

CITY OF PHOENIX, ARIZONA

SKY HARBOR INTERNATIONAL AIRPORT

PHOENIX SKY TRAIN

STAGE 2

PACKAGE B02

ISSUED FOR CONSTRUCTION

VOLUME 1

MARCH 2, 2018

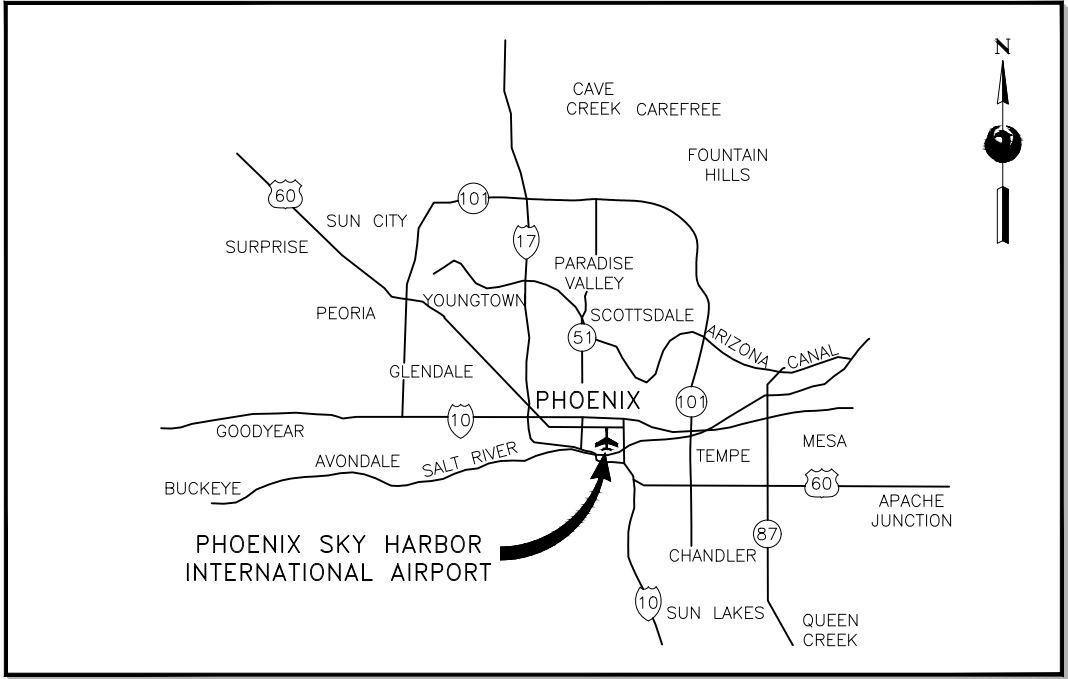
AIP NO. AV10000011

PHX

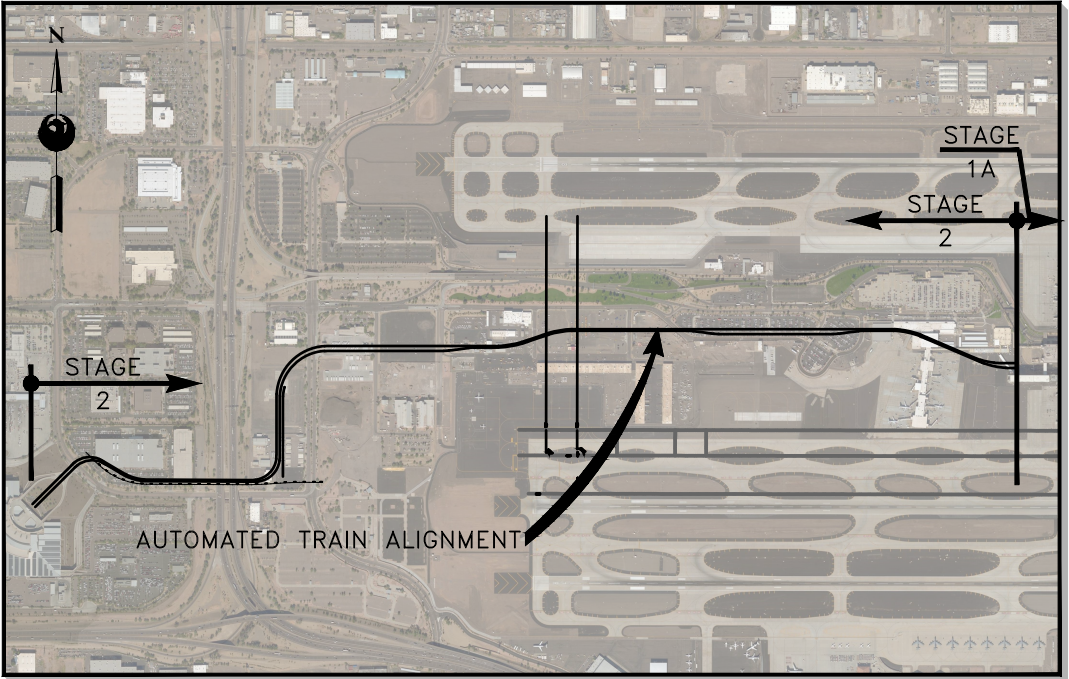
PHOENIX SKY HARBOR
INTERNATIONAL AIRPORT

PER CITY OF PHOENIX ORDINANCE G-4396,
THESE PLANS ARE FOR OFFICIAL USE ONLY AND
MAY NOT BE SHARED WITH OTHERS EXCEPT AS
REQUIRED TO FULFILL THE OBLIGATIONS OF YOUR
CONTRACT WITH THE CITY OF PHOENIX.

VICINITY MAP



PROJECT MAP



PHOENIX CITY COUNCIL

DISTRICT 1	THELDA WILLIAMS
DISTRICT 2	JIM WARING
DISTRICT 3	DEBRA STARK
DISTRICT 4	LAURA PASTOR, VICE MAYOR
DISTRICT 5	DANIEL VALENZUELA
DISTRICT 6	SAL DICICCIO
DISTRICT 7	MICHAEL NOWAKOWSKI
DISTRICT 8	KATE GALLEG0

MAYOR

GREG STANTON

AVIATION ADVISORY BOARD

STEPHANIE FLEISCHMAN CHERNY – CHAIRPERSON
ED MALDONADO – VICE CHAIRPERSON
VERMA PASTOR
BYRON JONES
PETE GORRAIZ
KARLENE KEOGH PARKS
ALAN POWELL
LEEZIE KIM
ART HAMILTON

CITY OF PHOENIX

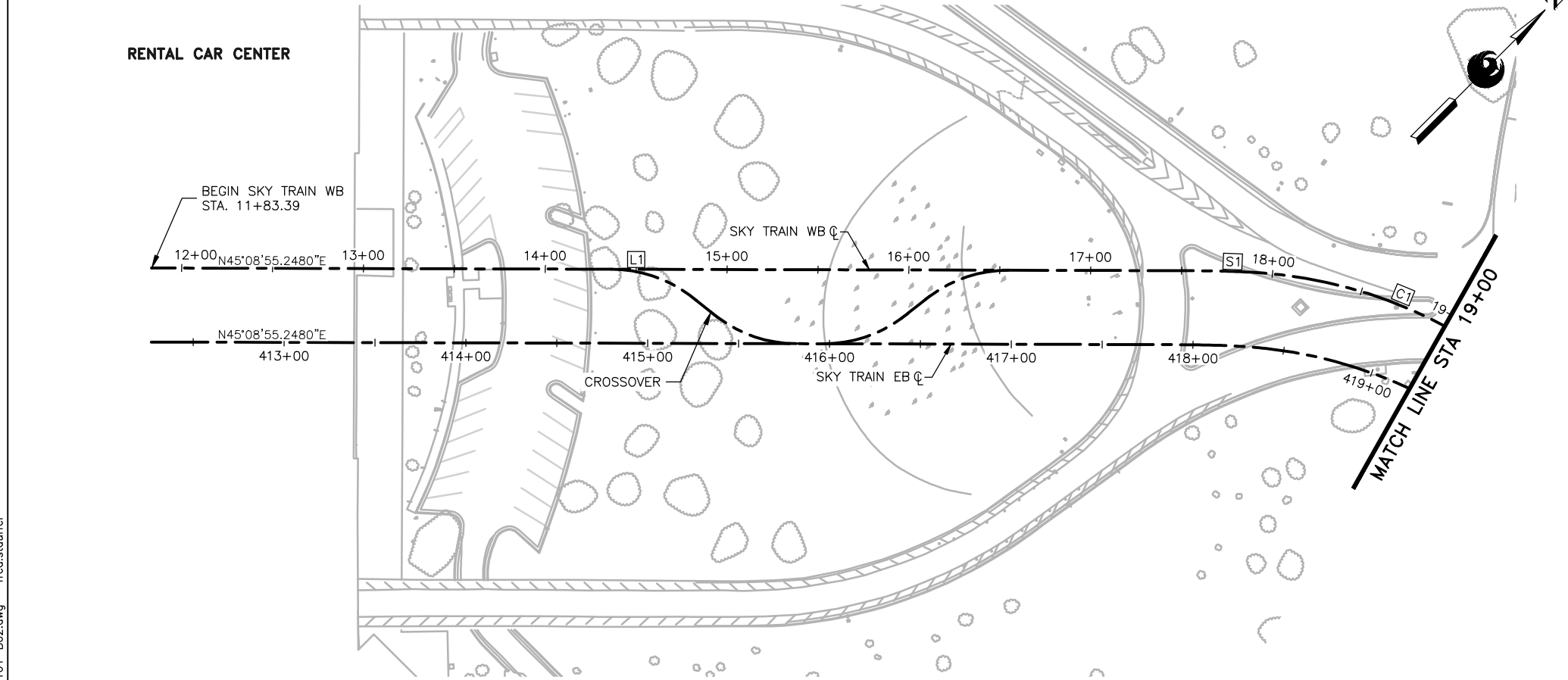
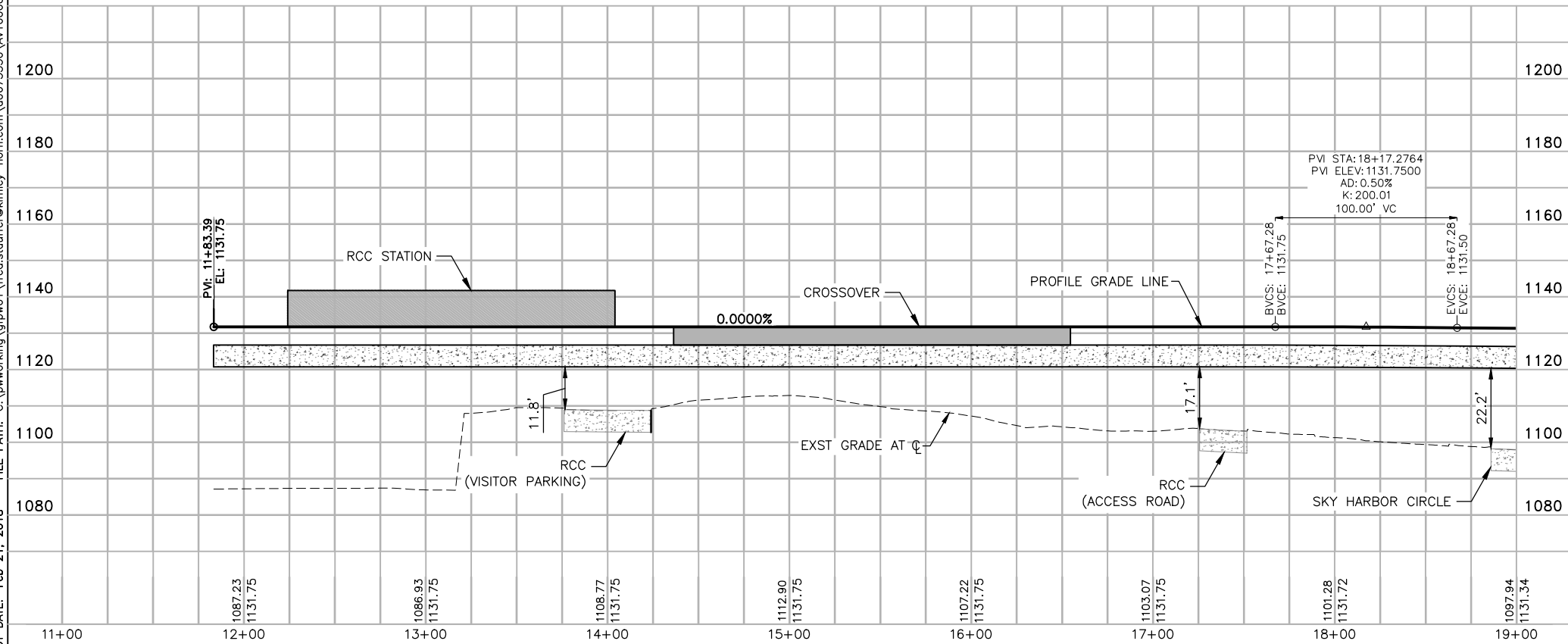
200 WEST WASHINGTON ST.
PHOENIX, AZ 85003

APPROVAL

JAMES BENNETT
AVIATION DIRECTOR

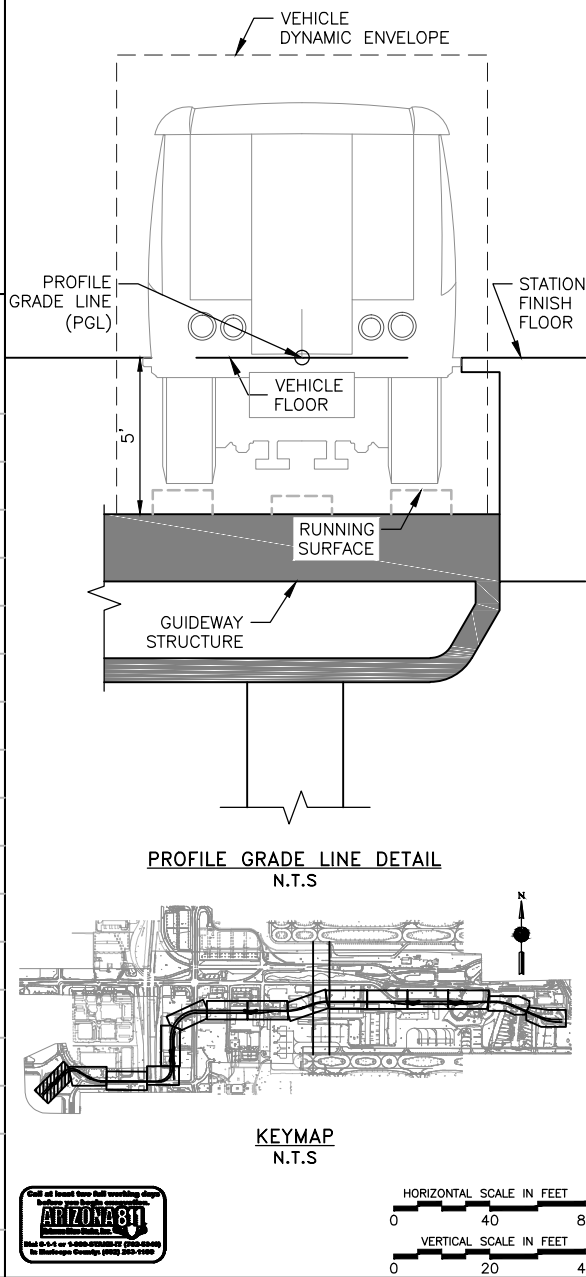
DATE



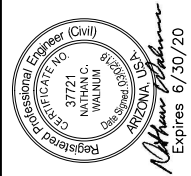


GENERAL NOTES

1. EXISTING UTILITIES ARE SHOWN IN APPROXIMATE LOCATIONS ONLY. CONTRACTOR SHALL VERIFY EXACT LOCATIONS OF ALL UNDERGROUND UTILITIES PRIOR TO COMMENCING WORK IN ANY AREA.
2. PROFILE GRADE LINE (PGL) ELEVATIONS CORRESPOND TO THE STATION PLATFORM FINISH FLOOR ELEVATION, OR 5' ABOVE GUIDEWAY STRUCTURE OUTSIDE OF THE STATION AREAS. REFER TO SHEETS MSCV1101 OR MSCV1116 FOR DETAIL.



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CITY OF PHOENIX.



Design Sub-Consultant

Kimley»»Horn



Gannett Fleming
Design Consultant

[illegible]

PHX DVT EYR
CITY OF PHOENIX AVIATION DEPARTMENT

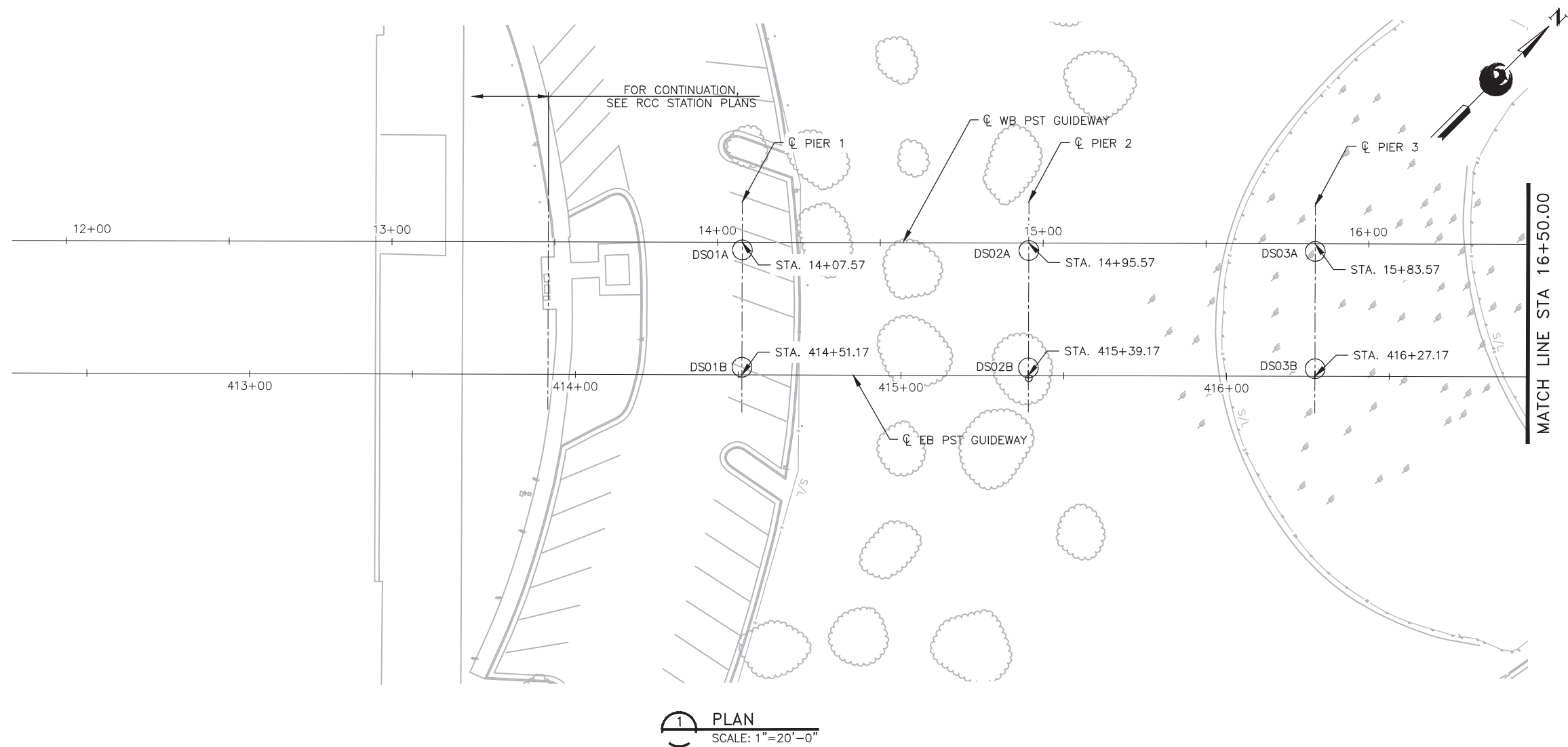
**PHX SKY TRAIN
STAGE 2 DESIGN
5500 S. 24TH STREET
PHOENIX, AZ 85034**

Designed by: FAS
Drawn by: FAS
Checked by: NOW
Date: 03/02/2018
Dwg scale: 1"=40'
CIP No.: AV100000111
KIVA No.: 07-5204

STAGE 2 – B02 DESIGN SUBMISSION

**GUIDEWAY
PLAN & PROFILE
WB ALIGNMENT
STA. 11+83.39 TO STA. 19+00**

Package: Sheet Reference No:
B02 - MSCV1101
V1 - 009 of 083



FOUNDATION SCHEDULE									
MARK	DRILLED SHAFT DIAMETER (IN)	* FINISHED GROUND ELEVATION	TOP OF DRILLED SHAFT ELEVATION	BOTTOM OF DRILLED SHAFT ELEVATION	DRILLED SHAFT LENGTH (ft)	STATION	OFFSET	NORTHING	EASTING
DS01A	72	1109	1107	1055	52	14+07.57	2.33' Rt	884562.05	661240.43
DS01B	72	1109	1107	1055	52	14+07.56	38.38' Rt	884536.49	661265.84
DS02A	72	1113	1111	1058	53	14+95.57	2.33' Rt	884624.12	661302.82
DS02B	72	1113	1111	1058	53	14+95.56	38.38' Rt	884598.56	661328.23
DS03A	72	1107	1105	1058	47	15+83.57	2.33' Rt	884686.18	661365.21
DS03B	72	1107	1105	1058	47	15+83.56	38.38' Rt	884660.62	661390.62

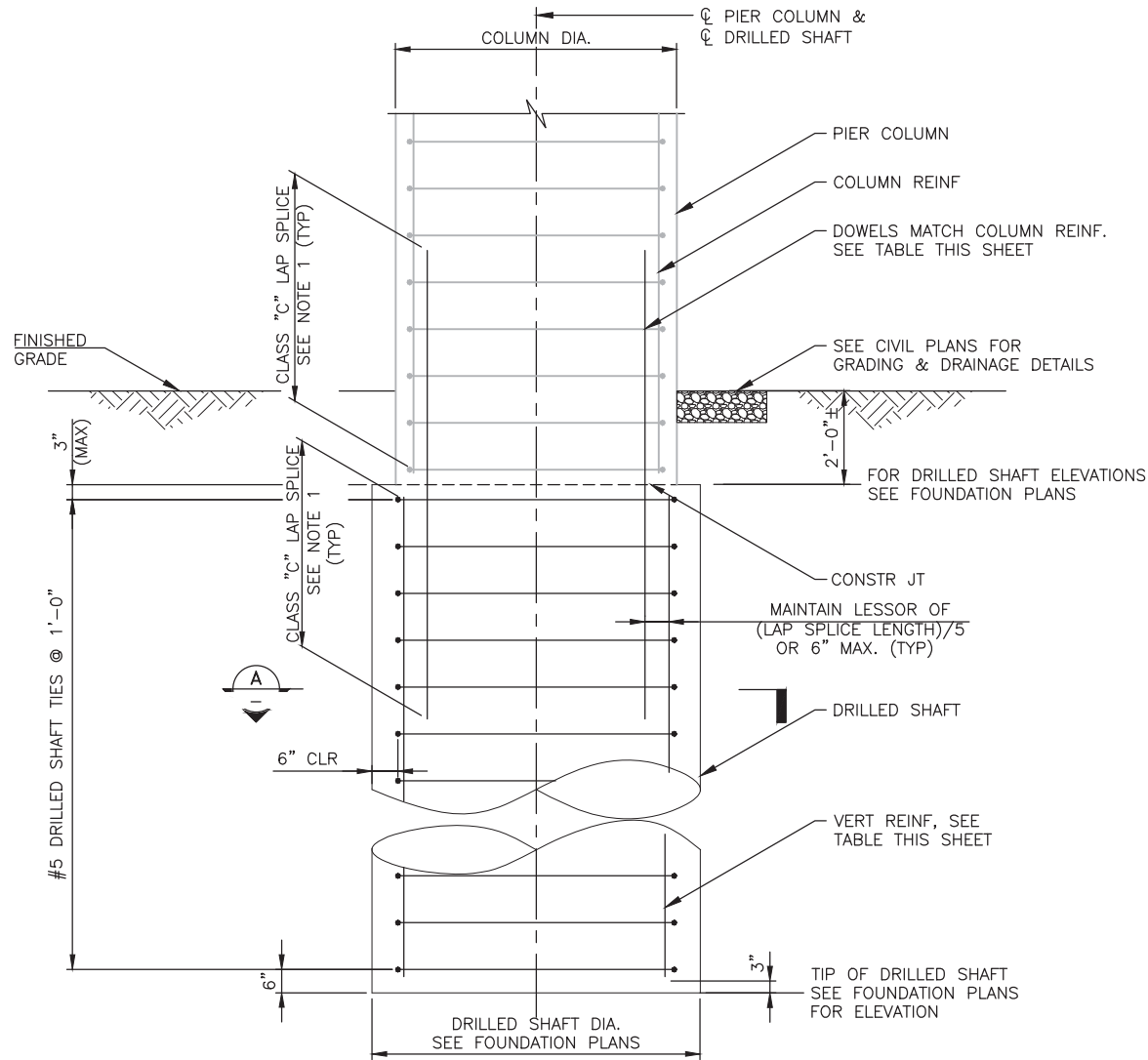
* CONTRACTOR SHALL INFORM THE PROGRAM/PROJECT MANAGER IF ACTUAL GROUND ELEVATIONS DIFFER FROM THOSE SHOWN BY MORE THAN 6".

- NOTES:
1. CONTRACTOR TO VERIFY ALL GROUND ELEVATIONS, UTILITY LOCATIONS AND EXISTING STRUCTURES BEFORE CONSTRUCTION.
 2. REFER TO SHEET GWSG522 FOR FOUNDATION DETAILS.
 3. STATIONS AND OFFSETS GIVEN ALONG WB PST GUIDEWAY.
 4. NORTHINGS AND EASTINGS GIVEN TO CENTER POINTS OF DRILLED SHAFTS. THIS POINT ESTABLISHES THE WORKING POINT (WP) FOR EACH PIER.
 5. SEE CIVIL PLANS FOR GUIDEWAY ALIGNMENT, CIVIL IMPROVEMENTS & UTILITY RELOCATION INFORMATION.



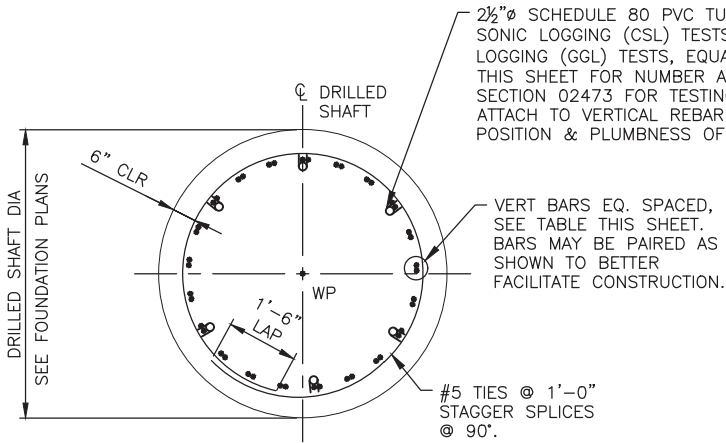
STAGE 2 — B02 DESIGN SUBMISSION GUIDEWAY ELEVATED ALIGNMENT FOUNDATION PLAN STA 11+83.43 TO STA 16+50.00	Designed by: MH/JMM	PHX DVT BYR CITY OF PHOENIX AVIATION DEPARTMENT PHX SKY TRAIN STAGE 2 DESIGN 500 S. 24TH STREET PHOENIX, AZ 85034		PER CITY OF PHOENIX ORDINANCE G-4396, THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF YOUR CONTRACT WITH THE CITY OF PHOENIX.	Design Sub-Consultant	Design Consultant	 Gannett Fleming
	Drawn by: JRR						
	Checked by: SWS						
	Date: 03/02/2018						
	Dwg scale: 1"=20'						
	CIP No.: AV/100000011						
KIVA No.: 07-5204	NO.	REVISIONS / SUBMISSIONS	DATE				
			ISSUED FOR CONSTRUCTION SUBMITTED FOR REVIEW	03/02/18 12/15/17			

PLOT DATE: Feb 28, 2018 FILE PATH: C:\pwworking\gfpw01\jrojas\0673541\AV10000011-S-2-GWSG0522.dwg jrojas

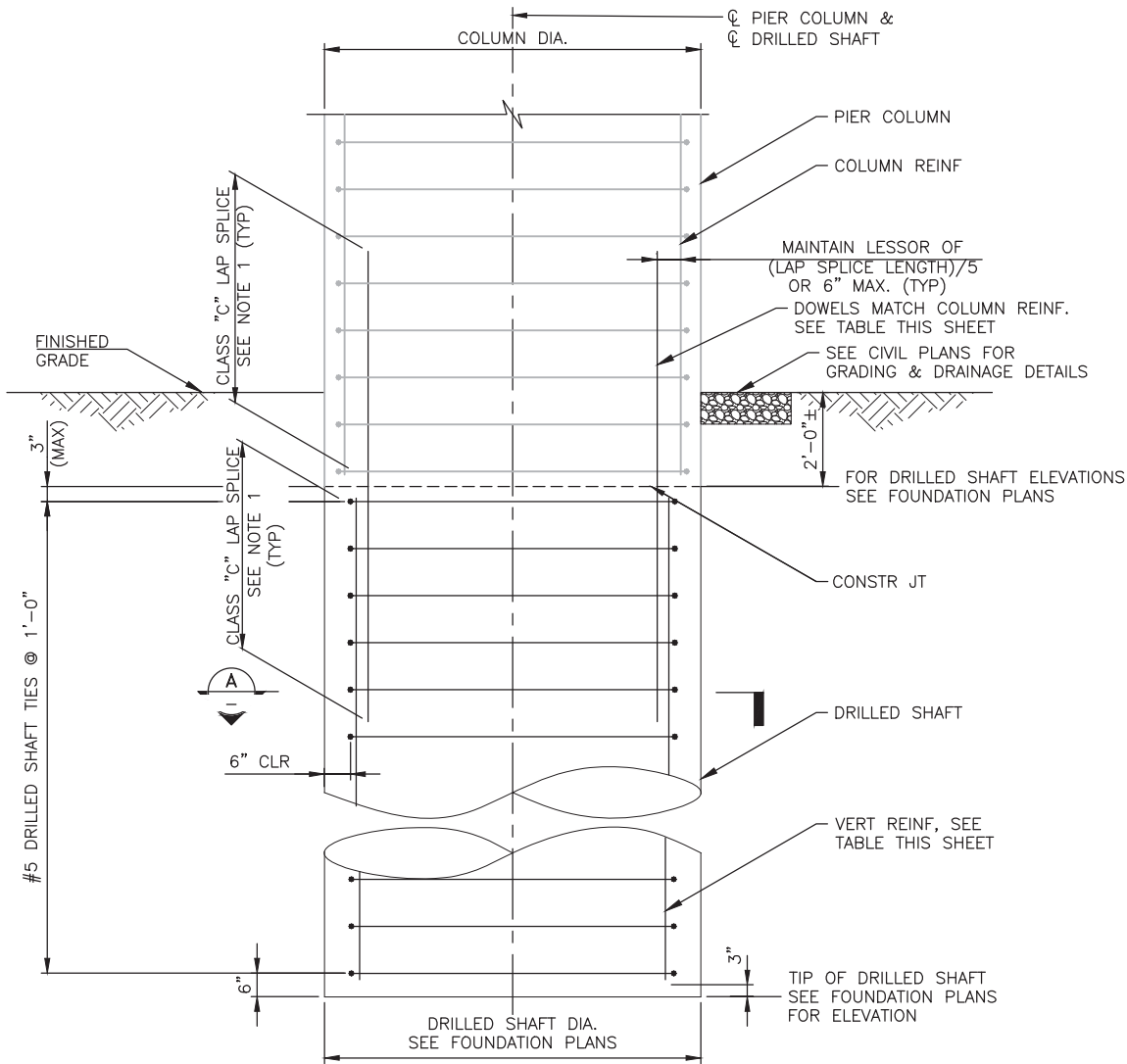


1 DRILLED SHAFT AND COLUMN REINFORCEMENT – UNEQUAL DIAMETERS
SCALE: 1/2" = 1'-0"

FOUNDATION/SUBSTRUCTURE REINFORCING TABLE					
PIER NUMBER	DRILLED SHAFT DIA (IN)	DRILLED SHAFT VERTICAL REBAR	COLUMN DIA. (IN)	COLUMN VERTICAL REBAR	NO. OF PVC TEST TUBES
1-6, 24-38, 74, 75	72	27-#11	60	20-#11	6
7	96	47-#11	84	56-#11	8
8	96	47-#11	84	48-#11	8
9, 68-72	96	47-#11	84	42-#11	8
10	96	47-#11	84	36-#11	8
11, 12 14-21, 40-44	84	36-#11	72	27-#11	7
13, 39	84	36-#11	72	36-#11	7
22	72	27-#11	60	24-#11	6
23	72	27-#11	60	32-#11	6
45, 46, 49-58, 60-62, 64, 65	84	36-#11	84	36-#11	7
47, 48, 59, 63, 66, 67,73	96	48-#11	96	48-#11	8
ABUT 1, 4	48	12-#11	-	-	4
ABUT 2, 3	48	2X9-#11	-	-	4



A TYPICAL DRILLED SHAFT SECTION
SCALE: 1/2" = 1'-0"



2 DRILLED SHAFT AND COLUMN REINFORCEMENT – EQUAL DIAMETERS
SCALE: 1/2" = 1'-0"

NOTES:

- CLASS C LAP SPlice LENGTH SHALL BE PER BAR SPlice TABLE ON SHEET GWSG0005. ALTERNATELY, CLASS B LAP SPlice MAY BE USED IF ALTERNATE BARS ARE STAGGERED BY FULL LAP SPlice LENGTH.
- DIAMETER OF REINFORCED CONCRETE DRILLED SHAFTS AND COLUMNS SHALL BE AS SHOWN ON FOUNDATION PLANS, "FOUNDATION/SUBSTRUCTURE REINFORCING TABLE".
- LAP SPlice SHOWN AT TOP OF SHAFT MAY BE ELIMINATED IF DESIRED BY EXTENDING THE VERTICAL DRILLED SHAFT REINFORCEMENT ABOVE THE TOP OF SHAFT BY THE REQUIRED AMOUNT OF COLUMN LAP SPlice INDICATED.
- DRILLED SHAFTS IN VICINITY OF THE FUTURE WEST TERMINAL AND RELOCATED WB SKY HARBOR BLVD., AS DENOTED WITH DOUBLE ASTERISK (**) IN THE DRILLED SHAFT FOUNDATION SCHEDULES SHALL USE SMOOTH SURFACE PERMANENT STEEL CASING AT THE TOP 30 FT OF SHAFT TO ACCOUNT FOR FUTURE EXCAVATION AROUND THESE SHAFTS FOR THE TERMINAL CONSTRUCTION.



Design Sub-Consultant

Design Consultant



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CITY OF PHOENIX.

PHX DOT BYA
CITY OF PHOENIX AVIATION DEPARTMENT

**PHX SKY TRAIN
STAGE 2 DESIGN
500 S. 24TH STREET
PHOENIX, AZ 85034**

Designed by: MH/MM

Drawn by: BAM

Checked by: SWS

Date: 03/02/2018

Dwg scale: AS SHOWN

CIP No.: AV10000011

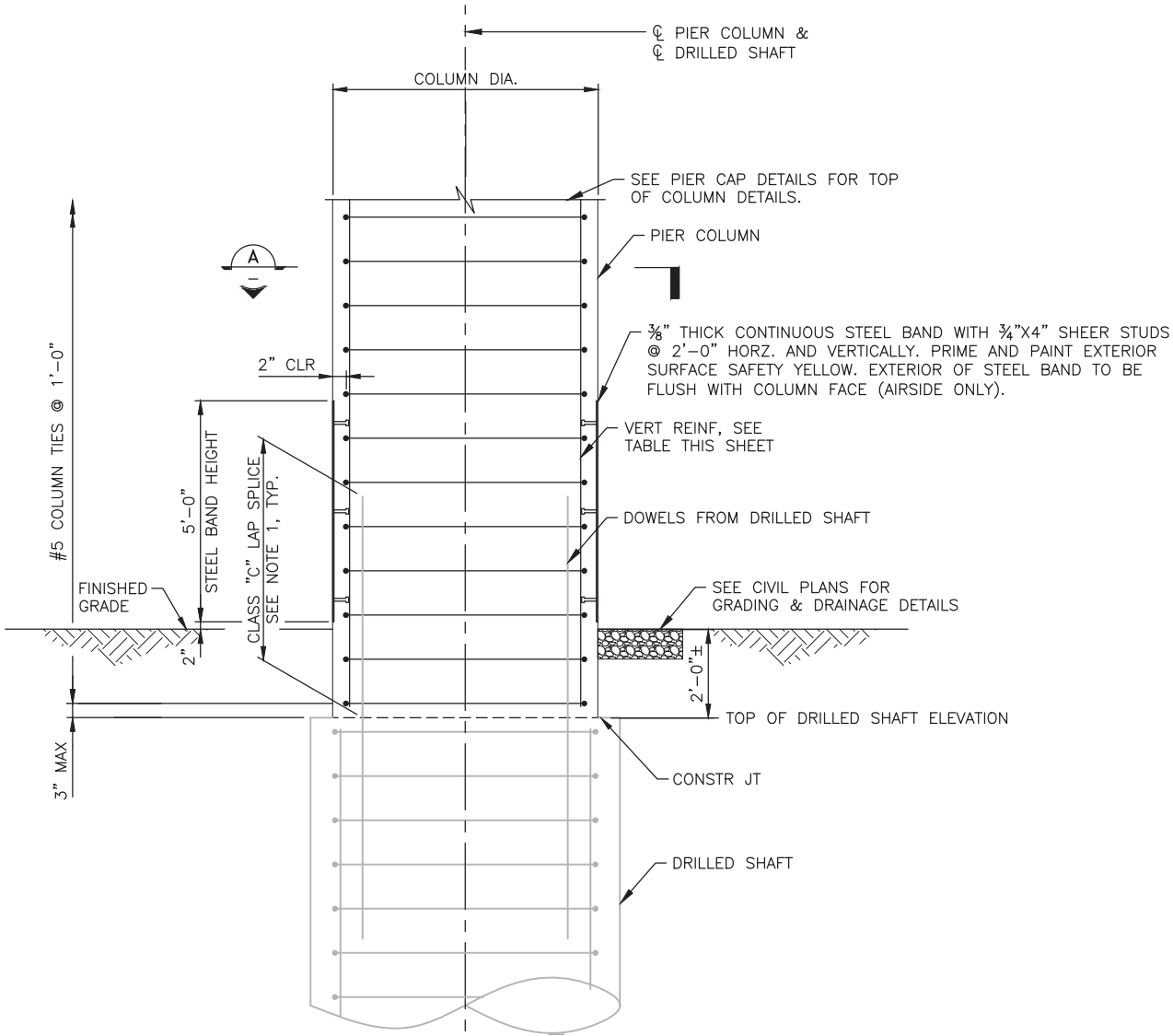
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STAGE 2 – B02 DESIGN SUBMISSION

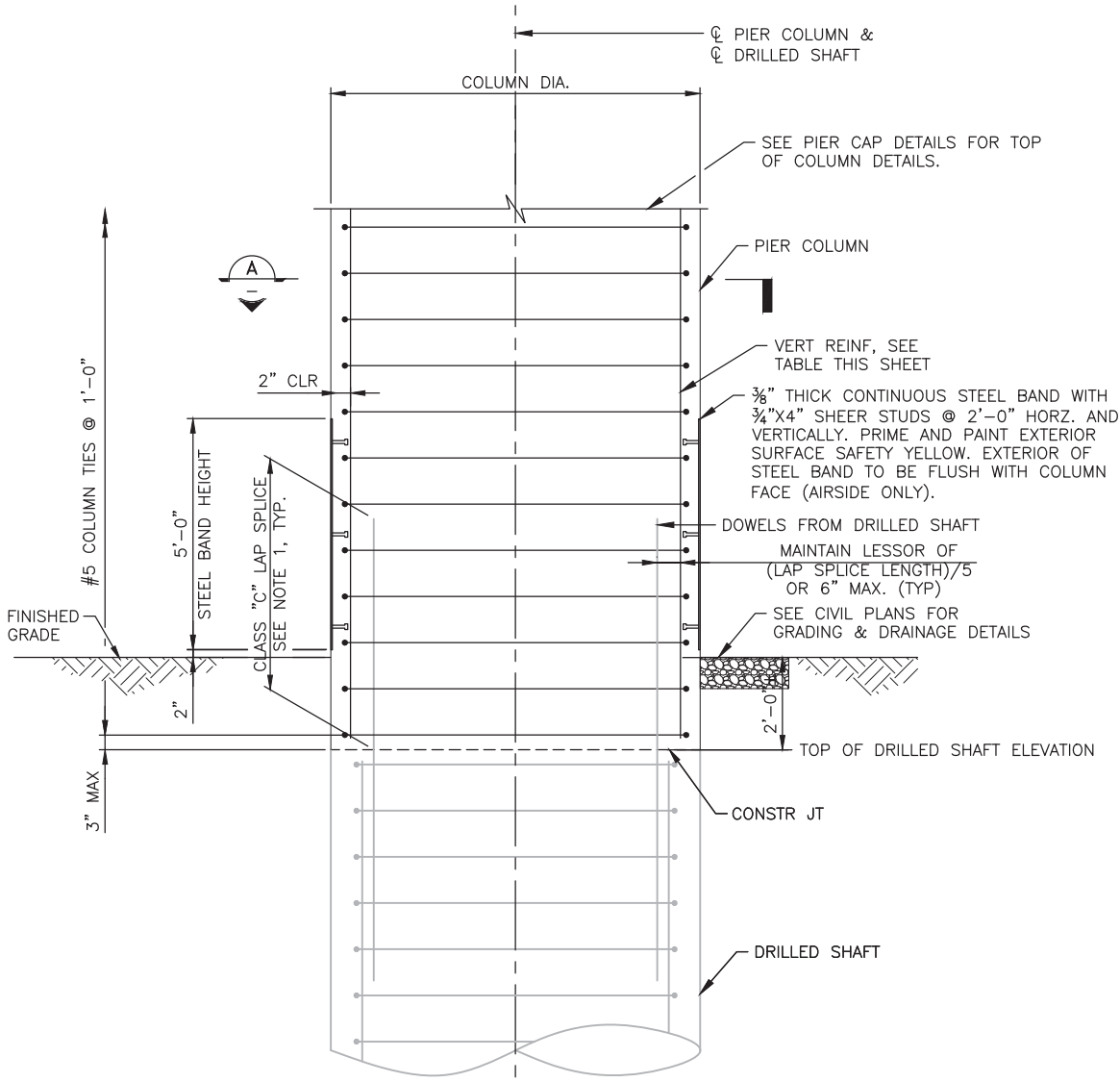
**GUIDEWAY
ELEVATED ALIGNMENT
DRILLED SHAFT DETAILS**

Package: Sheet Reference No:
B02-GWSG0522
V1 - 060 of 083

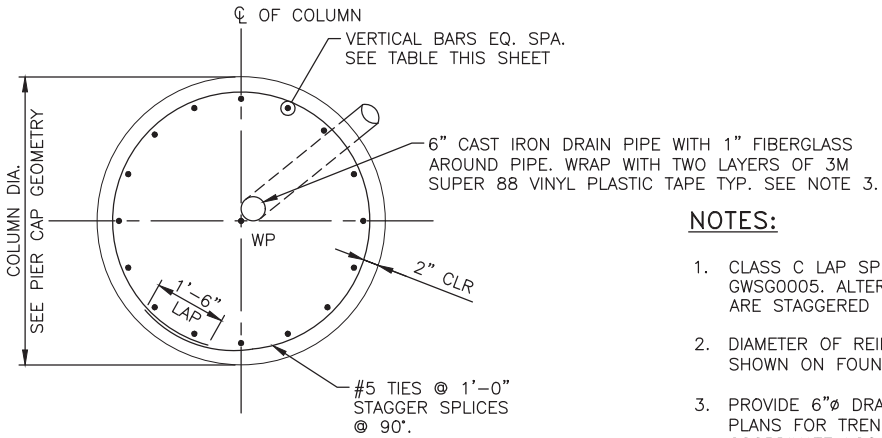
SUBSTRUCTURE REINFORCING TABLE		
PIER NUMBER	COLUMN DIA. (IN)	COLUMN VERTICAL REBAR
1-6, 24-38, 74, 75	60	20-#11
7	84	56-#11
8	84	48-#11
9, 68-72	84	42-#11
10	84	36-#11
11, 12 14-21, 40-44	72	27-#11
13, 39	72	36-#11
22	60	24-#11
23	60	32-#11
45, 46, 49-58, 60-62, 64, 65	84	36-#11
47, 48, 59, 63, 66, 67,73	96	48-#11



1 COLUMN REINFORCEMENT- UNEQUAL DIAMETERS
SCALE: 1/2" = 1'-0"



2 COLUMN REINFORCEMENT- EQUAL DIAMETERS
SCALE: 1/2" = 1'-0"



A TYPICAL COLUMN SECTION
SCALE: 1/2" = 1'-0"

NOTES:

- CLASS C LAP SPLICE LENGTH SHALL BE PER BAR SPLICE TABLE ON SHEET GWSG0005. ALTERNATELY, CLASS B LAP SPLICE MAY BE USED IF ALTERNATE BARS ARE STAGGERED BY FULL LAP SPLICE LENGTH.
- DIAMETER OF REINFORCED CONCRETE DRILLED SHAFTS AND COLUMNS SHALL BE AS SHOWN ON FOUNDATION PLANS, "FOUNDATION AND SUBSTRUCTURE SCHEDULE".
- PROVIDE 6"Ø DRAIN PIPES AS INDICATED ON PIER CAP GEOMETRY SHEETS. SEE CIVIL PLANS FOR TRENCH DRAIN AND DRAIN PIPE OUTFALL DETAILS. CONTRACTOR SHALL COORDINATE LOCATION OF DRAIN PIPE INSIDE THE COLUMN TO ACCEPT DRAIN PIPES FROM SUPERSTRUCTURE. VERTICAL PORTION OF DRAIN PIPE IN COLUMN SHALL BE 6" MIN CLEAR OF COLUMN LONGITUDINAL REINFORCEMENT.

FOR
REFERENCE
ONLY

STAGE 2 - B02 DESIGN SUBMISSION

GUIDEWAY
ELEVATED ALIGNMENT
COLUMN DETAILS

Package: Sheet Reference No:
B02-GWSG0801
V1 - 061 of 083

PHX **AVT BYA**
CITY OF PHOENIX AVIATION DEPARTMENT

PHX SKY TRAIN
STAGE 2 DESIGN
500 S. 24TH STREET
PHOENIX, AZ 85034

Designed by: MH/MM

Drawn by: BAM

Checked by: SWS

Date: 03/02/2018

Dwg scale: 1/2" = 1'-0"

CIP No.: AV10000011

KIVA No.: 07-5204

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CITY OF PHOENIX.

PRELIMINARY
NOT FOR
CONSTRUCTION
OR RECORDING

Design Sub-Consultant

Design Consultant

Gannett Fleming

NO.	REVISIONS / SUBMISSIONS	DATE
		12/15/17