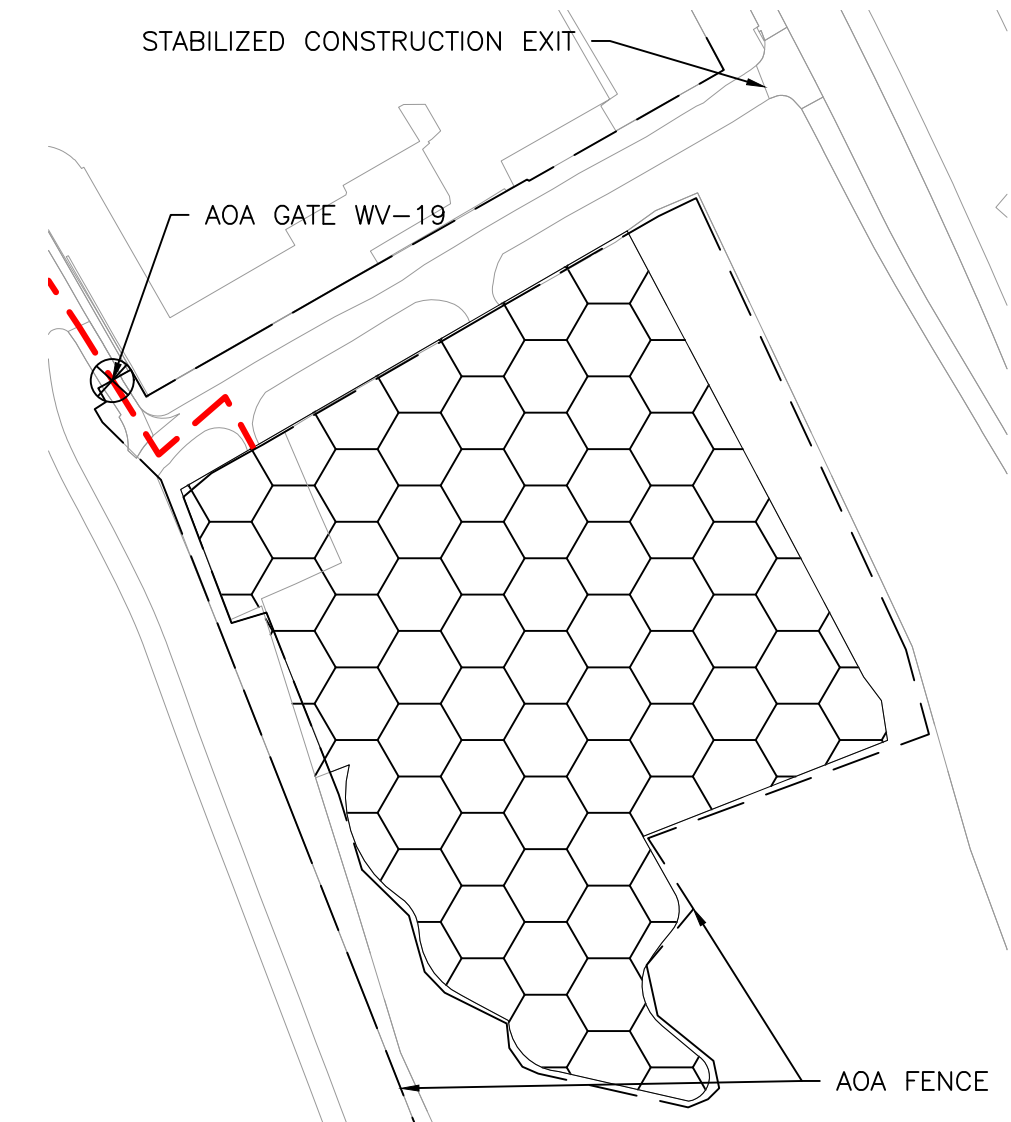


LEGEND

- CONTRACTOR STAGING AREA/EMPLOYEE PARKING/BATCH PLANT SITE
- WORK AREA
- HAUL ROUTE
- FLAGGER
- CONTRACTOR ACCESS/GATE GUARD
- STABILIZED CONSTRUCTION EXIT

NOTES:

1. FLAGGERS TO BE PLACED AT EVERY ACTIVE TAXIWAY/TAXILANE INTERSECTION ALONG THE HAUL ROUTE.
2. CONTRACTOR TO COORDINATE ESCORT LOCATION AND PERSONNEL WITH THE OWNER.
3. CONTRACTOR TO MAKE SURE HAUL ROUTE IS RETURNED IN EQUAL OR BETTER CONDITION UPON COMPLETION OF THE PROJECT.
4. DURING IRREGULAR OPERATIONS AT THE AIRPORT AND WITH THE PEOPLE MOVER SYSTEM, THE CONTRACTOR MAY BE RESTRICTED FROM USING THE HAUL ROUTE NEAR TERMINAL A. AS SHOWN ON THE FOLLOWING SHEETS AS "EMERGENCY BUS STOP".
5. VSR LOCATED BEHIND TERMINAL B SOUTH HAS VERTICAL CLEARANCE LIMITED TO 13FT. OVERSIZED LOADS WILL REQUIRE HAS AIRSIDE OPS COORDINATION.



IEA
 13501 Katy Freeway
 Suite 3425
 Houston, Texas 77079
 (832) 494-3800
 TBPE Firm Registration No. F-10161

REVISIONS			
NO.	DESCRIPTION	DATE	BY

LETTER HEAD
 MAXIMUM LETTER HEAD SIZE
 11" x 17" (Landscape)
 11" x 8.5" (Portrait)
 ALL LETTERS AND NUMBERS SHALL BE IN BLACK
 ALL LETTERS AND NUMBERS SHALL BE IN A CLEAR, LEGIBLE FONT
 ALL LETTERS AND NUMBERS SHALL BE IN A CLEAR, LEGIBLE FONT
 ALL LETTERS AND NUMBERS SHALL BE IN A CLEAR, LEGIBLE FONT

TERMINAL A NORTH IRON PARKING
 AT GEORGE BUSH INTERCONTINENTAL AIRPORT

CONTRACTOR STAGING AREA AND HAUL ROUTE

T.I.P. No. 23-311-1A1 B.S.G. No. 2023-356-1A1

ISSUED FOR PERMIT	
PROJECT MGR:	DA
DESIGNER:	JK
DRAWN BY:	JK
CHECKED BY:	BS
SCALE:	1" = 700'
DATE:	06/03/2024

STATE OF TEXAS
 REGISTERED PROFESSIONAL ENGINEER
 DAVID B. AKERS
 64899
 06/04/2024

DEPARTMENT OF AVIATION	
APPROVED BY:	DATE:
HOUSTON AIRPORT SYSTEMS AUTHORIZED REPRESENTATIVE	

PROJECT NO.	PN 973
C.I.P. NO.	A-000713
H.A.S. NO.	
SHEET NO.	

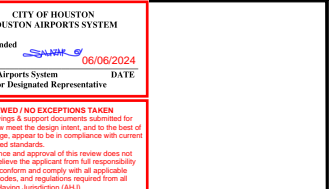


HOUSTON AIRPORT SYSTEM
 GEORGE BUSH INTERCONTINENTAL
 AIRPORT HOUSTON, TEXAS



13501 Katy Freeway
 Suite 3425
 Houston, Texas 77079
 (832) 494-3800
 TBPE Firm Registration No.
 F-10161

REVISIONS		
NO.	DESCRIPTION	DATE

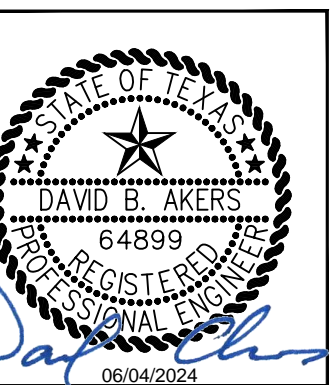


TERMINAL A NORTH RON PARKING
 AT GEORGE BUSH INTERCONTINENTAL AIRPORT

OVERALL PHASING PLAN AND NOTES

T.I.P. No. 23-311-1AH
 B.S.C. No. 2023-356-1AH

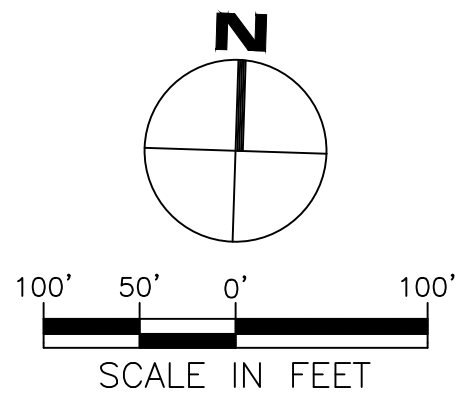
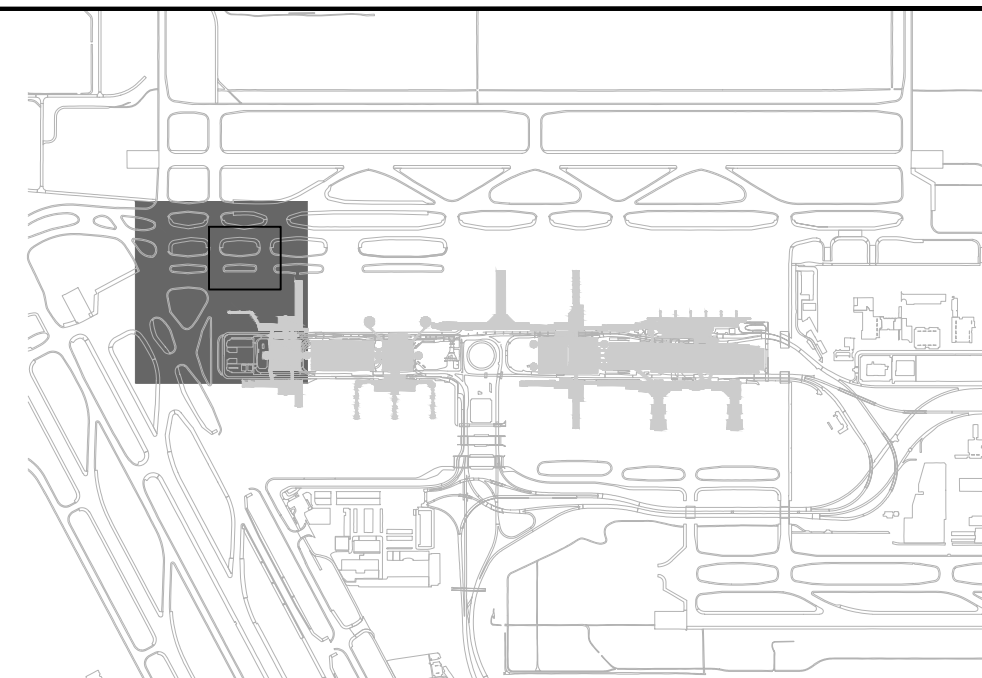
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PROJECT MGR:	DA
DESIGNER:	ZJ
DRAWN BY:	ZJ
CHECKED BY:	BS
SCALE:	1" = 200'
DATE:	06/03/2024



DEPARTMENT OF AVIATION	
APPROVED BY:	DATE:

PROJECT NO.	PN 973
C.I.P. NO.	A-000713
H.A.S. NO.	
SHEET NO.	

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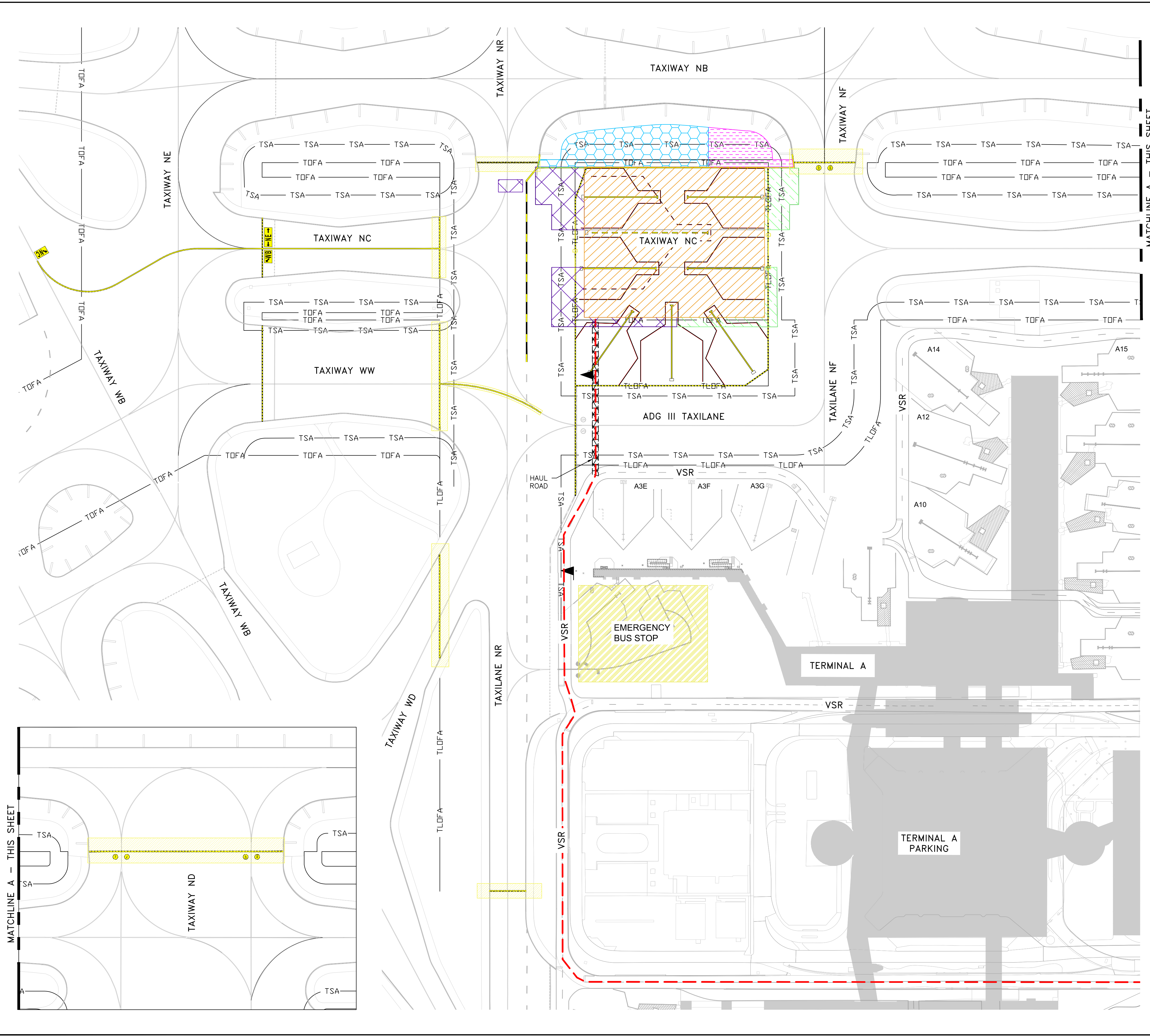


LEGEND

- PHASE 0
- PHASE 1A
- PHASE 1B
- PHASE 1C
- PHASE 1D
- PHASE 1E
- TOFA — TAXIWAY OBJECT FREE AREA
- TLOFA — TAXILANE OBJECT FREE AREA
- TSA — TAXIWAY SAFETY AREA
- HAUL ROUTE
- FLAGGER

- NOTES:
- PHASES 1B OR 1C MAY BE COMPLETED AT THE SAME TIME AS PHASE 1A. PHASES 1B AND 1C CAN NOT BE COMPLETED AT THE SAME TIME IN ORDER TO MINIMIZE TAXIWAY CLOSURES.
 - PHASE 2 NOT SHOWN FOR CLARITY.

- GENERAL PHASING NOTES:
- NO WORK SHALL BE PERFORMED UNTIL ALL BARRICADES AND CONSTRUCTION FENCES HAVE BEEN ERECTED AND ACCEPTED BY A HAS OAR.
 - NO WORK SHALL BE PERFORMED UNTIL ALL MODIFICATIONS TO THE AIRFIELD MARKINGS, LIGHTING, AND SIGNAGE HAVE BEEN PERFORMED AND ACCEPTED BY A HAS OAR.
 - NO EARTH DISTURBANCE SHALL OCCUR PRIOR TO THE INSTALLATION AND ACCEPTANCE OF THE EROSION AND SEDIMENTATION CONTROLS.
 - FLAGGERS MUST STAY OUTSIDE TOFA'S OF ACTIVE TAXIWAYS.
 - NO WORK MAY BE PERFORMED WITHIN THE TOFA OF AN ACTIVE TAXIWAY.
 - CONTRACTOR SHALL PLACE BARRICADES AT THE TOFA OF THE ACTIVE TAXIWAY OR AS SHOWN IN THE PLANS.
 - CONTRACTOR TO MAINTAIN ALL GRASS AREAS WITHIN THE PROJECT LIMIT DURING CONSTRUCTION. CONTRACTOR TO COORDINATE WITH HAS OAR BEFORE THE START OF THE PROJECT TO DETERMINE ALL GRASS AREAS TO BE MAINTAINED.

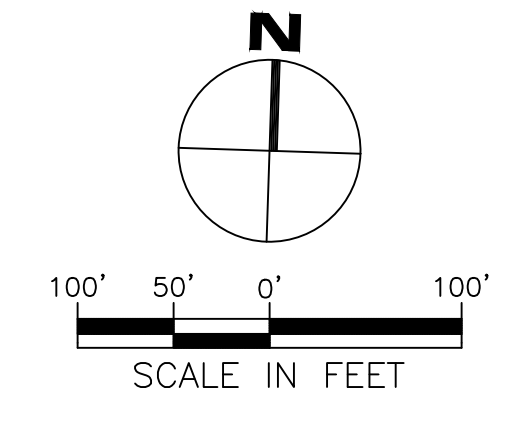
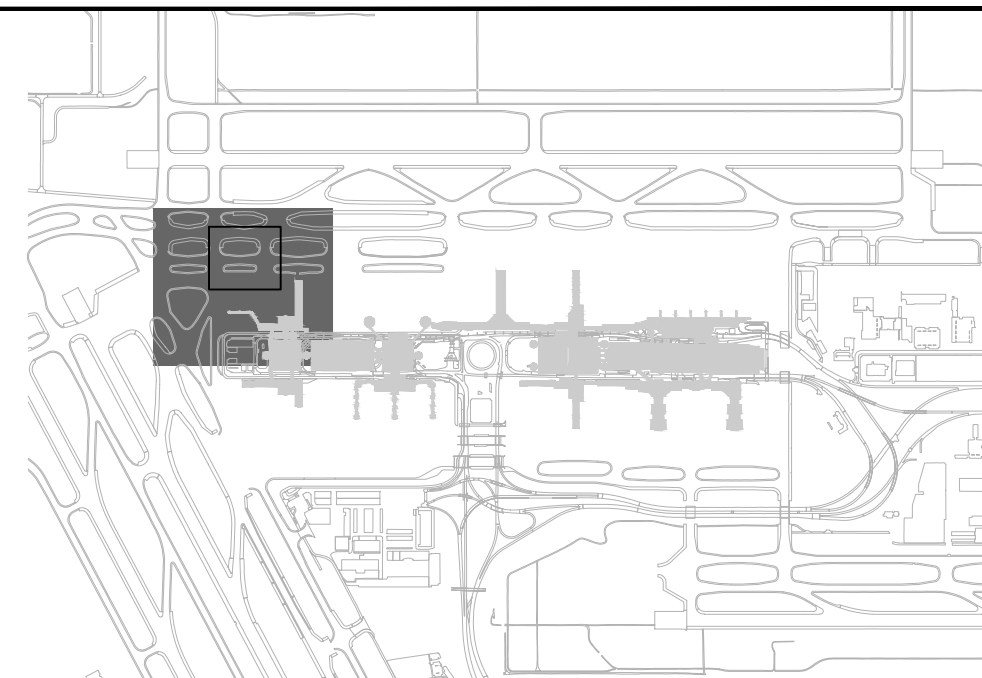
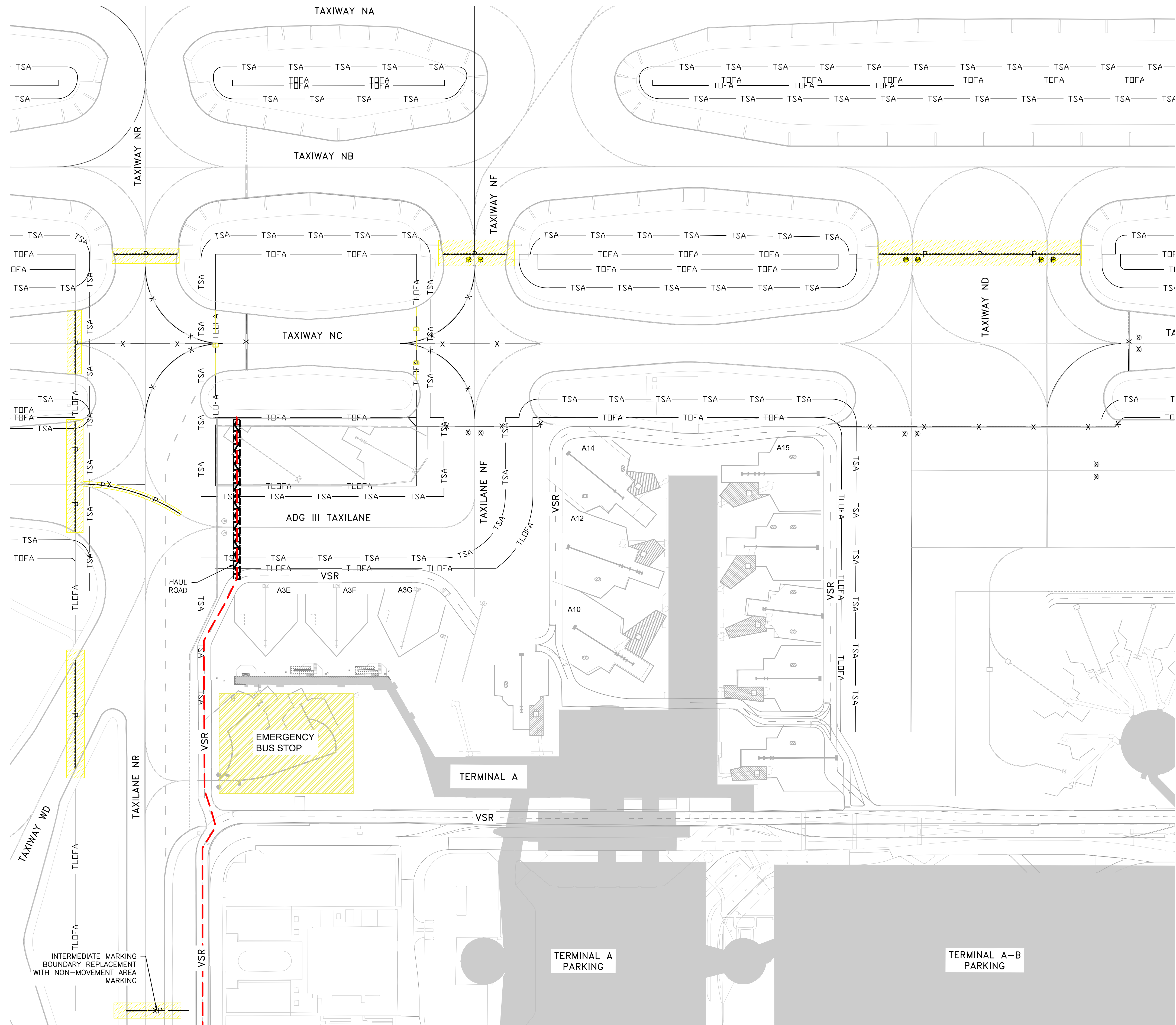


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MATCHLINE A - THIS SHEET

MATCHLINE A - THIS SHEET

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LEGEND

- PHASE 0
- TOFA — TAXIWAY OBJECT FREE AREA
- TLOFA — TAXILANE OBJECT FREE AREA
- TSA — TAXIWAY SAFETY AREA
- X - X - MARKING REMOVAL
- P - P - PERMANENT MARKING INSTALLED THIS PHASE
- XP - MARKING REMOVAL AND PERMANENT INSTALLED THIS PHASE
- - - HAUL ROUTE
- ▲ FLAGGER

NOTES:

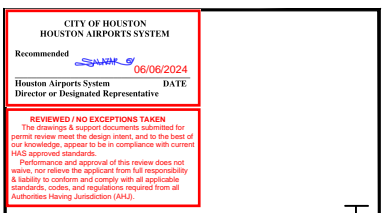
1. WORK OCCURRING IN PHASE 0 SHALL OCCUR DURING NIGHTTIME HOURS, OR ON A PULLBACK BASIS, SO AS NOT TO CONFLICT WITH THE AIRPORT OPERATIONS.
2. CONTRACTOR TO COORDINATE TAXIWAY CLOSURES, BARRICADE PLACEMENT AND/OR TEMPORARY MARKING REMOVALS WITH HAS AIRSIDE OPERATIONS AND HAS OAR BEFORE CONSTRUCTION BEGINS.
3. WORK ACTIVITIES DURING PHASE 0 INCLUDE:
 - MAINTENANCE OF TRAFFIC
 - PAVEMENT MARKING REMOVAL
 - PAVEMENT MARKING INSTALLATION

HOUSTON AIRPORT SYSTEM
 GEORGE BUSH INTERCONTINENTAL AIRPORT
 HOUSTON, TEXAS

IEA
 13501 Katy Freeway
 Suite 3425
 Houston, Texas 77079
 (832) 494-3800
 TBPE Firm Registration No. F-10161

REVISIONS

NO.	DESCRIPTION	DATE	BY



ISSUED FOR PERMIT

PROJECT MGR: _____ DA
 DESIGNER: _____ ZJ
 DRAWN BY: _____ ZJ
 CHECKED BY: _____ BS
 SCALE: 1" = 100'
 DATE: 06/03/2024

TERMINAL A NORTH RON PARKING
 AT GEORGE BUSH INTERCONTINENTAL AIRPORT

PHASING PLAN - PHASE 0

T.I.P. No. 23-311-IAH B.S.G. No. 2023-356-IAH

DEPARTMENT OF AVIATION

APPROVED BY: _____ DATE: _____

HOUSTON AIRPORT SYSTEMS
 AUTHORIZED REPRESENTATIVE

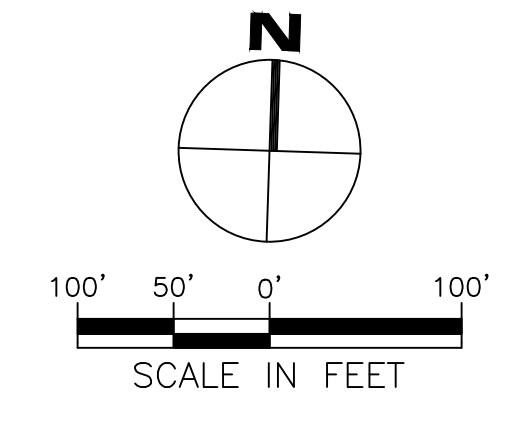
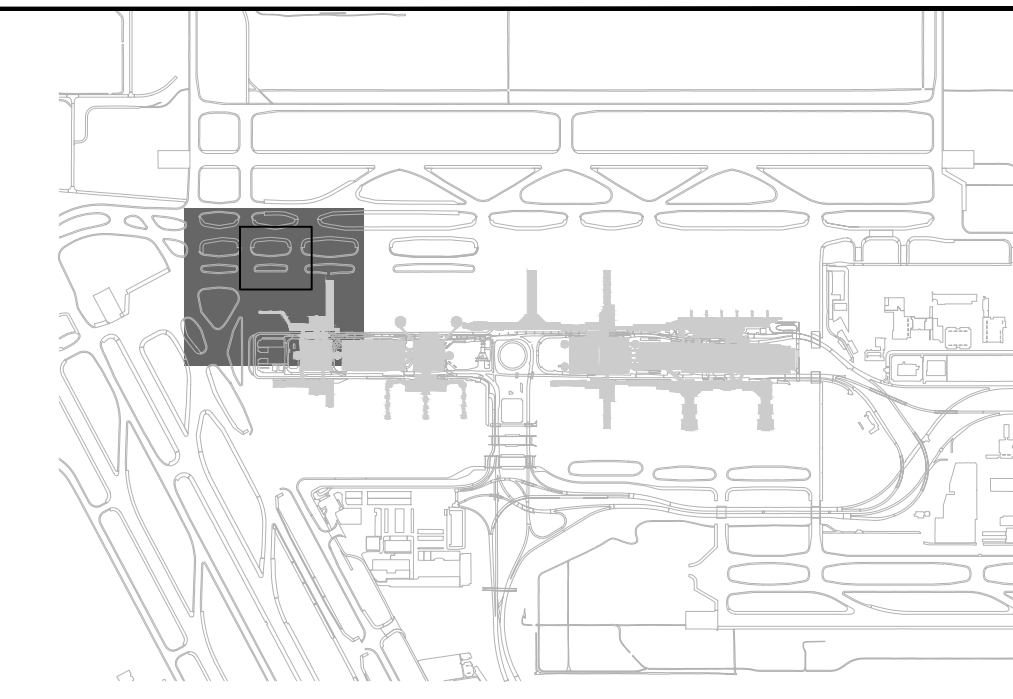
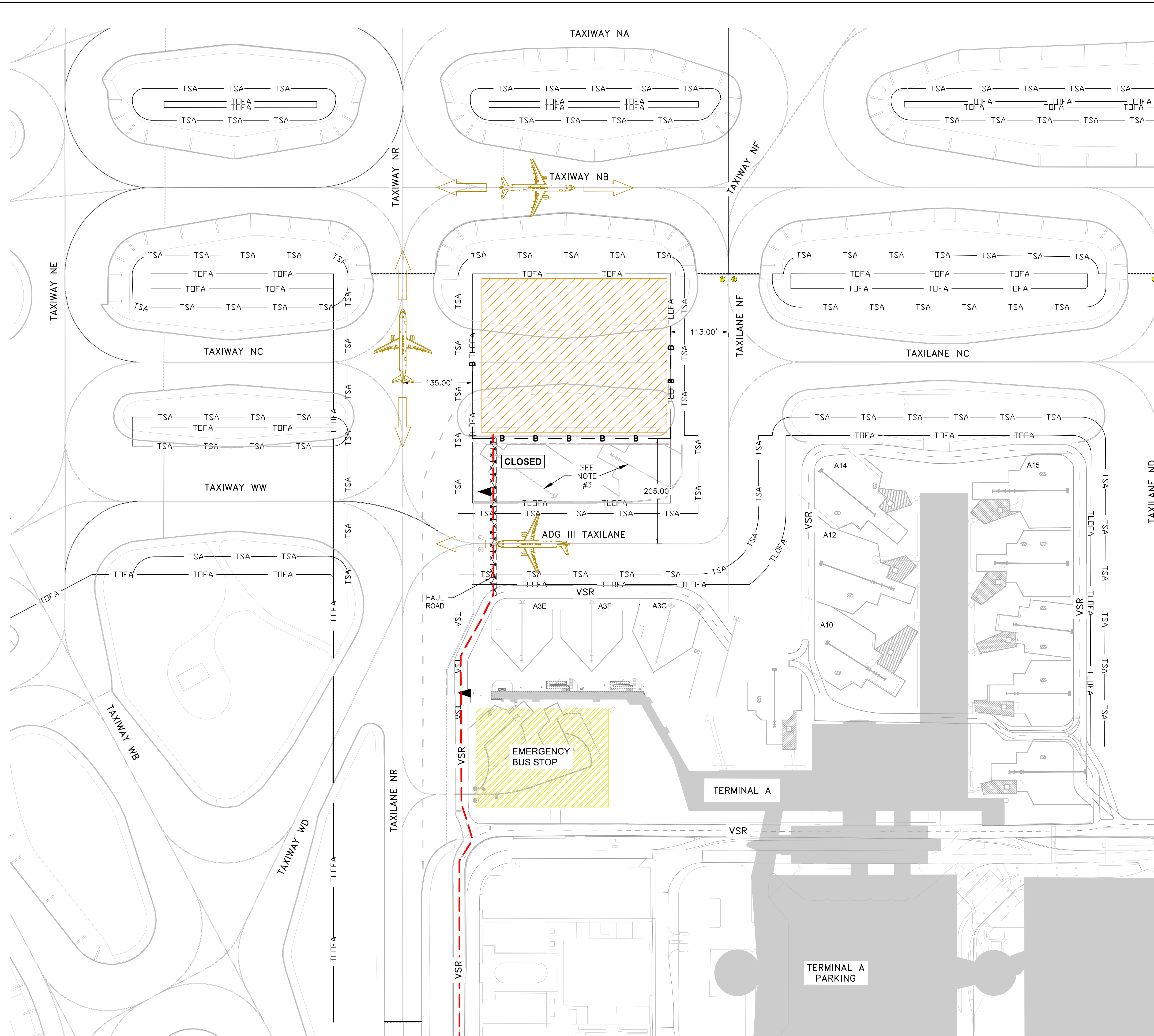
PROJECT NO. PN 973

C.I.P. NO. A-000713

H.A.S. NO. _____

SHEET NO. _____

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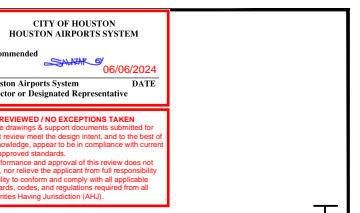
- PHASE 1A
- TOFA — TAXIWAY OBJECT FREE AREA
- TLOFA — TAXILANE OBJECT FREE AREA
- TSA — TAXIWAY SAFETY AREA
- B - B - LOW-PROFILE BARRICADE
- - - HAUL ROUTE
- ▲ FLAGGER

NOTES:

1. THE FOLLOWING PAVEMENTS WILL BE CLOSED DURING PHASE 1A:
 - TAXIWAY NC (BETWEEN TAXIWAY NR AND TAXIWAY NF)
 - TAXIWAY NC WILL HENCEFORTH BE PERMANENTLY CLOSED AT THIS LOCATION
2. WORK ACTIVITIES DURING PHASE 1A INCLUDE:
 - MAINTENANCE OF TRAFFIC
 - PAVEMENT AND MARKING REMOVAL
 - PLACEMENT OF STABILIZED SUBGRADE
 - PLACEMENT OF CRUSHED CONCRETE AGGREGATE BASE COURSE
 - PLACEMENT OF CEMENT TREATED BASE
 - PLACEMENT OF CEMENT CONCRETE PAVEMENT
 - REMOVAL OF ELECTRICAL INFRASTRUCTURE
 - INSTALLATION OF TAXIWAY EDGE LIGHTS
 - INSTALLATION OF STORM SEWER PIPES AND INLETS
 - STRUCTURE ADJUSTMENTS
 - EARTHWORK/GRADING
3. THE WEST EXISTING RON PARKING POSITION (HS2) IS TO BE CLOSED. EAST EXISTING RON PARKING POSITION (HS1) IS TO BE IN OPERATION.
 - DEBRIS BLOCKING FABRIC IS REQUIRED TO BE USED TO PROTECT AIRCRAFT IN ACTIVE RON POSITION FROM FOD.

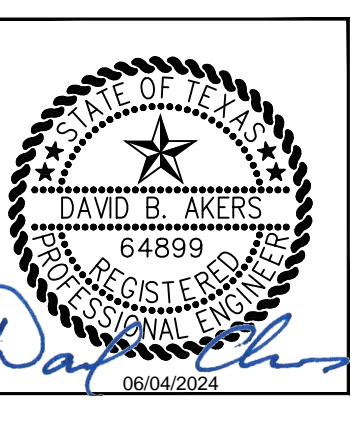
IEA
 13501 Katy Freeway
 Suite 3425
 Houston, Texas 77079
 (832) 494-3800
 TPPE Firm Registration No. F-10161

REVISIONS		
NO.	DESCRIPTION	DATE



TERMINAL A NORTH RON PARKING
 AT GEORGE BUSH INTERCONTINENTAL AIRPORT
PHASING PLAN - PHASE 1A
 T.I.P. No. 23-311-IAH B.S.C. No. 2023-356-IAH

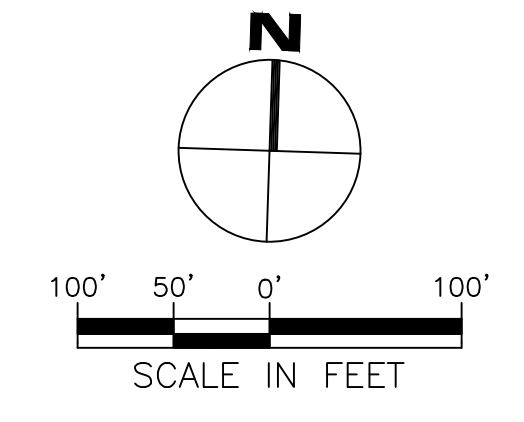
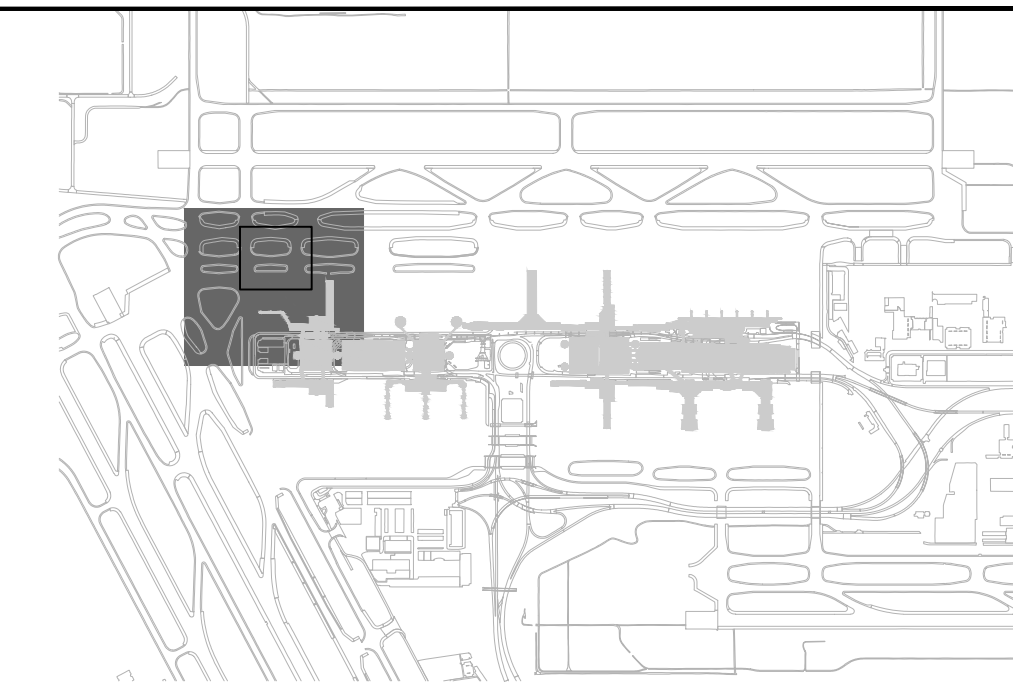
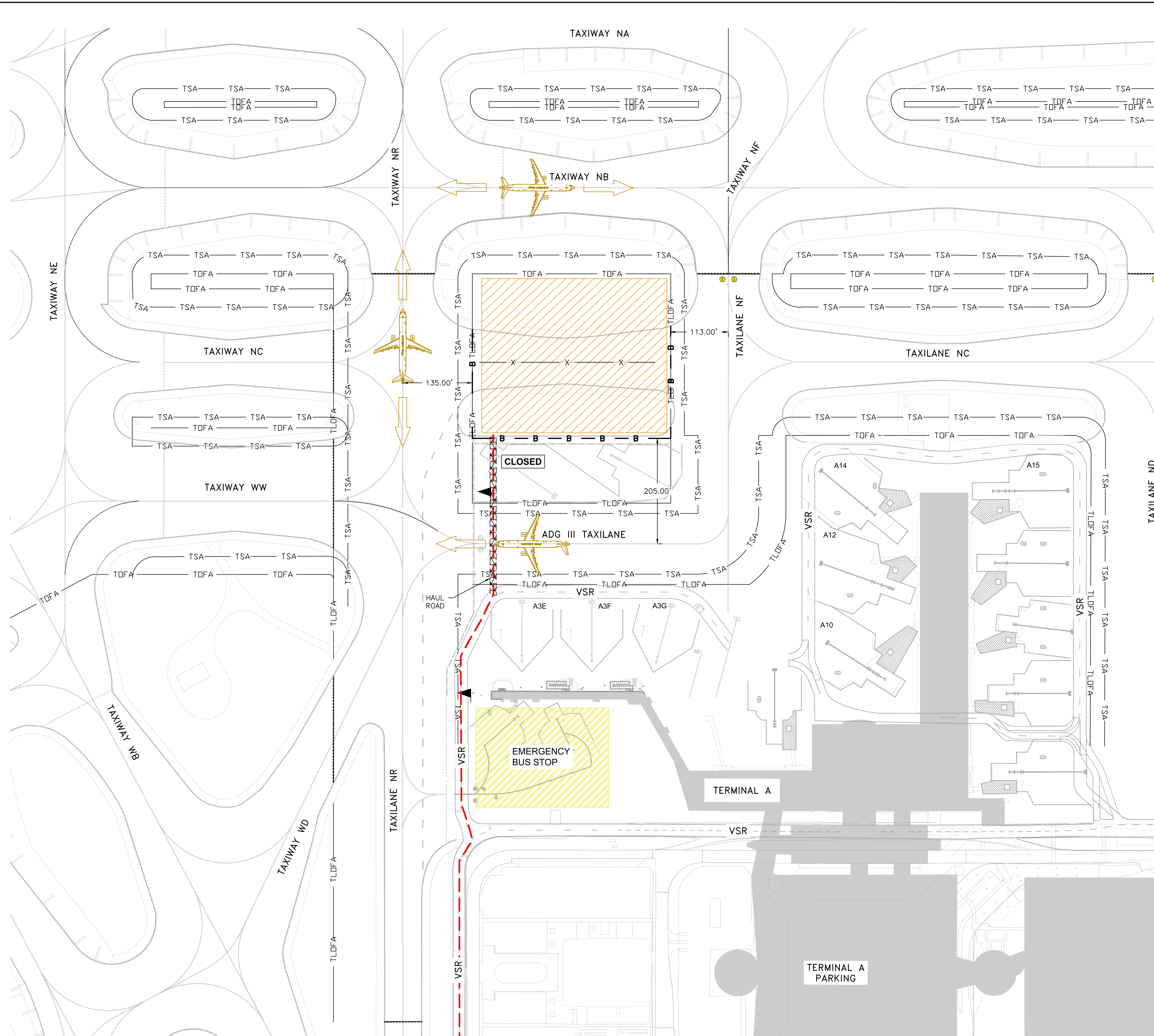
ISSUED FOR PERMIT	
PROJECT MGR:	DA
DESIGNER:	ZJ
DRAWN BY:	ZJ
CHECKED BY:	DB
SCALE:	1" = 100'
DATE:	06/03/2024



DEPARTMENT OF AVIATION	
APPROVED BY:	DATE:

PROJECT NO.	PN 973
C.I.P. NO.	A-000713
H.A.S. NO.	
SHEET NO.	

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LEGEND

- PHASE 1A
- TOFA — TAXIWAY OBJECT FREE AREA
- TLOFA — TAXILANE OBJECT FREE AREA
- TSA — TAXIWAY SAFETY AREA
- B — B — LOW-PROFILE BARRICADE
- X — MARKING REMOVAL
- H A U L R O U T E
- ▲ — F L A G G E R

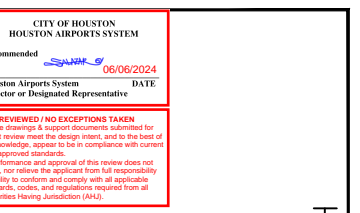
NOTES:

1. THE FOLLOWING PAVEMENTS WILL BE CLOSED DURING PHASE 1A:
 - TAXIWAY NC (BETWEEN TAXIWAY NR AND TAXIWAY NF)
 - TAXIWAY NC WILL HENCEFORTH BE PERMANENTLY CLOSED AT THIS LOCATION.
2. WORK ACTIVITIES DURING PHASE 1A INCLUDE:
 - MAINTENANCE OF TRAFFIC
 - PAVEMENT AND MARKING REMOVAL
 - PLACEMENT OF STABILIZED SUBGRADE
 - PLACEMENT OF CRUSHED CONCRETE AGGREGATE BASE COURSE
 - PLACEMENT OF CEMENT TREATED BASE
 - PLACEMENT OF CEMENT CONCRETE PAVEMENT
 - REMOVAL OF ELECTRICAL INFRASTRUCTURE
 - INSTALLATION OF TAXIWAY EDGE LIGHTS
 - INSTALLATION OF STORM SEWER PIPES AND INLETS
 - STRUCTURE ADJUSTMENTS
 - EARTHWORK/GRADING
3. THE WEST EXISTING RON PARKING POSITION (HS2) IS TO BE CLOSED. EAST EXISTING RON PARKING POSITION (HS1) IS TO BE IN OPERATION.
 - DEBRIS BLOCKING FABRIC IS REQUIRED TO BE USED TO PROTECT AIRCRAFT IN ACTIVE RON POSITION FROM FOD.

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 13501 Katy Freeway
 Suite 3425
 Houston, Texas 77079
 (832) 494-3800
 TPPE Firm Registration No. F-10161

REVISIONS

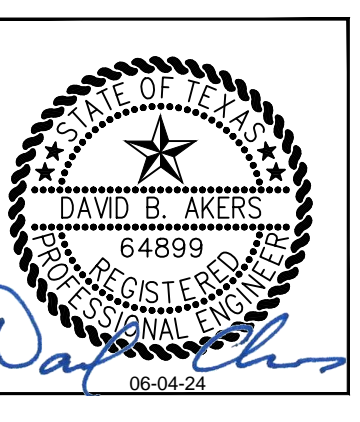
NO.	DESCRIPTION	DATE	BY



TERMINAL A NORTH RON PARKING
 AT GEORGE BUSH INTERCONTINENTAL AIRPORT
**PHASING PLAN - PHASE 1A -
 PAVEMENT MARKING**
 T.I.P. No. 23-311-IAH B.S.G. No. 2023-356-IAH

ISSUED FOR PERMIT

PROJECT MGR:	DA
DESIGNER:	ZJ
DRAWN BY:	ZJ
CHECKED BY:	BS
SCALE:	1" = 100'
DATE:	06/03/2024



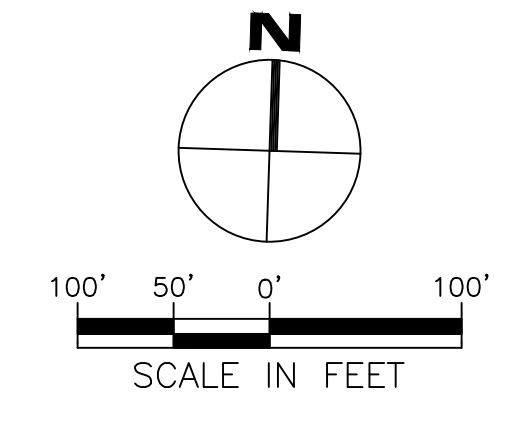
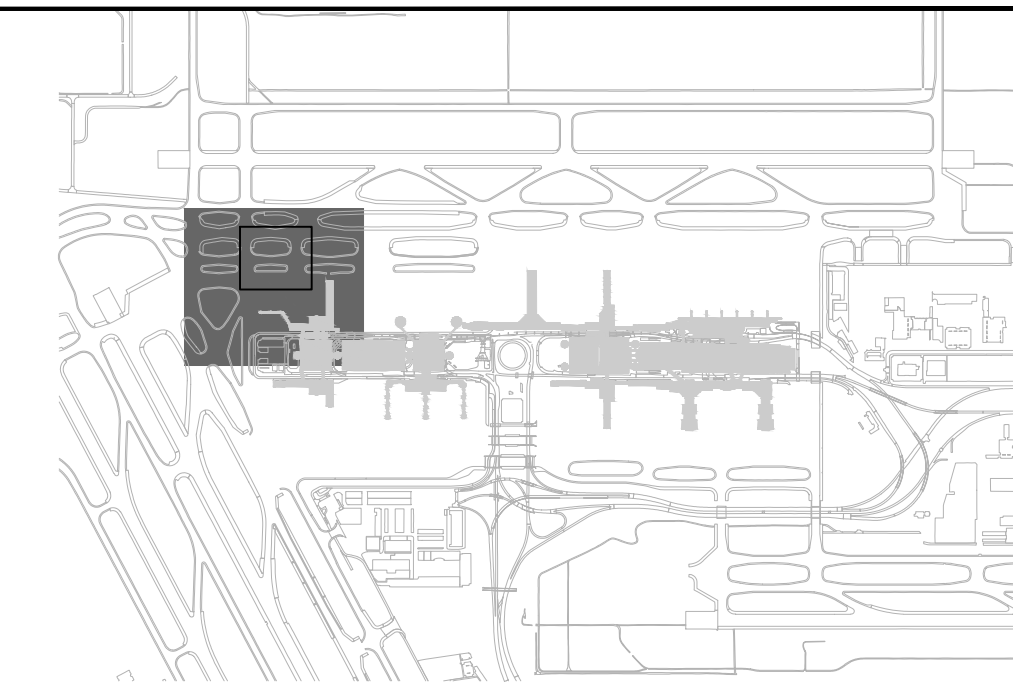
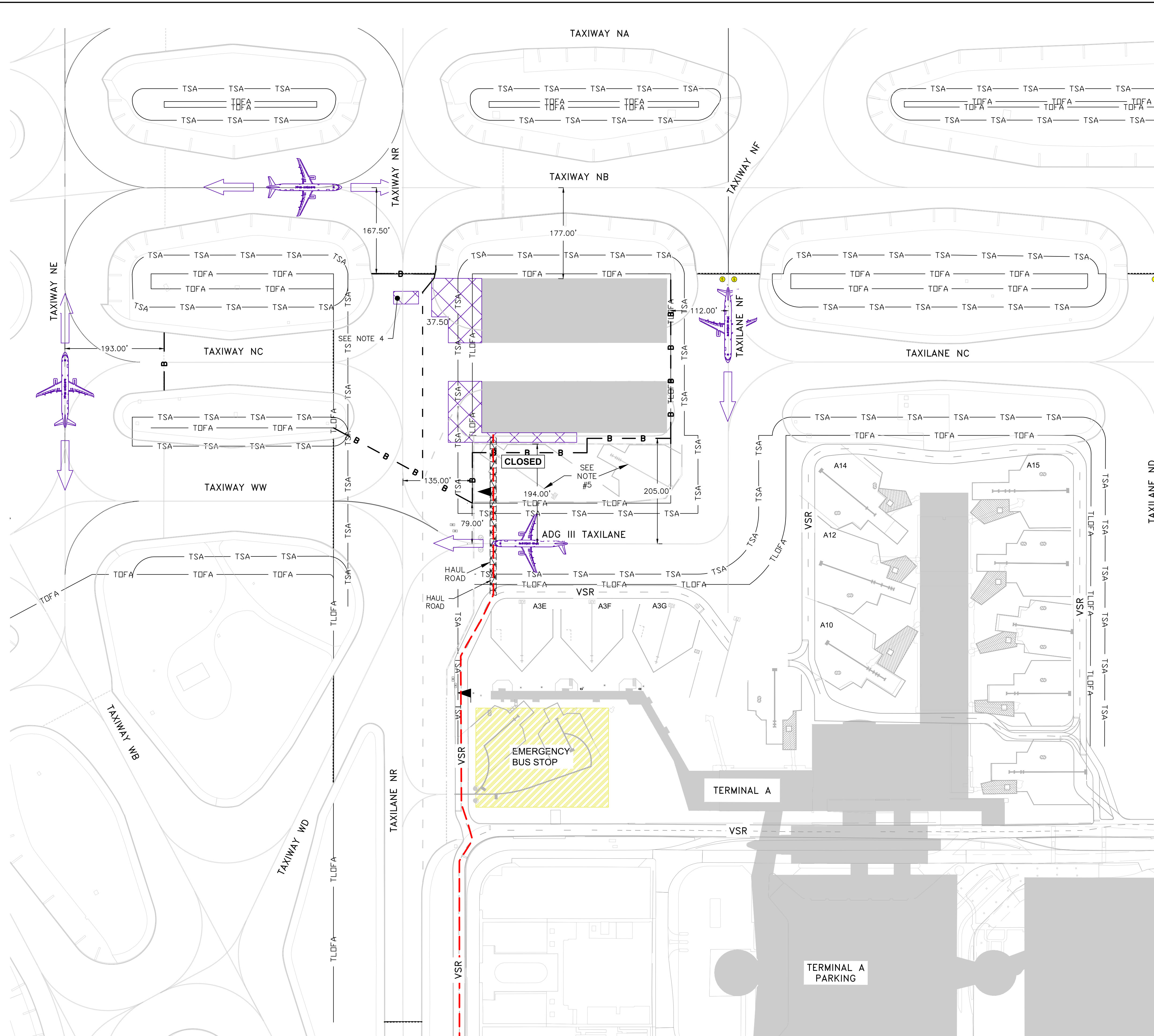
DEPARTMENT OF AVIATION

APPROVED BY:	DATE:

HOUSTON AIRPORT SYSTEMS
 AUTHORIZED REPRESENTATIVE

PROJECT NO.	PN 973
C.I.P. NO.	A-000713
H.A.S. NO.	
SHEET NO.	

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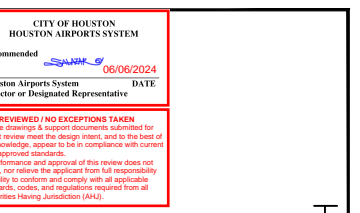
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- COMPLETED PAVEMENT
- TOFA — TAXIWAY OBJECT FREE AREA
- TLOFA — TAXILANE OBJECT FREE AREA
- TSA — TAXIWAY SAFETY AREA
- B — LOW-PROFILE BARRICADE
- Haul Route
- FLAGGER

NOTES:

1. THE FOLLOWING PAVEMENTS WILL BE CLOSED DURING PHASE 1B:
 - TAXIWAY NC (BETWEEN TAXIWAY NE AND TAXIWAY NR)
 - TAXIWAY NR (BETWEEN TAXIWAY WW AND TAXIWAY NB)
2. WORK ACTIVITIES DURING PHASE 1B INCLUDE:
 - MAINTENANCE OF TRAFFIC
 - PAVEMENT AND MARKING REMOVAL
 - PLACEMENT OF STABILIZED SUBGRADE
 - PLACEMENT OF CRUSHED CONCRETE AGGREGATE BASE COURSE
 - PLACEMENT OF CEMENT TREATED BASE
 - PLACEMENT OF CEMENT CONCRETE PAVEMENT
 - REMOVAL OF ELECTRICAL INFRASTRUCTURE
 - INSTALLATION OF TAXIWAY EDGE LIGHTS
 - INSTALLATION OF STORM SEWER PIPES AND INLETS
 - STRUCTURE ADJUSTMENTS
 - EARTHWORK/GRADING
 - PAVEMENT MARKING INSTALLATION
3. PAVEMENT MARKING LOCATED OUTSIDE THE TOFA TO BE PLACED DURING NIGHTTIME HOURS SO AS NOT TO CONFLICT WITH AIRPORT OPERATIONS.
4. CONTRACTOR TO COORDINATE WITH HAS OAR FOR THE LOCATION AND REPAIR REQUIRED FOR TWO PANELS.
5. THE WEST EXISTING RON PARKING POSITION (HS2) IS TO BE CLOSED. THE EAST EXISTING RON PARKING POSITION (HS1) IS TO BE IN OPERATION.
 - DEBRIS BLOCKING FABRIC IS REQUIRED TO BE USED TO PROTECT AIRCRAFT IN ACTIVE RON POSITION FROM FOD.

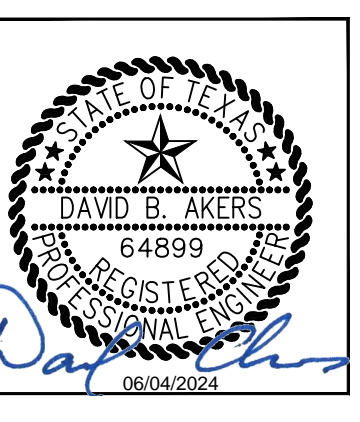
IEA
 13501 Katy Freeway
 Suite 3425
 Houston, Texas 77079
 (832) 494-3800
 TBPE Firm Registration No. F-10161

REVISIONS			
NO.	DESCRIPTION	DATE	BY



TERMINAL A NORTH RON PARKING
 AT GEORGE BUSH INTERCONTINENTAL AIRPORT
PHASING PLAN - PHASE 1B
 T.I.P. No. 23-311-IAH B.S.G. No. 2023-356-IAH

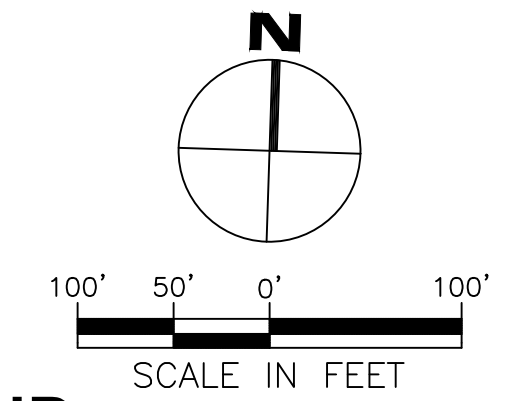
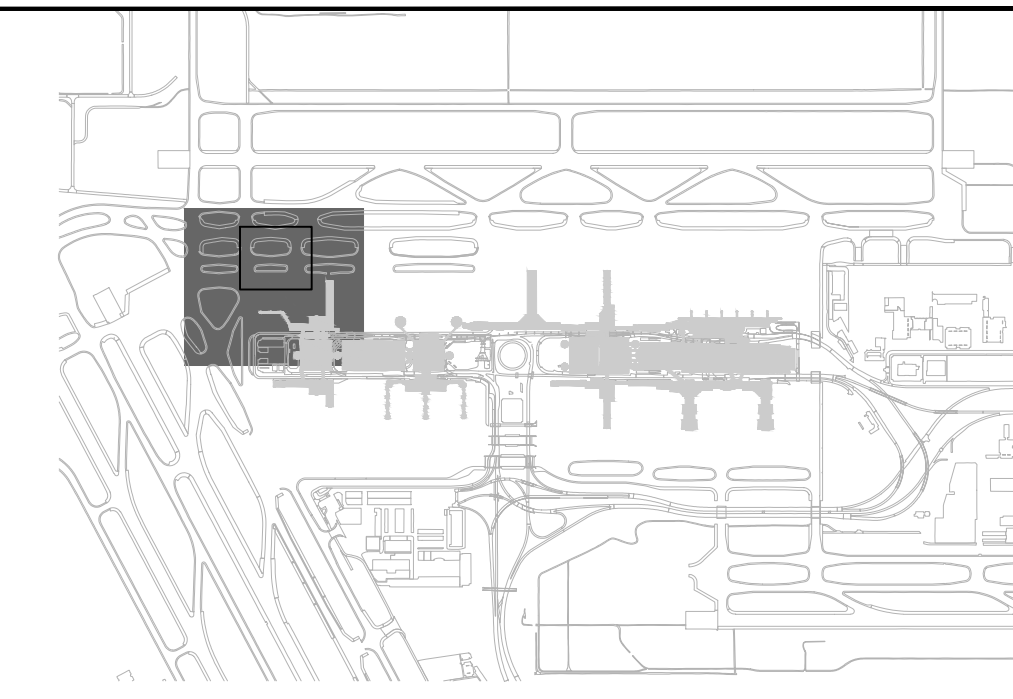
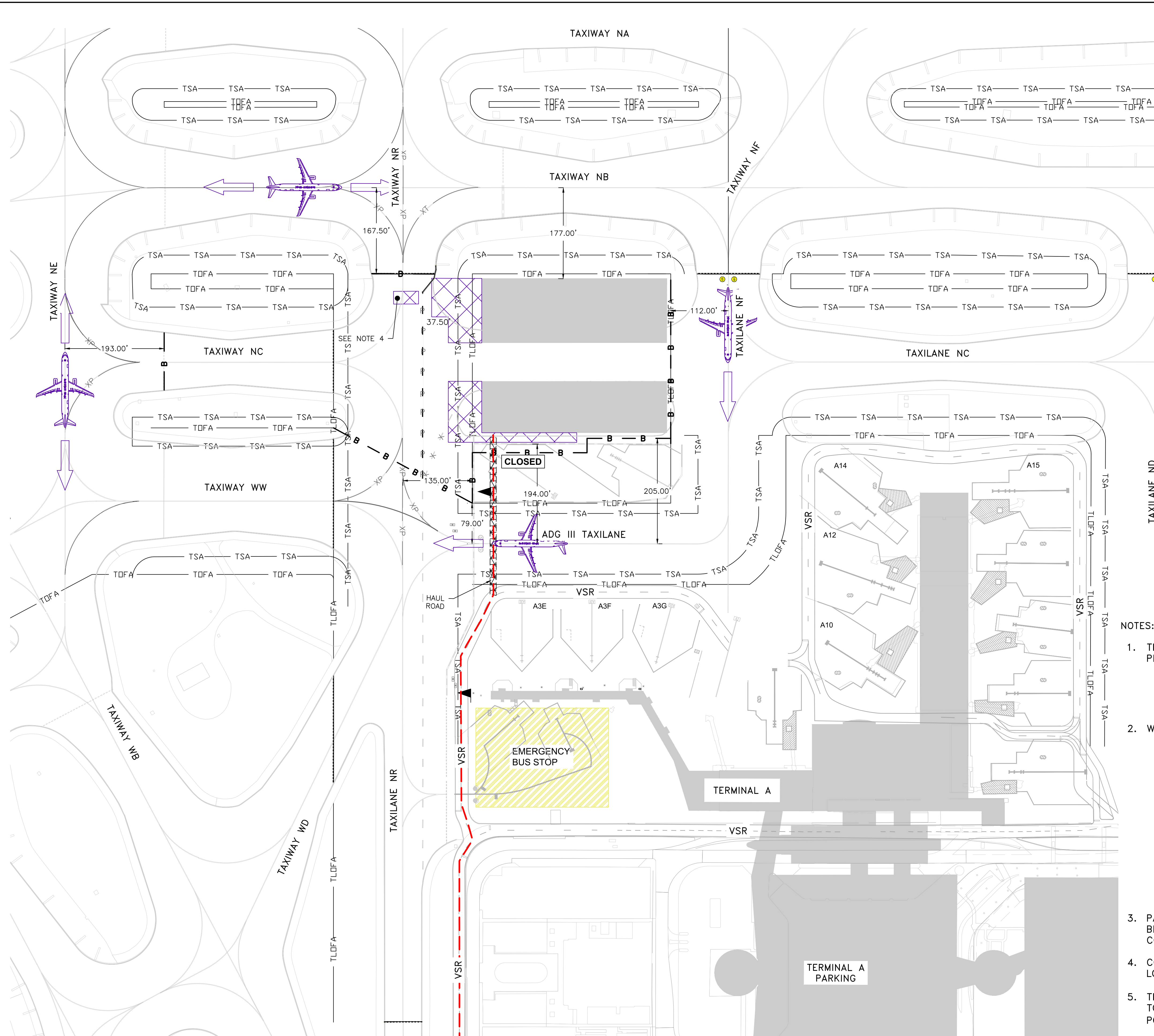
ISSUED FOR PERMIT	
PROJECT MGR:	DA
DESIGNER:	ZJ
DRAWN BY:	ZJ
CHECKED BY:	BS
SCALE:	1" = 100'
DATE:	06/03/2024



DEPARTMENT OF AVIATION	
APPROVED BY:	DATE:

PROJECT NO.	PN 973
C.I.P. NO.	A-000713
H.A.S. NO.	
SHEET NO.	

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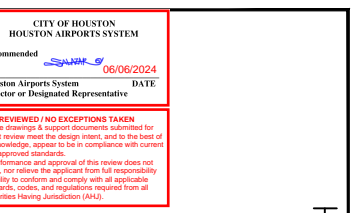
- LEGEND**
- PHASE 1B
 - COMPLETED PAVEMENT
 - TOFA — TAXIWAY OBJECT FREE AREA
 - TLOFA — TAXILANE OBJECT FREE AREA
 - TSA — TAXIWAY SAFETY AREA
 - B — LOW-PROFILE BARRICADE
 - MARKING REMOVAL
 - MARKING REMOVAL AND PERMANENT MARKING INSTALLED THIS PHASE
 - PERMANENT MARKING INSTALLED THIS PHASE
 - MARKING REMOVAL AND TEMPORARY MARKING INSTALLED THIS PHASE
 - HAUL ROUTE
 - FLAGGER

- NOTES:**
- THE FOLLOWING PAVEMENTS WILL BE CLOSED DURING PHASE 1B:
 - TAXIWAY NC (BETWEEN TAXIWAY NE AND TAXIWAY NR)
 - TAXIWAY NR (BETWEEN TAXIWAY WW AND TAXIWAY NB)
 - WORK ACTIVITIES DURING PHASE 1B INCLUDE:
 - MAINTENANCE OF TRAFFIC
 - PAVEMENT AND MARKING REMOVAL
 - PLACEMENT OF STABILIZED SUBGRADE
 - PLACEMENT OF CRUSHED CONCRETE AGGREGATE BASE COURSE
 - PLACEMENT OF CEMENT TREATED BASE
 - PLACEMENT OF CEMENT CONCRETE PAVEMENT
 - REMOVAL OF ELECTRICAL INFRASTRUCTURE
 - INSTALLATION OF TAXIWAY EDGE LIGHTS
 - INSTALLATION OF STORM SEWER PIPES AND INLETS
 - STRUCTURE ADJUSTMENTS
 - EARTHWORK/GRADING
 - PAVEMENT MARKING INSTALLATION
 - PAVEMENT MARKING LOCATED OUTSIDE THE TOFA TO BE PLACED DURING NIGHTTIME HOURS SO AS NOT TO CONFLICT WITH AIRPORT OPERATIONS.
 - CONTRACTOR TO COORDINATE WITH HAS OAR FOR THE LOCATION AND REPAIR REQUIRED FOR TWO PANELS.
 - THE WEST EXISTING RON PARKING POSITION (HS2) IS TO BE CLOSED. THE EAST EXISTING RON PARKING POSITION (HS1) IS TO BE IN OPERATION.
 - DEBRIS BLOCKING FABRIC IS REQUIRED TO BE USED TO PROTECT AIRCRAFT IN ACTIVE RON POSITION FROM FOD.

IEA
13501 Katy Freeway
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Houston, Texas 77079
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REVISIONS

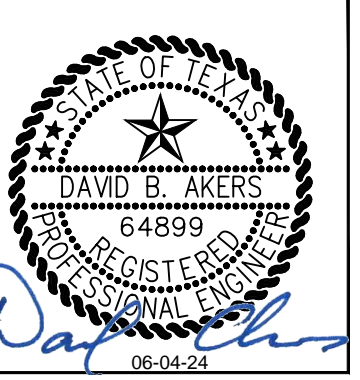
NO.	DESCRIPTION	DATE	BY



TERMINAL A NORTH RON PARKING
AT GEORGE BUSH INTERCONTINENTAL AIRPORT
**PHASING PLAN - PHASE 1B -
PAVEMENT MARKING**
T.I.P. No. 23-311-IAH B.S.G. No. 2023-356-IAH

ISSUED FOR PERMIT

PROJECT MGR:	DA
DESIGNER:	ZJ
DRAWN BY:	ZJ
CHECKED BY:	BS
SCALE:	1" = 100'
DATE:	06/03/2024



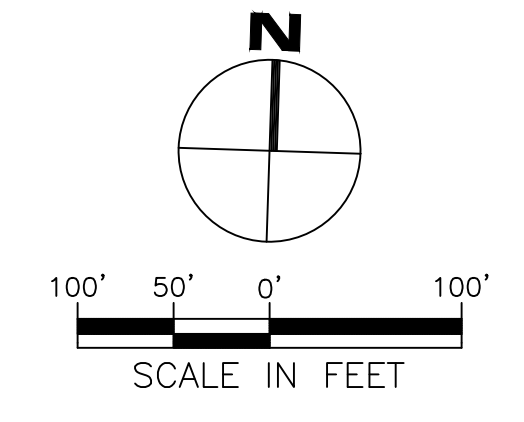
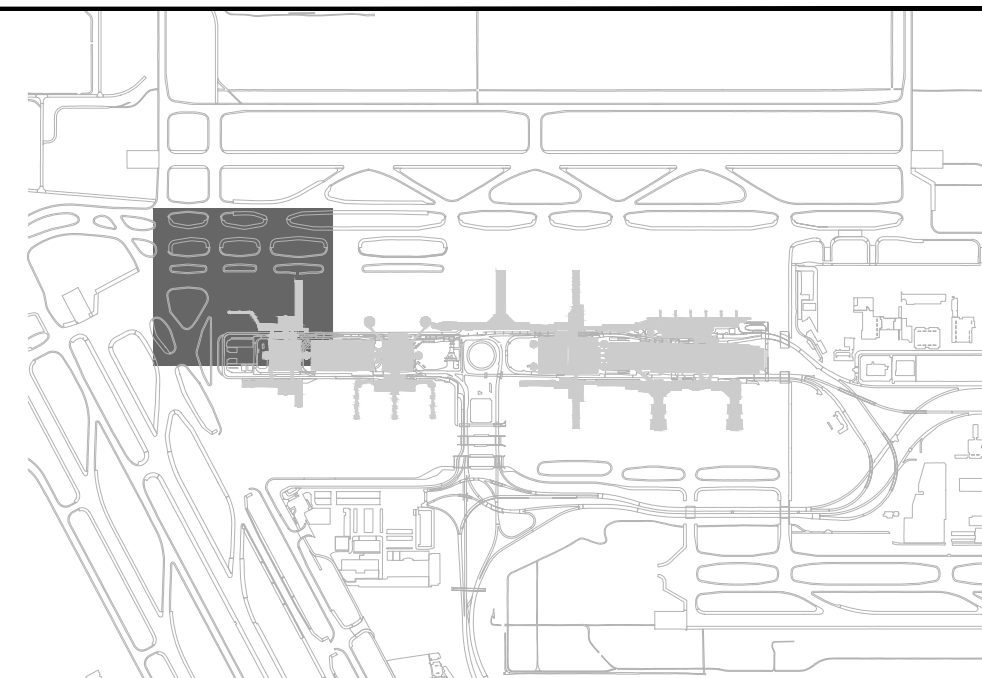
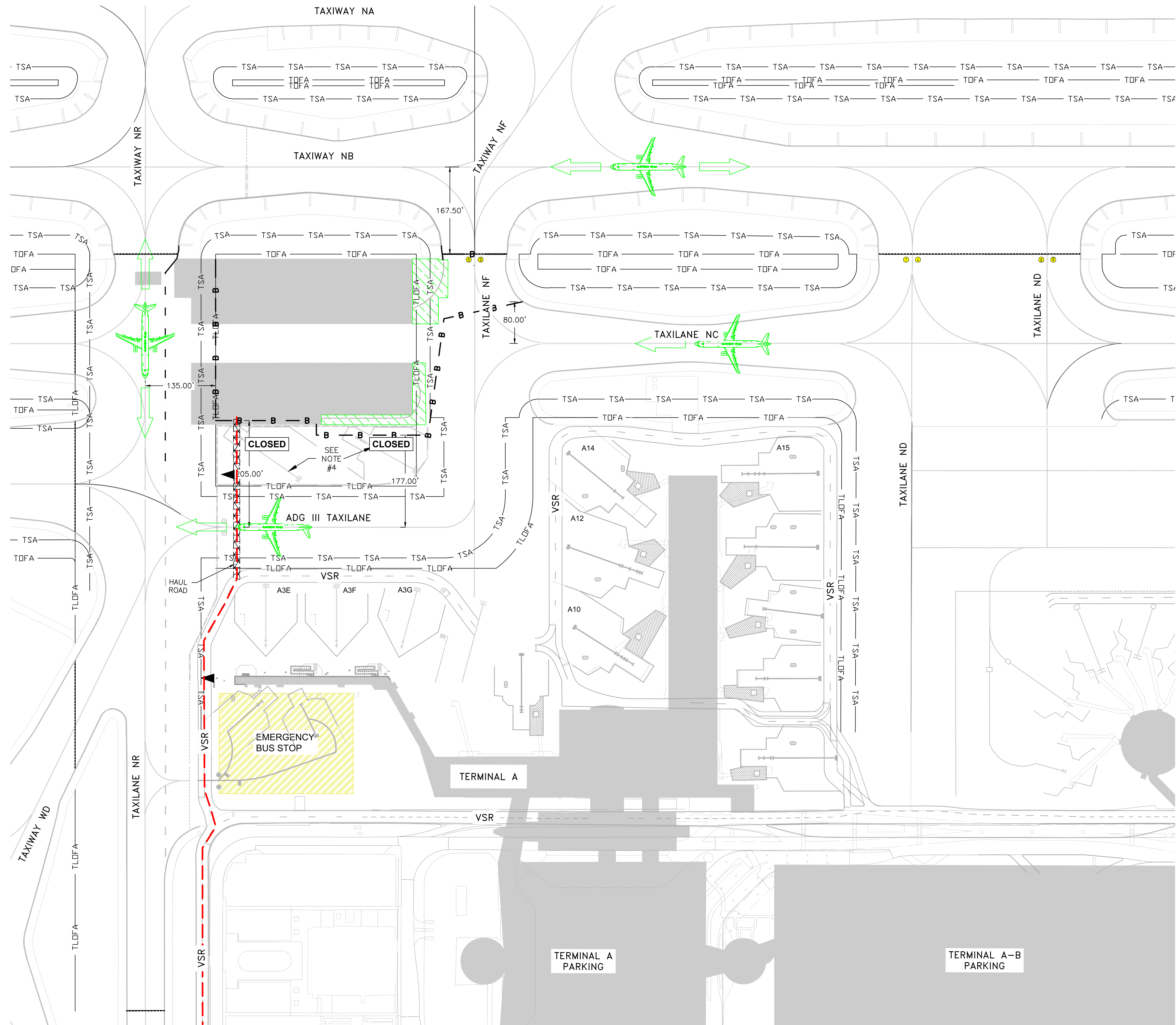
DEPARTMENT OF AVIATION

APPROVED BY:	DATE:

HOUSTON AIRPORT SYSTEMS
AUTHORIZED REPRESENTATIVE

PROJECT NO.	PN 973
C.I.P. NO.	A-000713
H.A.S. NO.	
SHEET NO.	

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LEGEND

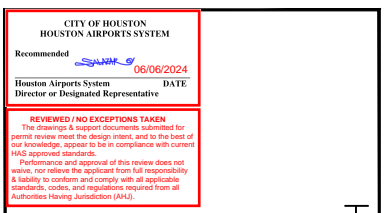
- PHASE 1C
- COMPLETED PAVEMENT
- TOFA — TAXIWAY OBJECT FREE AREA
- TLOFA — TAXILANE OBJECT FREE AREA
- TSA — TAXIWAY SAFETY AREA
- BB — LOW-PROFILE BARRICADE
- HAUL ROUTE
- FLAGGER

NOTES:

1. THE FOLLOWING PAVEMENTS WILL BE CLOSED DURING PHASE 1C:
 - TAXIWAY NF (BETWEEN TAXIWAY NB AND NORTH SIDE OF TAXILANE NC)
2. WORK ACTIVITIES DURING PHASE 1C INCLUDE:
 - MAINTENANCE OF TRAFFIC
 - PAVEMENT AND MARKING REMOVAL
 - PLACEMENT OF STABILIZED SUBGRADE
 - PLACEMENT OF CRUSHED CONCRETE AGGREGATE BASE COURSE
 - PLACEMENT OF CEMENT TREATED BASE
 - PLACEMENT OF CEMENT CONCRETE PAVEMENT
 - REMOVAL OF ELECTRICAL INFRASTRUCTURE
 - INSTALLATION OF TAXIWAY EDGE LIGHTS
 - INSTALLATION OF STORM SEWER PIPES AND INLETS
 - STRUCTURE ADJUSTMENTS
 - EARTHWORK/GRADING
 - PAVEMENT MARKING INSTALLATION
3. THE WEST EXISTING RON PARKING POSITION (HS2) AND THE EAST EXISTING RON PARKING POSITION (HS1) ARE TO BE CLOSED.
 - DEBRIS BLOCKING FABRIC IS REQUIRED TO BE USED TO PROTECT AIRCRAFT IN ACTIVE RON POSITION FROM FOD.

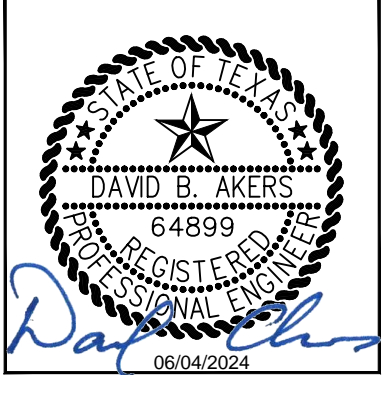
IEA
 13501 Katy Freeway
 Suite 3425
 Houston, Texas 77079
 (832) 494-3800
 TBPE Firm Registration No. F-10161

REVISIONS		
NO.	DESCRIPTION	DATE



TERMINAL A NORTH RON PARKING
 AT GEORGE BUSH INTERCONTINENTAL AIRPORT
PHASING PLAN - PHASE 1C
 T.I.P. No. 23-311-IAH B.S.C. No. 2023-356-IAH

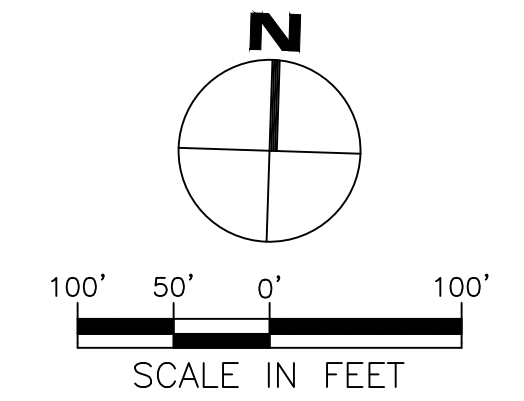
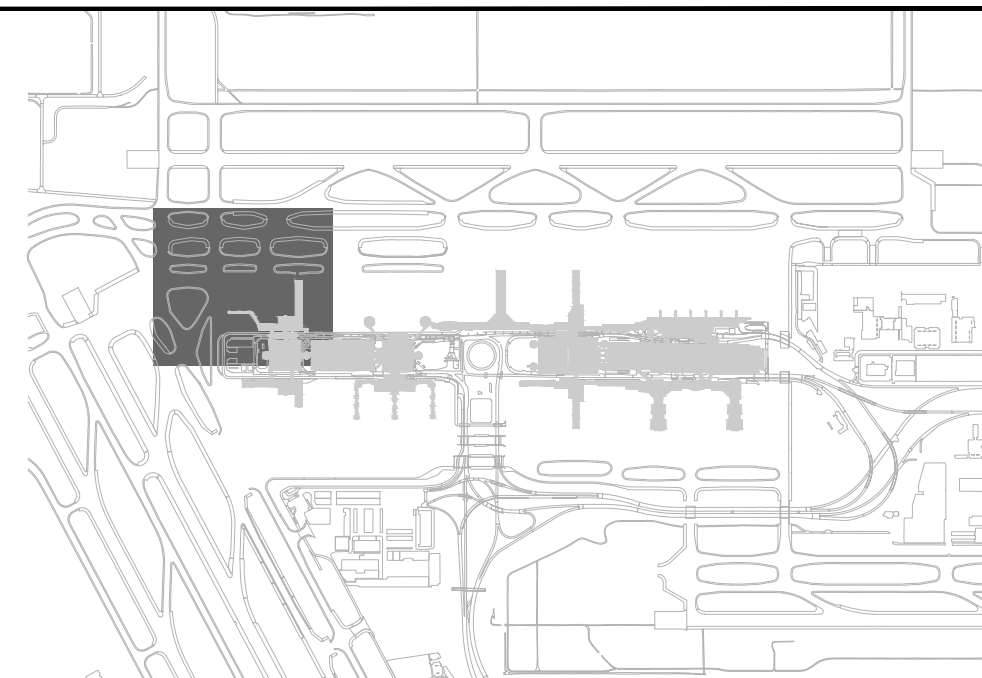
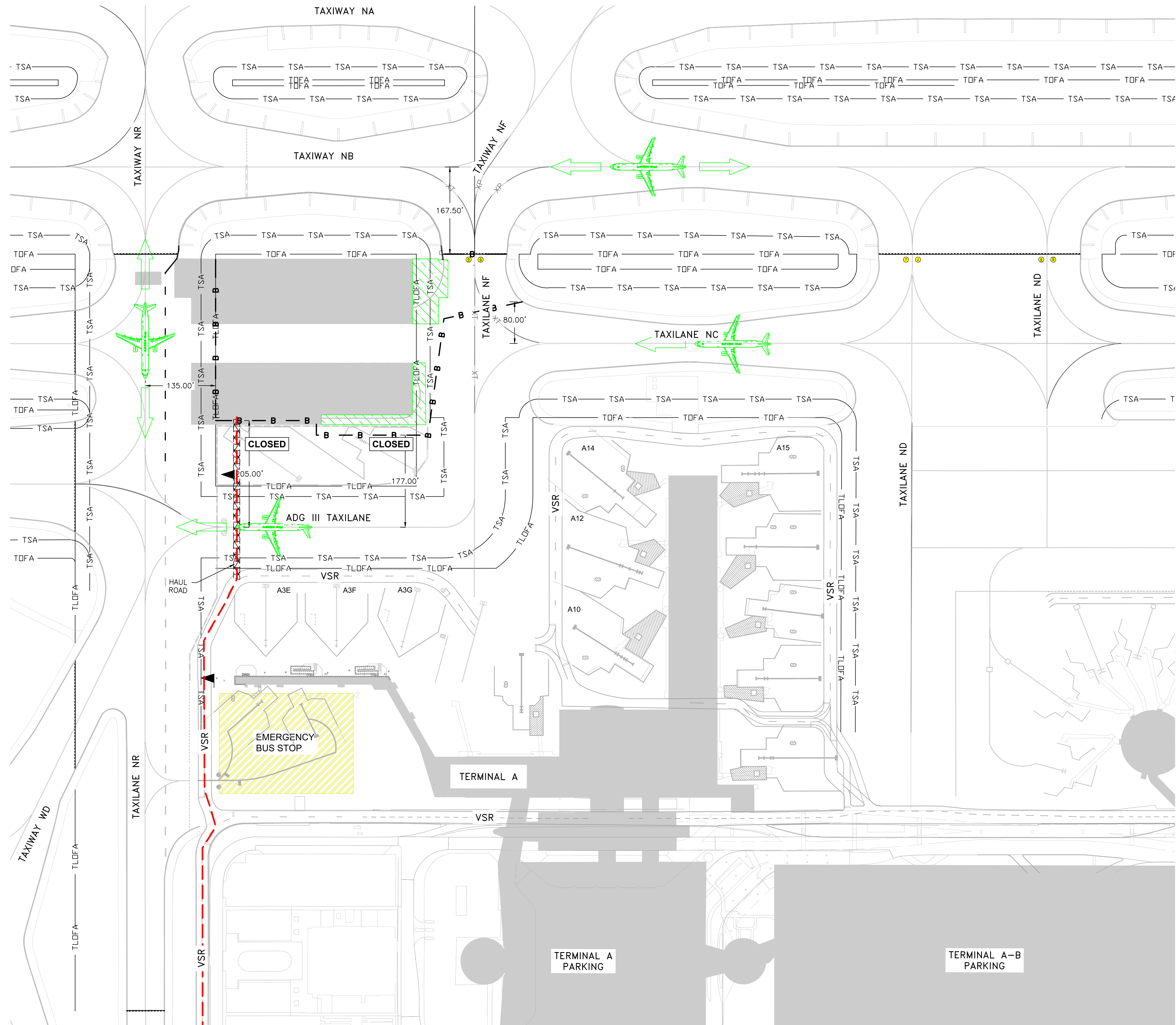
ISSUED FOR PERMIT	
PROJECT MGR:	DA
DESIGNER:	ZJ
DRAWN BY:	ZJ
CHECKED BY:	BS
SCALE:	1" = 100'
DATE:	06/03/2024



DEPARTMENT OF AVIATION	
APPROVED BY:	DATE:

PROJECT NO.	PN 973
C.I.P. NO.	A-000713
H.A.S. NO.	
SHEET NO.	

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LEGEND

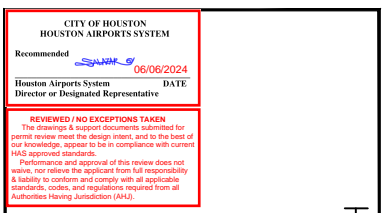
- PHASE 1C
- COMPLETED PAVEMENT
- TOFA — TAXIWAY OBJECT FREE AREA
- TLOFA — TAXILANE OBJECT FREE AREA
- TSA — TAXIWAY SAFETY AREA
- B — B — LOW-PROFILE BARRICADE
- X — MARKING REMOVAL
- XP — MARKING REMOVAL AND PERMANENT MARKING INSTALLED THIS PHASE
- P — PERMANENT MARKING INSTALLED THIS PHASE
- XT — MARKING REMOVAL AND TEMPORARY MARKING INSTALLED THIS PHASE
- HAUL ROUTE
- FLAGGER

NOTES:

1. THE FOLLOWING PAVEMENTS WILL BE CLOSED DURING PHASE 1C:
 - TAXIWAY NF (BETWEEN TAXIWAY NB AND NORTH SIDE OF TAXILANE NC)
2. WORK ACTIVITIES DURING PHASE 1C INCLUDE:
 - MAINTENANCE OF TRAFFIC
 - PAVEMENT AND MARKING REMOVAL
 - PLACEMENT OF STABILIZED SUBGRADE
 - PLACEMENT OF CRUSHED CONCRETE AGGREGATE BASE COURSE
 - PLACEMENT OF CEMENT TREATED BASE
 - PLACEMENT OF CEMENT CONCRETE PAVEMENT
 - REMOVAL OF ELECTRICAL INFRASTRUCTURE
 - INSTALLATION OF TAXIWAY EDGE LIGHTS
 - INSTALLATION OF STORM SEWER PIPES AND INLETS
 - STRUCTURE ADJUSTMENTS
 - EARTHWORK/GRADING
 - PAVEMENT MARKING INSTALLATION
3. THE WEST EXISTING RON PARKING (HS2) AND THE EAST EXISTING RON PARKING POSITION (HS1) ARE TO BE CLOSED.
 - DEBRIS BLOCKING FABRIC IS REQUIRED TO BE USED TO PROTECT AIRCRAFT IN ACTIVE RON POSITION FROM FOD.

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 TBPE Firm Registration No. F-10161

REVISIONS		
NO.	DESCRIPTION	DATE

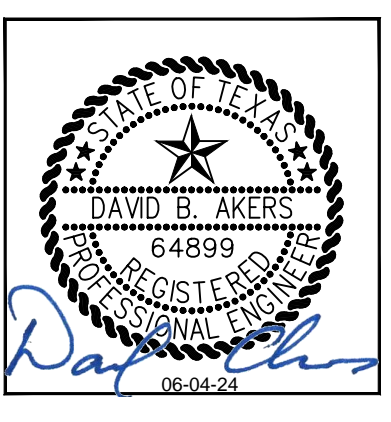


ISSUED FOR PERMIT

PROJECT MGR: DA
 DESIGNER: ZJ
 DRAWN BY: ZJ
 CHECKED BY: BS
 SCALE: 1" = 100'
 DATE: 06/03/2024

TERMINAL A NORTH RON PARKING AT GEORGE BUSH INTERCONTINENTAL AIRPORT
PHASING PLAN - PHASE 1C - PAVEMENT MARKING

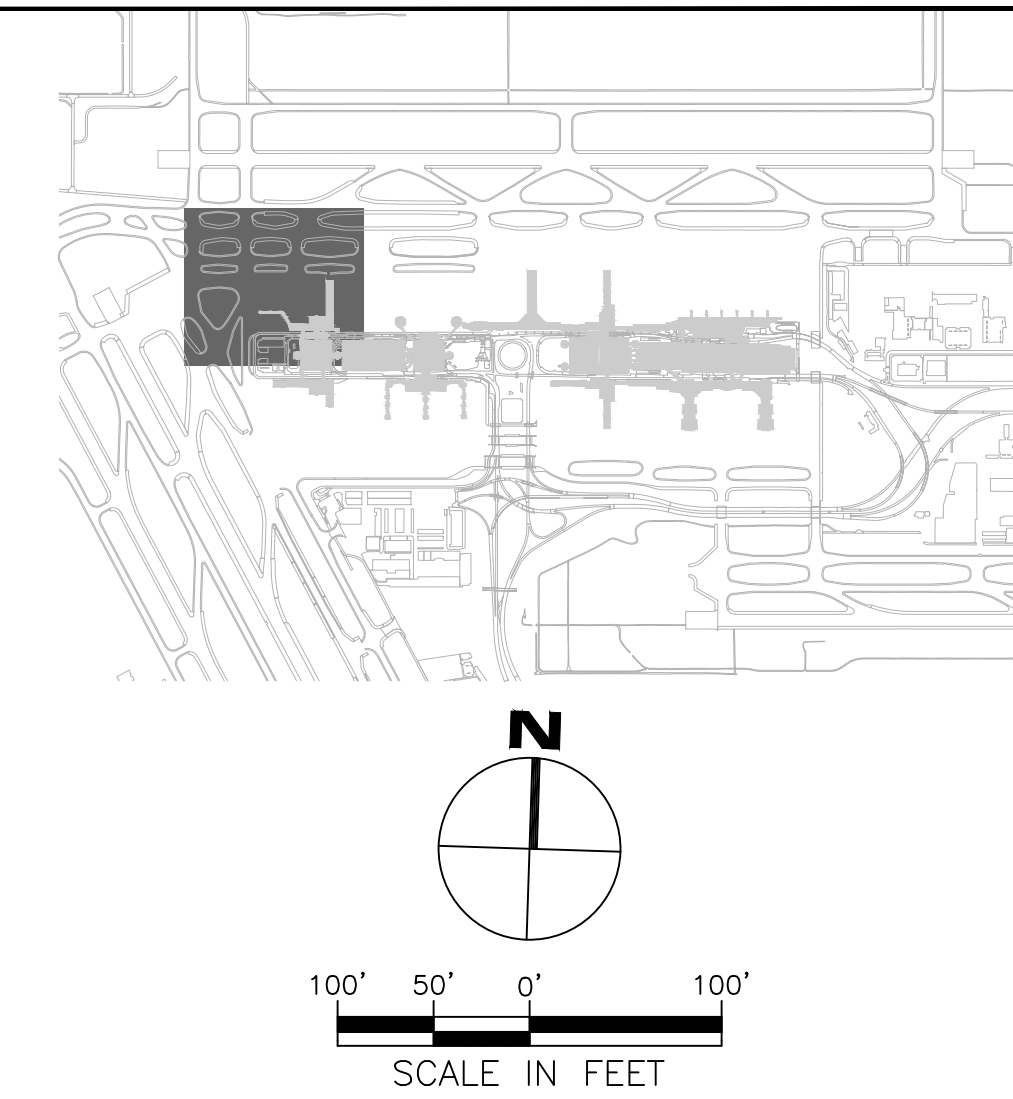
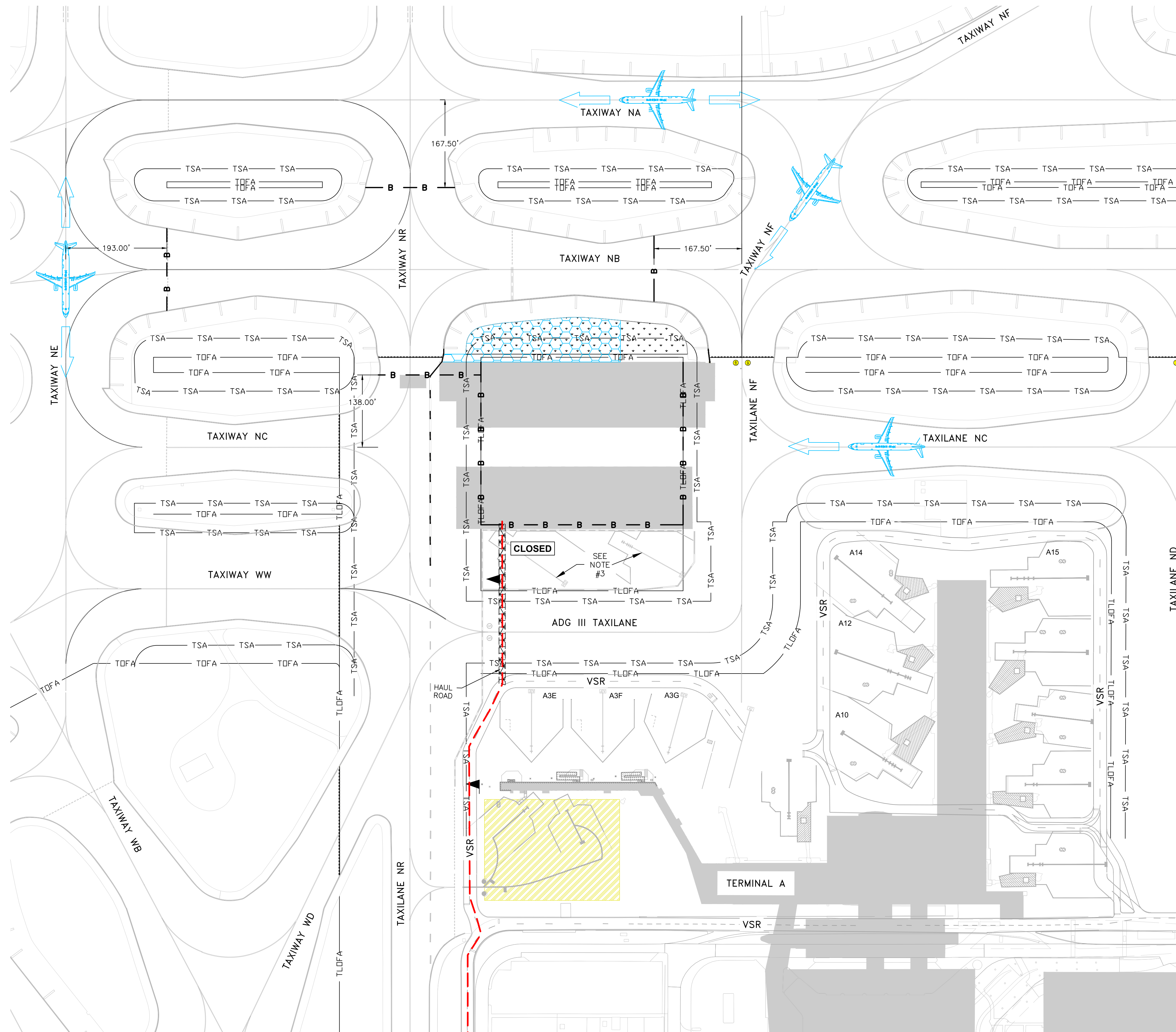
T.I.P. No. 23-311-IAH B.S.G. No. 2023-356-IAH



DEPARTMENT OF AVIATION	
APPROVED BY:	DATE:

PROJECT NO.	PN 973
C.I.P. NO.	A-000713
H.A.S. NO.	
SHEET NO.	

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LEGEND

- PHASE 1D
- COMPLETED PAVEMENT
- TOFA — TAXIWAY OBJECT FREE AREA
- TLOFA — TAXILANE OBJECT FREE AREA
- TSA — TAXIWAY SAFETY AREA
- B - B - LOW-PROFILE BARRICADE
- - - HAUL ROUTE
- ▲ FLAGGER

NOTES:

1. THE FOLLOWING PAVEMENTS WILL BE CLOSED DURING PHASE 1D:
 - TAXIWAY NB (BETWEEN TAXIWAY NE AND TAXIWAY ND)
 - TAXIWAY NR (BETWEEN TAXIWAY NC AND TAXIWAY NA)
2. WORK ACTIVITIES DURING PHASE 1D INCLUDE:
 - MAINTENANCE OF TRAFFIC
 - PLACEMENT OF ASPHALT SHOULDER
 - EARTHWORK/GRADING
 - STORM DRAINAGE UTILITIES
3. THE WEST EXISTING RON PARKING POSITION IS TO BE CLOSED (HS2) AND EAST EXISTING RON PARKING POSITION (HS1) IS TO BE IN OPERATION.
 - DEBRIS BLOCKING FABRIC IS REQUIRED TO BE USED TO PROTECT AIRCRAFT IN ACTIVE RON POSITION FROM FOD.

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REVISIONS

NO.	DESCRIPTION	DATE	BY

LETTER REVISION
 MAXIMUM LETTER SIZE
 1/8" (3.175mm) HIGH
 1/4" (6.35mm) WIDE
 ALL LETTERS MUST BE IN ALL CAPS
 ALL LETTERS MUST BE IN A SANS-SERIF FONT
 ALL LETTERS MUST BE IN BLACK
 ALL LETTERS MUST BE IN A 10% BOLD FONT
 ALL LETTERS MUST BE IN A 10% BOLD FONT

TERMINAL A NORTH RON PARKING
 AT GEORGE BUSH INTERCONTINENTAL AIRPORT

PHASING PLAN - PHASE 1D

T.I.P. No. 23-311-IAH B.S.G. No. 2023-356-IAH

ISSUED FOR PERMIT

PROJECT MGR:	DA
DESIGNER:	ZJ
DRAWN BY:	ZJ
CHECKED BY:	BS
SCALE:	1" = 100'
DATE:	06/03/2024

STATE OF TEXAS
 REGISTERED PROFESSIONAL ENGINEER
 DAVID B. AKERS
 64899
 06/04/2024

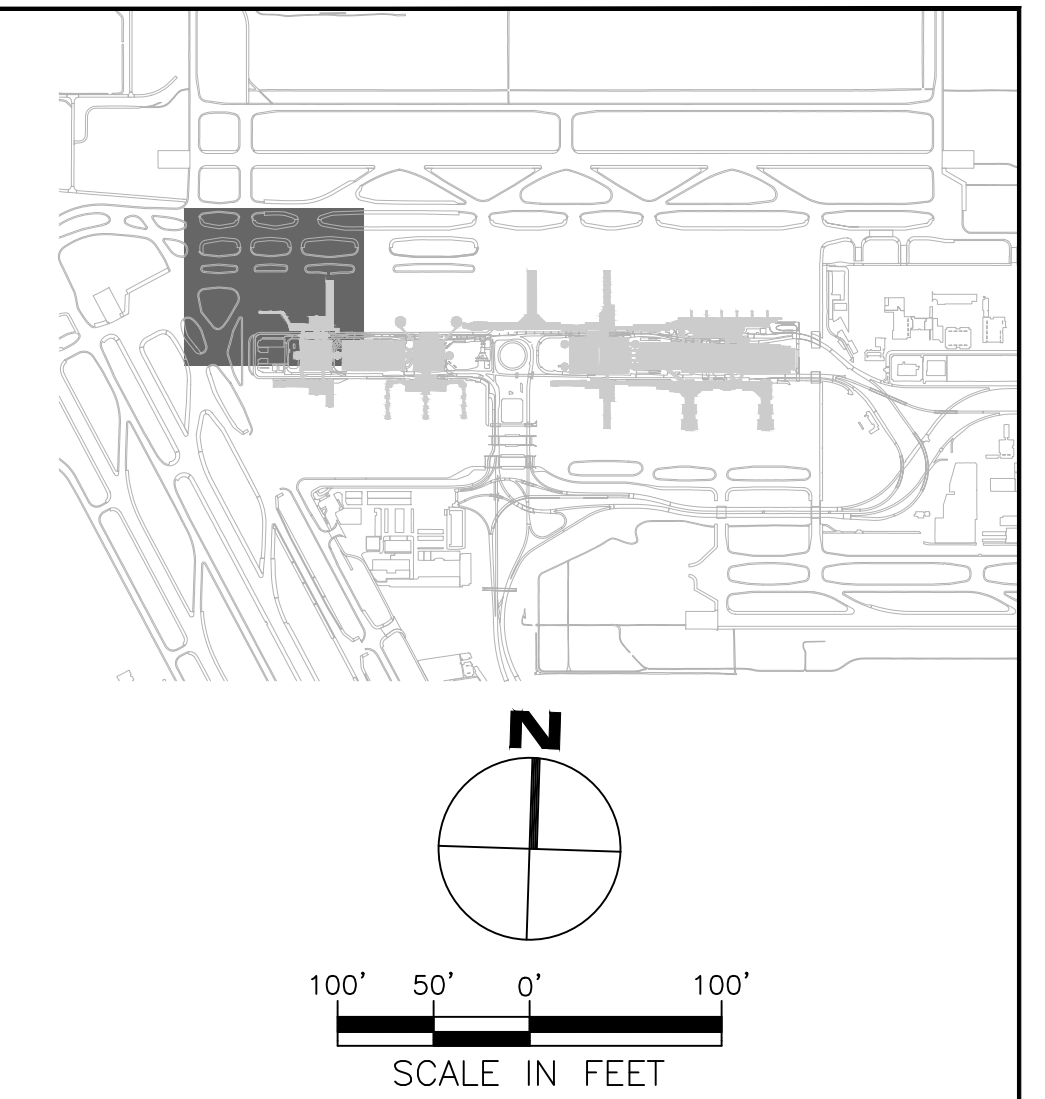
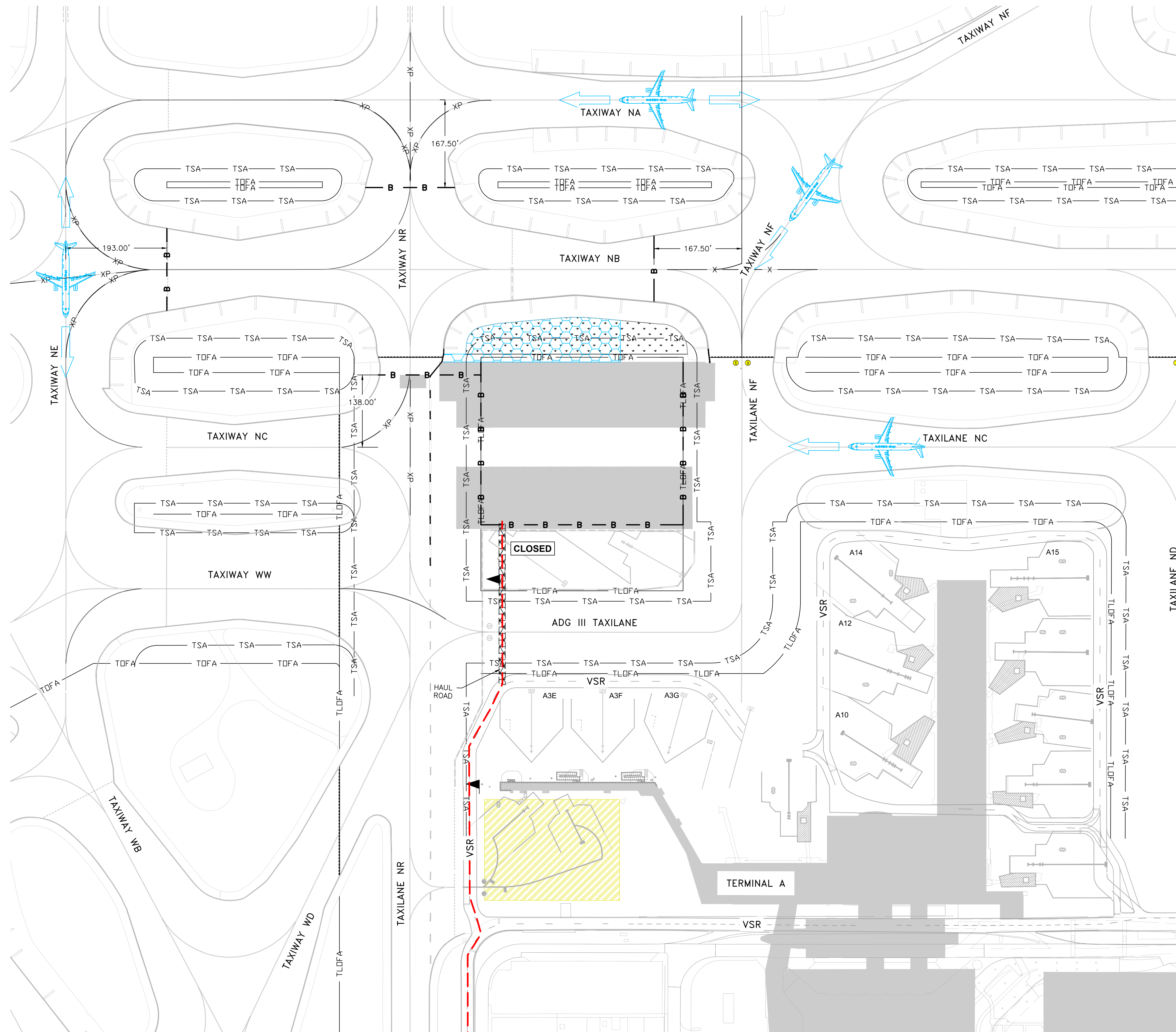
DEPARTMENT OF AVIATION

APPROVED BY:	DATE:

HOUSTON AIRPORT SYSTEMS
 AUTHORIZED REPRESENTATIVE

PROJECT NO.	PN 973
C.I.P. NO.	A-000713
H.A.S. NO.	
SHEET NO.	

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LEGEND

- PHASE 1D
- COMPLETED PAVEMENT
- TOFA — TAXIWAY OBJECT FREE AREA
- TLOFA — TAXILANE OBJECT FREE AREA
- TSA — TAXIWAY SAFETY AREA
- B — LOW-PROFILE BARRICADE
- X — MARKING REMOVAL
- XP — MARKING REMOVAL AND PERMANENT MARKING INSTALLED THIS PHASE
- P — PERMANENT MARKING INSTALL THIS PHASE
- HAUL ROUTE
- FLAGGER

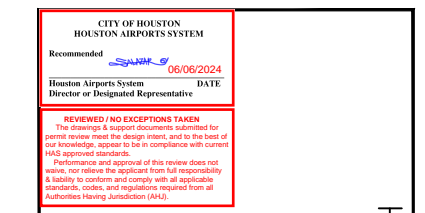
NOTES:

1. THE FOLLOWING PAVEMENTS WILL BE CLOSED DURING PHASE 1D:
 - TAXIWAY NB (BETWEEN TAXIWAY NE AND TAXIWAY NF)
 - TAXIWAY NR (BETWEEN TAXIWAY NC AND TAXIWAY NA)
2. WORK ACTIVITIES DURING PHASE 1D INCLUDE:
 - MAINTENANCE OF TRAFFIC
 - EARTHWORK/GRADING
 - STRUCTURE ADJUSTMENTS
3. THE WEST EXISTING RON PARKING POSITION IS TO BE CLOSED (HS2) AND EAST EXISTING RON PARKING POSITION (HS1) IS TO BE IN OPERATION.
 - DEBRIS BLOCKING FABRIC IS REQUIRED TO BE USED TO PROTECT AIRCRAFT IN ACTIVE RON POSITION FROM FOD.

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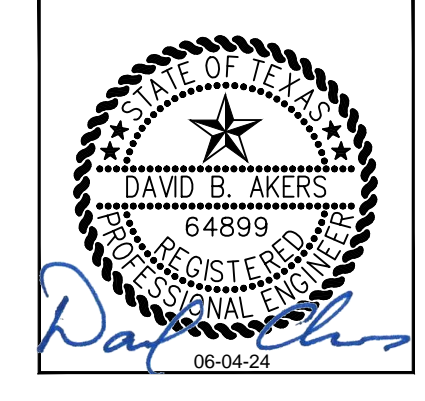
NO.	DESCRIPTION	DATE	BY



TERMINAL A NORTH RON PARKING
 AT GEORGE BUSH INTERCONTINENTAL AIRPORT
**PHASING PLAN - PHASE 1D -
 PAVEMENT MARKING**
 T.I.P. No. 23-311-IAH B.S.C. No. 2023-356-IAH

ISSUED FOR PERMIT

PROJECT MGR:	DA
DESIGNER:	ZJ
DRAWN BY:	ZJ
CHECKED BY:	BS
SCALE:	1" = 100'
DATE:	06/03/2024



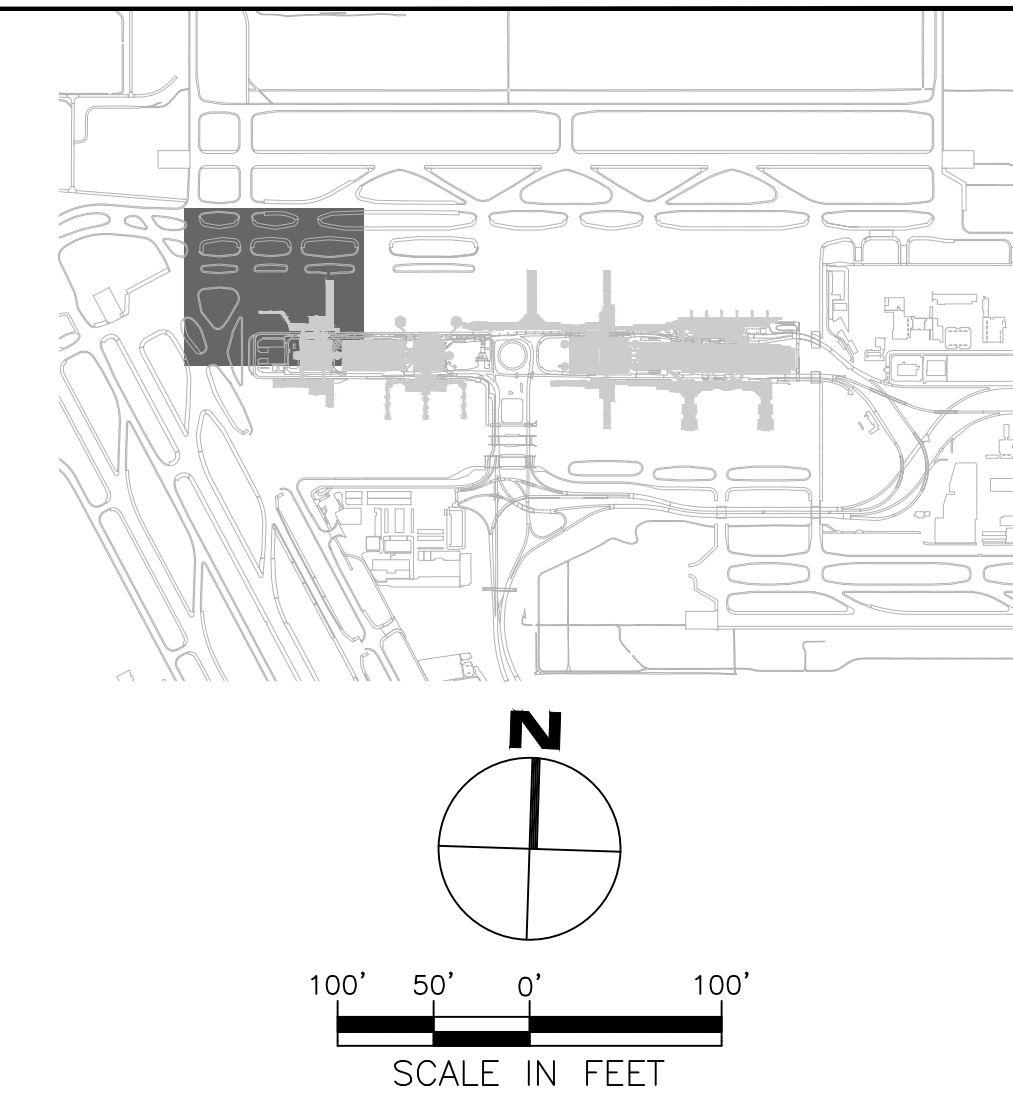
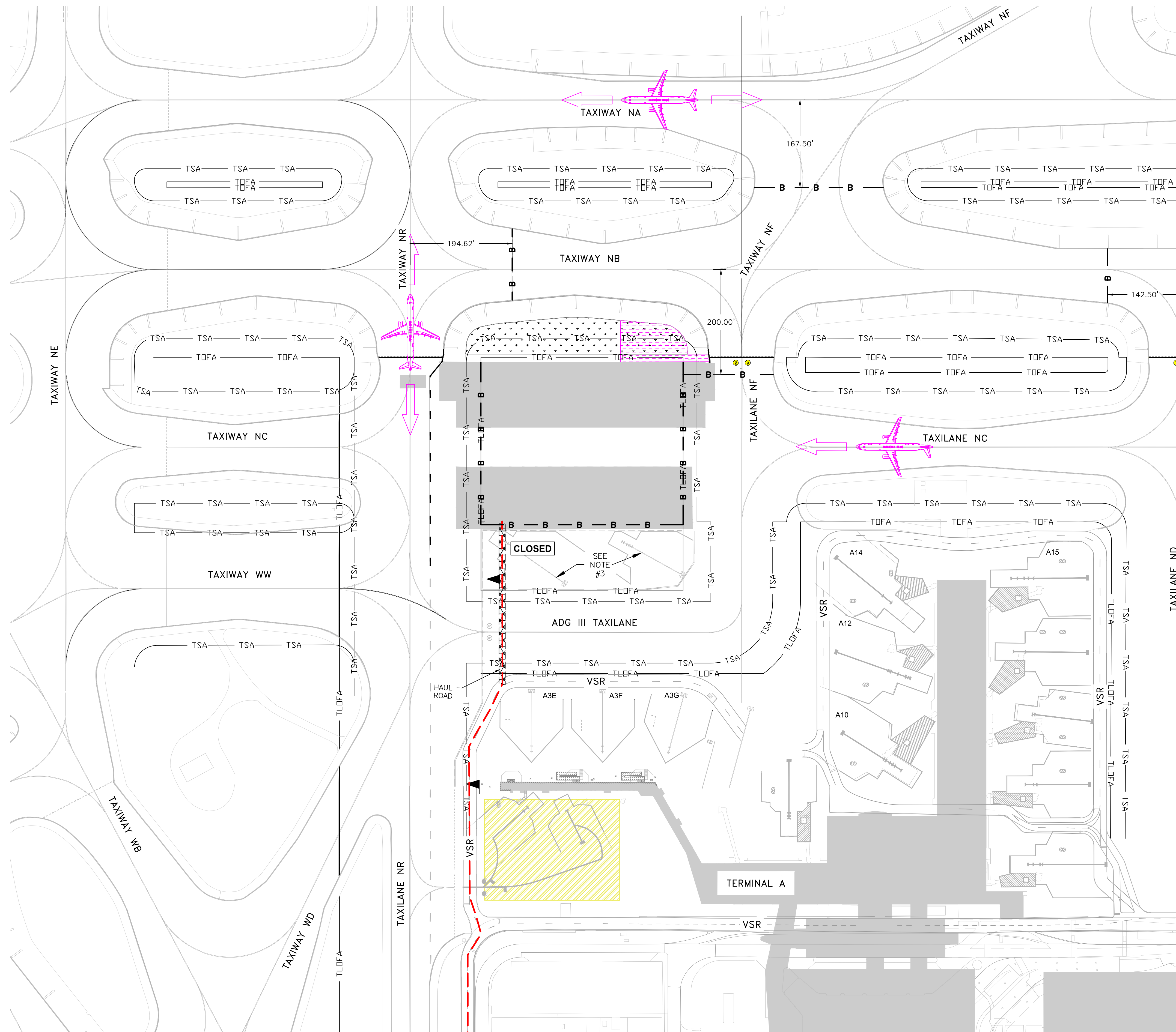
DEPARTMENT OF AVIATION

APPROVED BY:	DATE:

HOUSTON AIRPORT SYSTEMS
 AUTHORIZED REPRESENTATIVE

PROJECT NO.	PN 973
C.I.P. NO.	A-000713
H.A.S. NO.	
SHEET NO.	

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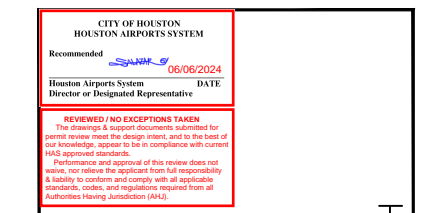
- PHASE 1E
- COMPLETED PAVEMENT
- TOFA — TAXIWAY OBJECT FREE AREA
- TLOFA — TAXILANE OBJECT FREE AREA
- TSA — TAXIWAY SAFETY AREA
- B — LOW-PROFILE BARRICADE
- H AUL ROUTE
- FLAGGER

NOTES:

1. THE FOLLOWING PAVEMENTS WILL BE CLOSED DURING PHASE 1E:
 - TAXIWAY NB (BETWEEN TAXIWAY NR AND TAXIWAY ND)
 - TAXIWAY NF (BETWEEN TAXILANE NC AND TAXIWAY NA)
2. WORK ACTIVITIES DURING PHASE 1E INCLUDE:
 - MAINTENANCE OF TRAFFIC
 - PLACEMENT OF ASPHALT SHOULDER
 - EARTHWORK/GRADING
 - ELECTRICAL WORK
3. THE WEST EXISTING RON PARKING POSITION IS TO BE CLOSED (HS2) AND EAST EXISTING RON PARKING POSITION (HS1) IS TO BE IN OPERATION.
 - DEBRIS BLOCKING FABRIC IS REQUIRED TO BE USED TO PROTECT AIRCRAFT IN ACTIVE RON POSITION FROM FOD.

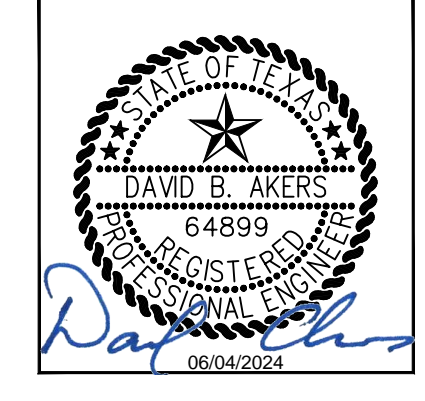
IEA
 13501 Katy Freeway
 Suite 3425
 Houston, Texas 77079
 (832) 494-3800
 TPBE Firm Registration No. F-10161

NO.	DESCRIPTION	DATE	BY



TERMINAL A NORTH RON PARKING
 AT GEORGE BUSH INTERCONTINENTAL AIRPORT
PHASING PLAN - PHASE 1E
 T.I.P. No. 23-311-IAH B.S.G. No. 2023-356-IAH

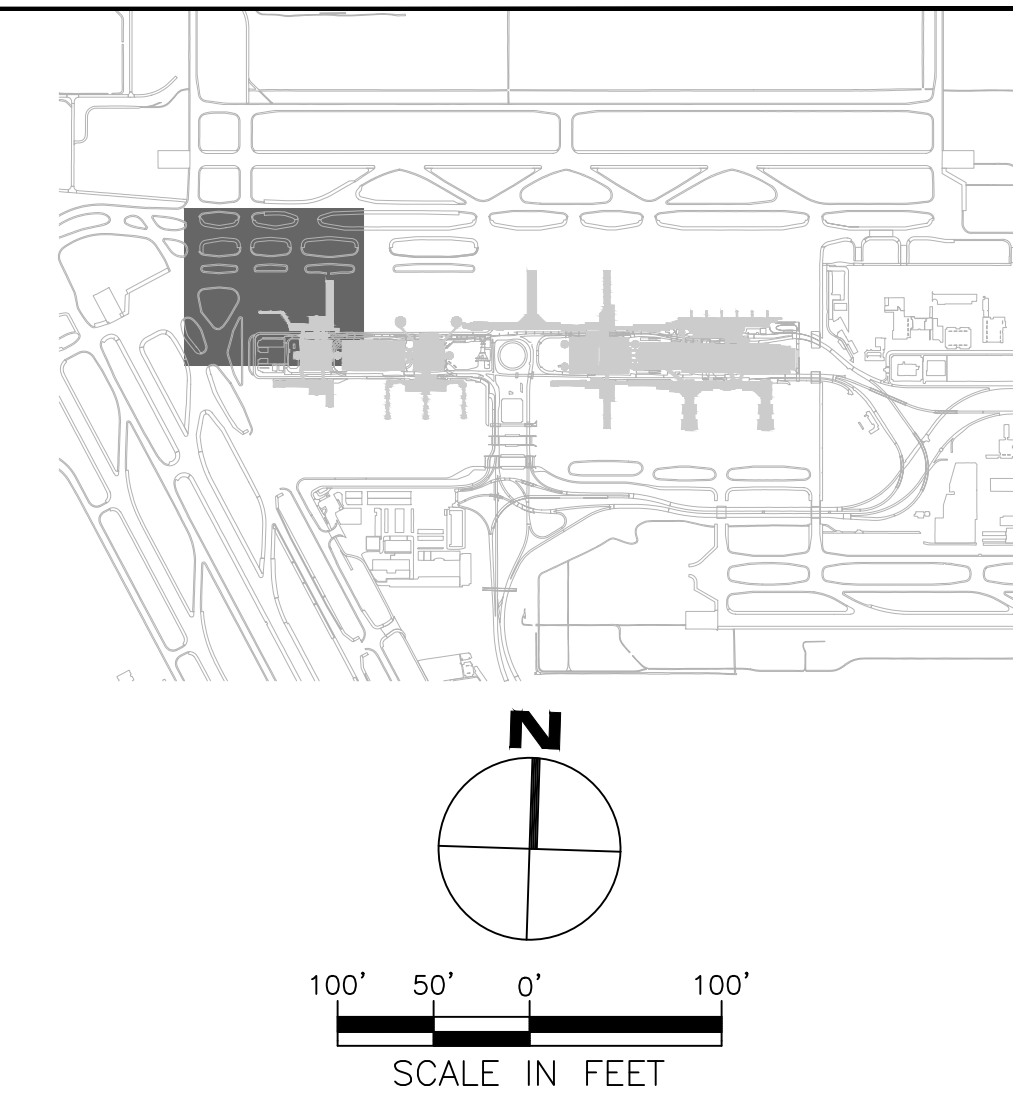
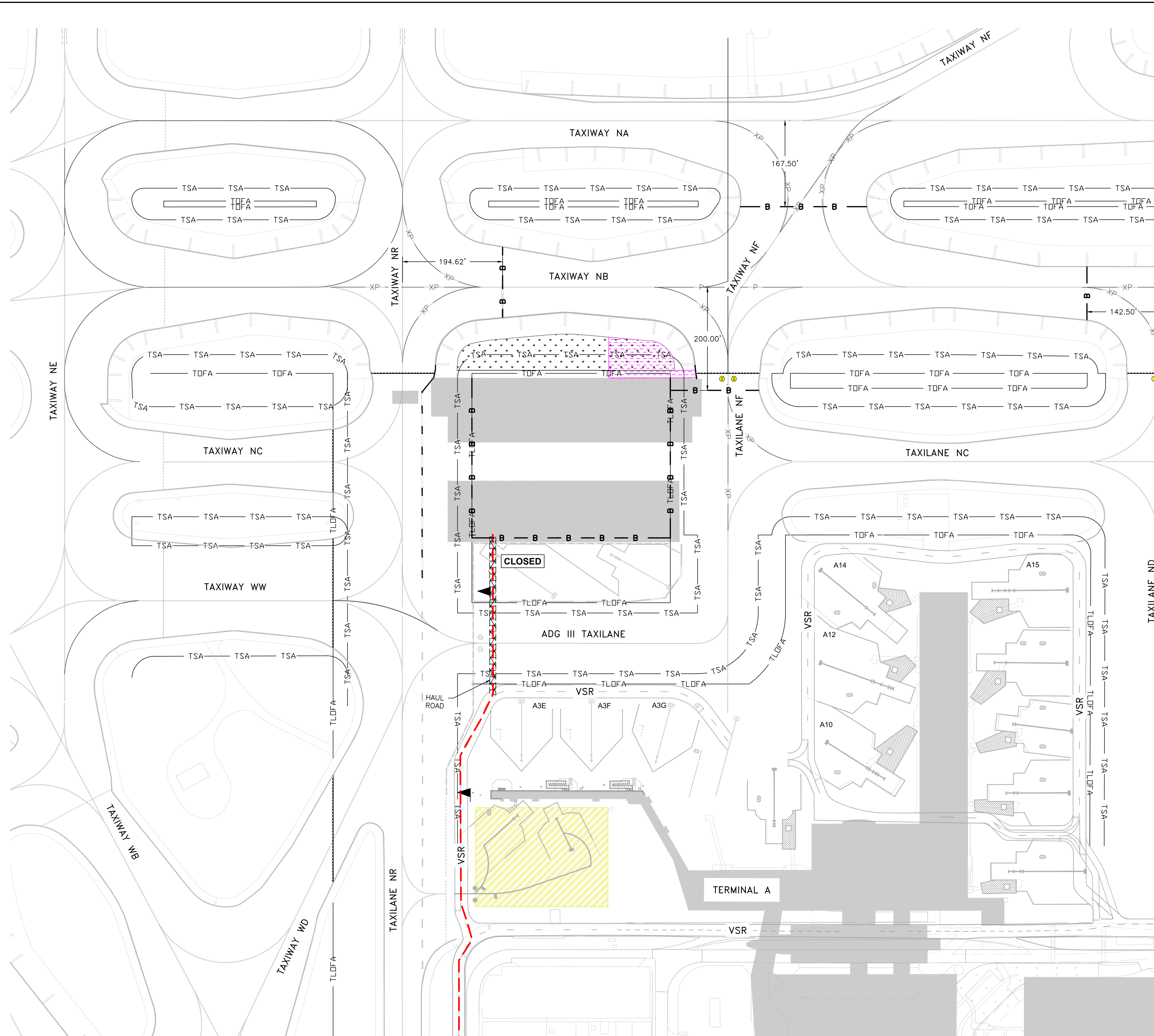
ISSUED FOR PERMIT	
PROJECT MGR:	DA
DESIGNER:	ZJ
DRAWN BY:	ZJ
CHECKED BY:	DB
SCALE:	1" = 100'
DATE:	06/03/2024



DEPARTMENT OF AVIATION	
APPROVED BY:	DATE:

PROJECT NO.	PN 973
C.I.P. NO.	A-000713
H.A.S. NO.	
SHEET NO.	

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LEGEND

- PHASE 1E
- COMPLETED PAVEMENT
- TOFA — TAXIWAY OBJECT FREE AREA
- TLOFA — TAXILANE OBJECT FREE AREA
- TSA — TAXIWAY SAFETY AREA
- B — B — LOW-PROFILE BARRICADE
- X — MARKING REMOVAL
- XP — MARKING REMOVAL AND PERMANENT MARKING INSTALLED THIS PHASE
- P — PERMANENT MARKING INSTALL THIS PHASE
- HAUL ROUTE
- FLAGGER

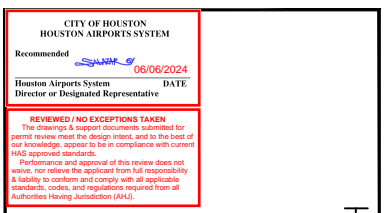
NOTES:

1. THE FOLLOWING PAVEMENTS WILL BE CLOSED DURING PHASE 1E:
 - TAXIWAY NB (BETWEEN TAXIWAY NR AND TAXIWAY ND)
 - TAXIWAY NF (BETWEEN TAXILANE NC AND TAXIWAY NA)
2. WORK ACTIVITIES DURING PHASE 1E INCLUDE:
 - MAINTENANCE OF TRAFFIC
 - EARTHWORK/GRADING
 - STRUCTURE ADJUSTMENTS
3. THE WEST EXISTING RON PARKING POSITION IS TO BE CLOSED (HS2) AND EAST EXISTING RON PARKING POSITION (HS1) IS TO BE IN OPERATION.
 - DEBRIS BLOCKING FABRIC IS REQUIRED TO BE USED TO PROTECT AIRCRAFT IN ACTIVE RON POSITION FROM FOD.

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 Houston, Texas 77079
 (832) 494-3800
 TPBE Firm Registration No. F-10161

REVISIONS

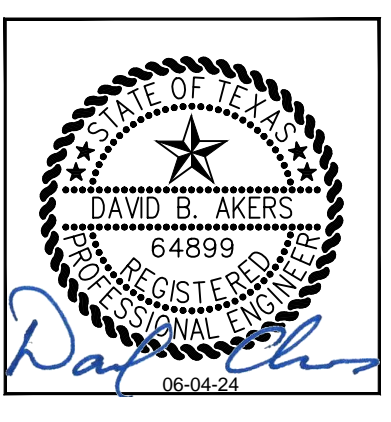
NO.	DESCRIPTION	DATE	BY



TERMINAL A NORTH RON PARKING
 AT GEORGE BUSH INTERCONTINENTAL AIRPORT
**PHASING PLAN - PHASE 1E -
 PAVEMENT MARKING**
 T.I.P. No. 23-311-IAH B.S.G. No. 2023-356-IAH

ISSUED FOR PERMIT

PROJECT MGR:	DA
DESIGNER:	ZJ
DRAWN BY:	ZJ
CHECKED BY:	DB
SCALE:	1" = 100'
DATE:	06/03/2024



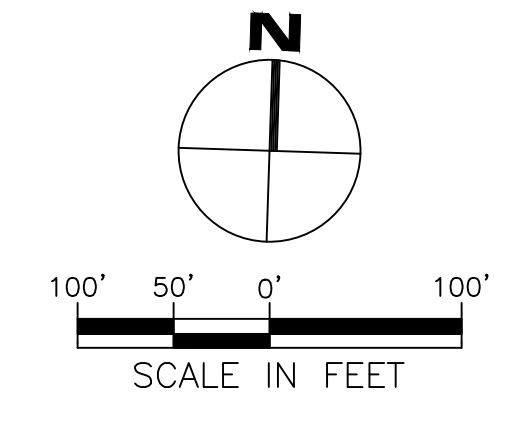
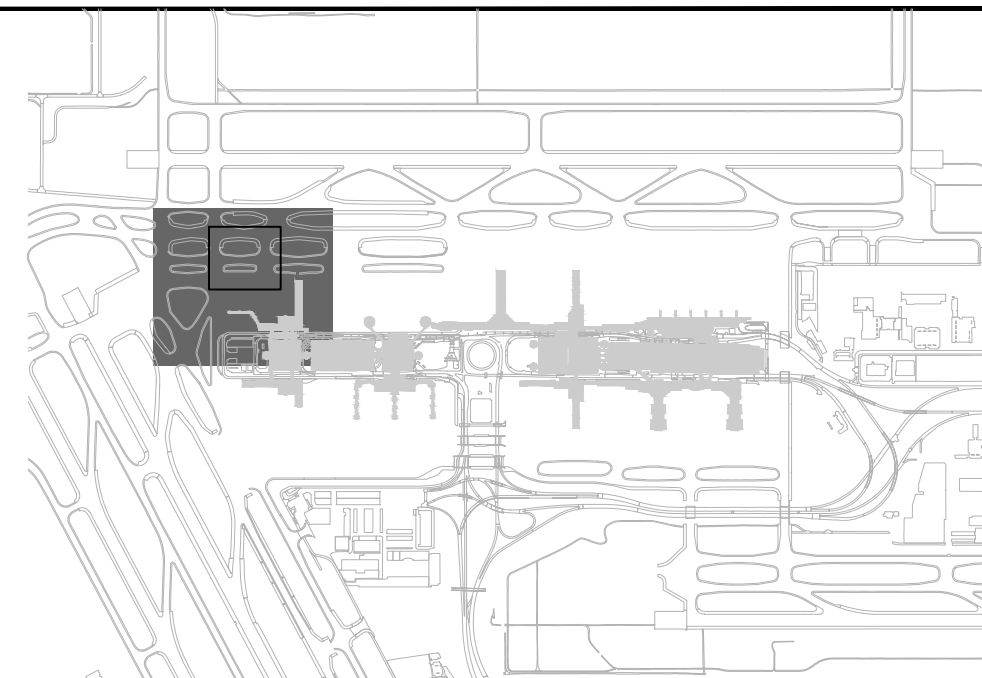
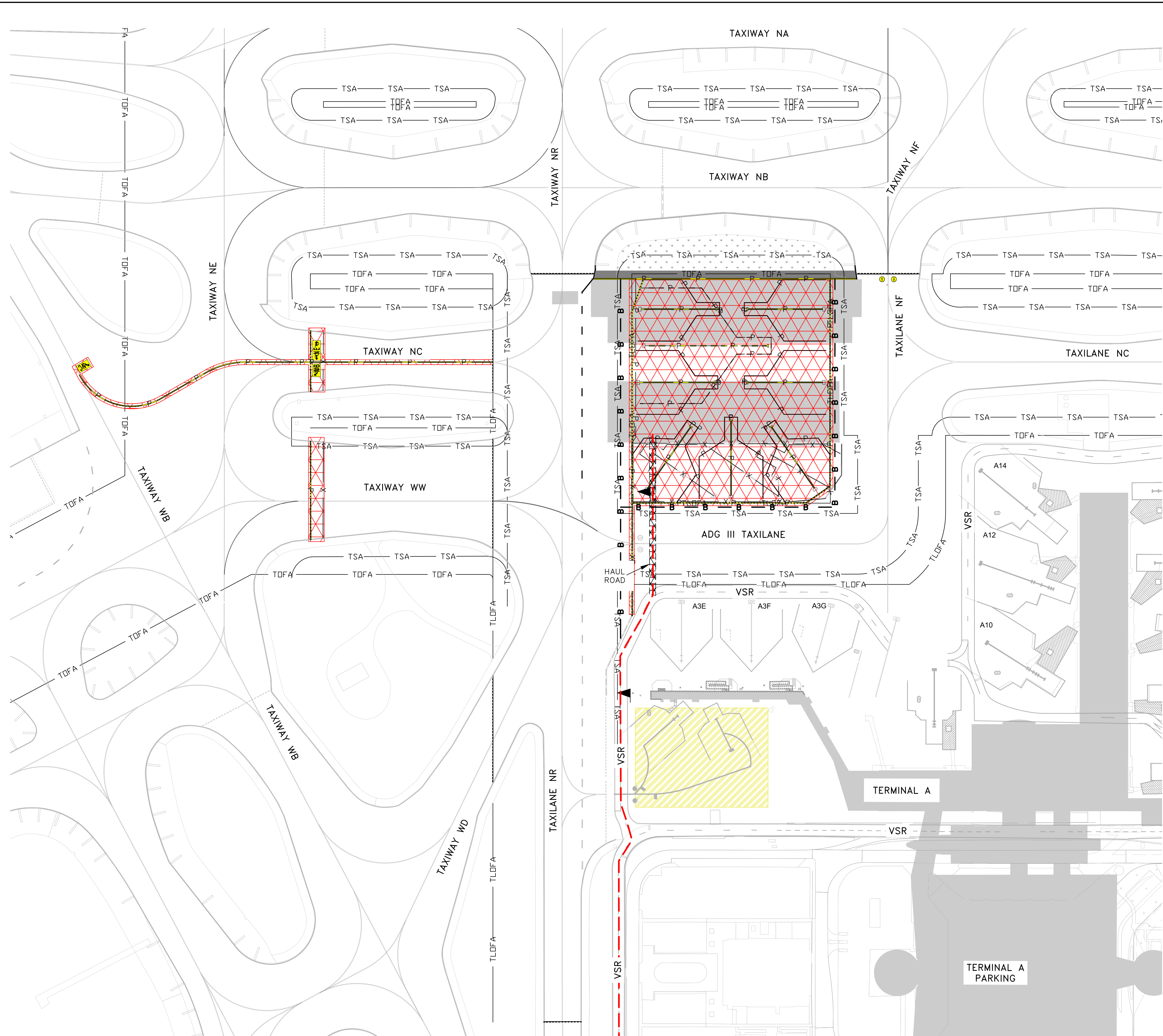
DEPARTMENT OF AVIATION

APPROVED BY:	DATE:

HOUSTON AIRPORT SYSTEMS
 AUTHORIZED REPRESENTATIVE

PROJECT NO.	PN 973
C.I.P. NO.	A-000713
H.A.S. NO.	
SHEET NO.	

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LEGEND

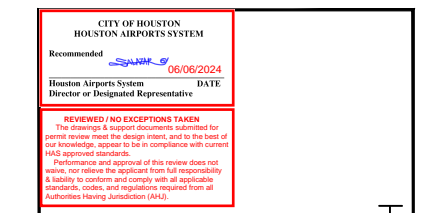
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- COMPLETED PAVEMENT
- TOFA — TAXIWAY OBJECT FREE AREA
- TLOFA — TAXILANE OBJECT FREE AREA
- TSA — TAXIWAY SAFETY AREA
- B — LOW-PROFILE BARRICADE
- X — MARKING REMOVAL
- P — PERMANENT MARKING INSTALLED THIS PHASE
- HAUL ROUTE
- FLAGGER

NOTES:

1. WORK OCCURRING IN PHASE 2 SHALL OCCUR DURING NIGHTTIME HOURS, OR ON A PULLBACK BASIS, SO AS NOT TO CONFLICT WITH THE AIRPORT OPERATIONS.
2. CONTRACTOR TO COORDINATE TAXIWAY CLOSURES, BARRICADE PLACEMENT AND/OR TEMPORARY MARKING REMOVALS WITH HAS OAR BEFORE CONSTRUCTION BEGINS.
3. WORK ACTIVITIES DURING PHASE 2 INCLUDE:
 - MAINTENANCE OF TRAFFIC
 - PAVEMENT MARKING REMOVAL
 - PAVEMENT MARKING INSTALLATION

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 (832) 494-3800
 TBPE Firm Registration No. F-10161

REVISIONS		
NO.	DESCRIPTION	DATE



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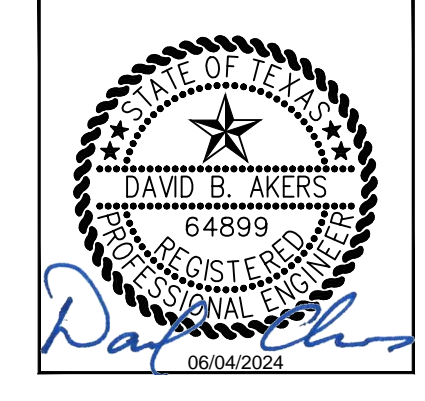
PROJECT MGR: DA
 DESIGNER: ZJ
 DRAWN BY: ZJ
 CHECKED BY: BS
 SCALE: 1" = 100'
 DATE: 06/03/2024

TERMINAL A NORTH RON PARKING
 AT GEORGE BUSH INTERCONTINENTAL AIRPORT

PHASING PLAN - PHASE 2

T.I.P. No. 23-311-IAH B.S.G. No. 2023-356-IAH

ISSUED FOR PERMIT	
PROJECT MGR:	DA
DESIGNER:	ZJ
DRAWN BY:	ZJ
CHECKED BY:	BS
SCALE:	1" = 100'
DATE:	06/03/2024

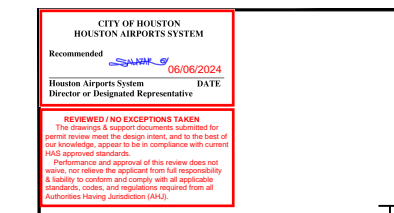


DEPARTMENT OF AVIATION	
APPROVED BY:	DATE:

HOUSTON AIRPORT SYSTEMS AUTHORIZED REPRESENTATIVE
PROJECT NO. PN 973
C.I.P. NO. A-000713
H.A.S. NO.
SHEET NO.

REVISIONS

NO.	DESCRIPTION	DATE	BY



TERMINAL A NORTH RON PARKING
 AT GEORGE BUSH INTERCONTINENTAL AIRPORT
EXISTING CONDITIONS PLAN
 T.I.P. No. 23-311-IAH B.S.G. No. 2023-356-IAH

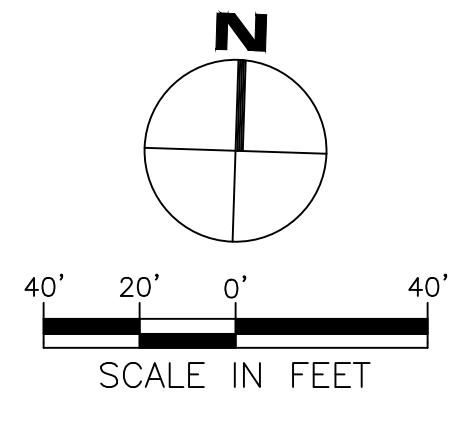
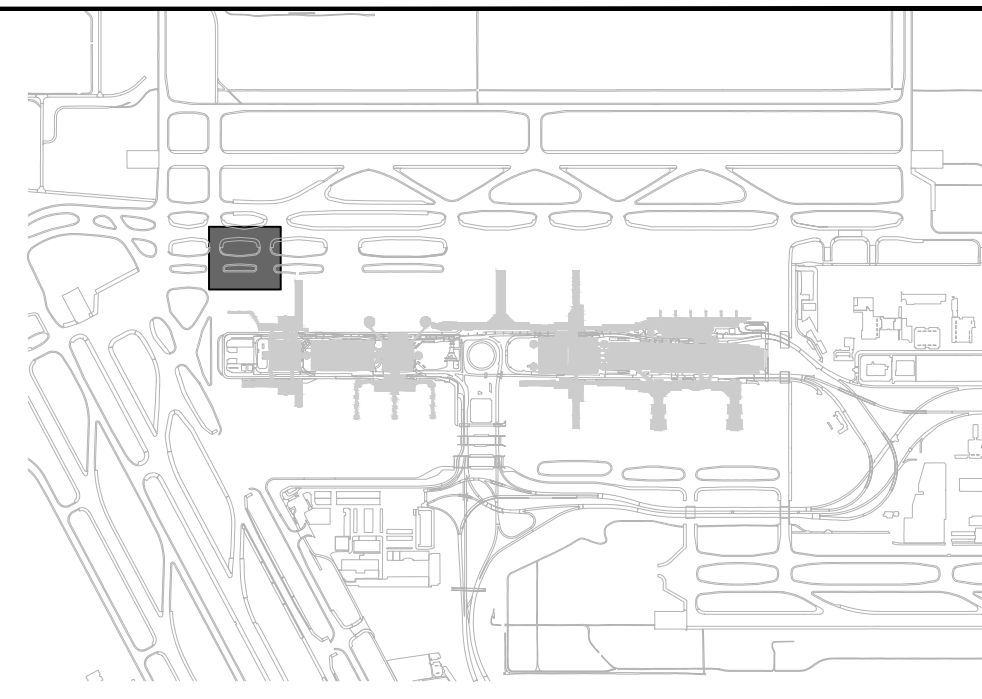
ISSUED FOR PERMIT

PROJECT MGR:	DA
DESIGNER:	JK
DRAWN BY:	JK
CHECKED BY:	BS
SCALE:	1" = 40'
DATE:	06/03/2024

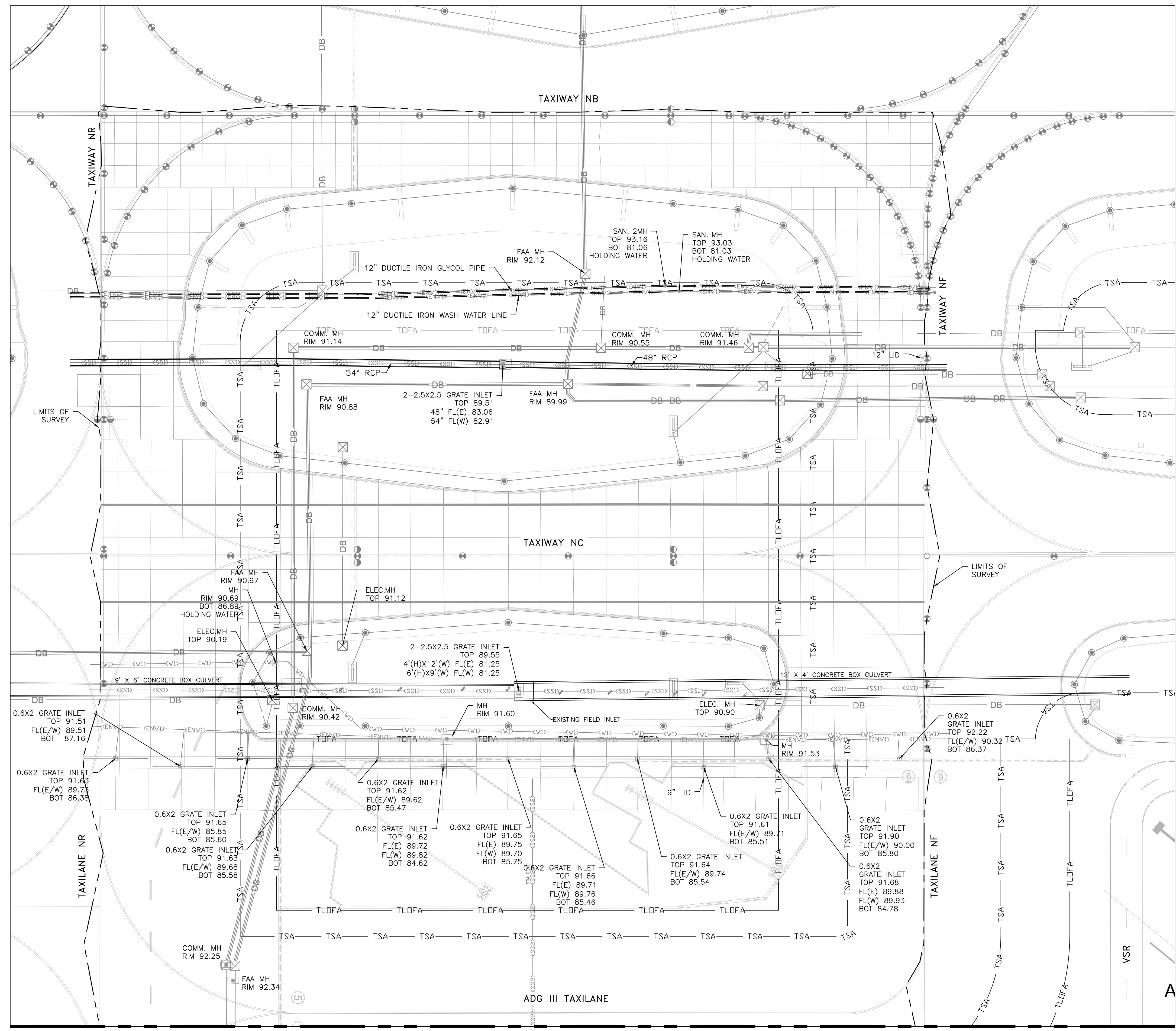
DEPARTMENT OF AVIATION
 APPROVED BY: _____ DATE: _____

HOUSTON AIRPORT SYSTEMS
 AUTHORIZED REPRESENTATIVE

PROJECT NO.	PN 973
C.I.P. NO.	A-000713
H.A.S. NO.	
SHEET NO.	



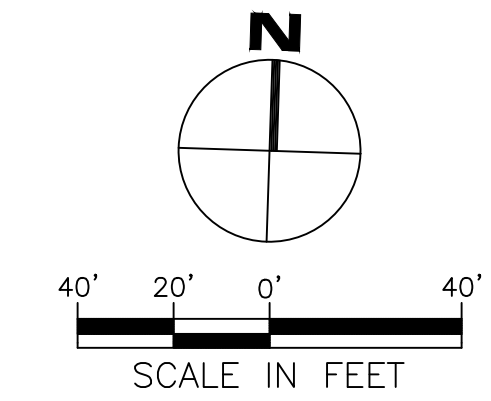
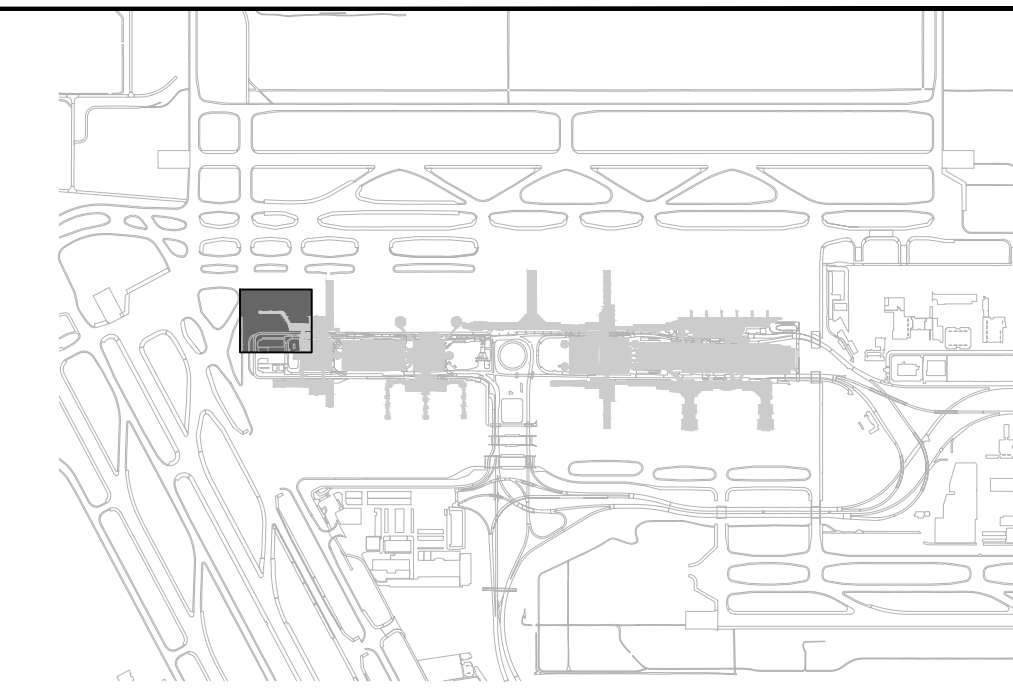
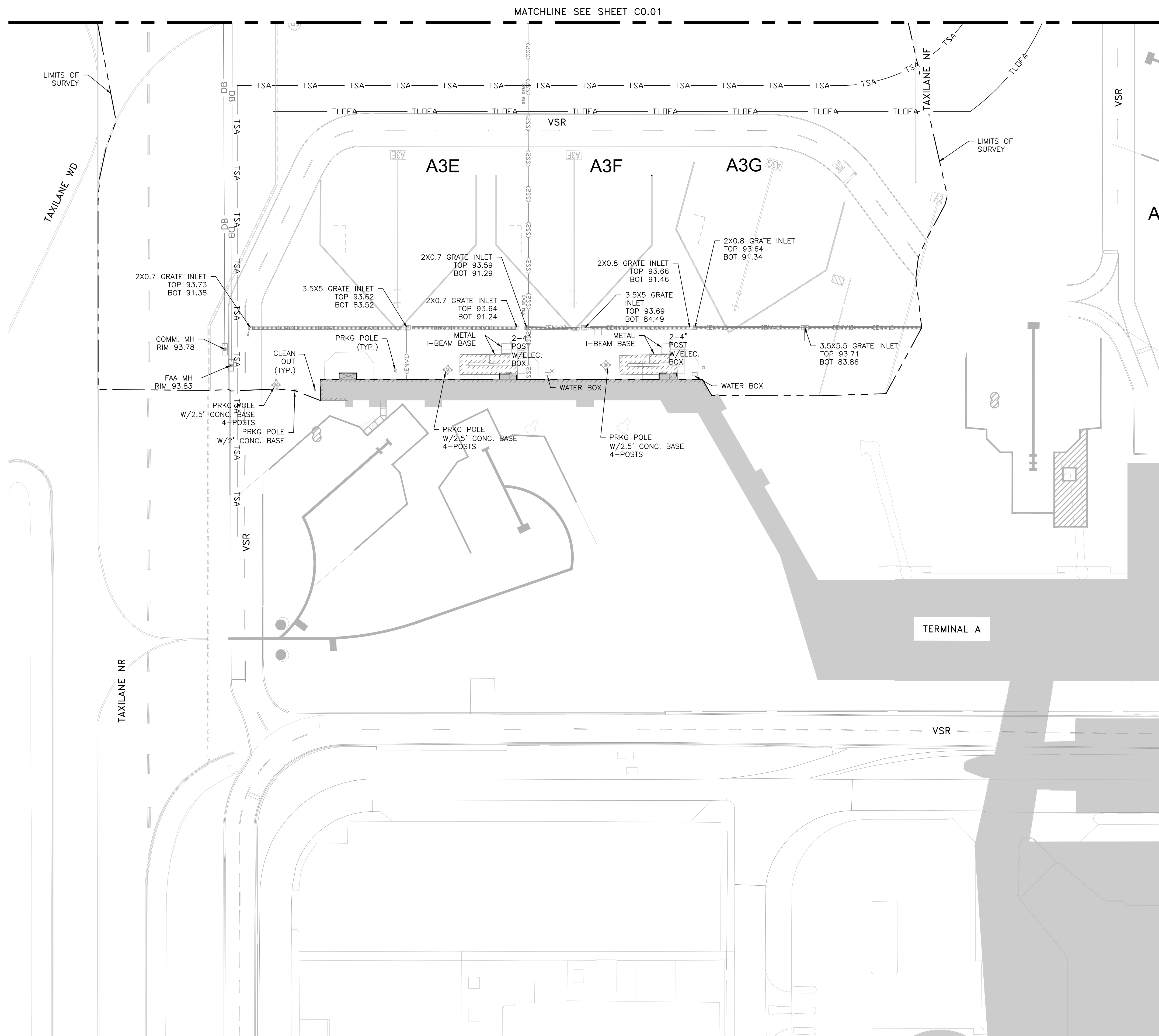
- LEGEND**
- LIMITS OF SURVEY
 - TOFA TAXIWAY OBJECT FREE AREA
 - TLOFA TAXILANE OBJECT FREE AREA
 - (SS1) (SS2) EXISTING STORM SEWER
 - (ENV1) EXISTING GLYCOL
 - DB EXISTING DUCT BANK
 - ⊙ EXISTING TAXIWAY CENTER LIGHT
 - ⊙ EXISTING TAXIWAY EDGE LIGHT
 - ⊙ EXISTING TAXIWAY CLEARANCE BAR LIGHT
 - ⊠ EXISTING ELECTRICAL MANHOLE OR HANDHOLE
 - ⊞ EXISTING AIRFIELD GUIDANCE SIGN
 - ⊞ EXISTING INLET
 - EXISTING MANHOLE



MATCHLINE SEE SHEET C0.02

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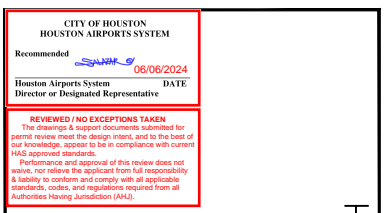


LEGEND

- LIMITS OF SURVEY
- TLOFA TAXIWAY OBJECT FREE AREA
- TLDOFA TAXILANE OBJECT FREE AREA
- (SS2) EXISTING STORM SEWER
- (ENV1) EXISTING GLYCOL
- DB EXISTING DUCT BANK
- ⊙ EXISTING TAXIWAY CENTER LIGHT
- ⊙ EXISTING TAXIWAY EDGE LIGHT
- ⊙ EXISTING TAXIWAY CLEARANCE BAR LIGHT
- ⊠ EXISTING ELECTRICAL MANHOLE OR HANDHOLE
- ⊠ EXISTING AIRFIELD GUIDANCE SIGN
- ⊠ EXISTING INLET
- EXISTING MANHOLE

IEA
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 Suite 3425
 Houston, Texas 77079
 (832) 494-3800
 TBPE Firm Registration No. F-10161

REVISIONS			
NO.	DESCRIPTION	DATE	BY



ISSUED FOR PERMIT

PROJECT MGR: DA
 DESIGNER: IK
 DRAWN BY: IK
 CHECKED BY: BS
 SCALE: 1" = 40'
 DATE: 06/03/2024

PROJECT NO. PN 973
 C.I.P. NO. A-000713
 H.A.S. NO.
 SHEET NO.

TERMINAL A NORTH RON PARKING
 AT GEORGE BUSH INTERCONTINENTAL AIRPORT

EXISTING CONDITIONS PLAN

T.I.P. No. 23-311-IAH B.S.G. No. 2023-356-IAH

DEPARTMENT OF AVIATION
 APPROVED BY: DATE:

HOUSTON AIRPORT SYSTEMS
 AUTHORIZED REPRESENTATIVE



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 Suite 3425
 Houston, Texas 77079
 (832) 494-3800
 TBPE Firm Registration No. F-10161

NO.	DESCRIPTION	DATE	BY

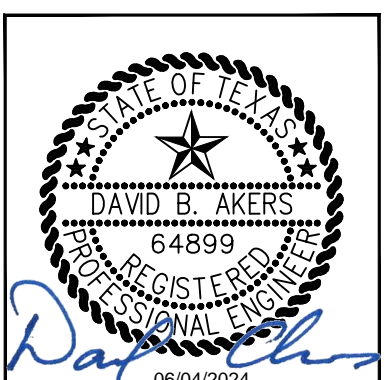


TERMINAL A NORTH IRON PARKING
 AT GEORGE BUSH INTERCONTINENTAL AIRPORT

CIVIL DEMOLITION PLAN

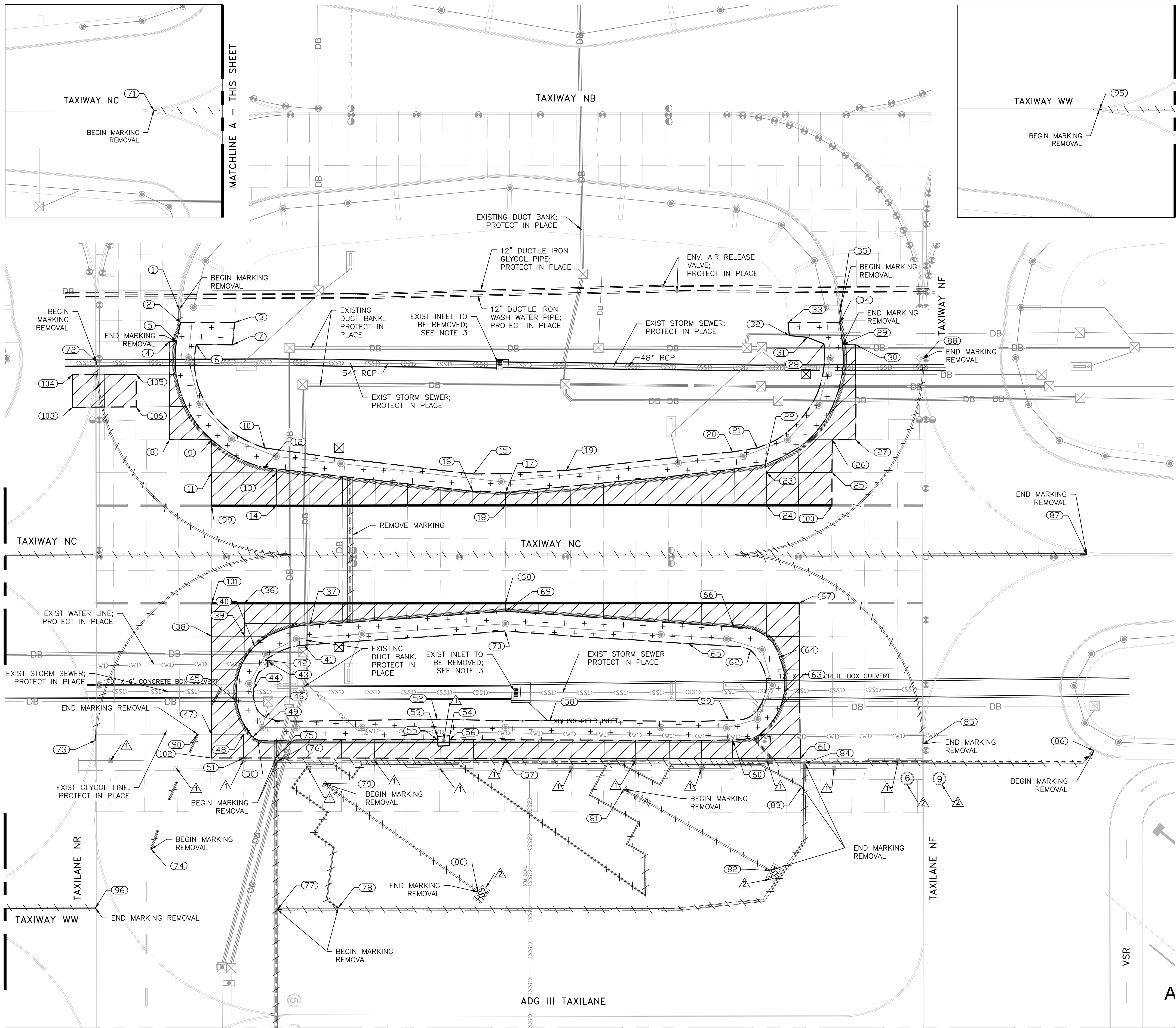
T.I.P. No. 23-311-IAH B.S.G. No. 2023-356-IAH

ISSUED FOR PERMIT	
PROJECT MGR:	DA
DESIGNER:	ZJ
DRAWN BY:	ZJ
CHECKED BY:	BS
SCALE:	1" = 40'
DATE:	06/03/2024



DEPARTMENT OF AVIATION	
APPROVED BY:	DATE:
HOUSTON AIRPORT SYSTEMS AUTHORIZED REPRESENTATIVE	

PROJECT NO.	PN 973
C.I.P. NO.	A-000713
H.A.S. NO.	
SHEET NO.	

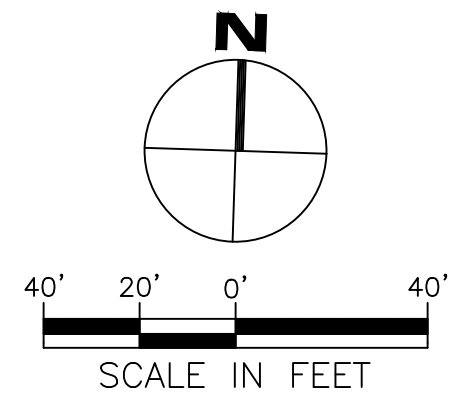


MATCHLINE B - THIS SHEET

MATCHLINE A - THIS SHEET

MATCHLINE A - THIS SHEET

MATCHLINE B - THIS SHEET



LEGEND

- CONCRETE PAVEMENT DEMO
- ASPHALT PAVEMENT DEMO
- DEMOLITION LIMIT LOCATION POINT
- PAVEMENT MARKING REMOVAL
- EXISTING TAXIWAY CENTER LIGHT
- EXISTING TAXIWAY EDGE LIGHT
- EXISTING TAXIWAY CLEARANCE BAR LIGHT
- EXISTING ELECTRICAL HANDHOLE
- EXISTING AIRFIELD GUIDANCE SIGN
- EXISTING INLET
- EXISTING MANHOLE

NOTES:

1. CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHEN WORKING OVER OR NEAR THE EXISTING FAA DUCT BANK. THE CONTRACTOR SHALL NOT ALLOW EQUIPMENT HIGH WHEEL LOADS ON OR IN THE VICINITY OF DUCT BANKS. USE HAND DIGGING METHODS AS REQUIRED TO PROTECT THE FACILITIES FROM DAMAGE.
2. SEE SHEET ED01.01 FOR AIRFIELD ELECTRICAL AND COMMUNICATION DEMOLITION.
3. REMOVE EXISTING INLETS AND CONVERT BOX TO MANHOLE.
4. ALL PAVEMENT TO BE REMOVED SHALL BE SAWCUT TO THE FULL DEPTH OF PAVEMENT BEFORE BEING DEMOLISHED.
5. THE REMOVAL AND DISPOSAL OF ITEMS WITHIN THE PAVEMENT, SUCH AS DOWELS AND REBAR, SHALL NOT BE PAID FOR SEPARATELY BUT INCIDENTAL TO ITEM P-101.
6. SEE SHEET CD.04 FOR REMOVAL COORDINATE POINTS.

KEYED NOTE:

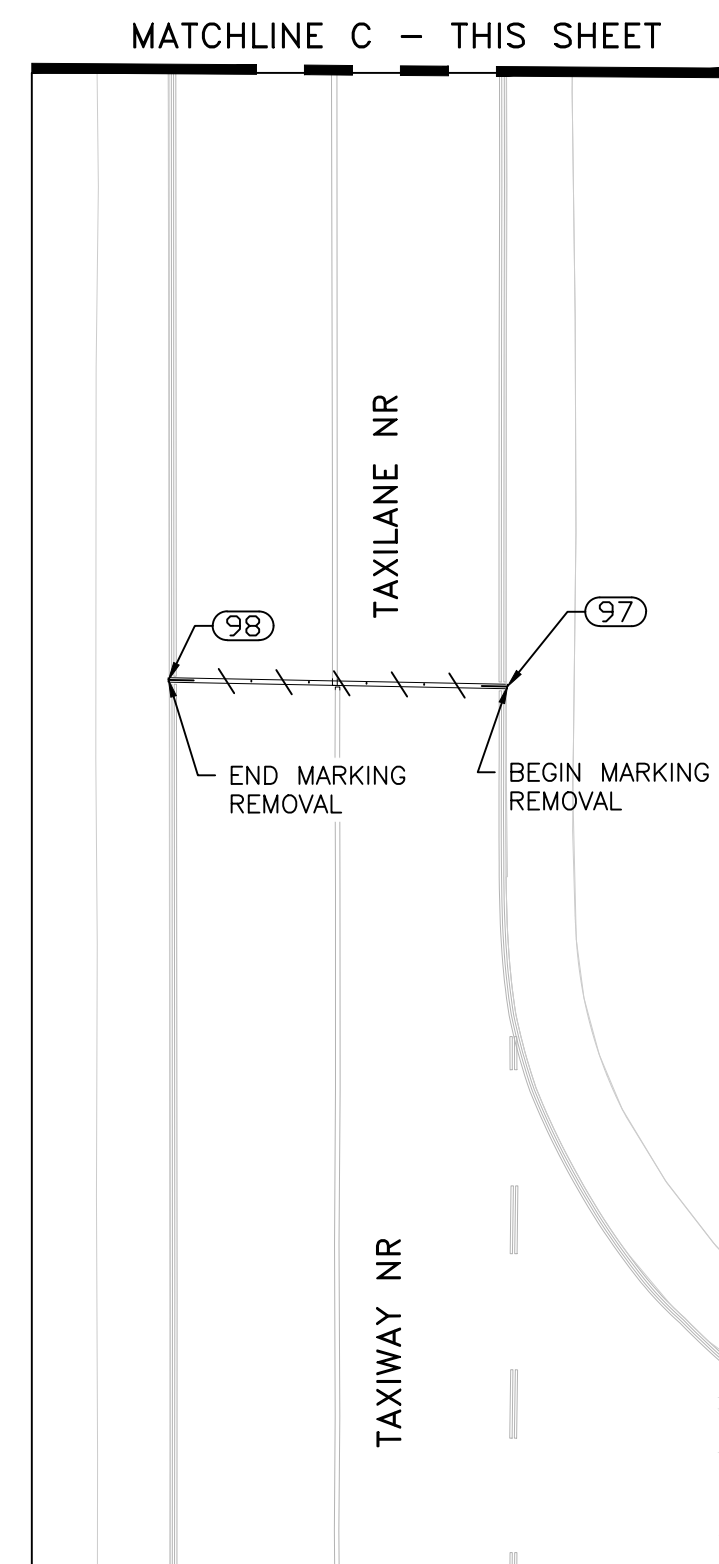
- PROTECT SLOTTED DRAIN, INLET, AND MANHOLE FOR GLYCOL LINE. DO NOT DAMAGE CONCRETE PAVEMENT PANEL CONNECTED TO THE SLOTTED DRAIN.
- REMOVE PAVEMENT MARKING IN ITS ENTIRETY.

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MATCHLINE SEE SHEET CD.02

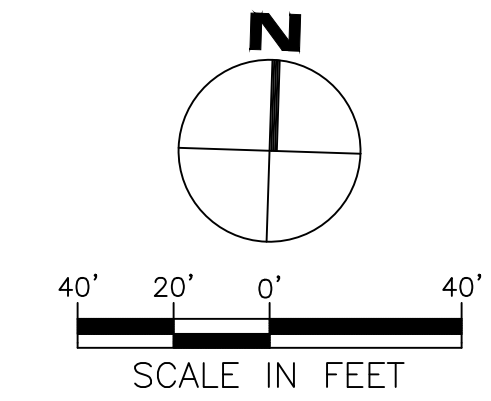
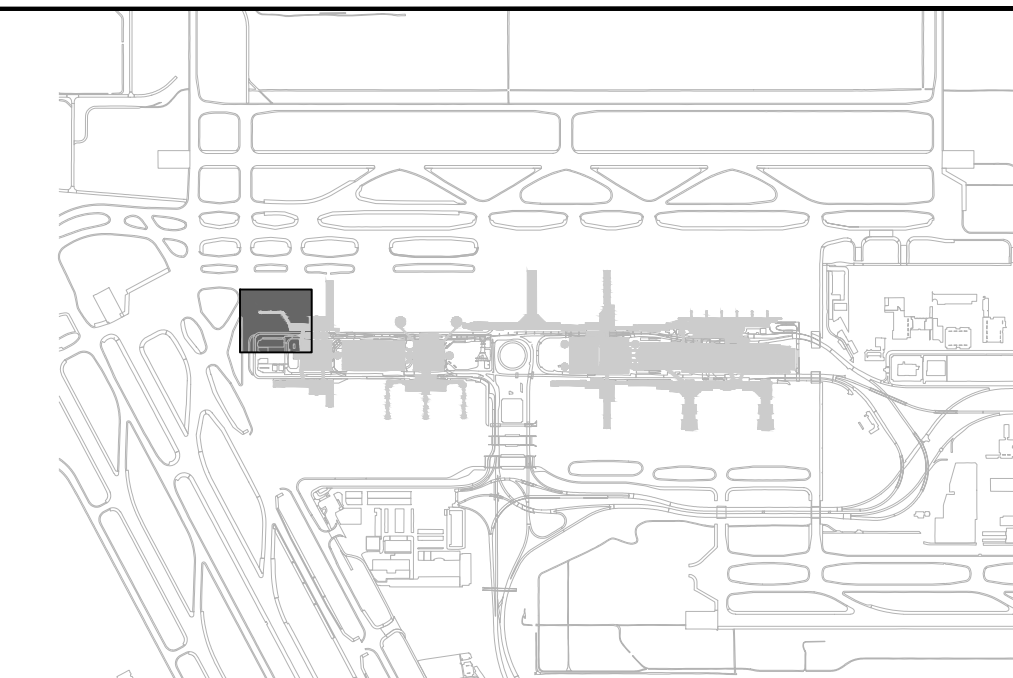
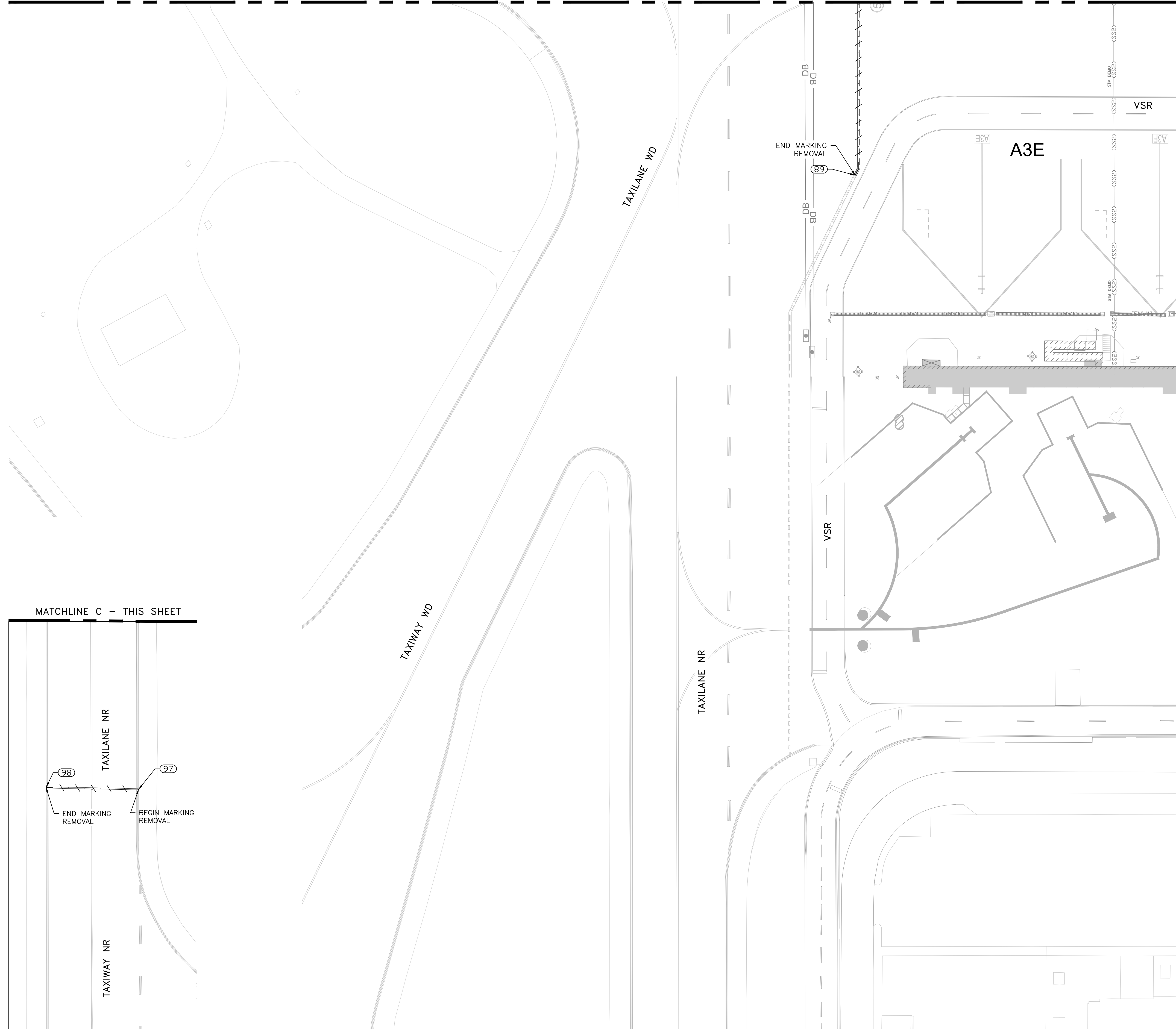
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MATCHLINE SEE SHEET C0.01



MATCHLINE C - THIS SHEET

MATCHLINE C - THIS SHEET



LEGEND

- - - - - PAVEMENT MARKING REMOVAL
- ⊙ EXISTING TAXIWAY CENTER LIGHT
- ⊙ EXISTING TAXIWAY EDGE LIGHT
- ⊙ EXISTING TAXIWAY CLEARANCE BAR LIGHT
- ⊠ EXISTING ELECTRICAL HANDHOLE
- ▭ EXISTING AIRFIELD GUIDANCE SIGN
- ▭ EXISTING INLET
- EXISTING MANHOLE

NOTES:

1. SEE SHEET ED01.01 FOR AIRFIELD ELECTRICAL AND COMMUNICATION DEMOLITION.
2. SEE SHEET CD.04 FOR REMOVAL COORDINATE POINTS.

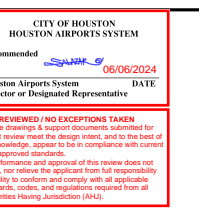
KEYED NOTE:

- ⚠ PROTECT SLOTTED DRAIN, INLET, AND MANHOLE FOR GLYCOL LINE. DO NOT DAMAGE CONCRETE PAVEMENT PANEL CONNECTED TO THE SLOTTED DRAIN.
- ⚠ REMOVE PAVEMENT MARKING IN ITS ENTIRETY.



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REVISIONS			
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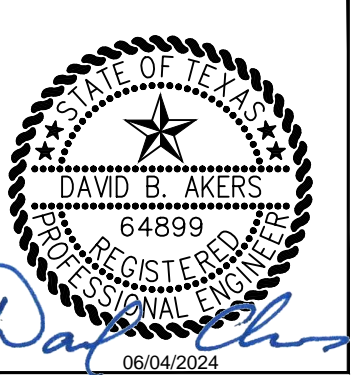


TERMINAL A NORTH IRON PARKING
 AT GEORGE BUSH INTERCONTINENTAL AIRPORT

CIVIL DEMOLITION PLAN

T.I.P. No. 23-311-IAH B.S.G. No. 2023-356-IAH

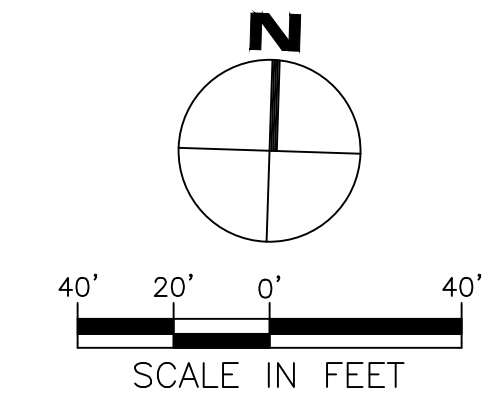
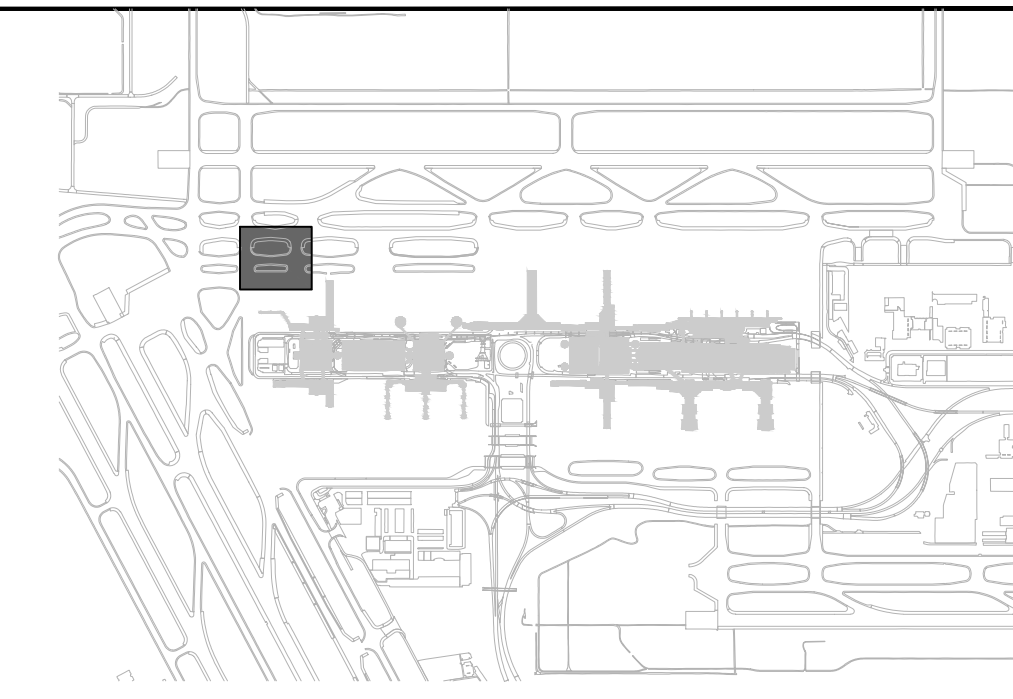
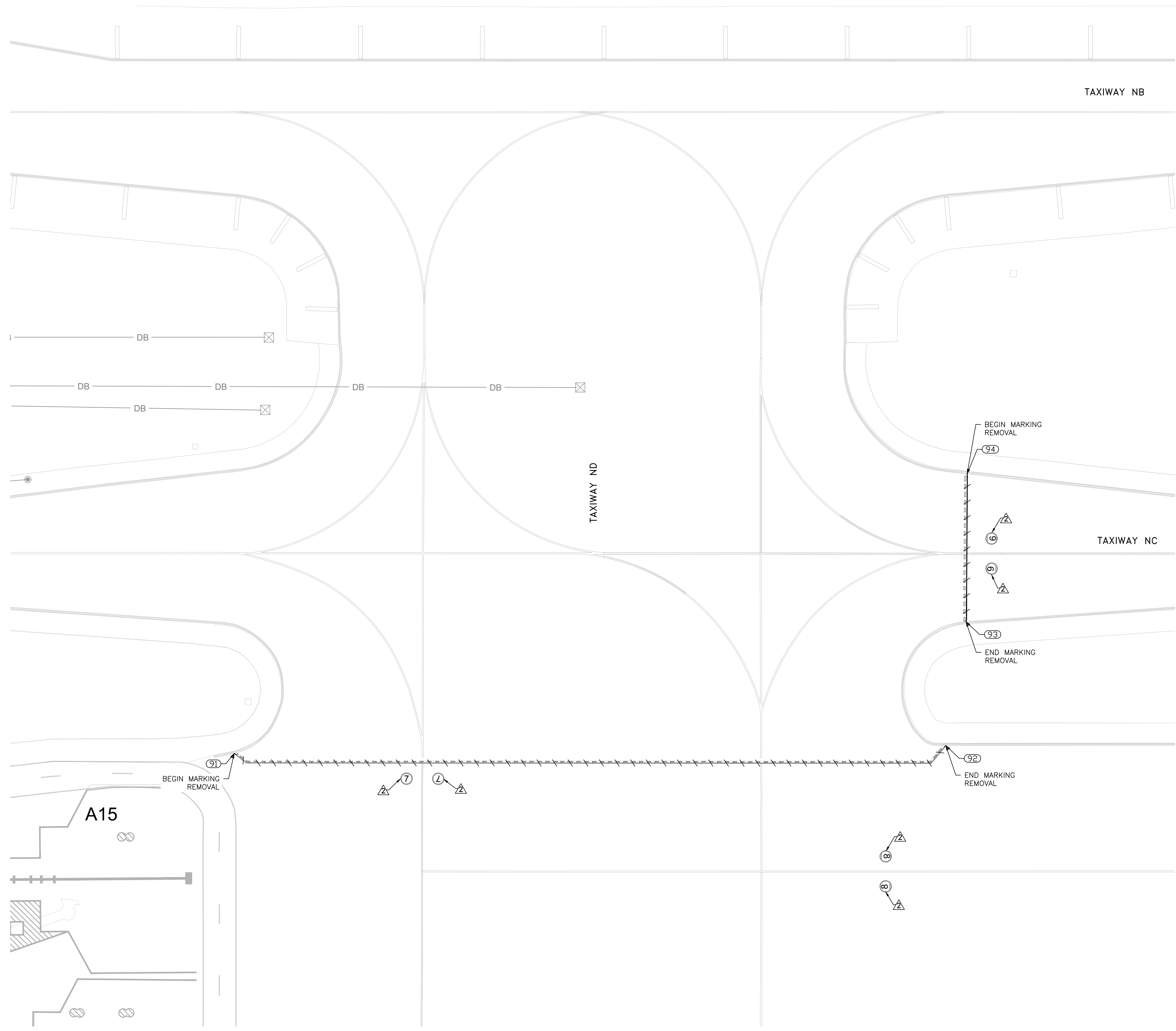
ISSUED FOR PERMIT	
PROJECT MGR:	DA
DESIGNER:	ZJ
DRAWN BY:	ZJ
CHECKED BY:	DB
SCALE:	1" = 40'
DATE:	06/03/2024



DEPARTMENT OF AVIATION	
APPROVED BY:	DATE:

PROJECT NO.	PN 973
C.I.P. NO.	A-000713
H.A.S. NO.	
SHEET NO.	

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LEGEND

- CONCRETE PAVEMENT DEMO
- ASPHALT PAVEMENT DEMO
- DEMOLITION LIMIT LOCATION POINT
- PAVEMENT MARKING REMOVAL
- EXISTING TAXIWAY CENTER LIGHT
- EXISTING TAXIWAY EDGE LIGHT
- EXISTING TAXIWAY CLEARANCE BAR LIGHT
- EXISTING ELECTRICAL HANDHOLE
- EXISTING AIRFIELD GUIDANCE SIGN
- EXISTING INLET
- EXISTING MANHOLE

NOTES:

1. SEE SHEET ED01.01 FOR AIRFIELD ELECTRICAL AND COMMUNICATION DEMOLITION.
2. SEE SHEET CD.04 FOR REMOVAL COORDINATE POINTS.

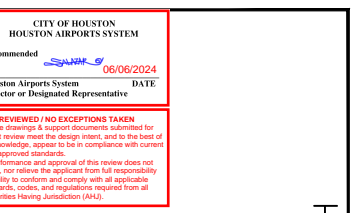
KEYED NOTE:

- PROTECT TRENCH DRAIN, INLET, AND MANHOLE FOR GLYCOL LINE. DO NOT DAMAGE CONCRETE PAVEMENT PANEL CONNECTED TO THE TRENCH DRAIN.
- REMOVE PAVEMENT MARKING IN ITS ENTIRETY.

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REVISIONS

NO.	DESCRIPTION	DATE	BY



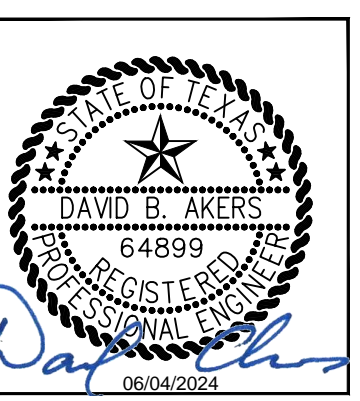
TERMINAL A NORTH IRON PARKING
 AT GEORGE BUSH INTERCONTINENTAL AIRPORT

CIVIL DEMOLITION PLAN

T.I.P. No. 23-311-IAH B.S.G. No. 2023-356-IAH

ISSUED FOR PERMIT

PROJECT MGR:	DA
DESIGNER:	ZJ
DRAWN BY:	ZJ
CHECKED BY:	BS
SCALE:	1" = 40'
DATE:	06/03/2024



DEPARTMENT OF AVIATION	
APPROVED BY:	DATE:
HOUSTON AIRPORT SYSTEMS AUTHORIZED REPRESENTATIVE	

PROJECT NO.	PN 973
C.I.P. NO.	A-000713
H.A.S. NO.	
SHEET NO.	

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DEMOLITION POINT TABLE	
POINT #	NORTHING/EASTING
1	N:13,926,755.51 E:3,123,194.26
2	N:13,926,745.55 E:3,123,195.59
3	N:13,926,746.87 E:3,123,236.85
4	N:13,926,730.71 E:3,123,187.37
5	N:13,926,730.91 E:3,123,192.92
6	N:13,926,729.22 E:3,123,208.20
7	N:13,926,729.74 E:3,123,235.96
8	N:13,926,655.62 E:3,123,189.98
9	N:13,926,656.67 E:3,123,222.31
10	N:13,926,651.64 E:3,123,263.04
11	N:13,926,631.40 E:3,123,223.08
12	N:13,926,636.68 E:3,123,263.41
13	N:13,926,632.88 E:3,123,272.71
14	N:13,926,608.01 E:3,123,273.62
15	N:13,926,636.83 E:3,123,423.44
16	N:13,926,623.54 E:3,123,423.42
17	N:13,926,623.62 E:3,123,448.43
18	N:13,926,613.62 E:3,123,448.79
19	N:13,926,641.85 E:3,123,494.35
20	N:13,926,660.09 E:3,123,621.04
21	N:13,926,663.82 E:3,123,639.85
22	N:13,926,651.17 E:3,123,646.30
23	N:13,926,645.19 E:3,123,647.65
24	N:13,926,620.06 E:3,123,648.51
25	N:13,926,646.82 E:3,123,697.65
26	N:13,926,671.85 E:3,123,697.04
27	N:13,926,672.51 E:3,123,714.77
28	N:13,926,745.13 E:3,123,688.32
29	N:13,926,744.92 E:3,123,702.73
30	N:13,926,745.23 E:3,123,712.58
31	N:13,926,749.72 E:3,123,675.41
32	N:13,926,750.56 E:3,123,661.64
33	N:13,926,760.50 E:3,123,660.34

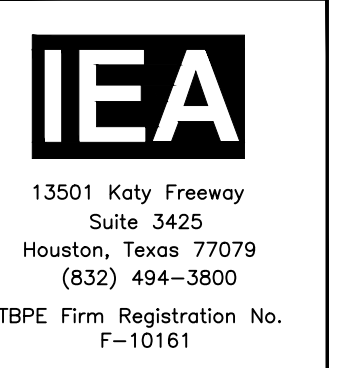
DEMOLITION POINT TABLE	
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34	N:13,926,761.77 E:3,123,699.89
35	N:13,926,771.78 E:3,123,700.00
36	N:13,926,531.92 E:3,123,251.15
37	N:13,926,517.06 E:3,123,301.93
38	N:13,926,506.22 E:3,123,226.98
39	N:13,926,507.01 E:3,123,252.48
40	N:13,926,499.42 E:3,123,260.35
41	N:13,926,501.62 E:3,123,298.13
42	N:13,926,489.26 E:3,123,268.79
43	N:13,926,488.27 E:3,123,270.63
44	N:13,926,466.83 E:3,123,260.47
45	N:13,926,457.27 E:3,123,247.79
46	N:13,926,445.51 E:3,123,270.35
47	N:13,926,431.17 E:3,123,229.38
48	N:13,926,432.00 E:3,123,253.84
49	N:13,926,430.10 E:3,123,261.06
50	N:13,926,427.79 E:3,123,265.02
51	N:13,926,413.78 E:3,123,254.52
52	N:13,926,448.17 E:3,123,401.55
53	N:13,926,434.99 E:3,123,402.46
54	N:13,926,435.86 E:3,123,411.72
55	N:13,926,432.53 E:3,123,402.40
56	N:13,926,432.80 E:3,123,411.91
57	N:13,926,420.02 E:3,123,454.48
58	N:13,926,450.00 E:3,123,488.12
59	N:13,926,454.53 E:3,123,624.64
60	N:13,926,439.60 E:3,123,628.28
61	N:13,926,427.14 E:3,123,680.67
62	N:13,926,508.84 E:3,123,639.70
63	N:13,926,477.66 E:3,123,666.63
64	N:13,926,503.97 E:3,123,662.00
65	N:13,926,512.28 E:3,123,592.03
66	N:13,926,526.12 E:3,123,626.28

DEMOLITION POINT TABLE	
POINT #	NORTHING/EASTING
67	N:13,926,546.01 E:3,123,675.74
68	N:13,926,538.68 E:3,123,451.00
69	N:13,926,532.59 E:3,123,451.22
70	N:13,926,517.46 E:3,123,451.35
71	N:13,926,561.69 E:3,123,009.21
72	N:13,926,713.52 E:3,123,132.15
73	N:13,926,423.50 E:3,123,140.64
74	N:13,926,341.76 E:3,123,186.07
75	N:13,926,414.57 E:3,123,279.28
76	N:13,926,412.14 E:3,123,280.43
77	N:13,926,298.56 E:3,123,284.10
78	N:13,926,301.32 E:3,123,330.66
79	N:13,926,396.36 E:3,123,316.29
80	N:13,926,317.23 E:3,123,437.05
81	N:13,926,399.21 E:3,123,546.11
82	N:13,926,340.69 E:3,123,659.98
83	N:13,926,405.51 E:3,123,682.22
84	N:13,926,423.54 E:3,123,684.16
85	N:13,926,441.21 E:3,123,774.05
86	N:13,926,440.20 E:3,123,905.01
87	N:13,926,590.42 E:3,123,894.40
88	N:13,926,736.40 E:3,123,764.95
89	N:13,926,076.71 E:3,123,287.55
90	N:13,926,430.85 E:3,123,218.87
91	N:13,926,455.07 E:3,124,469.03
92	N:13,926,478.77 E:3,125,015.62
93	N:13,926,574.47 E:3,125,028.04
94	N:13,926,687.93 E:3,125,025.32
95	N:13,926,291.43 E:3,123,011.70
96	N:13,926,295.39 E:3,123,144.87
97	N:13,925,284.69 E:3,123,215.66
98	N:13,925,283.74 E:3,123,141.70
99	N:13,926,606.17 E:3,123,223.77

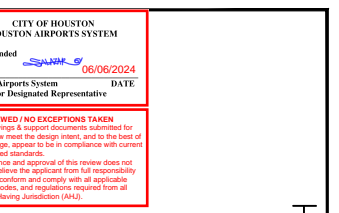
DEMOLITION POINT TABLE	
POINT #	NORTHING/EASTING
100	N:13,926,621.65 E:3,123,698.46
101	N:13,926,531.54 E:3,123,226.30
102	N:13,926,412.99 E:3,123,229.92
103	N:13,926,678.09 E:3,123,115.06
104	N:13,926,702.83 E:3,123,114.12
105	N:13,926,704.66 E:3,123,162.85
106	N:13,926,679.88 E:3,123,163.79



HOUSTON AIRPORT SYSTEM
GEORGE BUSH INTERCONTINENTAL
AIRPORT HOUSTON, TEXAS



REVISIONS		
NO.	DESCRIPTION	DATE

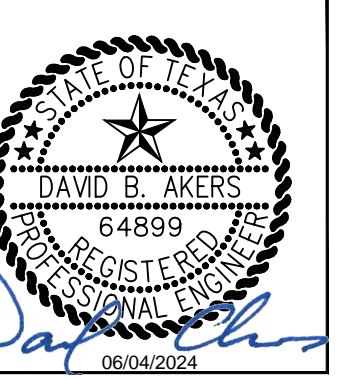


TERMINAL A NORTH IRON PARKING
AT GEORGE BUSH INTERCONTINENTAL AIRPORT

CIVIL DEMOLITION POINT TABLES

T.I.P. No. 23-311-IAH B.S.G. No. 2023-356-IAH

ISSUED FOR PERMIT	
PROJECT MGR:	DA
DESIGNER:	ZJ
DRAWN BY:	ZJ
CHECKED BY:	BS
SCALE:	NTS
DATE:	06/03/2024



DEPARTMENT OF AVIATION	
APPROVED BY:	DATE:

HOUSTON AIRPORT SYSTEMS
AUTHORIZED REPRESENTATIVE

PROJECT NO.
PN 973

C.I.P. NO.
A-000713

H.A.S. NO.

SHEET NO.

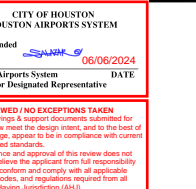


HOUSTON AIRPORT SYSTEM
 GEORGE BUSH INTERCONTINENTAL
 AIRPORT HOUSTON, TEXAS



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 Houston, Texas 77079
 (832) 494-3800
 TBPE Firm Registration No.
 F-10161

REVISIONS		
NO.	DESCRIPTION	DATE

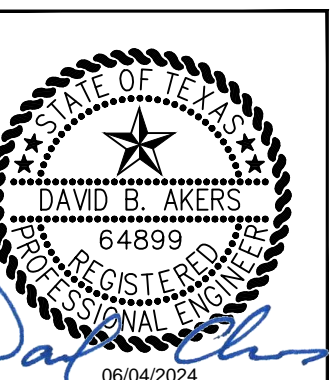


TERMINAL A NORTH IRON PARKING
 AT GEORGE BUSH INTERCONTINENTAL AIRPORT

PAVING PLAN

T.I.P. No. 23-311-IAH B.S.G. No. 2023-356-IAH

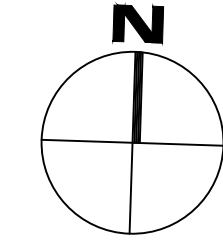
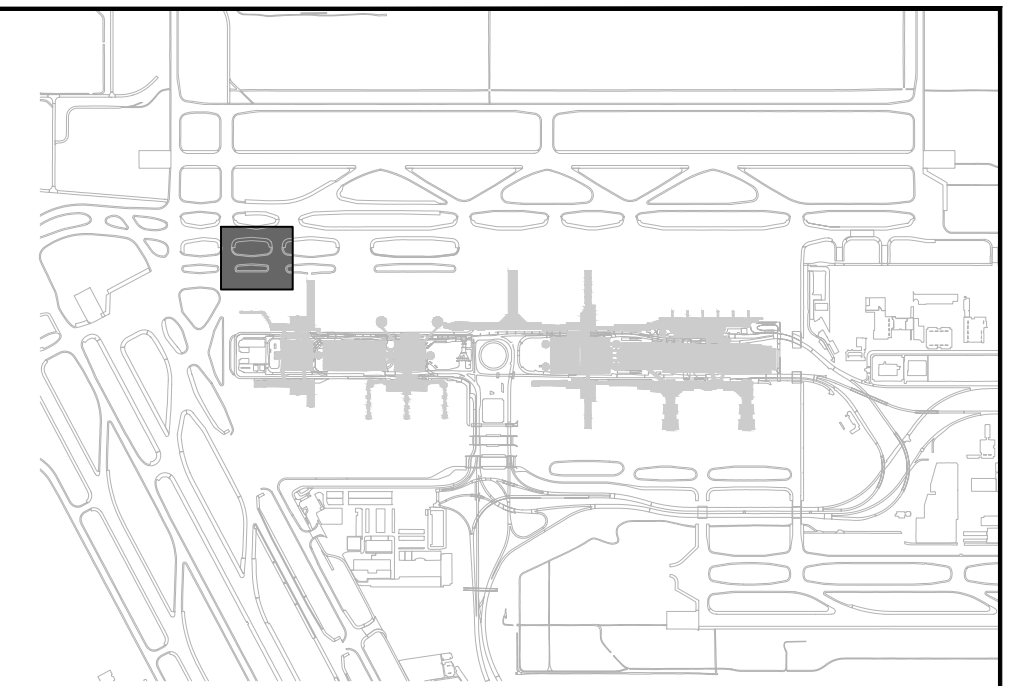
ISSUED FOR PERMIT	
PROJECT MGR:	DA
DESIGNER:	JK
DRAWN BY:	JK
CHECKED BY:	BS
SCALE:	1" = 40'
DATE:	06/03/2024



DEPARTMENT OF AVIATION	
APPROVED BY:	DATE:

PROJECT NO.	PN 973
C.I.P. NO.	A-000713
H.A.S. NO.	
SHEET NO.	

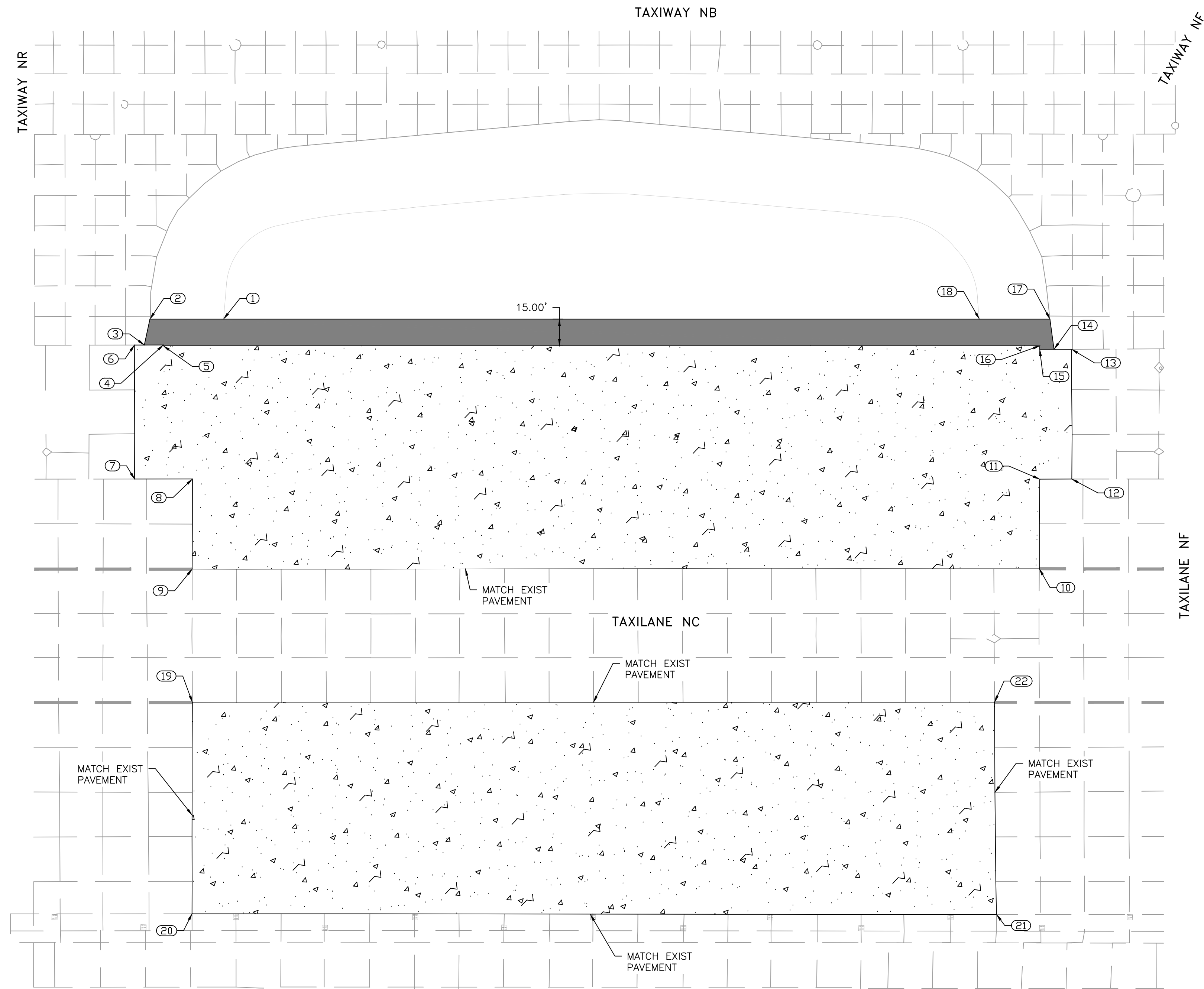
CP.01



40' 20' 0' 40'
 SCALE IN FEET

LEGEND

- PROPOSED CONCRETE PAVEMENT
- PROPOSED ASPHALT SHOULDER



TAXILANE NR

PAVEMENT EDGE TABLE	
POINT #	NORTHING/EASTING
1	N:13,926,746.87 E:3,123,236.85
2	N:13,926,745.55 E:3,123,195.59
3	N:13,926,730.91 E:3,123,192.92
4	N:13,926,731.28 E:3,123,203.57
5	N:13,926,730.80 E:3,123,203.59
6	N:13,926,730.71 E:3,123,187.37
7	N:13,926,655.61 E:3,123,189.87

PAVEMENT EDGE TABLE	
POINT #	NORTHING/EASTING
8	N:13,926,656.69 E:3,123,222.29
9	N:13,926,606.17 E:3,123,223.77
10	N:13,926,621.59 E:3,123,698.46
11	N:13,926,671.85 E:3,123,697.04
12	N:13,926,672.52 E:3,123,715.02
13	N:13,926,745.23 E:3,123,712.58
14	N:13,926,744.91 E:3,123,702.71

PAVEMENT EDGE TABLE	
POINT #	NORTHING/EASTING
15	N:13,926,744.66 E:3,123,694.71
16	N:13,926,746.59 E:3,123,694.64
17	N:13,926,761.77 E:3,123,699.89
18	N:13,926,760.50 E:3,123,660.34
19	N:13,926,531.54 E:3,123,226.30
20	N:13,926,412.97 E:3,123,229.92
21	N:13,926,427.14 E:3,123,680.67

PAVEMENT EDGE TABLE	
POINT #	NORTHING/EASTING
22	N:13,926,546.01 E:3,123,675.74

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IEA
13501 Katy Freeway
Suite 3425
Houston, Texas 77079
(832) 494-3800
TBPE Firm Registration No. F-10161

REVISIONS		
NO.	DESCRIPTION	DATE

TERMINAL A NORTH RON PARKING
AT GEORGE BUSH INTERCONTINENTAL AIRPORT

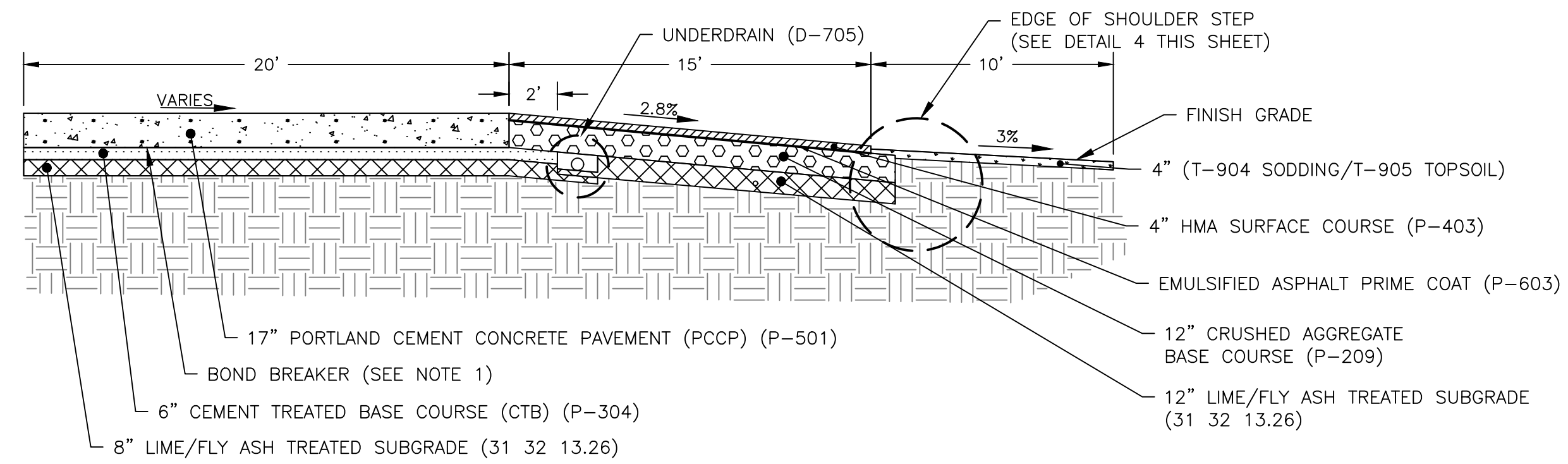
TYPICAL SECTIONS

T.I.P. No. 23-311-IAH B.S.G. No. 2023-356-IAH

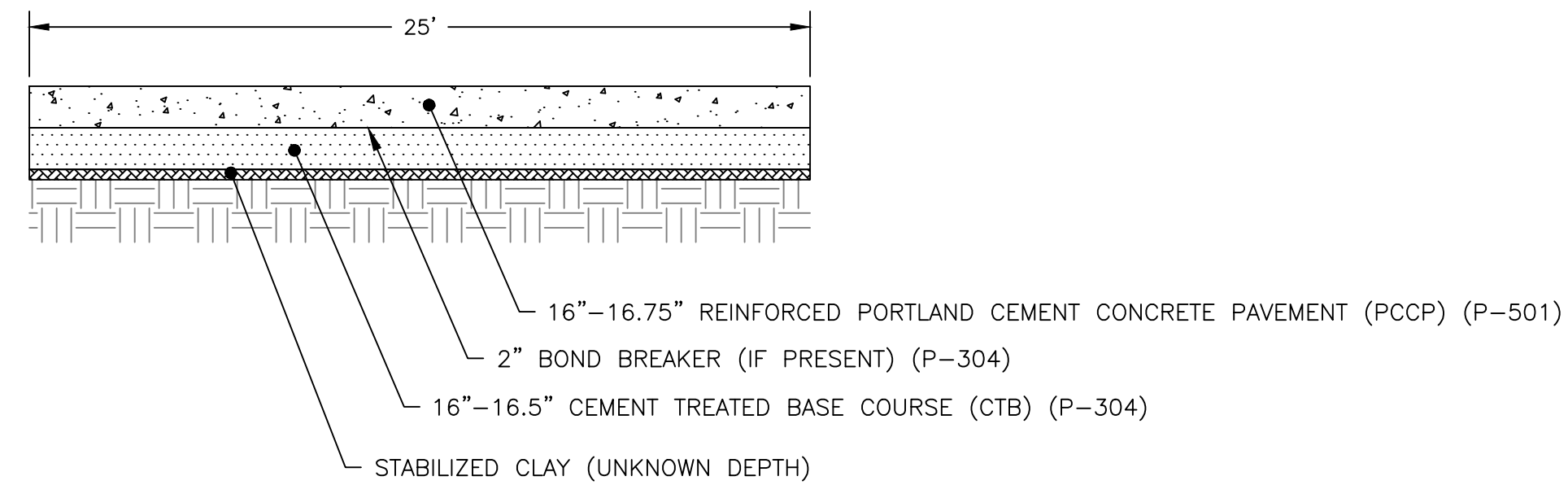
ISSUED FOR PERMIT	
PROJECT MGR:	DA
DESIGNER:	ZJ
DRAWN BY:	ZJ
CHECKED BY:	BS
SCALE:	NTS
DATE:	06/03/2024

DEPARTMENT OF AVIATION	
APPROVED BY:	DATE:

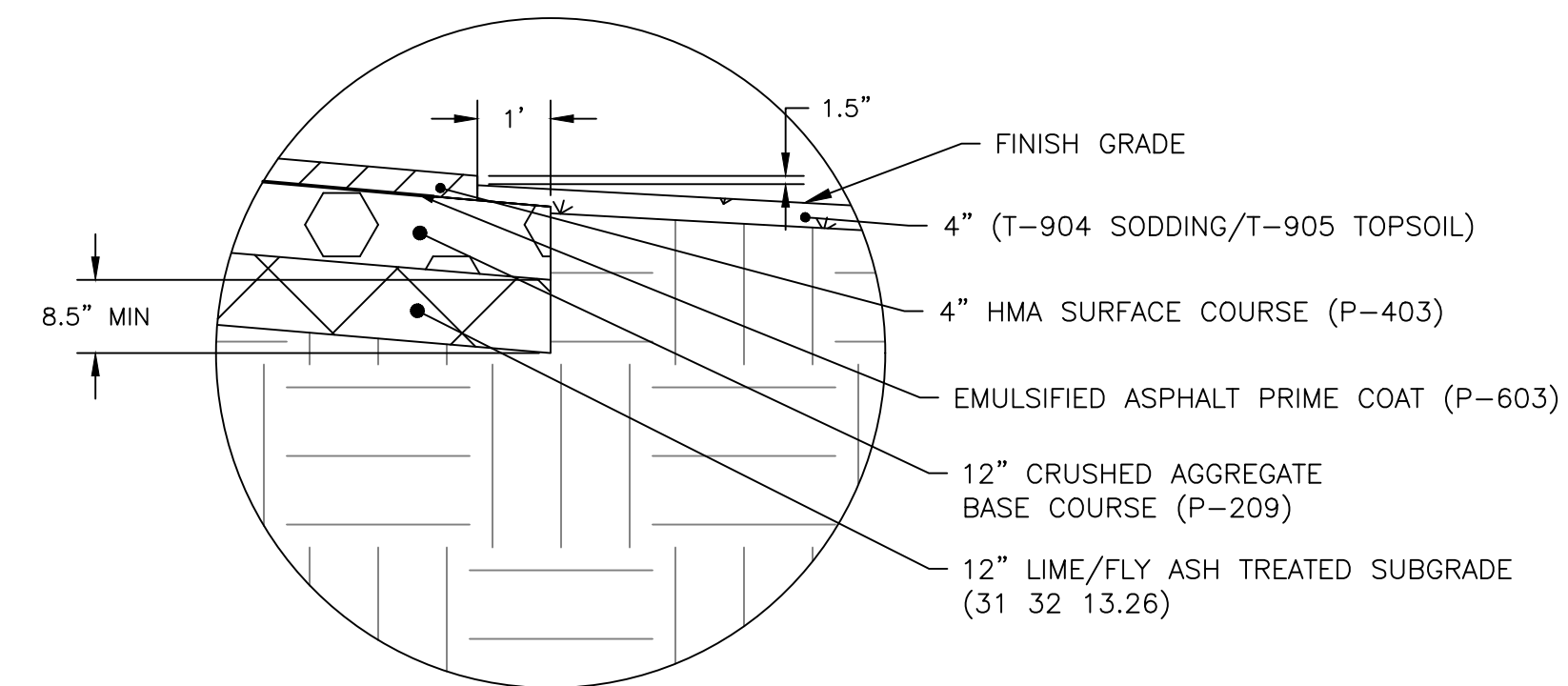
PROJECT NO.	PN 973
C.I.P. NO.	A-000713
H.A.S. NO.	
SHEET NO.	



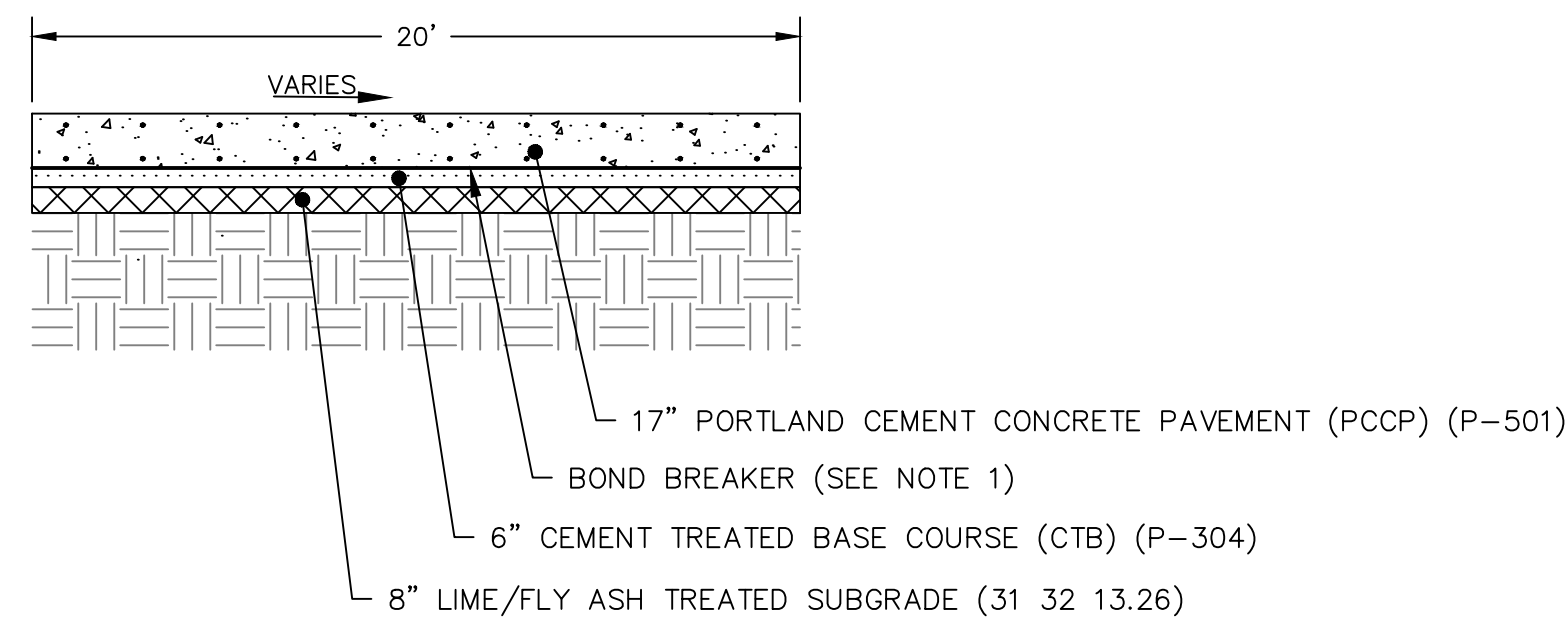
2 PROPOSED PAVEMENT SECTION - NORTH
CP.02 SCALE:NTS



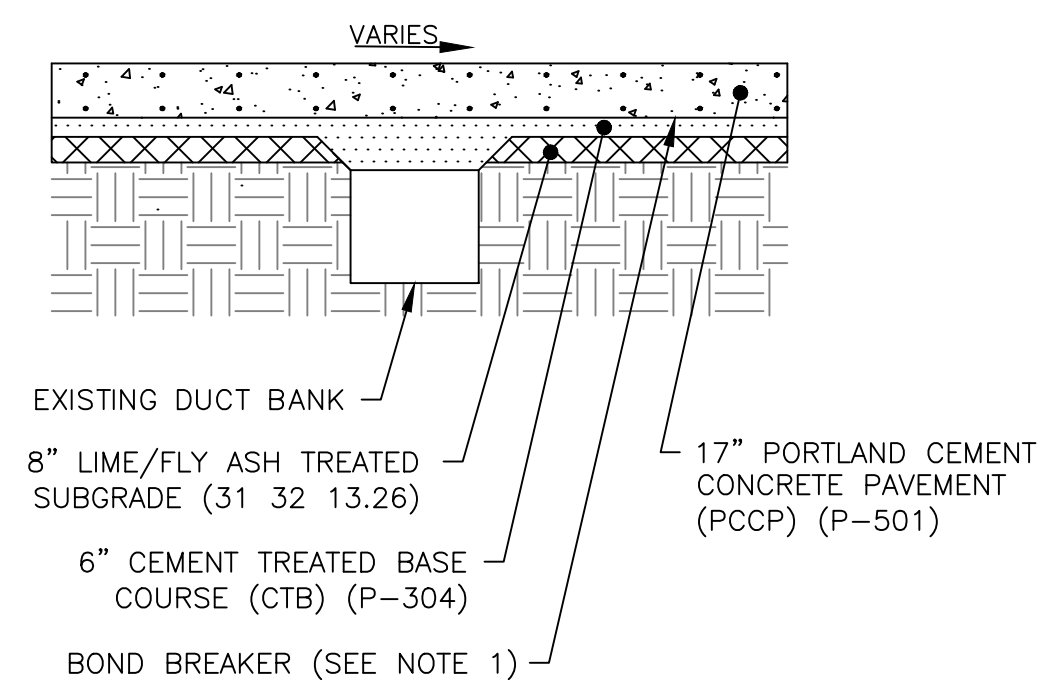
1 EXISTING PAVEMENT SECTION
CP.02 SCALE:NTS



4 EDGE OF SHOULDER STEP
CP.02 SCALE:NTS



3 PROPOSED PAVEMENT SECTION - SOUTH
CP.02 SCALE:NTS



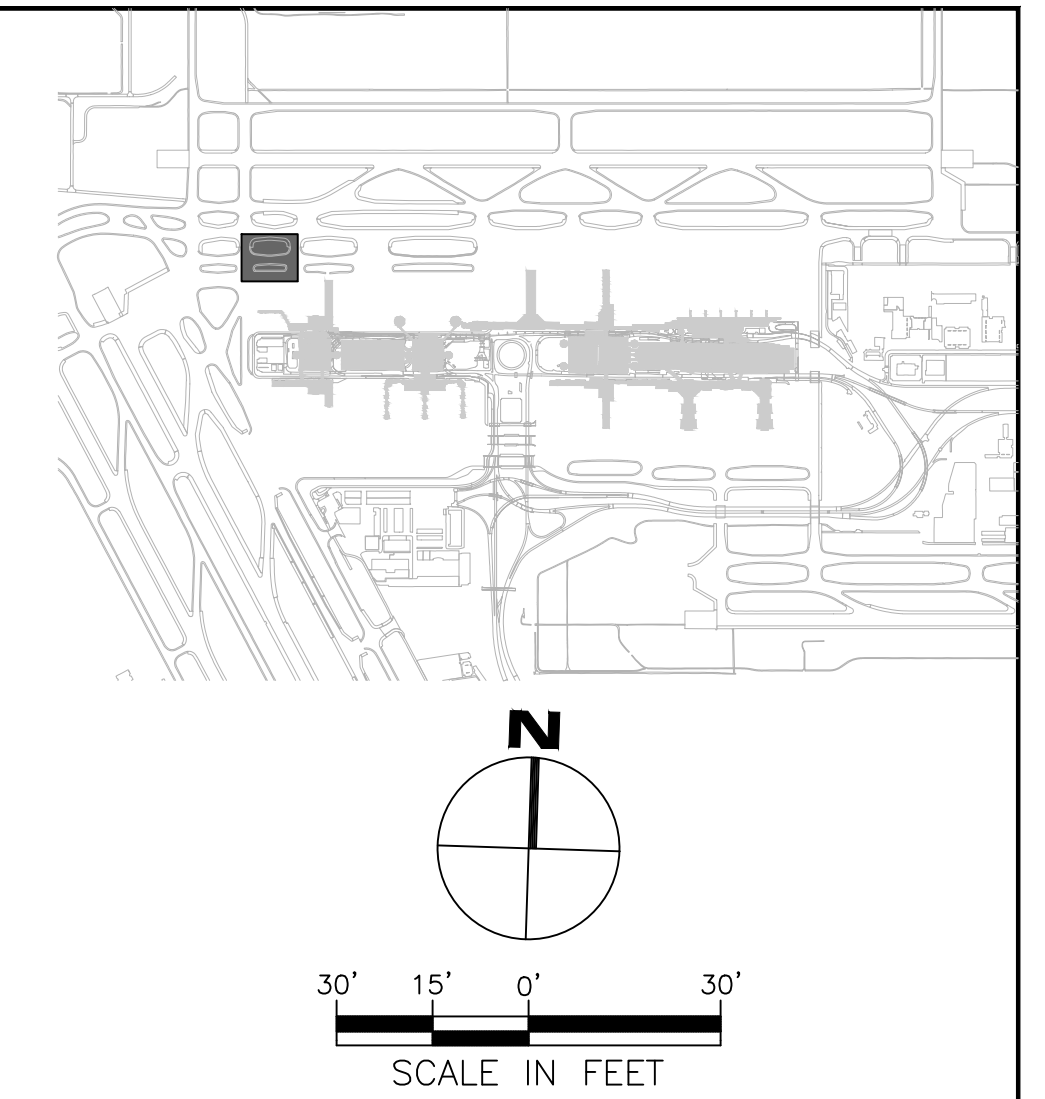
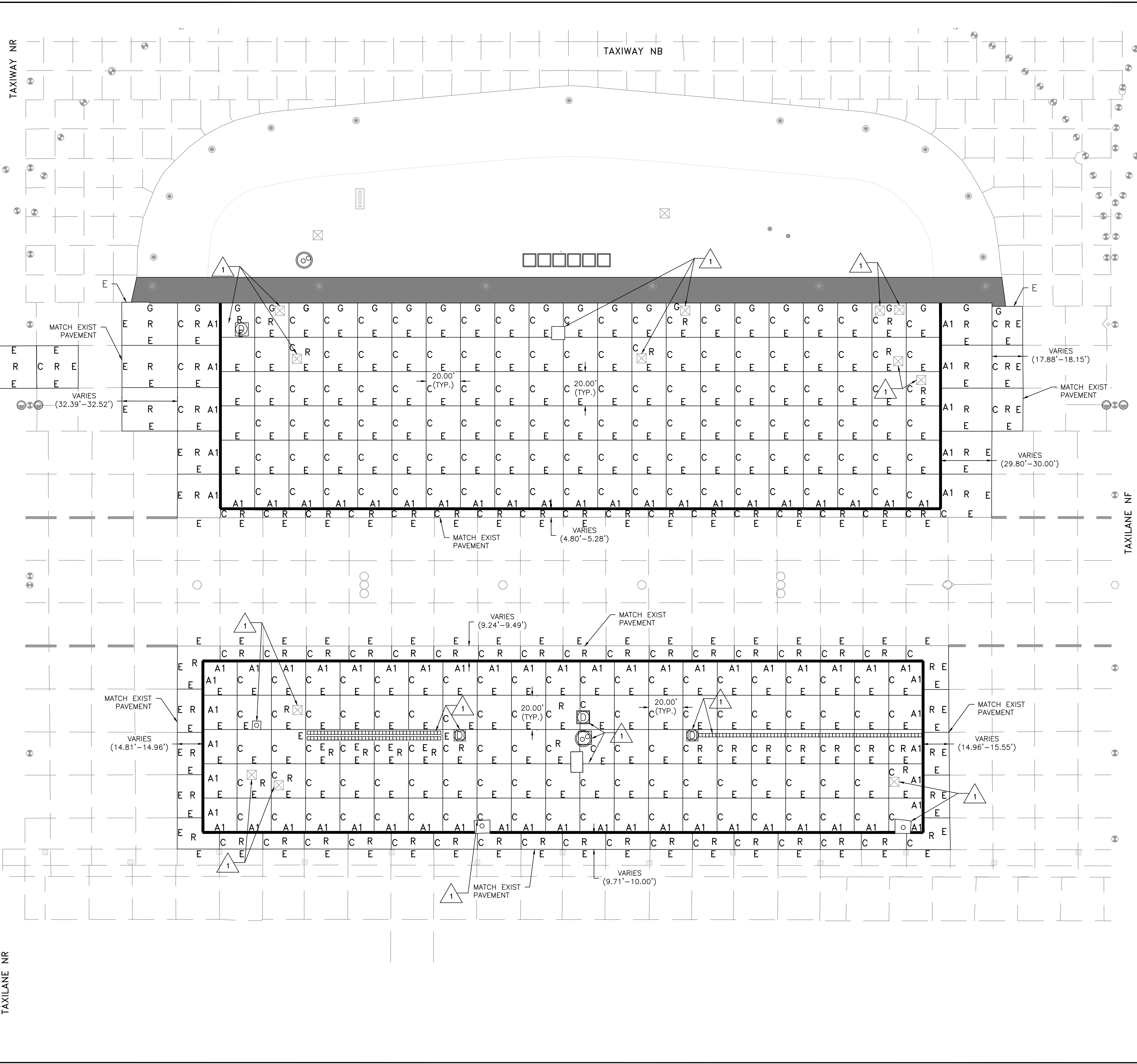
5 EXISTING DUCT BANK PROTECTION DETAIL
CP.02 SCALE:NTS

- NOTES:
- USE EXTREME CAUTION WHEN WORKING AROUND AND OVER EXISTING DUCT BANKS. USE HAND DIGGING METHODS AS REQUIRED TO PROTECT DUCTS.
 - IF THE EXISTING DUCT BANK LIES IN THE PROPOSED PAVEMENT LAYERS, PROVIDE CEMENT-TREATED BASE COURSE OVER THE TOP OF THE DUCT BANK RATHER THAN LIME TREATED SUBGRADE.
 - NOTIFY OAR OR OF ALL INSTANCES WHERE DUCT BANK IS LESS THAN 2 FEET BELOW THE BOTTOM OF LIME TREATED SUBGRADE.

TYPICAL SECTION NOTES:

- BOND BREAKER TO BE LIQUID MEMBRANE FORMING COMPOUND. SEE P-501 SPECIFICATION.
- WHEN THE HMA SURFACE COURSE IS PLACED IN MULTIPLE LIFTS, AN APPLICATION OF EMULSIFIED TACK COAT (P-603) SHALL BE APPLIED TO THE UNDERLYING LIFTS OF MATERIAL. TACK COAT (P-603) SHALL BE APPLIED TO P-501 VERTICAL/EDGE SURFACE (CONCRETE/ASPHALT JOINT) PRIOR TO P-403 PLACEMENT.
- IRREGULAR PANELS OR ONES WITH PENETRATIONS REQUIRE REINFORCEMENT.

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LEGEND

- PROPOSED ASPHALT SHOULDER
- EXISTING TAXIWAY CENTER LIGHT
- EXISTING TAXIWAY EDGE LIGHT
- EXISTING TAXIWAY CLEARANCE BAR LIGHT
- EXISTING ELECTRICAL MANHOLE OR HANDHOLE
- EXISTING AIRFIELD GUIDANCE SIGN
- EXISTING INLET
- EXISTING MANHOLE
- COVER PLATE INSTALLED ON BASE CAN
- IN-PAVEMENT OMNIDIRECTIONAL TAXIWAY CENTERLIGHT
- REINFORCED SLAB
- PROPOSED ISOLATION JOINT, REINFORCED (A1)
- PROPOSED DOWELED CONSTRUCTION JOINTS (E)
- PROPOSED DOWELED CONSTRUCTION JOINTS (C)
- PROPOSED CONSTRUCTION JOINT BETWEEN PCCP AND HMA (G)
- EXISTING ISOLATION JOINT
- EXISTING CONSTRUCTION JOINT
- EXISTING CONSTRUCTION JOINT
- PROPOSED INLET/JUNCTION BOX
- PROPOSED STORMCEPTOR

KEYED NOTE

- SEE STRUCTURE ISOLATION JOINT DETAIL, SHEET CJ.03

HOUSTON AIRPORT SYSTEM
 GEORGE BUSH INTERCONTINENTAL AIRPORT
 HOUSTON, TEXAS

IEA
 13501 Katy Freeway
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REVISIONS

NO.	DESCRIPTION	DATE	BY

LETTER REVISION
 DATE: 06/03/2024
 BY: [Signature]

TERMINAL A NORTH IRON PARKING
 AT GEORGE BUSH INTERCONTINENTAL AIRPORT

PAVEMENT JOINT PLAN

T.I.P. No. 23-311-IAH B.S.G. No. 2023-356-IAH

ISSUED FOR PERMIT

PROJECT MGR:	DA
DESIGNER:	JK
DRAWN BY:	JK
CHECKED BY:	BS
SCALE:	1" = 30'
DATE:	06/03/2024

STATE OF TEXAS
 REGISTERED PROFESSIONAL ENGINEER
 DAVID B. AKERS
 64899
 [Signature]

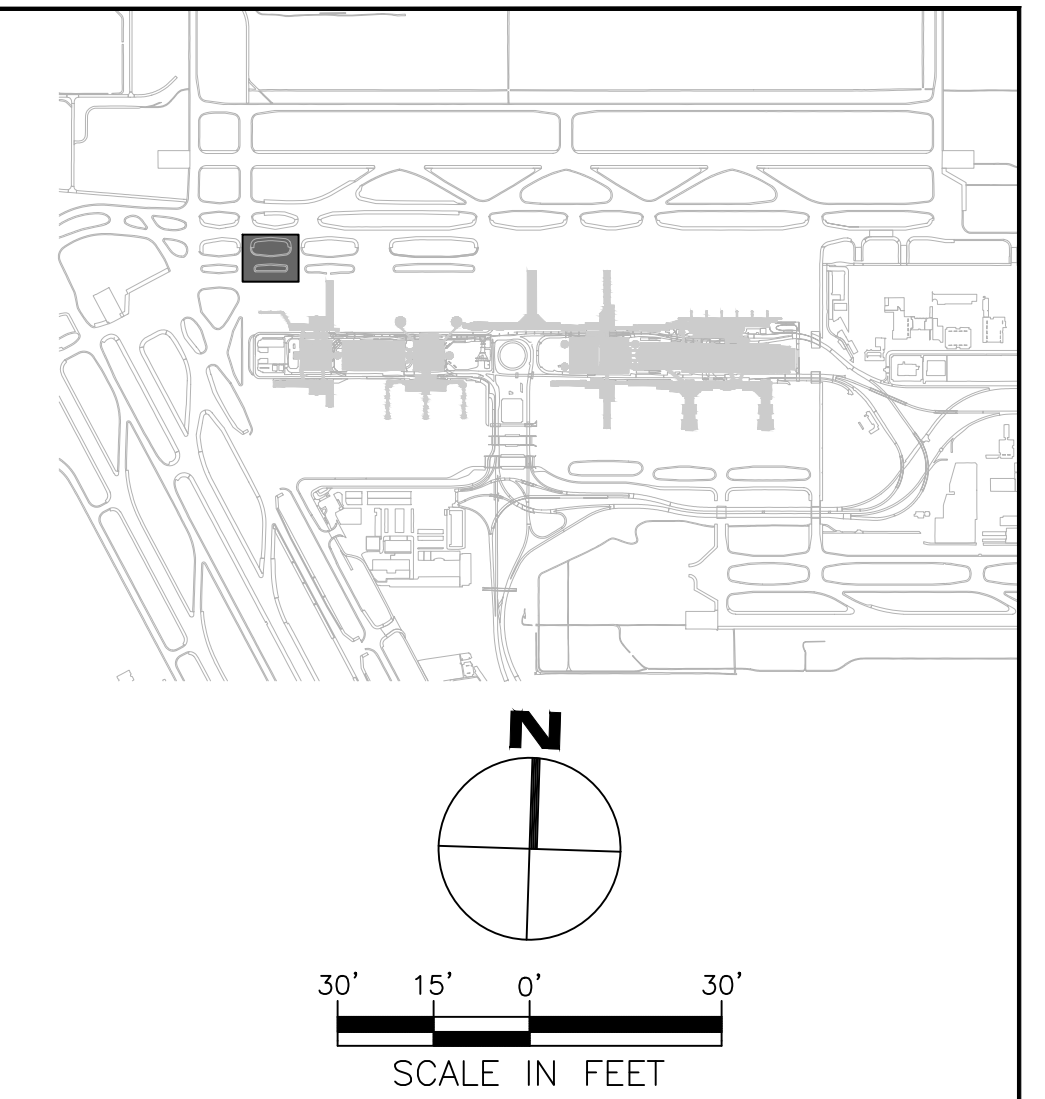
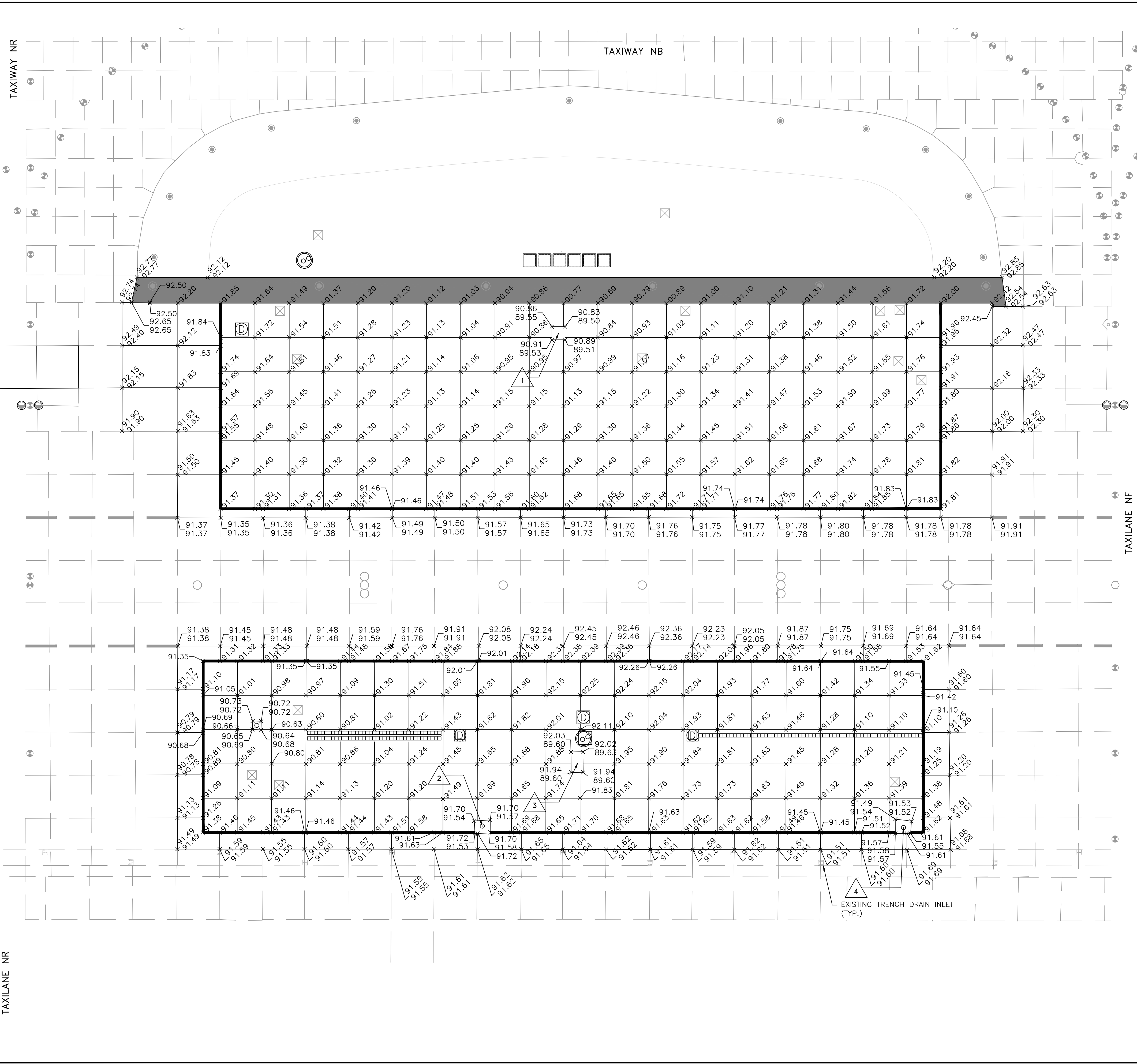
DEPARTMENT OF AVIATION

APPROVED BY:	DATE:


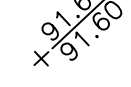
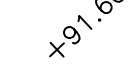



HOUSTON AIRPORT SYSTEMS
 AUTHORIZED REPRESENTATIVE

PROJECT NO.	PN 973
C.I.P. NO.	A-000713
H.A.S. NO.	
SHEET NO.	

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LEGEND

-  PROPOSED ASPHALT SHOULDER
-  FINISHED GRADE/EXISTING GRADE
-  FINISHED GRADE
-  EXISTING ELECTRICAL MANHOLE OR HANDHOLE
-  PROPOSED INLET/JUNCTION BOX
-  PROPOSED STORMCEPTOR

NOTES:

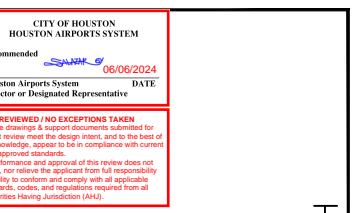
1. CONTRACTOR TO ADJUST GRADES ELEVATIONS OF EXISTING MANHOLES.

KEYED NOTE:

-  EXISTING STRUCTURES THAT REQUIRE ELEVATION ADJUSTMENT TO NEW PROPOSED ELEVATIONS.
- REFER TO SHEET CU.09 DETAIL FOR STRUCTURE ADJUSTMENTS.

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REVISIONS			
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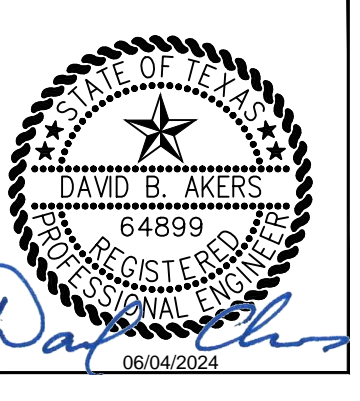


TERMINAL A NORTH IRON PARKING
 AT GEORGE BUSH INTERCONTINENTAL AIRPORT

PAVEMENT JOINT ELEVATION PLAN

T.I.P. No. 23-311-IAH B.S.G. No. 2023-356-IAH

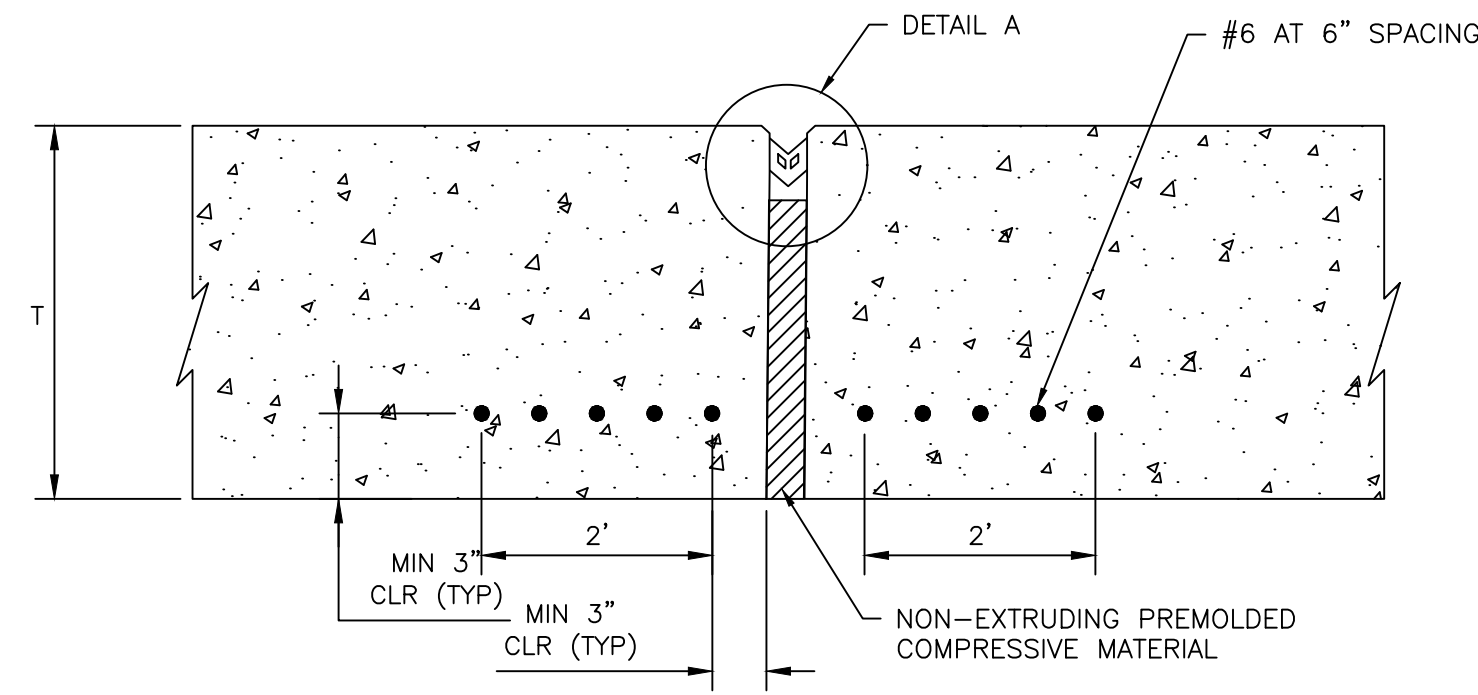
ISSUED FOR PERMIT	
PROJECT MGR:	DA
DESIGNER:	DA
DRAWN BY:	IKK
CHECKED BY:	BS
SCALE:	1" = 30'
DATE:	06/03/2024



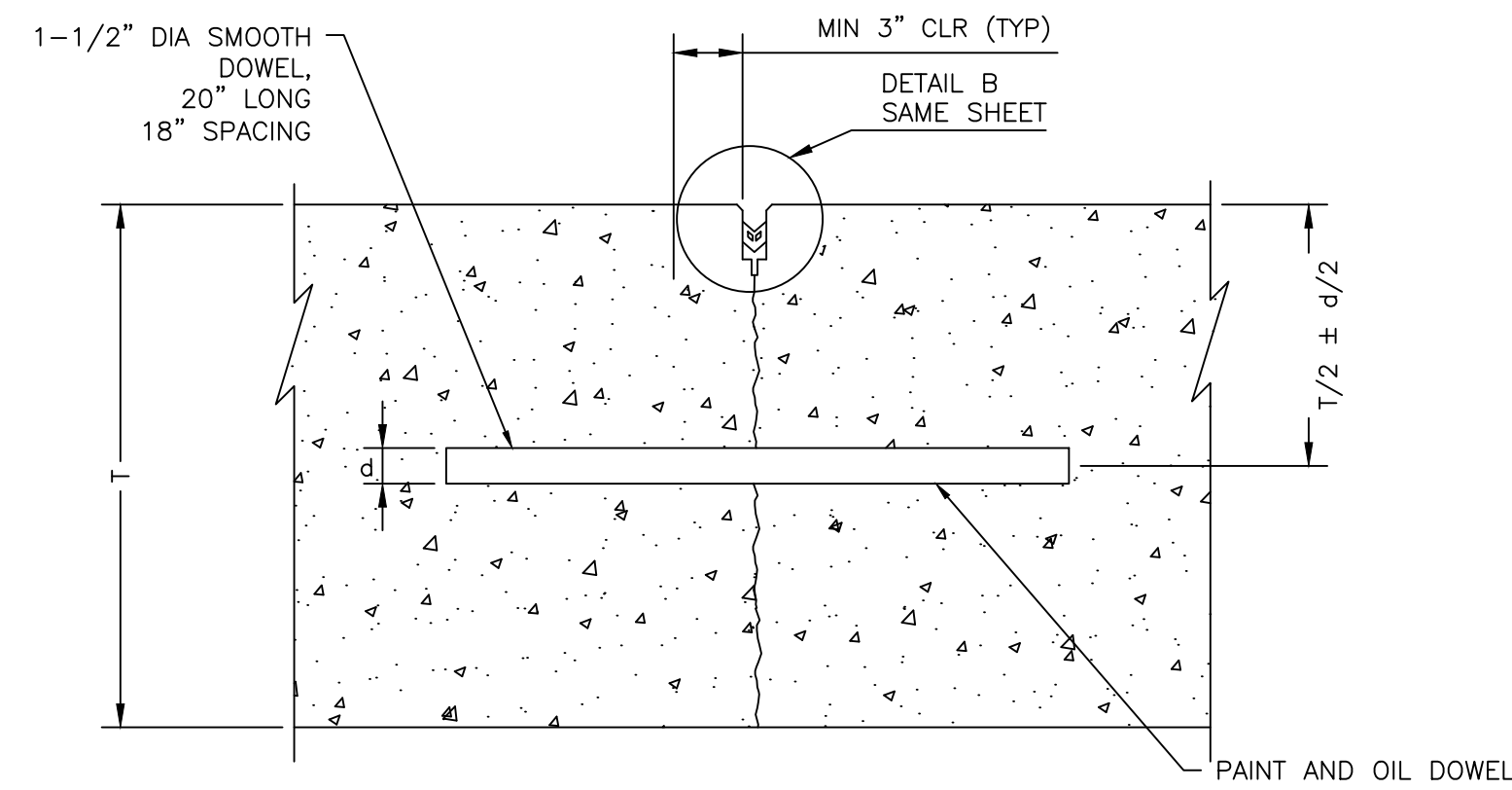
DEPARTMENT OF AVIATION	
APPROVED BY:	DATE:

PROJECT NO.	PN 973
C.I.P. NO.	A-000713
H.A.S. NO.	
SHEET NO.	

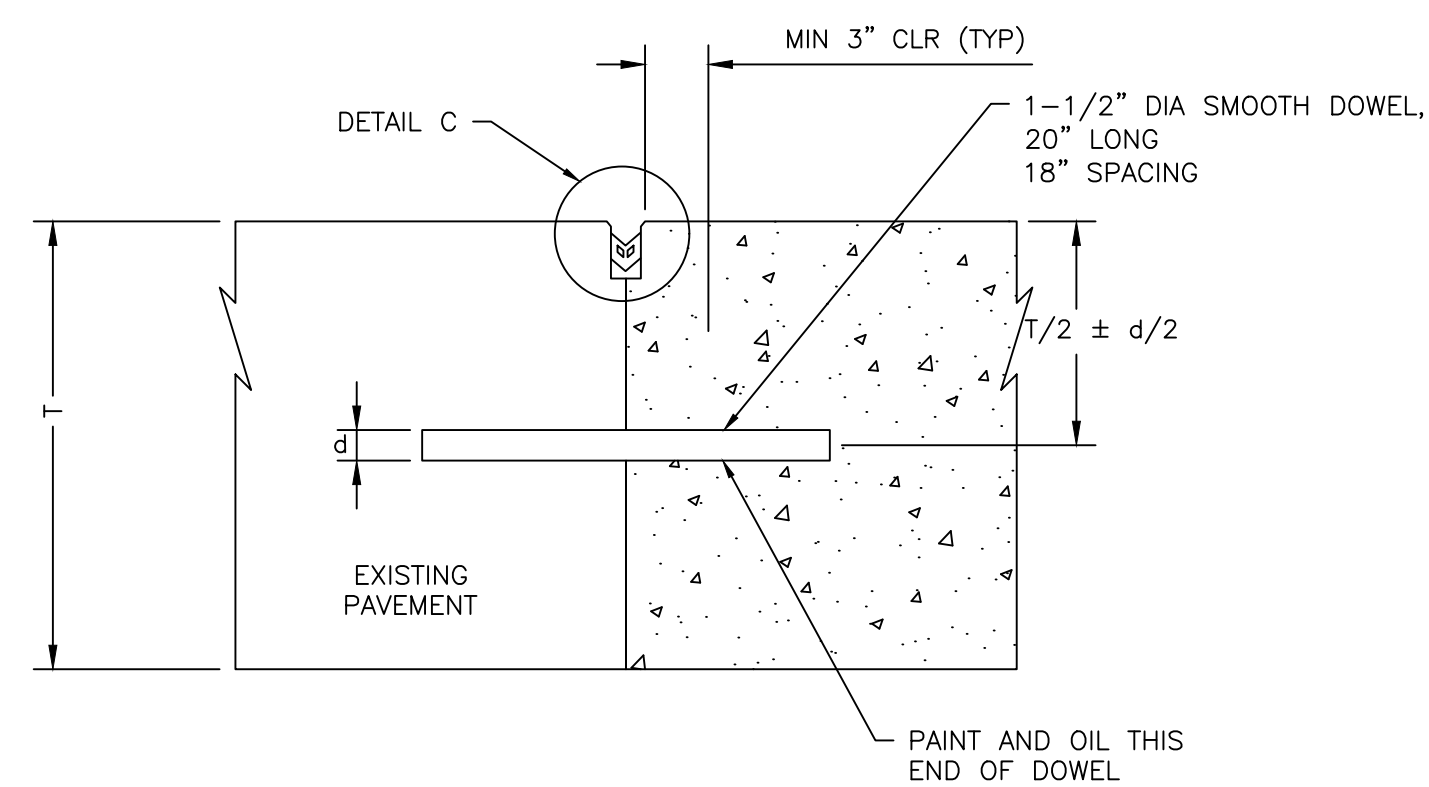
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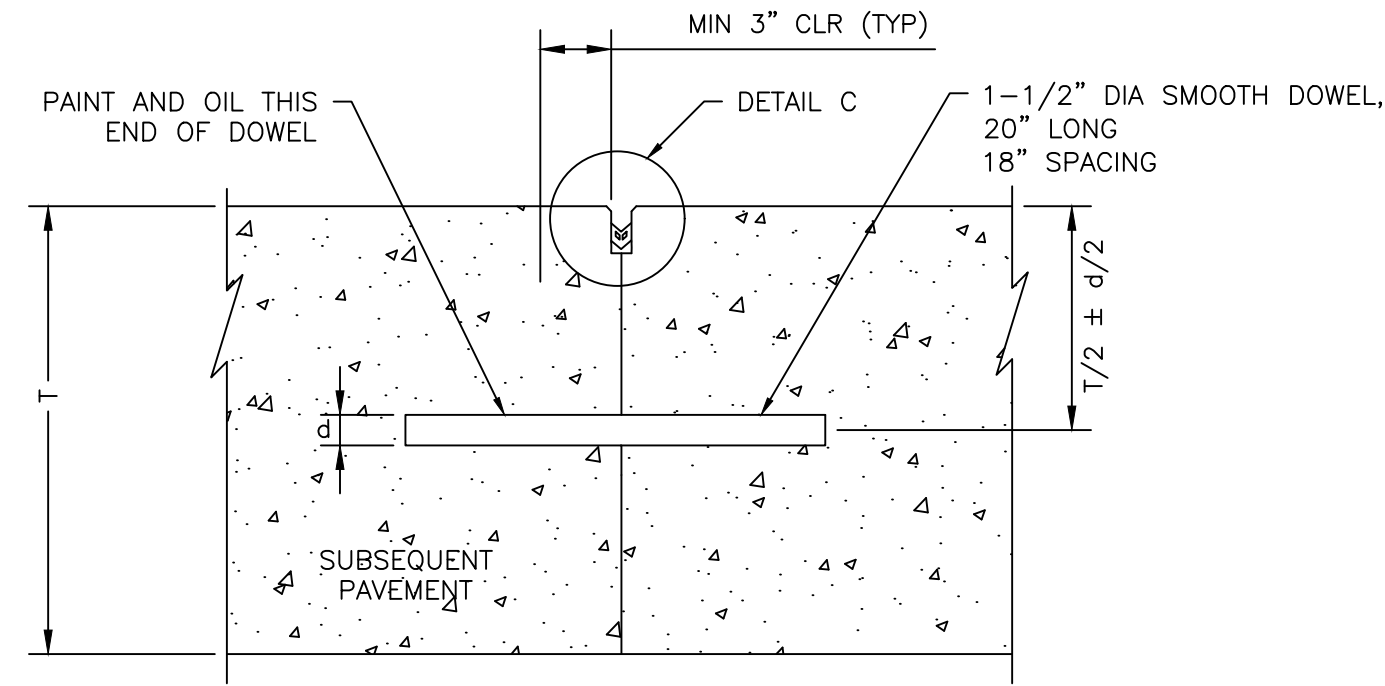
1 **TYPE A1 - REINFORCED ISOLATION JOINT**
SCALE: NTS



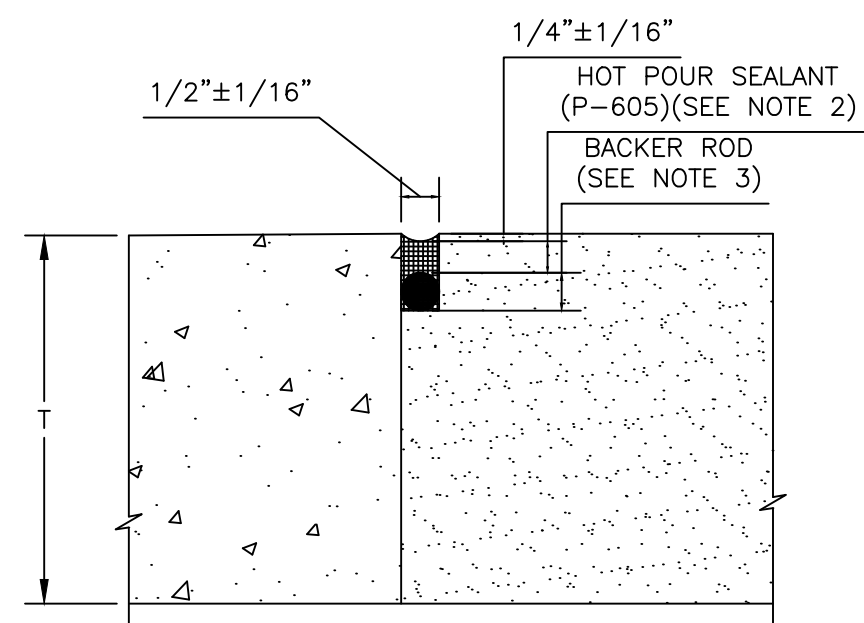
2 **TYPE C - DOWELED CONTRACTION JOINT**
SCALE: NTS



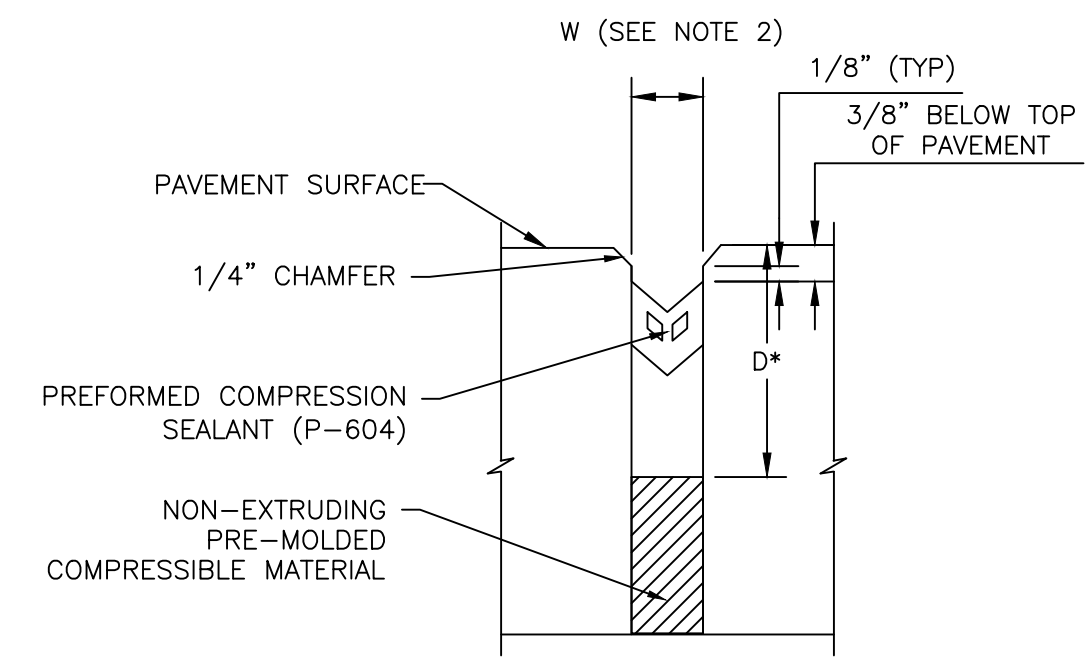
3 **DOWELED CONSTRUCTION JOINT WITH EXISTING PAVEMENT**
SCALE: NTS



4 **TYPE E - DOWELED CONSTRUCTION JOINT**
SCALE: NTS

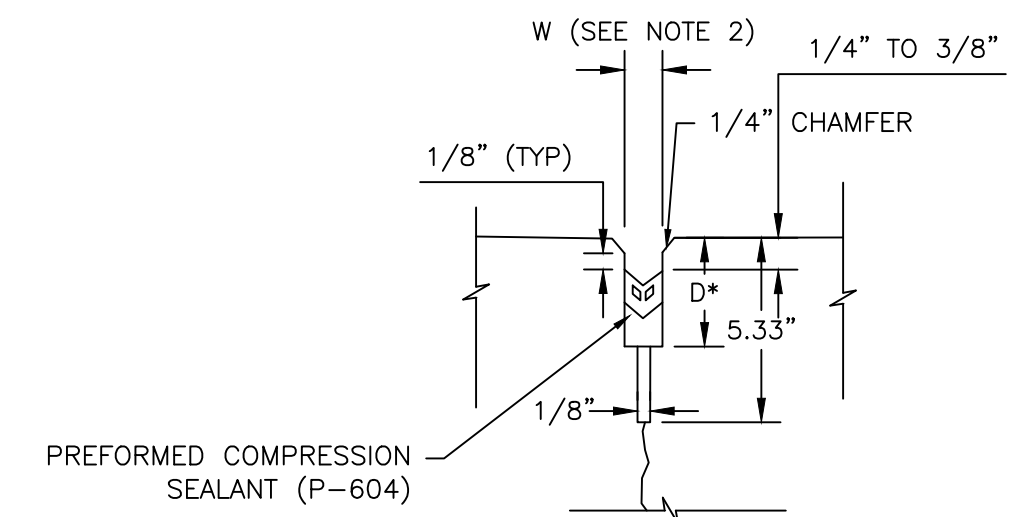


5 **TYPE G - CONSTRUCTION JOINT BETWEEN PCC AND AC**
SCALE: NTS



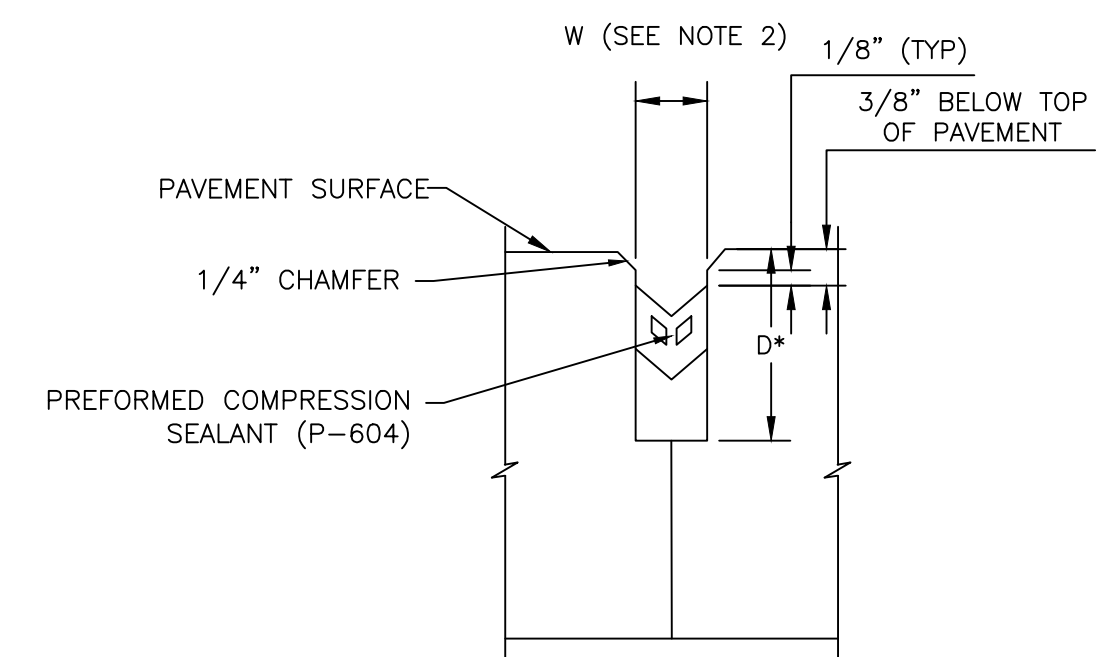
- NOTE:
1. AT "T" INTERSECTIONS, USE HAND TOOLS AS REQUIRED TO ACHIEVE FULL DEPTH JOINT FOR COMPRESSION SEALANT INSTALLATION.
 2. REFER TO SPECIFICATIONS SECTION P-604 AND MANUFACTURER'S RECOMMENDATIONS FOR WIDTH AND DEPTH REQUIREMENTS.

6 **DETAIL A - ISOLATION JOINT**
SCALE: NTS



- NOTE:
1. CLOSED CELL RESILIENT FOAM SIZED TO FIT A 1/8" SAWCUT SHALL BE INSTALLED IMMEDIATELY FOLLOWING INITIAL SAWCUT.
 2. REFER TO SPECIFICATIONS SECTION P-604 AND MANUFACTURER'S RECOMMENDATIONS FOR WIDTH AND DEPTH REQUIREMENTS.

7 **DETAIL B - CONTRACTION JOINT**
SCALE: NTS



- NOTE:
1. AT "T" INTERSECTIONS, USE HAND TOOLS AS REQUIRED TO ACHIEVE FULL DEPTH JOINT FOR COMPRESSION SEALANT INSTALLATION.
 2. REFER TO SPECIFICATIONS SECTION P-604 AND MANUFACTURER'S RECOMMENDATIONS FOR WIDTH AND DEPTH REQUIREMENTS.

8 **DETAIL C - CONSTRUCTION JOINT**
SCALE: NTS

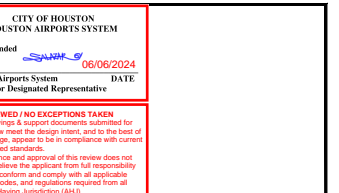


HOUSTON AIRPORT SYSTEM
GEORGE BUSH INTERCONTINENTAL AIRPORT HOUSTON, TEXAS



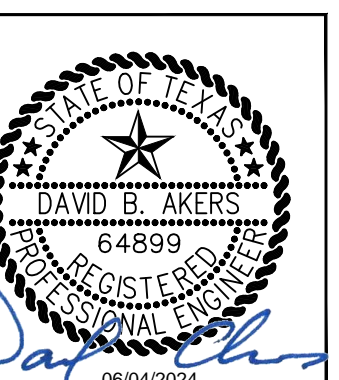
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Houston, Texas 77079
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TBPE Firm Registration No. F-10161

REVISIONS			
NO.	DESCRIPTION	DATE	BY



TERMINAL A NORTH IRON PARKING
AT GEORGE BUSH INTERCONTINENTAL AIRPORT
PAVEMENT JOINT DETAILS
T.I.P. No. 23-311-IAH B.S.G. No. 2023-356-IAH

ISSUED FOR PERMIT	
PROJECT MGR:	DA
DESIGNER:	ZJ
DRAWN BY:	ZJ
CHECKED BY:	BS
SCALE:	NTS
DATE:	06/03/2024



DEPARTMENT OF AVIATION	
APPROVED BY:	DATE:
HOUSTON AIRPORT SYSTEMS AUTHORIZED REPRESENTATIVE	

PROJECT NO.	PN 973
C.I.P. NO.	A-000713
H.A.S. NO.	
SHEET NO.	

CJ.03



HOUSTON AIRPORT SYSTEM

GEORGE BUSH INTERCONTINENTAL AIRPORT HOUSTON, TEXAS



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NO.	DESCRIPTION	DATE

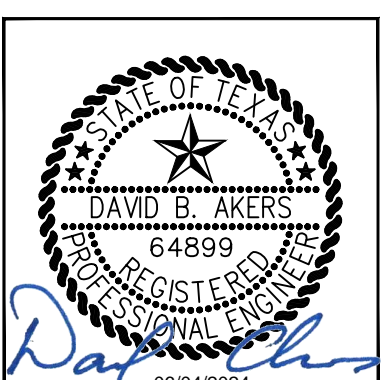


TERMINAL A NORTH IRON PARKING AT GEORGE BUSH INTERCONTINENTAL AIRPORT

PAVEMENT JOINT DETAILS

T.I.P. No. 23-311-IAH B.S.G. No. 2023-356-IAH

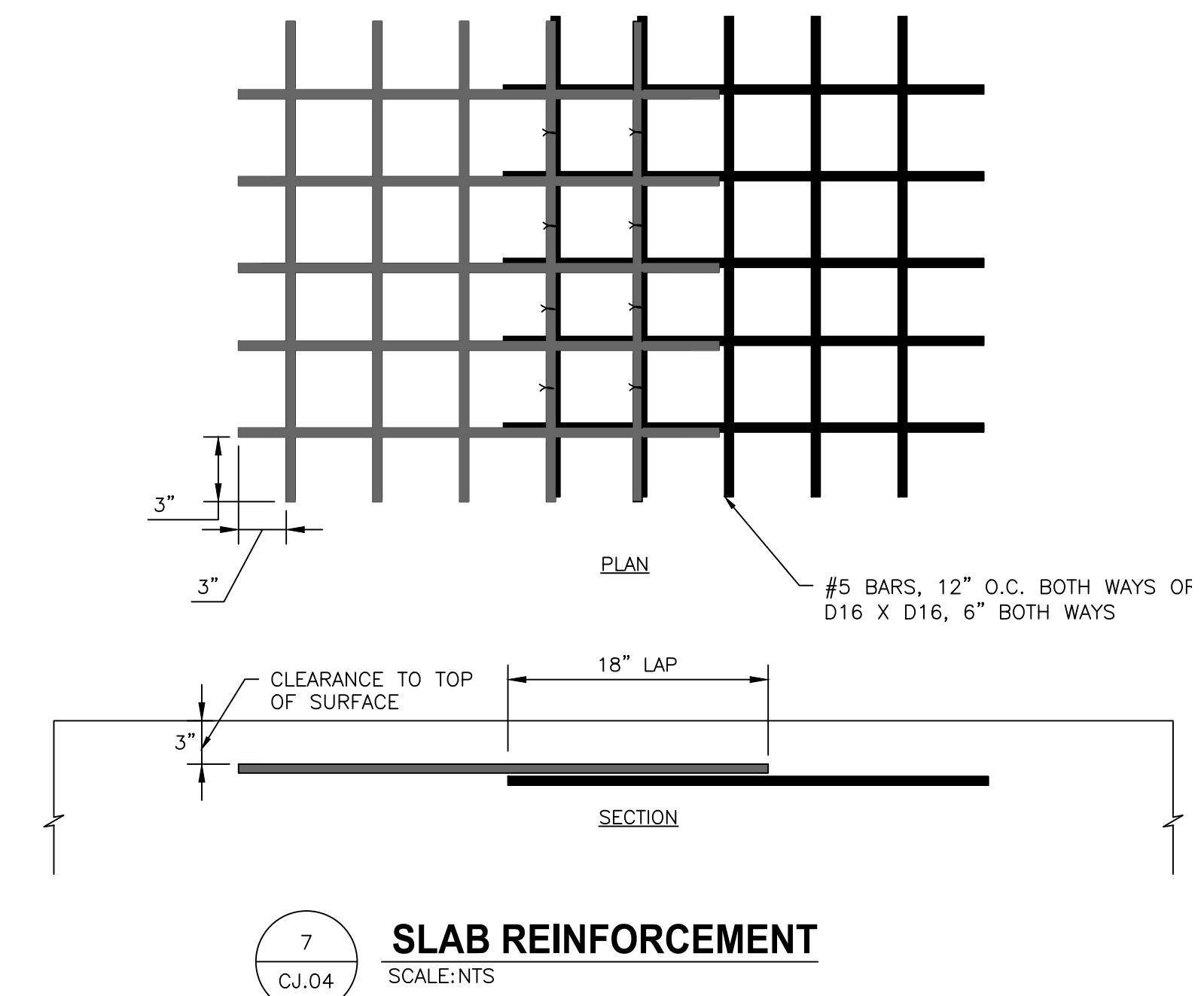
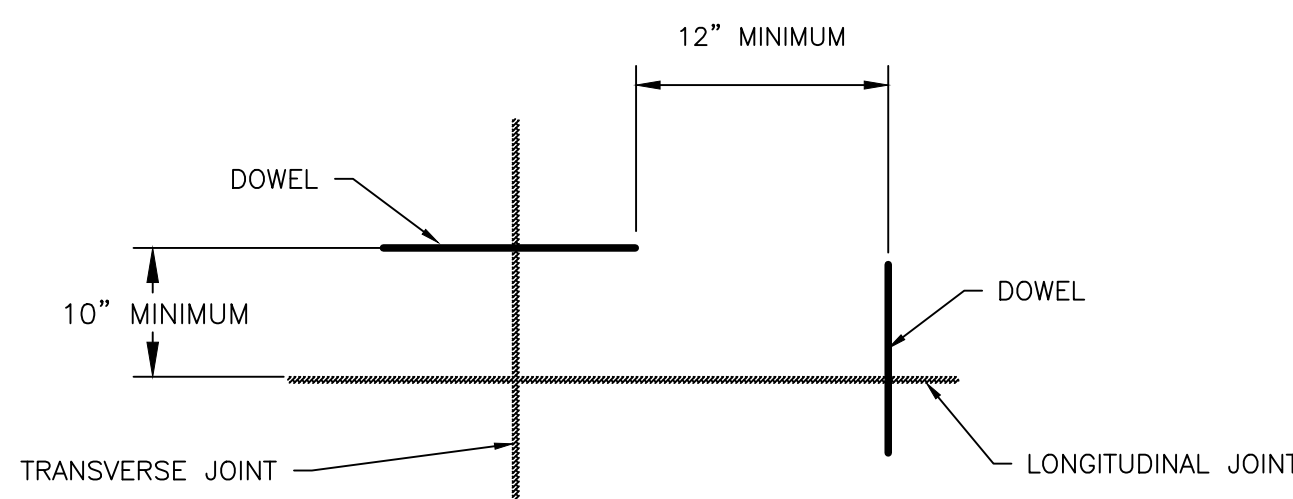
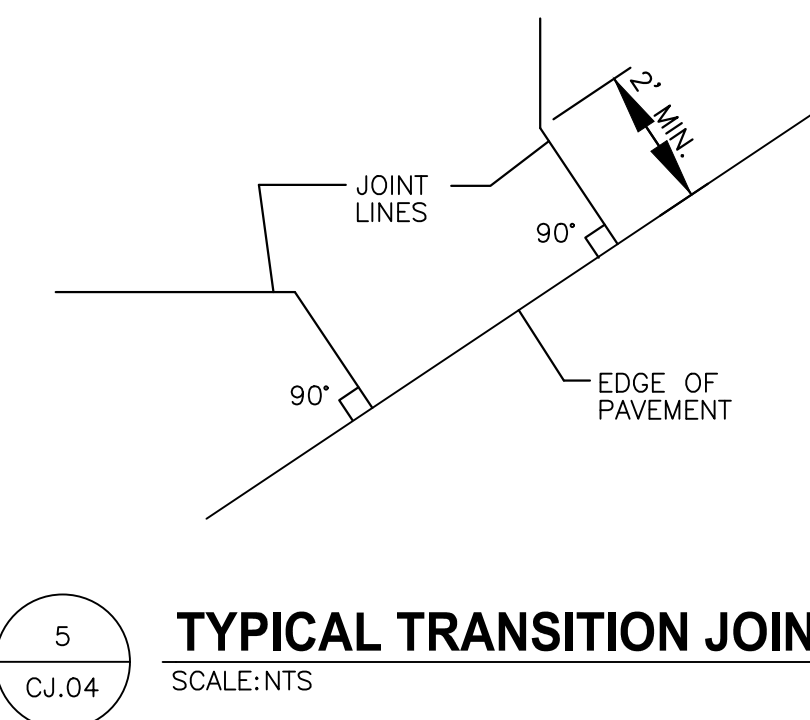
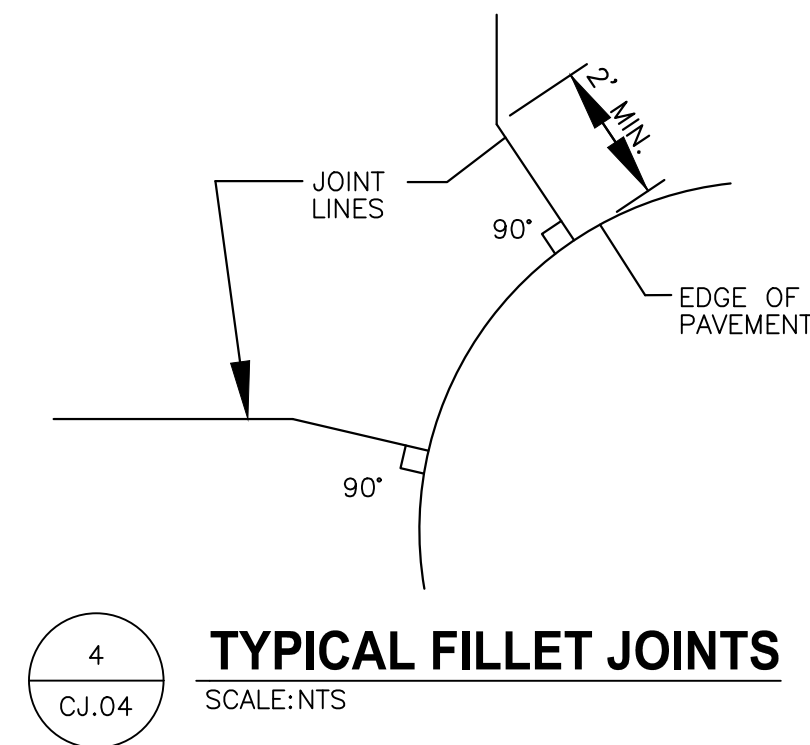
ISSUED FOR PERMIT	
PROJECT MGR:	DA
DESIGNER:	ZJ
DRAWN BY:	ZJ
CHECKED BY:	BS
SCALE:	NTS
DATE:	06/03/2024



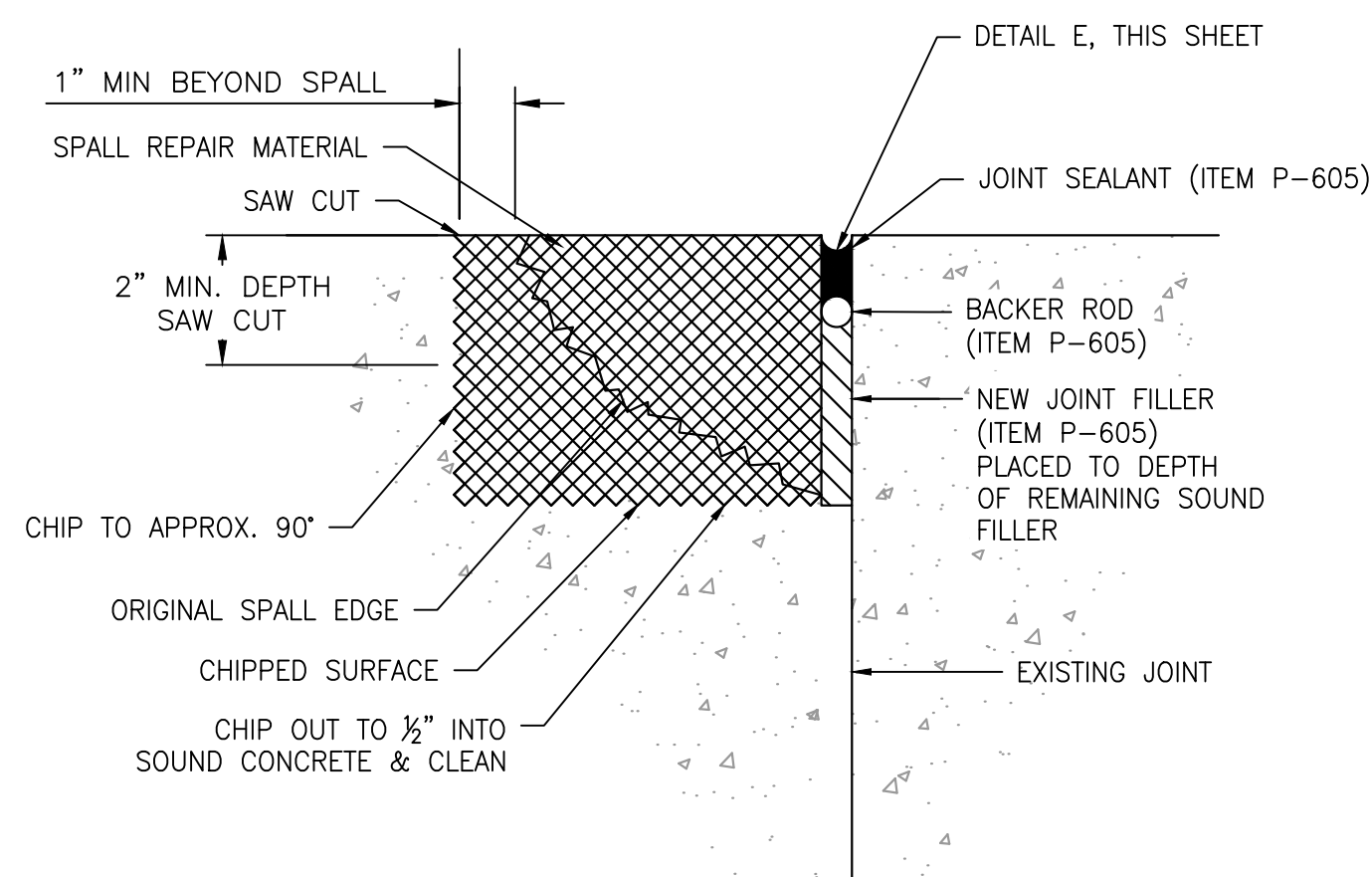
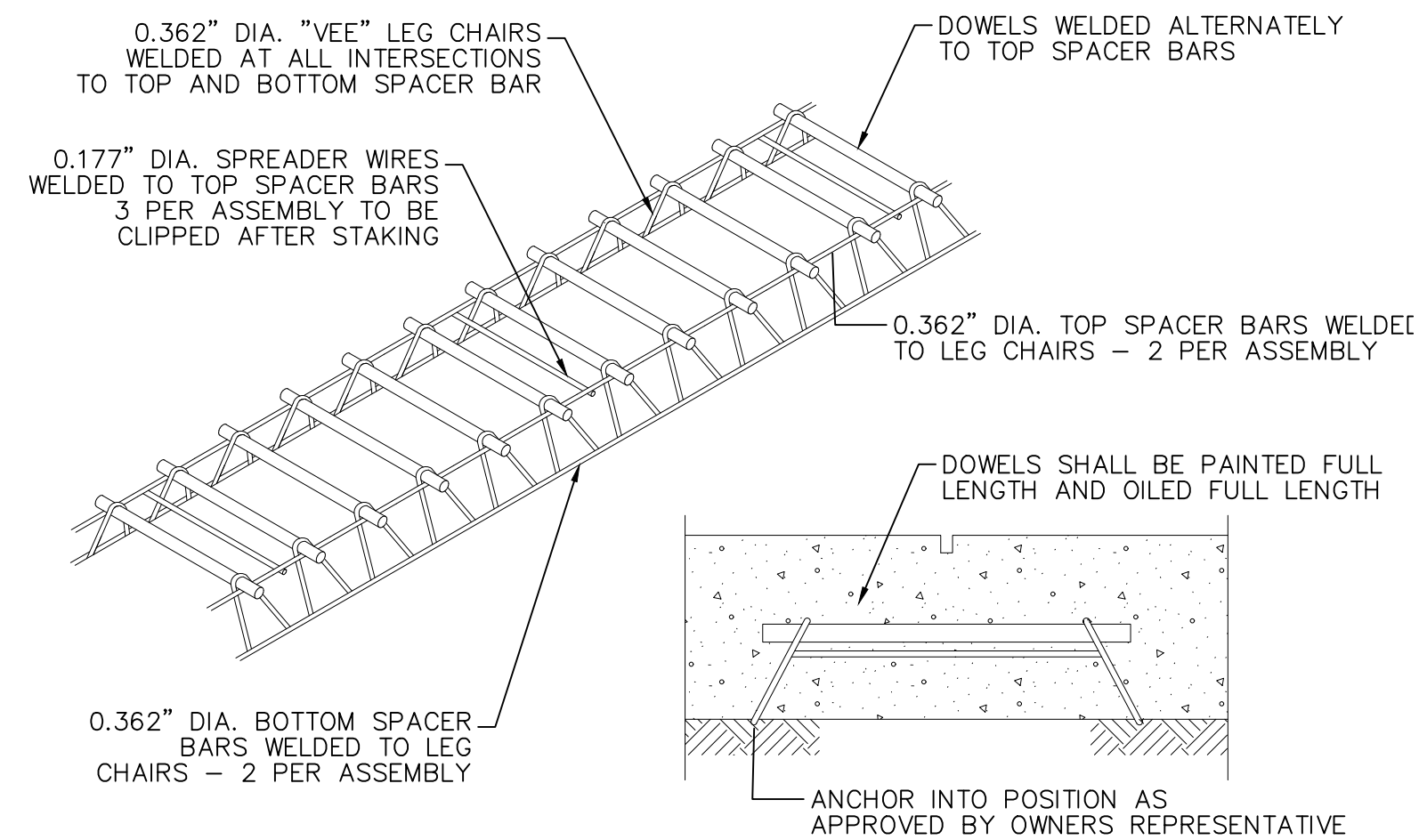
DEPARTMENT OF AVIATION	
APPROVED BY:	DATE:
HOUSTON AIRPORT SYSTEMS AUTHORIZED REPRESENTATIVE	

PROJECT NO.	PN 973
C.I.P. NO.	A-000713
H.A.S. NO.	
SHEET NO.	

CJ.04

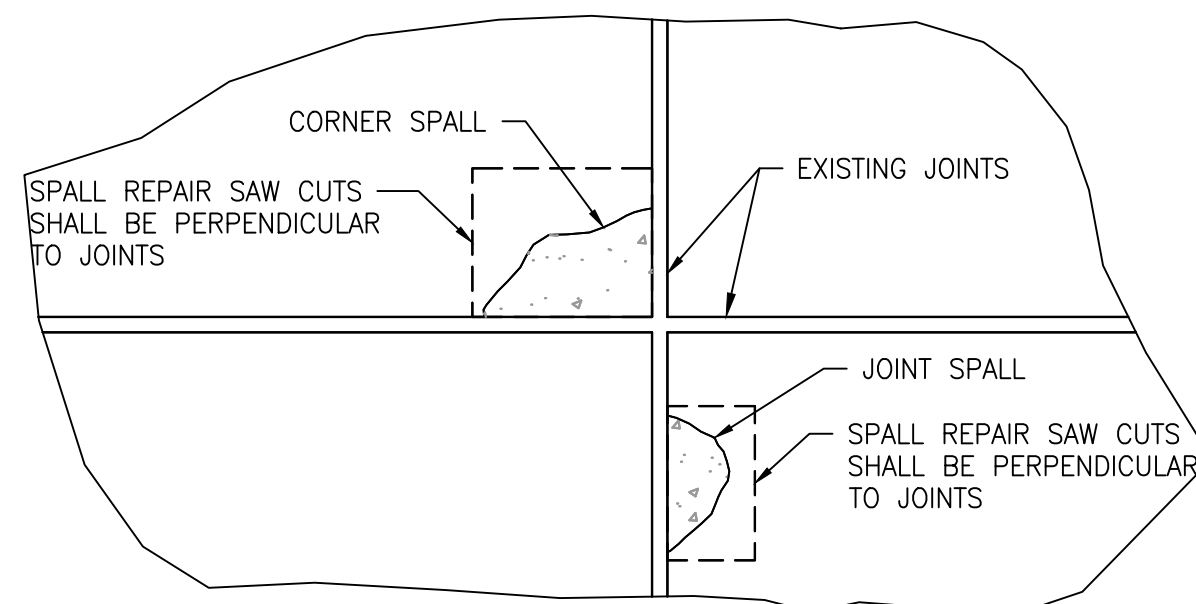


NOTE:
ODD SHAPED SLABS OR SLABS WITH PENETRATIONS SHALL BE REINFORCED. ODD-SHAPED SLABS ARE RECTANGULAR SLABS WITH A LENGTH TO WIDTH RATIO GREATER THAN 1.25 OR NON RECTANGULAR SHAPED.



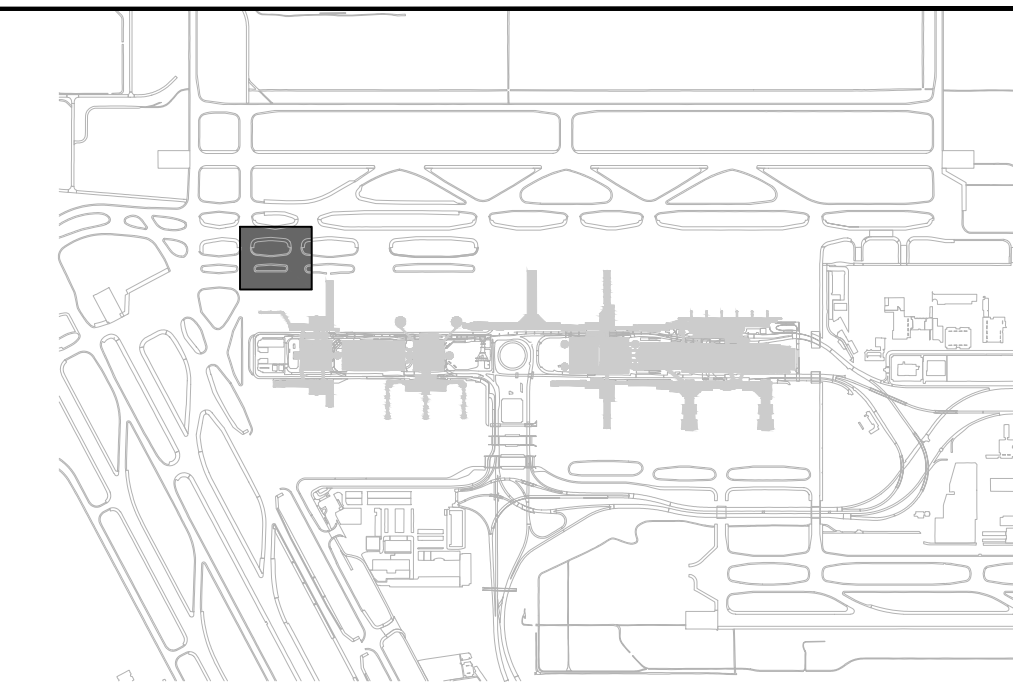
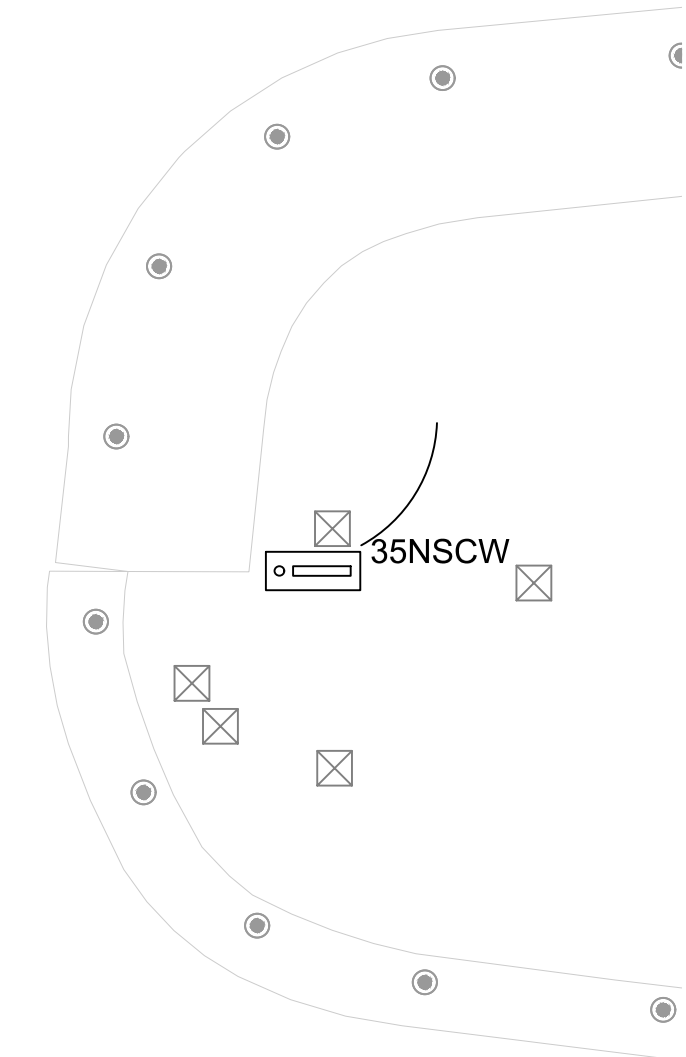
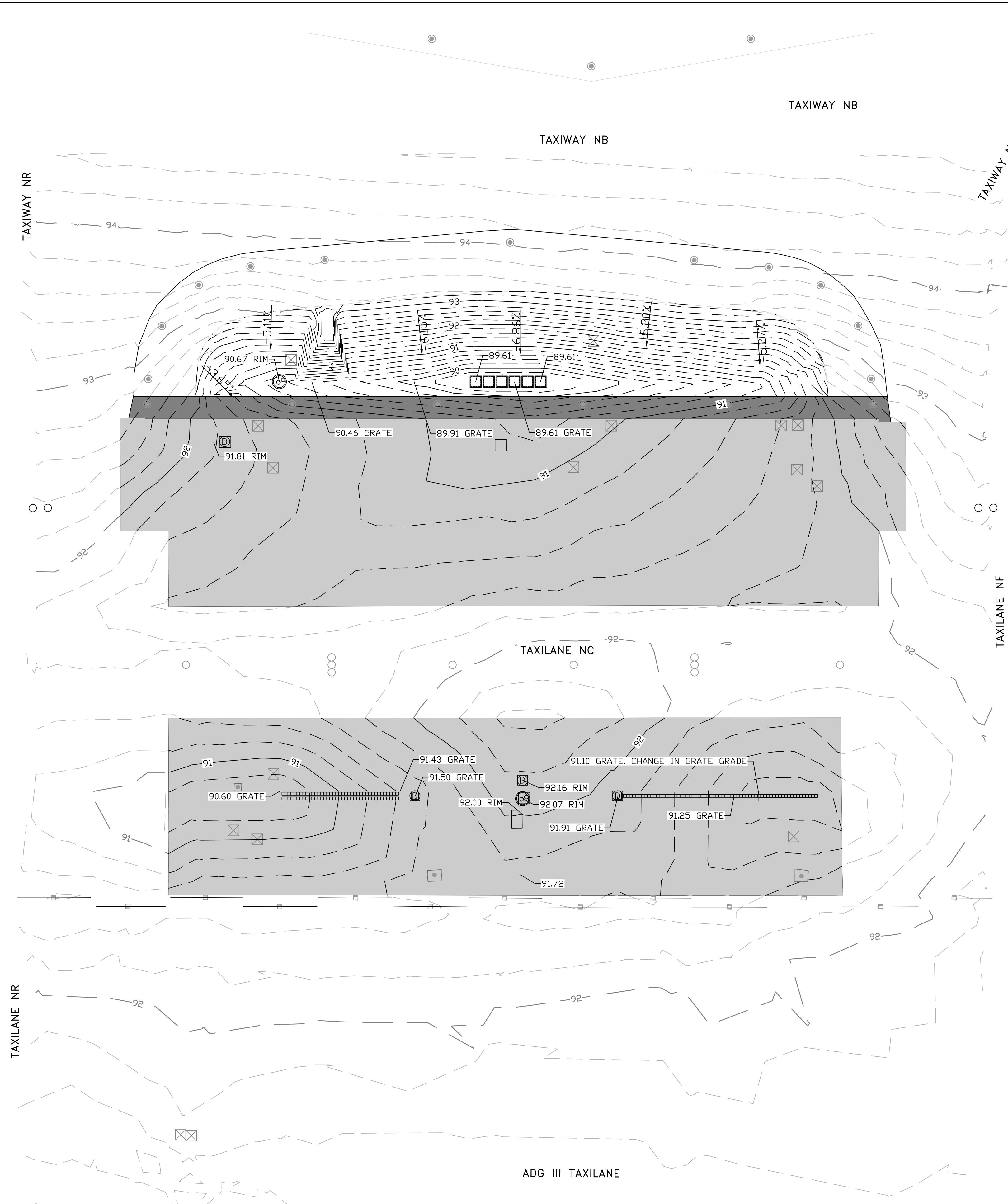
NOTES:

- SPALL REPAIR DETAILS ARE ADDED AS A GUIDE FOR REPAIR OF CONCRETE IN THE EVENT THAT THE CONTRACTOR DAMAGES ANY CONCRETE PANELS.
- SPALL REPAIRS IN EXISTING PAVEMENT SHALL BE PAID FOR UNDER ITEM P-101, "PREPARATION/REMOVAL OF EXISTING PAVEMENTS." SEE PARAGRAPH 501-5.1.
- SPALLS IN NEW PAVEMENT ARE TO BE REPAIRED AT THE CONTRACTOR'S EXPENSE PER ITEM P501, "PORTLAND CEMENT CONCRETE PAVEMENT." SEE PARAGRAPH 501-4.19.
- LOCATION OF REPAIR TO BE DETERMINED IN THE FIELD, CLEARLY MARKED, AND APPROVED BY THE HAS OAR.



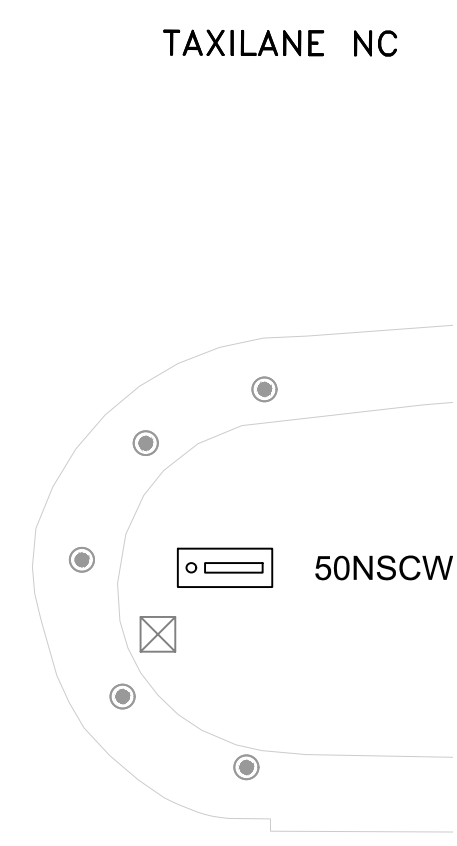
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LEGEND

- (SS1)— EXISTING STORM SEWER
- (SS2)— EXISTING STORM SEWER
- (ENV1)— EXISTING GLYCOL
- EXISTING MAJOR CONTOUR
- - - EXISTING MINOR CONTOUR
- PROPOSED MAJOR CONTOUR
- - - PROPOSED MINOR CONTOUR
- PROPOSED INLET
- ▤ PROPOSED TRENCH DRAIN
- ⊙ PROPOSED STORMCEPTOR

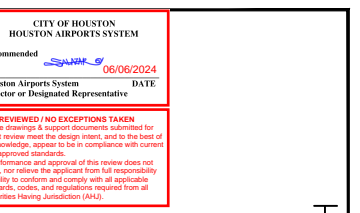


VSR

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 Suite 3425
 Houston, Texas 77079
 (832) 494-3800
 TBPE Firm Registration No. F-10161

REVISIONS		
NO.	DESCRIPTION	DATE



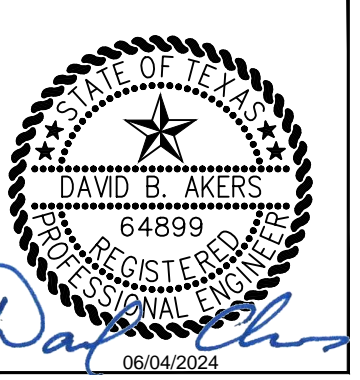
ISSUED FOR PERMIT

PROJECT MGR: DA
 DESIGNER: IK
 DRAWN BY: IK
 CHECKED BY: BS
 SCALE: 1" = 40'
 DATE: 06/03/2024

TERMINAL A NORTH IRON PARKING
 AT GEORGE BUSH INTERCONTINENTAL AIRPORT

GRADING PLAN

T.I.P. No. 23-311-IAH B.S.G. No. 2023-356-IAH



DEPARTMENT OF AVIATION	
APPROVED BY:	DATE:
HOUSTON AIRPORT SYSTEMS AUTHORIZED REPRESENTATIVE	

PROJECT NO.	PN 973
C.I.P. NO.	A-000713
H.A.S. NO.	
SHEET NO.	

SITE DESCRIPTION

PROJECT LIMITS:

EXISTING REMAIN OVER NIGHT (RON) APRON NORTHWEST OF TERMINAL A NORTH CONCOURSE AND SOUTH OF TAXIWAY NB. TAXIWAY NR IS TO THE WEST OF THE RON APRON AND TAXIWAY NF IS TO THE EAST. PAVEMENT MARKING LIMITS TO EXTEND FROM THE INTERSECTION OF TAXIWAY WW AND TAXIWAY WB TO THE WEST OF THE RON APRON AND TAXIWAY ND TO THE EAST.

PROJECT DESCRIPTION:

THIS PROJECT WILL RELOCATE AND ADD RON PARKING POSITIONS WITHIN THE NOTED LIMITS ABOVE. THE NON-MOVEMENT AREA FOR TERMINAL A WILL BE INCREASED UP TO TAXIWAY NB. CONCRETE PAVEMENT WILL BE ADDED TO THE ENTIRE SOUTH INFIELD AREA. CONCRETE PAVEMENT WILL BE ADDED TO THE NORTH INFIELD AREA AND GRADING DONE TO IMPROVE DRAINAGE. EXISTING UTILITIES WILL BE DEMOLISHED OR MODIFIED AND NEW UTILITIES INSTALLED AS NEEDED. MODIFICATIONS TO EXISTING TERMINAL A NORTH AND TAXIWAY MARKINGS WILL BE PERFORMED.

MAJOR SOIL DISTURBING ACTIVITIES:

PAVEMENT REMOVAL AND INSTALLATION, GRADING, AND STORM SEWER INSTALLATION.

TOTAL PROJECT AREA AND THE DISTURBED AREAS:

PHASE	TOTAL AREA	DISTURBED AREA
	(Ac)	(Ac)
0	1.14	0
1A	2.69	1.27
1B	0.44	0.16
1C	0.24	0.06
1D	0.76	0.73
2	4.28	0

WEIGHTED RUNOFF COEFFICIENT: (AFTER CONSTRUCTION):

COEFFICIENT = 0.95

EXISTING CONDITION OF SOIL & VEGETATIVE COVER AND % OF EXISTING VEGETATIVE COVER:

THE MAJORITY OF THE SITE IS COMPRISED OF CONCRETE PAVEMENT WITH SOME GRASSY INFIELD AREAS. SITE SOILS ARE GENERALLY CLAY WITH SOME SAND IN AREAS OF FILL. VEGETATIVE COVER IS VERY LOW AS THE DRAINAGE AREAS ARE MOSTLY CONCRETE PAVEMENT. VEGETATIVE COVER IS ESTIMATED TO BE LESS THAN 5 PERCENT.

NAME OF RECEIVING WATERS:

THE AIRPORT, LOCATED ON APPROXIMATELY 9,105 ACRES, DRAINS INTO TWO (2) MAJOR WATERSHEDS: GREENS BAYOU AND TURKEY CREEK. THE AREA DRAINING TO GREENS BAYOU IS FURTHER DIVIDED INTO THREE (3) SUB WATERSHEDS; GARNERS BAYOU, REINHARDT BAYOU, AND HOOD BAYOU.

THE INFIELD AREA IN GARNERS BAYOU IS SERVED BY EXISTING STORM SEWER SYSTEMS THAT EMPTY INTO FOUR (4) 10' X 5' BOXES IN THE APRON AREA AND DITCH G, SOUTH OF TW NA. LIKEWISE, THE AREA IN TURKEY CREEK IS SERVED BY STORM SEWER SYSTEMS THAT DRAIN TO THE WEST TO DITCH C AND NORTH TO DITCHES FW1 AND FW2.

EROSION AND SEDIMENT CONTROLS

SOIL STABILIZATION PRACTICES:

- ___ TEMPORARY SEEDING
- ___ MULCHING (HAY OR STRAW)
- ___ BUFFER ZONES
- ___ PLANTING
- ___ SEEDING & MATTING
- SODDING
- ___ PRESERVATION OF NATURAL RESOURCES
- ___ FLEXIBLE CHANNEL LINER
- ___ RIGID CHANNEL LINER
- ___ SOIL RETENTION BLANKET
- ___ COMPOST MANUFACTURED TOPSOIL
- ___ OTHER: (SPECIFY PRACTICE)

STRUCTURAL PRACTICES:

- SILT FENCES
- ___ HAY BALES
- ___ ROCK FILTER DAMS
- ___ PIPE SLOPE DRAINS
- ___ PAVED FUMES
- ___ CHANNEL LINERS
- ___ SEDIMENT TRAPS
- ___ SEDIMENT BASINS
- STORM SEWERS
- ___ DIVERSION, INTERCEPTOR, OR PERIMETER DIKES
- ___ DIVERSION, INTERCEPTOR, OR PERIMETER SWALES
- ___ DIVERSION DIKE AND SWALE COMBINATIONS
- ___ ROCK BEDDING AT CONSTRUCTION EXIT
- ___ TIMBER MATTING AT CONSTRUCTION EXIT
- ___ STONE OUTLET STRUCTURES
- ___ VELOCITY CONTROL DEVICES
- ___ CURBS AND GUTTERS
- ___ STORM INLET SEDIMENT TRAP
- ___ ROCK BERM
- OTHER: BIODEGRADABLE EROSION CONTROL LOGS

NARRATIVE – SEQUENCE OF CONSTRUCTION (STORM WATER MANAGEMENT) ACTIVITIES:

THE ORDER OF STORMWATER MANAGEMENT ACTIVITIES WILL BE IN ACCORDANCE WITH THE PHASING PLAN AND CONSISTENT WITH SWPPP LAYOUT.

STORM WATER MANAGEMENT:

THE RE-VEGETATED LANDSCAPING STRIPS WILL BE USED TO THE EXTENT PRACTICABLE FOR FLOW ATTENUATION PURPOSES.

STORM WATER FROM THE PAVEMENT WILL DISCHARGE INTO THE STORM SYSTEM.

NON-STORMWATER DISCHARGES

NON-STORMWATER DISCHARGES SHOULD BE FILTERED OR HELD IN RETENTION BASINS BEFORE BEING ALLOWED TO MIX WITH STORMWATER. THESE DISCHARGES MAY CONSIST OF CONCRETE, HYDRATED LIME, MOTOR FUEL, MOTOR OIL AND OTHER LUBRICANTS, FERTILIZERS, DETERGENTS, ADHESIVES, WATERPROOFING MATERIAL, WOOD, STEEL, PAINT, SOLVENTS, PLASTIC PIPE, SAND, CLEAN OR PORTLAND CEMENT STABILIZED, CRUSHED AGGREGATES, LIMESTONE, ROCK. SPILL PREVENTION AND GOOD HOUSEKEEPING WILL BE USED TO REDUCE THE RISK OF SPILLS OR OTHER ACCIDENTAL EXPOSURE OF MATERIALS AND SUBSTANCES TO STORMWATER RUNOFF.

OTHER REQUIREMENTS & PRACTICES

OTHER EROSION AND SEDIMENT CONTROLS:

MAINTENANCE:

ALL EROSION AND SEDIMENT CONTROLS WILL BE MAINTAINED IN GOOD WORKING ORDER. IF A REPAIR IS NECESSARY IT WILL BE DONE AT THE EARLIEST DATE POSSIBLE, BUT NO LATER THAN 7 CALENDAR DAYS AFTER THE SURROUNDING EXPOSED GROUND HAS DRIED SUFFICIENTLY TO PREVENT FURTHER DAMAGE FROM HEAVY EQUIPMENT. THE AREA ADJACENT TO CREEKS AND DRAINAGEWAYS SHALL HAVE PRIORITY FOLLOWED BY DEVICES PROTECTING STORM SEWER INLETS.

INSPECTION:

CONTRACTOR TO INSPECT AND MAINTAIN THE AREAS LISTED BELOW AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM EVENT OF ONE-HALF (0.5) INCHES OR GREATER.

- DISTURBED AREAS OF THE CONSTRUCTION SITE THAT HAVE NOT BEEN FINALLY STABILIZED.
- AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION.
- STRUCTURAL CONTROL MEASURES.
- LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE.

AN INSPECTION AND MAINTENANCE REPORT SHOULD BE MADE FOR EACH INSPECTION, BASED ON THE INSPECTION RESULTS. THE CONTROLS SHALL BE REVISED ACCORDING TO THE INSPECTION REPORT.

WASTE MATERIALS:

THE DUMPSTER USED TO STORE ALL WASTE MATERIAL WILL MEET ALL STATE AND LOCAL CITY SOLID WASTE MANAGEMENT REGULATIONS. ALL TRASH AND CONSTRUCTION DEBRIS WILL BE DEPOSITED IN THE DUMPSTER. THE DUMPSTER WILL BE EMPTIED AS NECESSARY OR AS REQUIRED BY LOCAL REGULATION AND THE TRASH WILL BE HAULED TO A LOCAL DUMP. NO CONSTRUCTION WASTE MATERIAL WILL BE BURIED ON SITE.

HAZARDOUS WASTE (INCLUDING SPILL REPORTING):

IN THE EVENT OF A SPILL WHICH MAY BE CONSIDERED HAZARDOUS, OR FOR ANY OTHER EMERGENCIES CONTACT GEORGE BUSH INTERCONTINENTAL AIRPORT RESCUE AND FIRE PERSONNEL AT 911 FOLLOWED BY A CALL TO HOUSTON OPERATIONS AT (281) 233-1131.

SANITARY WASTE:

N/A

OFFSITE VEHICLE TRACKING:

THE CONTRACTOR SHALL BE REQUIRED, ON A REGULAR BASIS OR AS MAY BE DIRECTED BY THE ENGINEER, TO DAMPEN HAUL ROADS FOR DUST CONTROL, STABILIZE CONSTRUCTION ENTRANCES AND TO REMOVE EXCESS DIRT FROM THE ROADWAY.

REMARKS:

DISPOSAL AREAS, STOCKPILES, AND HAUL ROADS SHALL BE CONSTRUCTED IN A MANNER THAT WILL MINIMIZE AND CONTROL THE SEDIMENT THAT MAY ENTER RECEIVING WATERWAYS. DISPOSAL AREAS SHALL NOT BE LOCATED IN ANY WATERWAY, WATERBODY OR STREAMBED. CONSTRUCTION STAGING AREAS AND VEHICLE MAINTENANCE AREAS SHALL BE CONSTRUCTED BY THE CONTRACTOR IN A MANNER WHICH MINIMIZES THE RUNOFF OF ALL POLLUTANTS. ALL WATERWAYS SHALL BE CLEARED AS SOON AS PRACTICAL OF TEMPORARY EMBANKMENTS, TEMPORARY BRIDGES, MATTING, FALSEWORK, PILING, DEBRIS, AND OTHER OBSTRUCTIONS PLACED DURING CONSTRUCTION OPERATIONS THAT ARE NOT PART OF THE FINISHED WORK.



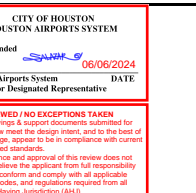
GEORGE BUSH INTERCONTINENTAL AIRPORT HOUSTON, TEXAS



13501 Katy Freeway
Suite 3425
Houston, Texas 77079
(832) 494-3800
TBPE Firm Registration No. F-10161

REVISIONS

NO. DESCRIPTION DATE BY



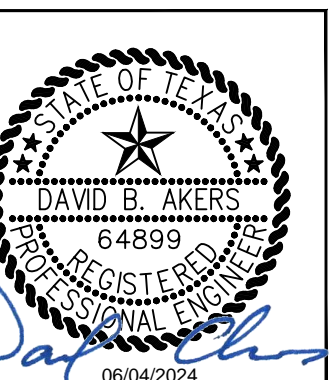
TERMINAL A NORTH RON PARKING
AT GEORGE BUSH INTERCONTINENTAL AIRPORT

SW3P DATA SHEET

T.I.P. No. 23-311-IAH B.S.C. No. 2023-356-IAH

ISSUED FOR PERMIT

PROJECT MGR: DA
DESIGNER: IK
DRAWN BY: IK
CHECKED BY: BS
SCALE: NTS
DATE: 06/03/2024

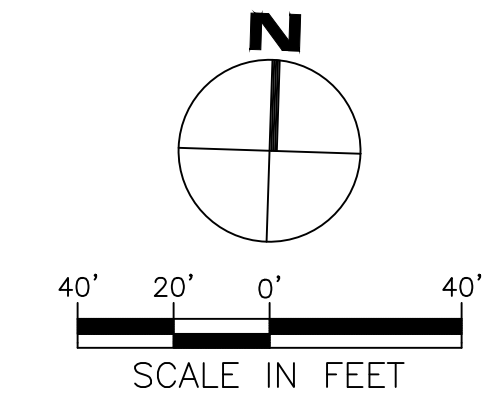
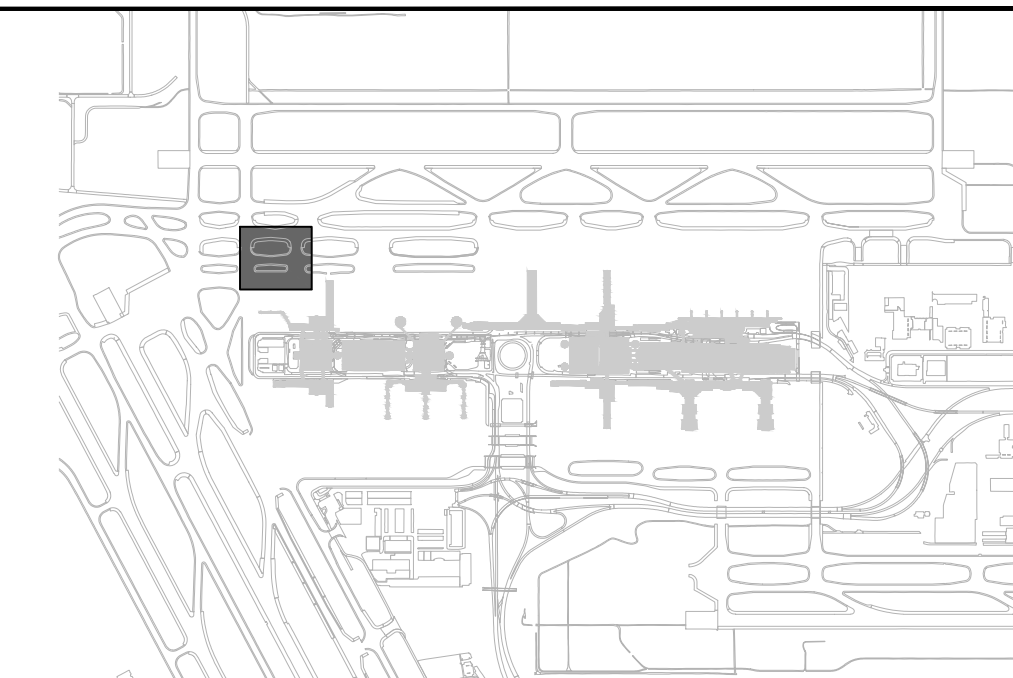
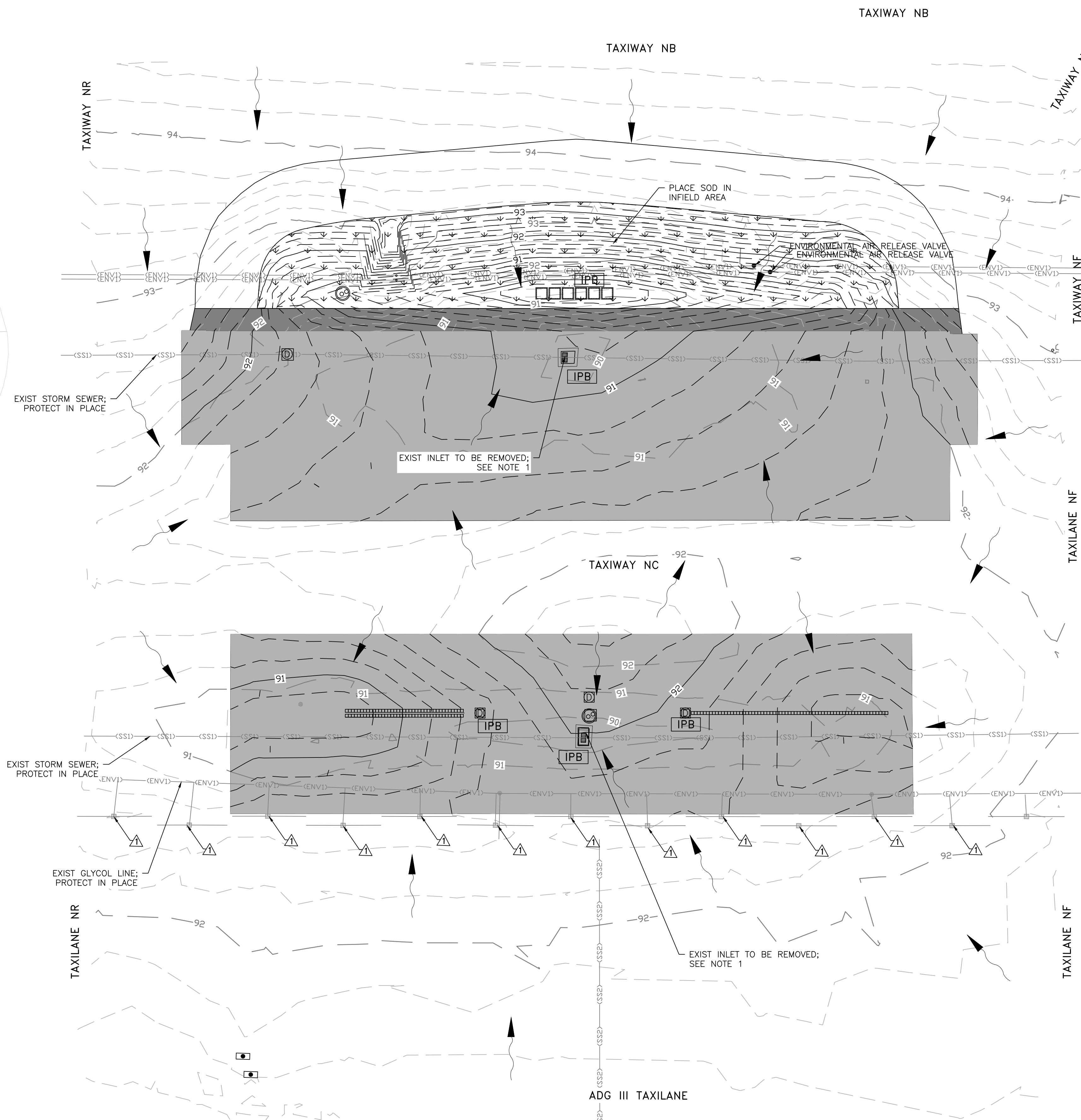


DEPARTMENT OF AVIATION
APPROVED BY: DATE:
HOUSTON AIRPORT SYSTEMS
AUTHORIZED REPRESENTATIVE

PROJECT NO.
PN 973
C.I.P. NO.
A-000713
H.A.S. NO.
SHEET NO.

CG.02

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LEGEND

- INLET PROTECTION BARRIER
- PROPOSED SOD
- PROPOSED CONCRETE
- PROPOSED ASPHALT SHOULDER
- EXISTING INLET
- EXISTING MANHOLE
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- EXISTING DRAINAGE FLOW

NOTES:

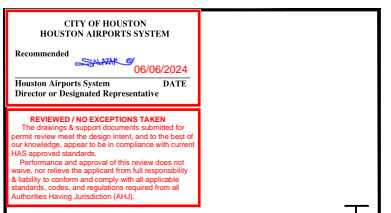
1. SEE SHEET CG.04 FOR SW3P DETAILS.
2. EXISTING INLETS TO BE PROTECTED IN PLACE WITH EROSION CONTROL LOGS UNTIL DEMOLISHED.

KEYED NOTES:

- PROTECT SLOTTED DRAIN AND INLET FOR GLYCOL LINE USING BMP. DO NOT DAMAGE CONCRETE PAVEMENT PANEL CONNECTED TO THE SLOTTED DRAIN.

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TERMINAL A NORTH IRON PARKING
 AT GEORGE BUSH INTERCONTINENTAL AIRPORT
SW3P PLAN
 T.I.P. No. 23-311-IAH B.S.G. No. 2023-356-IAH

ISSUED FOR PERMIT	
PROJECT MGR:	DA
DESIGNER:	ZJ
DRAWN BY:	ZJ
CHECKED BY:	BS
SCALE:	1" = 40'
DATE:	06/03/2024

DEPARTMENT OF AVIATION	
APPROVED BY:	DATE:
HOUSTON AIRPORT SYSTEMS AUTHORIZED REPRESENTATIVE	

PROJECT NO.	PN 973
C.I.P. NO.	A-000713
H.A.S. NO.	
SHEET NO.	



HOUSTON AIRPORT SYSTEM

GEORGE BUSH INTERCONTINENTAL AIRPORT HOUSTON, TEXAS



13501 Katy Freeway Suite 3425 Houston, Texas 77079 (832) 494-3800 TBPE Firm Registration No. F-10161

REVISIONS			
NO.	DESCRIPTION	DATE	BY
ADDENDUM 1	XX/XX/XX	XXX	

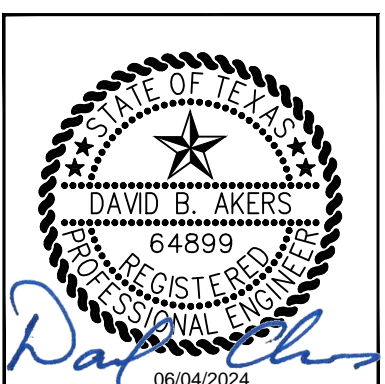


TERMINAL A NORTH IRON PARKING AT GEORGE BUSH INTERCONTINENTAL AIRPORT

SW3P DETAILS

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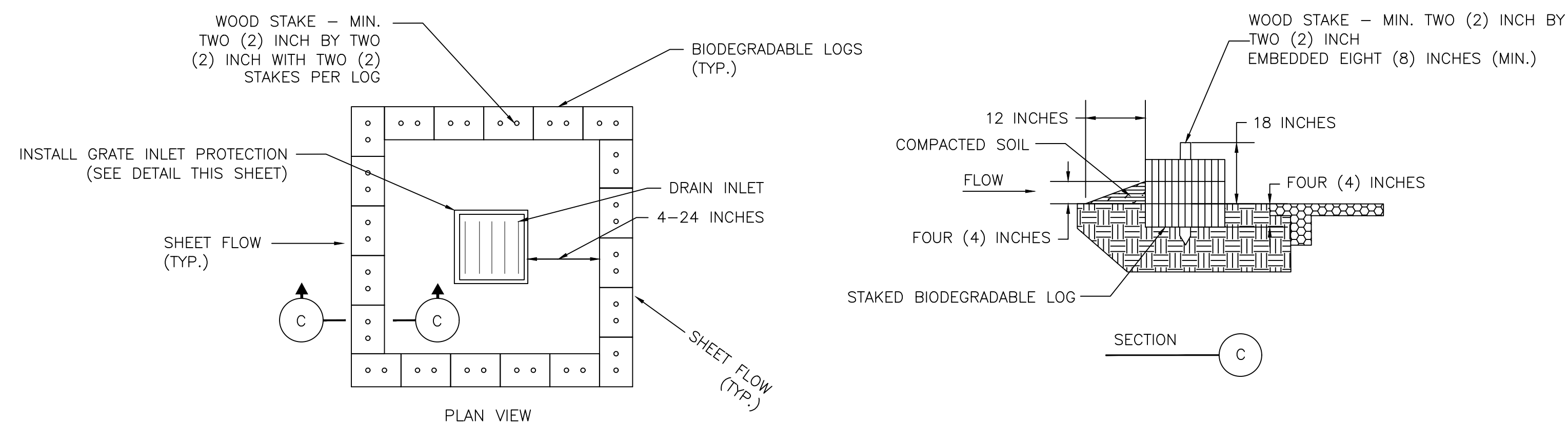
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PROJECT MGR:	DA
DESIGNER:	ZJ
DRAWN BY:	ZJ
CHECKED BY:	BS
SCALE:	NTS
DATE:	06/03/2024



DEPARTMENT OF AVIATION	
APPROVED BY:	DATE:
HOUSTON AIRPORT SYSTEMS AUTHORIZED REPRESENTATIVE	

PROJECT NO.	PN 973
C.I.P. NO.	A-000713
H.A.S. NO.	
SHEET NO.	

CG.04



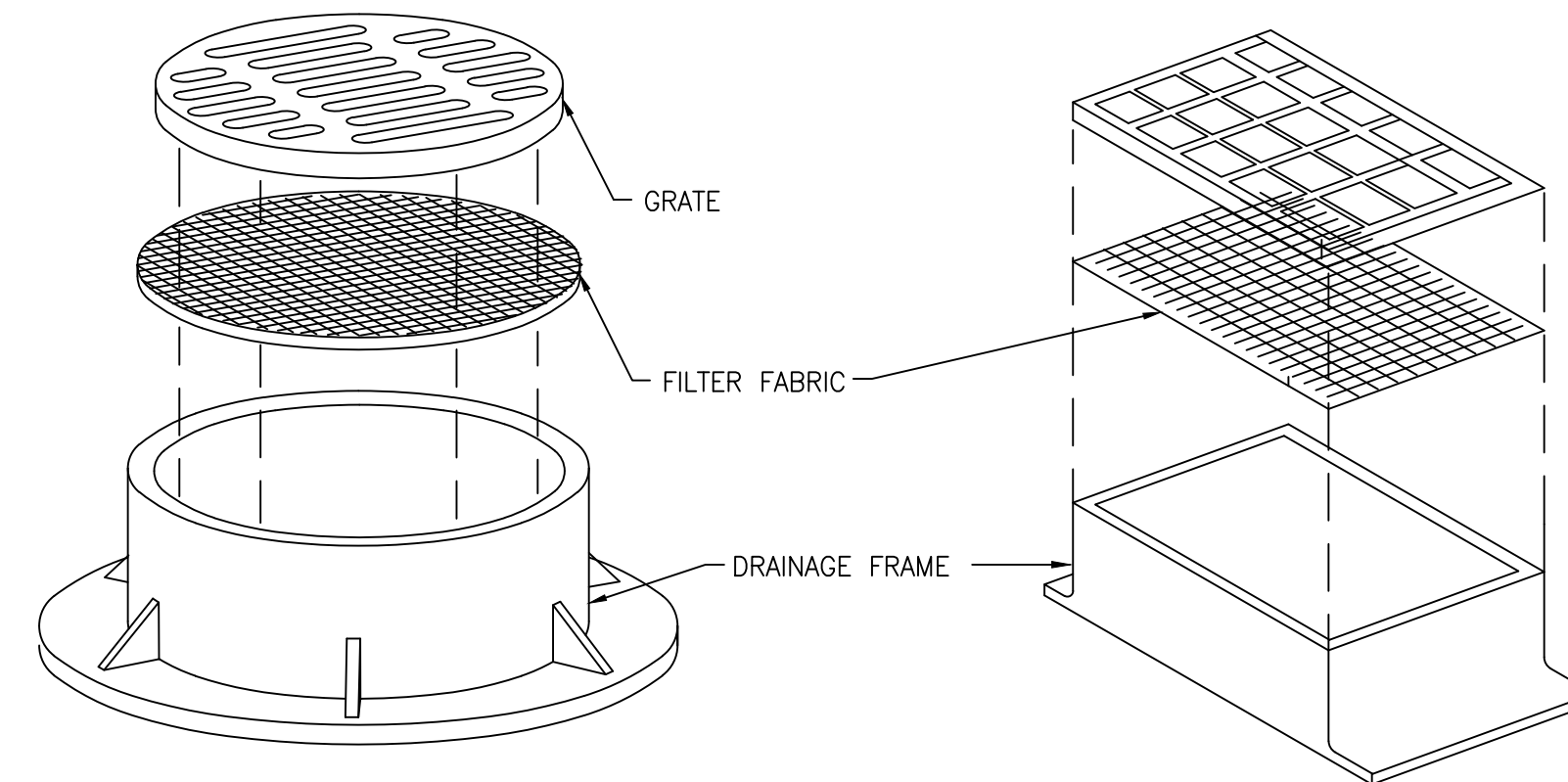
NOTES:

1. REMOVE SEDIMENT DEPOSIT WHEN THE SEDIMENT HAS ACCUMULATED TO ONE-THIRD THE HEIGHT OF THE BARRIER.
2. SEE FAA SPECIFICATION P-156, TEMPORARY AIR AND WATER POLLUTION CONTROL, SOIL EROSION, AND SILTATION CONTROL, FOR IMPLEMENTATION OF INLET PROTECTION BARRIERS.

1 CG.04

INLET PROTECTION BARRIER

SCALE:NTS



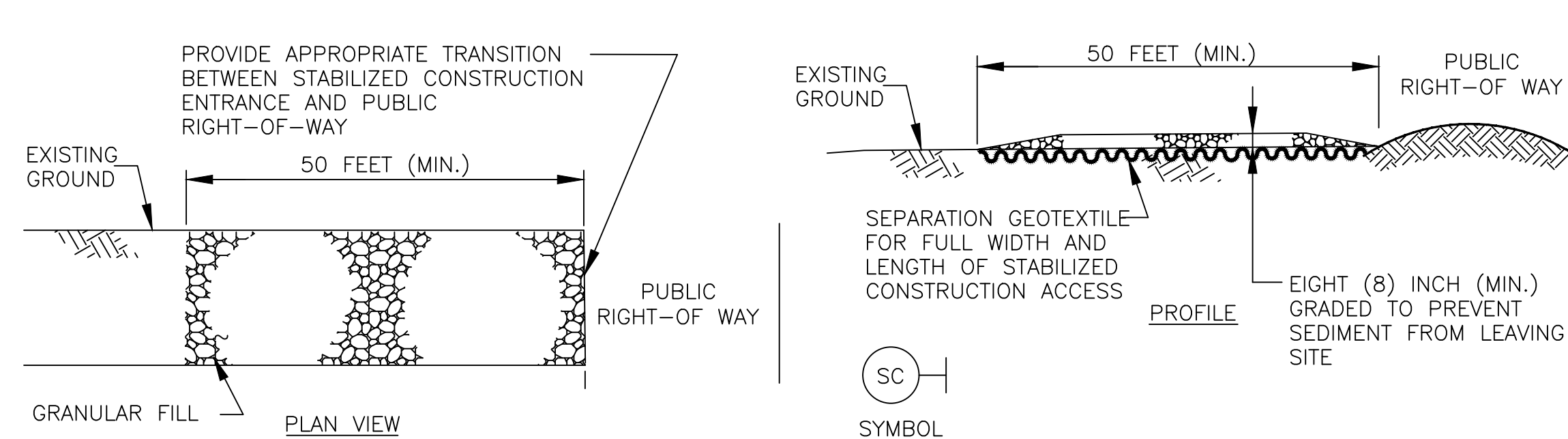
NOTES:

1. FILTER FABRIC TO BE PLACED IN ALL INLETS, MANHOLES, TRENCH DRAINS AND CATCH BASINS.
2. FABRIC SHALL AS SPECIFIED IN FAA SPECIFICATION P-156, TEMPORARY AIR AND WATER POLLUTION CONTROL, SOIL EROSION, AND SILTATION CONTROL.
3. FABRIC SHALL OVERLAY FRAME BY TWO (2) INCHES (MIN.).
4. CONTRACTOR SHALL CLEAR DEBRIS AND SILT AS REQUIRED FROM FABRIC TO MAINTAIN DRAINAGE THROUGH THE STRUCTURE.

2 CG.04

GRATE INLET PROTECTION

SCALE:NTS



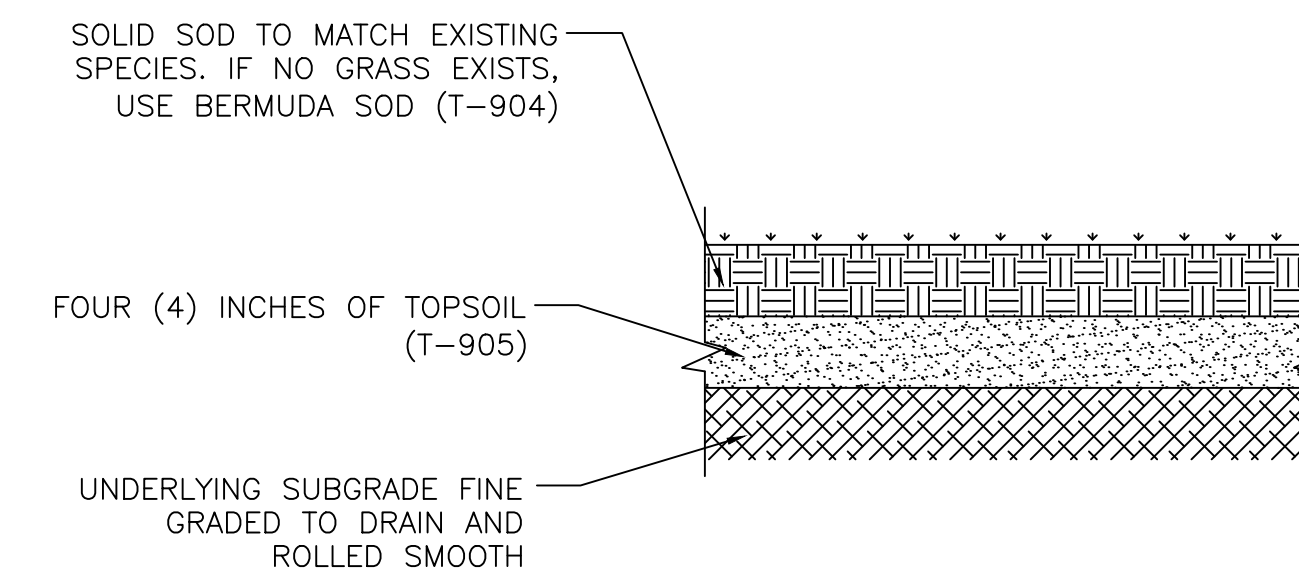
NOTES:

1. LENGTH SHALL BE AS SHOWN ON THE CONSTRUCTION DRAWINGS, BUT NOT LESS THAN 50 FEET.
2. THICKNESS SHALL BE NOT LESS THAN EIGHT (8) INCHES.
3. WIDTH SHALL BE NOT LESS THAN FULL WIDTH OF ALL POINTS OF INGRESS OR EGRESS.
4. CONSTRUCTION EXITS SHALL BE GRADED TO ALLOW DRAINAGE TO A SEDIMENT TRAPPING DEVICE.
5. PERIODICALLY TURN AGGREGATE AND / OR PROVIDE PERIODIC TOP DRESSING WITH ADDITIONAL COARSE AGGREGATE TO EXPOSE CLEAN DRIVING SURFACE WHEN SURFACE BECOMES PACKED WITH MUD.
6. STABILIZATION FOR OTHER AREAS SHALL HAVE THE SAME AGGREGATE THICKNESS AND WIDTH REQUIREMENTS AS THE STABILIZED CONSTRUCTION ACCESS, UNLESS OTHERWISE SHOWN ON THE CONSTRUCTION DRAWINGS.
7. STABILIZED AREA MAY BE WIDENED OR LENGTHENED TO ACCOMMODATE A WASHING AREA. AN OUTLET SEDIMENT TRAP MUST BE PROVIDED FOR THE WASHING AREA.
8. SEE SECTION 01575, STABILIZED CONSTRUCTION EXIT, FOR IMPLEMENTATION OF STABILIZED CONSTRUCTION EXITS.
9. STABILIZED CONSTRUCTION ACCESS SHALL BE MAINTAINED FREE OF SEDIMENT FOR THE DURATION OF THE PROJECT.
10. STABILIZED CONSTRUCTION EXITS SHALL BE INSTALLED AT ALL LOCATIONS WHERE MOVING FROM UNPAVED TO PAVED SURFACE.

3 CG.04

STABILIZED CONSTRUCTION EXIT

SCALE:NTS



NOTES:

1. SOD TO BE APPROVED BY HAS QUALIFIED AIRFIELD WILDLIFE BIOLOGIST.
2. SOD SHALL BE PLACED WITH NO GAPS BETWEEN ADJACENT SOD BLOCKS.
3. AREA TO BE SODDED SHALL BE FINE GRADED TO DRAIN AND ROLLED SMOOTH. ALL FOREIGN OBJECTS SHALL BE REMOVED PRIOR TO SODDING.
4. ALL SODDED AREAS SHALL BE ROLLED WITH HEAVY LAWN ROLLERS TO SET THE SOD. THE ROLLED SOD SHALL DRAIN FREELY AND CONTAIN NO RUTS, DEPRESSIONS, OR RIDGES.
5. CONTRACTOR SHALL WATER SOD AS NECESSARY TO ESTABLISH GROWTH AND REPLACE ANY SOD WHICH DIES WITHIN A ONE (1) YEAR PERIOD.
6. SOD SHALL BE PLACED SUCH THAT A 1-1/2" LIP IS CREATED FROM THE TOP OF THE ADJACENT PAVEMENT TO THE TOP OF THE SOD.

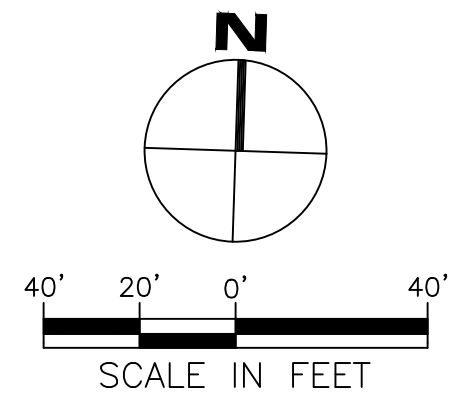
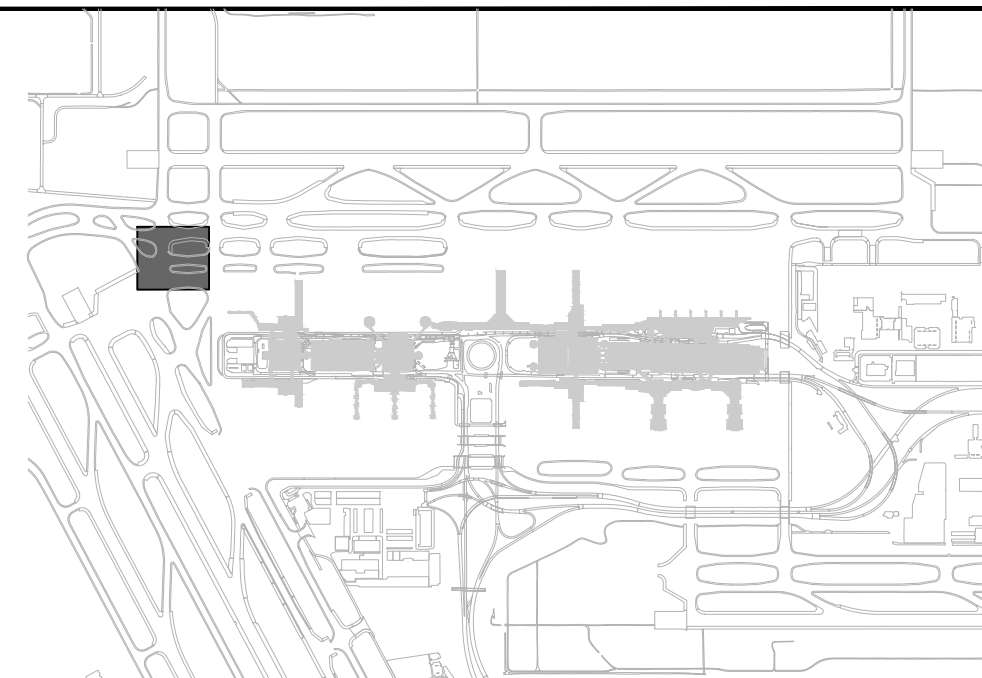
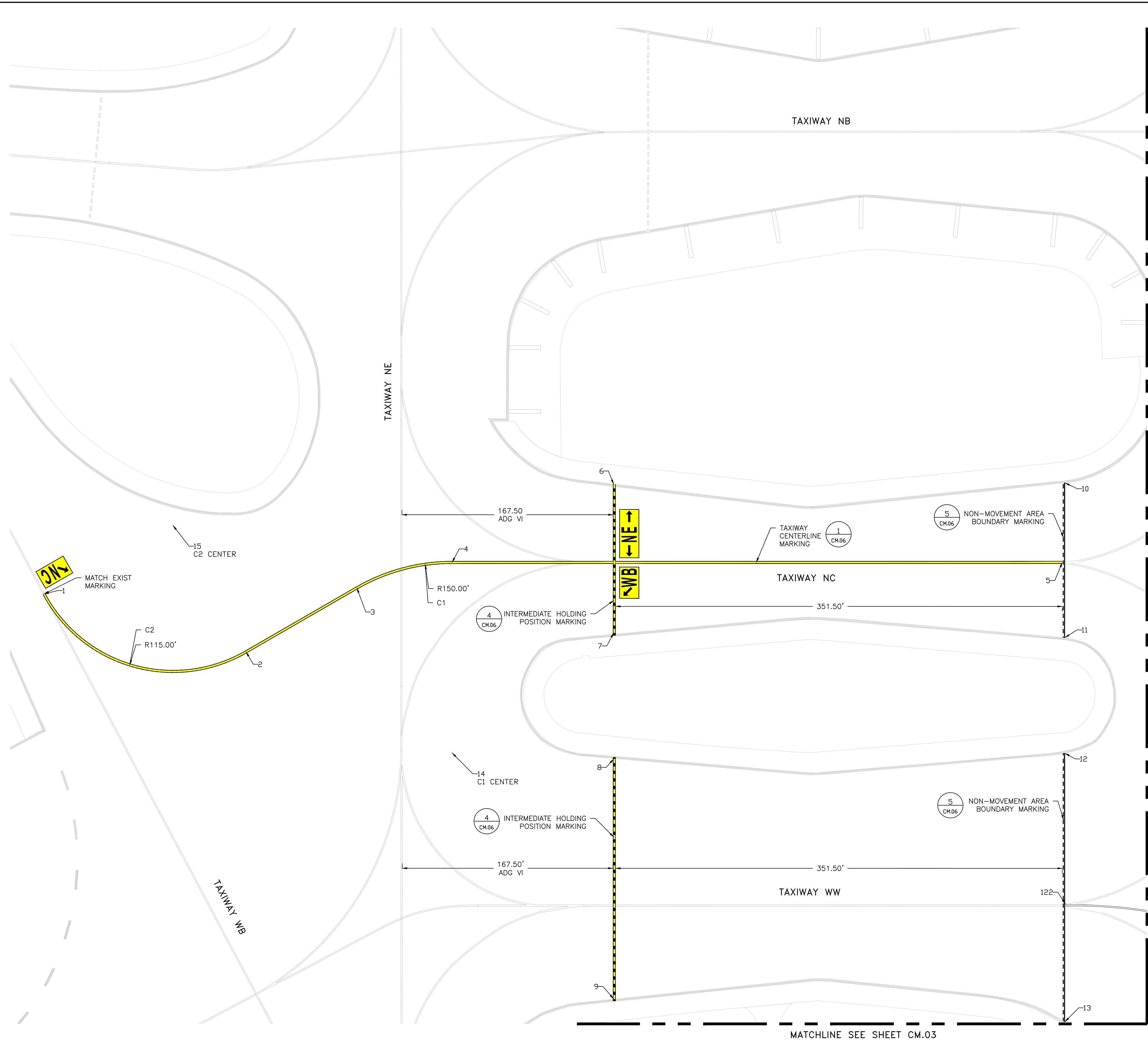
4 CG.04

SODDING

SCALE:NTS

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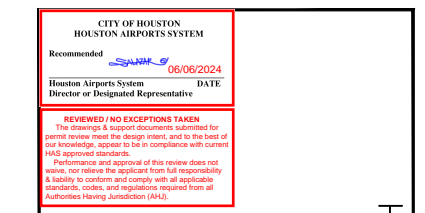
NOTES:

1. CONTRACTOR SHALL SURVEY EXISTING TAXIWAY CENTERLINE MARKINGS AS INDICATED FOR LAYOUT OF TEMPORARY PAINTED MARKINGS PER PHASING REQUIREMENTS AND LAYOUT OF PERMANENT PAINTED MARKINGS AFTER COMPLETION OF PAVEMENT CONSTRUCTION. PROVIDE SURVEY DATA TO OWNER'S REPRESENTATIVE FOR CONFIRMATION.
2. CONTRACTOR SHALL REPAINT/REFRESH EXISTING STRIPING WITHIN THE PROJECT AREA. CONTRACTOR TO COORDINATE WITH HAS OAR.
3. SEE SHEET CM.05 FOR POINT TABLES

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 Suite 3425
 Houston, Texas 77079
 (832) 494-3800
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REVISIONS

NO.	DESCRIPTION	DATE	BY



TERMINAL A NORTH RON PARKING
 AT GEORGE BUSH INTERCONTINENTAL AIRPORT

PAVEMENT MARKING PLAN

T.I.P. No. 23-311-IAH B.S.G. No. 2023-356-IAH

ISSUED FOR PERMIT

PROJECT MGR:	DA
DESIGNER:	ZJ
DRAWN BY:	ZJ
CHECKED BY:	BS
SCALE:	1" = 40'
DATE:	06/03/2024



DEPARTMENT OF AVIATION

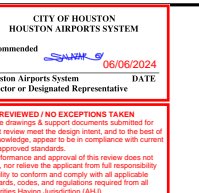
APPROVED BY:	DATE:

HOUSTON AIRPORT SYSTEMS
 AUTHORIZED REPRESENTATIVE

PROJECT NO.	PN 973
C.I.P. NO.	A-000713
H.A.S. NO.	
SHEET NO.	



REVISIONS		
NO.	DESCRIPTION	DATE

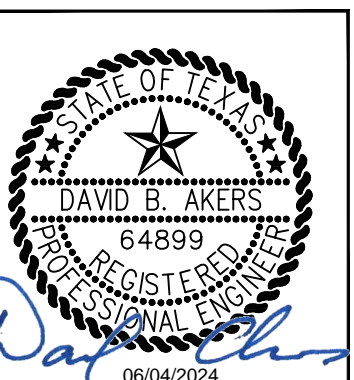


TERMINAL A NORTH IRON PARKING
 AT GEORGE BUSH INTERCONTINENTAL AIRPORT

PAVEMENT MARKING PLAN

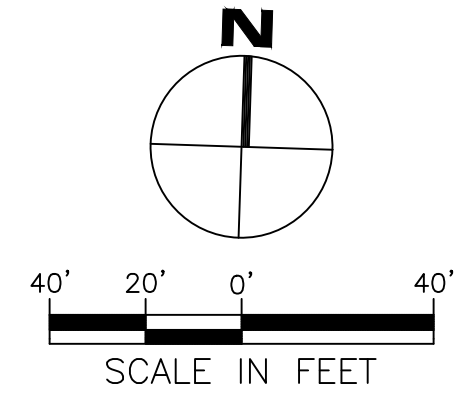
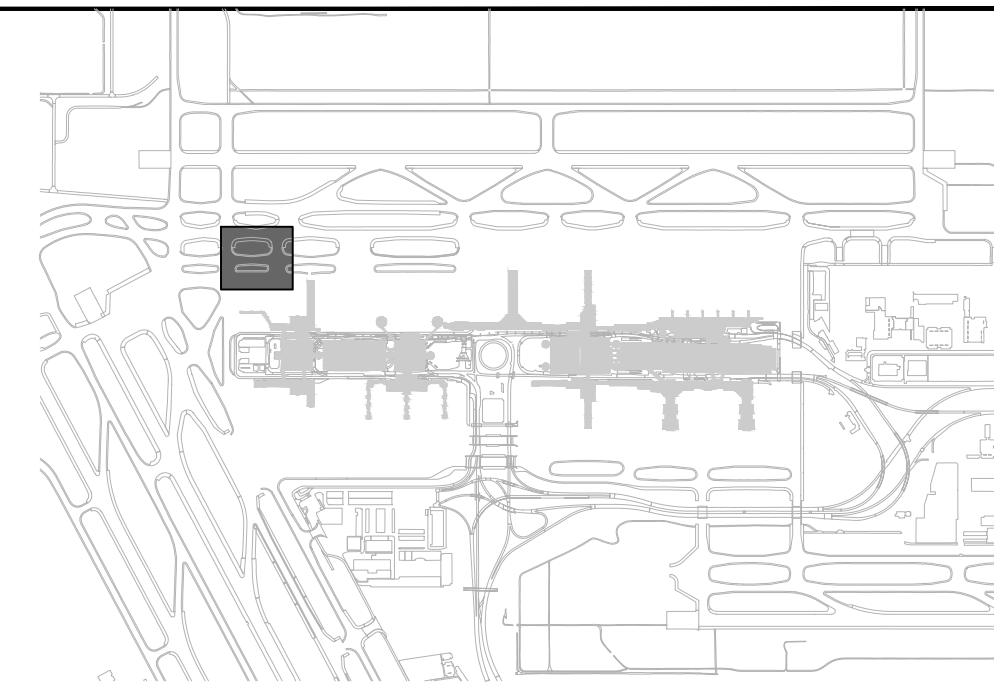
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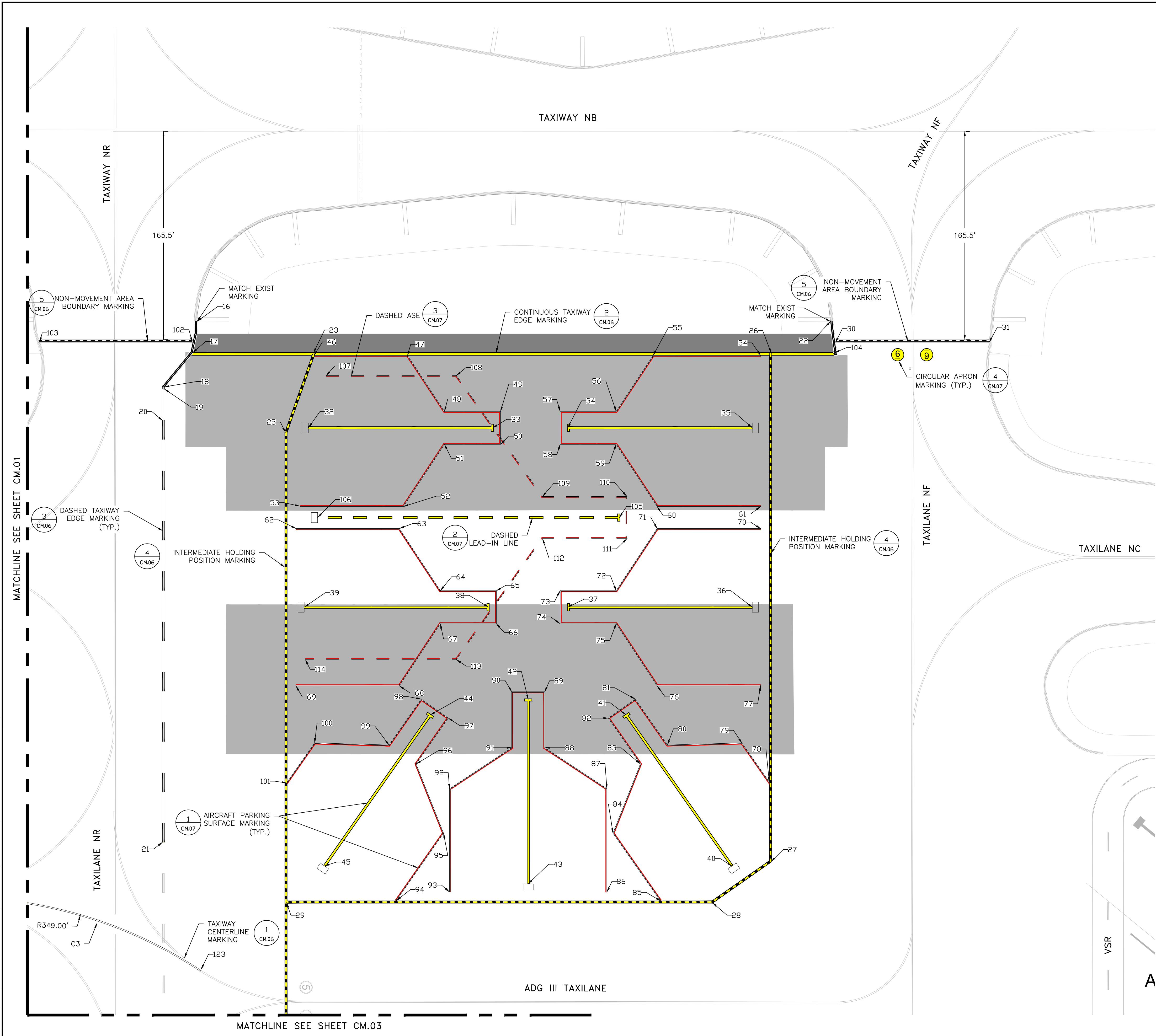


LEGEND

- PROPOSED ASPHALT SHOULDER
- PROPOSED CONCRETE PAVEMENT

NOTES:

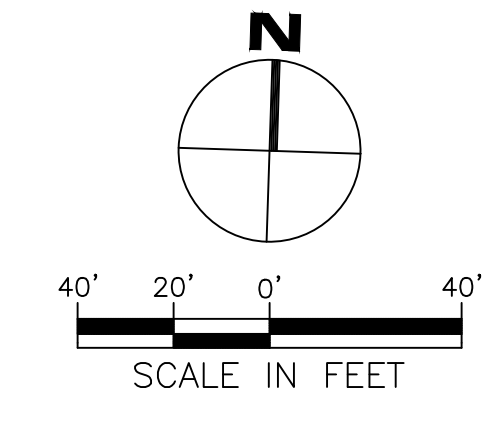
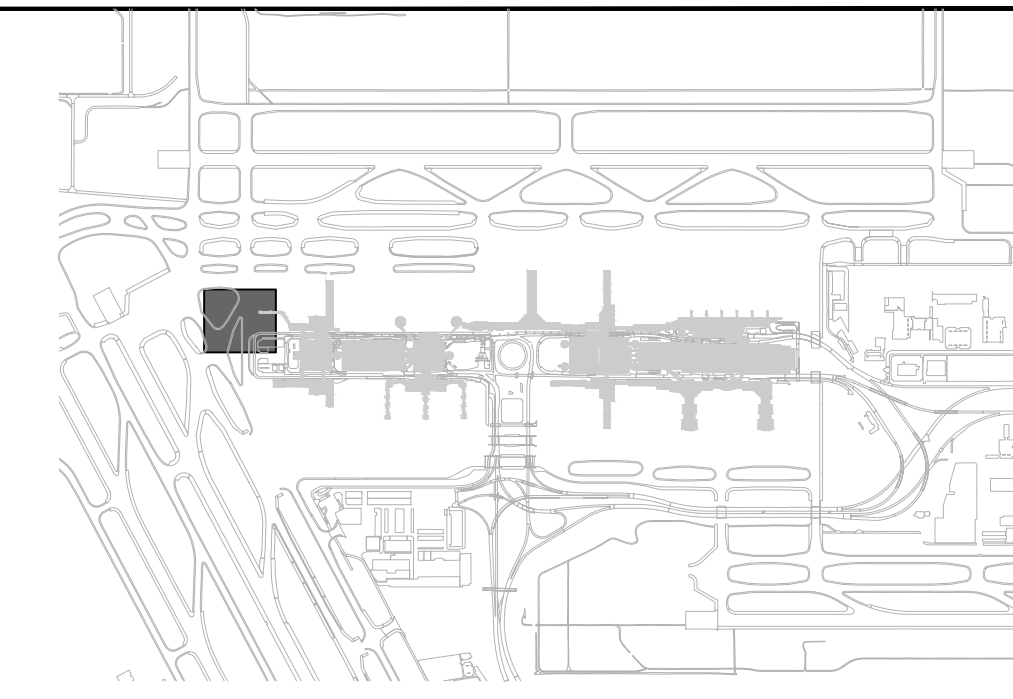
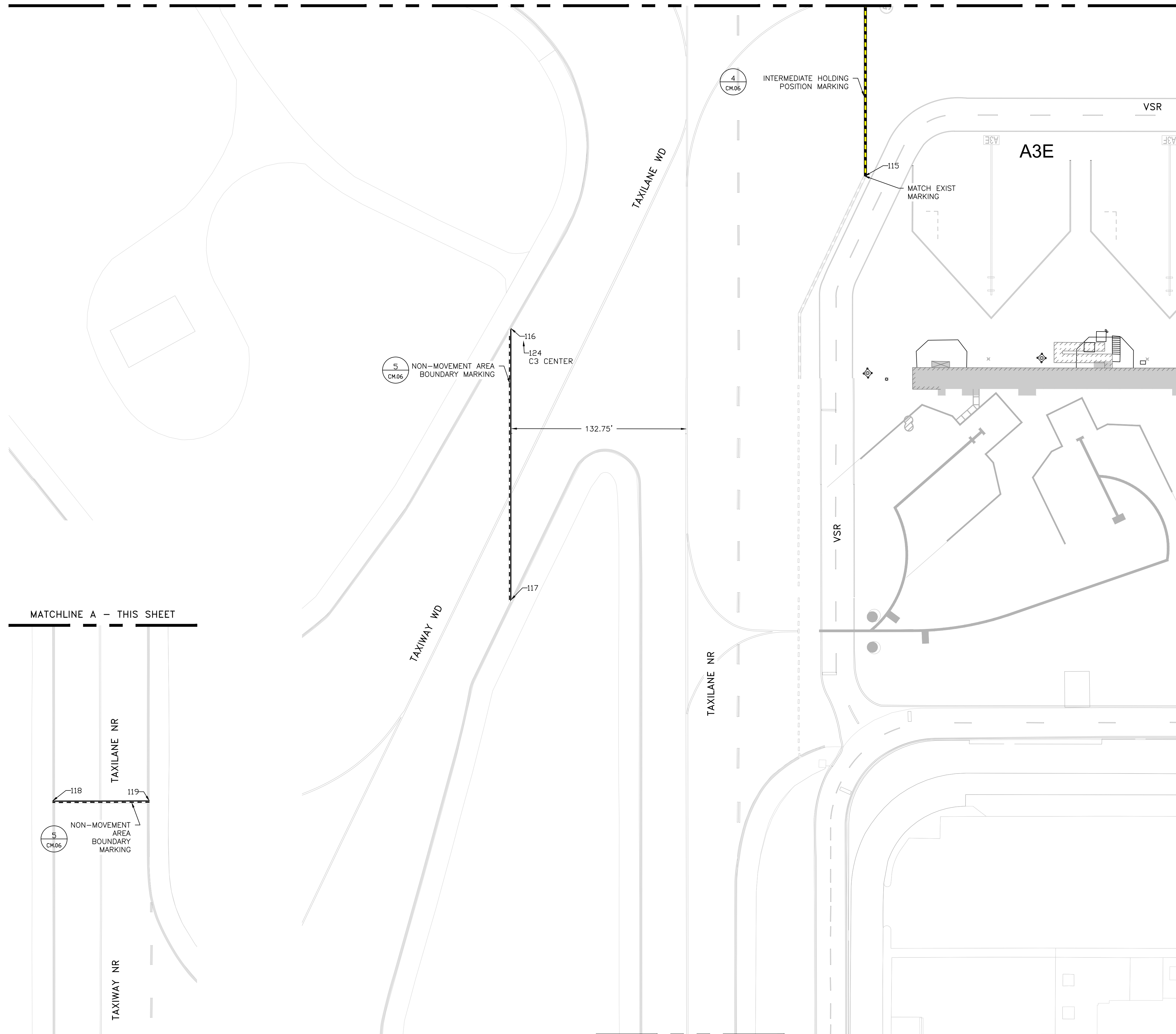
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- SEE SHEET CM.05 FOR POINT TABLES



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MATCHLINE SEE SHEET CM.01/CM.02



LEGEND

NOTES:

- CONTRACTOR SHALL SURVEY EXISTING TAXIWAY CENTERLINE MARKINGS AS INDICATED FOR LAYOUT OF TEMPORARY PAINTED MARKINGS PER PHASING REQUIREMENTS AND LAYOUT OF PERMANENT PAINTED MARKINGS AFTER COMPLETION OF PAVEMENT CONSTRUCTION. PROVIDE SURVEY DATA TO OWNER'S REPRESENTATIVE FOR CONFIRMATION.
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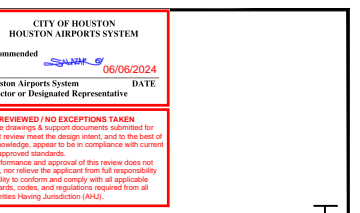
MATCHLINE A - THIS SHEET

MATCHLINE A - THIS SHEET

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 TBPE Firm Registration No. F-10161

REVISIONS

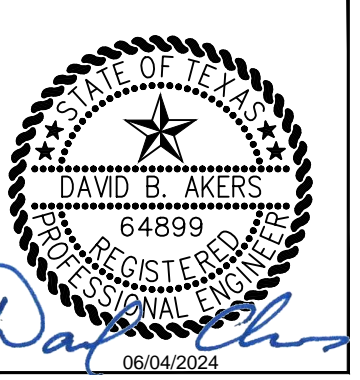
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TERMINAL A NORTH IRON PARKING
 AT GEORGE BUSH INTERCONTINENTAL AIRPORT
PAVEMENT MARKING PLAN
 T.I.P. No. 23-311-IAH B.S.G. No. 2023-356-IAH

ISSUED FOR PERMIT

PROJECT MGR:	DA
DESIGNER:	ZJ
DRAWN BY:	ZJ
CHECKED BY:	BS
SCALE:	1" = 40'
DATE:	06/03/2024



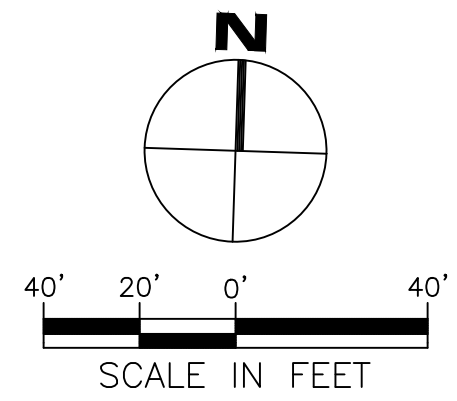
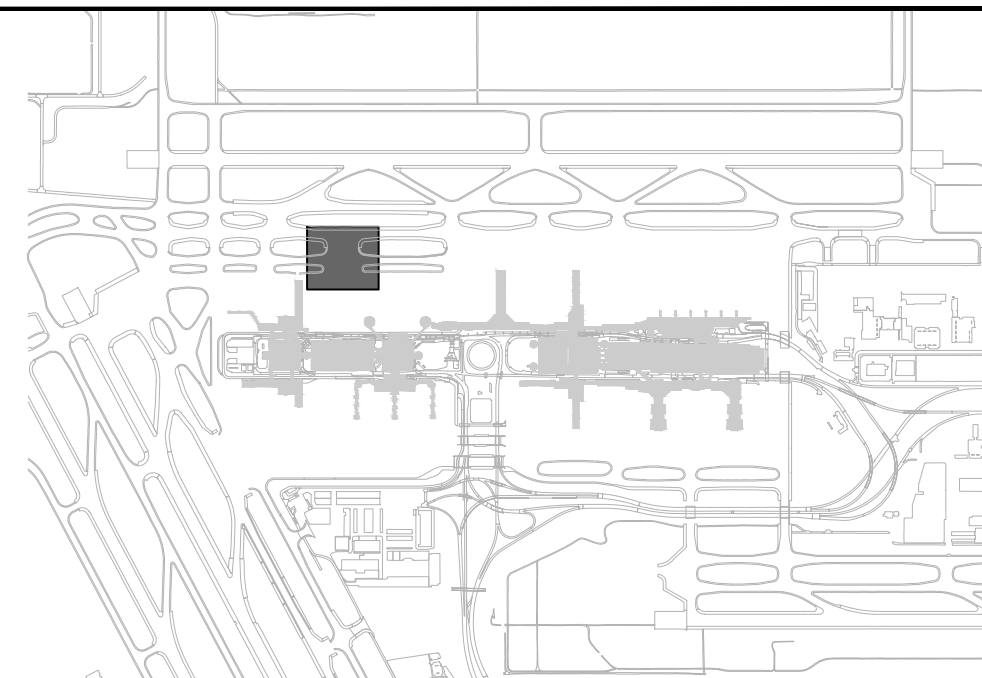
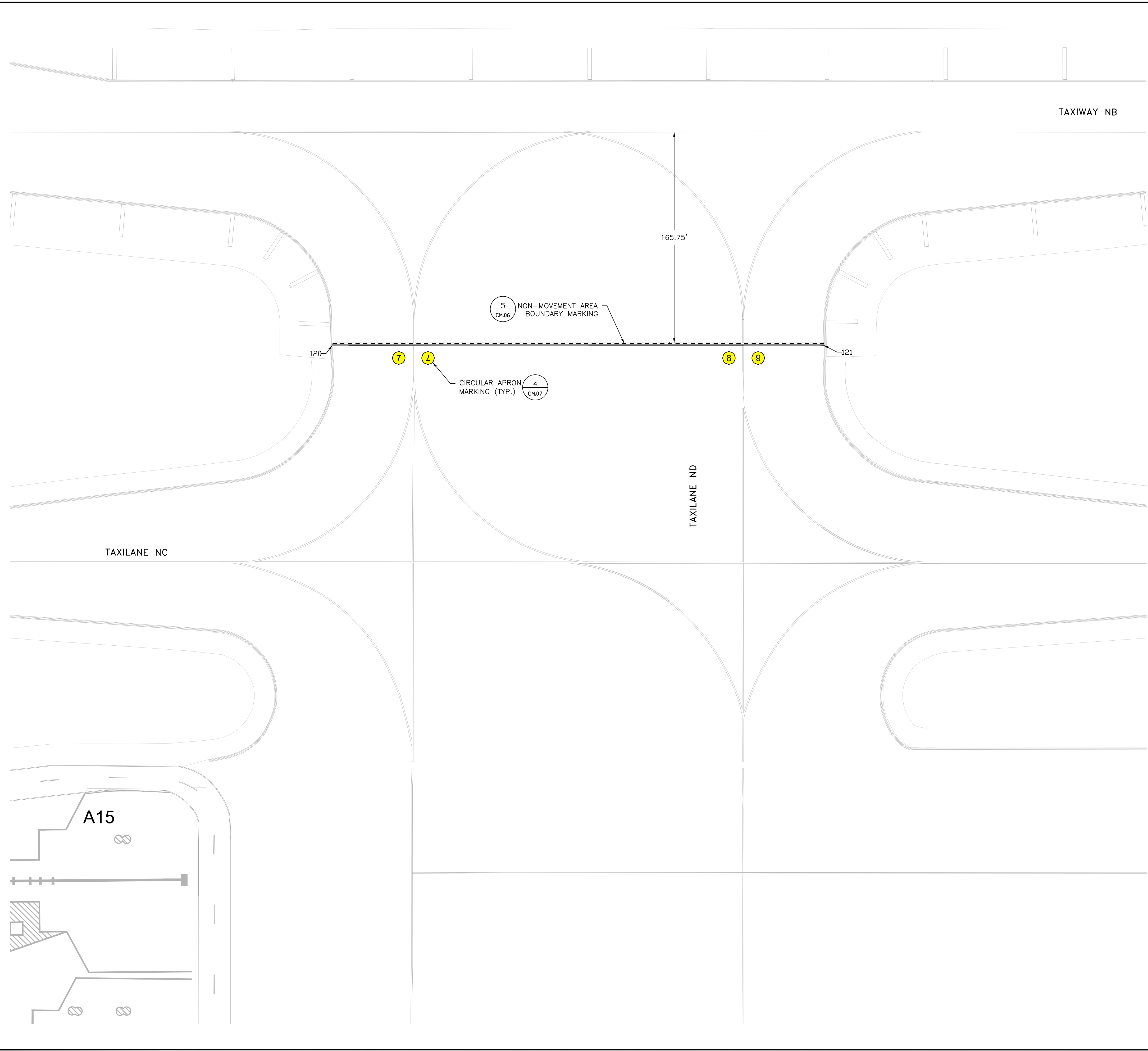
DEPARTMENT OF AVIATION

APPROVED BY:	DATE:

HOUSTON AIRPORT SYSTEMS
 AUTHORIZED REPRESENTATIVE

PROJECT NO.	PN 973
C.I.P. NO.	A-000713
H.A.S. NO.	
SHEET NO.	

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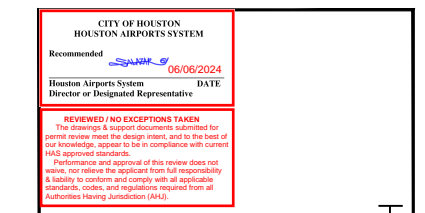
LEGEND

NOTES:

1. CONTRACTOR SHALL SURVEY EXISTING TAXIWAY CENTERLINE MARKINGS AS INDICATED FOR LAYOUT OF TEMPORARY PAINTED MARKINGS PER PHASING REQUIREMENTS AND LAYOUT OF PERMANENT PAINTED MARKINGS AFTER COMPLETION OF PAVEMENT CONSTRUCTION. PROVIDE SURVEY DATA TO OWNER'S REPRESENTATIVE FOR CONFIRMATION.
2. CONTRACTOR SHALL REPAINT/REFRESH EXISTING STRIPING WITHIN THE PROJECT AREA. CONTRACTOR TO COORDINATE WITH HAS OAR.
3. SEE SHEET CM.05 FOR POINT TABLES

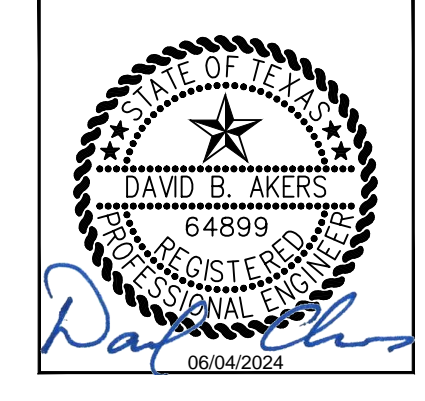
IEA
 13501 Katy Freeway
 Suite 3425
 Houston, Texas 77079
 (832) 494-3800
 TBPE Firm Registration No. F-10161

REVISIONS			
NO.	DESCRIPTION	DATE	BY



TERMINAL A NORTH IRON PARKING
 AT GEORGE BUSH INTERCONTINENTAL AIRPORT
PAVEMENT MARKING PLAN
 T.I.P. No. 23-311-IAH B.S.G. No. 2023-356-IAH

ISSUED FOR PERMIT	
PROJECT MGR:	DA
DESIGNER:	ZJ
DRAWN BY:	ZJ
CHECKED BY:	BS
SCALE:	1" = 40'
DATE:	06/03/2024



DEPARTMENT OF AVIATION	
APPROVED BY:	DATE:

PROJECT NO.	PN 973
C.I.P. NO.	A-000713
H.A.S. NO.	
SHEET NO.	

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PAVEMENT MARKING POINT LOCATION			
POINT #	NORTHING	EASTING	DESCRIPTION
1	13926510.89	3122199.66	TAXIWAY CENTERLINE
2	13926470.41	3122360.09	TAXIWAY CENTERLINE
3	13926523.58	3122445.71	TAXIWAY CENTERLINE
4	13926546.08	3122520.03	TAXIWAY CENTERLINE
5	13926561.53	3123000.41	TAXIWAY CENTERLINE
6	13926611.64	3122645.29	INTERMEDIATE HOLDING POSITION
7	13926494.70	3122649.05	INTERMEDIATE HOLDING POSITION
8	13926395.40	3122652.25	INTERMEDIATE HOLDING POSITION
9	13926206.49	3122658.32	INTERMEDIATE HOLDING POSITION
10	13926624.28	3123000.39	NON-MOVEMENT AREA BOUNDARY
11	13926502.33	3123004.31	NON-MOVEMENT AREA BOUNDARY
12	13926411.38	3123007.24	NON-MOVEMENT AREA BOUNDARY
13	13926199.86	3123014.04	NON-MOVEMENT AREA BOUNDARY
14	13926396.16	3122524.85	CENTER OF RADIUS
15	13926568.10	3122299.42	CENTER OF RADIUS
16	13926755.54	3123195.65	CONTINUOUS TAXIWAY EDGE
17	13926730.47	3123192.84	CONTINUOUS TAXIWAY EDGE
18	13926702.74	3123171.46	CONTINUOUS TAXIWAY EDGE
19	13926701.00	3123171.51	CONTINUOUS TAXIWAY EDGE
20	13926675.96	3123170.82	DASHED TAXIWAY EDGE
21	13926341.13	3123181.59	DASHED TAXIWAY EDGE
22	13926771.73	3123698.45	CONTINUOUS TAXIWAY EDGE
23	13926733.54	3123288.91	INTERMEDIATE HOLDING POSITION
25	13926669.80	3123268.57	INTERMEDIATE HOLDING POSITION
26	13926745.23	3123652.15	INTERMEDIATE HOLDING POSITION
27	13926341.26	3123665.15	INTERMEDIATE HOLDING POSITION
28	13926307.11	3123619.57	INTERMEDIATE HOLDING POSITION
29	13926296.24	3123281.58	INTERMEDIATE HOLDING POSITION
30	13926755.38	3123702.99	NON-MOVEMENT AREA BOUNDARY
31	13926759.31	3123824.97	NON-MOVEMENT AREA BOUNDARY
32	13926673.85	3123286.70	LEAD-IN LINE

PAVEMENT MARKING POINT LOCATION			
POINT #	NORTHING	EASTING	DESCRIPTION
33	13926678.56	3123433.16	LEAD-IN LINE
34	13926680.47	3123492.62	LEAD-IN LINE
35	13926685.18	3123639.08	LEAD-IN LINE
36	13926542.76	3123643.66	LEAD-IN LINE
37	13926538.05	3123497.20	LEAD-IN LINE
38	13926536.03	3123434.48	LEAD-IN LINE
39	13926531.32	3123288.03	LEAD-IN LINE
40	13926336.79	3123634.17	LEAD-IN LINE
41	13926454.06	3123546.31	LEAD-IN LINE
42	13926463.86	3123468.19	LEAD-IN LINE
43	13926317.40	3123472.90	LEAD-IN LINE
44	13926449.06	3123390.88	LEAD-IN LINE
45	13926326.39	3123310.74	LEAD-IN LINE
46	13926731.55	3123289.32	ASE
47	13926733.94	3123363.57	ASE
48	13926690.44	3123394.33	ASE
49	13926691.87	3123438.80	ASE
50	13926665.64	3123439.64	ASE
51	13926664.21	3123395.17	ASE
52	13926613.81	3123364.20	ASE
53	13926611.42	3123282.15	ASE
54	13926742.96	3123643.78	ASE
55	13926740.21	3123558.51	ASE
56	13926694.82	3123530.61	ASE
57	13926693.39	3123486.14	ASE
58	13926667.16	3123486.99	ASE
59	13926668.59	3123531.45	ASE
60	13926620.29	3123565.61	ASE
61	13926622.93	3123647.65	ASE
62	13926593.57	3123279.46	ASE
63	13926596.21	3123361.50	ASE

PAVEMENT MARKING POINT LOCATION			
POINT #	NORTHING	EASTING	DESCRIPTION
64	13926547.91	3123395.65	ASE
65	13926549.34	3123440.12	ASE
66	13926523.11	3123440.96	ASE
67	13926521.68	3123396.50	ASE
68	13926471.28	3123365.52	ASE
69	13926468.64	3123283.48	ASE
70	13926605.43	3123648.21	ASE
71	13926602.80	3123566.17	ASE
72	13926552.40	3123535.19	ASE
73	13926550.97	3123490.72	ASE
74	13926524.74	3123491.57	ASE
75	13926526.17	3123536.03	ASE
76	13926477.86	3123570.18	ASE
77	13926480.50	3123652.22	ASE
78	13926404.39	3123661.62	ASE
79	13926434.70	3123638.90	ASE
80	13926431.17	3123579.85	ASE
81	13926466.78	3123553.17	ASE
82	13926451.04	3123532.17	ASE
83	13926415.43	3123558.85	ASE
84	13926359.75	3123538.87	ASE
85	13926307.28	3123578.18	ASE
86	13926312.85	3123535.58	ASE
87	13926394.89	3123532.94	ASE
88	13926425.87	3123482.54	ASE
89	13926470.34	3123481.11	ASE
90	13926469.49	3123454.88	ASE
91	13926425.03	3123456.31	ASE
92	13926390.87	3123408.00	ASE
93	13926308.83	3123410.64	ASE
94	13926300.54	3123368.51	ASE

PAVEMENT MARKING POINT LOCATION			
POINT #	NORTHING	EASTING	DESCRIPTION
95	13926355.43	3123404.37	ASE
96	13926409.71	3123380.85	ASE
97	13926446.95	3123405.18	ASE
98	13926461.31	3123383.21	ASE
99	13926424.06	3123358.88	ASE
100	13926423.79	3123299.72	ASE
101	13926391.35	3123278.52	ASE
102	13926738.96	3123192.35	NON-MOVEMENT AREA BOUNDARY
103	13926735.06	3123071.29	NON-MOVEMENT AREA BOUNDARY
104	13926746.84	3123702.39	CONTINUOUS TAXIWAY EDGE
105	13926610.58	3123535.91	DASHED LEAD-IN LINE
106	13926602.87	3123296.32	DASHED LEAD-IN LINE
107	13926715.90	3123299.60	DASHED ASE
108	13926719.22	3123402.92	DASHED ASE
109	13926625.34	3123474.34	DASHED ASE
110	13926627.50	3123541.43	DASHED ASE
111	13926594.05	3123542.50	DASHED ASE
112	13926591.89	3123475.42	DASHED ASE
113	13926493.61	3123410.18	DASHED ASE
114	13926489.76	3123290.28	DASHED ASE
115	13926077.14	3123287.63	INTERMEDIATE HOLDING POSITION
116	13925952.29	3123022.01	NON-MOVEMENT AREA BOUNDARY
117	13925745.75	3123028.65	NON-MOVEMENT AREA BOUNDARY
118	13925283.48	3123141.86	NON-MOVEMENT AREA BOUNDARY
119	13925285.97	3123215.35	NON-MOVEMENT AREA BOUNDARY
120	13926782.31	3124540.10	NON-MOVEMENT AREA BOUNDARY
121	13926794.76	3124927.06	NON-MOVEMENT AREA BOUNDARY
122	13926292.41	3123011.57	TAXIWAY CENTERLINE
123	13926240.94	3123215.35	TAXIWAY CENTERLINE
124	13925942.99	3123031.71	CENTER OF RADIUS



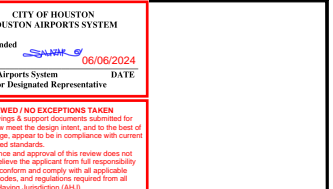
HOUSTON AIRPORT SYSTEM
GEORGE BUSH INTERCONTINENTAL AIRPORT HOUSTON, TEXAS



13501 Katy Freeway
Suite 3425
Houston, Texas 77079
(832) 494-3800
TBPE Firm Registration No. F-10161

REVISIONS

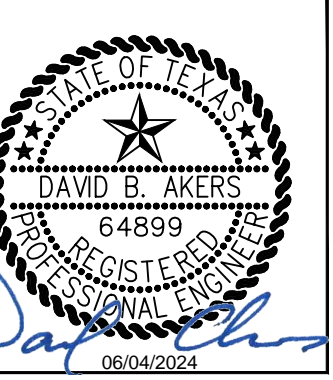
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TERMINAL A NORTH RON PARKING
AT GEORGE BUSH INTERCONTINENTAL AIRPORT
PAVEMENT MARKING POINT TABLES
T.I.P. No. 23-311-IAH B.S.G. No. 2023-356-IAH

ISSUED FOR PERMIT

PROJECT MGR: DA
DESIGNER: ZJ
DRAWN BY: ZJ
CHECKED BY: BS
SCALE: 1" = 40'
DATE: 06/03/2024



DEPARTMENT OF AVIATION
APPROVED BY: DATE:
HOUSTON AIRPORT SYSTEMS
AUTHORIZED REPRESENTATIVE

PROJECT NO.
PN 973
C.I.P. NO.
A-000713
H.A.S. NO.
SHEET NO.

CM.05



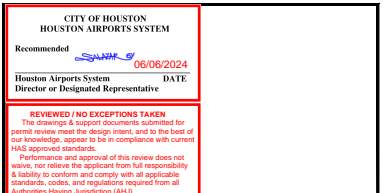
HOUSTON AIRPORT SYSTEM

GEORGE BUSH INTERCONTINENTAL AIRPORT HOUSTON, TEXAS



13501 Katy Freeway Suite 3425 Houston, Texas 77079 (832) 494-3800 TBPE Firm Registration No. F-10161

REVISIONS			
NO.	DESCRIPTION	DATE	BY

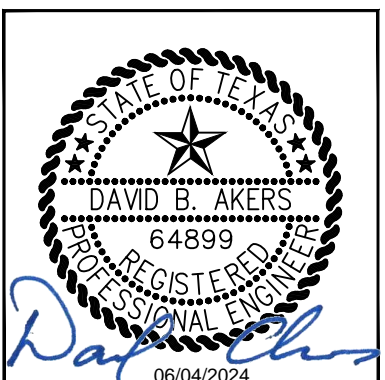


TERMINAL A NORTH RON PARKING AT GEORGE BUSH INTERCONTINENTAL AIRPORT

PAVEMENT MARKING DETAILS

T.I.P. No. 23-311-IAH B.S.G. No. 2023-356-IAH

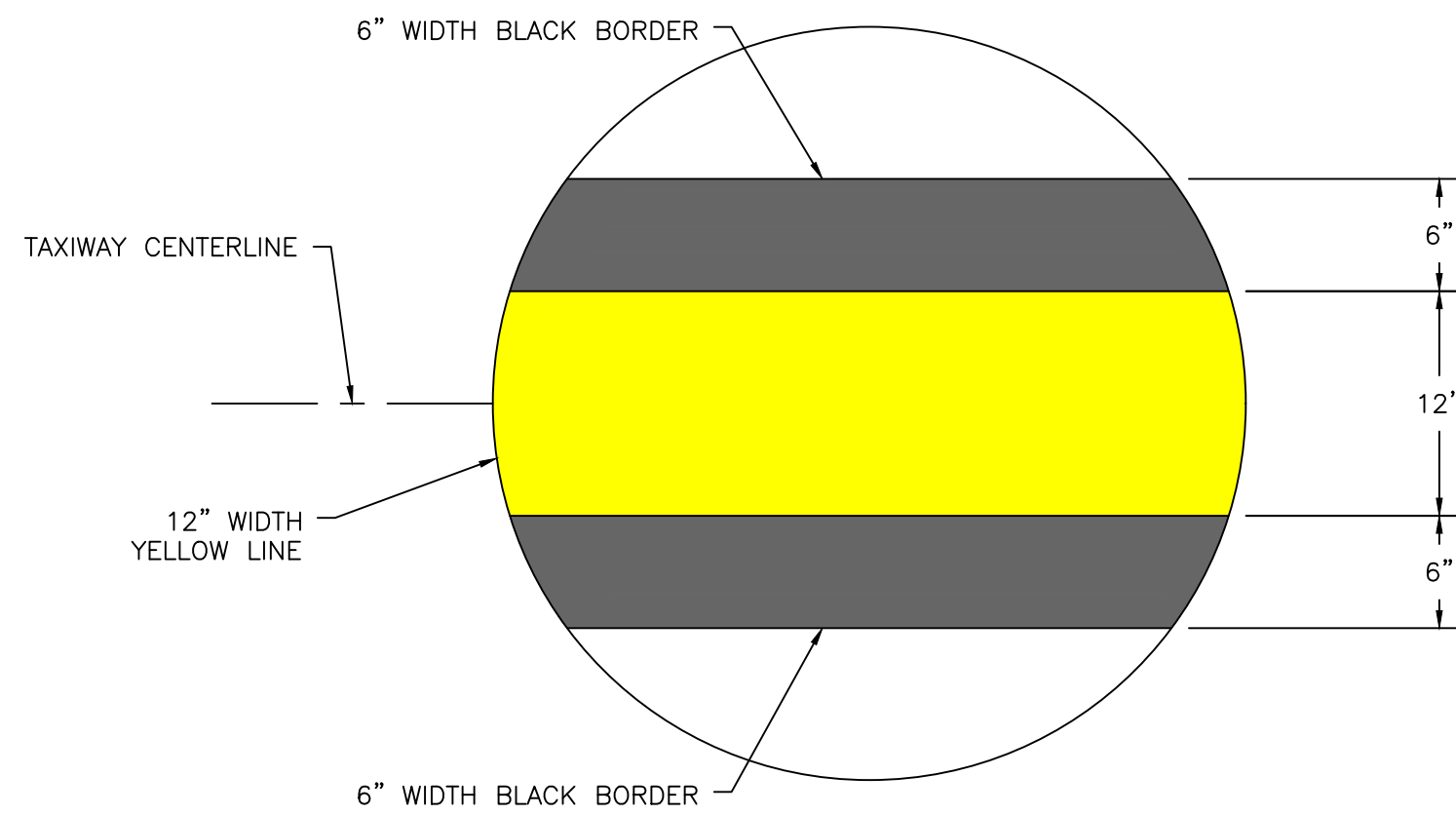
ISSUED FOR PERMIT	
PROJECT MGR:	DA
DESIGNER:	JC
DRAWN BY:	ZJ
CHECKED BY:	BS
SCALE:	NTS
DATE:	06/03/2024



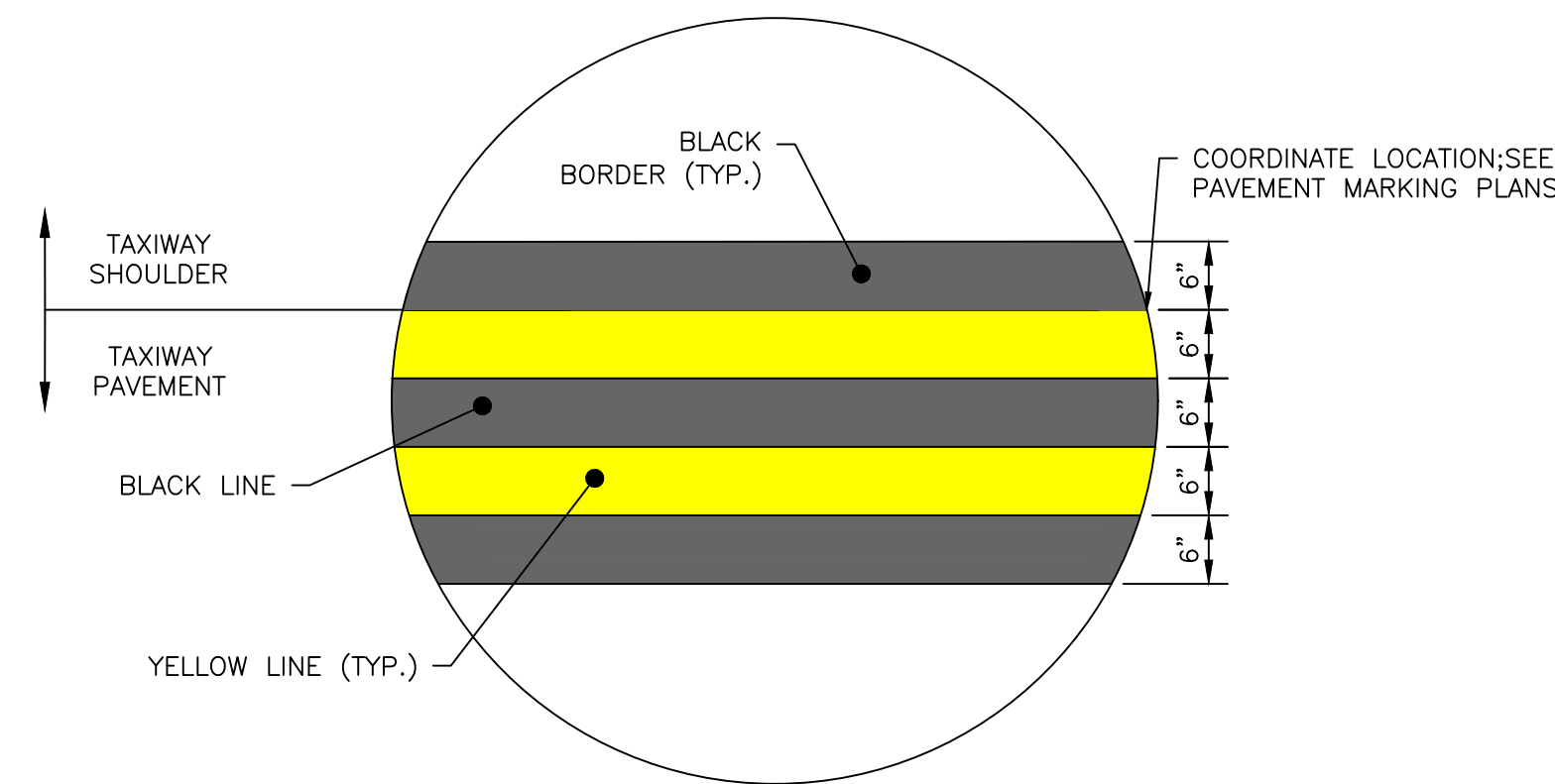
DEPARTMENT OF AVIATION	
APPROVED BY:	DATE:
HOUSTON AIRPORT SYSTEMS AUTHORIZED REPRESENTATIVE	

PROJECT NO.	PN 973
C.I.P. NO.	A-000713
H.A.S. NO.	
SHEET NO.	

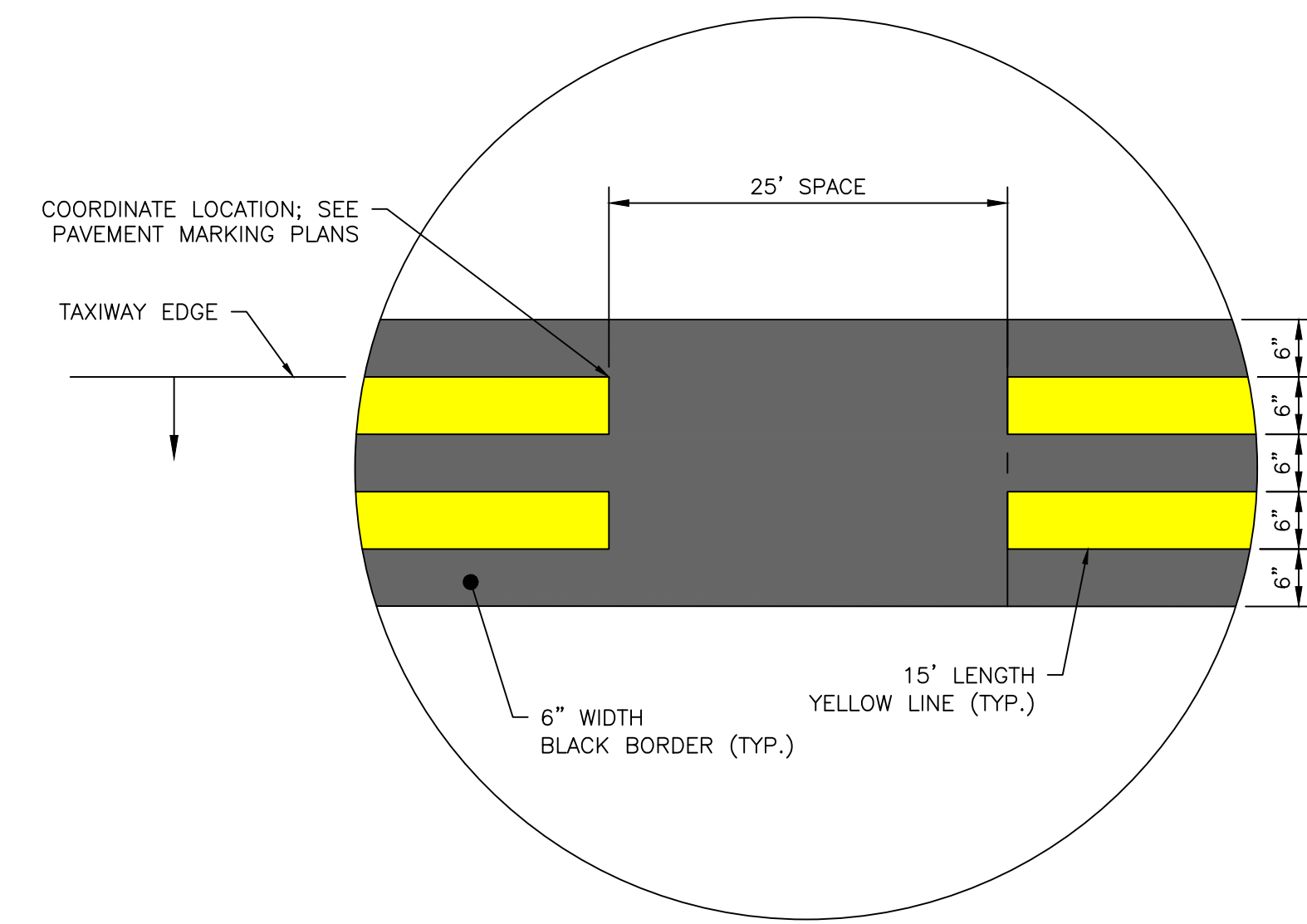
CM.06



1 TAXIWAY CENTERLINE MARKING
SCALE: CM.06



2 CONTINUOUS TAXIWAY EDGE MARKING
SCALE: CM.06



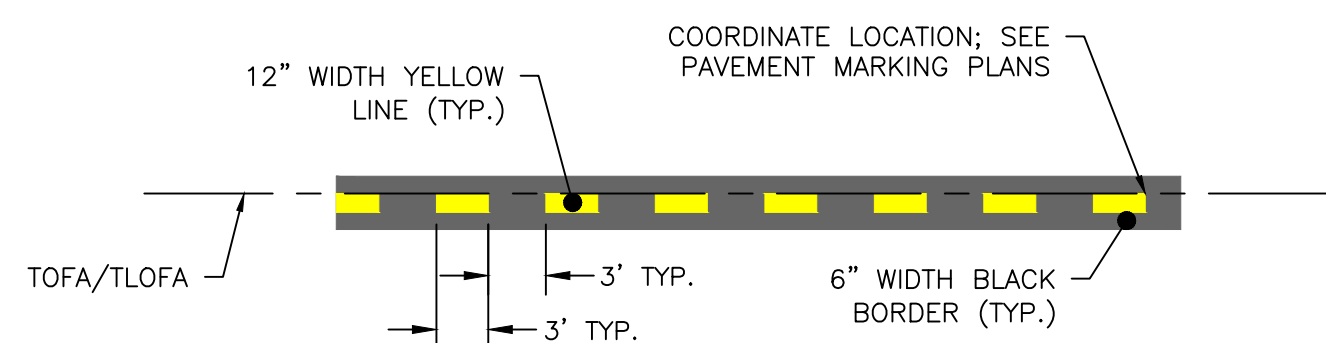
3 DASHED TAXIWAY EDGE MARKING
SCALE: CM.06

NOTES:

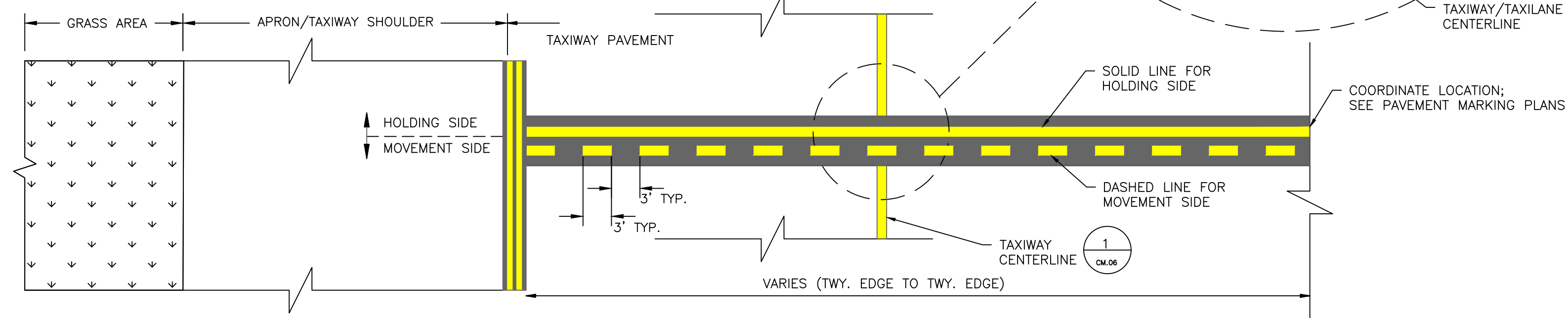
- TAXIWAY CENTERLINE MARKINGS TO BE OBLITERATED SHALL BE SURVEYED BEFORE THEY ARE OBLITERATED.
- CONTRACTOR IS TO REPAINT THE TAXIWAY CENTERLINE STRIPES IN THEIR ORIGINAL LOCATIONS ONCE CONSTRUCTION IS COMPLETE

GENERAL NOTE:

- ALL MARKINGS TO BE IN COMPLIANCE WITH FAA AC 150/5340-1M.



4 INTERMEDIATE HOLDING POSITION MARKING
SCALE: NTS



5 NON-MOVEMENT AREA BOUNDARY MARKING
SCALE: CM.06

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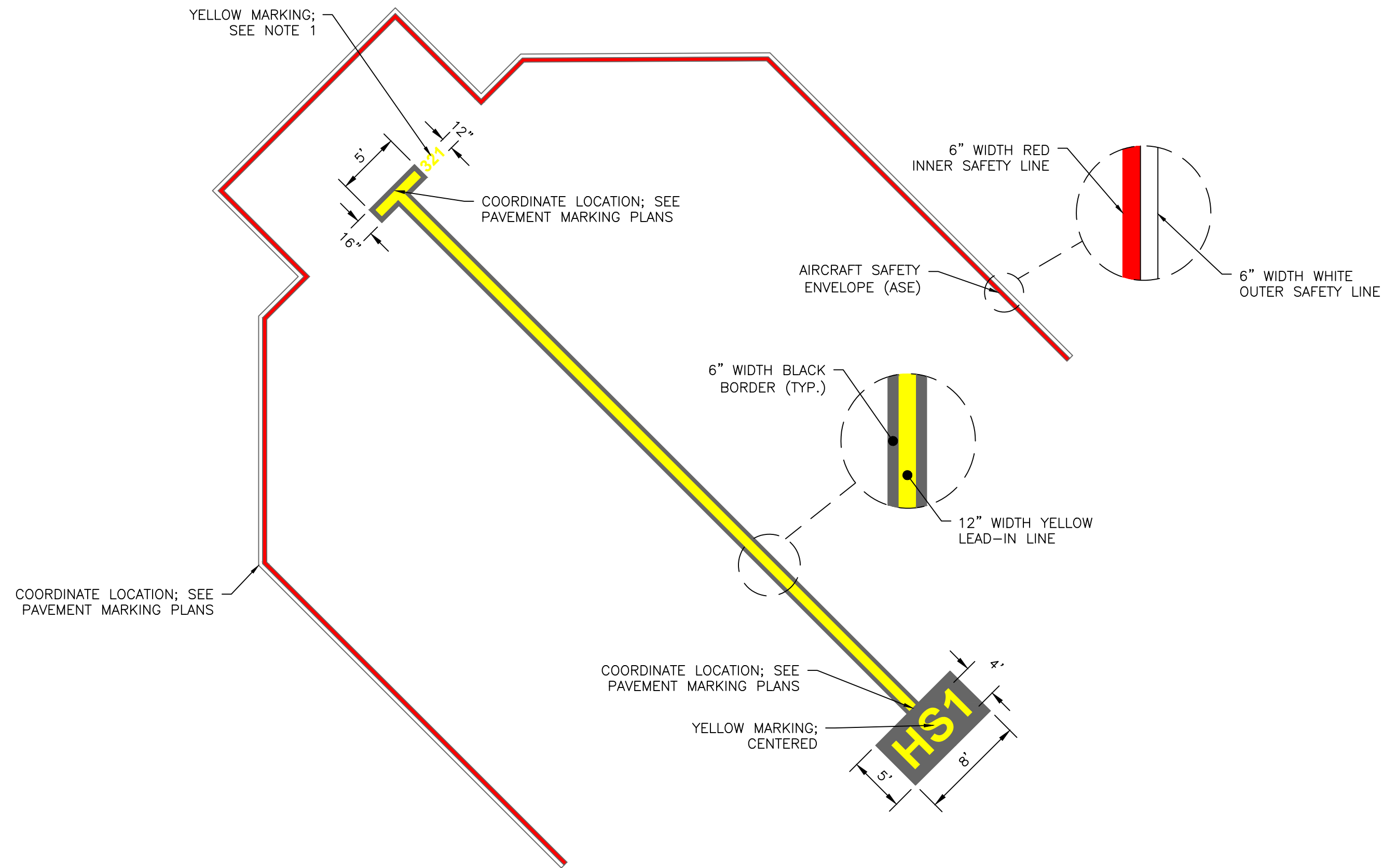
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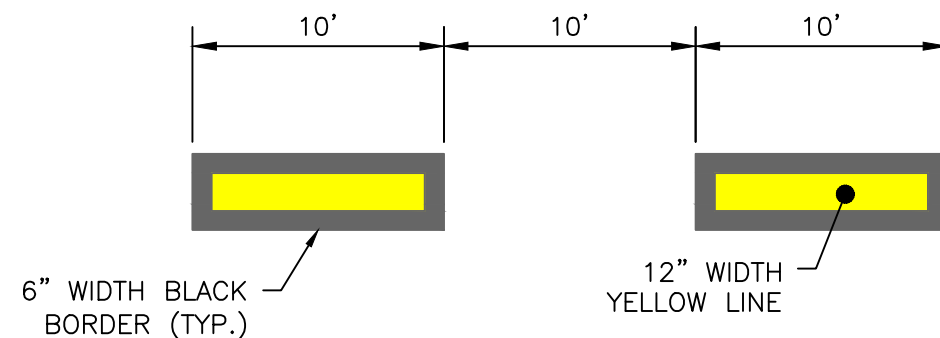
- CONTRACTOR TO COORDINATE WITH HAS OAR FOR MARKING DESIGNATIONS. CONTRACTOR TO VERIFY WITH HAS OAR WHETHER ADDITIONAL STOP BAR LOCATIONS ARE REQUIRED.

GENERAL NOTE:

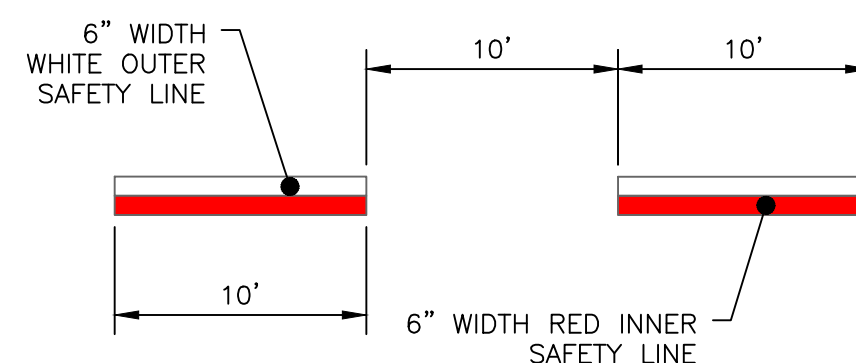
- ALL MARKINGS TO BE IN COMPLIANCE WITH FAA AC 150/5340-1M.



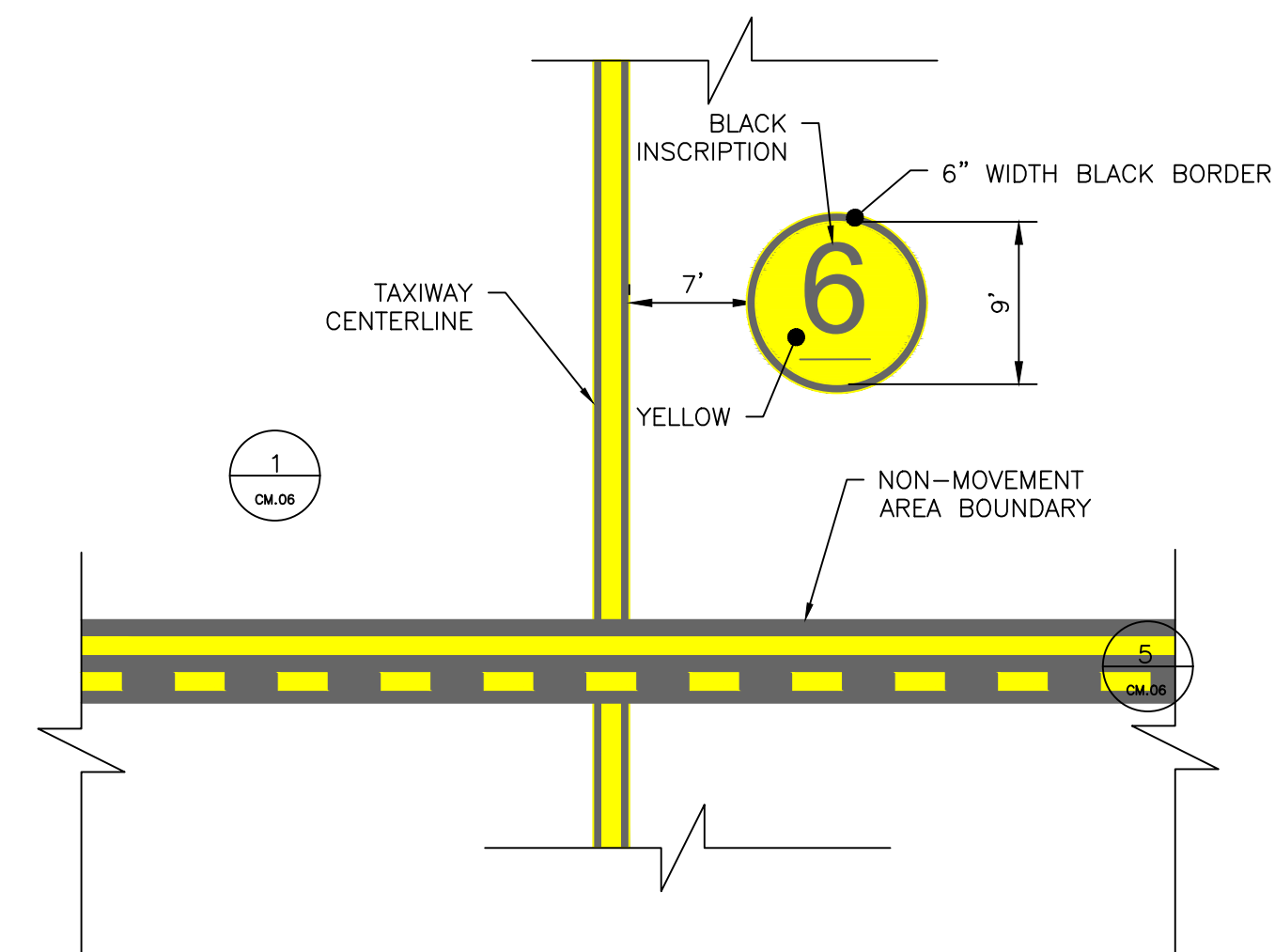
1 AIRCRAFT PARKING SURFACE MARKING
SCALE:NTS
CM.07



2 DASHED LEAD-IN LINE
SCALE:NTS
CM.07



3 DASHED AIRCRAFT SAFETY ENVELOPE (ASE)
SCALE:NTS
CM.07



NOTE:

- THE DIAMETER OF THE CIRCULAR MARKING IS TO BE A MINIMUM OF 9 FT, EXCLUDING THE BLACK BORDER.
- THE DIAMETER OF THE CIRCULAR MARKING IS TO BE INCREASED SO THAT THE WIDTH AND HEIGHT OF THE BLACK INSCRIPTION IS A MINIMUM OF 1 FT FROM THE EDGE OF THE YELLOW CIRCUMFERENCE.
- CONTRACTOR TO VERIFY THE FONT OF THE BLACK INSCRIPTION WITH HAS OAR BEFORE PLACEMENT OF MARKING.

4 CIRCULAR APRON MARKING
SCALE:NTS
CM.07

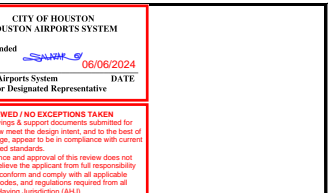


HOUSTON AIRPORT SYSTEM
GEORGE BUSH INTERCONTINENTAL AIRPORT
HOUSTON, TEXAS



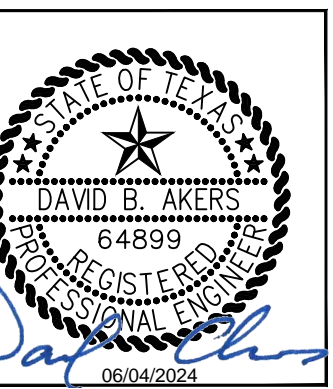
13501 Katy Freeway
Suite 3425
Houston, Texas 77079
(832) 494-3800
TBPE Firm Registration No. F-10161

REVISIONS		
NO.	DESCRIPTION	DATE



TERMINAL A NORTH IRON PARKING
AT GEORGE BUSH INTERCONTINENTAL AIRPORT
PAVEMENT MARKING DETAILS
T.I.P. No. 23-311-IAH B.S.G. No. 2023-356-IAH

ISSUED FOR PERMIT	
PROJECT MGR:	DA
DESIGNER:	ZJ
DRAWN BY:	ZJ
CHECKED BY:	BS
SCALE:	NTS
DATE:	06/03/2024



DEPARTMENT OF AVIATION	
APPROVED BY:	DATE:

PROJECT NO.	PN 973
C.I.P. NO.	A-000713
H.A.S. NO.	
SHEET NO.	

CM.07



HOUSTON AIRPORT SYSTEM
 GEORGE BUSH INTERCONTINENTAL
 AIRPORT HOUSTON, TEXAS



13501 Katy Freeway
 Suite 3425
 Houston, Texas 77079
 (832) 494-3800
 TBPE Firm Registration No.
 F-10161

REVISIONS
 NO. DESCRIPTION DATE BY



TERMINAL A NORTH RON PARKING
 AT GEORGE BUSH INTERCONTINENTAL AIRPORT

STORM DRAINAGE PLAN

T.I.P. No. 23-311-IAH B.S.G. No. 2023-356-IAH

ISSUED FOR PERMIT

PROJECT MGR: DA
 DESIGNER: ZJ
 DRAWN BY: ZJ
 CHECKED BY: BS
 SCALE: 1" = 40'
 DATE: 06/03/2024

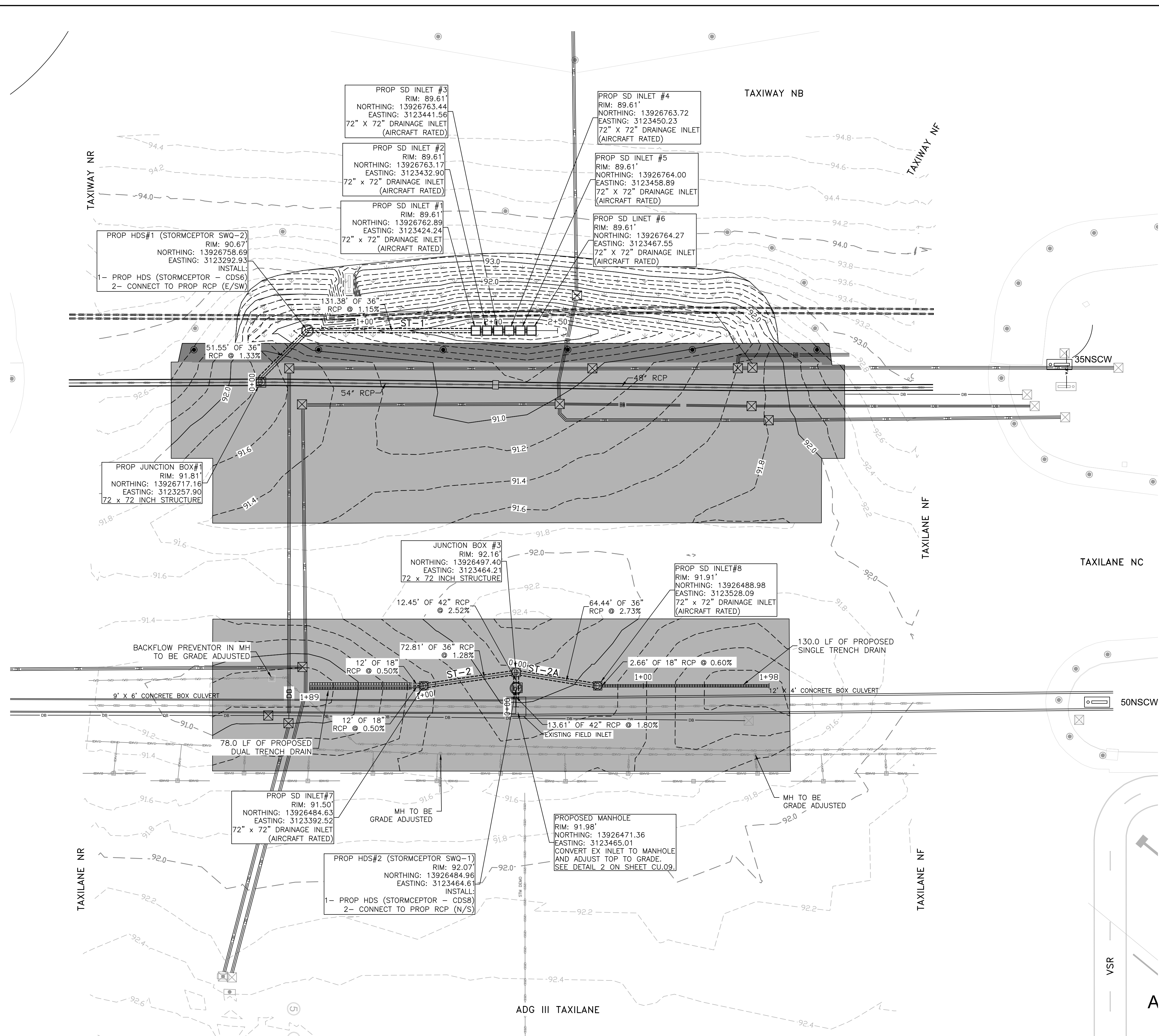


DEPARTMENT OF AVIATION
 APPROVED BY: DATE:
 HOUSTON AIRPORT SYSTEMS
 AUTHORIZED REPRESENTATIVE

PROJECT NO.
 PN 973
 C.I.P. NO.
 A-000713
 H.A.S. NO.
 SHEET NO.

CU.01

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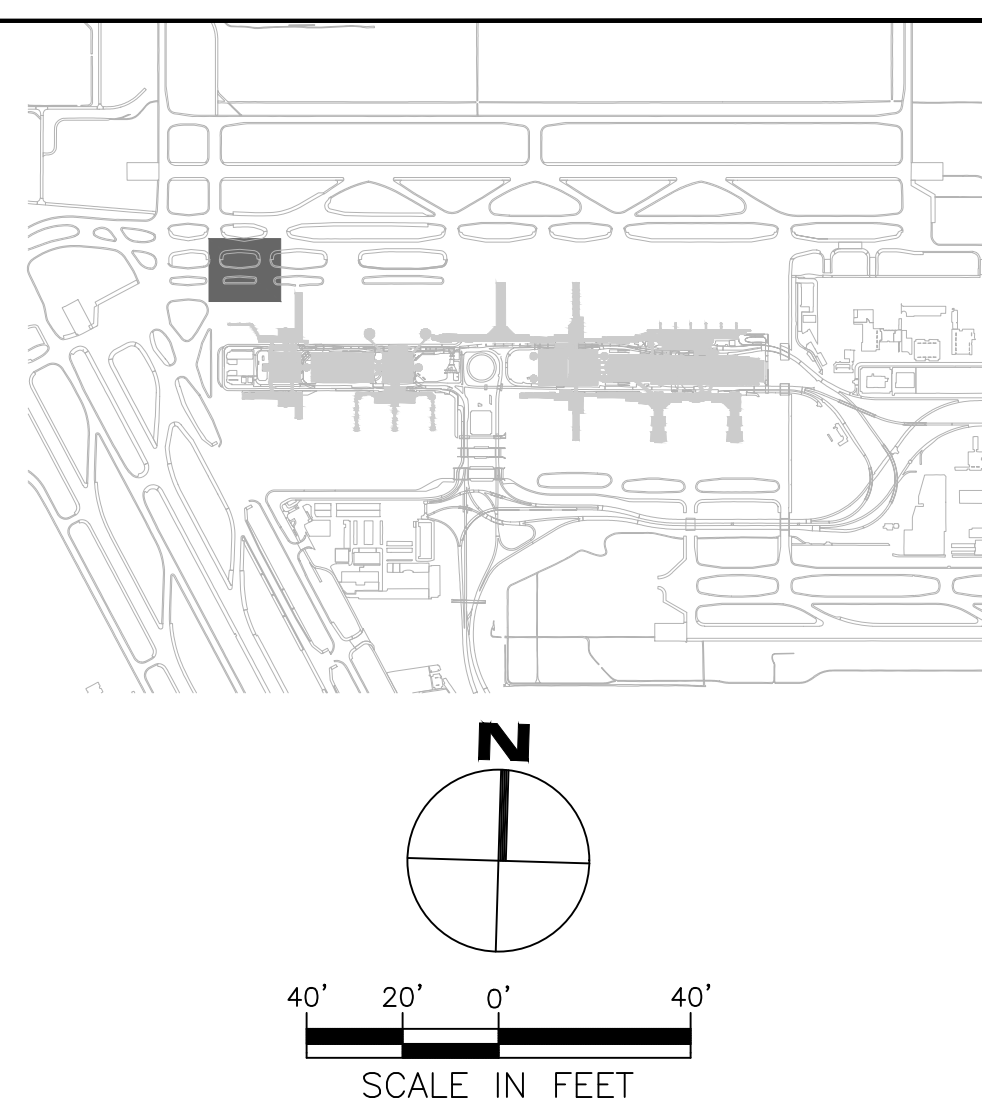


LEGEND

- PROPOSED SOD
- PROPOSED CONCRETE
- PROPOSED ASPHALT SHOULDER
- EXISTING INLET
- EXISTING MANHOLE
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- PROPOSED INLET
- PROPOSED TRENCH DRAIN
- PROPOSED STORMCEPTOR

NOTES:

1. CONTRACTOR TO REMOVE EXISTING INLET GRATE AND TOP OF BOX. JUNCTION BOX TO REMAIN IN PLACE FOR PROPOSED STORM DRAIN CONNECTIONS.
2. SEE SHEET CU.03 THROUGH CU.06 FOR STORMCEPTOR AND TRENCH DRAIN DETAILS.





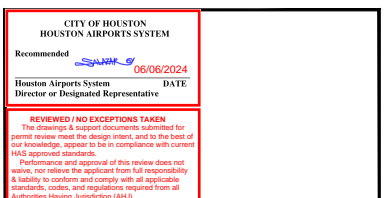
HOUSTON AIRPORT SYSTEM

GEORGE BUSH INTERCONTINENTAL AIRPORT HOUSTON, TEXAS



13501 Katy Freeway Suite 3425 Houston, Texas 77079 (832) 494-3800 (832) 494-3800 TBPE Firm Registration No. F-10161

REVISIONS		
NO.	DESCRIPTION	DATE

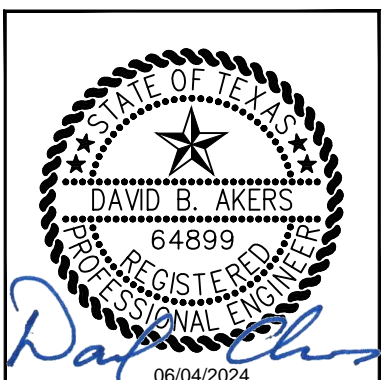


TERMINAL A NORTH RON PARKING AT GEORGE BUSH INTERCONTINENTAL AIRPORT

STORM DRAIN PROFILES

T.I.P. No. 23-311-IAH B.S.G. No. 2023-356-IAH

ISSUED FOR PERMIT	
PROJECT MGR:	DA
DESIGNER:	ZJ
DRAWN BY:	ZJ
CHECKED BY:	BS
SCALE:	1" = 40'
DATE:	06/03/2024

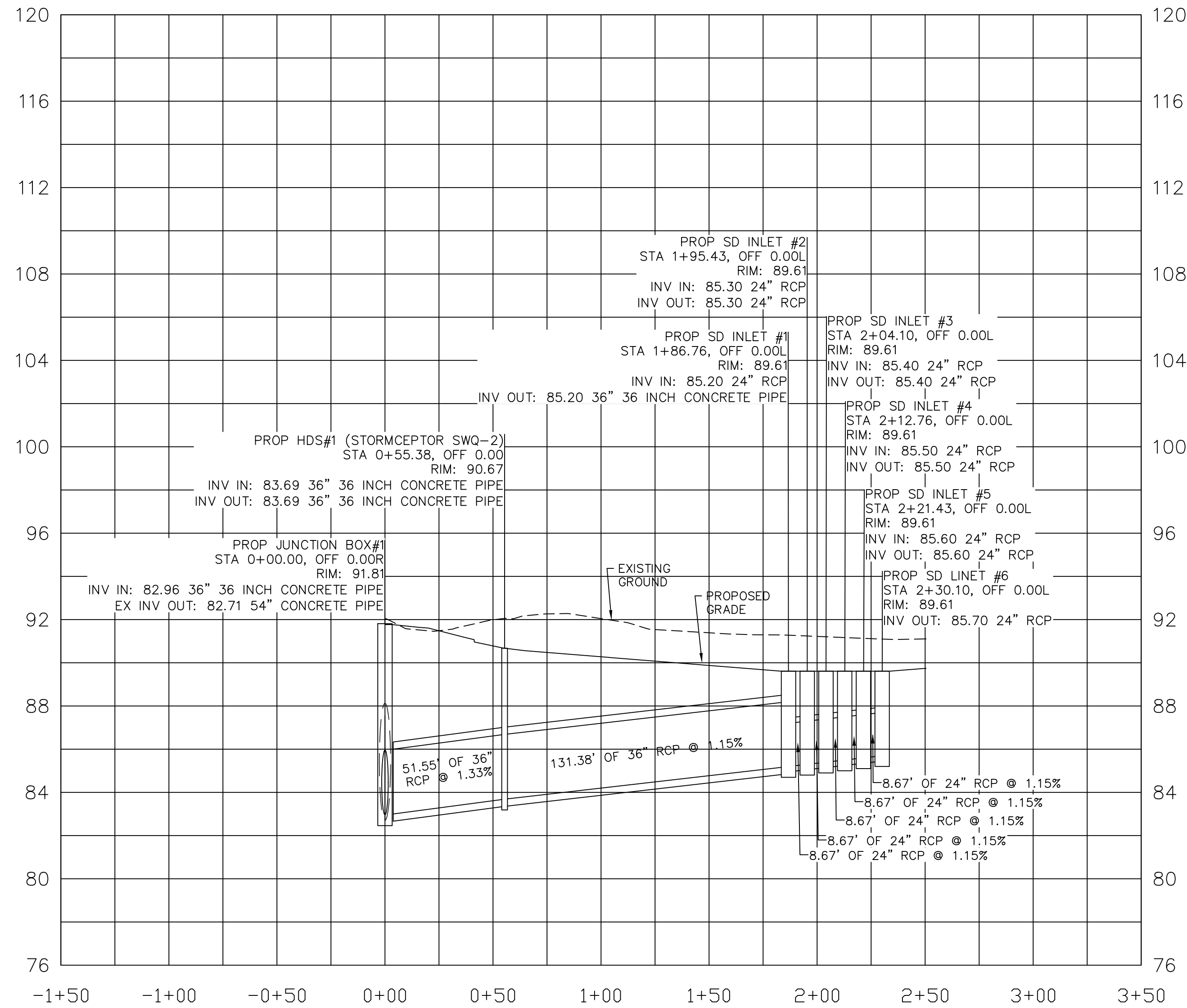


DEPARTMENT OF AVIATION	
APPROVED BY:	DATE:
HOUSTON AIRPORT SYSTEMS AUTHORIZED REPRESENTATIVE	

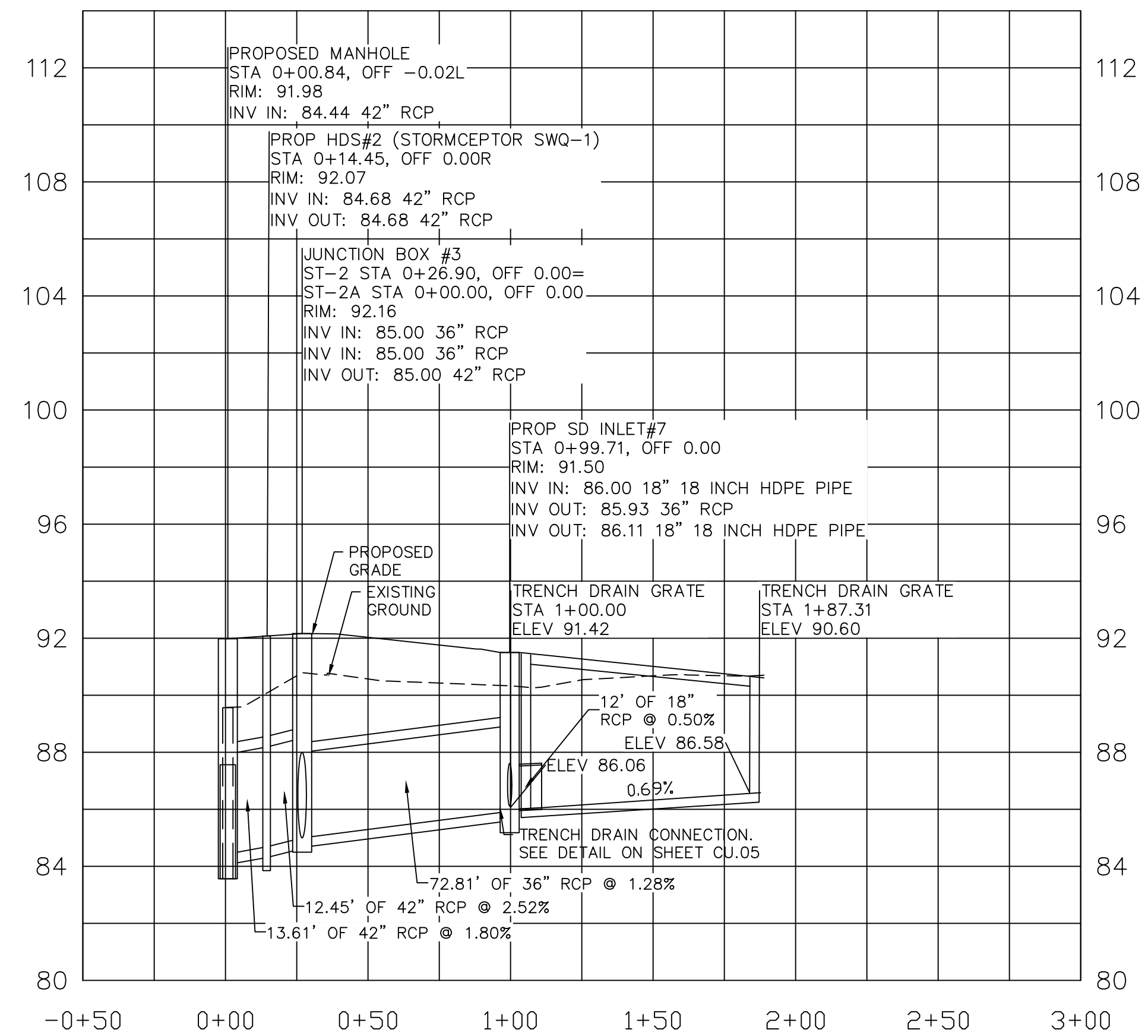
PROJECT NO.	PN 973
C.I.P. NO.	A-000713
H.A.S. NO.	
SHEET NO.	

CU.02

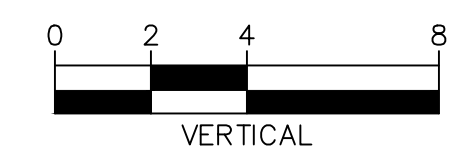
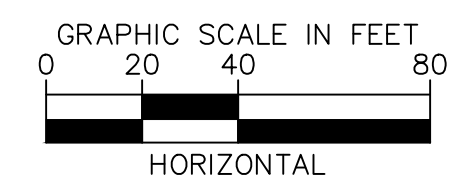
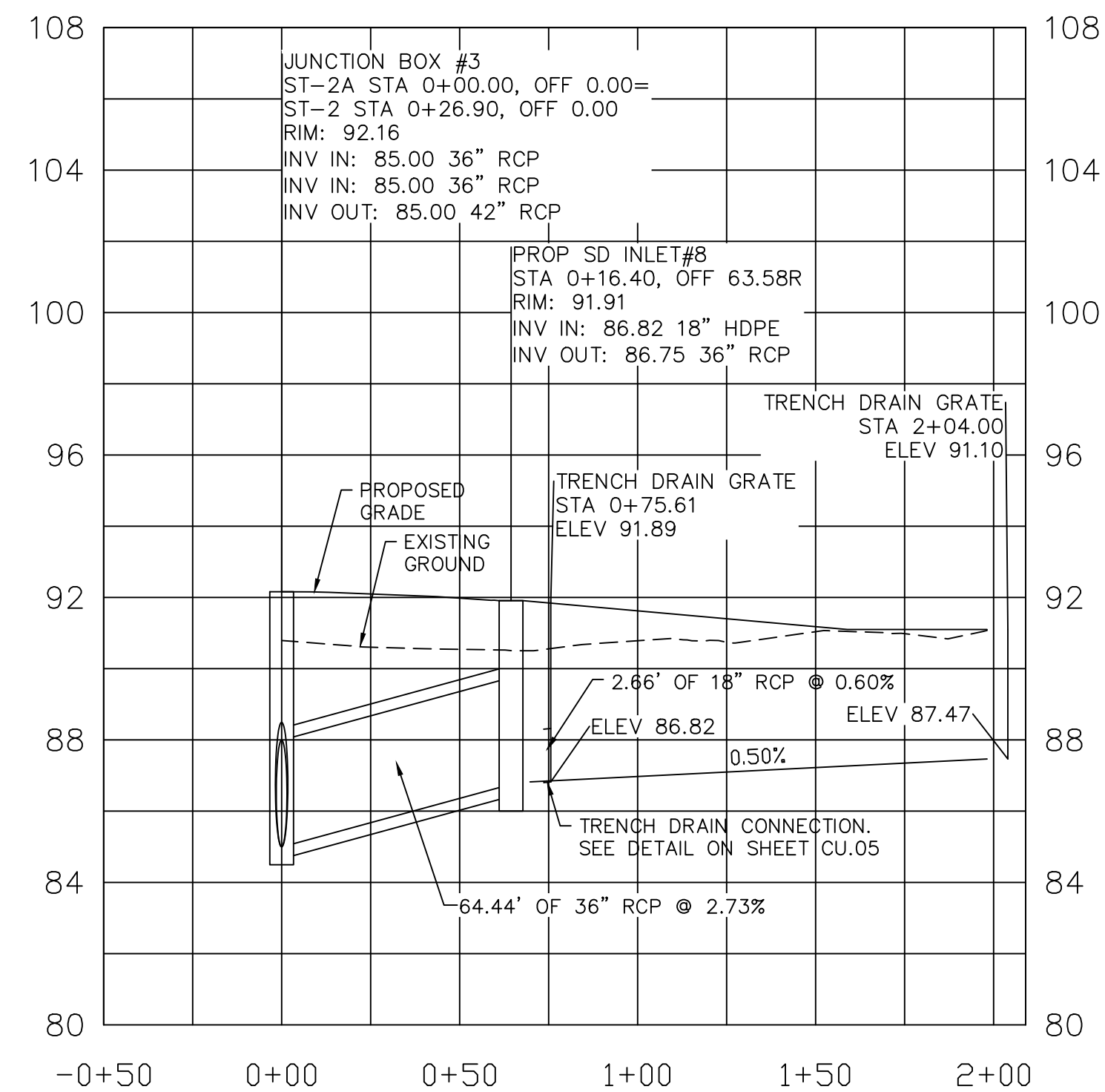
ST-1 PROFILE



ST-2 PROFILE



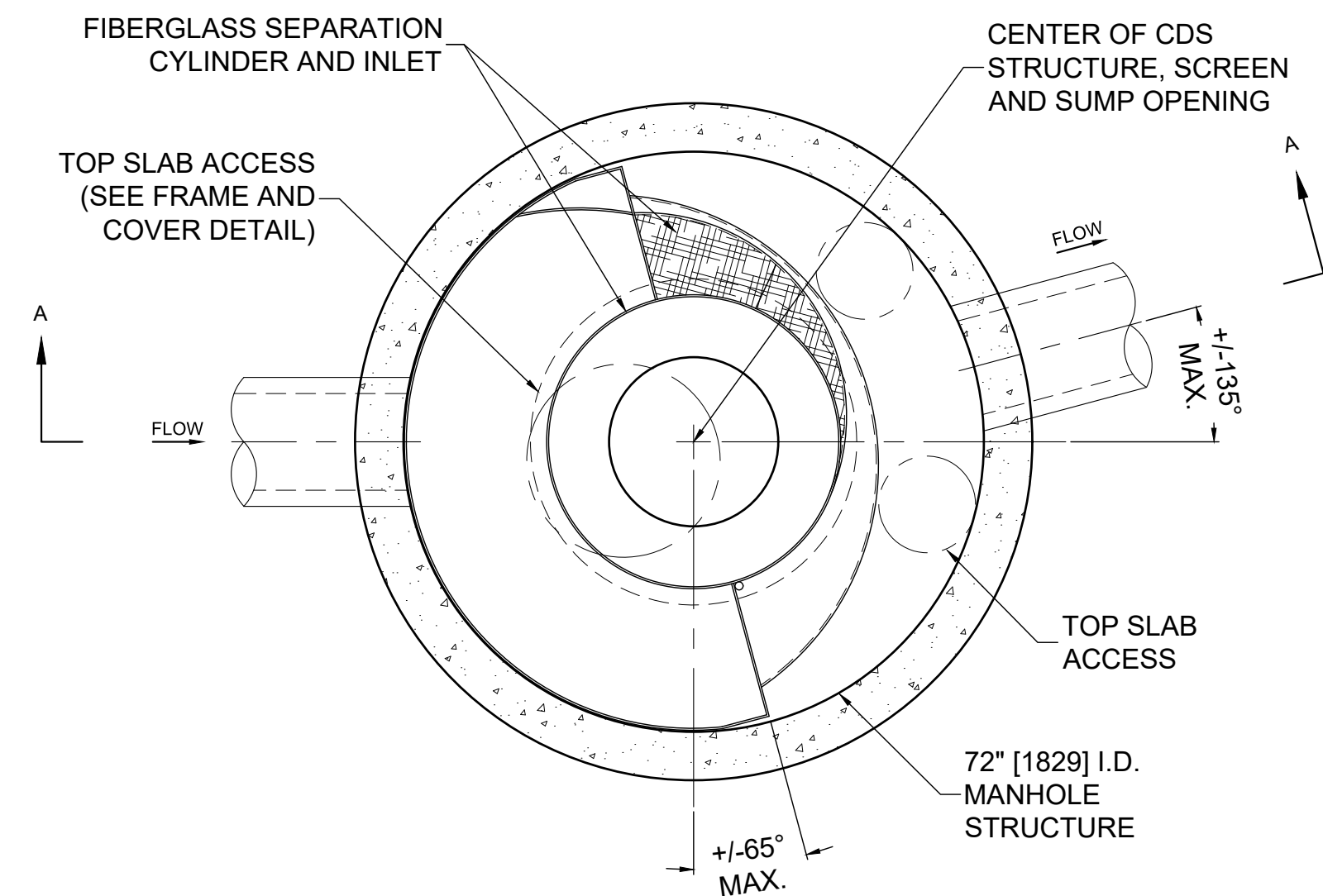
ST-2A PROFILE



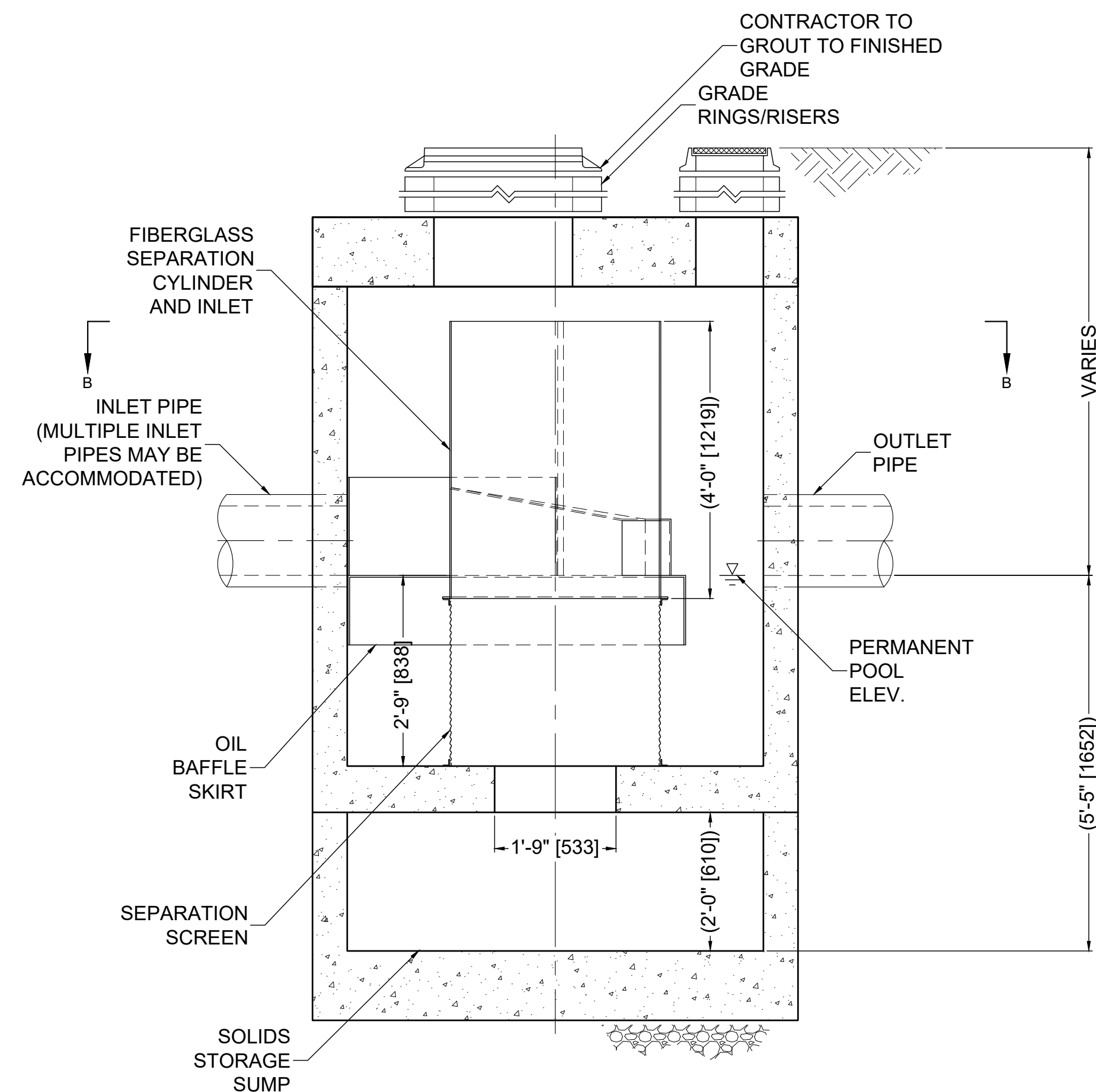
CDS3020-6-C DESIGN NOTES

CDS3020-6-C RATED TREATMENT CAPACITY IS 2.0 CFS [56.6 L/s], OR PER LOCAL REGULATIONS. IF THE SITE CONDITIONS EXCEED MAXIMUM HYDRAULIC CAPACITY, AN UPSTREAM BYPASS STRUCTURE IS REQUIRED.

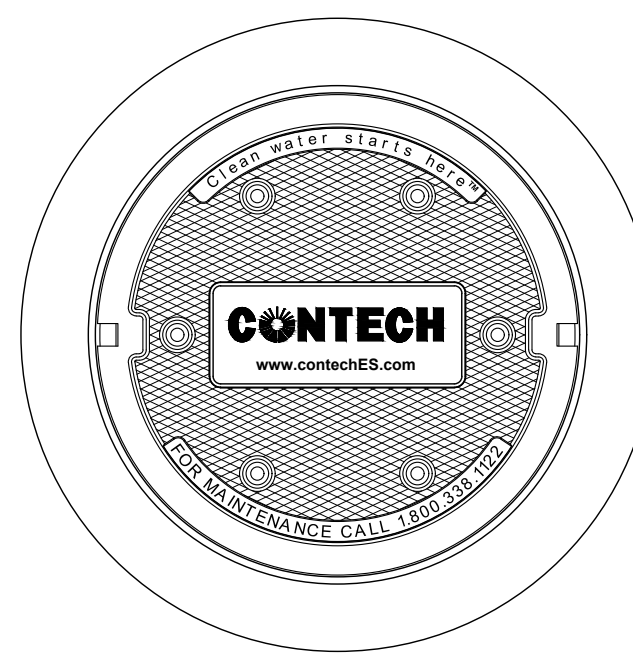
CDS3020-6-C STANDARD CONFIGURATION SHOWN.



PLAN VIEW B-B
N.T.S.



ELEVATION A-A
N.T.S.



FRAME AND COVER
(DIAMETER VARIES)
N.T.S.

GENERAL NOTES

- CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
- FOR SITE SPECIFIC DRAWINGS WITH DETAILED STRUCTURE DIMENSIONS AND WEIGHT, PLEASE CONTACT YOUR CONTECH ENGINEERED SOLUTIONS LLC REPRESENTATIVE. www.ContechES.com
- CDS WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING. CONTRACTOR TO CONFIRM STRUCTURE MEETS REQUIREMENTS OF PROJECT.
- STRUCTURE SHALL MEET AASHTO HS20 LOAD RATING, ASSUMING EARTH COVER OF 0' - 2', AND GROUNDWATER ELEVATION AT, OR BELOW, THE OUTLET PIPE INVERT ELEVATION. ENGINEER OF RECORD TO CONFIRM ACTUAL GROUNDWATER ELEVATION. CASTINGS SHALL MEET AASHTO M306 AND BE CAST WITH THE CONTECH LOGO.
- IF REQUIRED, PVC HYDRAULIC SHEAR PLATE IS PLACED ON SHELF AT BOTTOM OF SCREEN CYLINDER. REMOVE AND REPLACE AS NECESSARY DURING MAINTENANCE CLEANING
- CDS STRUCTURE SHALL BE PRECAST CONCRETE CONFORMING TO ASTM C-478 AND AASHTO LOAD FACTOR DESIGN METHOD.

INSTALLATION NOTES

- ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD WITH FINAL DESIGN.
- CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE CDS MANHOLE STRUCTURE (LIFTING CLUTCHES PROVIDED).
- CONTRACTOR TO ADD JOINT SEALANT BETWEEN ALL STRUCTURE SECTIONS, AND ASSEMBLE STRUCTURE.
- CONTRACTOR TO PROVIDE, INSTALL, AND GROUT PIPES. MATCH PIPE INVERTS WITH ELEVATIONS SHOWN.
- CONTRACTOR TO TAKE APPROPRIATE MEASURES TO ASSURE UNIT IS WATER TIGHT, HOLDING WATER TO FLOWLINE INVERT MINIMUM. IT IS SUGGESTED THAT ALL JOINTS BELOW PIPE INVERTS ARE GROUTED.

SPECIAL NOTES:

- CDS STRUCTURES SHALL BE DESIGNED AND CONSTRUCTED TO WITHSTAND AIRCRAFT LOADING AS SHOWN ON THE STORM DRAIN DETAILS, SHEET CU.06.

SITE SPECIFIC DATA REQUIREMENTS

STRUCTURE ID	SWQ-2
WATER QUALITY FLOW RATE (CFS OR L/s)	1.72
PEAK FLOW RATE (CFS OR L/s)	61
RETURN PERIOD OF PEAK FLOW (YRS)	100YR
SCREEN APERTURE (2400 OR 4700)	*

PIPE DATA:	I.E.	MATERIAL	DIAMETER
INLET PIPE 1	83.69	CLASS V RCP	36"
INLET PIPE 2			
OUTLET PIPE	83.69	CLASS V RCP	36"

RIM ELEVATION	89.86
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ANTI-FLOTATION BALLAST	WIDTH	HEIGHT
	*	*

NOTES/SPECIAL REQUIREMENTS:
SITE SPECIFIC DATA REQUIREMENTS TO BE VERIFIED BY CONTRACTOR IN ACCORDANCE WITH HDS SIZING SHEET INCLUDED WITH CONSTRUCTION DOCUMENTS.
*TO BE SPECIFIED BY CONTECH E.S.

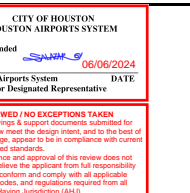


HOUSTON AIRPORT SYSTEM
GEORGE BUSH INTERCONTINENTAL AIRPORT
HOUSTON, TEXAS



13501 Katy Freeway
Suite 3425
Houston, Texas 77079
(832) 494-3800
TBPE Firm Registration No. F-10161

REVISIONS		
NO.	DESCRIPTION	DATE

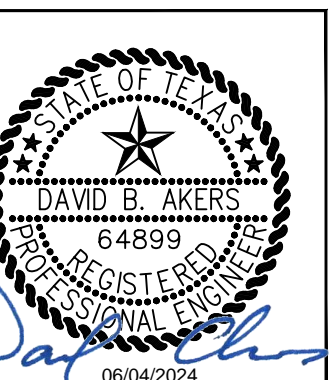


TERMINAL A NORTH RAMP PARKING
AT GEORGE BUSH INTERCONTINENTAL AIRPORT

STORM DRAIN DETAILS

T.I.P. No. 23-311-1AH B.S.G. No. 2023-356-1AH

ISSUED FOR PERMIT	
PROJECT MGR:	DA
DESIGNER:	BO
DRAWN BY:	ZJ
CHECKED BY:	BS
SCALE:	X
DATE:	06/03/2024



DEPARTMENT OF AVIATION	
APPROVED BY:	DATE:

PROJECT NO.	PN 973
C.I.P. NO.	A-000713
H.A.S. NO.	
SHEET NO.	

CU.03

CDS4040-8-C DESIGN NOTES

CDS4040-8-C RATED TREATMENT CAPACITY IS 6.0 CFS [169.9 L/s], OR PER LOCAL REGULATIONS. IF THE SITE CONDITIONS EXCEED MAXIMUM HYDRAULIC CAPACITY, AN UPSTREAM BYPASS STRUCTURE IS REQUIRED.

CDS4040-8-C STANDARD CONFIGURATION SHOWN.
FOR NJDEP PROJECTS, PLEASE CONTACT YOUR LOCAL CONTECH REPRESENTATIVE FOR APPROVED CONFIGURATIONS

GENERAL NOTES

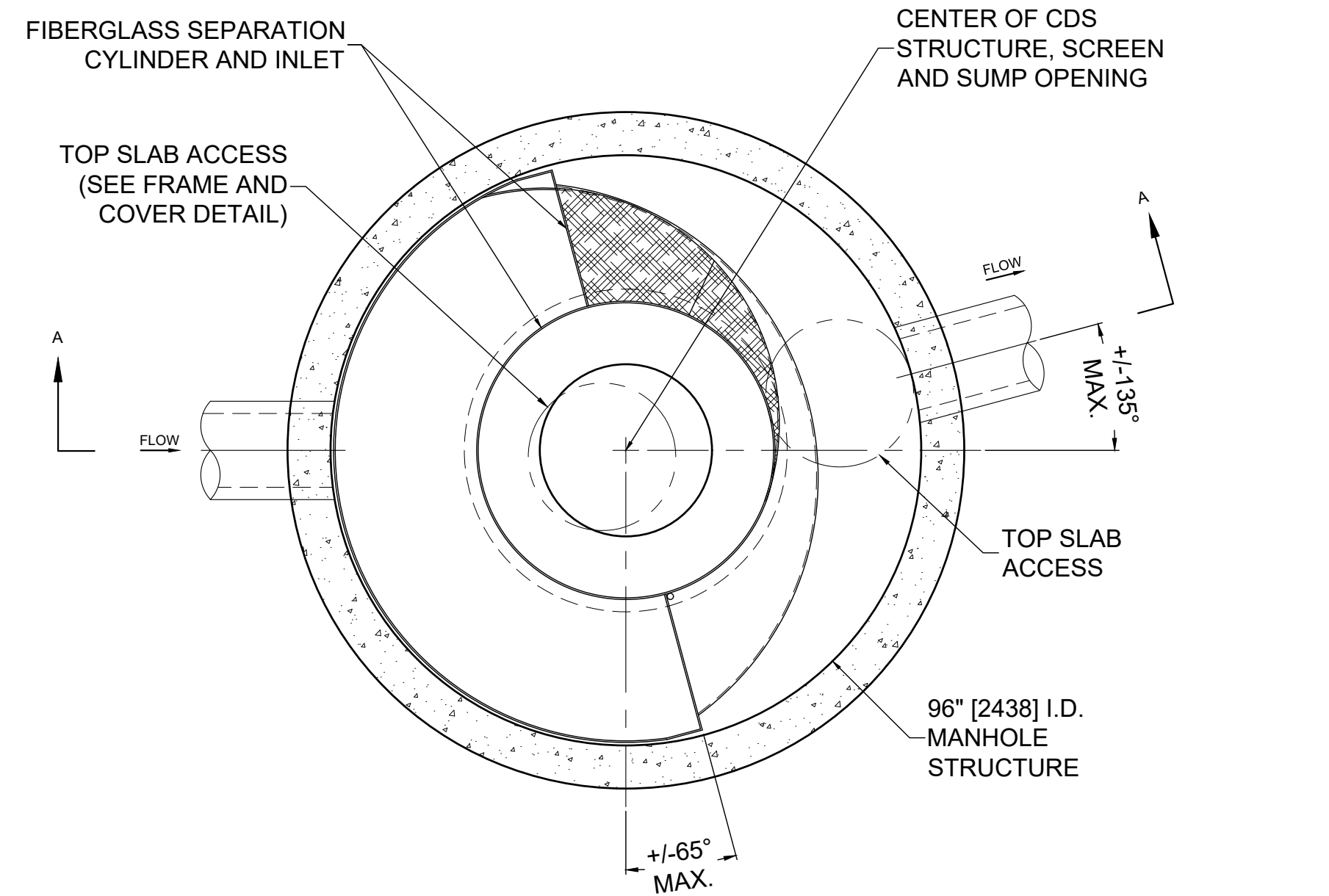
- CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
- FOR SITE SPECIFIC DRAWINGS WITH DETAILED STRUCTURE DIMENSIONS AND WEIGHT, PLEASE CONTACT YOUR CONTECH ENGINEERED SOLUTIONS LLC REPRESENTATIVE. www.ContechES.com
- CDS WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING. CONTRACTOR TO CONFIRM STRUCTURE MEETS REQUIREMENTS OF PROJECT.
- STRUCTURE SHALL MEET AASHTO HS20 LOAD RATING, ASSUMING EARTH COVER OF 0' - 2'. AND GROUNDWATER ELEVATION AT, OR BELOW, THE OUTLET PIPE INVERT ELEVATION. ENGINEER OF RECORD TO CONFIRM ACTUAL GROUNDWATER ELEVATION. CASTINGS SHALL MEET AASHTO M306 AND BE CAST WITH THE CONTECH LOGO.
- IF REQUIRED, PVC HYDRAULIC SHEAR PLATE IS PLACED ON SHELF AT BOTTOM OF SCREEN CYLINDER. REMOVE AND REPLACE AS NECESSARY DURING MAINTENANCE CLEANING
- CDS STRUCTURE SHALL BE PRECAST CONCRETE CONFORMING TO ASTM C-478 AND AASHTO LOAD FACTOR DESIGN METHOD.

INSTALLATION NOTES

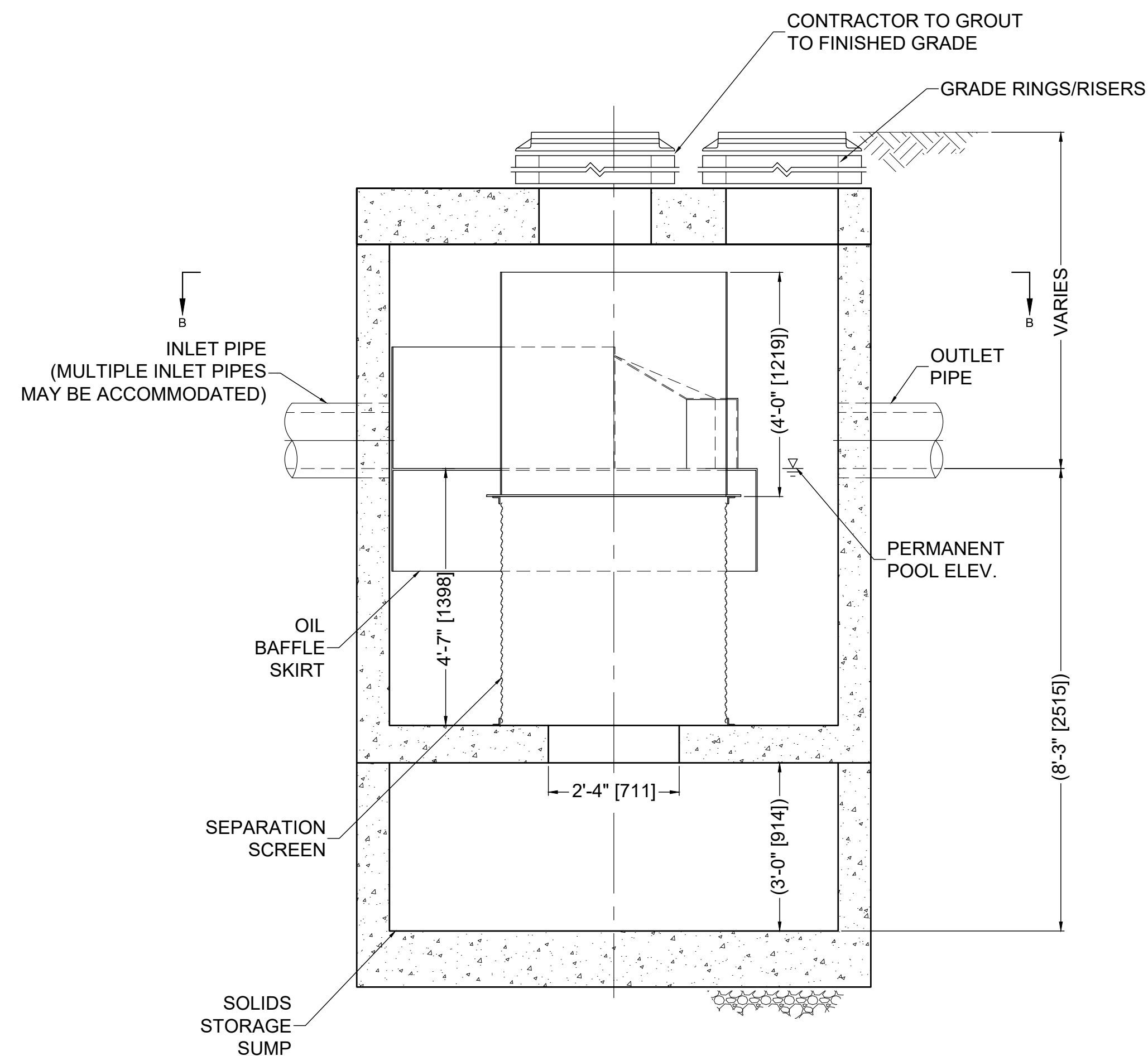
- ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD WITH FINAL DESIGN.
- CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE CDS MANHOLE STRUCTURE (LIFTING CLUTCHES PROVIDED).
- CONTRACTOR TO ADD JOINT SEALANT BETWEEN ALL STRUCTURE SECTIONS, AND ASSEMBLE STRUCTURE.
- CONTRACTOR TO PROVIDE, INSTALL, AND GROUT PIPES. MATCH PIPE INVERTS WITH ELEVATIONS SHOWN.
- CONTRACTOR TO TAKE APPROPRIATE MEASURES TO ASSURE UNIT IS WATER TIGHT, HOLDING WATER TO FLOWLINE INVERT MINIMUM. IT IS SUGGESTED THAT ALL JOINTS BELOW PIPE INVERTS ARE GROUTED.

SPECIAL NOTES:

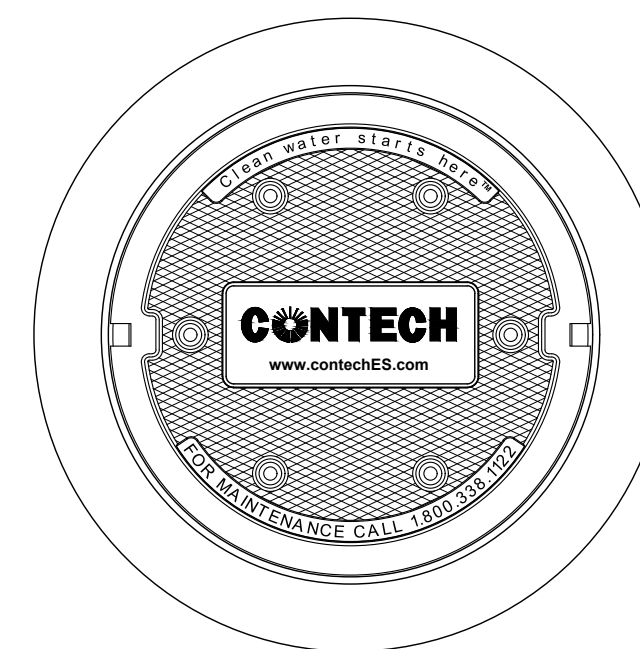
- CDS STRUCTURES SHALL BE DESIGNED AND CONSTRUCTED TO WITHSTAND AIRCRAFT LOADING AS SHOWN ON THE STORM DRAIN DETAILS, SHEET CU.06.



PLAN VIEW B-B
N.T.S.



ELEVATION A-A
N.T.S.



FRAME AND COVER
(DIAMETER VARIES)
N.T.S.

1
CU.04 **CDS4040-8-C**
SCALE: NTS

SITE SPECIFIC DATA REQUIREMENTS

STRUCTURE ID	SWQ-1
WATER QUALITY FLOW RATE (CFS OR L/s)	4.98
PEAK FLOW RATE (CFS OR L/s)	260
RETURN PERIOD OF PEAK FLOW (YRS)	100YR
SCREEN APERTURE (2400 OR 4700)	*

PIPE DATA:	I.E.	MATERIAL	DIAMETER
INLET PIPE 1	84.68	CLASS V RCP	42"
INLET PIPE 2			
OUTLET PIPE	84.68	CLASS V RCP	42"

RIM ELEVATION 92.08

ANTI-FLOTATION BALLAST	WIDTH	HEIGHT
	*	*

NOTES/SPECIAL REQUIREMENTS:
SITE SPECIFIC DATA REQUIREMENTS TO BE VERIFIED BY CONTRACTOR IN ACCORDANCE WITH HDS SIZING SHEET INCLUDED WITH CONSTRUCTION DOCUMENTS.
*TO BE SPECIFIED BY CONTECH E.S.



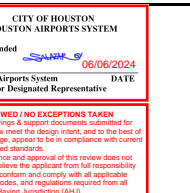
HOUSTON AIRPORT SYSTEM
GEORGE BUSH INTERCONTINENTAL
AIRPORT HOUSTON, TEXAS



13501 Katy Freeway
Suite 3425
Houston, Texas 77079
(832) 494-3800
TBPE Firm Registration No.
F-10161

REVISIONS

NO.	DESCRIPTION	DATE	BY



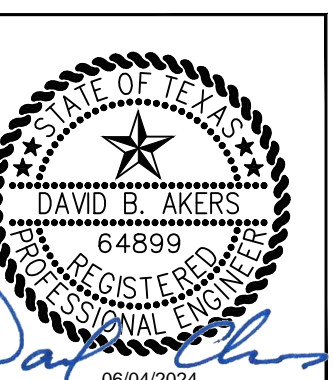
TERMINAL A NORTH IRON PARKING
AT GEORGE BUSH INTERCONTINENTAL AIRPORT

STORM DRAIN DETAILS

T.I.P. No. 23-311-IAH B.S.G. No. 2023-356-IAH

ISSUED FOR PERMIT

PROJECT MGR:	DA
DESIGNER:	BO
DRAWN BY:	ZJ
CHECKED BY:	BS
SCALE:	X
DATE:	06/03/2024

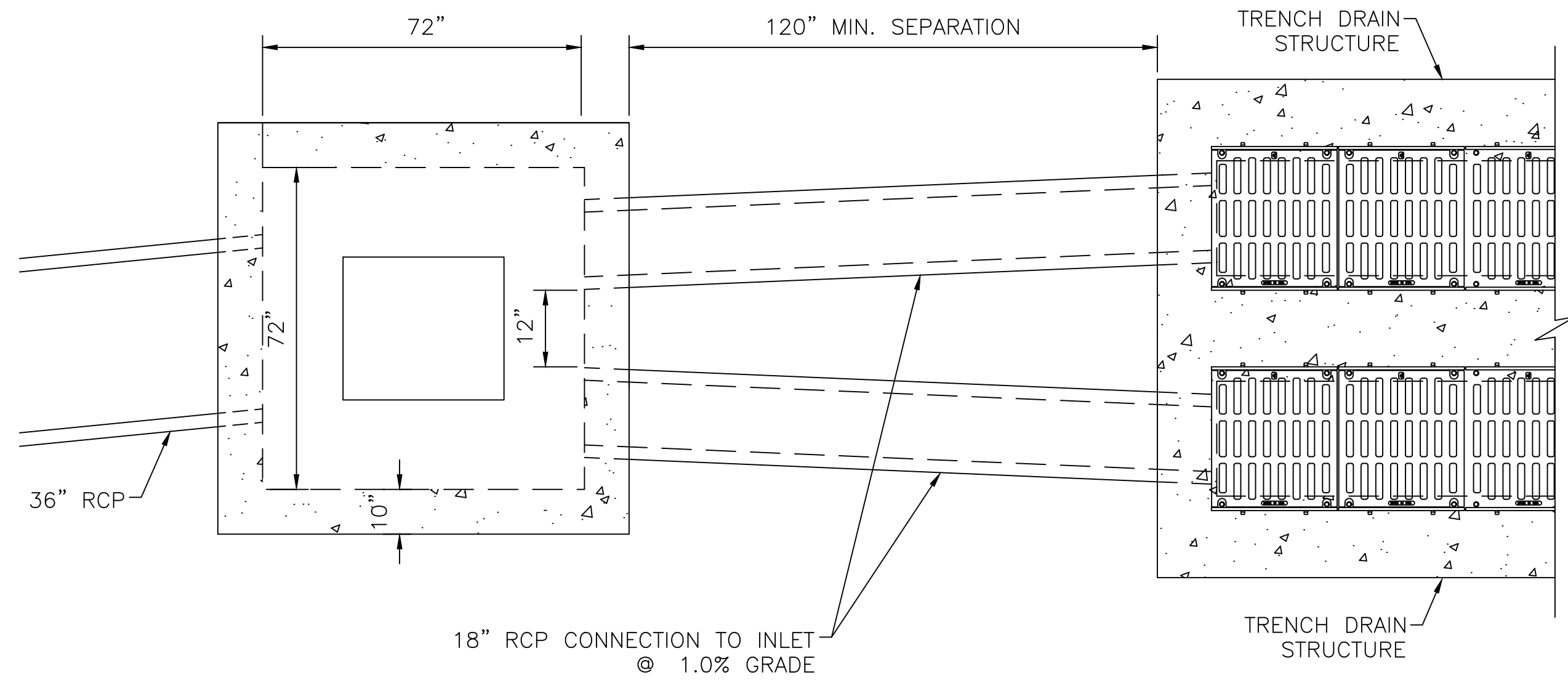


DEPARTMENT OF AVIATION	
APPROVED BY:	DATE:
HOUSTON AIRPORT SYSTEMS AUTHORIZED REPRESENTATIVE	

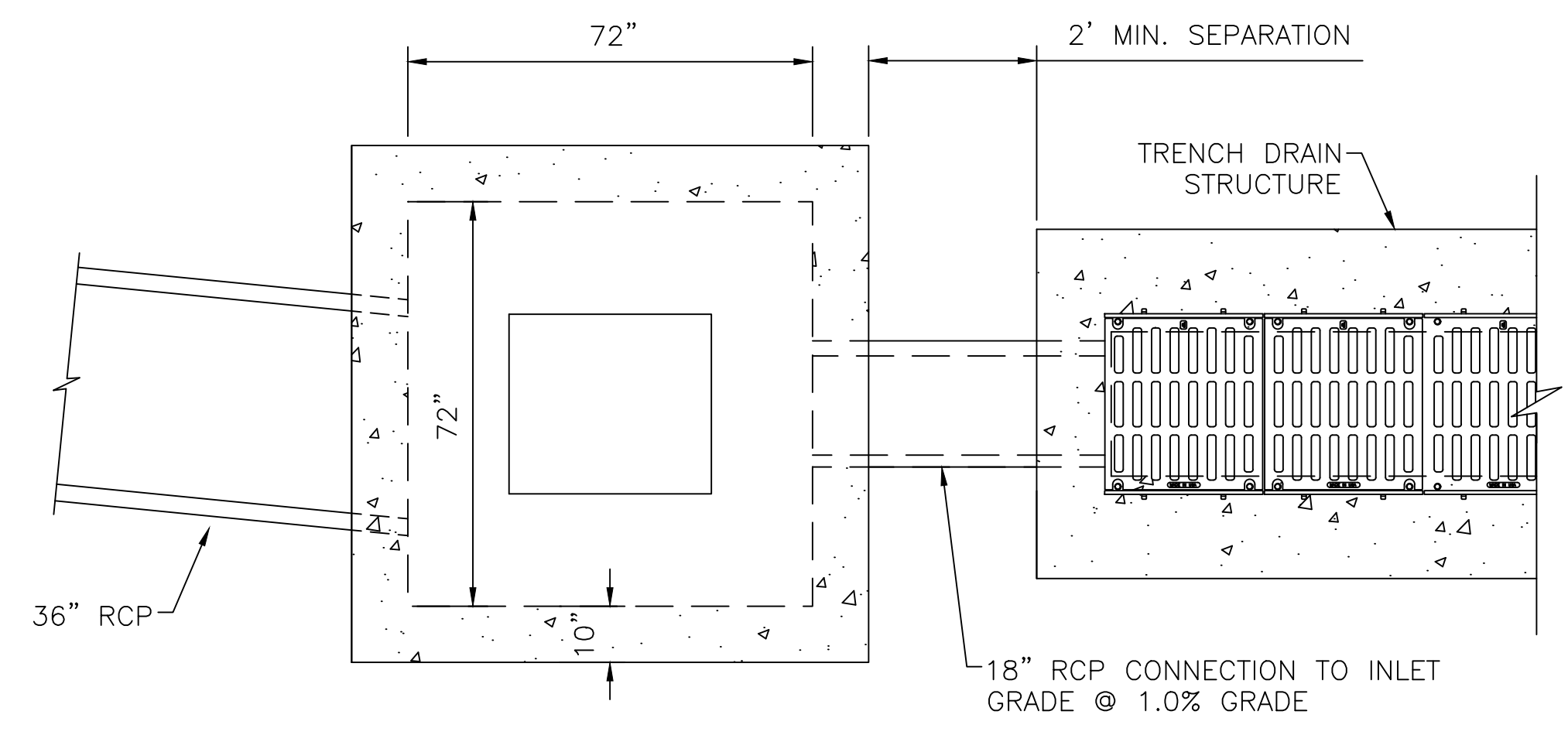
PROJECT NO.	PN 973
C.I.P. NO.	A-000713
H.A.S. NO.	
SHEET NO.	

CU.04

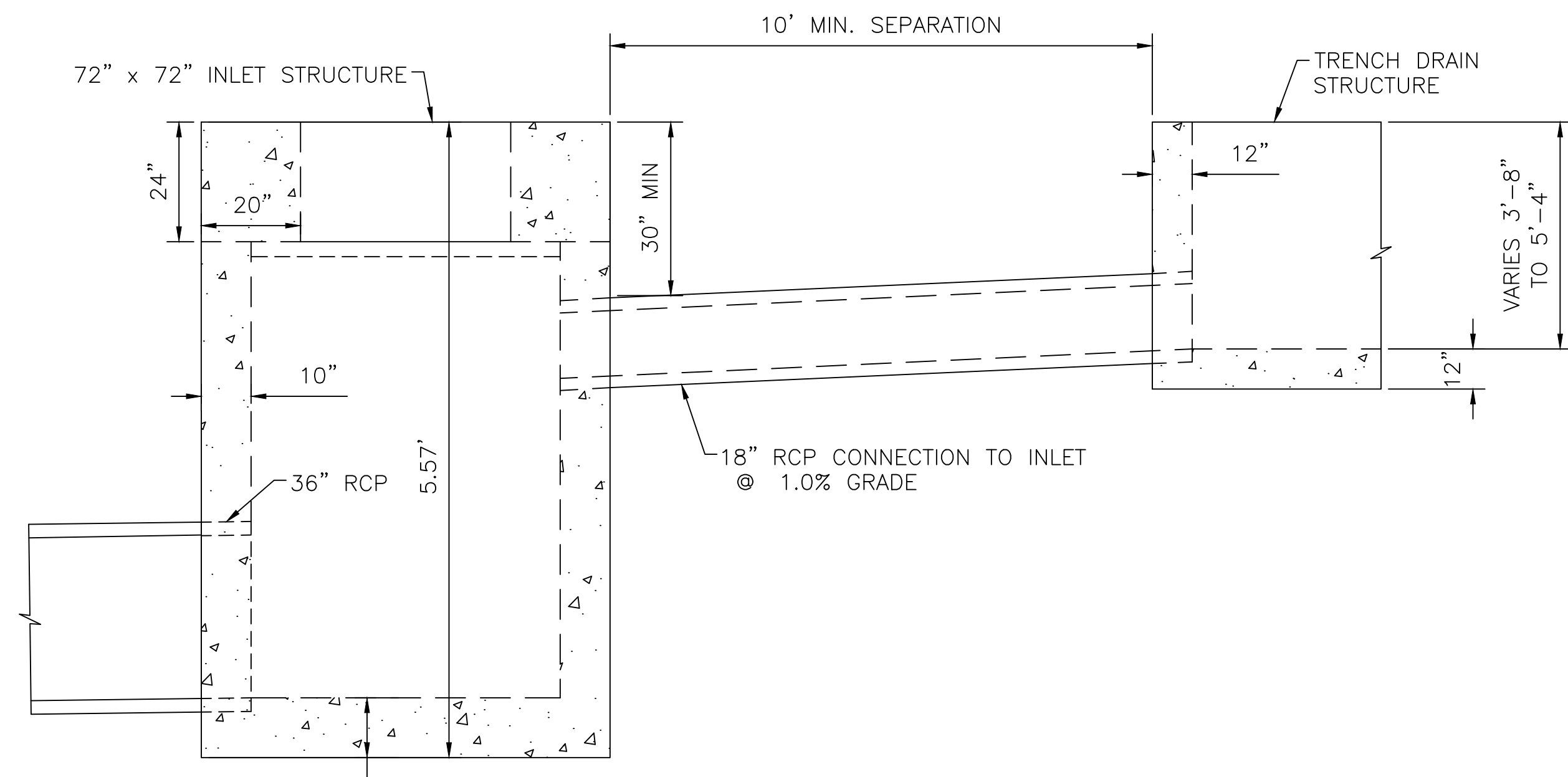
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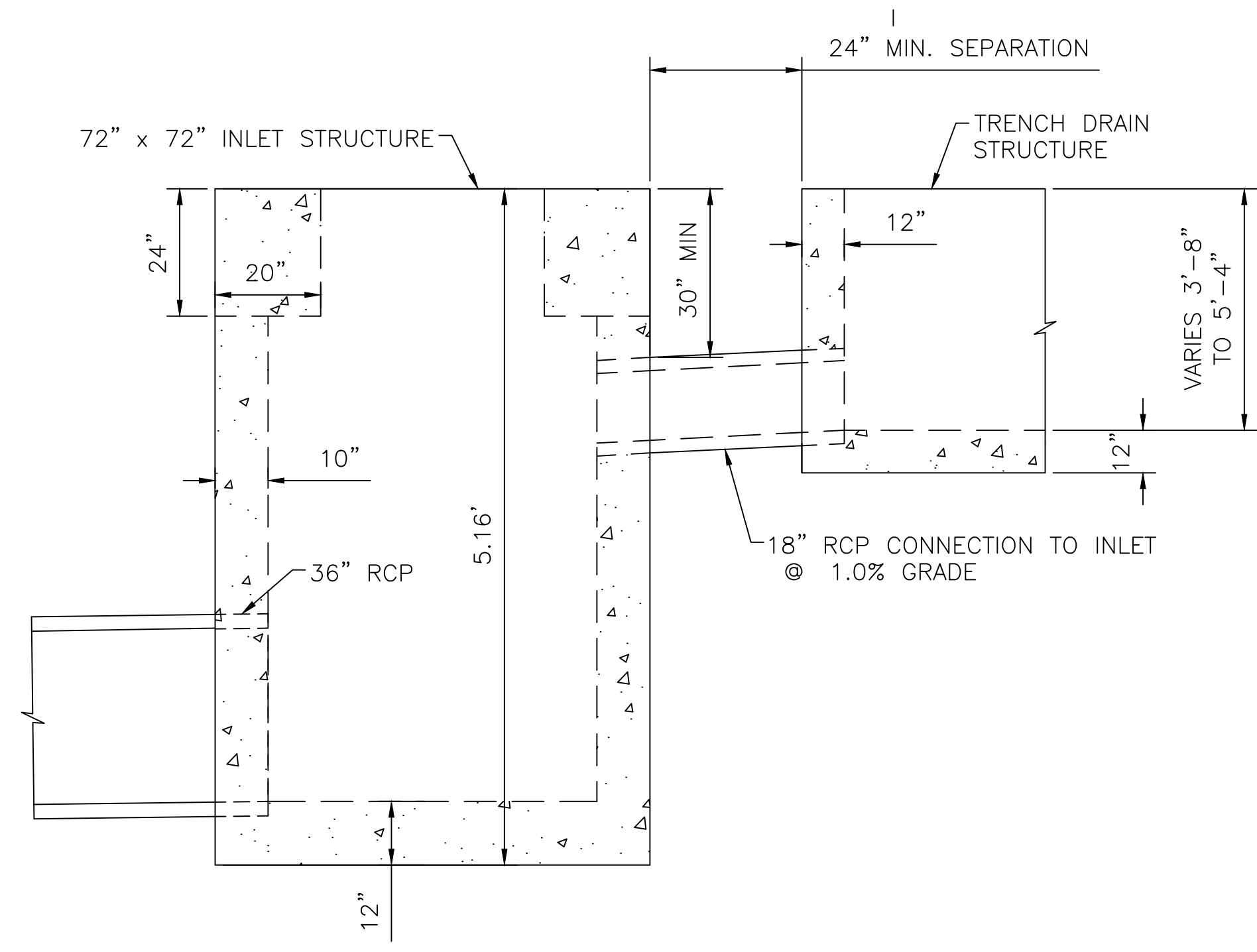
TOP VIEW



TOP VIEW



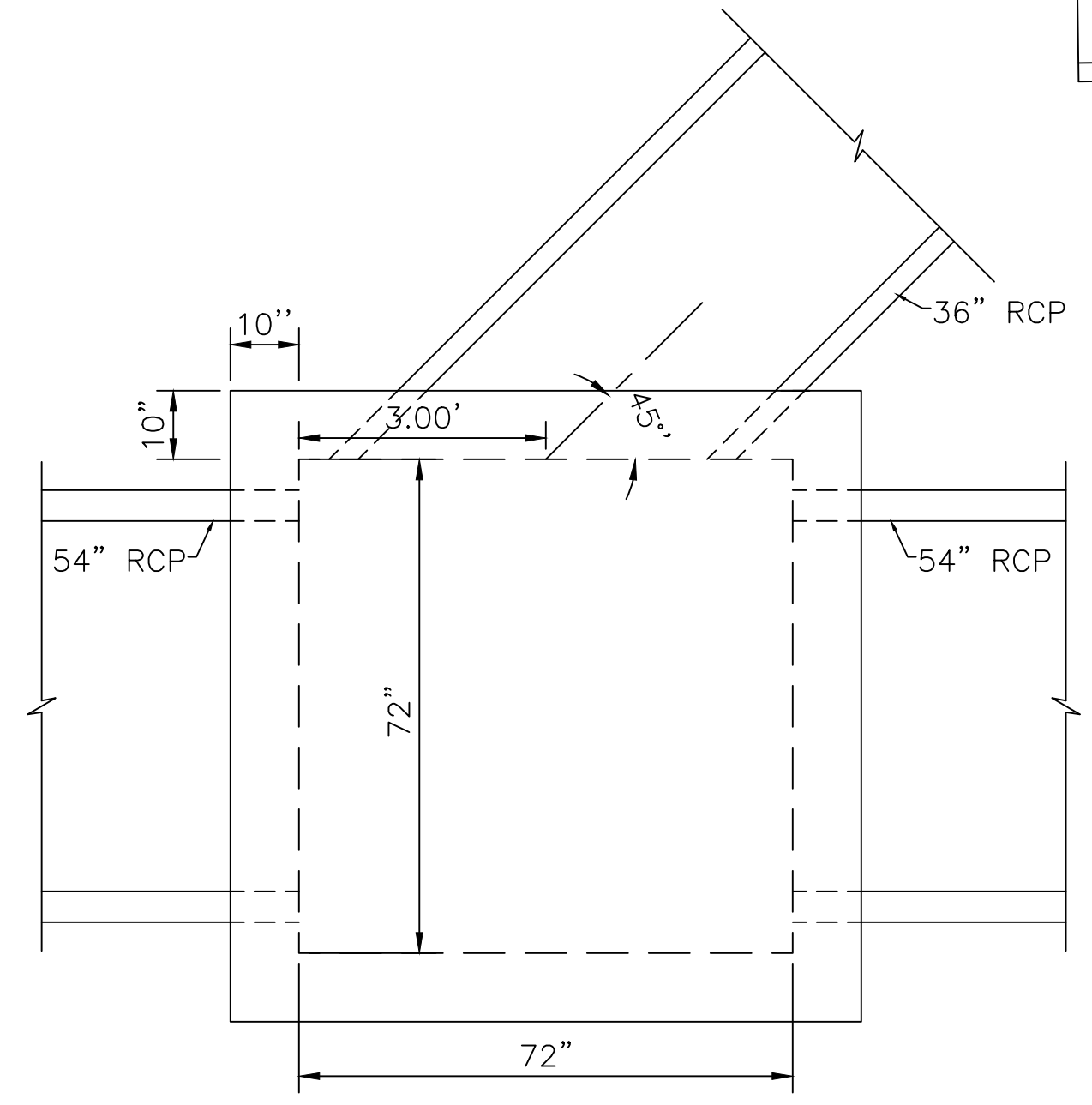
SIDE VIEW



SIDE VIEW

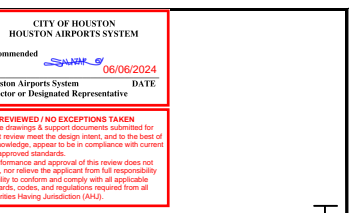
1 DUAL TRENCH DRAIN CONNECTION
CU.05 SCALE: NTS

2 SINGLE TRENCH DRAIN CONNECTION
CU.05 SCALE: NTS



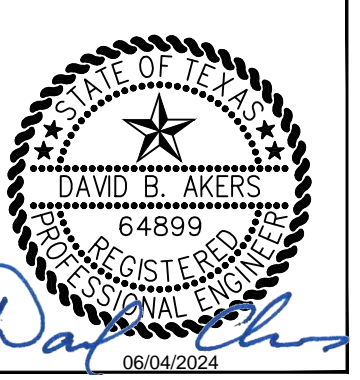
3 CONNECTION TO JUNCTION BOX DETAIL
CU.05 SCALE: NTS

REVISIONS			
NO.	DESCRIPTION	DATE	BY



TERMINAL A NORTH RON PARKING
AT GEORGE BUSH INTERCONTINENTAL AIRPORT
STORM DRAIN DETAILS
T.I.P. No. 23-311-IAH B.S.G. No. 2023-356-IAH

ISSUED FOR PERMIT	
PROJECT MGR:	DA
DESIGNER:	DA
DRAWN BY:	ZJ
CHECKED BY:	FK
SCALE:	NTS
DATE:	06/03/2024



DEPARTMENT OF AVIATION	
APPROVED BY:	DATE:
HOUSTON AIRPORT SYSTEMS AUTHORIZED REPRESENTATIVE	

PROJECT NO.	PN 973
C.I.P. NO.	A-000713
H.A.S. NO.	
SHEET NO.	



HOUSTON AIRPORT SYSTEM

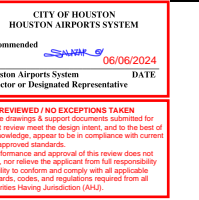
GEORGE BUSH INTERCONTINENTAL AIRPORT HOUSTON, TEXAS



13501 Katy Freeway Suite 3425 Houston, Texas 77079 (832) 494-3800 TBPE Firm Registration No. F-10161

REVISIONS

NO. DESCRIPTION DATE BY



TERMINAL A NORTH IRON PARKING AT GEORGE BUSH INTERCONTINENTAL AIRPORT

STORM DRAIN DETAILS

T.I.P. No. 23-311-IAH B.S.G. No. 2023-356-IAH

ISSUED FOR PERMIT

PROJECT MGR: DA DESIGNER: DG DRAWN BY: ZJ CHECKED BY: FK SCALE: NTS DATE: 06/03/2024



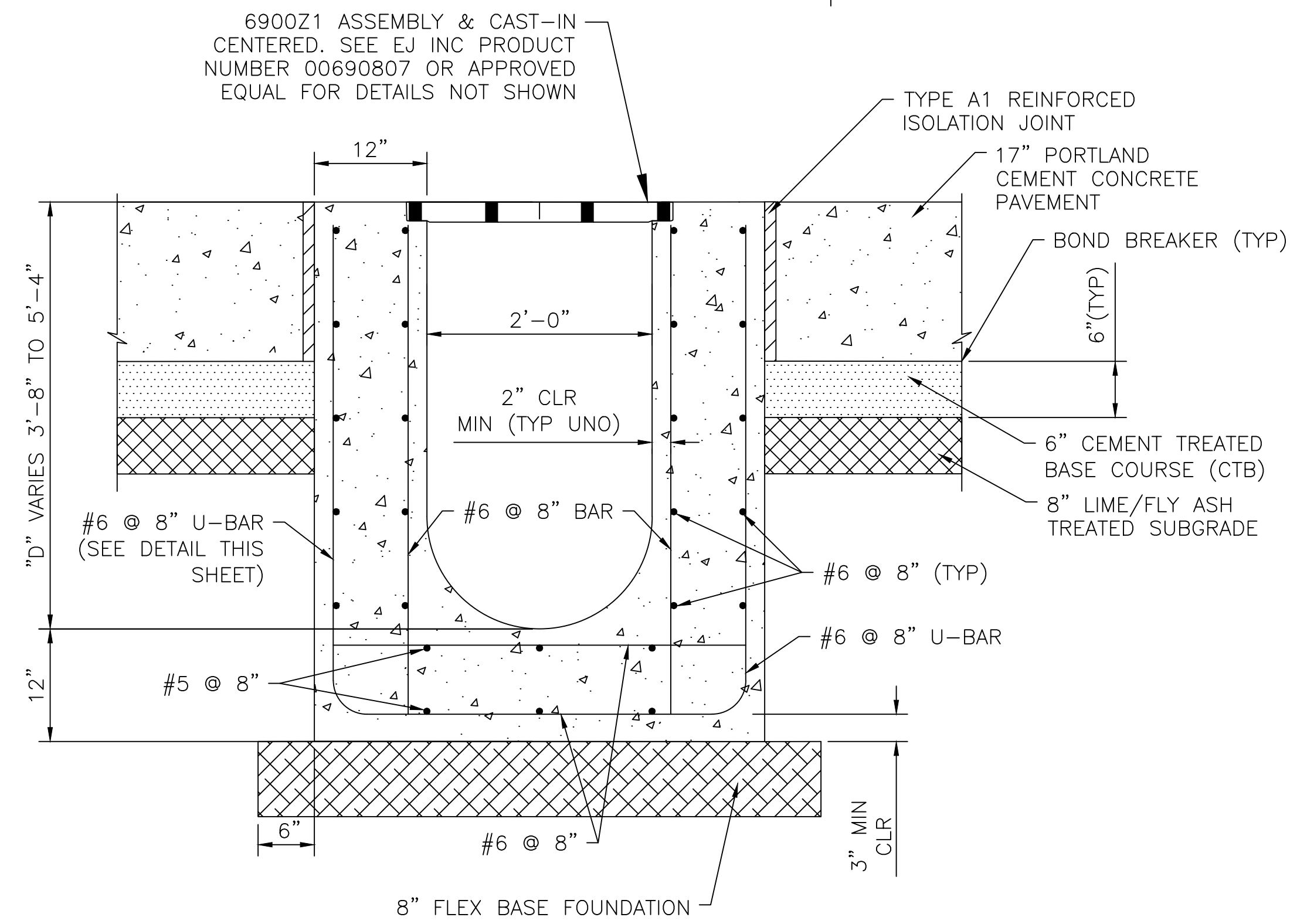
DEPARTMENT OF AVIATION APPROVED BY: DATE: HOUSTON AIRPORT SYSTEMS AUTHORIZED REPRESENTATIVE

PROJECT NO. PN 973 C.I.P. NO. A-000713 H.A.S. NO. SHEET NO.

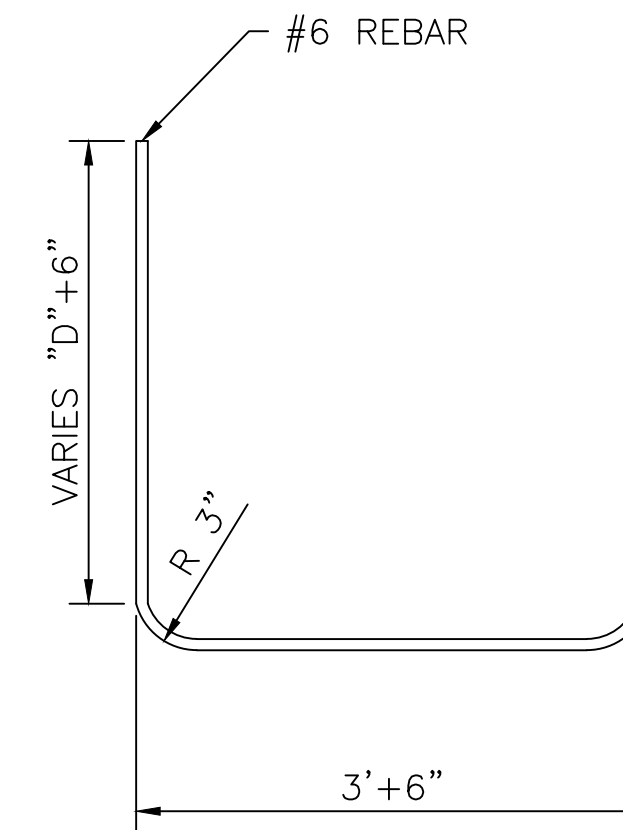
CU.06

STRUCTURAL NOTES

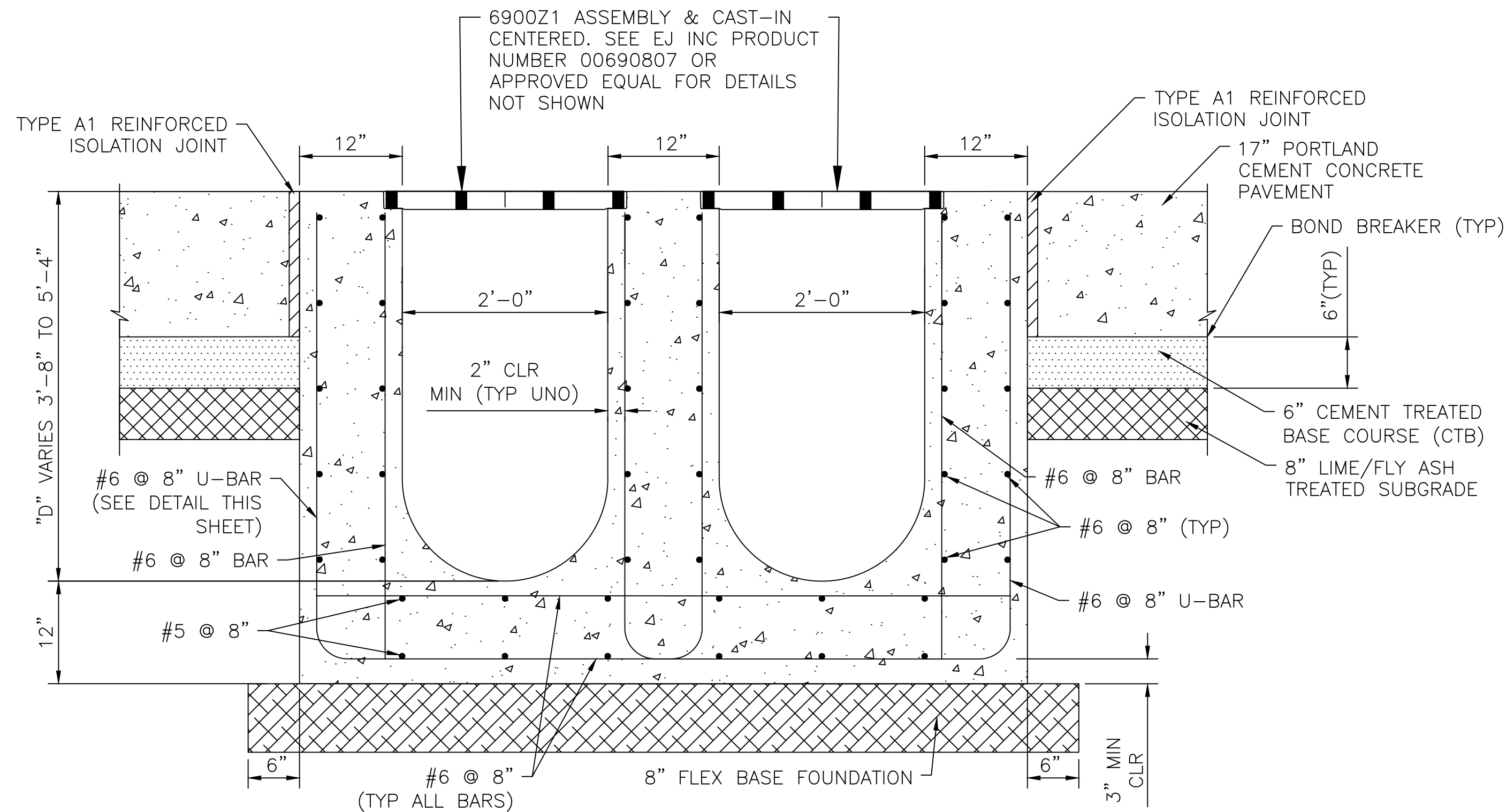
- 1. CONCRETE: 28 DAY COMPRESSIVE STRENGTH f'c = 5000 PSI MINIMUM. 2. REBAR: A-615 GRADE 60 STEEL OR EQUIVALENT AREA OF WWR. 3. DESIGN: AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS 9TH EDITION. 4. LOADS A. LIVE LOAD = B777 (WHEEL LOAD 80 KIP) B. LIVE LOAD SURCHARGE CALCULATED BASED ON AASHTO EQUATION 3.11.6.2-2 C. SOIL DENSITY 110 PCF D. EQUIVALENT SOIL FLUID PRESSURE: 55 PCF HORIZONTAL AND 110 PSF VERTICAL 5. ALL BOX CULVERTS AND/OR PIPES PENETRATING THE STRUCTURE MUST BE INSERTED FULLY INSIDE WALL. ALL GAPS MUST BE GROUTED SOLID. 6. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO DESIGN ENGINEER FOR REVIEW



1 SINGLE CAST IN PLACE TRENCH DRAIN DETAIL SCALE: NTS



3 U-BAR BEND DETAIL SCALE: NTS



2 DUAL TRENCH DRAIN DETAIL SCALE: NTS

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REVISIONS		
NO.	DESCRIPTION	DATE



STORM DRAIN DETAILS

ISSUED FOR PERMIT	
PROJECT MGR:	DA
DESIGNER:	DG
DRAWN BY:	ZJ
CHECKED BY:	FK
SCALE:	NTS
DATE:	06/03/2024

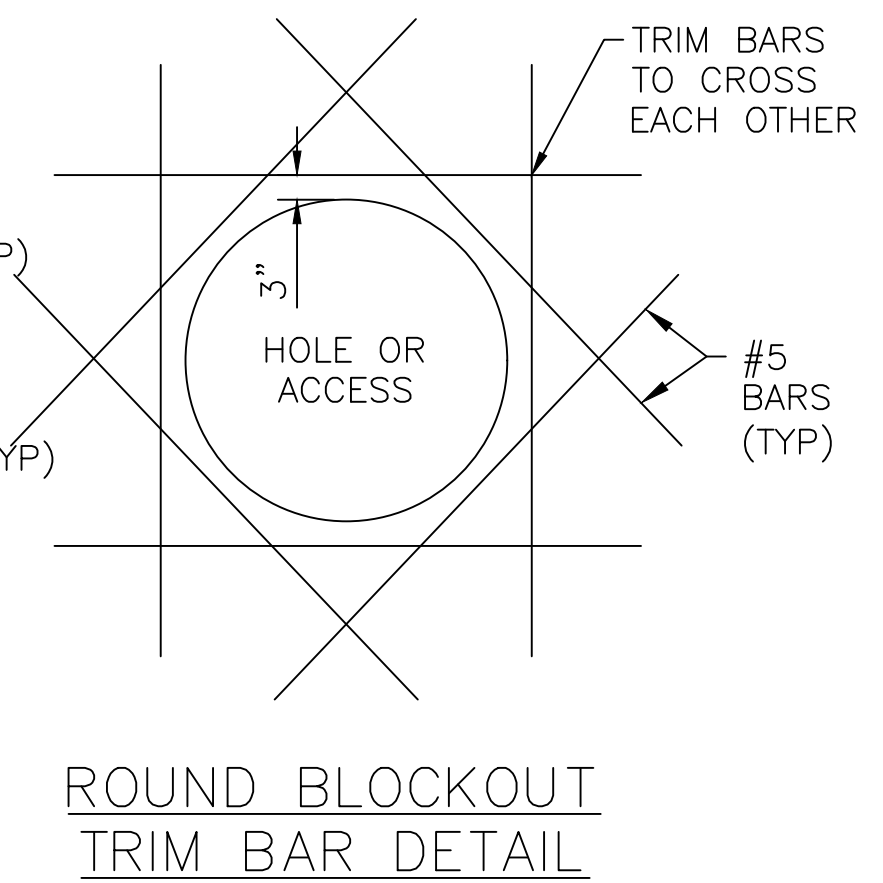
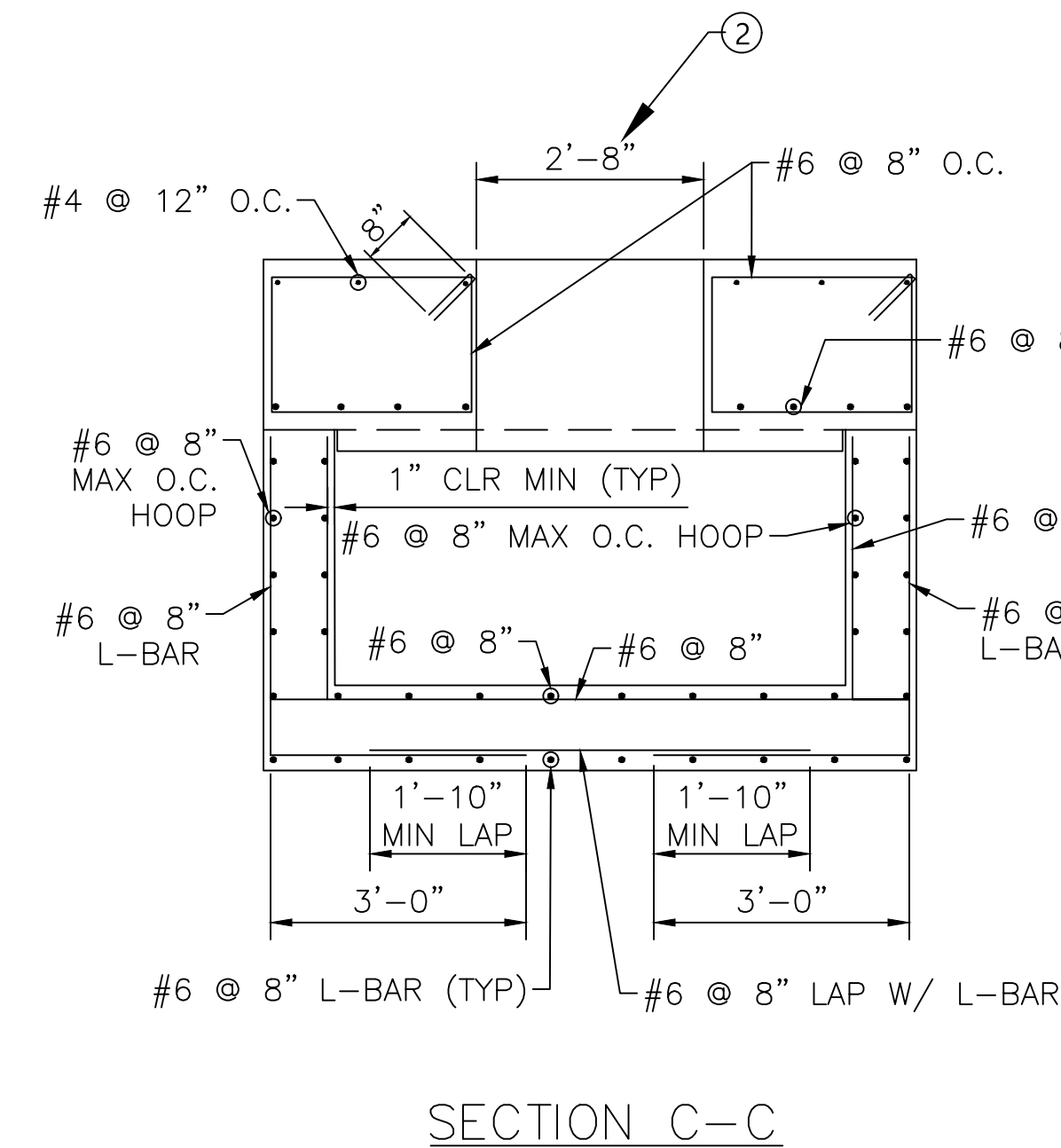
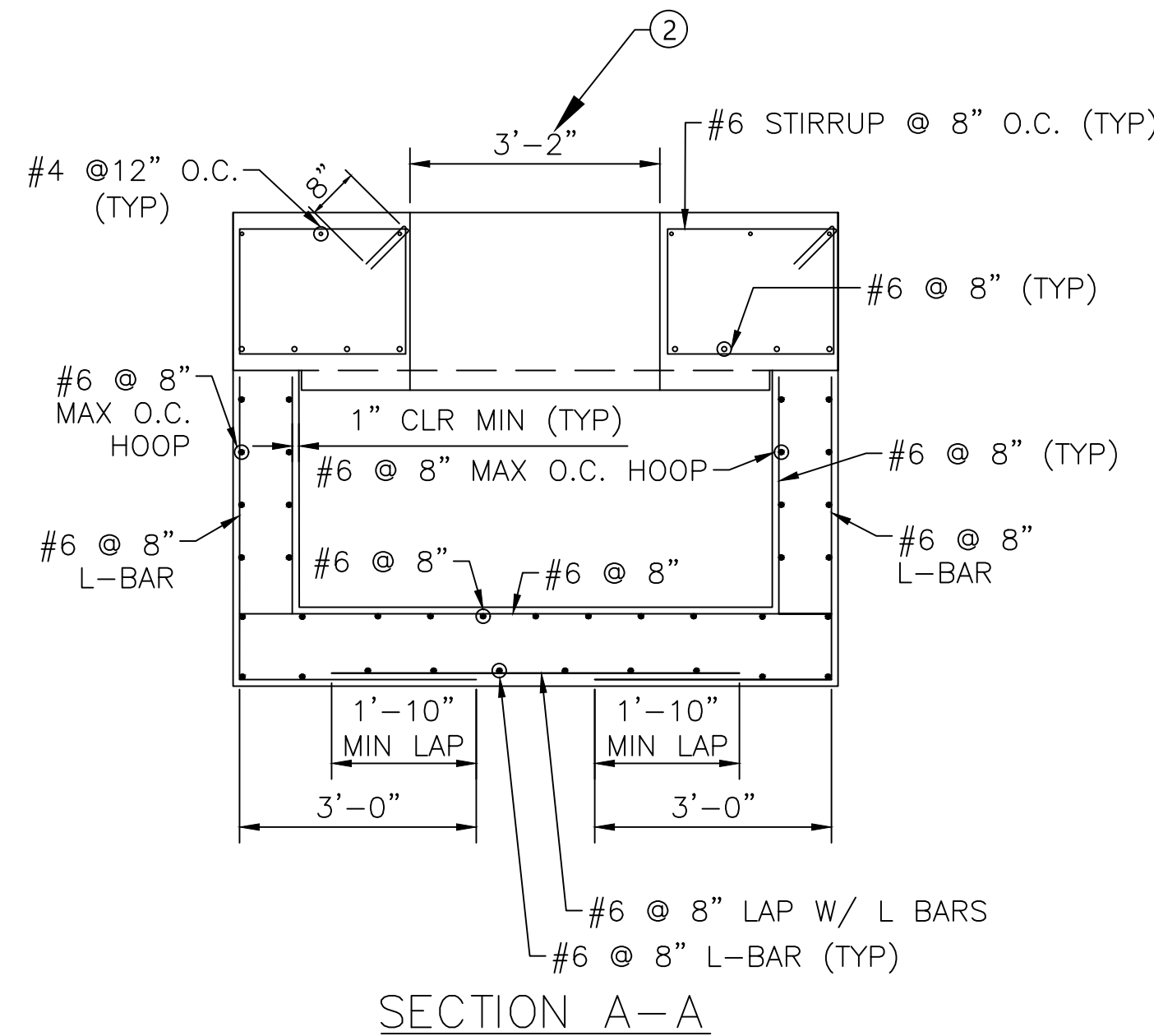
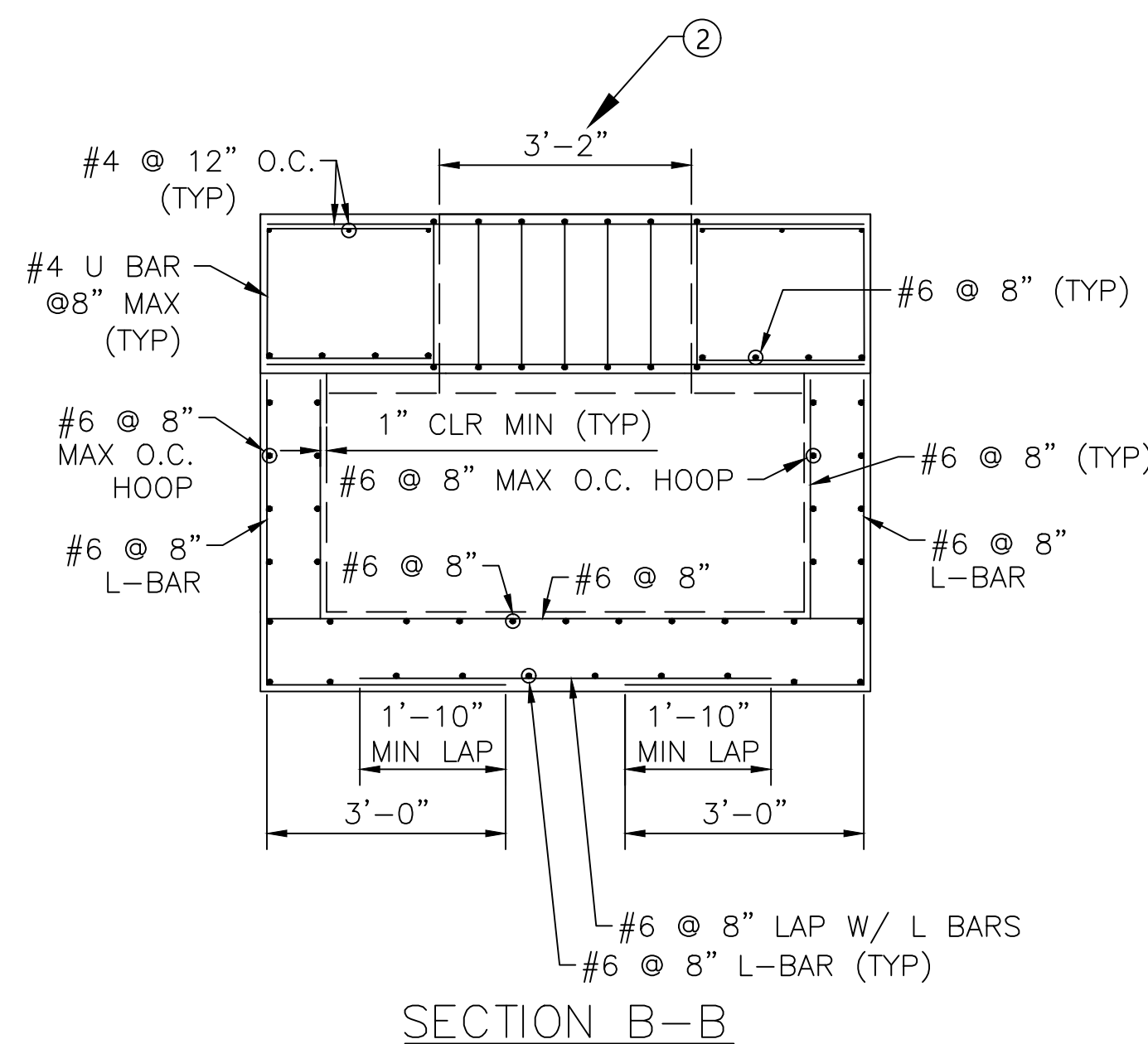
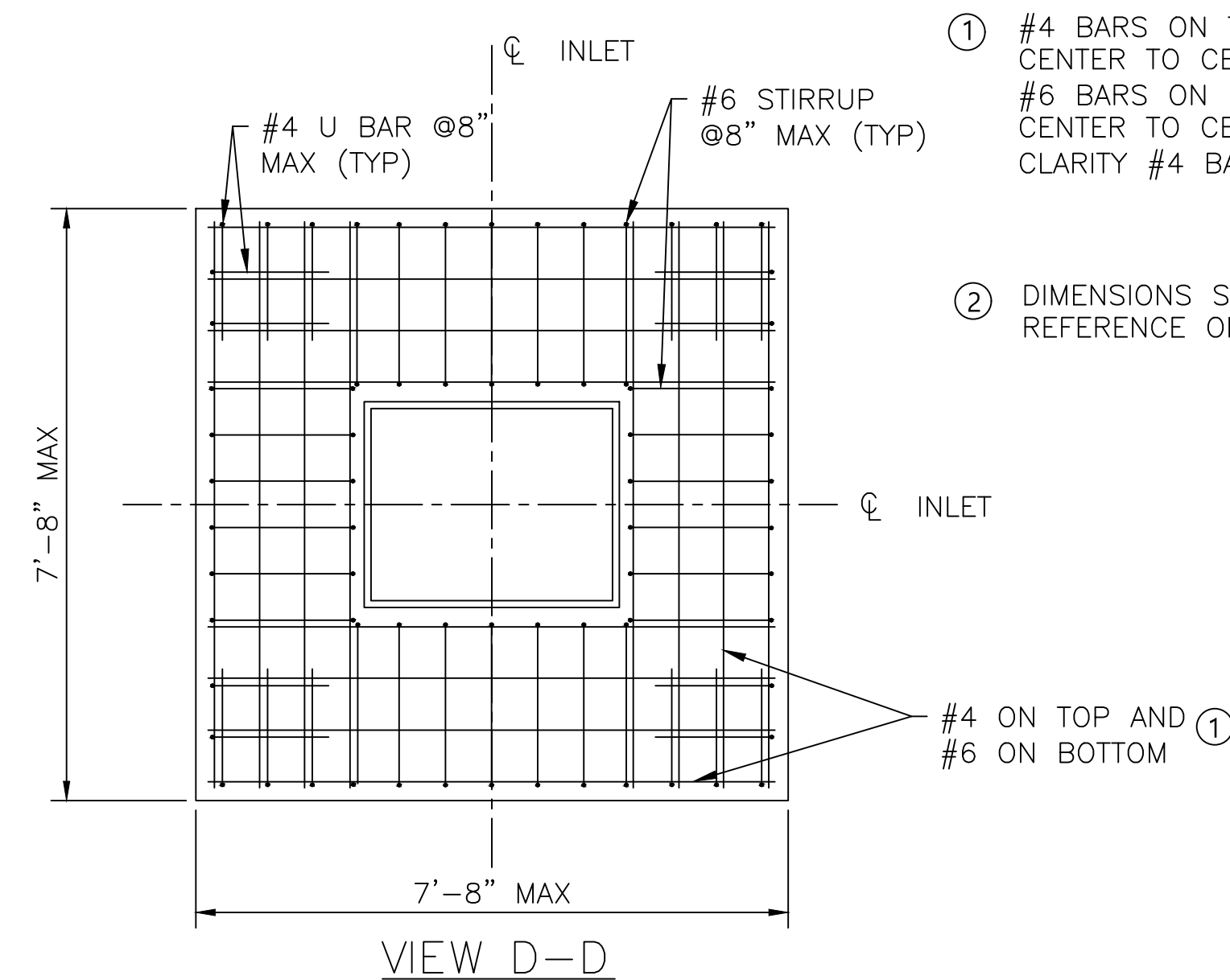
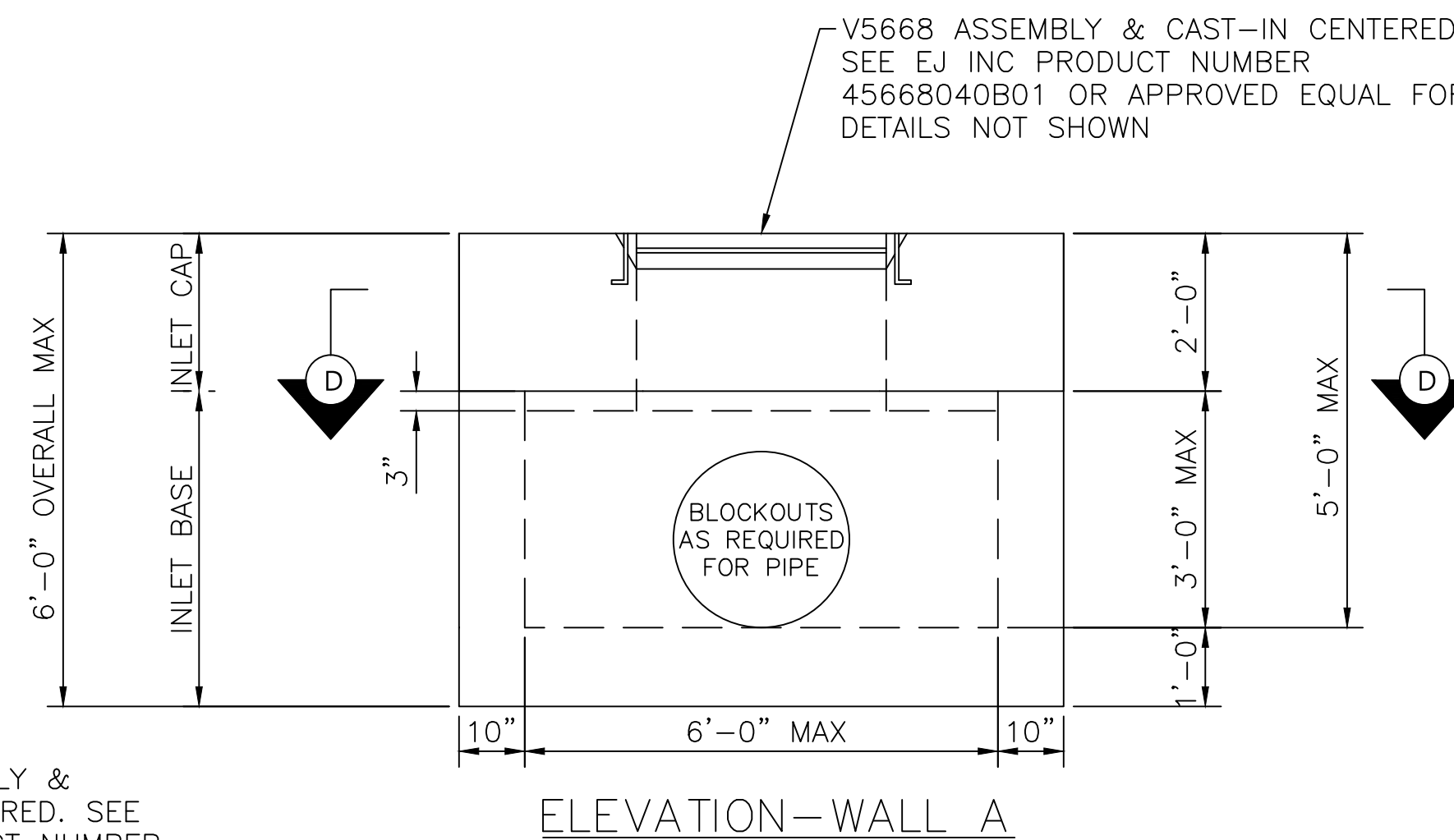
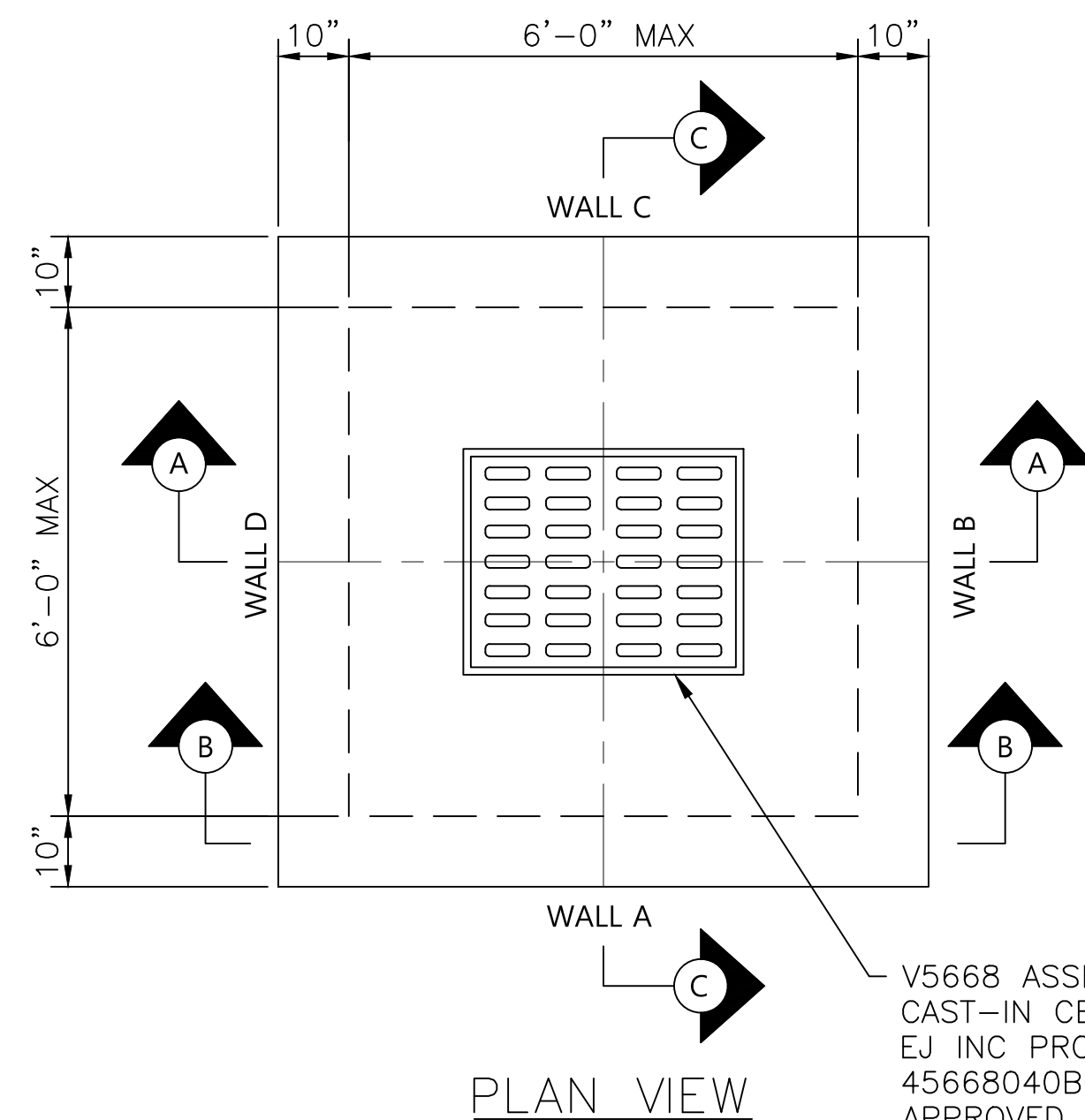


DEPARTMENT OF AVIATION	
APPROVED BY:	DATE:
HOUSTON AIRPORT SYSTEMS AUTHORIZED REPRESENTATIVE	

PROJECT NO.	PN 973
C.I.P. NO.	A-000713
H.A.S. NO.	
SHEET NO.	

STRUCTURAL NOTES

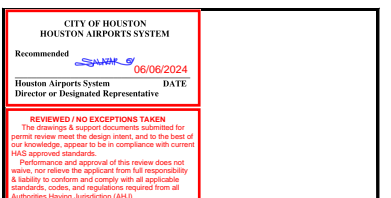
1. CONCRETE: 28 DAY COMPRESSIVE STRENGTH $f'_c = 5000$ PSI MINIMUM
2. REBAR: A-615 GRADE 60 STEEL OR EQUIVALENT AREA OF WWR.
3. DESIGN: AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS 9TH EDITION.
4. LOADS
 - A. LIVE LOAD = B777 (WHEEL LOAD 80 KIP)
 - B. LIVE LOAD SURCHARGE CALCULATED BASED ON AASHTO EQUATION 3.11.6.2-2
 - C. SOIL DENSITY 110 PCF
 - D. EQUIVALENT SOIL FLUID PRESSURE: 55 PCF HORIZONTAL AND 110 PSF VERTICAL
5. ALL BOX CULVERTS AND/OR PIPES PENETRATING THE STRUCTURE MUST BE INSERTED FULLY INSIDE WALL. ALL GAPS MUST BE GROUTED SOLID.
6. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO DESIGN ENGINEER FOR REVIEW
7. SEE SHEET CU.08 FOR JUNCTION BOX REINFORCEMENT DETAILS.



72" X 72" X 6'-0"(MAX) PRECAST CONCRETE AIRCRAFT RATED INLET
 SCALE: 1" = 2'



REVISIONS			
NO.	DESCRIPTION	DATE	BY



TERMINAL A NORTH IRON PARKING
 AT GEORGE BUSH INTERCONTINENTAL AIRPORT

STORM DRAIN DETAILS

T.I.P. No. 23-311-IAH B.S.G. No. 2023-356-IAH

ISSUED FOR PERMIT	
PROJECT MGR:	DA
DESIGNER:	DG
DRAWN BY:	ZJ
CHECKED BY:	FK
SCALE:	NTS
DATE:	06/03/2024



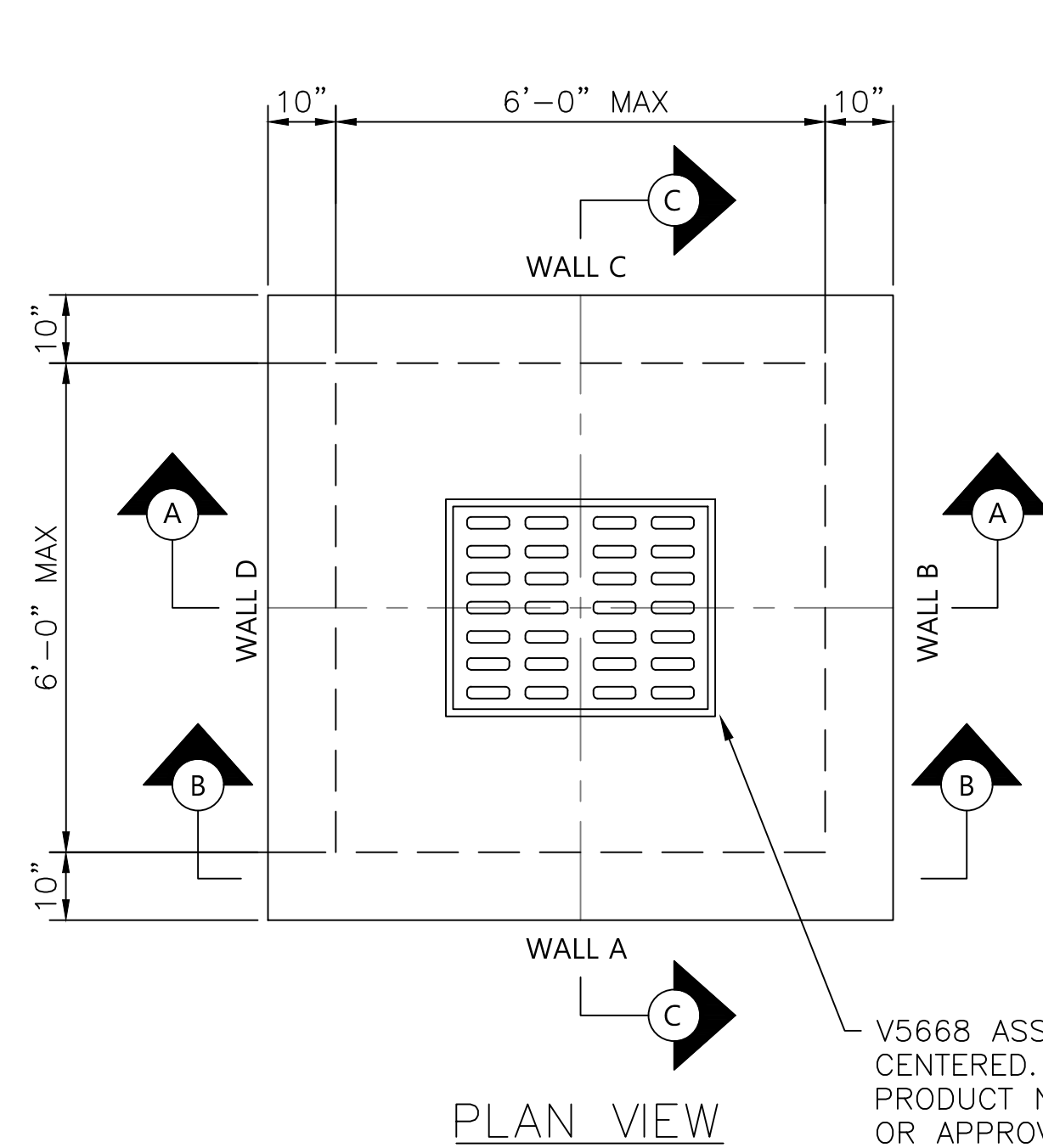
DEPARTMENT OF AVIATION	
APPROVED BY:	DATE:
HOUSTON AIRPORT SYSTEMS AUTHORIZED REPRESENTATIVE	

PROJECT NO.	PN 973
C.I.P. NO.	A-000713
H.A.S. NO.	
SHEET NO.	

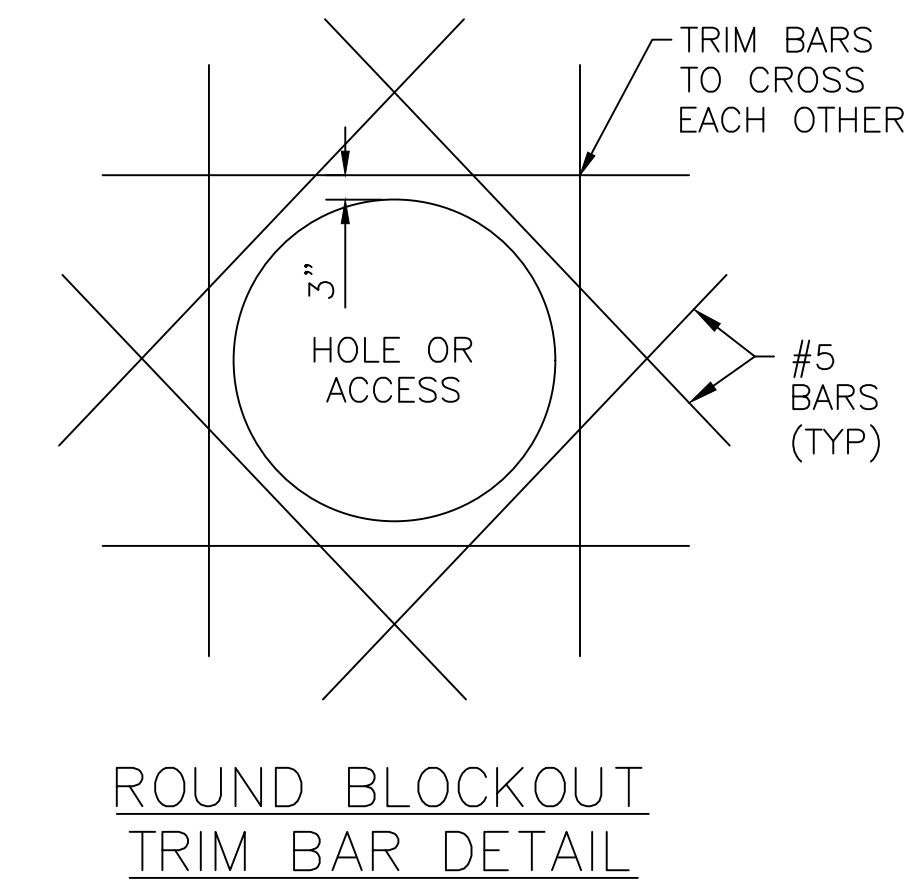
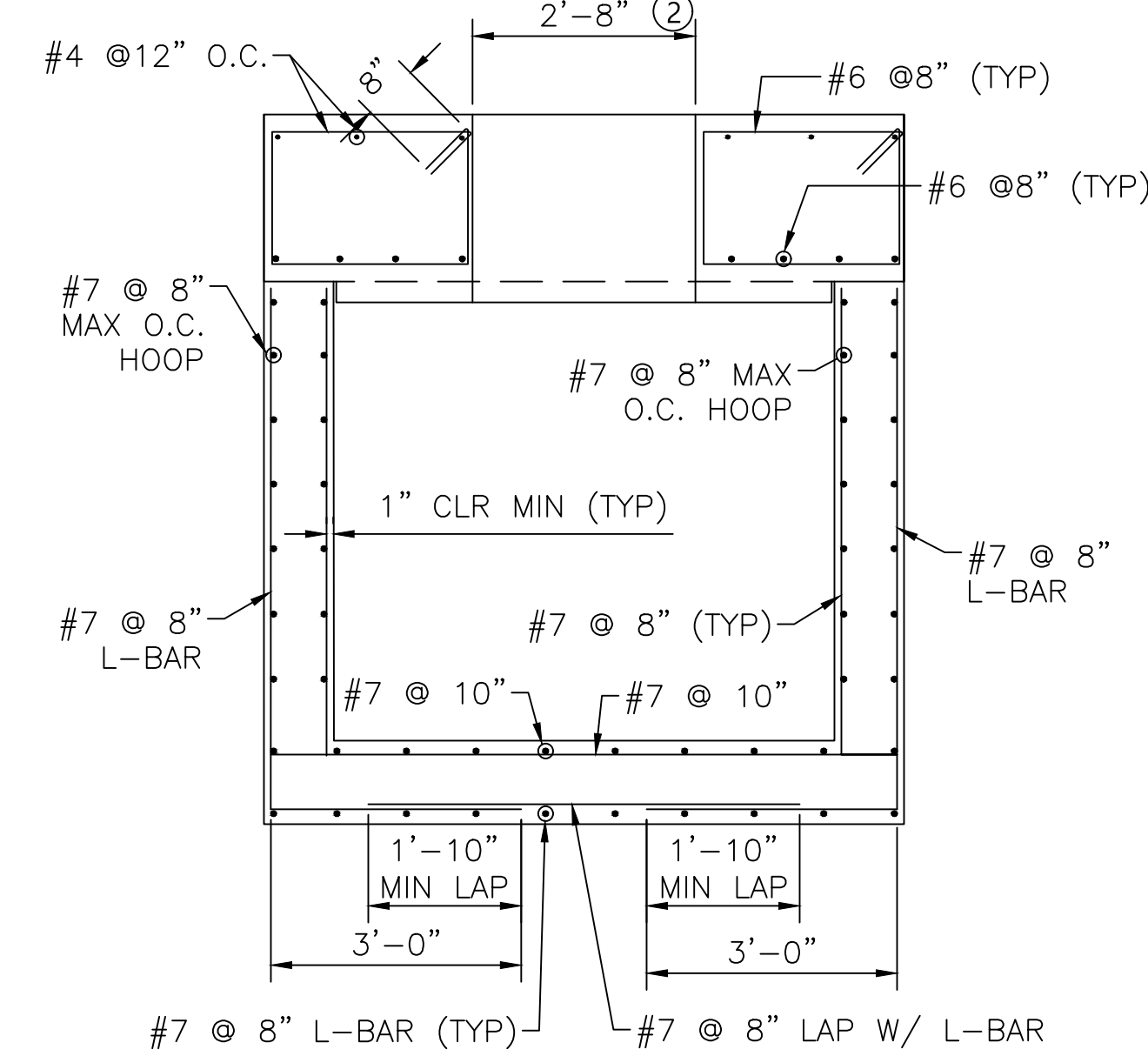
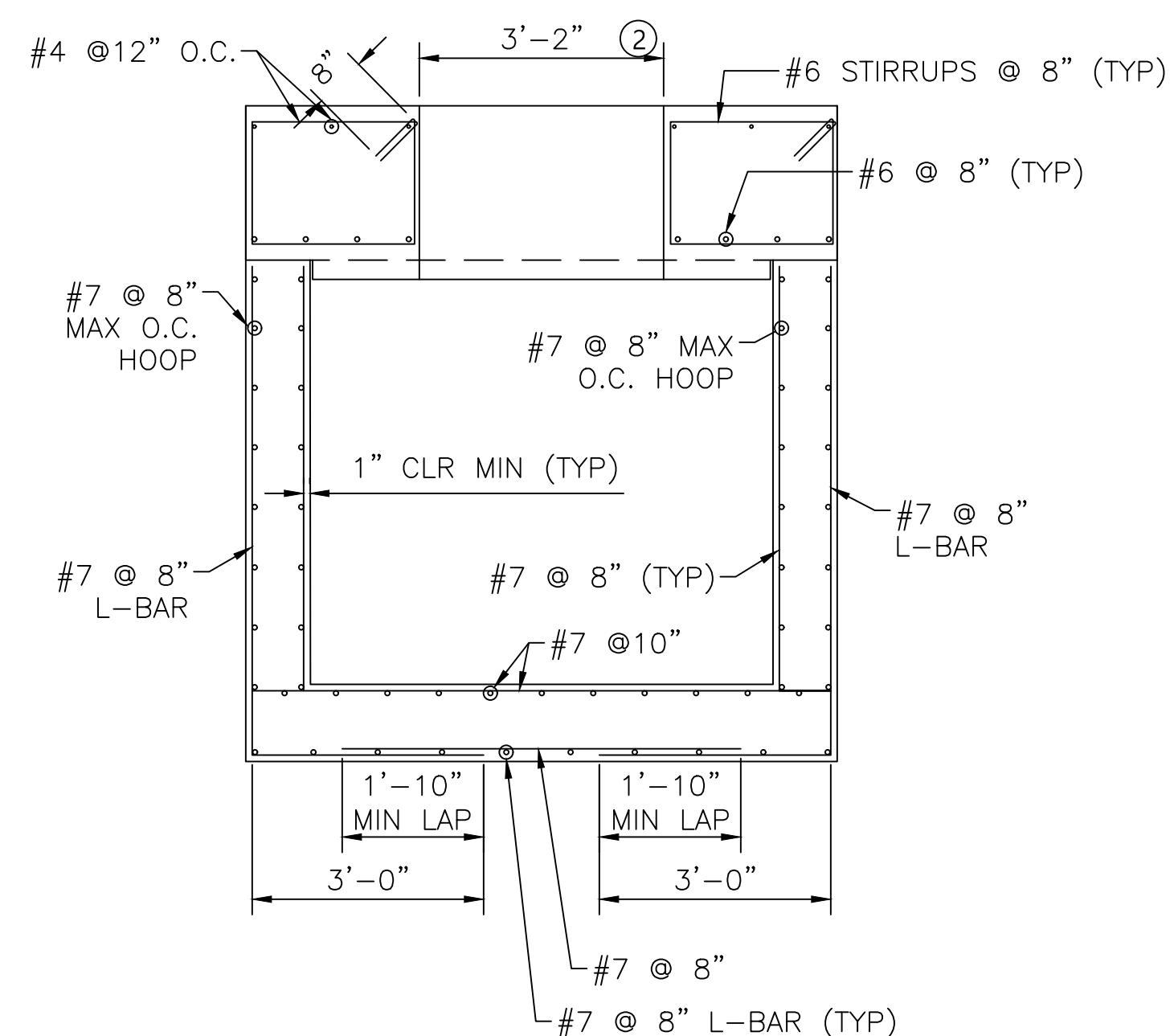
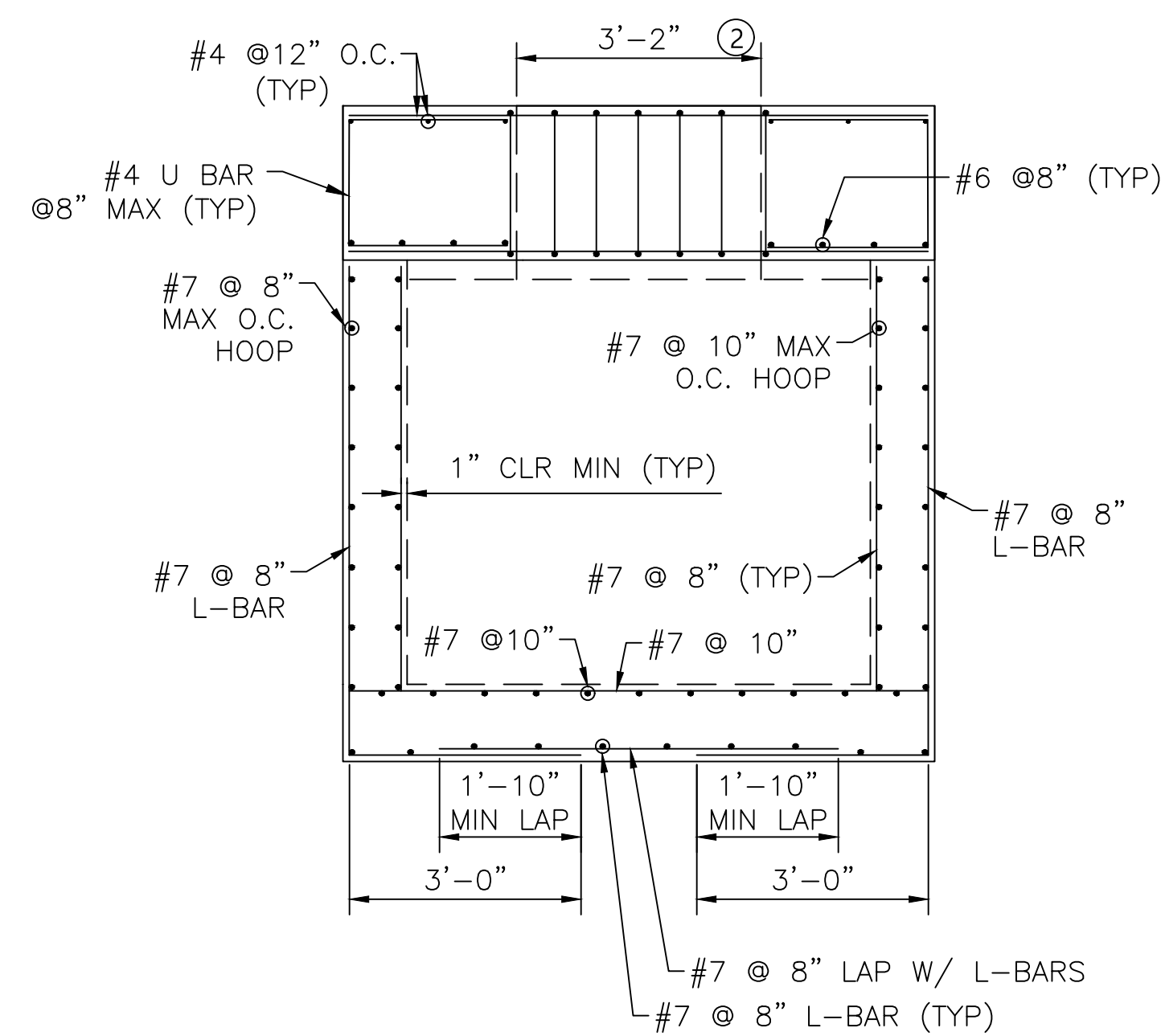
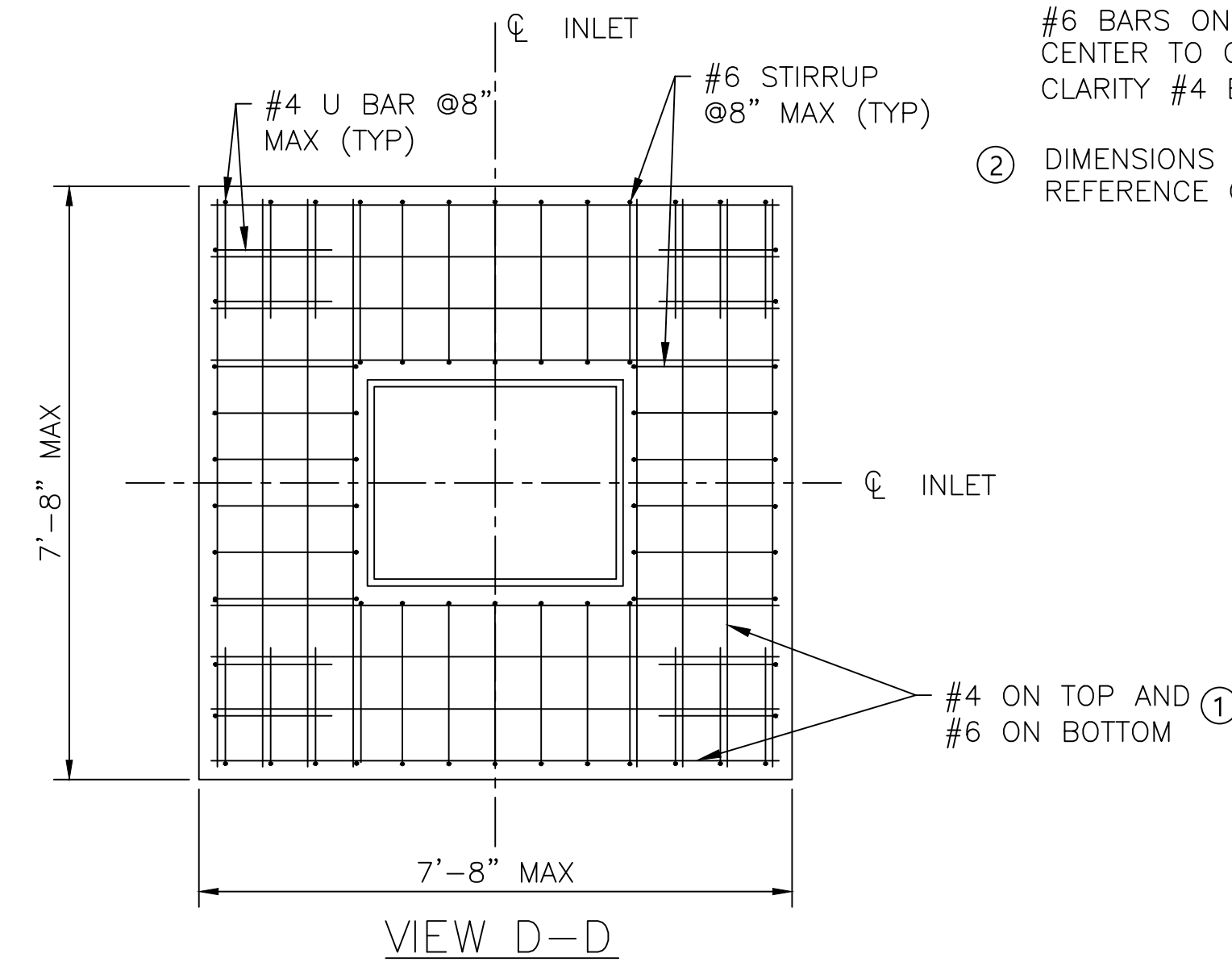
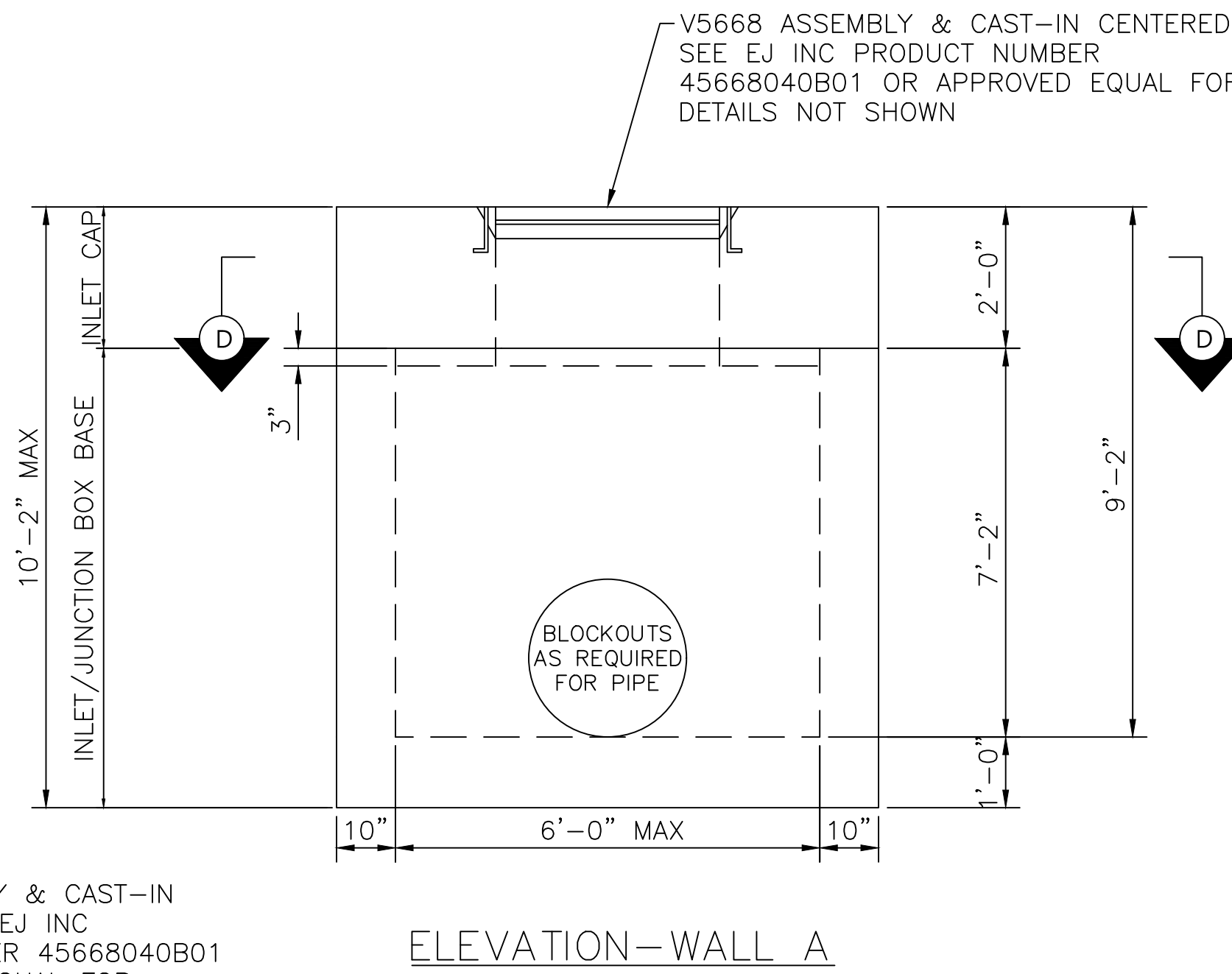
STRUCTURAL NOTES

1. SEE SHEET CU.07 FOR NOTES

- ① #4 BARS ON TOP AT 12" MAXIMUM SPACE CENTER TO CENTER IN EACH DIRECTION AND #6 BARS ON BOTTOM AT 8" MAXIMUM SPACE CENTER TO CENTER IN EACH DIRECTION. FOR CLARITY #4 BARS DO NOT SHOW.
- ② DIMENSIONS SHOWN FOR CONTRACTOR REFERENCE ONLY



V5668 ASSEMBLY & CAST-IN CENTERED. SEE EJ INC PRODUCT NUMBER 45668040B01 OR APPROVED EQUAL FOR DETAILS NOT SHOWN.



72" X 72" X 10'-2"(MAX) PRECAST CONCRETE AIRCRAFT RATED INLET/JUNCTION BOX
 SCALE: 1" = 2'



HOUSTON AIRPORT SYSTEM

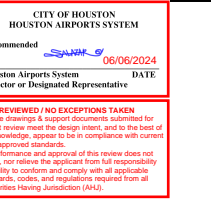
GEORGE BUSH INTERCONTINENTAL AIRPORT HOUSTON, TEXAS



13501 Katy Freeway Suite 3425 Houston, Texas 77079 (832) 494-3800 TBPE Firm Registration No. F-10161

REVISIONS

NO. DESCRIPTION DATE BY



TERMINAL A NORTH RON PARKING AT GEORGE BUSH INTERCONTINENTAL AIRPORT

JUNCTION BOX DETAILS

T.I.P. No. 23-311-IAH B.S.G. No. 2023-356-IAH

ISSUED FOR PERMIT

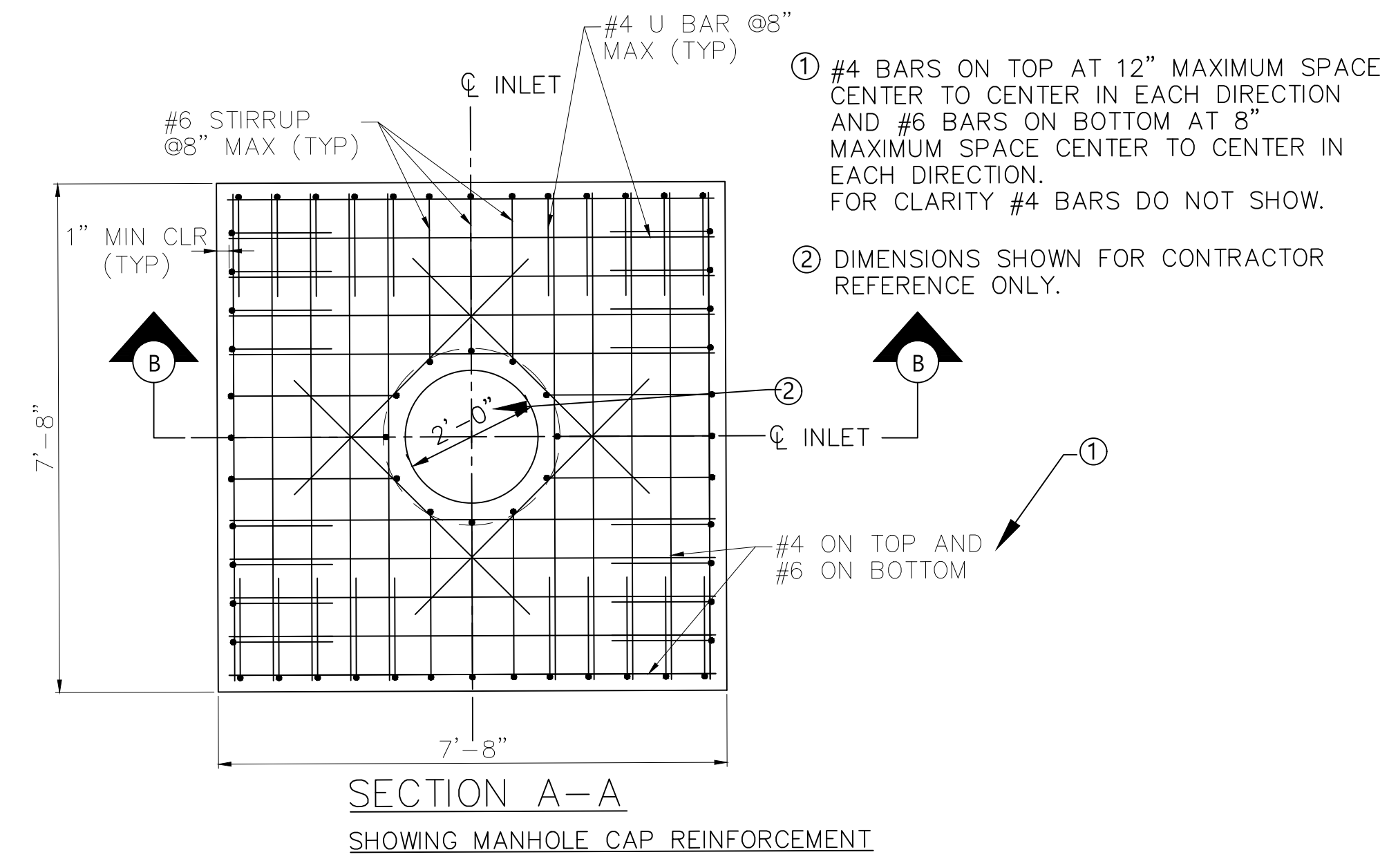
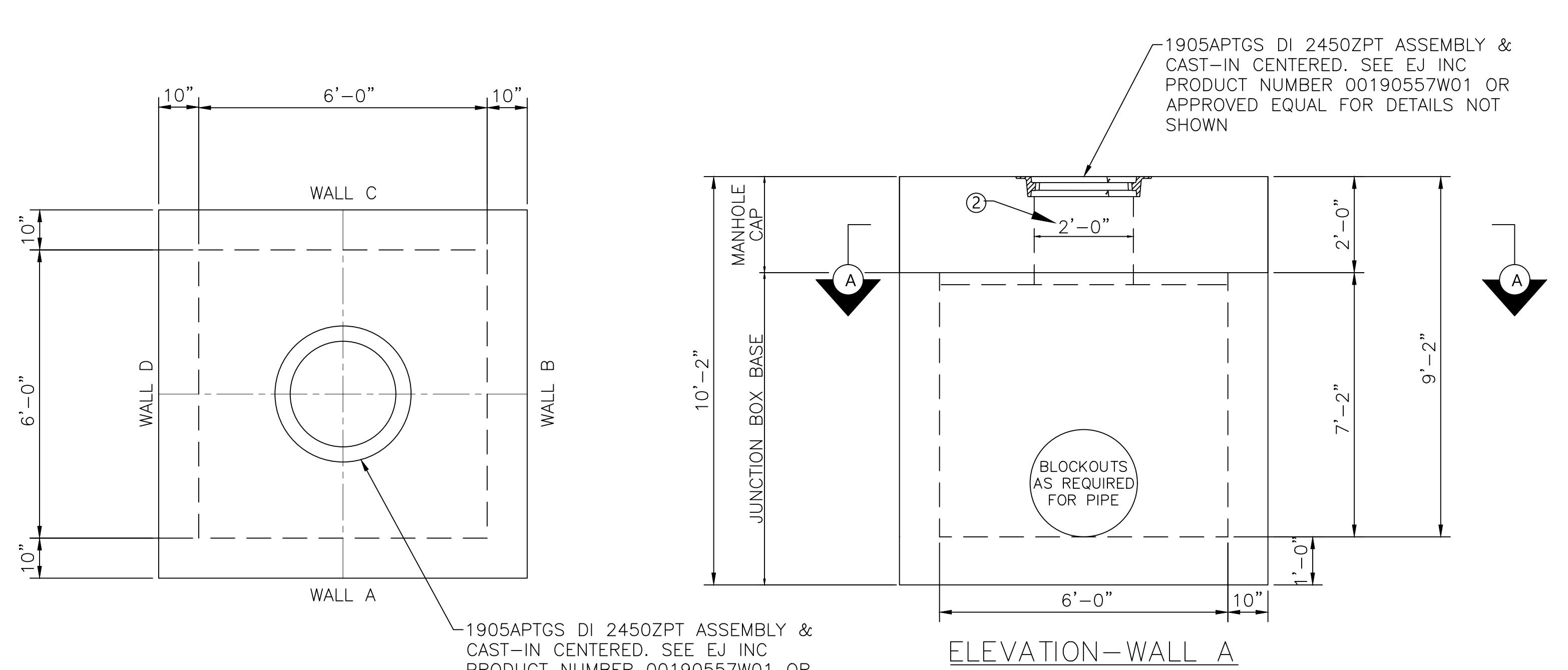
PROJECT MGR: DA DESIGNER: DG DRAWN BY: ZJ CHECKED BY: FK SCALE: NTS DATE: 06/03/2024



DEPARTMENT OF AVIATION APPROVED BY: DATE: HOUSTON AIRPORT SYSTEMS AUTHORIZED REPRESENTATIVE

PROJECT NO. PN 973 C.I.P. NO. A-000713 H.A.S. NO. SHEET NO.

CU.09



72" X 72" PRECAST CONCRETE AIRCRAFT RATED JUNCTION BOX SCALE: 1" = 2'

STRUCTURAL NOTES: 1. SEE SHEET CU.07 FOR NOTES

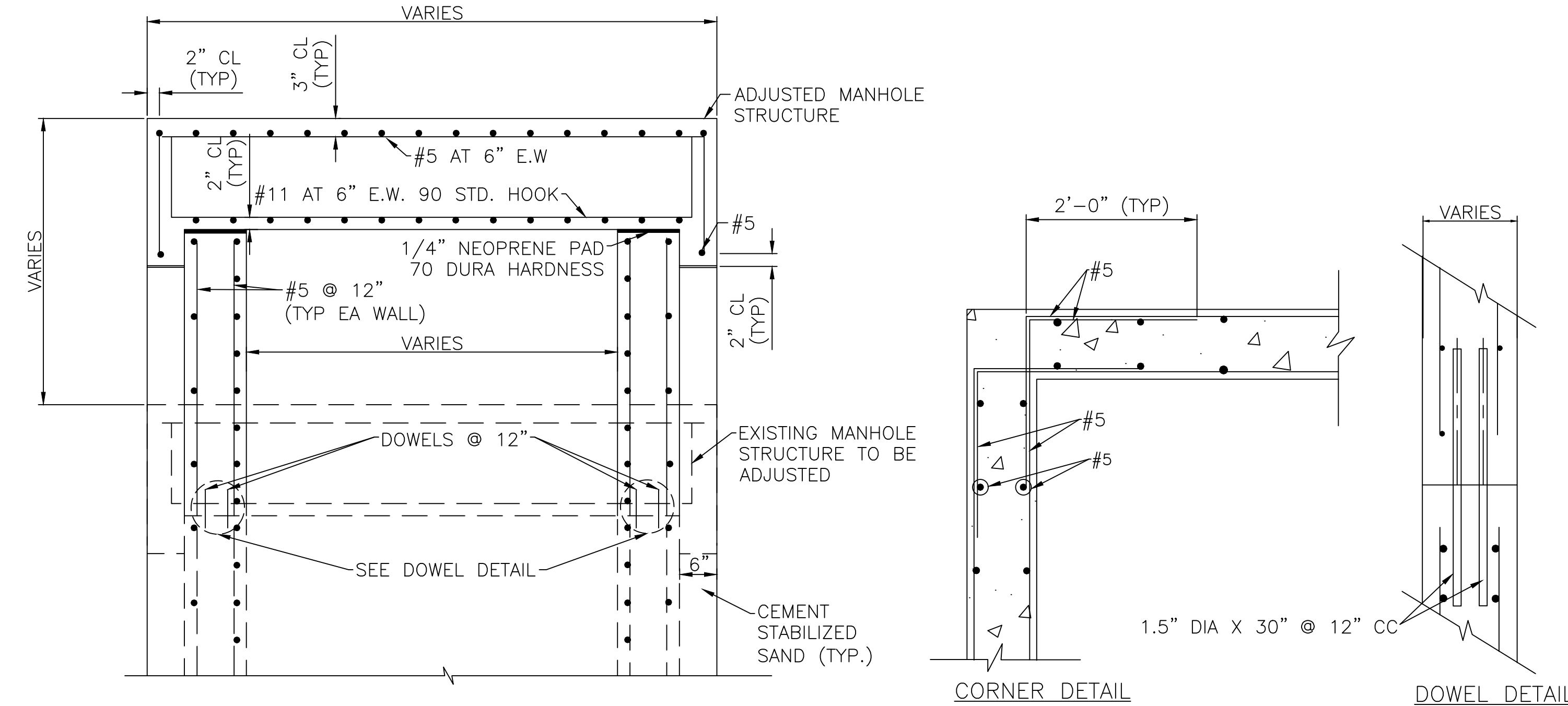
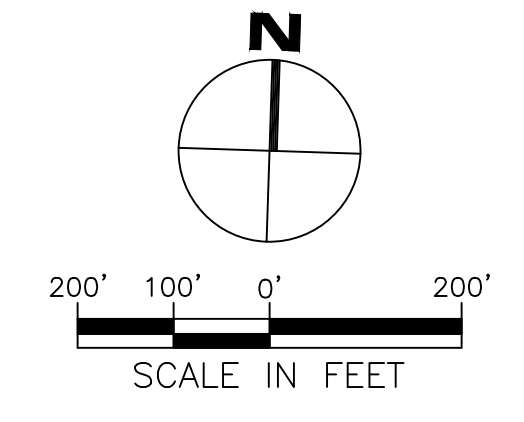
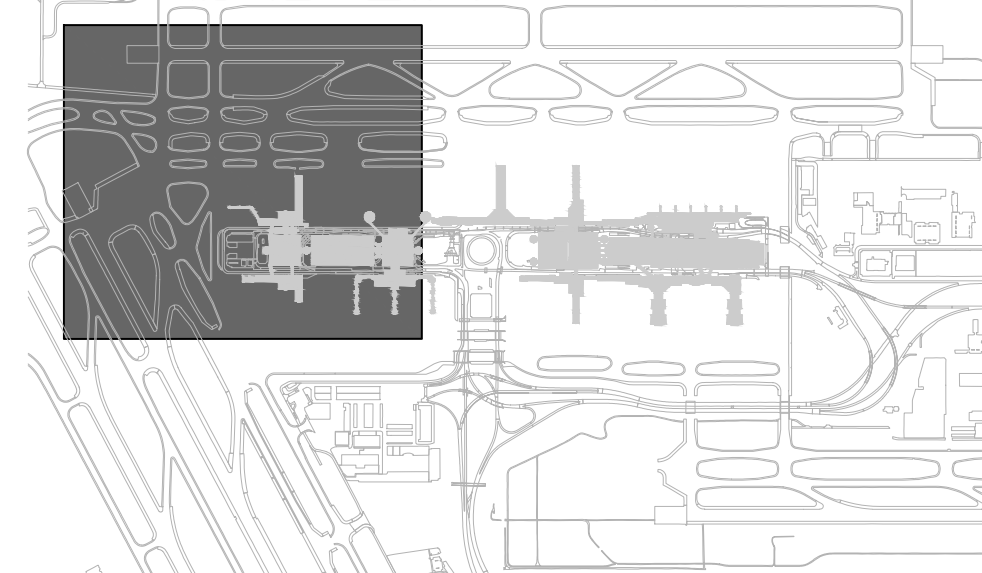
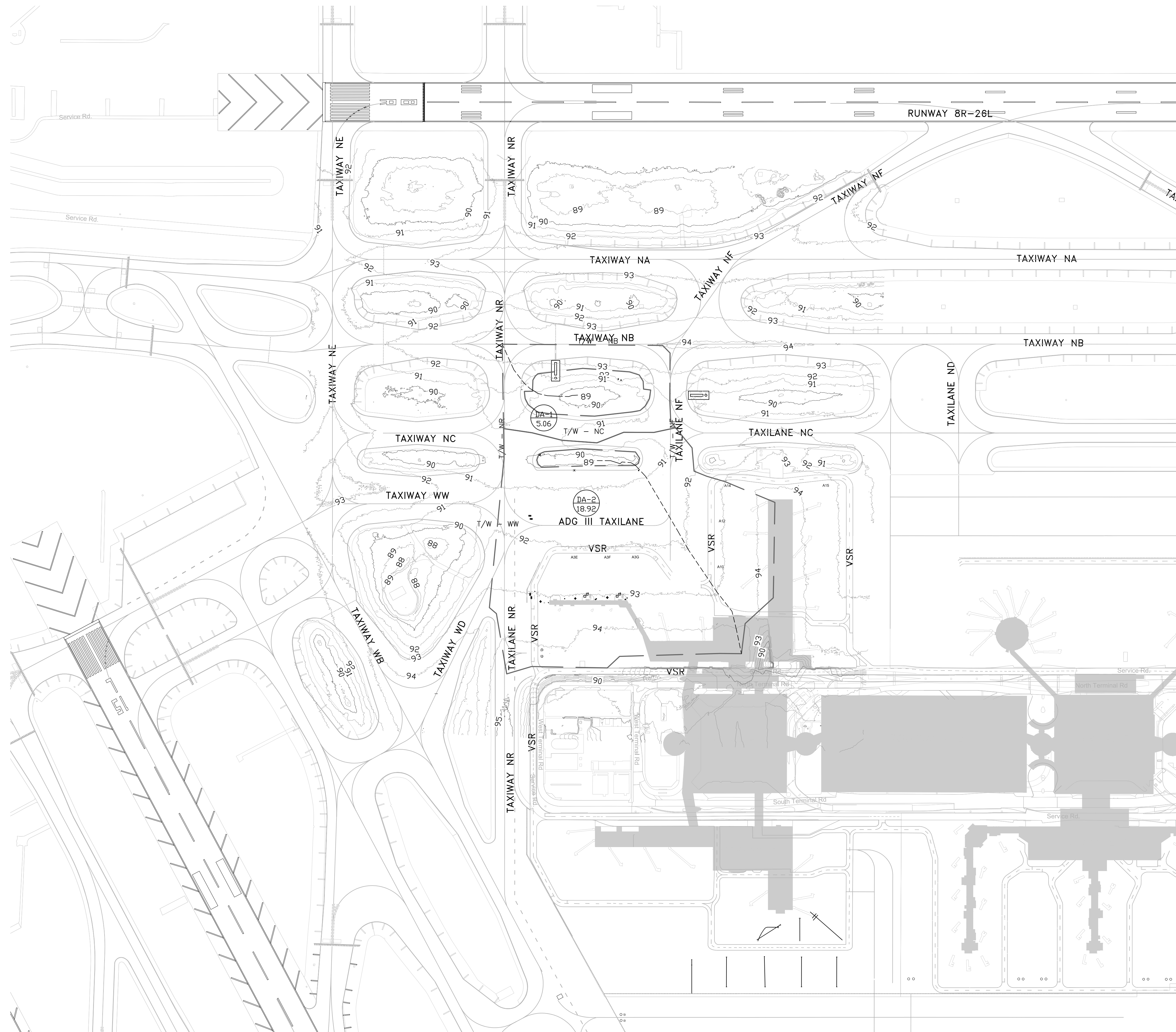


Table with 3 columns: STRUCTURES TO BE ADJUSTED, EXISTING ELEV., and PROPOSED ELEV. Rows include #1-#4 Manholes with elevations ranging from 89.51' to 91.54'.

- MANHOLE ADJUSTMENT DETAIL NOTES: 1. PROPOSED MANHOLE STRUCTURE DIMENSIONS TO MATCH EXISTING STRUCTURE TO BE ADJUSTED. 2. REFER TO SHEET C.J.02 FOR LOCATIONS OF STRUCTURES TO BE ADJUSTED.

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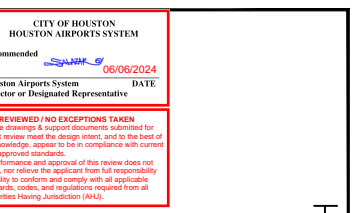
LEGEND

- FLOWPATH
- - - DRAINAGE AREA
- 5FT CONTOUR
- 1FT CONTOUR
- ⊙ ID AREA (sq. ft.)

IEA

13501 Katy Freeway
Suite 3425
Houston, Texas 77079
(832) 494-3800
TBPE Firm Registration No. F-10161

REVISIONS			
NO.	DESCRIPTION	DATE	BY

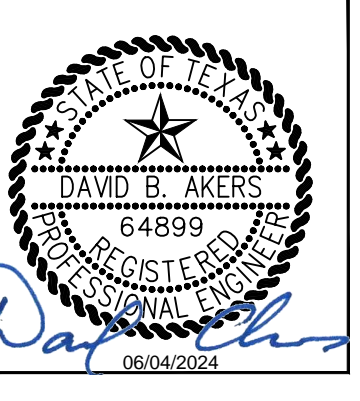


TERMINAL A NORTH IRON PARKING
AT GEORGE BUSH INTERCONTINENTAL AIRPORT

DRAINAGE AREA MAP

T.I.P. No. 23-311-IAH B.S.G. No. 2023-356-IAH

ISSUED FOR PERMIT	
PROJECT MGR:	DA
DESIGNER:	ZJ
DRAWN BY:	ZJ
CHECKED BY:	BS
SCALE:	1" = 40'
DATE:	06/03/2024



DEPARTMENT OF AVIATION	
APPROVED BY:	DATE:

HOUSTON AIRPORT SYSTEMS
AUTHORIZED REPRESENTATIVE

PROJECT NO.	PN 973
C.I.P. NO.	A-000713
H.A.S. NO.	
SHEET NO.	

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HOUSTON AIRPORT SYSTEM
GEORGE BUSH INTERCONTINENTAL AIRPORT HOUSTON, TEXAS



13501 Katy Freeway
Suite 3425
Houston, Texas 77079
(832) 494-3800
TBPE Firm Registration No. F-10161

REVISIONS		
NO.	DESCRIPTION	DATE

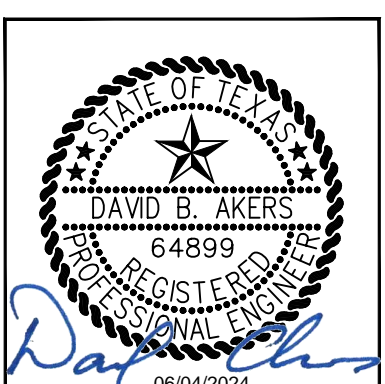


TERMINAL A NORTH IRON PARKING
AT GEORGE BUSH INTERCONTINENTAL AIRPORT

UNDERDRAIN PLAN

T.I.P. No. 23-311-IAH B.S.G. No. 2023-356-IAH

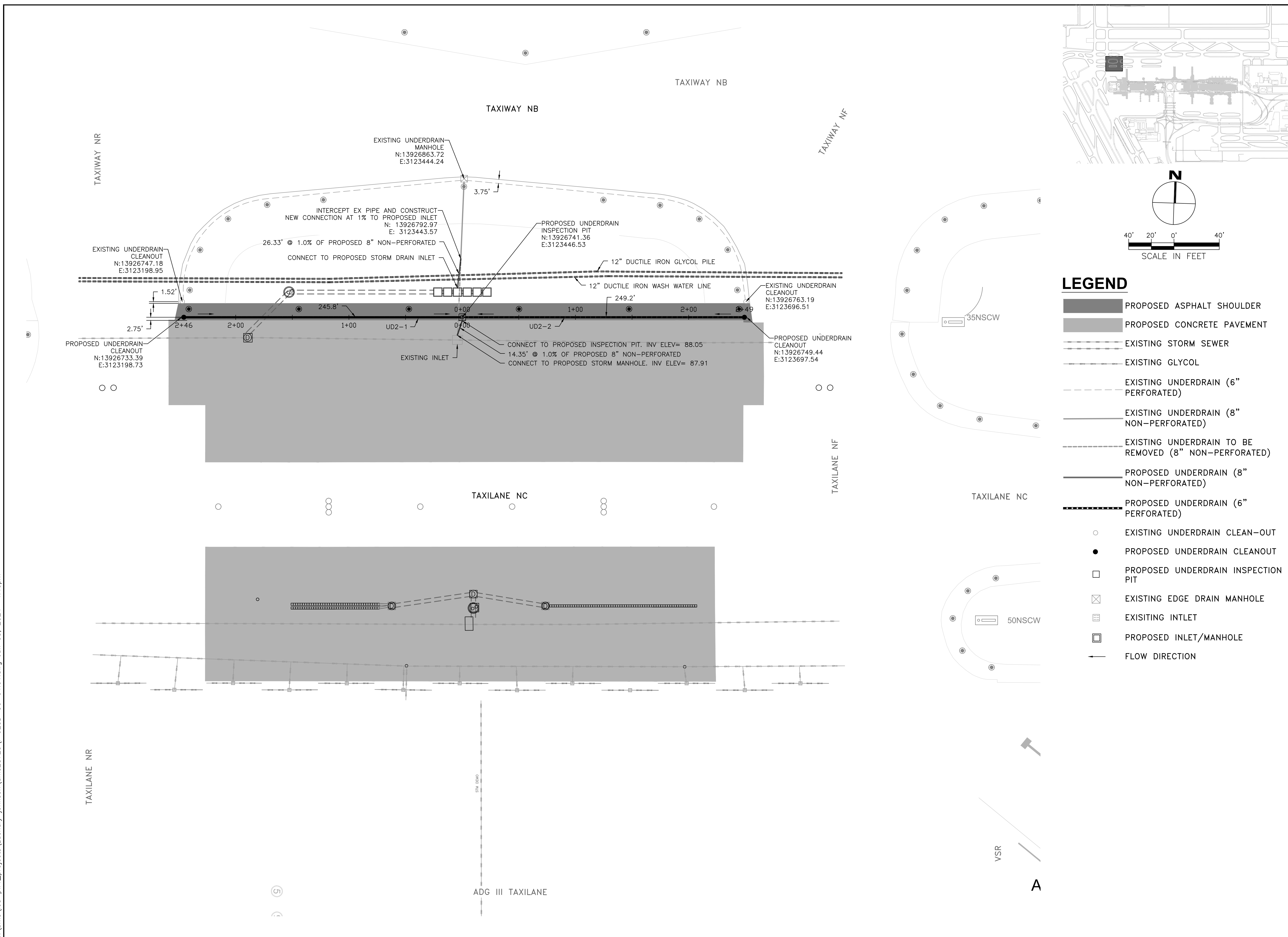
ISSUED FOR PERMIT	
PROJECT MGR:	DA
DESIGNER:	JK
DRAWN BY:	JK
CHECKED BY:	BS
SCALE:	1" = 40'
DATE:	06/03/2024



DEPARTMENT OF AVIATION	
APPROVED BY:	DATE:
HOUSTON AIRPORT SYSTEMS AUTHORIZED REPRESENTATIVE	

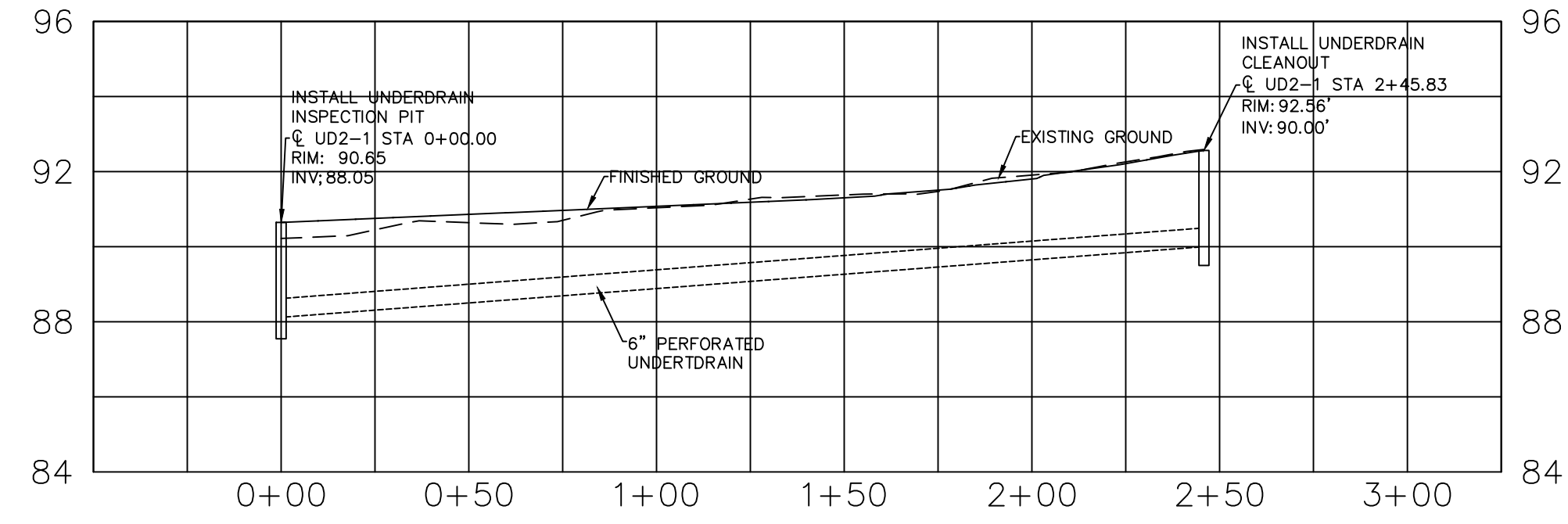
PROJECT NO.	PN 973
C.I.P. NO.	A-000713
H.A.S. NO.	
SHEET NO.	

CU.11

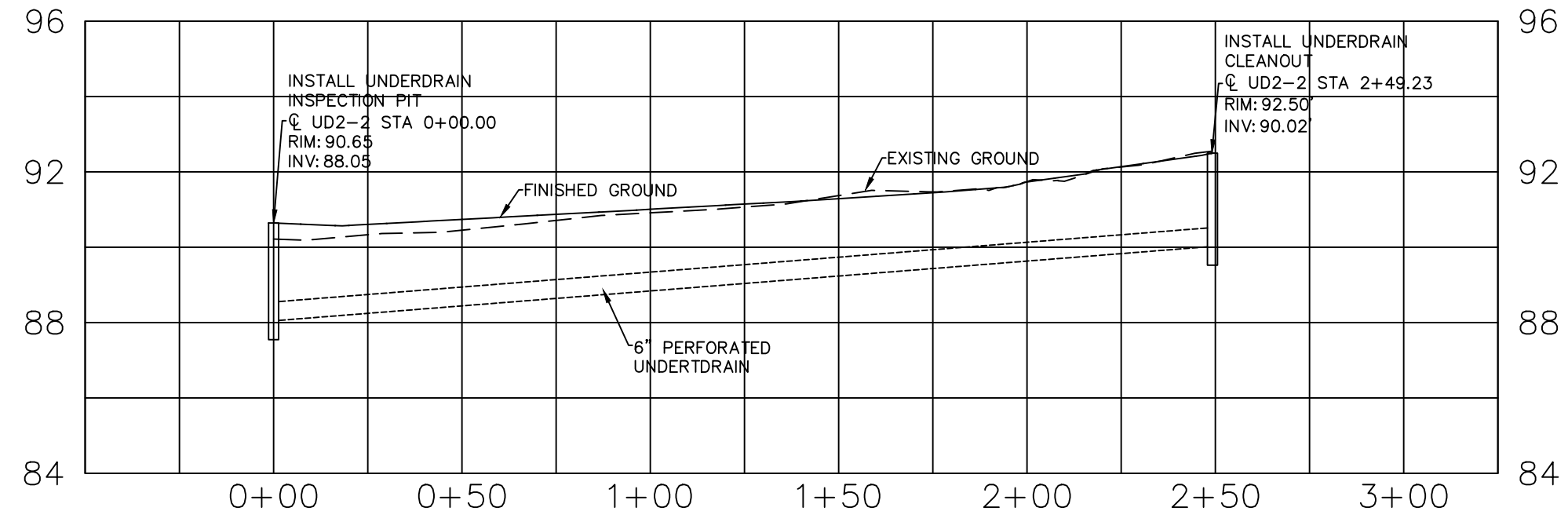


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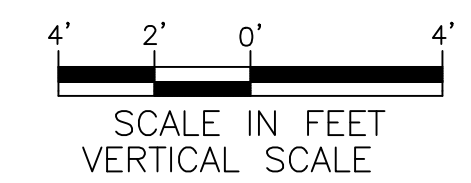
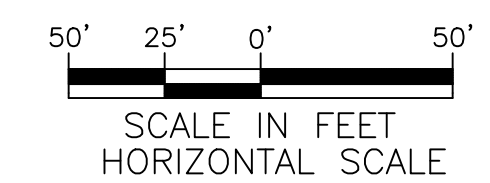
UD2-1 PROFILE



UD2-2 PROFILE



NOTES:
 - INSPECTION PIT FOR UD2-1 AND UD2-2 ARE THE SAME.

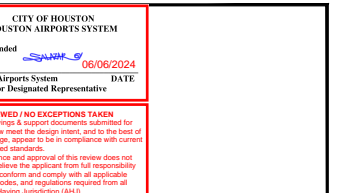


HOUSTON AIRPORT SYSTEM
 GEORGE BUSH INTERCONTINENTAL
 AIRPORT HOUSTON, TEXAS



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 Suite 3425
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 TBPE Firm Registration No.
 F-10161

REVISIONS			
NO.	DESCRIPTION	DATE	BY



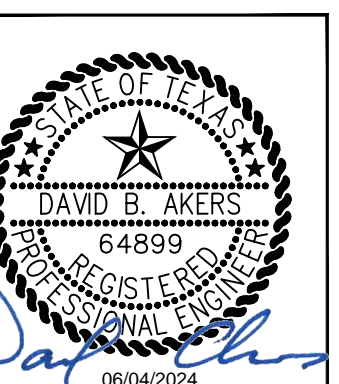
TERMINAL A NORTH IRON PARKING
 AT GEORGE BUSH INTERCONTINENTAL AIRPORT

UNDERDRAIN PROFILE

T.I.P. No. 23-311-IAH B.S.G. No. 2023-356-IAH

ISSUED FOR PERMIT

PROJECT MGR:	DA
DESIGNER:	JK
DRAWN BY:	JK
CHECKED BY:	BS
SCALE:	1" = 40'
DATE:	06/03/2024



DEPARTMENT OF AVIATION	
APPROVED BY:	DATE:
HOUSTON AIRPORT SYSTEMS AUTHORIZED REPRESENTATIVE	

PROJECT NO.	PN 973
C.I.P. NO.	A-000713
H.A.S. NO.	
SHEET NO.	

CU.12



HOUSTON AIRPORT SYSTEM

GEORGE BUSH INTERCONTINENTAL AIRPORT

HOUSTON, TEXAS



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Suite 3425
Houston, Texas 77079
(832) 494-3800
TBPE Firm Registration No. F-10161

REVISIONS			
NO.	DESCRIPTION	DATE	BY
ADDENDUM 1	XX/XX/XX	XXX	

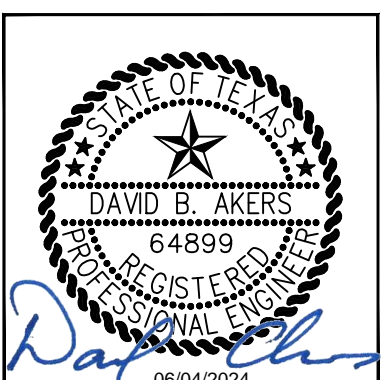


TERMINAL A NORTH RON PARKING
AT GEORGE BUSH INTERCONTINENTAL AIRPORT

UNDERDRAIN DETAILS

T.I.P. No. 23-311-IAH B.S.G. No. 2023-356-IAH

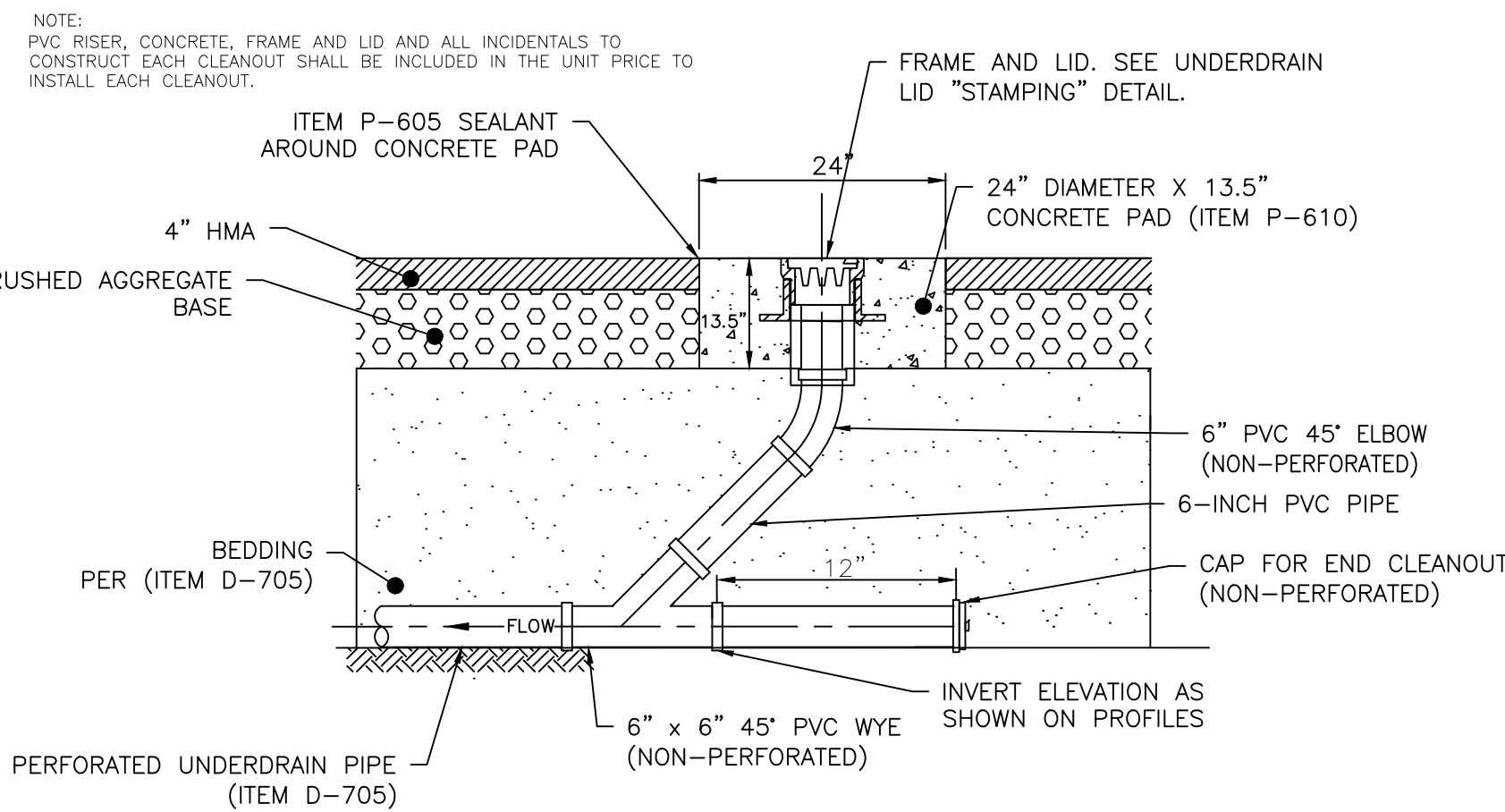
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DESIGNER:	JK
DRAWN BY:	JK
CHECKED BY:	BS
SCALE:	NTS
DATE:	06/03/2024



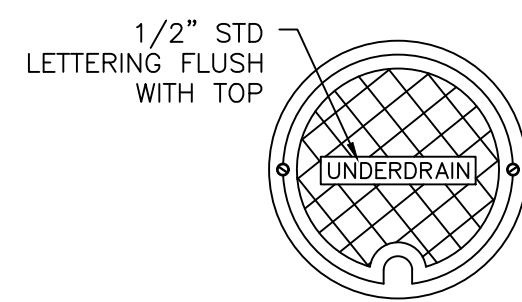
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APPROVED BY:	DATE:
HOUSTON AIRPORT SYSTEMS AUTHORIZED REPRESENTATIVE	

PROJECT NO.	PN 973
C.I.P. NO.	A-000713
H.A.S. NO.	
SHEET NO.	

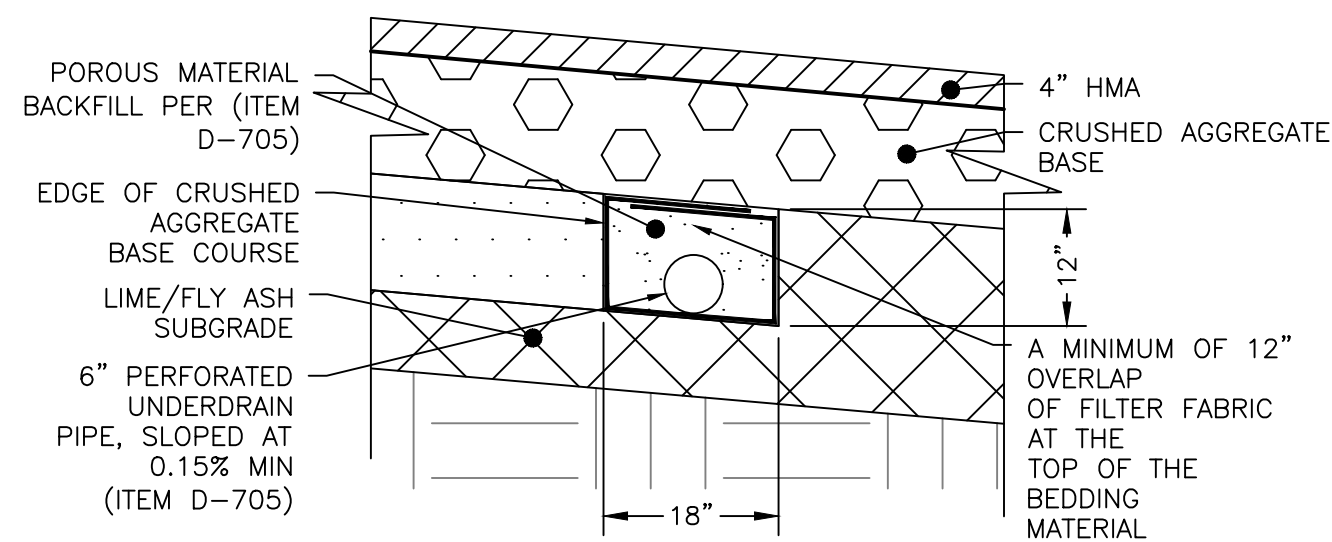
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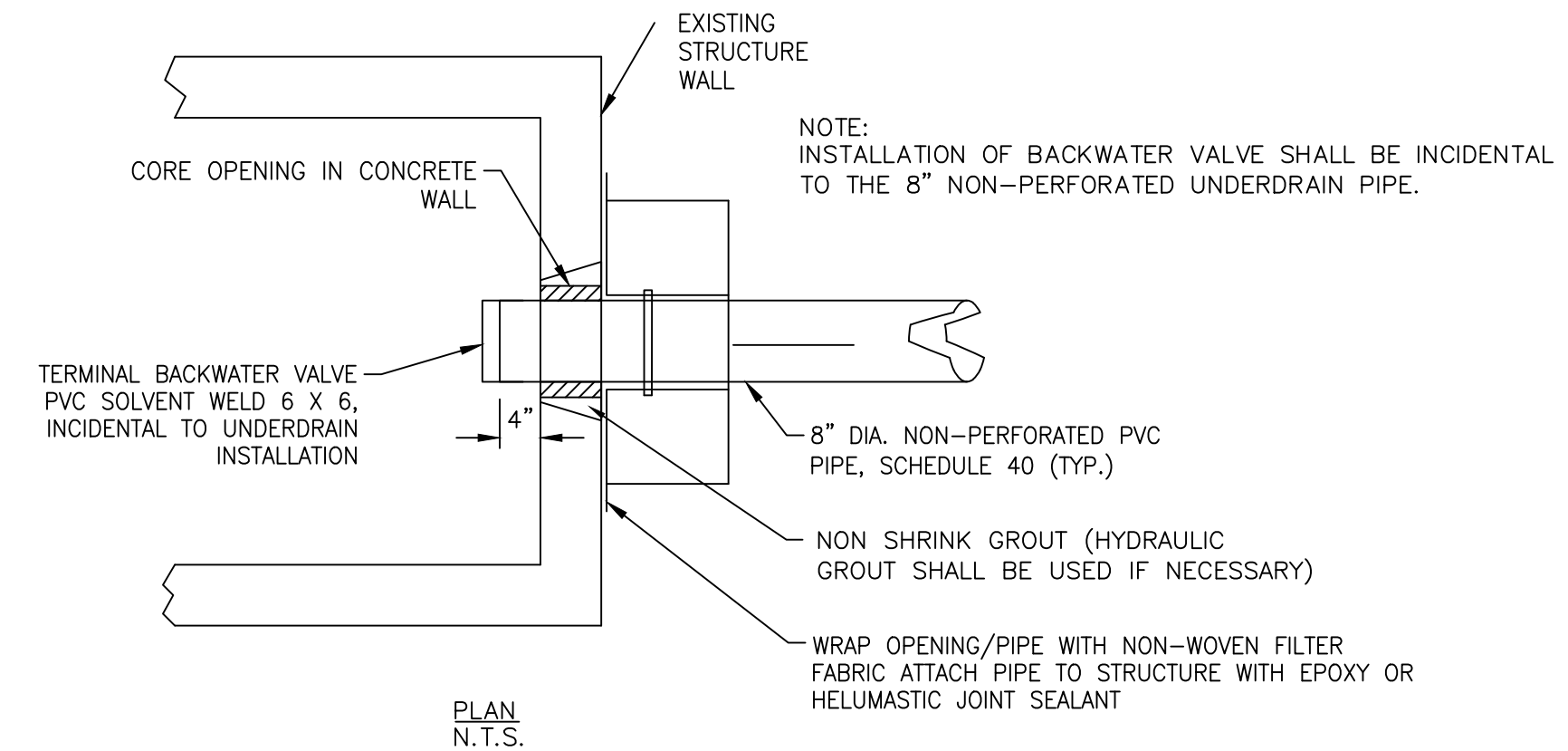
1 TYPICAL CLEANOUT DETAIL
SCALE: NTS



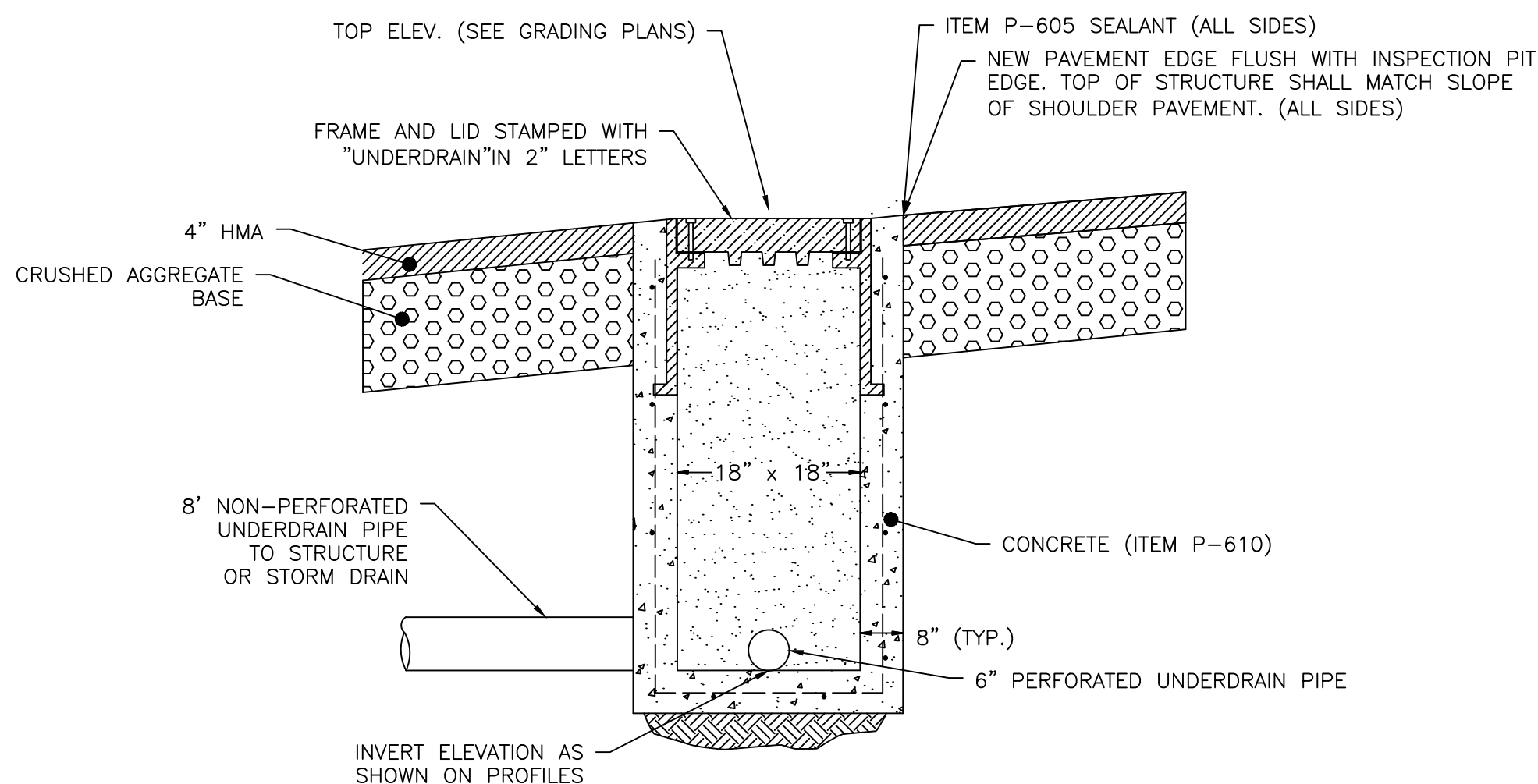
2 UNDERDRAIN CLEANOUT LID STAMPING DETAIL
SCALE: NTS



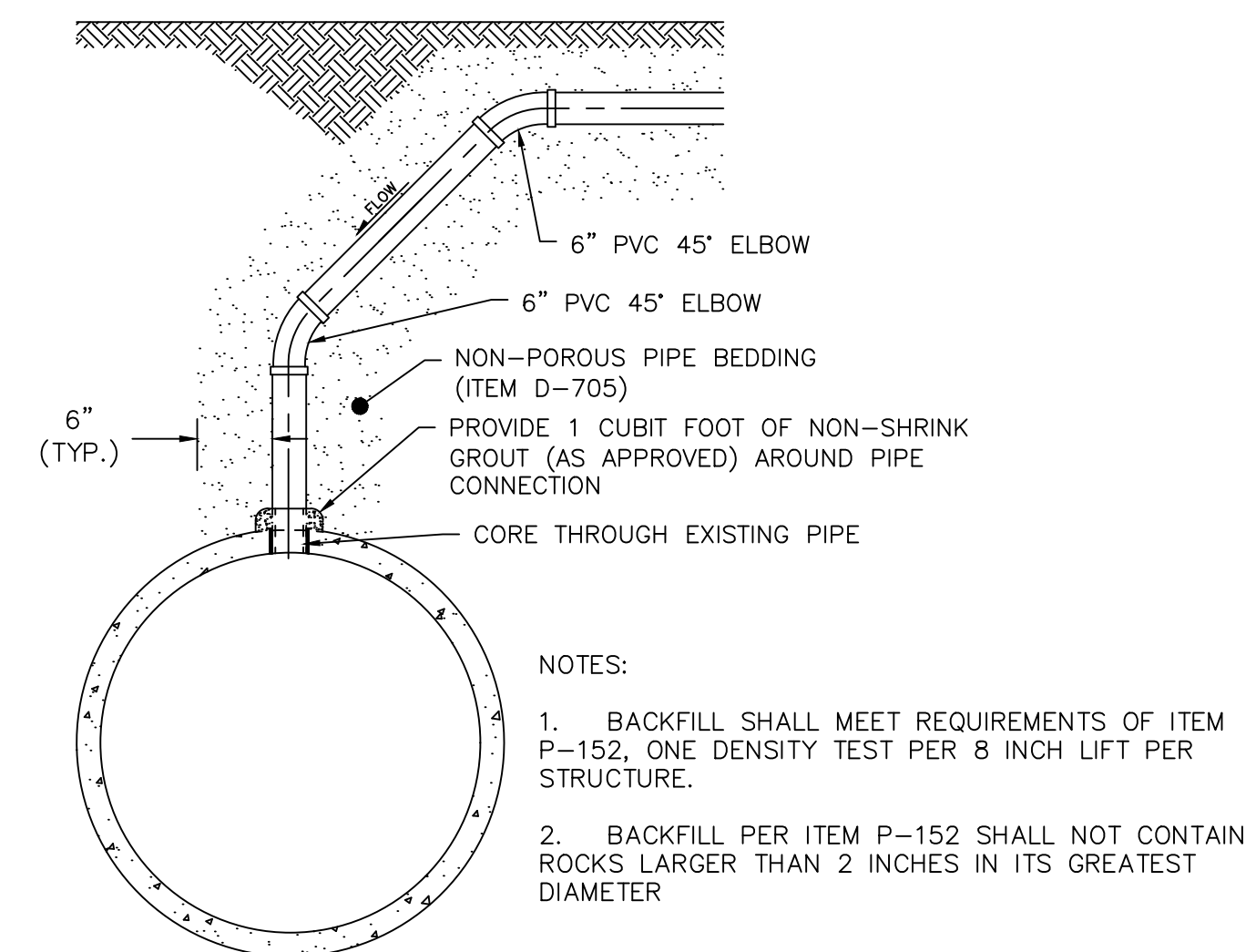
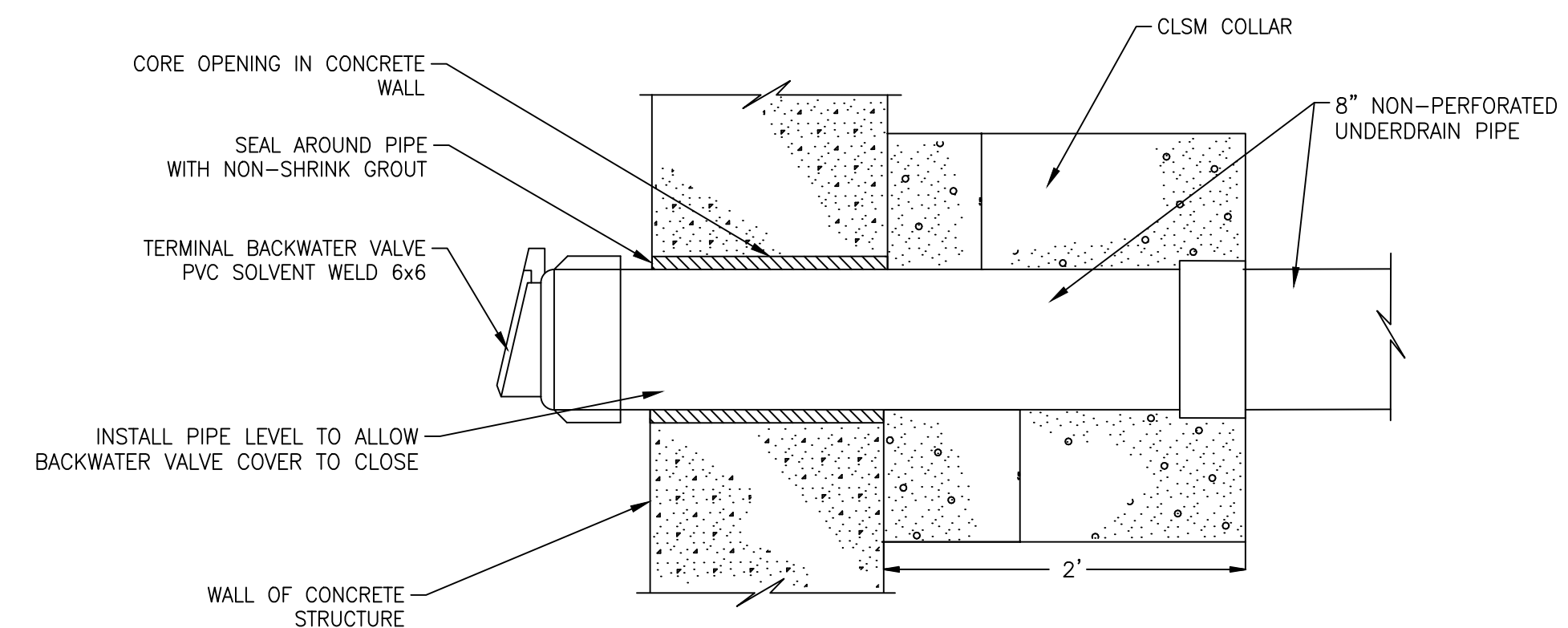
4 PAVEMENT UNDERDRAIN DETAIL
SCALE: NTS



6 UNDERDRAIN CONNECTION TO STRUCTURE - TYPICAL DETAIL
SCALE: NTS



3 UNDERDRAIN INSPECTION PIT DETAIL
SCALE: NTS

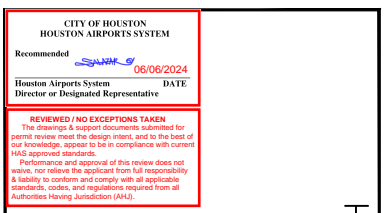


5 UNDERDRAIN TIE-IN WITH STORM DRAIN
SCALE: NTS

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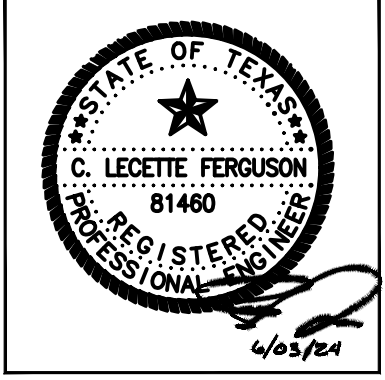


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NO.	DESCRIPTION	DATE



AIRFIELD ELECTRICAL SYMBOLS LEGEND
 B.S.G. No. 2023-356-IAH
 T.I.P. No. 23-311-IAH
 TERMINAL A NORTH RON PARKING AT GEORGE BUSH INTERCONTINENTAL AIRPORT

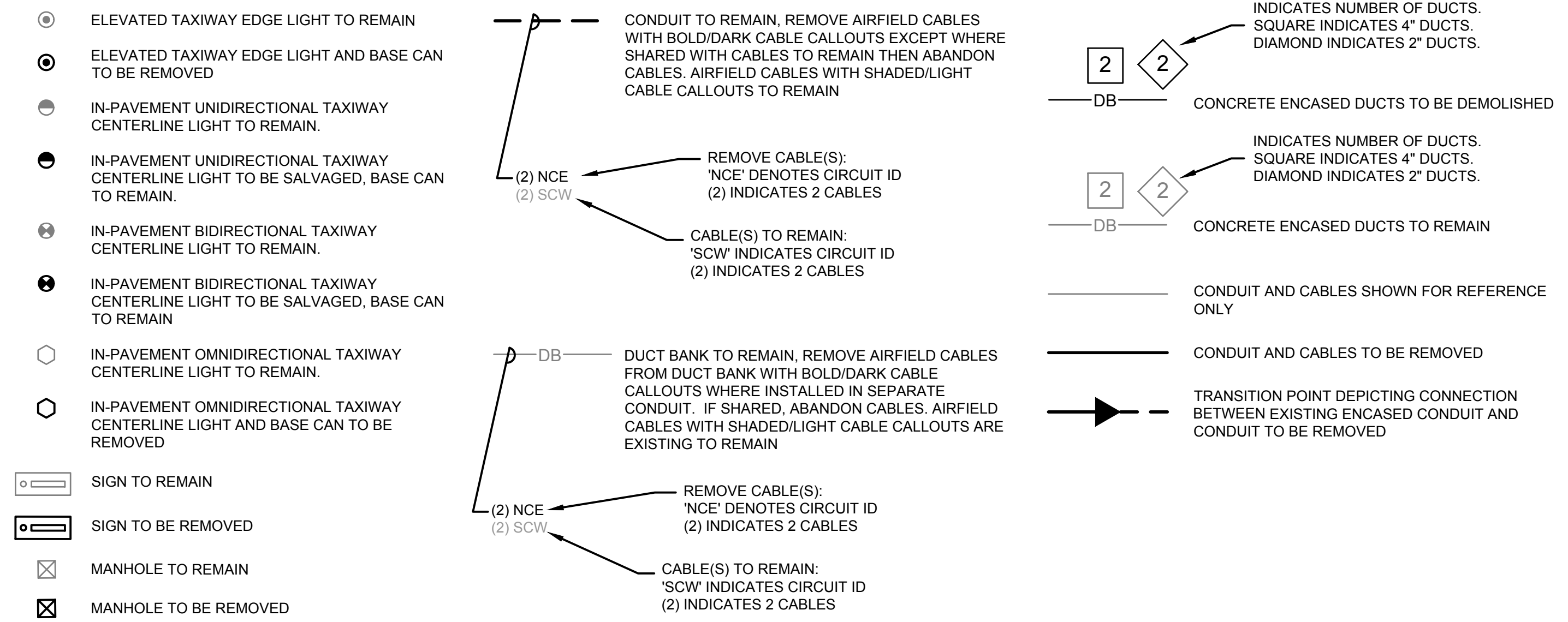
ISSUED FOR PERMIT	
PROJECT MGR:	CW
DESIGNER:	JGW
DRAWN BY:	JGW
CHECKED BY:	CLF
SCALE:	AS SHOWN
DATE:	6/03/2024



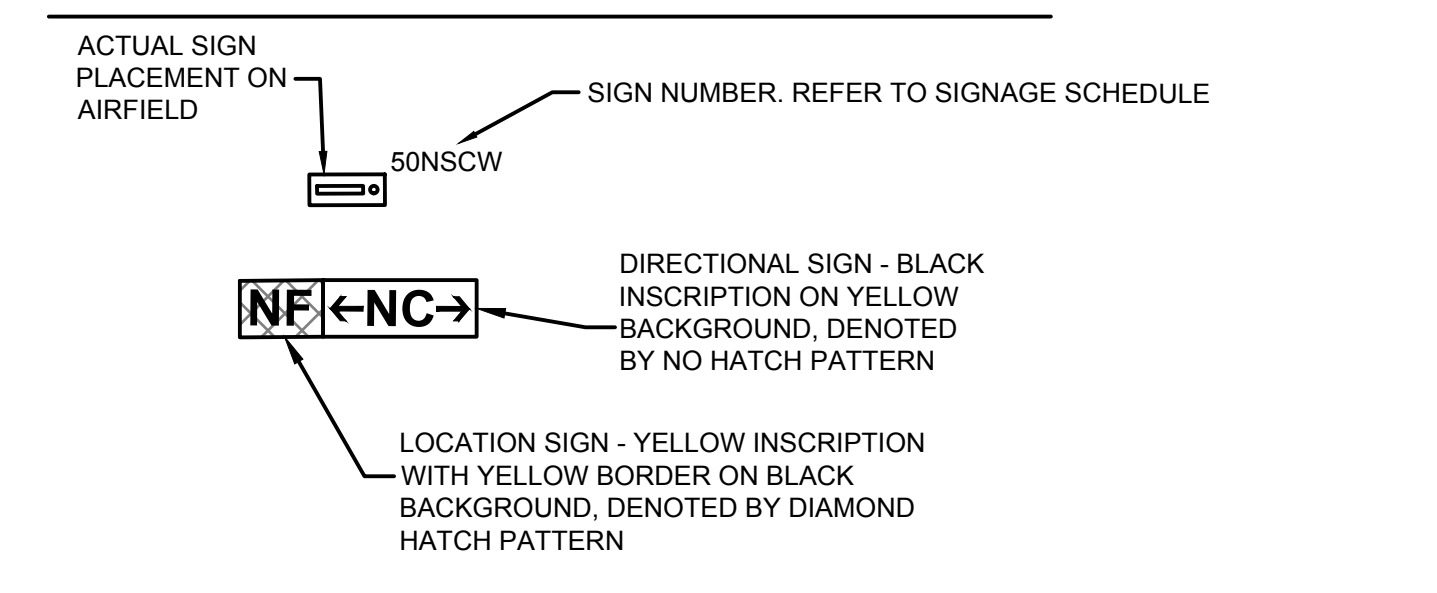
DEPARTMENT OF AVIATION	
APPROVED BY:	DATE:
HOUSTON AIRPORT SYSTEMS AUTHORIZED REPRESENTATIVE	

PROJECT NO. PN 973
 C.I.P. NO. _____
 H.A.S. NO. _____
 SHEET NO. _____

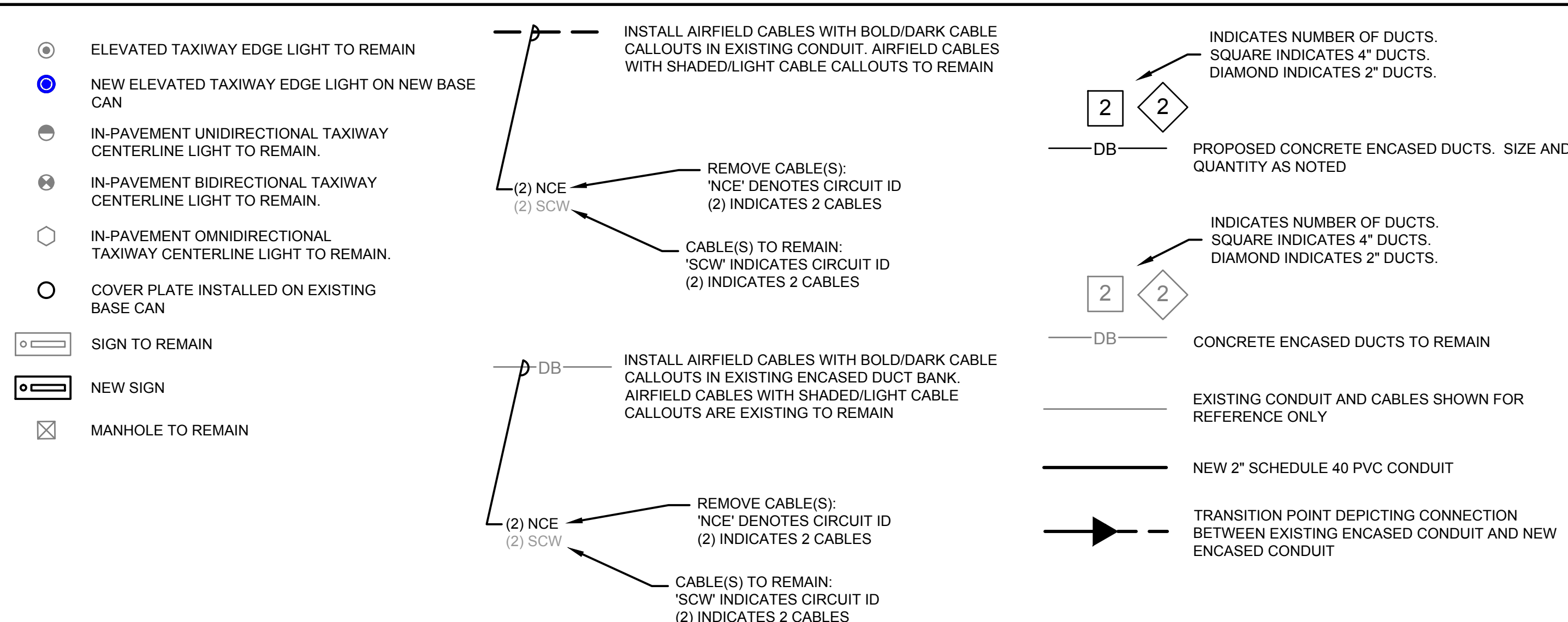
AIRFIELD LIGHTING DEMOLITION LEGEND



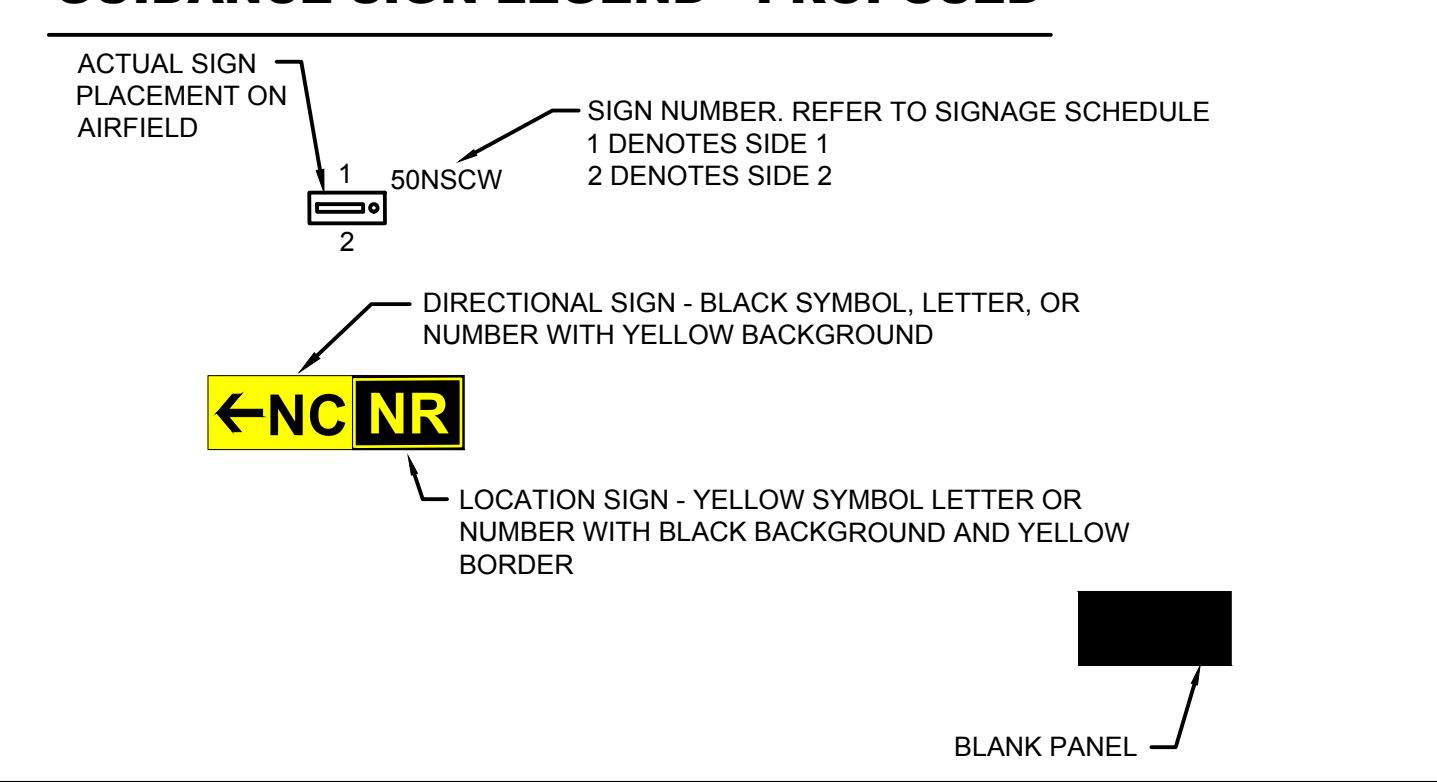
GUIDANCE SIGN LEGEND - EXISTING



AIRFIELD LIGHTING NEW CONSTRUCTION LEGEND



GUIDANCE SIGN LEGEND - PROPOSED

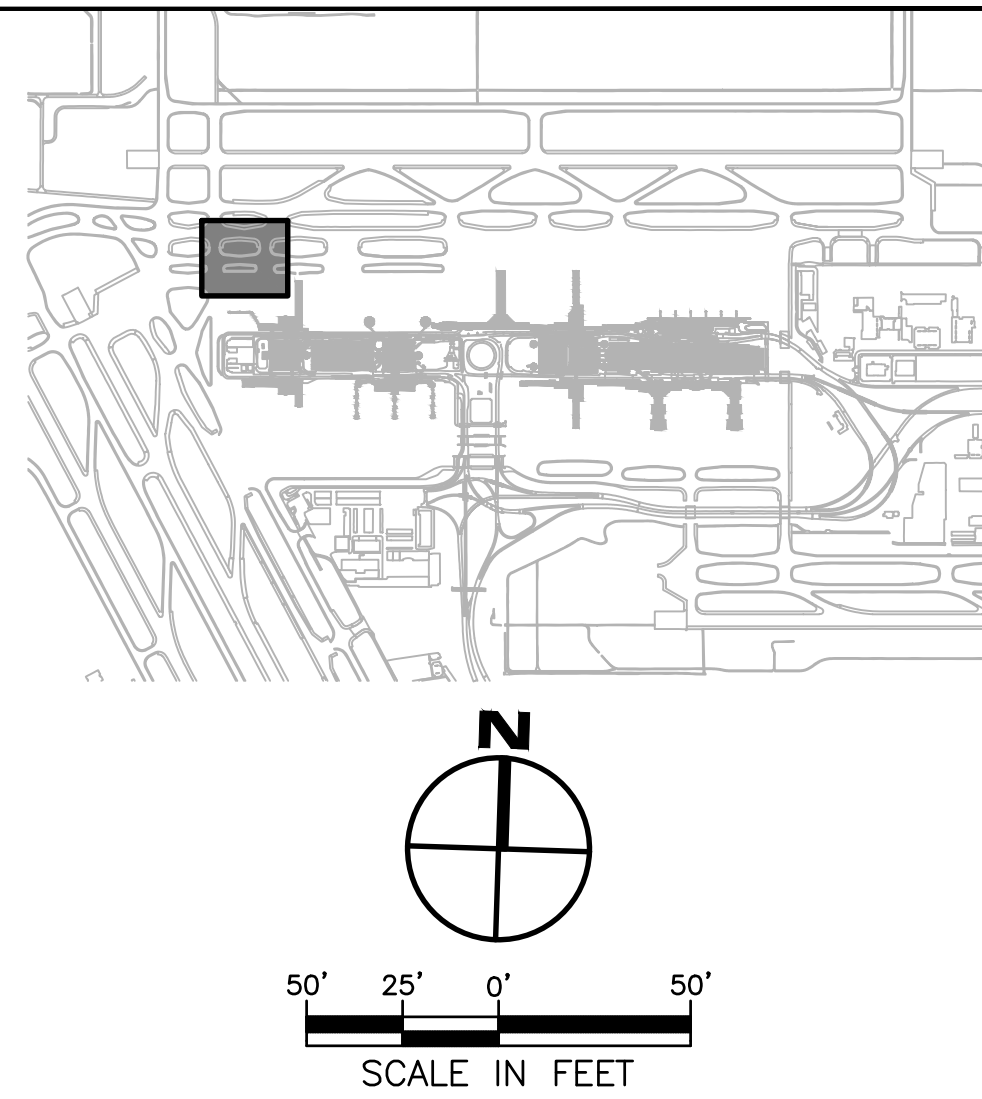
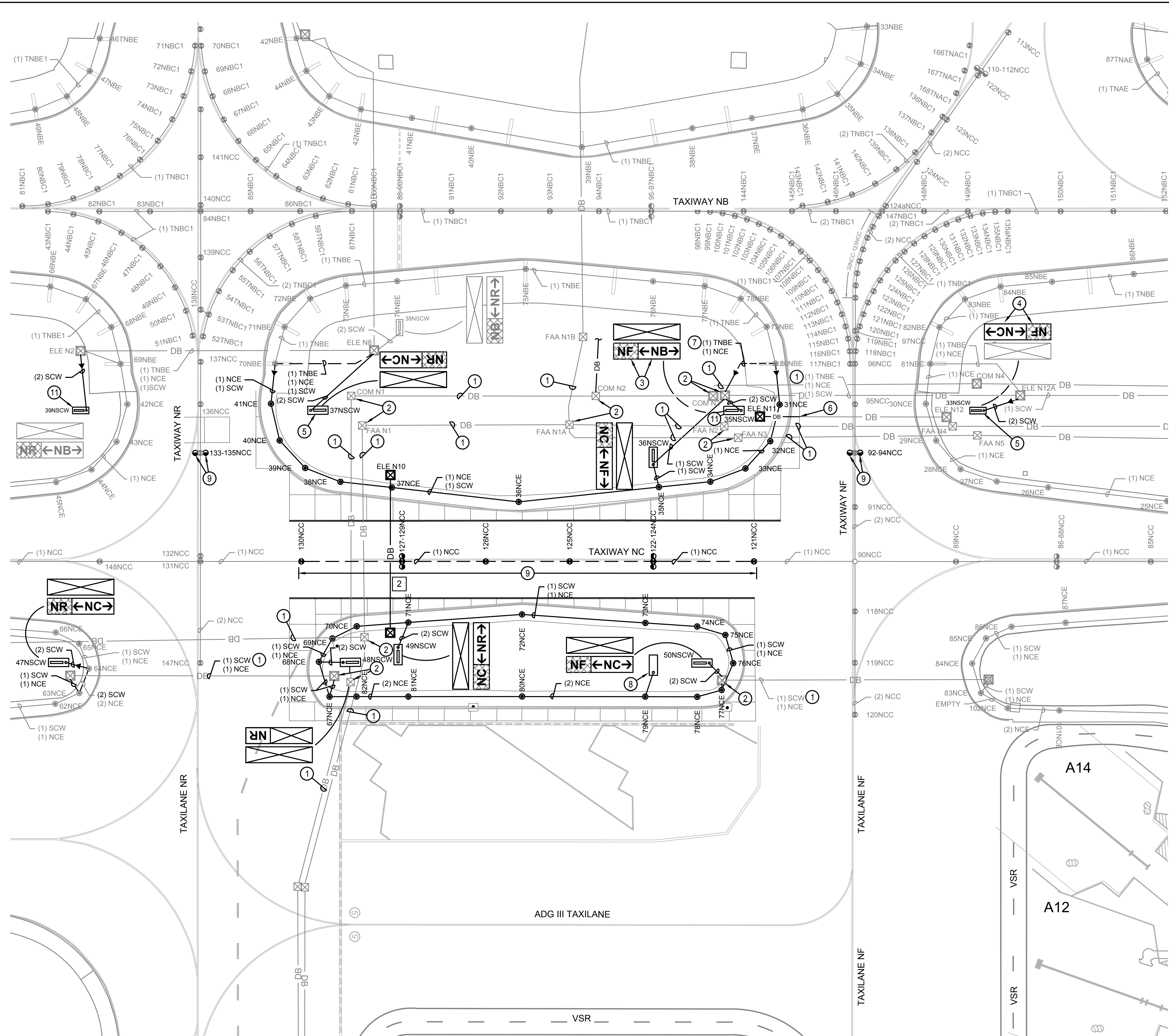


GENERAL NOTES:

- PLEASE REFER TO FAA ADVISORY CIRCULAR 150/5345-53D - APPENDIX 1. IT CONTAINS A COMPLETE LIST OF AIRFIELD LIGHTING EQUIPMENT AND MANUFACTURERS THAT ARE APPROVED BY THE FAA FOR USE. THE PROJECT DOCUMENTS WILL NOT ALLOW ANY LIGHT FIXTURES OR SIGNS TO BE INSTALLED THAT ARE NOT ON THIS LIST.

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GENERAL NOTES

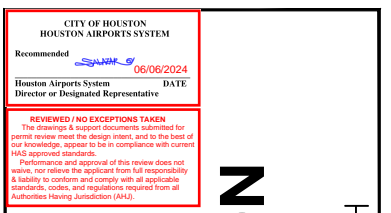
1. ALL ITEMS SHOWN IN HEAVY LINEWEIGHT ARE TO BE DEMOLISHED OR MODIFIED, ALL ITEMS SHADED ARE EXISTING TO REMAIN. REFER TO SHEET E00.01 FOR ELECTRICAL SYMBOLS LEGEND.
2. THE CONTRACTOR SHALL PROVIDE LOCK-OUT PROCEDURES PER NEC TO INSURE SAFETY OF PERSONNEL. REFER TO SECTION X-104.
3. REFER TO SHEET EP01.01 FOR PROPOSED AIRFIELD ELECTRICAL PLANS.
4. EXISTING AIRFIELD CIRCUITS AND DUCT CROSSINGS HAVE BEEN TAKEN FROM VISUAL FIELD OBSERVATIONS AND AS-BUILT DOCUMENTATION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL EXISTING CIRCUIT ROUTES PRIOR TO WORK.

KEYED NOTES

- 1 EXISTING DUCT BANK SECTION TO BE PROTECTED IN PLACE. REFER TO CIVIL PLANS FOR PROPOSED PAVEMENT GEOMETRY.
- 2 EXISTING MANHOLE TO BE PROTECTED IN PLACE.
- 3 SIGN LEGEND PANEL TO BE SALVAGED AND REUSED. REFER TO PROPOSED PLANS FOR NEW LEGEND LOCATION.
- 4 SIGN LEGEND PANEL TO BE REMOVED.
- 5 EXISTING GUIDANCE SIGN TO BE SALVAGED AND TURNED OVER TO THE OWNER FOR SPARE PARTS.
- 6 REMOVE SECTION OF EXISTING DUCT BANK THAT IS IN PROPOSED PAVING LIMITS. REMAINDER OF DUCT BANK TO BE ABANDONED.
- 7 CONDUIT SEGMENT TO BE ABANDONED.
- 8 EXISTING GUIDANCE SIGN FOUNDATION TO BE REMOVED.
- 9 REMOVE AND SALVAGE EXISTING LIGHT FIXTURE. BASE CAN TO REMAIN. BLANK COVER TO BE INSTALLED ON EXISTING BASE CAN. REFER TO EP01.01.
- 10 EXISTING DUCTS TO BE REMOVED OR ABANDONED. PAYMENT IS INCIDENTAL TO THE PAVEMENT DEMOLITION.
- 11 SIGN TO BE SALVAGED AND RE-INSTALLED ON NEW SIGN PAD. REFER TO PROPOSED PLANS FOR LOCATION.



REVISIONS		
NO.	DESCRIPTION	DATE



TERMINAL A NORTH RON PARKING
AT GEORGE BUSH INTERCONTINENTAL AIRPORT

AIRFIELD LIGHTING DEMOLITION PLAN

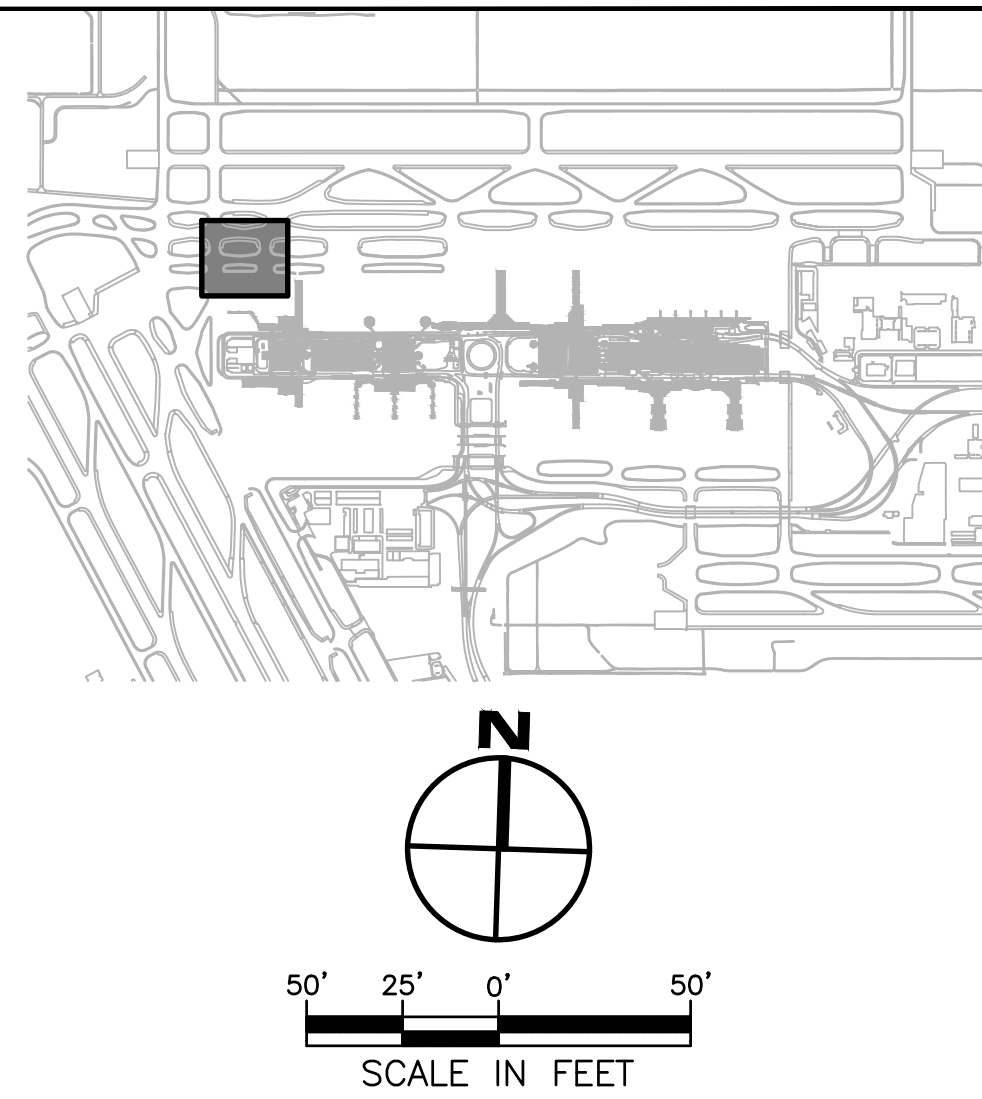
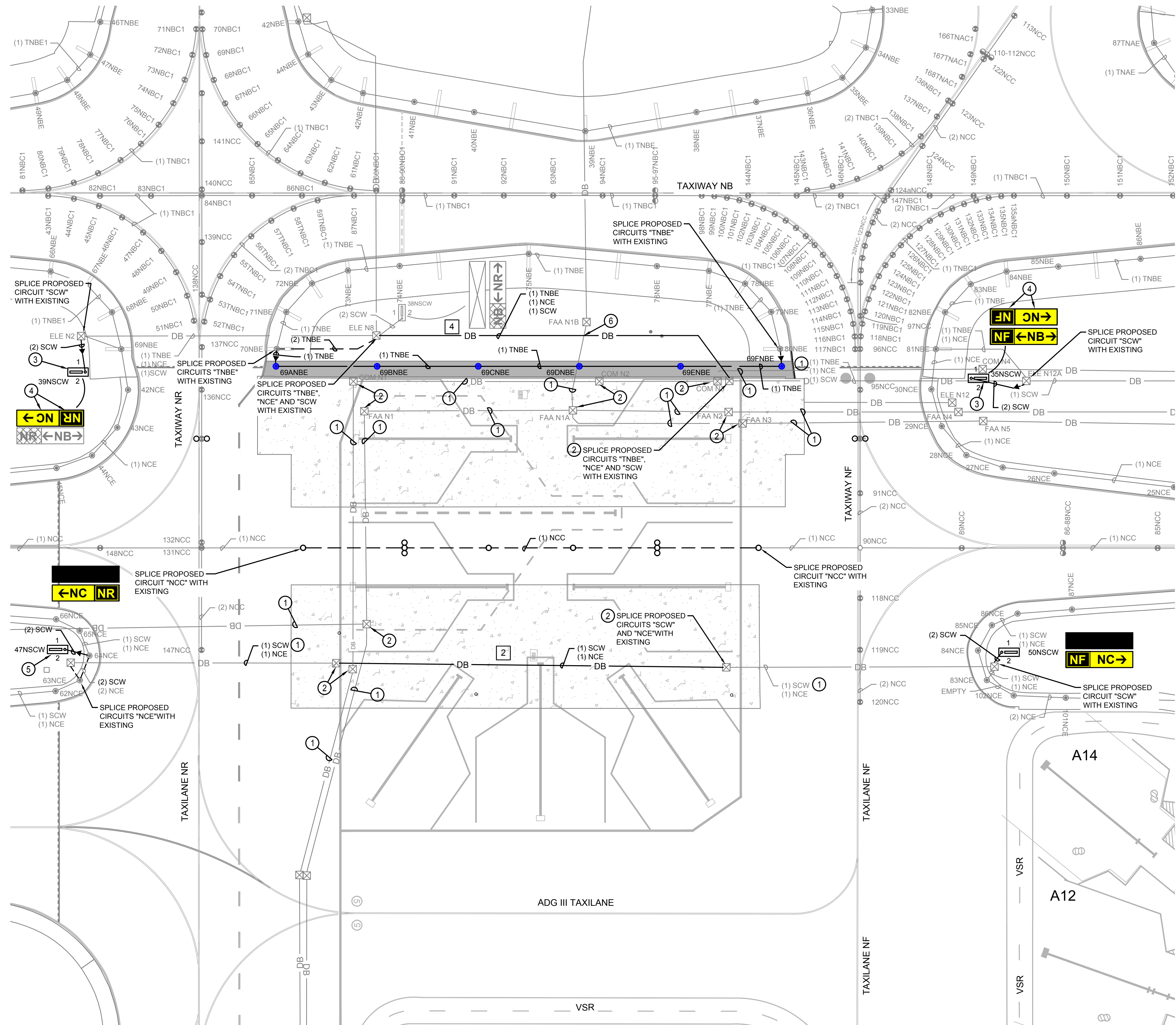
T.I.P. No. 23-311-1AH B.S.G. No. 2023-356-1AH

ISSUED FOR PERMIT	
PROJECT MGR:	CW
DESIGNER:	JGW
DRAWN BY:	JGW
CHECKED BY:	CLF
SCALE:	AS SHOWN
DATE:	6/03/2024

DEPARTMENT OF AVIATION	
APPROVED BY:	DATE:
HOUSTON AIRPORT SYSTEMS AUTHORIZED REPRESENTATIVE	

PROJECT NO.	PN 973
C.I.P. NO.	
H.A.S. NO.	
SHEET NO.	

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GENERAL NOTES

1. ALL ITEMS SHOWN IN HEAVY LINEWEIGHT ARE TO BE NEW OR MODIFIED. ALL ITEMS SHADED ARE EXISTING TO REMAIN. REFER TO SHEET E00.01 FOR ELECTRICAL SYMBOLS LEGEND.
2. THE CONTRACTOR SHALL PROVIDE LOCK-OUT PROCEDURES PER NEC TO INSURE SAFETY OF PERSONNEL. REFER TO SECTION X-104.
3. REFER TO SHEET EP01.01 FOR DEMO AIRFIELD ELECTRICAL PLAN.
4. EXISTING AIRFIELD CIRCUITS AND DUCT CROSSINGS HAVE BEEN TAKEN FROM VISUAL FIELD OBSERVATIONS AND AS-BUILT DOCUMENTATION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL EXISTING CIRCUIT ROUTES PRIOR TO WORK.

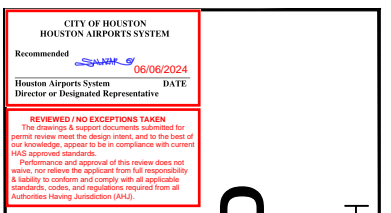
KEYED NOTES

- ① EXISTING DUCT BANK SECTION TO BE PROTECTED DURING PAVEMENT CONSTRUCTION.
- ② EXISTING MANHOLE TO BE PROTECTED AND ELEVATED TO NEW GRADE WITH AIRCRAFT RATED TOP SECTION.
- ③ INSTALL SALVAGED SIGN ON NEW SIGN FOUNDATION.
- ④ NEW SIGN LEGEND ON EXISTING SIGN.
- ⑤ SPLICE PROPOSED CIRCUIT "SCW" WITH EXISTING.
- ⑥ CONTRACTOR REQUIRED TO HAND DIG IN THIS AREA. MAINTAIN MINIMUM CLEARANCE OF 12" TO EXISTING UTILITIES.



REVISIONS

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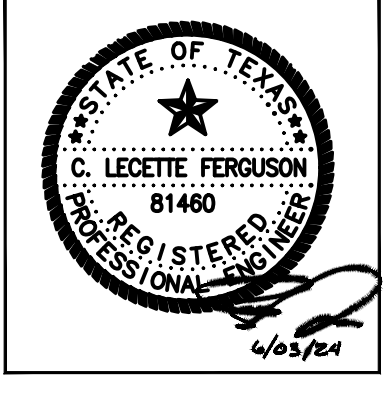
AIRFIELD LIGHTING PROPOSED PLAN

T.I.P. No. 23-311-IAH B.S.G. No. 2023-356-IAH

TERMINAL A NORTH RON PARKING
 AT GEORGE BUSH INTERCONTINENTAL AIRPORT

ISSUED FOR PERMIT

PROJECT MGR:	CW
DESIGNER:	JGW
DRAWN BY:	JGW
CHECKED BY:	CLF
SCALE:	AS SHOWN
DATE:	6/03/2024



DEPARTMENT OF AVIATION

APPROVED BY:	DATE:

HOUSTON AIRPORT SYSTEMS
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PROJECT NO.	PN 973
C.I.P. NO.	
H.A.S. NO.	
SHEET NO.	



HOUSTON AIRPORT SYSTEM

GEORGE BUSH INTERCONTINENTAL AIRPORT HOUSTON, TEXAS



REVISIONS

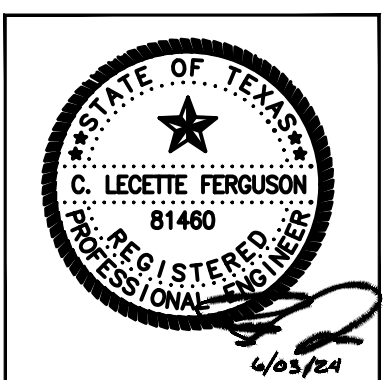
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TERMINAL A NORTH RON PARKING AT GEORGE BUSH INTERCONTINENTAL AIRPORT AIRFIELD LIGHTING AND SIGNAGE SCHEDULES T.I.P. No. 23-311-IAH B.S.G. No. 2023-356-IAH

ISSUED FOR PERMIT

PROJECT MGR: CW DESIGNER: JGW DRAWN BY: JGW CHECKED BY: CLF SCALE: AS SHOWN DATE: 6/03/2024



DEPARTMENT OF AVIATION APPROVED BY: DATE: HOUSTON AIRPORT SYSTEMS AUTHORIZED REPRESENTATIVE

PROJECT NO. PN 973 C.I.P. NO. H.A.S. NO. SHEET NO.

EP05.01

Table with columns: PROPOSED FIELD TAGGING, PROPOSED SIGN LEGEND (SIDE 1, SIDE 2), FIELD CKT, SIGN DATA (MODULES, SIZE, STYLE, CLASS), ISOL XFMR (QTY, AND SIZE), LAMP DATA PER MODULE (QUAN, TYPE, WATT), SHEET NUMBER, NORTHING, EASTING, EDGE MARKING OFFSET, NOTES

GENERAL NOTES - SIGNAGE

- 1. REFER TO SIGN DETAILS ON EP06.03. ALL SIGN BASE CANS ARE LOCATED ON INBOARD SIDE OF THE SIGN (SIDE NEAREST TO EDGE MARKING) UNLESS OTHERWISE NOTED.
2. NORTHINGS & EASTINGS REFER TO THE SIDE OF THE SIGN NEAREST TO EDGE OF PAVEMENT.

KEYED NOTES - SIGNAGE

- 1 FURNISH AND INSTALL NEW SIGN ON NEW FOUNDATION FOLLOWING PLANS, DETAILS, AND SPECIFICATIONS. COORDINATE FIELD TAG ID WITH OPERATIONS.
2 EXISTING SIGN INSTALLED ON NEW FOUNDATION. NEW SIGN PANELS AS NOTED ON EP01.01.

* NEW SIGN ISOLATION TRANSFORMER SIZE WILL VARY PER MANUFACTURER. SIZES LISTED ARE FOR SIGN MANUFACTURER - ADB. IF ALTERNATE MANUFACTURER IS USED, PROVIDE ISOLATION TRANSFORMER SIZE PER MANUFACTURER RECOMMENDATIONS. THE CONTRACTOR SHALL BARE ALL THE COSTS ASSOCIATED WITH ANY EQUIPMENT UPGRADES NECESSARY DUE TO THE CONTRACTOR'S PROPOSED EQUIPMENT POWER REQUIREMENTS EXCEEDING THE CONTRACT DESIGN LOADS.

TAXIWAY EDGE LIGHT FIXTURES (NBE) table with columns: FIXTURE NUMBER, FAA TYPE, FAA BASE, NORTHING, EASTING, REGULATOR ID, REGULATOR CIRCUIT NAME, KEYNOTES

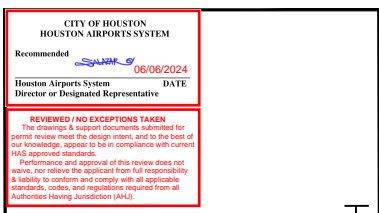
LIGHT FIXTURE ELECTRICAL INFORMATION table with columns: FIXTURE TYPE, FAA TYPE, LAMP WATTAGE, ISOLATION TRANSFORMER

KEYED NOTES - LIGHTING

- 1 INSTALL NEW ELEVATED FIXTURE (TYPE AS NOTED) ON NEW BASE CAN WITH NEW ISOLATION TRANSFORMER, CONNECTOR KIT, BOLTING HARDWARE, ETC FOR A COMPLETE AND ACCEPTED SYSTEM.



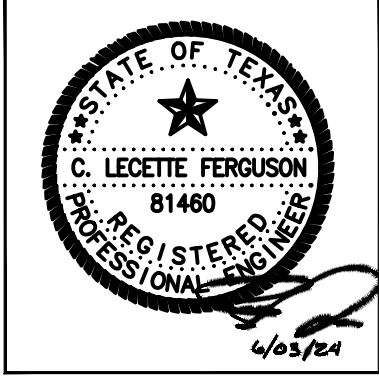
REVISIONS		
NO.	DESCRIPTION	DATE



TERMINAL A NORTH RON PARKING
 AT GEORGE BUSH INTERCONTINENTAL AIRPORT
**ELECTRICAL DETAILS -
 ELEVATED TWY EDGE LIGHT**
 T.I.P. No. 23-311-1AH B.S.G. No. 2023-356-1AH

ISSUED FOR PERMIT

PROJECT MGR:	CW
DESIGNER:	JGW
DRAWN BY:	JGW
CHECKED BY:	CLF
SCALE:	AS SHOWN
DATE:	6/03/2024



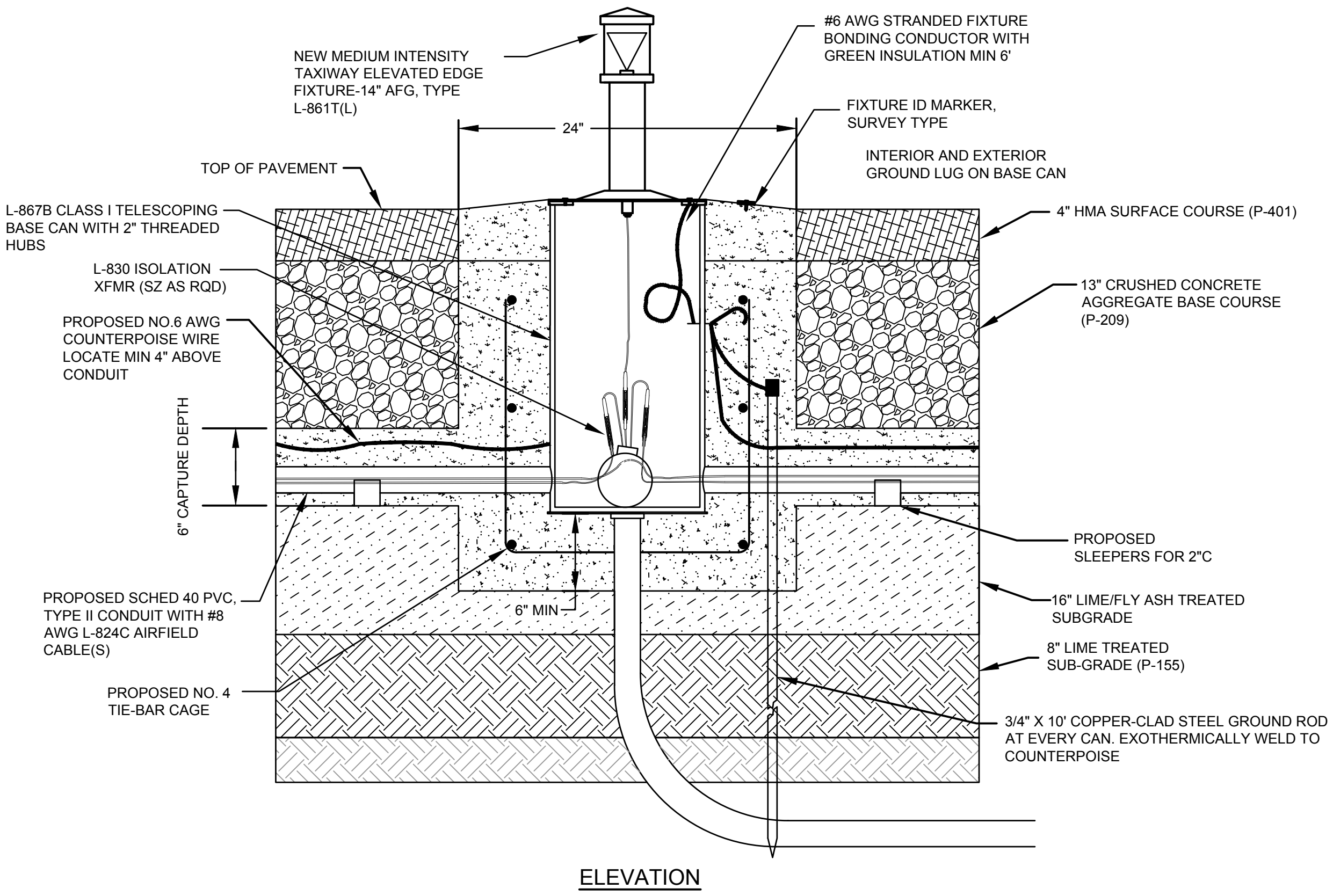
DEPARTMENT OF AVIATION	
APPROVED BY:	DATE:
HOUSTON AIRPORT SYSTEMS AUTHORIZED REPRESENTATIVE	

PROJECT NO.	PN 973
C.I.P. NO.	
H.A.S. NO.	
SHEET NO.	

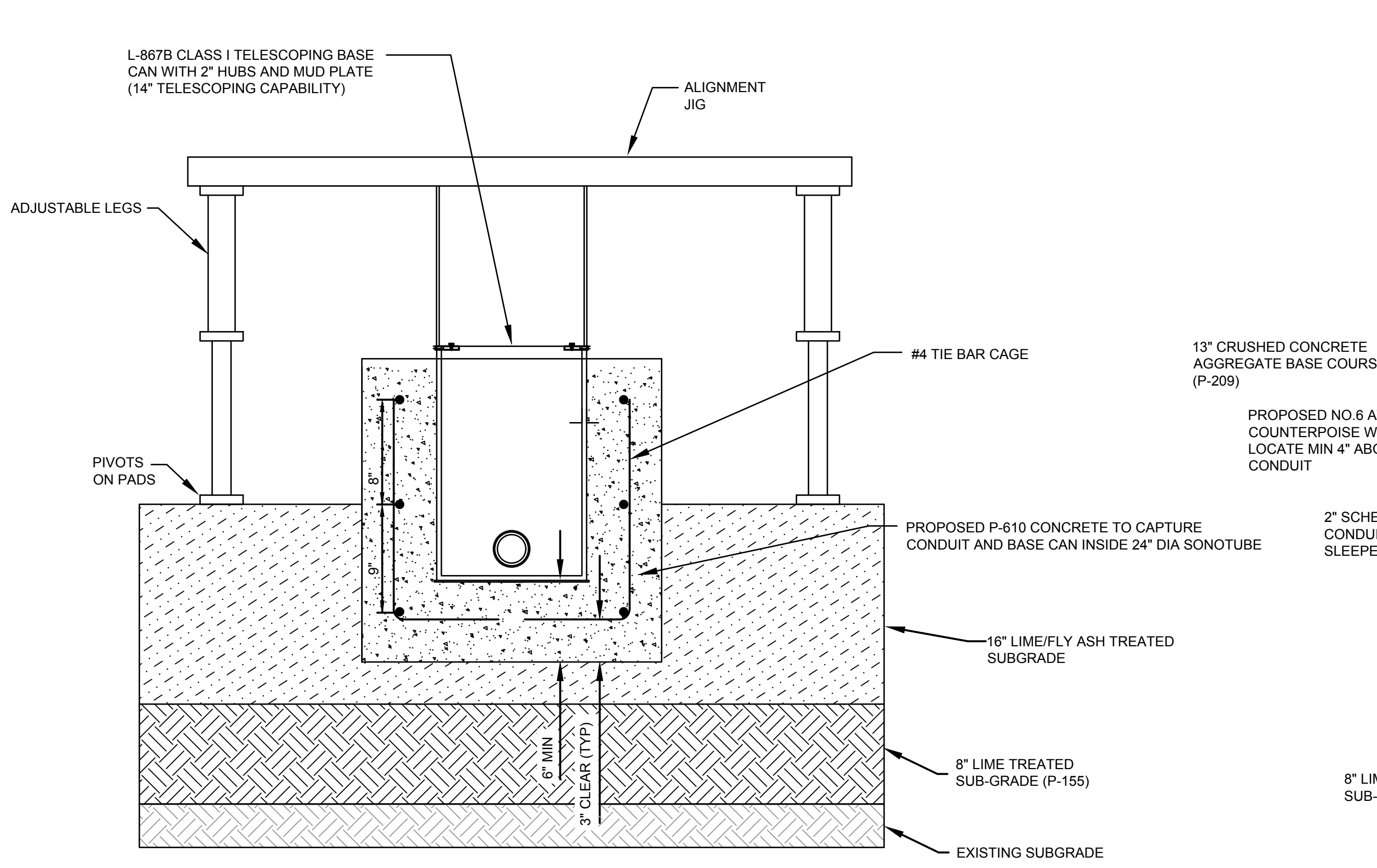
EP06.01

**TYPICAL ELEVATED EDGE LIGHT INSTALLATION
 IN NEW SHOULDER (REFER TO CIVIL SECTIONS):**

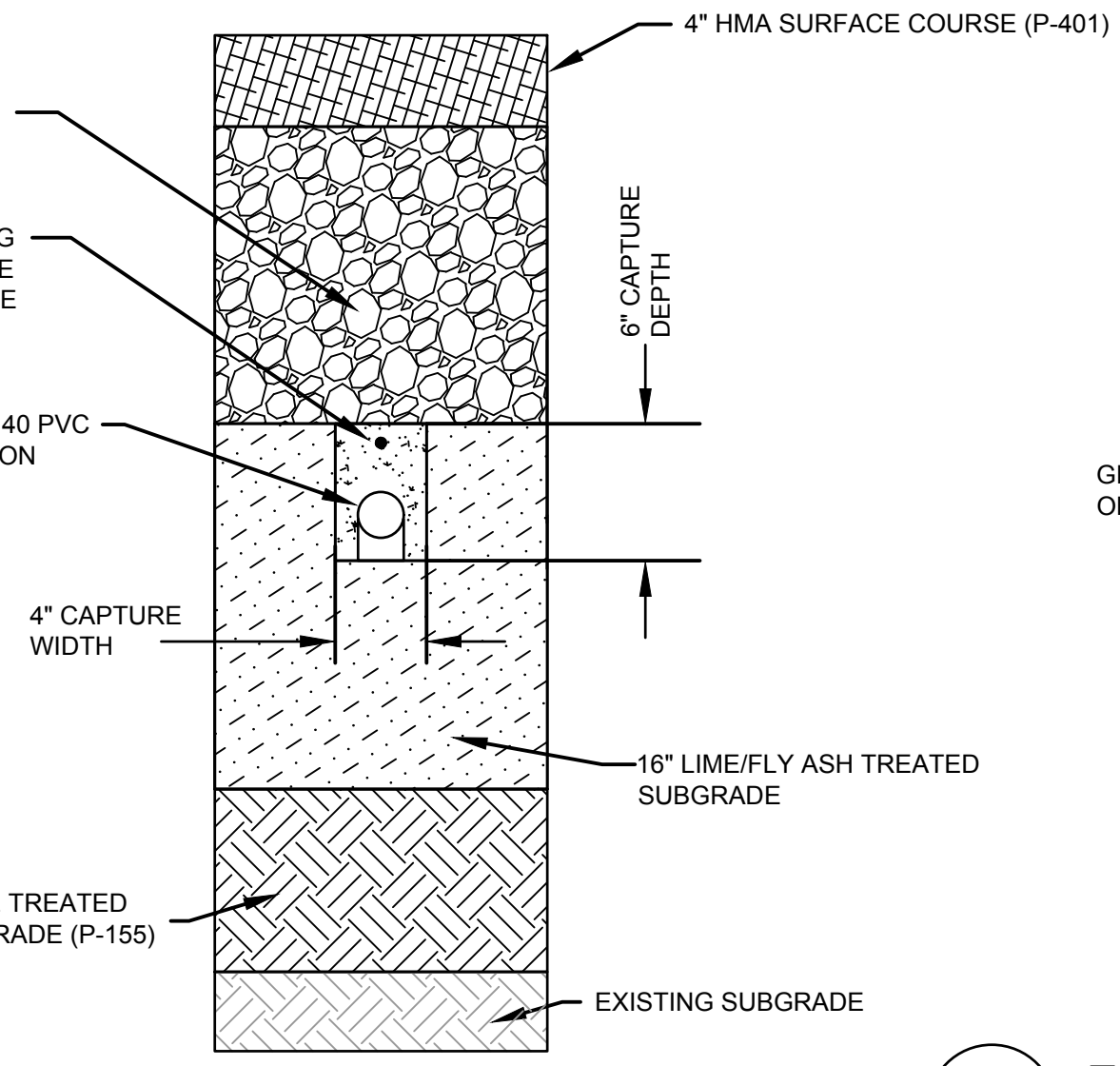
1. AFTER THE LIME/FLY ASH TREATED SUBGRADE IS PLACED, PREPARE A CAPTURE SECTION FOR A NEW BASE, 24" DIAMETER TO A MINIMUM DEPTH OF 29" BELOW FINAL GRADE.
2. INSTALL A 24" DIAMETER SONOTUBE INTO CAPTURE SECTION (APPROXIMATELY 12" INTO LIME/FLY ASH TREATED SUBGRADE), SONOTUBE TO EXTEND TO 1" BELOW TOP OF PROPOSED CRUSHED CONCRETE AGGREGATE BASE COURSE.
3. PROVIDE A CONDUIT TRENCH 4" WIDE BY NOMINAL 6" DEEP BETWEEN BASES AND OUTSIDE POINTS FOR NEW 2" PVC CONDUIT PLACEMENT INTO NEW SUBGRADE.
4. SET ADJUSTABLE L-867 BASE WITH MUD PLATE TO CAPTURE SECTION USING ALIGNMENT JIG TO KEEP ALIGNMENT AND ELEVATION PER FAA A/C.
5. PROVIDE #4 TIE-BAR CAGE AS DETAILED ON CAPTURE SECTION DETAIL.
6. RUN 2" SCHEDULE 40 PVC BETWEEN BASES COMPLETING CONDUIT INSTALLATIONS, PROVIDE CONDUIT SLEEPERS SO CONDUIT CONCRETE AGGREGATES WILL FLOW UNDER CONDUIT.
7. INSTALL SEPARATE GROUND ROD FOR EVERY BASE CAN AND AT 500' INTERVALS ALONG CONDUIT ROUTE.
8. INSTALL COUNTERPOISE WIRE CENTERED ABOVE CONDUIT. EXOTHERMICALLY WELD TO EACH GROUND ROD AND EXOTHERMIC WELD TO WIRE CAGE AND BASE CAN AT CUSTOM FACTORY MANUFACTURED MECHANICAL TERMINATION POINT WHICH HAS BEEN BONDED TO BASE CAN PRIOR TO GALVANIZATION PROCESS.
9. PLACE 1" LAYER OF SAND ON TOP OF MUD PLATE.
10. PLACE P-610 CONCRETE INTO TRENCH AND CAPTURE SECTION OF THE BASE CAN FILLING ANNULAR SPACE OF CONDUIT AND BASE CAN LEVELING UP TO TOP OF THE AGGREGATE BASE.
11. ONCE P-610 IS SET, REMOVE SONOTUBE.
12. SURVEY LOCATION OF NEWLY SET BASE CAN FOR EASE OF RECOVERY AFTER PROPOSED FINAL SHOULDER MATERIAL IS PLACED.
13. AFTER HMA SURFACE COURSE HAS BEEN PLACED, LOCATE NEW BASE CAN BY SURVEY, THEN DRILL A 4" PILOT HOLE TO LOCATE THE CENTER OF THE BASE.
14. AFTER DETERMINING CENTER OF BASE, CENTER A 24" DIAMETER CORE OVER THE BASE, CORE DOWN TO TOP OF BASE AND REMOVE THE CORE.
15. EXTEND ADJUSTABLE BASE UP TO 3/4" ABOVE FINISHED SURFACE OF SHOULDER.
16. PLACE P-610 CONCRETE INTO VOID, TAPERING OFF CONCRETE BACK TO SHOULDER SURFACE AS REQUIRED.
17. INSTALL A 2" DIAMETER BRASS SURVEY MARKER WITH STAMPED FIXTURE ID NUMBER. SEE FIXTURE SCHEDULE.



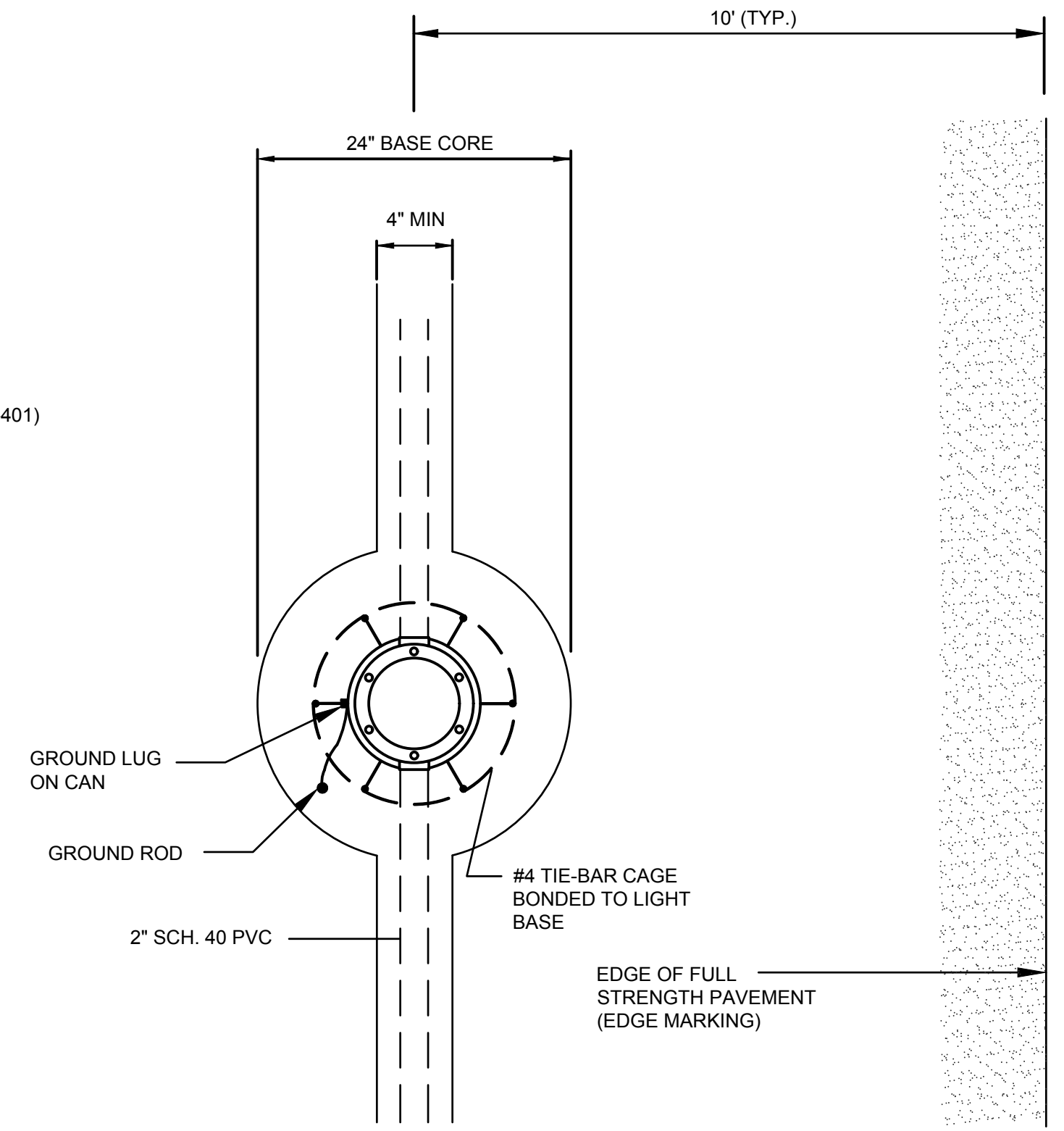
1 ELEVATED FIXTURE AT NEW SHOULDER
 SCALE: N.T.S.



2 CAPTURE SECTION
 SCALE: N.T.S.



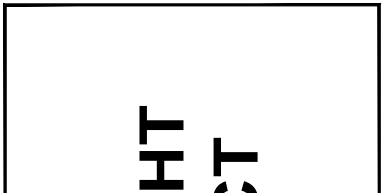
3 CONDUIT SECTION
 SCALE: N.T.S.



4 EDGE LIGHT BASE MOUNT - NEW SHOULDER CONSTRUCTION
 SCALE: N.T.S.

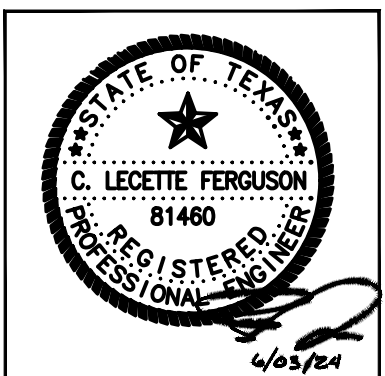
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REVISIONS			
NO.	DESCRIPTION	DATE	BY



TERMINAL A NORTH IRON PARKING
 AT GEORGE BUSH INTERCONTINENTAL AIRPORT
**ELECTRICAL DETAILS - EDGE LIGHT
 FINISHING, IDENTIFICATION, DUCT
 BANK AND SPLICING**
 T.I.P. No. 23-311-1AH
 B.S.G. No. 2023-356-1AH

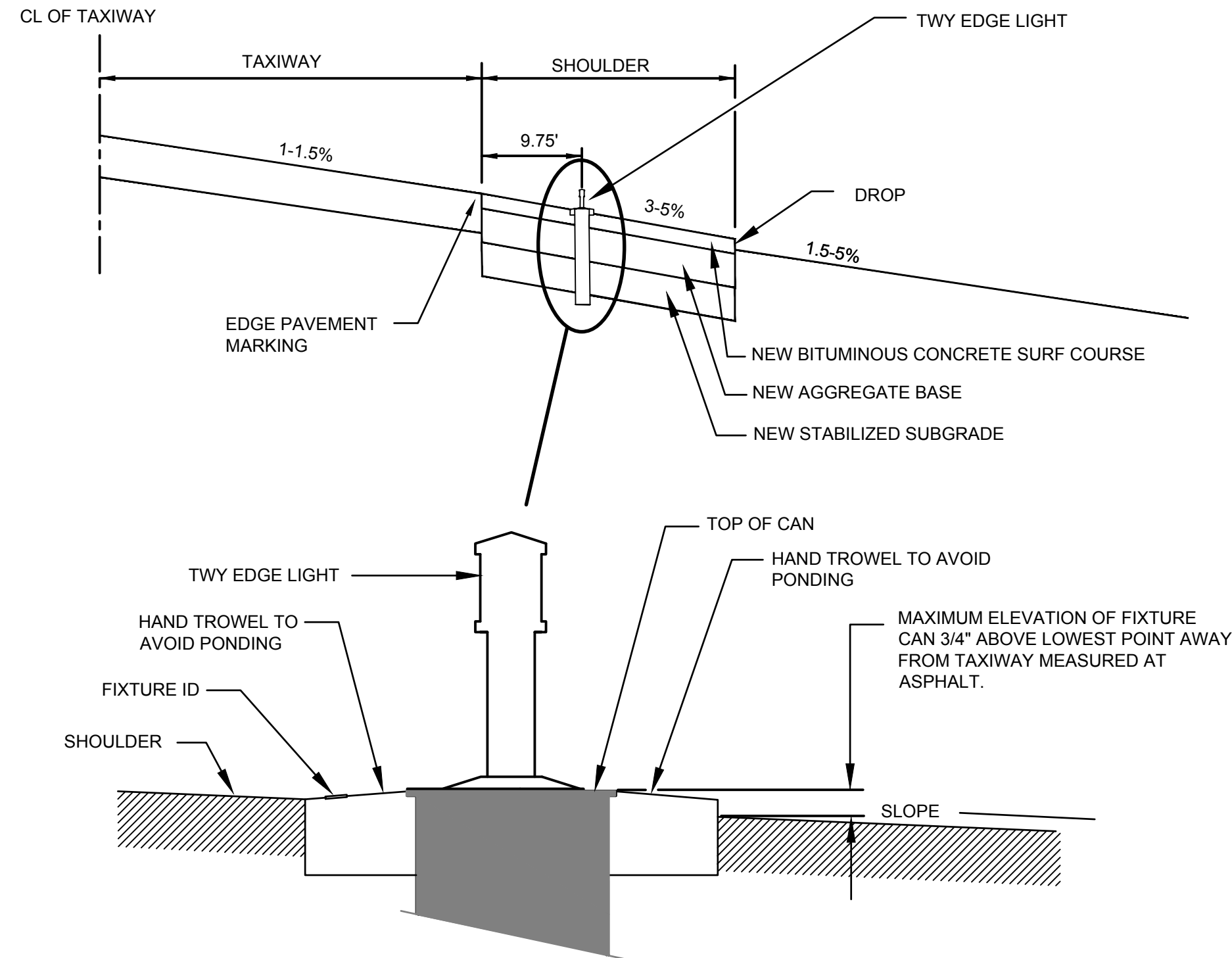
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PROJECT MGR:	CW
DESIGNER:	JGW
DRAWN BY:	JGW
CHECKED BY:	CLF
SCALE:	AS SHOWN
DATE:	6/03/2024



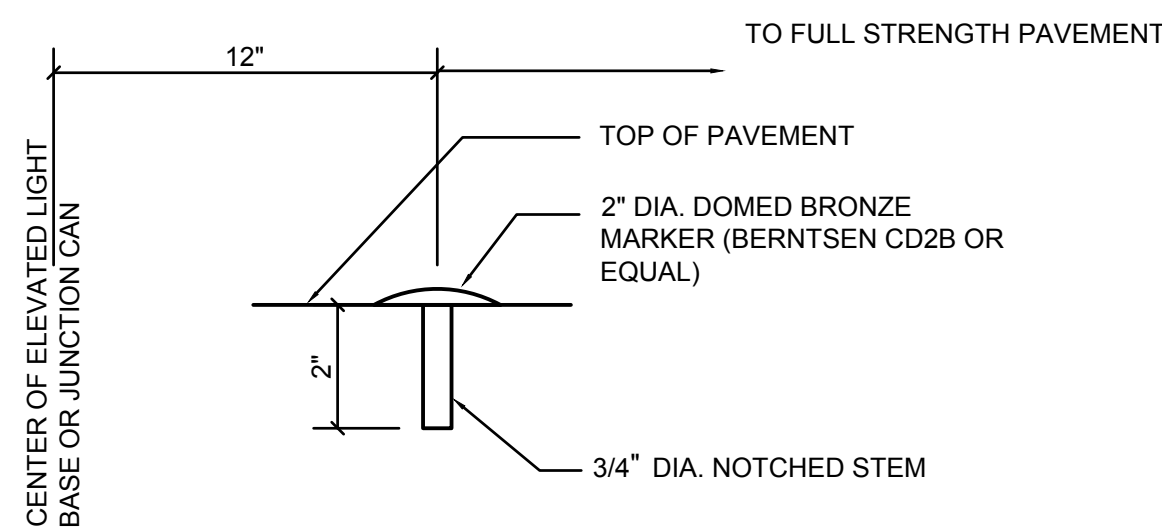
DEPARTMENT OF AVIATION	
APPROVED BY:	DATE:
HOUSTON AIRPORT SYSTEMS AUTHORIZED REPRESENTATIVE	

PROJECT NO.	PN 973
C.I.P. NO.	
H.A.S. NO.	
SHEET NO.	

EP06.02

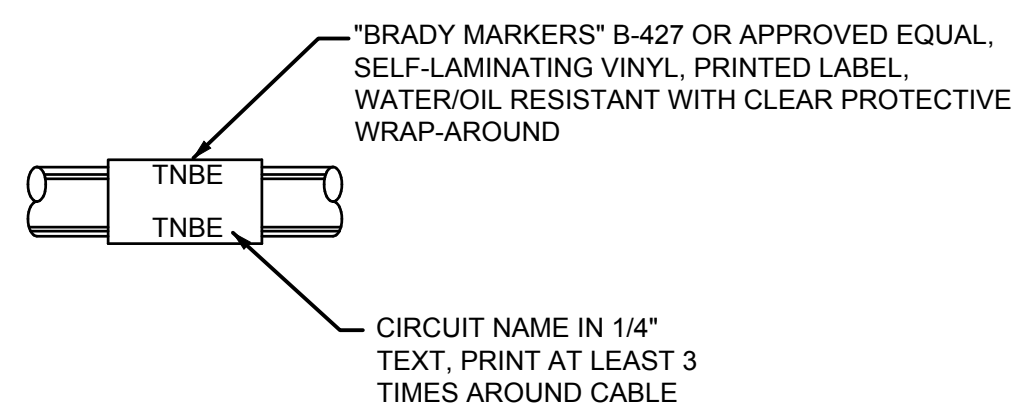


1 TYPICAL EDGE LIGHT FIXTURE FINISHING DETAIL
 SCALE: N.T.S.

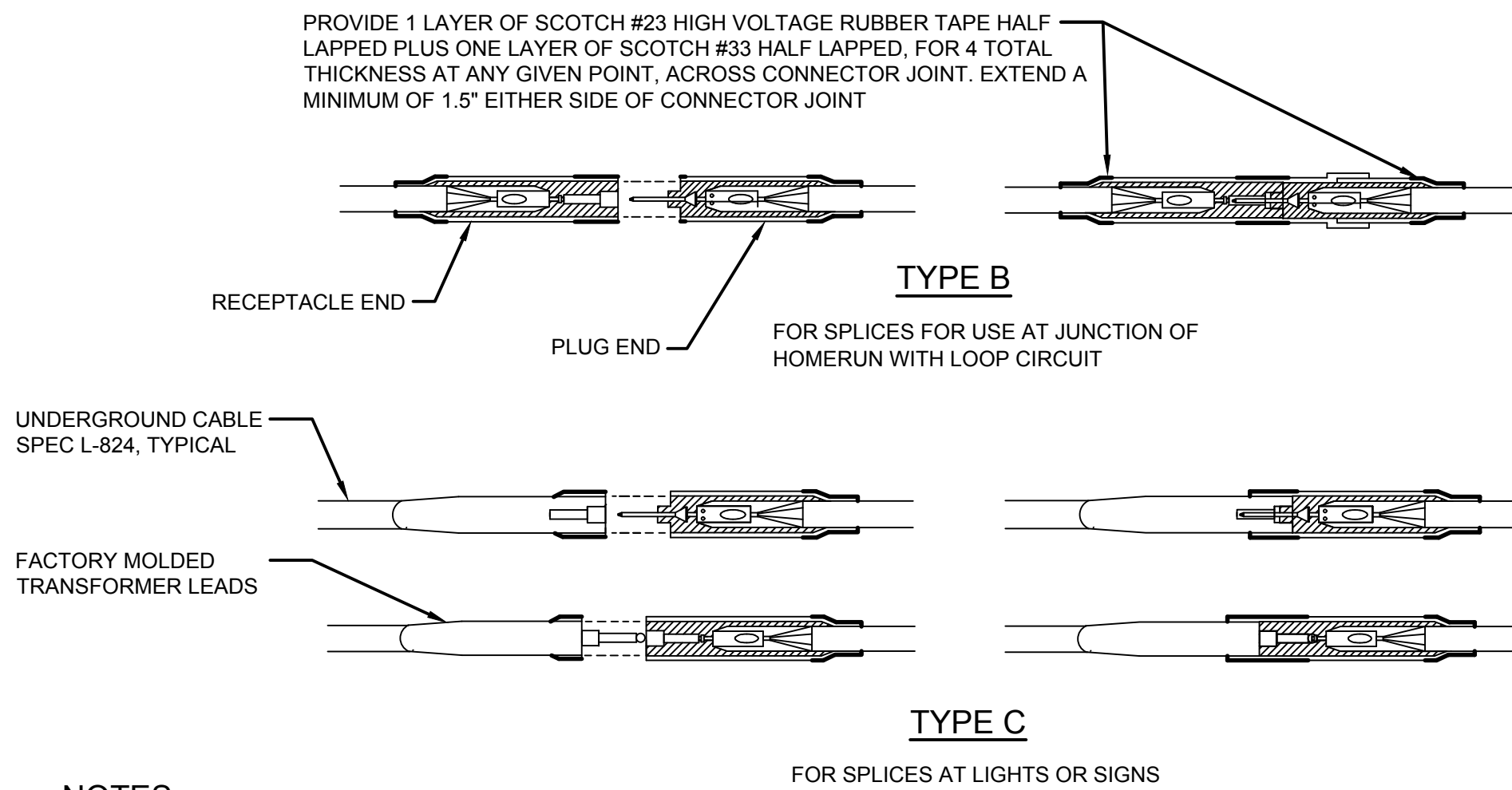


- NOTES:**
- IDENTIFICATION SHALL BE STAMPED 3/4\" LETTERS AND NUMBERS UNIFORMLY SPACED ON THE BRONZE MARKER.
 - IDENTIFICATION MARKERS SHALL BE UNIFORMLY INSTALLED ADJACENT TO JUNCTION CANS AND ELEVATED EDGE LIGHTS LOCATED PERPENDICULAR TO PAVEMENT CENTERLINE INBOARD OF THE BASE CAN.
 - NO ID MARKERS NEEDED FOR TEMPORARY RED ELEVATED EDGE REFLECTORS ON D2, WQ, AND WR.

3 BRASS ID MARKER FOR CONCRETE PAVEMENT
 SCALE: N.T.S.



4 L-824 CABLE IDENTIFICATION LABEL
 SCALE: N.T.S.

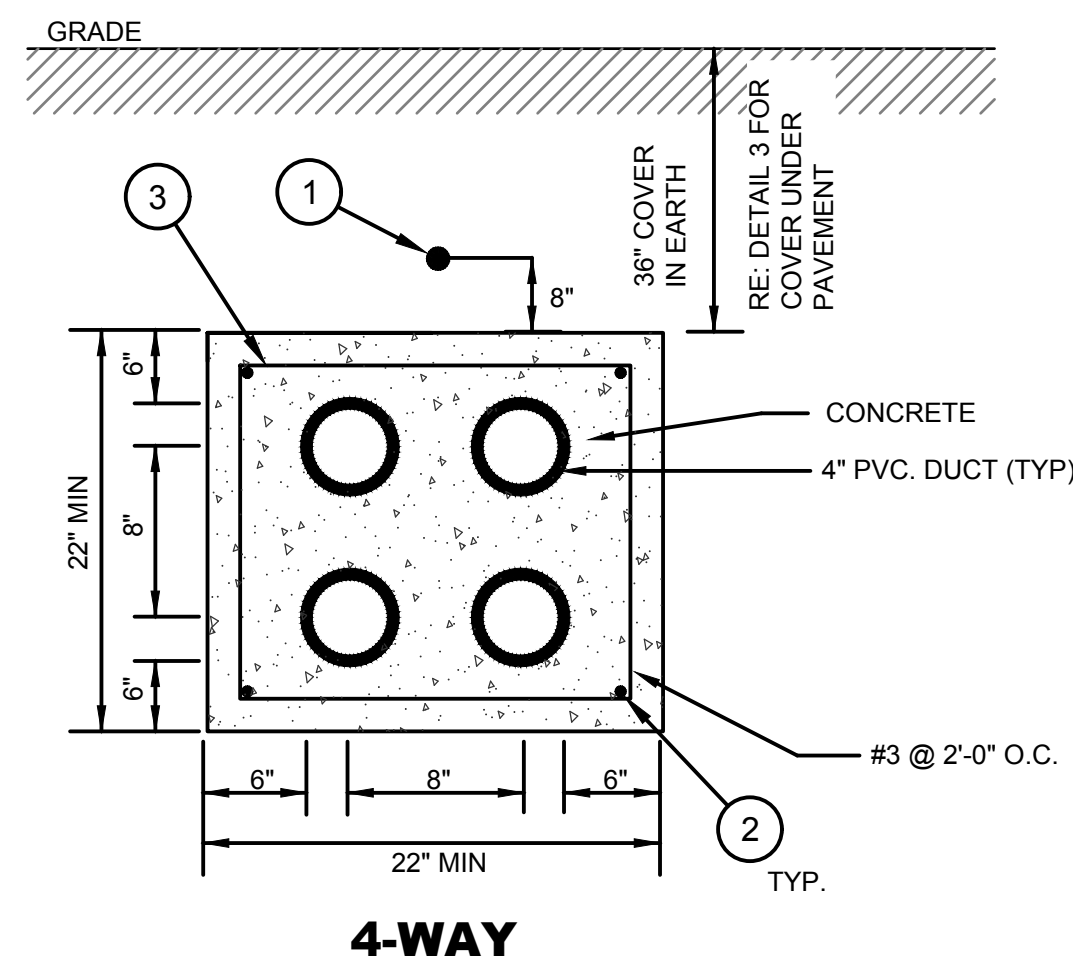


- NOTES:**
- PROVIDE STANDARD L-823 KIT FOR SPLICES.
 - PROVIDE COLOR CODED CABLE ID AT EVERY SPLICE IN CANS, PULL BOX, HANDHOLE, AND MANHOLE.

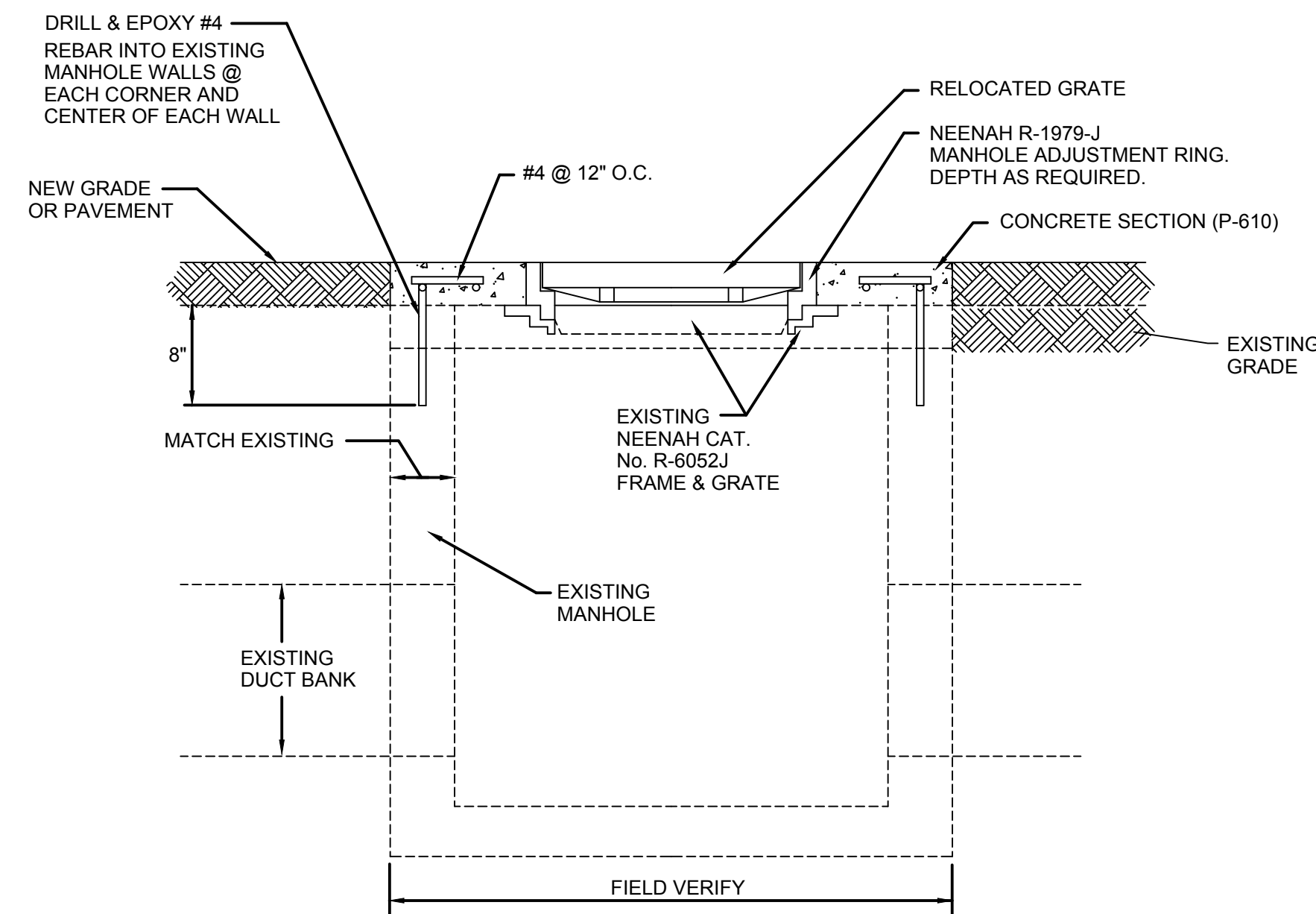
2 SPLICE DETAILS
 SCALE: N.T.S.

DETAIL KEYED NOTES

- INSTALL 1 #6 AWG. BARE COPPER SOLID WIRE EXTEND 12\" EACH END
- PROVIDE #4 REBAR AT EACH CORNER AND SPACERS EVERY 5 FEET.
- INSTALL STIRRUPS AT EVERY 24\" ON CENTER.
- INSTALL CONDUIT SPACERS EVERY 5 FEET.



5 4-WAY 4\" DUCT BANK DETAIL
 SCALE: N.T.S.



6 AIRCRAFT RATED MANHOLE ADJUSTMENT FOR GRADE MODIFICATION
 SCALE: N.T.S.

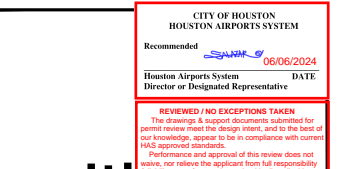


HOUSTON AIRPORT SYSTEM

GEORGE BUSH INTERCONTINENTAL AIRPORT HOUSTON, TEXAS



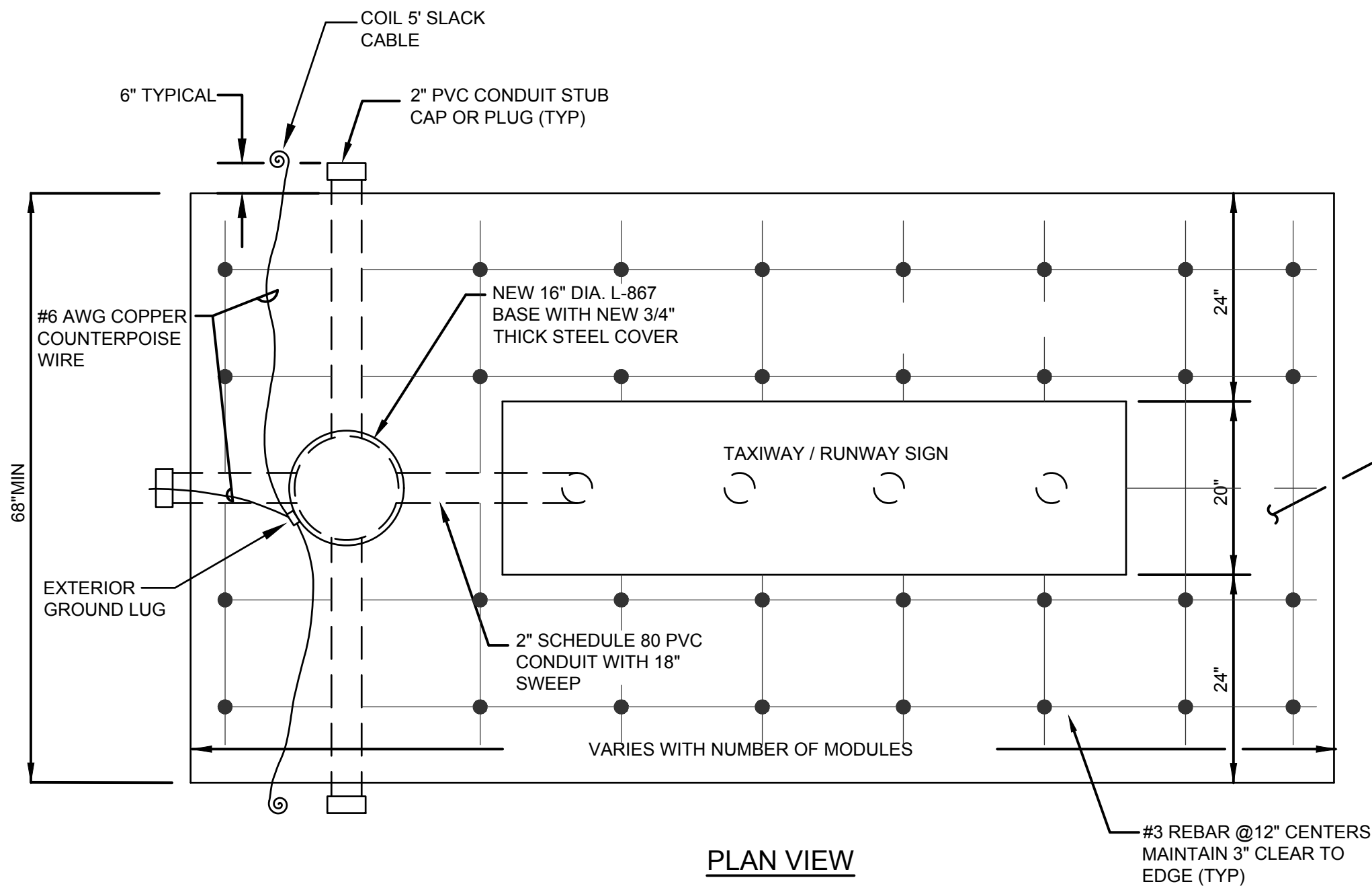
REVISIONS		
NO.	DESCRIPTION	DATE



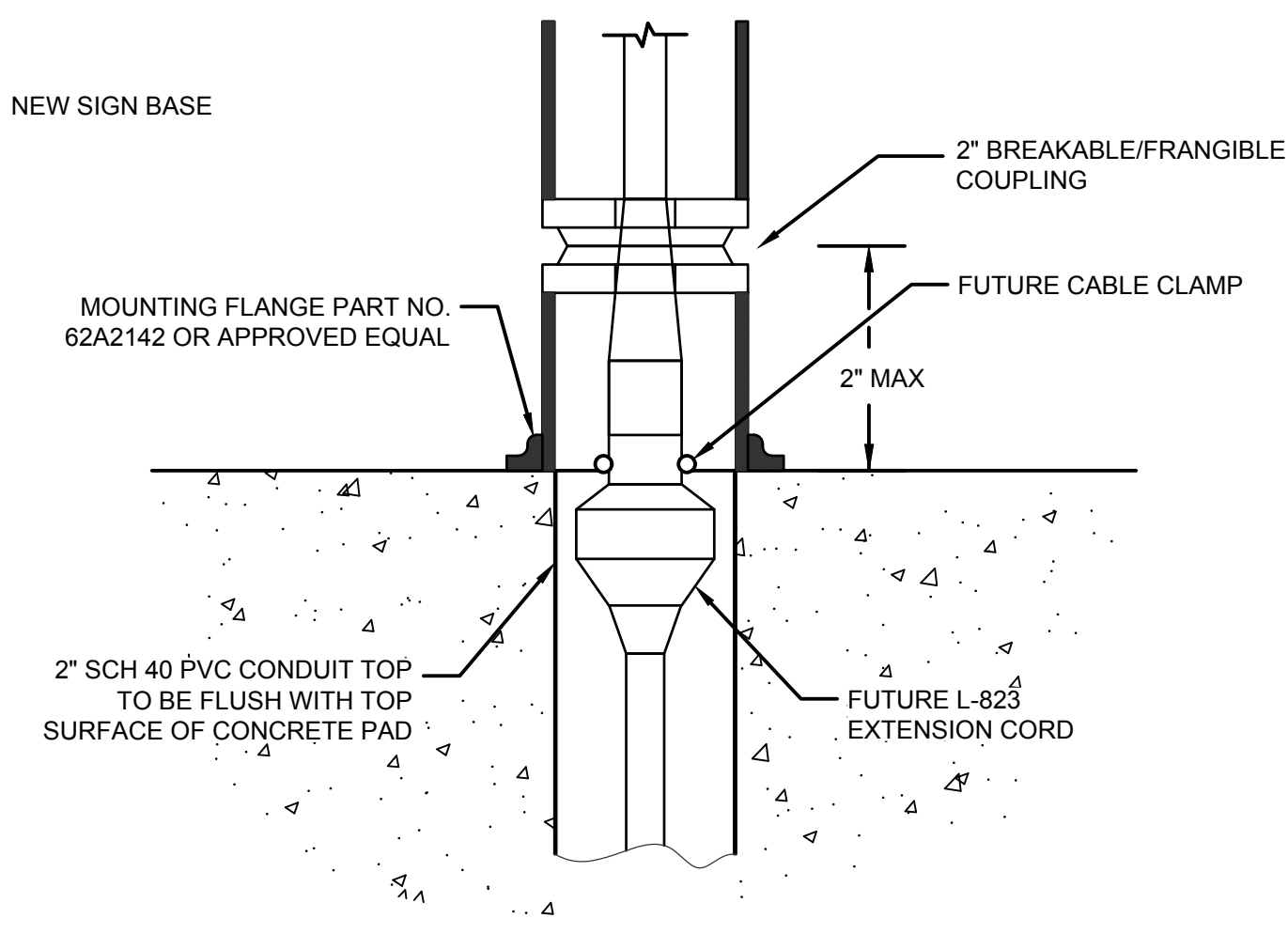
TERMINAL A NORTH RON PARKING
 AT GEORGE BUSH INTERCONTINENTAL AIRPORT
ELECTRICAL DETAILS - SIGNAGE
 T.I.P. No. 23-311-IAH
 B.S.G. No. 2023-356-IAH

GENERAL SIGN NOTES

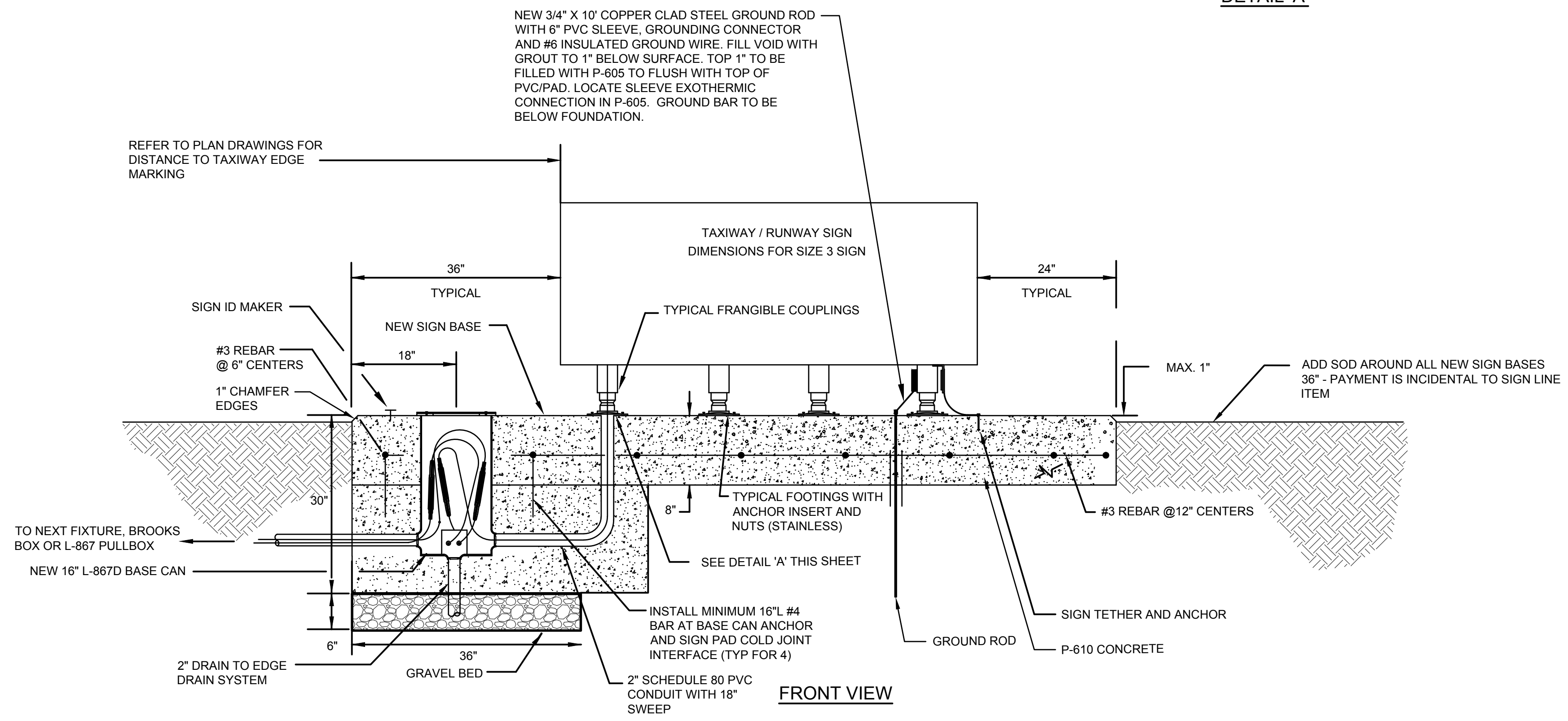
- REFER TO PLAN DRAWING FOR SIGN NUMBERS, LEGEND, TYPE AND NUMBER OF MODULES.
- REFER TO PLAN DRAWING FOR SIGN LOCATIONS.
- ALL LETTERS AND SPACINGS OF NEW SIGNS TO BE PER AC 150/5345-44 LATEST REVISION.
- ALL NEW SIGNS, SIGN MODULES AND ANY MODIFICATION TO AN EXISTING SIGN SHALL CONFORM TO AC 150/5340-18 AND 150/5345-44, LATEST EDITIONS AND SIGNAGE AND MARKING SUPPLEMENTS.
- THE SIGNS SHALL BE FRANGIBLE, MEETING THE REQUIREMENTS OF AC 150/5345-44, LATEST REVISION.
- THE DETAILS SHOWN IN THE PLANS PROVIDE THE MINIMUM REQUIREMENTS FOR SIGN INSTALLATIONS. THE CONTRACTOR SHALL USE STANDARDS APPLICABLE FOR THE PARTICULAR SIGN MANUFACTURER. THE BOLTING PATTERN, METHOD OF ANCHORING, ETC., SHALL BE PER SIGN MANUFACTURER'S RECOMMENDATIONS AND APPROVED BY THE OAR.
- THE ACTUAL SIGN DIMENSIONS WILL VARY PER MANUFACTURER. THE BASE SIZE AS SHOWN SHALL BE ADJUSTED TO MATCH THE SIGN SUBMITTED. THE SUBMITTAL SHALL INCLUDE NEW BASE DIMENSIONS, LAYOUT, ETC.
- FOR LOCATION AND ORIENTATION OF SIGNS AND FOUNDATIONS, SEE PLANS. THE LOCATION SHOWN ON THE PLANS IS THE PERPENDICULAR DISTANCE FROM THE DEFINED TAXIWAY EDGE, TO THE NEAR SIDE OF THE SIGN ON THE SIGN'S LONGITUDINAL CENTERLINE (SEE PLAN VIEW). ALL SIGNS SHALL BE INSTALLED WITH FIXTURE I.D. MARKERS.
- ALL SIGNS SHALL BE ORIENTED SUCH THAT THE LONGITUDINAL CENTERLINE OF THE SIGN IS PERPENDICULAR TO THE RESPECTIVE RUNWAY OR TAXIWAY CENTERLINE, UNLESS NOTED OTHERWISE.
- CONTRACTOR SHALL PROVIDE NEW CONCRETE FOUNDATION, BASE CAN, GROUND ROD AND CONNECTORS, SIGN TAG AND SIGN ID MARKER FOR ALL NEW GUIDANCE SIGNS.
- SITE GRADING AT EACH SIGN IS ANTICIPATED. GRADING AND RESTORATION ARE INCIDENTAL TO THE SIGN LINE ITEM.
- ALL CONCRETE SHALL COMPLY WITH P-610 SPECIFICATION. P-610 CONCRETE STEEL REINFORCEMENT SHALL BE TYPE ASTM A615 GRADE 60. ALL REINFORCEMENT SHALL HAVE A 2" MINIMUM CONCRETE COVER. REINFORCEMENTS MAY BE ADJUSTED TO MISS INTERFERENCES.
- STRUCTURAL BACKFILL, FREE-DRAINING, AS APPROVED BY THE OAR, SHALL BE PLACED IN HORIZONTAL LIFTS NOT TO EXCEED 4" IN LOOSE DEPTH AND COMPACTED TO 95% MAXIMUM DENSITY AT ZERO TO 2% ABOVE OPTIMUM MOISTURE AS DETERMINED BY ASTM D1557. SLOPE SHALL NOT EXCEED 3:1 WITHIN RUNWAY SAFETY AREA. REFER TO P-152.
- SODDING OF DISTURBED AREAS SHALL BE INCLUDED IN THE INDIVIDUAL SIGN PAY ITEM. EXCAVATION, GRADING, FILL ETC. FOR THE SIGNS IS INCIDENTAL TO THE SIGN PAY ITEM.
- ALL AREAS FOR THE SUPPORT PLATES SHALL BE IN THE SAME HORIZONTAL PLANE. WHEN CAST INTEGRALLY WITH THE CONCRETE PAD, THE ANCHOR BOLTS SHALL BE A-36 STEEL, HOT DIP GALVANIZED.
- BASE CAN SHALL BE ON SIDE OF SIGN CLOSEST TO THE POWER SOURCE.
- APPLY ANTI-SEIZE OR APPROVED EQUAL TO ALL THREADED BOLTS AND CONNECTIONS.
- SIGNS TO BE PLACED PLUMB AND LEVEL.
- FRANGIBLE COUPLING SHALL BE LOCATED 1/2" MAX. ABOVE COVER. MANUFACTURER SHALL PROVIDE AT LEAST A 1/4" DIA OPENING OR EQUAL FOR DRAINAGE INTO L-867 BASE. COUPLING SHALL NOT BE SUPPLIED WITH WEEP HOLES TO THE OUTSIDE.
- GROUND RODS SHALL BE 3/4" DIA. X 10'L STAINLESS STEEL ROD. EACH GROUND ROD SHALL BE TESTED PRIOR TO CONNECTION TO THE GROUND SYSTEM. THE EARTH RESISTANCE AT EACH ROD SHALL NOT EXCEED 25 OHMS. INSTALL ADDITIONAL RODS AS NEEDED TO ACHIEVE THE 25 OHM MAX RESISTANCE REQUIREMENT.
- THE #6 AWG COPPER BONDING CONDUCTOR AND SIGN TETHER SHALL NOT BE ATTACHED AT THE SAME ANCHOR BOLT. AN APPROVED IRREVERSIBLE CRIMP SHALL BE USED TO CONNECT THE BONDING CONDUCTOR TO THE SIGN FLANGE AND SIGN.
- USE #6 AWG COPPER COUNTERPOISE WITH TYPE THHW INSULATION WHEN INSTALLED IN CONCRETE. COUNTERPOISE TO BE CONNECTED TO GROUND ROD AT EACH SIGN. THIS CONTRACTOR SHALL VERIFY THAT THE 6" SLEEVE IS LARGE ENOUGH TO ACCOMMODATE THE EXOTHERMIC CONNECTION MOLD. THE TOP OF THE GROUND ROD SHALL BE ± 1" ABOVE THE PAD 1". THE GROUND ROD SHALL NOT BE DRIVEN AFTER THE EXOTHERMIC CONNECTION HAS BEEN MADE.
- ALL SIGNS SHALL BE FURNISHED WITH TWO TETHERS PER SIGN. TETHERS SHALL BE 3/16" STAINLESS STEEL AIRCRAFT CABLE WITH A FORMED EYE ON BOTH ENDS. THE TETHER EYE SHALL BE ATTACHED TO THE SIGN AND BASE BY BEING SANDWICHED BETWEEN TWO STAINLESS STEEL FENDER WASHERS, WITH A 1/2" MINIMUM STAINLESS STEEL BOLT. THE TETHER SHALL BE OF SUFFICIENT LENGTH TO HAVE A MINIMUM OF 6" OF SLACK WHEN ATTACHED BETWEEN THE SIGN AND THE SIGN BASE. THE TETHERS AND BONDING CONDUCTORS SHALL BE OF SUFFICIENT LENGTH TO ALLOW THE FRANGIBLE COUPLINGS TO OPERATE WITHOUT RESTRICTIONS AND TO ALLOW THE POWER CABLE TO DISCONNECT IF THE SIGN FALLS OVER.
- SIGNS SHALL BE SEALED AGAINST INFILTRATION BY WATER AND DIRT.



NOTE:
NUMBER AND LOCATION OF INSET UNISTRUTS VARIES ON MANUFACTURER SIZE OF SIGN AND MODULES



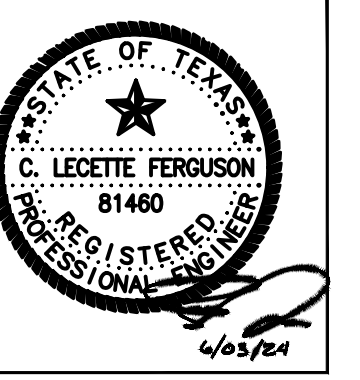
DETAIL 'A'



1
EP06.03
TYPICAL NEW SIGN AND BASE DETAIL
SCALE: N.T.S.

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ISSUED FOR PERMIT	
PROJECT MGR:	CW
DESIGNER:	JGW
DRAWN BY:	JGW
CHECKED BY:	CLF
SCALE:	AS SHOWN
DATE:	6/03/2024



DEPARTMENT OF AVIATION	
APPROVED BY:	DATE:

PROJECT NO.	PN 973
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H.A.S. NO.	
SHEET NO.	

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